

GORDIAN[®]

Job Order Contract Construction Task Catalog[®]

CSI Division 01-26 November 2023

County of San Mateo

Roofing



This Page Intentionally Left Blank

00 Using The Construction Task Catalog®	1
<hr/>	
01 General Requirements	1
01 20 Price and Payment Procedures.....	1
01 22 Unit Prices.....	1
01 30 Administrative Requirements.....	35
01 31 Project Management and Coordination.....	35
01 35 Special Procedures.....	36
01 40 Quality Requirements.....	36
01 41 Regulatory Requirements.....	36
01 42 References.....	36
01 45 Quality Control.....	36
01 50 Temporary Facilities and Controls.....	39
01 51 Temporary Utilities.....	39
01 52 Construction Facilities.....	40
01 53 Temporary Construction.....	42
01 54 Construction Aids.....	42
01 55 Vehicular Access and Parking.....	44
01 56 Temporary Barriers and Enclosures.....	47
01 57 Temporary Controls.....	55
01 58 Project Identification.....	56
01 60 Product Requirements.....	56
01 66 Product Storage and Handling Requirements.....	56
01 70 Execution and Closeout Requirements.....	57
01 71 Examination and Preparation.....	57
01 74 Cleaning and Waste Management.....	61
<hr/>	
02 Existing Conditions	1
02 20 Assessment.....	1
02 25 Existing Material Assessment.....	1
02 30 Subsurface Investigation.....	1
02 32 Geotechnical Investigations.....	1
02 40 Demolition and Structure Moving.....	2
02 41 Demolition.....	2
02 42 Removal and Salvage of Construction Materials.....	20
02 43 Structure Moving.....	20
02 60 Contaminated Site Material Removal.....	21
02 61 Removal and Disposal of Contaminated Soils.....	21
02 80 Facility Remediation.....	21
02 81 Transportation and Disposal of Hazardous Materials.....	21
02 82 Asbestos Remediation.....	21
02 83 Lead Remediation.....	29
02 84 Polychlorinated Biphenyl Remediation.....	33
02 87 Bio-Hazard Material Remediation.....	34
02 89 Hazmat Ancillary Tasks and Support.....	42
02 90 Disaster Recovery.....	43
02 90 50 Cleaning and Disaster Clean-up.....	43
02 90 55 Emergency Clean-up.....	47
<hr/>	
03 Concrete	1
03 01 Maintenance of Concrete.....	1
03 01 30 Maintenance of Cast-In-Place Concrete.....	1
03 05 Common Work Results For Concrete.....	3
03 05 13 Concrete Admixtures.....	3
03 10 Concrete Forming and Accessories.....	3
03 11 Concrete Forming.....	3
03 15 Concrete Accessories.....	7
03 20 Concrete Reinforcing.....	16
03 21 Reinforcement Bars.....	16
03 22 Fabric and Grid Reinforcing.....	45
03 30 Cast-In-Place Concrete.....	46
03 30 53 Miscellaneous Cast-in-Place Concrete.....	46
03 31 Structural Concrete.....	47

Table of Contents

03 35 Concrete Finishing	63
03 37 Specialty Placed Concrete	66
03 39 Concrete Curing	67
03 50 Cast Decks and Underlayment	68
03 51 Cast Roof Decks	68
03 53 Concrete Topping	68
03 54 Cast Underlayment	68
03 60 Grouting	69
03 61 Cementitious Grouting	69
03 62 Non-Shrink Grouting	69
03 64 Injection Grouting	70

05 Metals 1

05 05 Common Work Results for Metals	1
05 05 19 Post-Installed Concrete Anchors	1
05 05 21 Fastening Methods for Metal	12
05 05 23 Metal Fastenings	13
05 10 Structural Metal Framing	78
05 12 Structural Steel Framing	78
05 13 Structural Stainless-Steel Framing	139
05 14 Structural Aluminum Framing	139
05 15 Wire Rope Assemblies	140
05 20 Metal Joists	146
05 21 Steel Joist Framing	146
05 30 Metal Decking	147
05 31 Steel Decking	147
05 36 Composite Metal Decking	151
05 40 Cold-Formed Metal Framing	154
05 41 Structural Metal Stud Framing	154
05 42 Cold-Formed Metal Joist Framing	155
05 43 Slotted Channel Framing	156
05 45 Metal Support Assemblies	157
05 50 Metal Fabrications	158
05 51 Metal Stairs	158
05 52 Metal Railings	159
05 53 Metal Gratings	168
05 54 Metal Floor Plates	176
05 55 Metal Stair Treads and Nosings	176
05 56 Metal Castings	178
05 58 Formed Metal Fabrications	178
05 59 Metal Specialties	179

06 Wood, Plastics, and Composites 1

06 01 Maintenance of Wood, Plastics, and Composites	1
06 01 20 Maintenance of Finish Carpentry	1
06 05 Common Work Results for Wood, Plastics, and Composites	1
06 05 23 Wood, Plastic, and Composite Fastenings	1
06 05 73 Wood Treatment	23
06 10 Rough Carpentry	24
06 11 Wood Framing	24
06 15 Wood Decking	29
06 16 Sheathing	32

07 Thermal And Moisture Protection 1

07 01 Operation and Maintenance of Thermal and Moisture Protection	1
07 01 50 Maintenance of Membrane Roofing	1
07 05 Common Work Results for Thermal and Moisture Protection	1
07 05 13 Mobilization Of Crew For Small Quantity Of Roof Work	1
07 10 Dampproofing and Waterproofing	1
07 11 Dampproofing	2
07 13 Sheet Waterproofing	2
07 14 Fluid-Applied Waterproofing	3
07 16 Cementitious and Reactive Waterproofing	4
07 17 Bentonite Waterproofing	4
07 19 Water Repellents	4
07 20 Thermal Protection	5

07 21 Thermal Insulation	5
07 22 Roof and Deck Insulation.....	17
07 24 Exterior Insulation and Finish Systems.....	44
07 25 Weather Barriers	47
07 26 Vapor Retarders.....	47
07 27 Air Barriers.....	47
07 30 Steep Slope Roofing	47
07 31 Shingles and Shakes	47
07 32 Roof Tiles.....	52
07 34 Roofing Underlayment	54
07 40 Roofing and Siding Panels.....	55
07 41 Roof Panels	56
07 42 Wall Panels.....	59
07 46 Siding.....	60
07 50 Membrane Roofing.....	64
07 51 Built-Up Bituminous Roofing.....	64
07 52 Modified Bituminous Membrane Roofing.....	72
07 53 Elastomeric Membrane Roofing	82
07 54 Thermoplastic Membrane Roofing.....	86
07 56 Fluid-Applied Roofing	90
07 57 Coated Foamed Roofing.....	91
07 58 Roll Roofing	93
07 59 Membrane Roofing Termination Bar.....	93
07 60 Flashing and Sheet Metal.....	93
07 61 Sheet Metal Roofing	93
07 62 Sheet Metal Flashing and Trim.....	96
07 63 Sheet Metal Roofing Specialties	101
07 65 Flexible Flashing.....	102
07 70 Roof and Wall Specialties and Accessories	102
07 71 Roof Specialties.....	102
07 72 Roof Accessories.....	130
07 73 Roof Protection Board.....	155
07 76 Roof Pavers	156
07 80 Fire and Smoke Protection.....	157
07 81 Applied Fireproofing.....	157
07 84 Firestopping	158
07 90 Joint Protection.....	164
07 91 Preformed Joint Seals.....	164
07 92 Joint Sealants	166
07 95 Expansion Control.....	170

08 Openings 1

08 01 Operation and Maintenance of Openings.....	1
08 01 10 Operation and Maintenance of Doors and Frames.....	1
08 01 50 Operation and Maintenance of Windows.....	1
08 01 80 Maintenance of Glazing.....	1
08 05 Common Work Results for Openings.....	1
08 05 13 Door Options and Modifications.....	1
08 30 Specialty Doors and Frames	3
08 31 Access Doors and Panels.....	3
08 60 Roof Windows and Skylights.....	4
08 62 Unit Skylights	4
08 63 Metal-Framed Skylights.....	9
08 66 Wood-Framed Skylights.....	14
08 90 Louvers and Vents	15
08 91 Louvers	15
08 95 Vents.....	47

22 Plumbing 1

22 01 Operation and Maintenance of Plumbing.....	1
22 01 10 Operation and Maintenance of Plumbing Piping and Pumps.....	1
22 01 40 Operation and Maintenance of Plumbing Fixtures.....	1
22 05 Common Work Results for Plumbing	2
22 05 13 Common Motor Requirements for Plumbing Equipment	2
22 05 19 Meters and Gages for Plumbing Piping	2
22 05 23 General-Duty Valves for Plumbing Piping	2
22 05 29 Hangers and Supports for Plumbing Piping and Equipment	6

Table of Contents

22 05 48 Vibration and Seismic Controls for Plumbing Piping and Equipment.....	6
22 05 53 Identification for Plumbing Piping and Equipment.....	6
22 05 76 Facility Drainage Piping Cleanouts	6
22 07 Plumbing Insulation.....	9
22 07 16 Plumbing Equipment Insulation.....	9
22 07 19 Plumbing Piping Insulation	9
22 10 Plumbing Piping	41
22 11 Facility Water Distribution.....	41
22 12 Facility Potable-Water Storage Tanks.....	102
22 13 Facility Sanitary Sewerage.....	104
22 14 Facility Storm Drainage	152
22 15 General Service Compressed-Air Systems.....	161
22 30 Plumbing Equipment.....	165
22 31 Domestic Water Softeners	165
22 32 Domestic Water Filtration Equipment.....	166
22 33 Electric Domestic Water Heaters	168
22 34 Fuel-Fired Domestic Water Heaters.....	170
22 35 Domestic Water Heat Exchangers	174

23 Heating, Ventilating, and Air-Conditioning (HVAC) 1

23 01 Operation and Maintenance of HVAC Systems.....	1
23 01 10 Operation and Maintenance of Facility Fuel Systems	1
23 01 20 Operation and Maintenance of HVAC Piping and Pumps.....	1
23 01 30 Operation and Maintenance of HVAC Air Distribution.....	4
23 01 50 Operation and Maintenance of Central Heating Equipment.....	4
23 01 60 Operation and Maintenance of Central Cooling Equipment.....	5
23 05 Common Work Results for HVAC.....	6
23 05 13 Common Motor Requirements for HVAC Equipment.....	6
23 05 16 Expansion Fittings and Loops for HVAC Piping	9
23 05 17 Sleeves and Sleeve Seals for HVAC Piping	10
23 05 19 Meters and Gages for HVAC Piping.....	10
23 05 23 General-Duty Valves For HVAC Piping.....	14
23 05 29 Hangers and Supports for HVAC Piping and Equipment.....	38
23 05 48 Vibration and Seismic Controls for HVAC	66
23 05 53 Identification for HVAC Piping and Equipment.....	71
23 05 93 Testing, Adjusting, and Balancing for HVAC.....	71
23 07 HVAC Insulation.....	74
23 07 13 Duct Insulation.....	74
23 07 16 HVAC Equipment Insulation	75
23 07 19 HVAC Piping Insulation	75
23 20 HVAC Piping and Pumps.....	79
23 21 Hydronic Piping and Pumps	79
23 22 Steam and Condensate Piping and Pumps	168
23 23 Refrigerant Piping.....	173
23 25 HVAC Water Treatment	178

26 Electrical 1

26 01 Operation and Maintenance of Electrical Systems.....	1
26 01 10 Operation and Maintenance of Medium-Voltage Electrical Distribution	1
26 01 20 Operation and Maintenance of Low-Voltage Electrical Distribution	2
26 01 30 Operation and Maintenance of Facility Electrical Power Generating and Storing Equipment	2
26 01 50 Operation and Maintenance of Lighting	2
26 05 Common Work Results for Electrical	19
26 05 13 Medium-Voltage Cables	19
26 05 19 Low-Voltage Electrical Power Conductors and Cables	24
26 05 23 Control-Voltage Electrical Power Cables	40
26 05 26 Grounding and Bonding for Electrical Systems.....	41
26 20 Low-Voltage Electrical Distribution	45
26 24 Switchboards and Panelboards.....	45
26 25 Enclosed Bus Assemblies	90
26 27 Low-Voltage Distribution Equipment	93
26 28 Low-Voltage Circuit Protective Devices	111
26 29 Low-Voltage Controllers	140

CTC Information:

- ☑ This Construction Task Catalog® was developed and customized by The Gordian Group, Inc. specifically for **County of San Mateo**, priced locally using current labor, material and equipment costs, and published in November 2023.
- ☑ The Gordian Group, Inc. licenses the use of this CTC and other proprietary information and software for the sole purpose of providing Job Order Contracting services to **County of San Mateo**. Use of The Gordian Group's CTC and other proprietary information and software for any other purpose or any other entity is expressly prohibited without the express written consent of The Gordian Group, Inc.

MasterFormat™

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



MasterFormat® is produced jointly by CSI and Construction Specifications Canada (CSC). U.S. copyright is held by CSI and Canadian copyright by CSC. All Rights Reserved. For license information, contact CSI at csi@csinet.org. For more information on MasterFormat visit www.MasterFormat.com

The Unit Prices Include:

LABOR COSTS:

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

November 2023

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

EQUIPMENT COSTS:

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

MATERIAL COSTS:

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

Complete and In-Place Construction:

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

copyright © 2023 The Gordian Group, Inc.

Using The Construction Task Catalog®

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

Demolition:

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

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

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

The Adjustment Factors Include:

BUSINESS COSTS:

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

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

CONSTRUCTION RELATED COSTS:

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

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

PRICE VARIATIONS:

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

GENERAL COSTS:

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

Using The Construction Task Catalog®

Published Unit Price	X	Installation (or Demolition) Quantity	X	Appropriate Adjustment Factor
-------------------------	---	---	---	-------------------------------------

- ☑ No additional payments of any kind whatsoever will be made. All costs not included in the unit prices must be part of the Adjustment Factors.

General Interpretations:

WORKING HEIGHT:

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

FIELD ENGINEERING:

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

ASSEMBLIES:

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

TESTING:

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

MISCELLANEOUS:

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

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

SPECIFICATIONS:

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

Useful Information:

UNIT OF MEASURE DEFINITIONS:

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

November 2023

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

MATERIAL WEIGHTS:

EARTHEN MATERIAL

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

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

copyright © 2023 The Gordian Group, Inc.

Using The Construction Task Catalog®

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

1 Ton = 2000 Pounds = 907.185 Kilograms

1 Yard = 3 Feet = 0.9144 Meters

BULK FACTORS FOR DEMOLITION:

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

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

CONVERSIONS:

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

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

1 Centimeter = 0.3937 Inches = 0.0328 Feet

1 Cubic Foot = 0.03704 Cubic Yards = 0.02832 Cubic Meters

1 Cubic Meter = 1.3080 Cubic Yards = 35.3147 Cubic Feet

1 Cubic Yard = 27 Cubic Feet = 0.7646 Cubic Meters

1 Foot = 12 Inches = 0.3048 Meters

1 Inch = 2.54 Centimeters = 0.0254 Meters

1 Kilogram = 2.2046 Pounds

1 Kilometer = 0.6214 Miles = 3280 Feet

1 Meter = 100 Centimeters = 3.2808 Feet

1 Mile = 5280 Feet = 1.6093 Kilometers

1 Pound = 0.4536 Kilograms

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

1 Square Meter = 1.1960 Square Yards = 10.7639 Square Feet

1 Square Yard = 9 Square Feet = 0.8361 Square Meters

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

STANDARD GEOMETRY:

Circle

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

Cylinder

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

Sphere

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

$\pi = 3.14159$

United Inch

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

TRADEMARKS

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

THIS PAGE INTENTIONALLY LEFT BLANK



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
------------------------------	---------------------------	-------------------------

01 General Requirements

01 20 Price and Payment Procedures ⁽⁰¹⁾

01 22 Unit Prices ^(01 20)

Note: Provide digital copies of photographs.

01 22 16 Unit Price Payment ^(01 22)

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

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

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

01 22 16 00-0003 Negotiated Travel Costs ^(01 22 16)

Note: To be used only at the request of authorized personal for non-commuting travel costs.

01 22 16 00-0004	EA	Negotiated Travel Costs.....	1.00
		Note: Supporting documentation must be included with each Work Order.	

01 22 20 Wage Rates ^(01 22)

01 22 20 00-0001 Local Labor/Wage Rates ^(01 22 20)

Note: Welders receive the rate prescribed for the craft performing the operation to which the welding is incidental.

01 22 20 00-0002	HR	Asbestos Removal Worker.....	86.30
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	
		For Foreperson, Add	4.32
		For Apprentice, Deduct	-17.26
01 22 20 00-0003	HR	Insulator.....	144.31
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	
		For Foreperson, Add	7.22
		For Apprentice, Deduct	-28.86
01 22 20 00-0004	HR	Boilermaker.....	107.64
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	
		For Foreperson, Add	5.38
		For Apprentice, Deduct	-21.53
01 22 20 00-0005	HR	Brick Layer.....	109.05
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	
		For Foreperson, Add	5.45
		For Apprentice, Deduct	-21.81
01 22 20 00-0006	HR	Carpenter.....	125.77
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	
		For Foreperson, Add	6.29
		For Apprentice, Deduct	-25.15
01 22 20 00-0007	HR	Carpet, Linoleum.....	121.84
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	
		For Foreperson, Add	6.09
		For Apprentice, Deduct	-24.37
01 22 20 00-0008	HR	Cement Mason.....	90.34
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	
		For Foreperson, Add	4.52
		For Apprentice, Deduct	-18.07
01 22 20 00-0009	HR	Drywall Finisher.....	121.06
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	
		For Foreperson, Add	6.05
		For Apprentice, Deduct	-24.21
01 22 20 00-0010	HR	Electrician.....	153.05
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	
		For Foreperson, Add	7.65
		For Apprentice, Deduct	-30.61
01 22 20 00-0011	HR	Equipment Operator, Crane (Group 1-A).....	117.37
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	
01 22 20 00-0012	HR	Equipment Operator, Crane (Group 2-A).....	115.00
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	
		For Foreperson, Add	5.75
01 22 20 00-0013	HR	Equipment Operator, Crane (Group 3-A).....	109.07
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	
01 22 20 00-0014	HR	Equipment Operator, Medium (Group 3).....	112.17
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	
		For Foreperson, Add	5.61
		For Apprentice, Deduct	-22.43
01 22 20 00-0015	HR	Equipment Operator, Medium (Group 4).....	110.31
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	
01 22 20 00-0016	HR	Equipment Operator, Medium (Group 5).....	108.61
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	

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



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 20 00-0017 HR Equipment Operator, Light (Group 6)	106.83	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreperson, Add	5.34	
For Apprentice, Deduct	-21.37	
01 22 20 00-0018 HR Equipment Operator, Light (Group 7)	105.30	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0019 HR Equipment Operator, Light (Group 8)	103.78	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0020 HR Glazier	115.78	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreperson, Add	5.79	
For Apprentice, Deduct	-23.16	
01 22 20 00-0021 HR Laborer	83.76	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0022 HR Lather.....	118.17	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreperson, Add	5.91	
For Apprentice, Deduct	-23.63	
01 22 20 00-0023 HR Marble Setter	118.17	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreperson, Add	5.91	
For Apprentice, Deduct	-23.63	
01 22 20 00-0024 HR Millwright.....	117.70	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreperson, Add	5.89	
For Apprentice, Deduct	-23.54	
01 22 20 00-0025 HR Mold Removal Worker	87.79	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreperson, Add	4.39	
For Apprentice, Deduct	-17.56	
01 22 20 00-0026 HR Painter, Ordinary.....	97.52	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreperson, Add	4.88	
For Apprentice, Deduct	-19.50	
01 22 20 00-0027 HR Painter, Structural Steel.....	100.90	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreperson, Add	5.05	
For Apprentice, Deduct	-20.18	
01 22 20 00-0028 HR Paperhanger.....	97.52	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreperson, Add	4.88	
For Apprentice, Deduct	-19.50	
01 22 20 00-0029 HR Pile Drivers	127.20	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreperson, Add	6.36	
For Apprentice, Deduct	-25.44	
01 22 20 00-0030 HR Plasterer	109.55	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreperson, Add	5.48	
For Apprentice, Deduct	-21.91	
01 22 20 00-0031 HR Plumber	151.74	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreperson, Add	7.59	
For Apprentice, Deduct	-30.35	
01 22 20 00-0032 HR Powderman.....	88.15	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreperson, Add	4.41	
For Apprentice, Deduct	-17.63	
01 22 20 00-0033 HR Rodman (Reinforcing)/Ornamental Steel Worker	107.91	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreperson, Add	5.40	
For Apprentice, Deduct	-21.58	
01 22 20 00-0034 HR Roofer, Composite.....	116.37	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreperson, Add	5.82	
For Apprentice, Deduct	-23.27	
01 22 20 00-0035 HR Roofer, Metal	128.00	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreperson, Add	6.40	
For Apprentice, Deduct	-25.60	
01 22 20 00-0036 HR Roofer, Tile/Slate	112.76	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreperson, Add	5.64	
For Apprentice, Deduct	-22.55	
01 22 20 00-0037 HR Sheet Metal Worker	152.29	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreperson, Add	7.61	
For Apprentice, Deduct	-30.46	
01 22 20 00-0038 HR Sprinkler Installer	142.06	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreperson, Add	7.10	
For Apprentice, Deduct	-28.41	
01 22 20 00-0039 HR Steam / Pipe Fitter	151.74	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreperson, Add	7.59	
For Apprentice, Deduct	-30.35	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 20 00-0040 HR Stone Mason.....	109.05	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreperson, Add	5.45	
For Apprentice, Deduct	-21.81	
01 22 20 00-0041 HR Iron Worker (Structural)	111.60	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreperson, Add	5.58	
For Apprentice, Deduct	-22.32	
01 22 20 00-0042 HR Tile Layer	100.90	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreperson, Add	5.05	
For Apprentice, Deduct	-20.18	
01 22 20 00-0043 HR Terrazzo Worker.....	110.24	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreperson, Add	5.51	
For Apprentice, Deduct	-22.05	
01 22 20 00-0044 HR Truck Driver, Light (Group 1).....	90.04	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreperson, Add	4.50	
For Apprentice, Deduct	-18.01	
01 22 20 00-0045 HR Truck Driver, Medium (Group 2).....	90.47	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0046 HR Truck Driver, Heavy (Group 3).....	90.90	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreperson, Add	4.55	
For Apprentice, Deduct	-18.18	
01 22 20 00-0047 HR Truck Driver, Heavy (Group 4).....	91.40	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0048 HR Class I Diver	209.51	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0049 HR Class III Diver Tender	138.83	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0050 HR D1 Certified Welder	118.96	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0051 Rates For Services (01 22 20)		
01 22 20 00-0052 HR Watch/Guard Person, Unarmed.....	35.33	
01 22 20 00-0053 HR Watch/Guard Person, Armed.....	44.36	
01 22 20 00-0054 HR Surveyor (Rod Person).....	109.63	
01 22 20 00-0055 HR Senior Surveyor (Party Chief).....	120.74	
01 22 20 00-0056 HR Surveyor (Instrument person).....	114.01	
01 22 20 00-0057 HR On-Site Certified Materials Testing Technician.....	82.92	
01 22 20 00-0058 HR Certified Industrial Hygienist.....	133.60	
01 22 20 00-0059 MI Mileage For Professional Services (Engineering, Surveying, Etcetera).....	0.66	
Note: For use only when the Owner directs the contractor to use personnel whose base of operations is more than 100 miles from the site. Quantity shall be miles that exceed 100.		
01 22 20 00-0060 HR Fire Watch Laborer.....	83.76	
Note: Fire watchers shall be required whenever welding or cutting is performed in locations where other than a minor fire might develop, or any of the following conditions exist: (1) Appreciable combustible material, in building construction or contents, closer than 35 feet (10.7 m) to the point of operation. (2) Appreciable combustibles are more than 35 feet (10.7 m) away but are easily ignited by sparks. (3) Wall or floor openings within a 35-foot (10.7 m) radius expose combustible material in adjacent areas including concealed spaces in walls or floors. (4) Combustible materials are adjacent to the opposite side of metal partitions, walls, ceilings, or roofs and are likely to be ignited by conduction or radiation.		
01 22 20 00-0061 Rates For Project Management Services (01 22 20)		
01 22 20 00-0062 HR Project Manager	161.25	
01 22 20 00-0063 Rates For Architectural And Engineering Services (01 22 20)		
Note: For preparation of contract documents, structural and/or design drawings, special investigating requirements or services outside required architectural and engineering services.		
01 22 20 00-0064 HR Principal Architect.....	225.00	
01 22 20 00-0065 HR Senior Architect	200.00	
01 22 20 00-0066 HR Architect.....	150.00	
01 22 20 00-0067 HR Principal Engineer.....	222.50	
01 22 20 00-0068 HR Senior Engineer.....	172.50	
01 22 20 00-0069 HR Engineer	135.00	
01 22 20 00-0070 HR Draft Person.....	80.00	
01 22 20 00-0071 Rates For Traffic Control (01 22 20)		
01 22 20 00-0072 DAY Pilot Vehicle With Driver	1,067.13	
Note: Includes radio, "Follow Me" sign, "Wait For Pilot Car" signs on barricades where required.		
01 22 20 00-0073 HR Flagperson For Traffic Control	83.76	
01 22 20 00-0074 Mobilize Equipment (01 22 20)		
01 22 20 00-0075 HR Escort Vehicle With Driver	96.38	
01 22 20 00-0076 HR Transport Vehicle With Driver.....	139.03	



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

01 22 23 Equipment Usage (01 22)

Note: Includes fuel costs unless otherwise stated. These tasks shall be used for owned, leased or rented equipment. See CSI section 01 22 20 00-0071 for traffic control (where required), 01 71 13 00-0000 for equipment delivery, pickup, mobilization and demobilization.

01 22 23 00-0001 Aerial Equipment (01 22 23)

01 22 23 00-0002 Man Lifts (01 22 23 00-0001)

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

01 22 23 00-0003 Telescoping Boom Man Lifts With Platform (01 22 23 00-0002)

01 22 23 00-0004 Engine Powered, Telescoping Boom Man Lifts With Platform (01 22 23 00-0003)

Note: Diesel or dual fuel (gasoline or liquid propane gas). Two-wheel drive. For use on unpaved or paved surfaces.

01 22 23 00-0005	DAY 40' Engine Powered, Telescoping Boom Man Lift With Platform	489.86
	<i>For Four-Wheel Drive, Add</i>	110.22
01 22 23 00-0006	WK 40' Engine Powered, Telescoping Boom Man Lift With Platform	1,232.56
	<i>For Four-Wheel Drive, Add</i>	277.33
01 22 23 00-0007	MO 40' Engine Powered, Telescoping Boom Man Lift With Platform	2,765.35
	<i>For Four-Wheel Drive, Add</i>	622.20
01 22 23 00-0008	DAY 60' Engine Powered, Telescoping Boom Man Lift With Platform	718.99
	<i>For Four-Wheel Drive, Add</i>	161.77
01 22 23 00-0009	WK 60' Engine Powered, Telescoping Boom Man Lift With Platform	1,714.52
	<i>For Four-Wheel Drive, Add</i>	385.77
01 22 23 00-0010	MO 60' Engine Powered, Telescoping Boom Man Lift With Platform	3,752.98
	<i>For Four-Wheel Drive, Add</i>	844.42
01 22 23 00-0011	DAY 80' Engine Powered, Telescoping Boom Man Lift With Platform	1,398.48
	<i>For Four-Wheel Drive, Add</i>	314.66
01 22 23 00-0012	WK 80' Engine Powered, Telescoping Boom Man Lift With Platform	3,389.53
	<i>For Four-Wheel Drive, Add</i>	762.64
01 22 23 00-0013	MO 80' Engine Powered, Telescoping Boom Man Lift With Platform	7,110.90
	<i>For Four-Wheel Drive, Add</i>	1,599.95
01 22 23 00-0014	DAY 110' Engine Powered, Telescoping Boom Man Lift With Platform	1,991.05
	<i>For Four-Wheel Drive, Add</i>	447.99
01 22 23 00-0015	WK 110' Engine Powered, Telescoping Boom Man Lift With Platform	4,794.33
	<i>For Four-Wheel Drive, Add</i>	1,078.72
01 22 23 00-0016	MO 110' Engine Powered, Telescoping Boom Man Lift With Platform	11,946.31
	<i>For Four-Wheel Drive, Add</i>	2,687.92
01 22 23 00-0017	DAY 120' Engine Powered, Telescoping Boom Man Lift With Platform	2,425.61
	<i>For Four-Wheel Drive, Add</i>	545.76
01 22 23 00-0018	WK 120' Engine Powered, Telescoping Boom Man Lift With Platform	6,186.48
	<i>For Four-Wheel Drive, Add</i>	1,391.96
01 22 23 00-0019	MO 120' Engine Powered, Telescoping Boom Man Lift With Platform	14,063.78
	<i>For Four-Wheel Drive, Add</i>	3,164.35

01 22 23 00-0020 Articulating (Up/Over) Boom Man Lifts With Platform (01 22 23 00-0002)

01 22 23 00-0021 Engine Powered, Articulating (Up/Over) Boom Man Lifts With Platform (01 22 23 00-0020)

Note: Diesel or dual fuel (gasoline or liquid propane gas). Four-wheel drive. For use on unpaved or paved surfaces.

01 22 23 00-0022	DAY 34' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	434.36
01 22 23 00-0023	WK 34' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	1,089.86
01 22 23 00-0024	MO 34' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	2,621.97
01 22 23 00-0025	DAY 45' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	552.82
01 22 23 00-0026	WK 45' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	1,208.32
01 22 23 00-0027	MO 45' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	2,999.47
01 22 23 00-0028	DAY 60' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	710.78
01 22 23 00-0029	WK 60' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	1,642.68
01 22 23 00-0030	MO 60' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	3,672.34
01 22 23 00-0031	DAY 80' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	1,239.91
01 22 23 00-0032	WK 80' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	2,922.08
01 22 23 00-0033	MO 80' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	7,106.17
01 22 23 00-0034	DAY 125' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	2,408.74
01 22 23 00-0035	WK 125' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	5,686.20
01 22 23 00-0036	MO 125' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	13,899.60

01 22 23 00-0037 Electric, Articulating (Up/Over) Boom Man Lifts With Platform (01 22 23 00-0020)

Note: For use on paved surfaces.

01 22 23 00-0038	DAY 30' Electric, Articulating (Up/Over) Boom Man Lift With Platform	434.36
01 22 23 00-0039	WK 30' Electric, Articulating (Up/Over) Boom Man Lift With Platform	1,089.86
01 22 23 00-0040	MO 30' Electric, Articulating (Up/Over) Boom Man Lift With Platform	2,621.97
01 22 23 00-0041	DAY 35' Electric, Articulating (Up/Over) Boom Man Lift With Platform	434.36
01 22 23 00-0042	WK 35' Electric, Articulating (Up/Over) Boom Man Lift With Platform	1,089.86
01 22 23 00-0043	MO 35' Electric, Articulating (Up/Over) Boom Man Lift With Platform	2,621.97
01 22 23 00-0044	DAY 40' Electric, Articulating (Up/Over) Boom Man Lift With Platform	537.03
01 22 23 00-0045	WK 40' Electric, Articulating (Up/Over) Boom Man Lift With Platform	1,160.93
01 22 23 00-0046	MO 40' Electric, Articulating (Up/Over) Boom Man Lift With Platform	2,882.59
01 22 23 00-0047	DAY 45' Electric, Articulating (Up/Over) Boom Man Lift With Platform	537.03
01 22 23 00-0048	WK 45' Electric, Articulating (Up/Over) Boom Man Lift With Platform	1,160.93



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0049 MO 45' Electric, Articulating (Up/Over) Boom Man Lift With Platform	2,882.59	
01 22 23 00-0050 Platform Lifts (01 22 23 00-0001)		
Note: Excludes operator, delivery, set-up, and removal.		
01 22 23 00-0051 Electric, Scissor Platform Lifts (01 22 23 00-0050)		
Note: For use on paved surfaces.		
01 22 23 00-0052 DAY 17' Electric, Scissor Platform Lift	182.64	
01 22 23 00-0053 WK 17' Electric, Scissor Platform Lift	365.29	
01 22 23 00-0054 MO 17' Electric, Scissor Platform Lift	747.18	
01 22 23 00-0055 DAY 20' Electric, Scissor Platform Lift	199.25	
01 22 23 00-0056 WK 20' Electric, Scissor Platform Lift	398.50	
01 22 23 00-0057 MO 20' Electric, Scissor Platform Lift	796.99	
01 22 23 00-0058 DAY 25' Electric, Scissor Platform Lift	257.36	
01 22 23 00-0059 WK 25' Electric, Scissor Platform Lift	514.72	
01 22 23 00-0060 MO 25' Electric, Scissor Platform Lift	1,104.17	
01 22 23 00-0061 DAY 30' Electric, Scissor Platform Lift	332.08	
01 22 23 00-0062 WK 30' Electric, Scissor Platform Lift	655.86	
01 22 23 00-0063 MO 30' Electric, Scissor Platform Lift	1,452.85	
01 22 23 00-0064 DAY 33' Electric, Scissor Platform Lift	356.99	
01 22 23 00-0065 WK 33' Electric, Scissor Platform Lift	697.37	
01 22 23 00-0066 MO 33' Electric, Scissor Platform Lift	1,577.38	
01 22 23 00-0067 DAY 40' Electric, Scissor Platform Lift	464.91	
01 22 23 00-0068 WK 40' Electric, Scissor Platform Lift	1,153.98	
01 22 23 00-0069 MO 40' Electric, Scissor Platform Lift	3,212.87	
01 22 23 00-0070 Engine Powered, Scissor Platform Lifts (01 22 23 00-0050)		
Note: Diesel or dual fuel (gasoline or liquid propane gas). Two-wheel drive. For use on unpaved or paved surfaces.		
01 22 23 00-0071 DAY 25' Engine Powered, Scissor Platform Lift	431.82	
For Four-Wheel Drive, Add	86.36	
01 22 23 00-0072 WK 25' Engine Powered, Scissor Platform Lift	844.45	
For Four-Wheel Drive, Add	168.89	
01 22 23 00-0073 MO 25' Engine Powered, Scissor Platform Lift	2,063.14	
For Four-Wheel Drive, Add	412.63	
01 22 23 00-0074 DAY 33' Engine Powered, Scissor Platform Lift	441.42	
For Four-Wheel Drive, Add	88.28	
01 22 23 00-0075 WK 33' Engine Powered, Scissor Platform Lift	1,007.58	
For Four-Wheel Drive, Add	201.52	
01 22 23 00-0076 MO 33' Engine Powered, Scissor Platform Lift	2,207.08	
For Four-Wheel Drive, Add	441.42	
01 22 23 00-0077 DAY 40' Engine Powered, Scissor Platform Lift	489.40	
For Four-Wheel Drive, Add	97.88	
01 22 23 00-0078 WK 40' Engine Powered, Scissor Platform Lift	1,122.73	
For Four-Wheel Drive, Add	224.55	
01 22 23 00-0079 MO 40' Engine Powered, Scissor Platform Lift	2,494.96	
For Four-Wheel Drive, Add	498.99	
01 22 23 00-0080 DAY 43' Engine Powered, Scissor Platform Lift	518.18	
For Four-Wheel Drive, Add	103.64	
01 22 23 00-0081 WK 43' Engine Powered, Scissor Platform Lift	1,209.10	
For Four-Wheel Drive, Add	241.82	
01 22 23 00-0082 MO 43' Engine Powered, Scissor Platform Lift	2,974.76	
For Four-Wheel Drive, Add	594.95	
01 22 23 00-0083 DAY 50' Engine Powered, Scissor Platform Lift	969.20	
For Four-Wheel Drive, Add	193.84	
01 22 23 00-0084 WK 50' Engine Powered, Scissor Platform Lift	2,130.31	
For Four-Wheel Drive, Add	426.06	
01 22 23 00-0085 MO 50' Engine Powered, Scissor Platform Lift	5,239.42	
For Four-Wheel Drive, Add	1,047.88	
01 22 23 00-0086 Personnel Lifts (01 22 23 00-0001)		
Note: Includes delivery to job site and pick-up when complete. Excludes operator. For use on paved surfaces.		
01 22 23 00-0087 DAY 24', Push-Type, Electric Single Man Personnel Lift	162.30	
01 22 23 00-0088 WK 24', Push-Type, Electric Single Man Personnel Lift	459.84	
01 22 23 00-0089 MO 24', Push-Type, Electric Single Man Personnel Lift	928.70	
01 22 23 00-0090 DAY 30', Push-Type, Electric Single Man Personnel Lift	225.41	
01 22 23 00-0091 WK 30', Push-Type, Electric Single Man Personnel Lift	477.87	
01 22 23 00-0092 MO 30', Push-Type, Electric Single Man Personnel Lift	1,622.97	
01 22 23 00-0093 DAY 36', Push-Type, Electric Single Man Personnel Lift	378.69	
01 22 23 00-0094 WK 36', Push-Type, Electric Single Man Personnel Lift	919.68	
01 22 23 00-0095 MO 36', Push-Type, Electric Single Man Personnel Lift	2,686.92	
01 22 23 00-0096 DAY 40', Push-Type, Electric Single Man Personnel Lift	405.74	
01 22 23 00-0097 WK 40', Push-Type, Electric Single Man Personnel Lift	1,009.85	
01 22 23 00-0098 MO 40', Push-Type, Electric Single Man Personnel Lift	3,038.56	
01 22 23 00-0099 DAY 15', Self-Propelled, Electric Single Man Personnel Lift	216.40	
01 22 23 00-0100 WK 15', Self-Propelled, Electric Single Man Personnel Lift	432.79	
01 22 23 00-0101 MO 15', Self-Propelled, Electric Single Man Personnel Lift	865.58	
01 22 23 00-0102 DAY 20', Self-Propelled, Electric Single Man Personnel Lift	216.40	
01 22 23 00-0103 WK 20', Self-Propelled, Electric Single Man Personnel Lift	432.79	
01 22 23 00-0104 MO 20', Self-Propelled, Electric Single Man Personnel Lift	899.85	

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



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
------------------------------	---------------------------	-------------------------

01 22 23 00-0105	Bucket Trucks <small>(01 22 23 00-0001)</small>	
	Note: Includes full-time operator, delivery, and removal.	
01 22 23 00-0106	DAY 29' To 33' Bucket Truck With Full-Time Operator	1,426.10
	<i>For Equipment Without Operator, Deduct</i>	-727.16
01 22 23 00-0107	WK 29' To 33' Bucket Truck With Full-Time Operator	5,732.63
	<i>For Equipment Without Operator, Deduct</i>	-3,635.81
01 22 23 00-0108	MO 29' To 33' Bucket Truck With Full-Time Operator	21,092.55
	<i>For Equipment Without Operator, Deduct</i>	-15,755.19
01 22 23 00-0109	DAY 38' To 41' Bucket Truck With Full-Time Operator	1,515.06
	<i>For Equipment Without Operator, Deduct</i>	-727.16
01 22 23 00-0110	WK 38' To 41' Bucket Truck With Full-Time Operator	6,018.56
	<i>For Equipment Without Operator, Deduct</i>	-3,635.81
01 22 23 00-0111	MO 38' To 41' Bucket Truck With Full-Time Operator	21,855.03
	<i>For Equipment Without Operator, Deduct</i>	-15,755.19
01 22 23 00-0112	DAY 45' To 48' Bucket Truck With Full-Time Operator	1,743.80
	<i>For Equipment Without Operator, Deduct</i>	-727.16
01 22 23 00-0113	WK 45' To 48' Bucket Truck With Full-Time Operator	6,431.57
	<i>For Equipment Without Operator, Deduct</i>	-3,635.81
01 22 23 00-0114	MO 45' To 48' Bucket Truck With Full-Time Operator	22,744.59
	<i>For Equipment Without Operator, Deduct</i>	-15,755.19
01 22 23 00-0115	DAY 62' Bucket Truck With Full-Time Operator	2,252.12
	<i>For Equipment Without Operator, Deduct</i>	-727.16
01 22 23 00-0116	WK 62' Bucket Truck With Full-Time Operator	8,083.61
	<i>For Equipment Without Operator, Deduct</i>	-3,635.81
01 22 23 00-0117	MO 62' Bucket Truck With Full-Time Operator	27,192.39
	<i>For Equipment Without Operator, Deduct</i>	-15,755.19
01 22 23 00-0118	DAY 85' Bucket Truck With Full-Time Operator	2,506.28
	<i>For Equipment Without Operator, Deduct</i>	-727.16
01 22 23 00-0119	WK 85' Bucket Truck With Full-Time Operator	8,973.17
	<i>For Equipment Without Operator, Deduct</i>	-3,635.81
01 22 23 00-0120	MO 85' Bucket Truck With Full-Time Operator	30,369.39
	<i>For Equipment Without Operator, Deduct</i>	-15,755.19

01 22 23 00-0121	Air Equipment <small>(01 22 23)</small>	
01 22 23 00-0122	Air Compressors <small>(01 22 23 00-0121)</small>	
	Note: Includes delivery, set-up, and removal. Excludes operator.	
01 22 23 00-0123	DAY 100 CFM Diesel Powered Portable Air Compressor	175.84
01 22 23 00-0124	WK 100 CFM Diesel Powered Portable Air Compressor	527.51
01 22 23 00-0125	MO 100 CFM Diesel Powered Portable Air Compressor	1,465.31
01 22 23 00-0126	DAY 130 CFM Diesel Powered Portable Air Compressor	211.00
01 22 23 00-0127	WK 130 CFM Diesel Powered Portable Air Compressor	621.29
01 22 23 00-0128	MO 130 CFM Diesel Powered Portable Air Compressor	1,758.38
01 22 23 00-0129	DAY 185 CFM Diesel Powered Portable Air Compressor	281.34
01 22 23 00-0130	WK 185 CFM Diesel Powered Portable Air Compressor	633.02
01 22 23 00-0131	MO 185 CFM Diesel Powered Portable Air Compressor	1,394.98
01 22 23 00-0132	DAY 375 CFM Diesel Powered Portable Air Compressor	398.56
01 22 23 00-0133	WK 375 CFM Diesel Powered Portable Air Compressor	1,008.14
01 22 23 00-0134	MO 375 CFM Diesel Powered Portable Air Compressor	2,403.11
01 22 23 00-0135	DAY 600 CFM Diesel Powered Portable Air Compressor	886.22
01 22 23 00-0136	WK 600 CFM Diesel Powered Portable Air Compressor	2,133.50
01 22 23 00-0137	MO 600 CFM Diesel Powered Portable Air Compressor	5,317.33
01 22 23 00-0138	DAY 750 CFM Diesel Powered Portable Air Compressor	1,066.75
01 22 23 00-0139	WK 750 CFM Diesel Powered Portable Air Compressor	2,625.84
01 22 23 00-0140	MO 750 CFM Diesel Powered Portable Air Compressor	6,447.38
01 22 23 00-0141	DAY 825 CFM Diesel Powered Portable Air Compressor	1,066.75
01 22 23 00-0142	WK 825 CFM Diesel Powered Portable Air Compressor	2,625.84
01 22 23 00-0143	MO 825 CFM Diesel Powered Portable Air Compressor	6,447.38
01 22 23 00-0144	DAY 1,300 CFM Diesel Powered Portable Air Compressor	1,242.58
01 22 23 00-0145	WK 1,300 CFM Diesel Powered Portable Air Compressor	2,785.27
01 22 23 00-0146	MO 1,300 CFM Diesel Powered Portable Air Compressor	7,427.38
01 22 23 00-0147	DAY 1,600 CFM Diesel Powered Portable Air Compressor	1,547.37
01 22 23 00-0148	WK 1,600 CFM Diesel Powered Portable Air Compressor	3,481.58
01 22 23 00-0149	MO 1,600 CFM Diesel Powered Portable Air Compressor	9,284.22

01 22 23 00-0150	Portable Negative Air Machines <small>(01 22 23 00-0121)</small>	
	Note: A Negative Air Machine is used in a sealed containment area to filter air and exhaust the filtered air through ducting to a location outside the sealed containment area. Includes delivery to job site and pick-up when complete. Excludes all filters and duct.	
01 22 23 00-0151	DAY Up To 2,000 CFM, Portable Negative Air Machine	120.46
01 22 23 00-0152	WK Up To 2,000 CFM, Portable Negative Air Machine	494.73
01 22 23 00-0153	MO Up To 2,000 CFM, Portable Negative Air Machine	1,494.94
01 22 23 00-0154	EA First Stage Pre-Filter For Portable Negative Air Machines	15.71
01 22 23 00-0155	EA Second Stage Pre-Filter For Portable Negative Air Machines	38.73
01 22 23 00-0156	EA High Efficiency Particulate Air (HEPA) Filter, 99.99% Efficient At 0.3 Micron For Portable Negative Air Machines	208.37
01 22 23 00-0157	LF Flexible Exhaust Duct For Portable Negative Air Machines	2.32



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
-------	-----	-----	-------------	------------------------	----------------------

01 22 23 00-0158 Portable Air Scrubbers (01 22 23 00-0121)

Note: A Portable Air Scrubber filters and recirculates the filtered air into the same space and does not use ducting to exhaust the filtered air to a different location. Includes delivery to job site and pick-up when complete. Excludes all filters.

01 22 23 00-0159	DAY	Up To 1,000 CFM, Portable Air Scrubber	100.57
01 22 23 00-0160	WK	Up To 1,000 CFM, Portable Air Scrubber	418.04
01 22 23 00-0161	MO	Up To 1,000 CFM, Portable Air Scrubber	1,157.17
01 22 23 00-0162	DAY	>1,000 to 2,000 CFM, Portable Air Scrubber	127.23
01 22 23 00-0163	WK	>1,000 to 2,000 CFM, Portable Air Scrubber	527.09
01 22 23 00-0164	MO	>1,000 to 2,000 CFM, Portable Air Scrubber	1,544.92
01 22 23 00-0165	DAY	>2,000 To 5,000 CFM, Portable Air Scrubber	163.58
01 22 23 00-0166	WK	>2,000 To 5,000 CFM, Portable Air Scrubber	696.73
01 22 23 00-0167	MO	>2,000 To 5,000 CFM, Portable Air Scrubber	1,950.84
01 22 23 00-0168	EA	First Stage Pre-Filter For Portable Air Scrubbers	22.98
01 22 23 00-0169	EA	Second Stage Pre-Filter For Portable Air Scrubbers	32.67
01 22 23 00-0170	EA	High Efficiency Particulate Air (HEPA) Filter, 99.99% Efficient At 0.3 Micron For Portable Air Scrubbers	353.77

01 22 23 00-0171 Compaction And Paving Equipment (01 22 23)

01 22 23 00-0172 Pavers And Rollers (01 22 23 00-0171)

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

01 22 23 00-0173 Pavers (01 22 23 00-0172)

01 22 23 00-0174	DAY	10' Wide Paving Machine With Full-Time Operator	4,302.90
		<i>For Equipment Without Operator, Deduct</i>	-897.40
01 22 23 00-0175	WK	10' Wide Paving Machine With Full-Time Operator	18,108.99
		<i>For Equipment Without Operator, Deduct</i>	-4,486.98
01 22 23 00-0176	MO	10' Wide Paving Machine With Full-Time Operator	68,094.47
		<i>For Equipment Without Operator, Deduct</i>	-19,443.58

01 22 23 00-0177 Ride-On Self-Propelled, Rubber Tire Rollers (01 22 23 00-0172)

01 22 23 00-0178	DAY	10 To 12 Ton, Ride-On Self Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator	1,296.88
		<i>For Equipment Without Operator, Deduct</i>	-897.40
01 22 23 00-0179	WK	10 To 12 Ton, Ride-On Self Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator	5,695.25
		<i>For Equipment Without Operator, Deduct</i>	-4,486.98
01 22 23 00-0180	MO	10 To 12 Ton, Ride-On Self Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator	22,723.56
		<i>For Equipment Without Operator, Deduct</i>	-19,443.58
01 22 23 00-0181	DAY	15 Ton, Ride-On Self Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator	1,451.07
		<i>For Equipment Without Operator, Deduct</i>	-897.40
01 22 23 00-0182	WK	15 Ton, Ride-On Self Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator	6,841.84
		<i>For Equipment Without Operator, Deduct</i>	-4,486.98
01 22 23 00-0183	MO	15 Ton, Ride-On Self Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator	24,454.66
		<i>For Equipment Without Operator, Deduct</i>	-19,443.58
01 22 23 00-0184	DAY	30 Ton, Ride-On Self Propelled, 11 Wheel Rubber-Tire Roller With Full-Time Operator	1,458.08
		<i>For Equipment Without Operator, Deduct</i>	-897.40
01 22 23 00-0185	WK	30 Ton, Ride-On Self Propelled, 11 Wheel Rubber-Tire Roller With Full-Time Operator	6,386.28
		<i>For Equipment Without Operator, Deduct</i>	-4,486.98
01 22 23 00-0186	MO	30 Ton, Ride-On Self Propelled, 11 Wheel Rubber-Tire Roller With Full-Time Operator	24,791.07
		<i>For Equipment Without Operator, Deduct</i>	-19,443.58

01 22 23 00-0187 Ride-On Self-Propelled, Padfoot Rollers (01 22 23 00-0172)

01 22 23 00-0188	DAY	5 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	1,359.96
		<i>For Equipment Without Operator, Deduct</i>	-897.40
01 22 23 00-0189	WK	5 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	5,769.54
		<i>For Equipment Without Operator, Deduct</i>	-4,486.98
01 22 23 00-0190	MO	5 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	23,151.08
		<i>For Equipment Without Operator, Deduct</i>	-19,443.58
01 22 23 00-0191	DAY	8 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	1,654.32
		<i>For Equipment Without Operator, Deduct</i>	-897.40
01 22 23 00-0192	WK	8 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	6,386.26
		<i>For Equipment Without Operator, Deduct</i>	-4,486.98
01 22 23 00-0193	MO	8 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	25,029.35
		<i>For Equipment Without Operator, Deduct</i>	-19,443.58
01 22 23 00-0194	DAY	10 To 12 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	1,724.40
		<i>For Equipment Without Operator, Deduct</i>	-897.40
01 22 23 00-0195	WK	10 To 12 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	6,806.79
		<i>For Equipment Without Operator, Deduct</i>	-4,486.98
01 22 23 00-0196	MO	10 To 12 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	26,262.85
		<i>For Equipment Without Operator, Deduct</i>	-19,443.58

01 22 23 00-0197 Towed, Padfoot Rollers (01 22 23 00-0172)

01 22 23 00-0198	DAY	48" Wide, 40" Diameter, Towed Padfoot Roller	133.16
01 22 23 00-0199	WK	48" Wide, 40" Diameter, Towed Padfoot Roller	385.47
01 22 23 00-0200	MO	48" Wide, 40" Diameter, Towed Padfoot Roller	1,135.38
01 22 23 00-0201	DAY	60" Wide, 60" Diameter, Towed Padfoot Roller	168.20
01 22 23 00-0202	WK	60" Wide, 60" Diameter, Towed Padfoot Roller	469.57
01 22 23 00-0203	MO	60" Wide, 60" Diameter, Towed Padfoot Roller	1,997.42



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0204 Static Rollers <small>(01 22 23 00-0172)</small>		
01 22 23 00-0205 DAY 5 Ton, 2 Drum Articulated Roller With Full-Time Operator.....	1,395.00	
For Equipment Without Operator, Deduct	-897.40	
01 22 23 00-0206 WK 5 Ton, 2 Drum Articulated Roller With Full-Time Operator.....	6,070.90	
For Equipment Without Operator, Deduct	-4,486.98	
01 22 23 00-0207 MO 5 Ton, 2 Drum Articulated Roller With Full-Time Operator.....	24,139.28	
For Equipment Without Operator, Deduct	-19,443.58	
01 22 23 00-0208 DAY 8 To 10 Ton, 2 Drum Articulated Roller With Full-Time Operator	1,549.19	
For Equipment Without Operator, Deduct	-897.40	
01 22 23 00-0209 WK 8 To 10 Ton, 2 Drum Articulated Roller With Full-Time Operator	6,491.41	
For Equipment Without Operator, Deduct	-4,486.98	
01 22 23 00-0210 MO 8 To 10 Ton, 2 Drum Articulated Roller With Full-Time Operator	25,302.69	
For Equipment Without Operator, Deduct	-19,443.58	
01 22 23 00-0211 Ride-On Self-Propelled, Smooth Drum Vibratory Rollers <small>(01 22 23 00-0172)</small>		
01 22 23 00-0212 DAY 1 Ton, Double Smooth Drums, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	1,170.73	
For Equipment Without Operator, Deduct	-897.40	
01 22 23 00-0213 WK 1 Ton, Double Smooth Drums, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	5,285.95	
For Equipment Without Operator, Deduct	-4,486.98	
01 22 23 00-0214 MO 1 Ton, Double Smooth Drums, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	21,546.13	
For Equipment Without Operator, Deduct	-19,443.58	
01 22 23 00-0215 DAY 3 Ton, Double Smooth Drums, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	1,275.86	
For Equipment Without Operator, Deduct	-897.40	
01 22 23 00-0216 WK 3 Ton, Double Smooth Drums, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	5,601.33	
For Equipment Without Operator, Deduct	-4,486.98	
01 22 23 00-0217 MO 3 Ton, Double Smooth Drums, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	22,387.15	
For Equipment Without Operator, Deduct	-19,443.58	
01 22 23 00-0218 DAY 5 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	1,345.94	
For Equipment Without Operator, Deduct	-897.40	
01 22 23 00-0219 WK 5 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	5,811.59	
For Equipment Without Operator, Deduct	-4,486.98	
01 22 23 00-0220 MO 5 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	22,947.83	
For Equipment Without Operator, Deduct	-19,443.58	
01 22 23 00-0221 DAY 8 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	1,437.05	
For Equipment Without Operator, Deduct	-897.40	
01 22 23 00-0222 WK 8 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	6,077.91	
For Equipment Without Operator, Deduct	-4,486.98	
01 22 23 00-0223 MO 8 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	23,641.67	
For Equipment Without Operator, Deduct	-19,443.58	
01 22 23 00-0224 DAY 11 To 12 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	1,619.28	
For Equipment Without Operator, Deduct	-897.40	
01 22 23 00-0225 WK 11 To 12 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	6,610.56	
For Equipment Without Operator, Deduct	-4,486.98	
01 22 23 00-0226 MO 11 To 12 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	25,050.38	
For Equipment Without Operator, Deduct	-19,443.58	
01 22 23 00-0227 Steel Roadway Plates <small>(01 22 23 00-0171)</small>		
Note: 3 day minimum. Excludes delivery to job site and pick-up when complete. See CSI section 01 22 23 00-0228 for for placement (set-up) from truck and removal from ground (load on truck), 01 71 13 00-0001 for material delivery on truck.		
01 22 23 00-0228 EA Placement And Removal Of Steel Roadway Plates.....	55.18	
01 22 23 00-0229 DAY 1" x 4' x 8' Steel Plate	44.12	
01 22 23 00-0230 WK 1" x 4' x 8' Steel Plate	104.18	
01 22 23 00-0231 MO 1" x 4' x 8' Steel Plate	137.10	
01 22 23 00-0232 DAY 1" x 4' x 10' Steel Plate	58.83	
01 22 23 00-0233 WK 1" x 4' x 10' Steel Plate	132.36	
01 22 23 00-0234 MO 1" x 4' x 10' Steel Plate	161.78	
01 22 23 00-0235 DAY 1" x 5' x 10' Steel Plate	61.28	
01 22 23 00-0236 WK 1" x 5' x 10' Steel Plate	138.49	
01 22 23 00-0237 MO 1" x 5' x 10' Steel Plate	367.68	
01 22 23 00-0238 DAY 1" x 6' x 8' Steel Plate	39.22	
01 22 23 00-0239 WK 1" x 6' x 8' Steel Plate	88.24	
01 22 23 00-0240 MO 1" x 6' x 8' Steel Plate	235.32	
01 22 23 00-0241 DAY 1" x 6' x 10' Steel Plate	73.54	
01 22 23 00-0242 WK 1" x 6' x 10' Steel Plate	96.82	
01 22 23 00-0243 MO 1" x 6' x 10' Steel Plate	258.60	
01 22 23 00-0244 DAY 1" x 6' x 12' Steel Plate	102.95	
01 22 23 00-0245 WK 1" x 6' x 12' Steel Plate	131.75	
01 22 23 00-0246 MO 1" x 6' x 12' Steel Plate	356.65	
01 22 23 00-0247 DAY 1" x 8' x 10' Steel Plate	64.96	
01 22 23 00-0248 WK 1" x 8' x 10' Steel Plate	145.85	
01 22 23 00-0249 MO 1" x 8' x 10' Steel Plate	388.52	
01 22 23 00-0250 DAY 1" x 8' x 12' Steel Plate	117.66	
01 22 23 00-0251 WK 1" x 8' x 12' Steel Plate	145.85	
01 22 23 00-0252 MO 1" x 8' x 12' Steel Plate	705.95	
01 22 23 00-0253 DAY 1" x 8' x 16' Steel Plate	156.88	
01 22 23 00-0254 WK 1" x 8' x 16' Steel Plate	352.97	
01 22 23 00-0255 MO 1" x 8' x 16' Steel Plate	941.26	
01 22 23 00-0256 LF Cold Mix For Temporary Ramp Base, 6" At Edge Of Trench Plate.....	2.45	1.04
01 22 23 00-0257 EA Removal And Resetting Of Steel Roadway Plate	30.65	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0258			Street Sweepers (01 22 23 00-0171) Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0259	DAY		8' Road Broom, Self Propelled Street Sweeper With Full-Time Operator 1,070.48 <i>For Equipment Without Operator, Deduct</i> -854.61		
01 22 23 00-0260	WK		8' Road Broom, Self Propelled Street Sweeper With Full-Time Operator 5,128.45 <i>For Equipment Without Operator, Deduct</i> -4,273.04		
01 22 23 00-0261	MO		8' Road Broom, Self Propelled Street Sweeper With Full-Time Operator 21,564.16 <i>For Equipment Without Operator, Deduct</i> -18,516.51		
01 22 23 00-0262	DAY		Self-Propelled Street Sweeper With Hopper And Full-Time Operator 1,898.67 Note: Truck with main and gutter brooms, elevator, debris hopper and water tank. <i>For Equipment Without Operator, Deduct</i> -854.61		
01 22 23 00-0263	WK		Self-Propelled Street Sweeper With Hopper And Full-Time Operator 8,455.05 Note: Truck with main and gutter brooms, elevator, debris hopper and water tank. <i>For Equipment Without Operator, Deduct</i> -4,273.04		
01 22 23 00-0264	MO		Self-Propelled Street Sweeper With Hopper And Full-Time Operator 33,441.11 Note: Truck with main and gutter brooms, elevator, debris hopper and water tank. <i>For Equipment Without Operator, Deduct</i> -18,516.51		
01 22 23 00-0265			Earthmoving Equipment (01 22 23)		
01 22 23 00-0266			Skid-Steer Loaders (01 22 23 00-0265) Note: Includes full-time operator and combination bucket and dozer blade attachments. Add extra attachments where necessary. Excludes delivery, set-up, and removal.		
01 22 23 00-0267	DAY		700 LB Capacity, 36" Wide, Skid-Steer Loader With Full-Time Operator 1,183.81 <i>For Equipment Without Operator, Deduct</i> -854.61		
01 22 23 00-0268	WK		700 LB Capacity, 36" Wide, Skid-Steer Loader With Full-Time Operator 5,136.67 <i>For Equipment Without Operator, Deduct</i> -4,273.04		
01 22 23 00-0269	MO		700 LB Capacity, 36" Wide, Skid-Steer Loader With Full-Time Operator 20,596.38 <i>For Equipment Without Operator, Deduct</i> -18,516.51		
01 22 23 00-0270	DAY		1,500 To 1,700 LB Capacity, 60" Wide, Skid-Steer Loader With Full-Time Operator 1,270.58 <i>For Equipment Without Operator, Deduct</i> -854.61		
01 22 23 00-0271	WK		1,500 To 1,700 LB Capacity, 60" Wide, Skid-Steer Loader With Full-Time Operator 5,293.69 <i>For Equipment Without Operator, Deduct</i> -4,273.04		
01 22 23 00-0272	MO		1,500 To 1,700 LB Capacity, 60" Wide, Skid-Steer Loader With Full-Time Operator 20,940.73 <i>For Equipment Without Operator, Deduct</i> -18,516.51		
01 22 23 00-0273	DAY		2,000 To 2,400 LB Capacity, 72" Wide, Skid-Steer Loader With Full-Time Operator 1,295.38 <i>For Equipment Without Operator, Deduct</i> -854.61		
01 22 23 00-0274	WK		2,000 To 2,400 LB Capacity, 72" Wide, Skid-Steer Loader With Full-Time Operator 5,519.59 <i>For Equipment Without Operator, Deduct</i> -4,273.04		
01 22 23 00-0275	MO		2,000 To 2,400 LB Capacity, 72" Wide, Skid-Steer Loader With Full-Time Operator 21,539.90 <i>For Equipment Without Operator, Deduct</i> -18,516.51		
01 22 23 00-0276	DAY		2,500 To 2,700 LB Capacity, 78" Wide, Tracked Skid-Steer Loader With Full-Time Operator 1,391.80 <i>For Equipment Without Operator, Deduct</i> -854.61		
01 22 23 00-0277	WK		2,500 To 2,700 LB Capacity, 78" Wide, Tracked Skid-Steer Loader With Full-Time Operator 5,836.39 <i>For Equipment Without Operator, Deduct</i> -4,273.04		
01 22 23 00-0278	MO		2,500 To 2,700 LB Capacity, 78" Wide, Tracked Skid-Steer Loader With Full-Time Operator 22,586.73 <i>For Equipment Without Operator, Deduct</i> -18,516.51		
01 22 23 00-0279	DAY		3,200 To 3,500 LB Capacity, 78" Wide, Tracked Skid-Steer Loader With Full-Time Operator 1,557.08 <i>For Equipment Without Operator, Deduct</i> -854.61		
01 22 23 00-0280	WK		3,200 To 3,500 LB Capacity, 78" Wide, Tracked Skid-Steer Loader With Full-Time Operator 6,463.11 <i>For Equipment Without Operator, Deduct</i> -4,273.04		
01 22 23 00-0281	MO		3,200 To 3,500 LB Capacity, 78" Wide, Tracked Skid-Steer Loader With Full-Time Operator 24,129.41 <i>For Equipment Without Operator, Deduct</i> -18,516.51		
01 22 23 00-0282	DAY		Hydraulic Hammer Attachment For Skid-Steer Loaders 275.48		
01 22 23 00-0283	WK		Hydraulic Hammer Attachment For Skid-Steer Loaders 915.97		
01 22 23 00-0284	MO		Hydraulic Hammer Attachment For Skid-Steer Loaders 2,438.00		
01 22 23 00-0285	DAY		Forklift Attachment For Skid-Steer Loaders 59.23		
01 22 23 00-0286	WK		Forklift Attachment For Skid-Steer Loaders 158.40		
01 22 23 00-0287	MO		Forklift Attachment For Skid-Steer Loaders 447.66		
01 22 23 00-0288	DAY		Backhoe Attachment For Skid-Steer Loaders 130.85		
01 22 23 00-0289	WK		Backhoe Attachment For Skid-Steer Loaders 314.05		
01 22 23 00-0290	MO		Backhoe Attachment For Skid-Steer Loaders 780.99		
01 22 23 00-0291	DAY		Broom Attachment For Skid-Steer Loaders 129.48		
01 22 23 00-0292	WK		Broom Attachment For Skid-Steer Loaders 351.24		
01 22 23 00-0293	MO		Broom Attachment For Skid-Steer Loaders 929.74		
01 22 23 00-0294	DAY		Auger Attachment (Excludes Bits And Extensions) For Skid-Steer Loaders 112.95		
01 22 23 00-0295	WK		Auger Attachment (Excludes Bits And Extensions) For Skid-Steer Loaders 311.29		
01 22 23 00-0296	MO		Auger Attachment (Excludes Bits And Extensions) For Skid-Steer Loaders 849.86		
01 22 23 00-0297	DAY		Up To 18" Diameter, 4' Length, Auger Bit For Skid-Steer Mounted Augers (Excludes Auger) 31.13		
01 22 23 00-0298	WK		Up To 18" Diameter, 4' Length, Auger Bit For Skid-Steer Mounted Augers (Excludes Auger) 81.45		
01 22 23 00-0299	MO		Up To 18" Diameter, 4' Length, Auger Bit For Skid-Steer Mounted Augers (Excludes Auger) 239.54		
01 22 23 00-0300	DAY		>18" To 48" Diameter, 4' Length, Auger Bit For Skid-Steer Mounted Augers (Excludes Auger) 41.91		
01 22 23 00-0301	WK		>18" To 48" Diameter, 4' Length, Auger Bit For Skid-Steer Mounted Augers (Excludes Auger) 104.20		
01 22 23 00-0302	MO		>18" To 48" Diameter, 4' Length, Auger Bit For Skid-Steer Mounted Augers (Excludes Auger) 311.42		
01 22 23 00-0303	DAY		Up To 24" Diameter, 4' Length, Rock Tip Auger Bit For Skid-Steer Mounted Augers (Excludes Auger) 61.07		
01 22 23 00-0304	WK		Up To 24" Diameter, 4' Length, Rock Tip Auger Bit For Skid-Steer Mounted Augers (Excludes Auger) 185.66		
01 22 23 00-0305	MO		Up To 24" Diameter, 4' Length, Rock Tip Auger Bit For Skid-Steer Mounted Augers (Excludes Auger) 550.96		
01 22 23 00-0306	DAY		2' Length, Auger Bit Extension For Skid-Steer Mounted Augers (Excludes Auger) 12.40		
01 22 23 00-0307	WK		2' Length, Auger Bit Extension For Skid-Steer Mounted Augers (Excludes Auger) 28.93		
01 22 23 00-0308	MO		2' Length, Auger Bit Extension For Skid-Steer Mounted Augers (Excludes Auger) 77.13		

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



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0309		
Bulldozers <small>(01 22 23 00-0265)</small>		
Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0310 DAY 70 HP, D3 Bulldozer With Full-Time Operator	1,369.60	
For Equipment Without Operator, Deduct	-897.40	
01 22 23 00-0311 WK 70 HP, D3 Bulldozer With Full-Time Operator	6,349.07	
For Equipment Without Operator, Deduct	-4,486.98	
01 22 23 00-0312 MO 70 HP, D3 Bulldozer With Full-Time Operator	24,967.47	
For Equipment Without Operator, Deduct	-19,443.58	
01 22 23 00-0313 DAY 90 To 105 HP, D4 Or D5 Bulldozer With Full-Time Operator	1,592.34	
For Equipment Without Operator, Deduct	-897.40	
01 22 23 00-0314 WK 90 To 105 HP, D4 Or D5 Bulldozer With Full-Time Operator	7,248.92	
For Equipment Without Operator, Deduct	-4,486.98	
01 22 23 00-0315 MO 90 To 105 HP, D4 Or D5 Bulldozer With Full-Time Operator	27,729.42	
For Equipment Without Operator, Deduct	-19,443.58	
01 22 23 00-0316 DAY 140 HP, D6 Bulldozer With Full-Time Operator	2,224.92	
For Equipment Without Operator, Deduct	-897.40	
01 22 23 00-0317 WK 140 HP, D6 Bulldozer With Full-Time Operator	9,779.22	
For Equipment Without Operator, Deduct	-4,486.98	
01 22 23 00-0318 MO 140 HP, D6 Bulldozer With Full-Time Operator	35,302.49	
For Equipment Without Operator, Deduct	-19,443.58	
01 22 23 00-0319 DAY 200 HP, D7 Bulldozer With Full-Time Operator	2,786.21	
For Equipment Without Operator, Deduct	-897.40	
01 22 23 00-0320 WK 200 HP, D7 Bulldozer With Full-Time Operator	12,033.33	
For Equipment Without Operator, Deduct	-4,486.98	
01 22 23 00-0321 MO 200 HP, D7 Bulldozer With Full-Time Operator	42,073.71	
For Equipment Without Operator, Deduct	-19,443.58	
01 22 23 00-0322 DAY 335 HP, D8 Bulldozer With Full-Time Operator	3,454.43	
For Equipment Without Operator, Deduct	-897.40	
01 22 23 00-0323 WK 335 HP, D8 Bulldozer With Full-Time Operator	14,706.18	
For Equipment Without Operator, Deduct	-4,486.98	
01 22 23 00-0324 MO 335 HP, D8 Bulldozer With Full-Time Operator	50,092.26	
For Equipment Without Operator, Deduct	-19,443.58	
01 22 23 00-0325 DAY 460 HP, D9 Bulldozer With Full-Time Operator	3,828.63	
For Equipment Without Operator, Deduct	-897.40	
01 22 23 00-0326 WK 460 HP, D9 Bulldozer With Full-Time Operator	16,194.06	
For Equipment Without Operator, Deduct	-4,486.98	
01 22 23 00-0327 MO 460 HP, D9 Bulldozer With Full-Time Operator	54,547.01	
For Equipment Without Operator, Deduct	-19,443.58	
01 22 23 00-0328		
Motor Scraper <small>(01 22 23 00-0265)</small>		
Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0329 DAY 11 CY Motor Scraper-Hauler With Full-Time Operator	3,231.06	
For Equipment Without Operator, Deduct	-897.40	
01 22 23 00-0330 WK 11 CY Motor Scraper-Hauler With Full-Time Operator	13,821.64	
For Equipment Without Operator, Deduct	-4,486.98	
01 22 23 00-0331 MO 11 CY Motor Scraper-Hauler With Full-Time Operator	47,415.58	
For Equipment Without Operator, Deduct	-19,443.58	
01 22 23 00-0332 DAY 18 CY Motor Scraper-Hauler With Full-Time Operator	4,174.12	
For Equipment Without Operator, Deduct	-897.40	
01 22 23 00-0333 WK 18 CY Motor Scraper-Hauler With Full-Time Operator	17,593.86	
For Equipment Without Operator, Deduct	-4,486.98	
01 22 23 00-0334 MO 18 CY Motor Scraper-Hauler With Full-Time Operator	58,764.22	
For Equipment Without Operator, Deduct	-19,443.58	
01 22 23 00-0335 DAY 24 CY Motor Scraper-Hauler With Full-Time Operator	5,085.21	
For Equipment Without Operator, Deduct	-897.40	
01 22 23 00-0336 WK 24 CY Motor Scraper-Hauler With Full-Time Operator	21,222.23	
For Equipment Without Operator, Deduct	-4,486.98	
01 22 23 00-0337 MO 24 CY Motor Scraper-Hauler With Full-Time Operator	69,633.34	
For Equipment Without Operator, Deduct	-19,443.58	
01 22 23 00-0338		
Hydraulic Excavators <small>(01 22 23 00-0265)</small>		
Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0339 DAY 3/8 CY Hydraulic Excavator With Full-Time Operator	1,262.41	
For Equipment Without Operator, Deduct	-897.40	
01 22 23 00-0340 WK 3/8 CY Hydraulic Excavator With Full-Time Operator	5,778.04	
For Equipment Without Operator, Deduct	-4,486.98	
01 22 23 00-0341 MO 3/8 CY Hydraulic Excavator With Full-Time Operator	23,769.66	
For Equipment Without Operator, Deduct	-19,443.58	
01 22 23 00-0342 DAY 1/2 CY Hydraulic Excavator With Full-Time Operator	1,365.16	
For Equipment Without Operator, Deduct	-897.40	
01 22 23 00-0343 WK 1/2 CY Hydraulic Excavator With Full-Time Operator	6,230.93	
For Equipment Without Operator, Deduct	-4,486.98	
01 22 23 00-0344 MO 1/2 CY Hydraulic Excavator With Full-Time Operator	25,581.21	
For Equipment Without Operator, Deduct	-19,443.58	
01 22 23 00-0345 DAY 5/8 CY Hydraulic Excavator With Full-Time Operator	1,397.60	
For Equipment Without Operator, Deduct	-897.40	
01 22 23 00-0346 WK 5/8 CY Hydraulic Excavator With Full-Time Operator	6,399.92	
For Equipment Without Operator, Deduct	-4,486.98	
01 22 23 00-0347 MO 5/8 CY Hydraulic Excavator With Full-Time Operator	25,878.62	
For Equipment Without Operator, Deduct	-19,443.58	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0348 DAY 3/4 CY Hydraulic Excavator With Full-Time Operator.....	1,431.40	
<i>For Equipment Without Operator, Deduct</i>	-897.40	
01 22 23 00-0349 WK 3/4 CY Hydraulic Excavator With Full-Time Operator.....	6,555.39	
<i>For Equipment Without Operator, Deduct</i>	-4,486.98	
01 22 23 00-0350 MO 3/4 CY Hydraulic Excavator With Full-Time Operator.....	26,176.04	
<i>For Equipment Without Operator, Deduct</i>	-19,443.58	
01 22 23 00-0351 DAY 7/8 To 1 CY Hydraulic Excavator With Full-Time Operator.....	1,458.44	
<i>For Equipment Without Operator, Deduct</i>	-897.40	
01 22 23 00-0352 WK 7/8 To 1 CY Hydraulic Excavator With Full-Time Operator.....	6,717.62	
<i>For Equipment Without Operator, Deduct</i>	-4,486.98	
01 22 23 00-0353 MO 7/8 To 1 CY Hydraulic Excavator With Full-Time Operator.....	26,473.46	
<i>For Equipment Without Operator, Deduct</i>	-19,443.58	
01 22 23 00-0354 DAY 1-1/8 To 1-1/4 CY Hydraulic Excavator With Full-Time Operator	1,823.45	
<i>For Equipment Without Operator, Deduct</i>	-897.40	
01 22 23 00-0355 WK 1-1/8 To 1-1/4 CY Hydraulic Excavator With Full-Time Operator	8,170.91	
<i>For Equipment Without Operator, Deduct</i>	-4,486.98	
01 22 23 00-0356 MO 1-1/8 To 1-1/4 CY Hydraulic Excavator With Full-Time Operator	30,495.36	
<i>For Equipment Without Operator, Deduct</i>	-19,443.58	
01 22 23 00-0357 DAY 1-3/8 To 1-1/2 CY Hydraulic Excavator With Full-Time Operator	1,877.53	
<i>For Equipment Without Operator, Deduct</i>	-897.40	
01 22 23 00-0358 WK 1-3/8 To 1-1/2 CY Hydraulic Excavator With Full-Time Operator	8,407.49	
<i>For Equipment Without Operator, Deduct</i>	-4,486.98	
01 22 23 00-0359 MO 1-3/8 To 1-1/2 CY Hydraulic Excavator With Full-Time Operator	31,205.11	
<i>For Equipment Without Operator, Deduct</i>	-19,443.58	
01 22 23 00-0360 DAY 1-5/8 To 1-7/8 CY Hydraulic Excavator With Full-Time Operator	1,978.92	
<i>For Equipment Without Operator, Deduct</i>	-897.40	
01 22 23 00-0361 WK 1-5/8 To 1-7/8 CY Hydraulic Excavator With Full-Time Operator	8,813.06	
<i>For Equipment Without Operator, Deduct</i>	-4,486.98	
01 22 23 00-0362 MO 1-5/8 To 1-7/8 CY Hydraulic Excavator With Full-Time Operator	32,421.82	
<i>For Equipment Without Operator, Deduct</i>	-19,443.58	
01 22 23 00-0363 DAY 2 To 2-3/8 CY Hydraulic Excavator With Full-Time Operator	2,093.83	
<i>For Equipment Without Operator, Deduct</i>	-897.40	
01 22 23 00-0364 WK 2 To 2-3/8 CY Hydraulic Excavator With Full-Time Operator	9,265.95	
<i>For Equipment Without Operator, Deduct</i>	-4,486.98	
01 22 23 00-0365 MO 2 To 2-3/8 CY Hydraulic Excavator With Full-Time Operator	33,773.72	
<i>For Equipment Without Operator, Deduct</i>	-19,443.58	
01 22 23 00-0366 DAY 2-1/2 To 2-7/8 CY Hydraulic Excavator With Full-Time Operator	2,127.63	
<i>For Equipment Without Operator, Deduct</i>	-897.40	
01 22 23 00-0367 WK 2-1/2 To 2-7/8 CY Hydraulic Excavator With Full-Time Operator	9,401.14	
<i>For Equipment Without Operator, Deduct</i>	-4,486.98	
01 22 23 00-0368 MO 2-1/2 To 2-7/8 CY Hydraulic Excavator With Full-Time Operator	34,179.29	
<i>For Equipment Without Operator, Deduct</i>	-19,443.58	
01 22 23 00-0369 DAY 3 To 3-3/4 CY Hydraulic Excavator With Full-Time Operator	2,452.08	
<i>For Equipment Without Operator, Deduct</i>	-897.40	
01 22 23 00-0370 WK 3 To 3-3/4 CY Hydraulic Excavator With Full-Time Operator	10,705.72	
<i>For Equipment Without Operator, Deduct</i>	-4,486.98	
01 22 23 00-0371 MO 3 To 3-3/4 CY Hydraulic Excavator With Full-Time Operator	38,099.80	
<i>For Equipment Without Operator, Deduct</i>	-19,443.58	
01 22 23 00-0372 DAY 4 To 5-3/4 CY Hydraulic Excavator With Full-Time Operator	2,918.49	
<i>For Equipment Without Operator, Deduct</i>	-897.40	
01 22 23 00-0373 WK 4 To 5-3/4 CY Hydraulic Excavator With Full-Time Operator	12,557.82	
<i>For Equipment Without Operator, Deduct</i>	-4,486.98	
01 22 23 00-0374 MO 4 To 5-3/4 CY Hydraulic Excavator With Full-Time Operator	43,642.59	
<i>For Equipment Without Operator, Deduct</i>	-19,443.58	
01 22 23 00-0375 DAY 6 To 11 CY Hydraulic Excavator With Full-Time Operator.....	3,493.05	
<i>For Equipment Without Operator, Deduct</i>	-897.40	
01 22 23 00-0376 WK 6 To 11 CY Hydraulic Excavator With Full-Time Operator.....	14,856.05	
<i>For Equipment Without Operator, Deduct</i>	-4,486.98	
01 22 23 00-0377 MO 6 To 11 CY Hydraulic Excavator With Full-Time Operator.....	50,532.28	
<i>For Equipment Without Operator, Deduct</i>	-19,443.58	
01 22 23 00-0378 DAY Thumbs Or Grapple Attachment For Hydraulic Excavators	94.63	
01 22 23 00-0379 WK Thumbs Or Grapple Attachment For Hydraulic Excavators	365.01	
01 22 23 00-0380 MO Thumbs Or Grapple Attachment For Hydraulic Excavators	1,081.52	
01 22 23 00-0381 DAY 1,000 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators	419.09	
01 22 23 00-0382 WK 1,000 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators	1,108.56	
01 22 23 00-0383 MO 1,000 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators	3,102.61	
01 22 23 00-0384 DAY 1,500 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators	648.91	
01 22 23 00-0385 WK 1,500 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators	1,656.08	
01 22 23 00-0386 MO 1,500 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators	4,305.80	
01 22 23 00-0387 DAY 3,000 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators	905.77	
01 22 23 00-0388 WK 3,000 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators	2,440.18	
01 22 23 00-0389 MO 3,000 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators	6,840.61	
01 22 23 00-0390 DAY 24" Compaction Wheel Attachment For Hydraulic Excavators	189.27	
01 22 23 00-0391 WK 24" Compaction Wheel Attachment For Hydraulic Excavators	757.06	
01 22 23 00-0392 MO 24" Compaction Wheel Attachment For Hydraulic Excavators	2,271.19	
01 22 23 00-0393 DAY 36" Compaction Wheel Attachment For Hydraulic Excavators	270.38	
01 22 23 00-0394 WK 36" Compaction Wheel Attachment For Hydraulic Excavators	1,081.52	
01 22 23 00-0395 MO 36" Compaction Wheel Attachment For Hydraulic Excavators	3,244.56	
01 22 23 00-0396 DAY 48" Compaction Wheel Attachment For Hydraulic Excavators	297.42	
01 22 23 00-0397 WK 48" Compaction Wheel Attachment For Hydraulic Excavators	1,176.15	
01 22 23 00-0398 MO 48" Compaction Wheel Attachment For Hydraulic Excavators	3,514.94	

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



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0399	Mini-Excavators <small>(01 22 23 00-0265)</small>	
Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0400 DAY 2,000 LB Mini-Excavator With Full-Time Operator.....	1,181.30	
For Equipment Without Operator, Deduct	-897.40	
01 22 23 00-0401 WK 2,000 LB Mini-Excavator With Full-Time Operator.....	5,291.36	
For Equipment Without Operator, Deduct	-4,486.98	
01 22 23 00-0402 MO 2,000 LB Mini-Excavator With Full-Time Operator.....	21,214.57	
For Equipment Without Operator, Deduct	-19,443.58	
01 22 23 00-0403 DAY 3,500 LB Mini-Excavator With Full-Time Operator.....	1,188.06	
For Equipment Without Operator, Deduct	-897.40	
01 22 23 00-0404 WK 3,500 LB Mini-Excavator With Full-Time Operator.....	5,311.64	
For Equipment Without Operator, Deduct	-4,486.98	
01 22 23 00-0405 MO 3,500 LB Mini-Excavator With Full-Time Operator.....	21,640.42	
For Equipment Without Operator, Deduct	-19,443.58	
01 22 23 00-0406 DAY 6,000 LB Mini-Excavator With Full-Time Operator.....	1,221.86	
For Equipment Without Operator, Deduct	-897.40	
01 22 23 00-0407 WK 6,000 LB Mini-Excavator With Full-Time Operator.....	5,406.27	
For Equipment Without Operator, Deduct	-4,486.98	
01 22 23 00-0408 MO 6,000 LB Mini-Excavator With Full-Time Operator.....	21,701.25	
For Equipment Without Operator, Deduct	-19,443.58	
01 22 23 00-0409 DAY 7,500 LB Mini-Excavator With Full-Time Operator.....	1,235.38	
For Equipment Without Operator, Deduct	-897.40	
01 22 23 00-0410 WK 7,500 LB Mini-Excavator With Full-Time Operator.....	5,453.59	
For Equipment Without Operator, Deduct	-4,486.98	
01 22 23 00-0411 MO 7,500 LB Mini-Excavator With Full-Time Operator.....	21,728.29	
For Equipment Without Operator, Deduct	-19,443.58	
01 22 23 00-0412 DAY 9,500 LB Mini-Excavator With Full-Time Operator.....	1,316.49	
For Equipment Without Operator, Deduct	-897.40	
01 22 23 00-0413 WK 9,500 LB Mini-Excavator With Full-Time Operator.....	5,521.18	
For Equipment Without Operator, Deduct	-4,486.98	
01 22 23 00-0414 MO 9,500 LB Mini-Excavator With Full-Time Operator.....	22,512.39	
For Equipment Without Operator, Deduct	-19,443.58	
01 22 23 00-0415 DAY 11,000 LB Mini-Excavator With Full-Time Operator.....	1,323.25	
For Equipment Without Operator, Deduct	-897.40	
01 22 23 00-0416 WK 11,000 LB Mini-Excavator With Full-Time Operator.....	5,859.16	
For Equipment Without Operator, Deduct	-4,486.98	
01 22 23 00-0417 MO 11,000 LB Mini-Excavator With Full-Time Operator.....	22,546.19	
For Equipment Without Operator, Deduct	-19,443.58	
01 22 23 00-0418	Road Graders <small>(01 22 23 00-0265)</small>	
Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0419 DAY 60 HP Road Grader With Full-Time Operator.....	2,218.96	
For Equipment Without Operator, Deduct	-897.40	
01 22 23 00-0420 WK 60 HP Road Grader With Full-Time Operator.....	8,061.96	
For Equipment Without Operator, Deduct	-4,486.98	
01 22 23 00-0421 MO 60 HP Road Grader With Full-Time Operator.....	30,134.64	
For Equipment Without Operator, Deduct	-19,443.58	
01 22 23 00-0422 DAY 80 HP Road Grader With Full-Time Operator.....	2,608.65	
For Equipment Without Operator, Deduct	-897.40	
01 22 23 00-0423 WK 80 HP Road Grader With Full-Time Operator.....	9,146.32	
For Equipment Without Operator, Deduct	-4,486.98	
01 22 23 00-0424 MO 80 HP Road Grader With Full-Time Operator.....	33,421.59	
For Equipment Without Operator, Deduct	-19,443.58	
01 22 23 00-0425 DAY 130 HP Road Grader With Full-Time Operator.....	2,344.75	
For Equipment Without Operator, Deduct	-897.40	
01 22 23 00-0426 WK 130 HP Road Grader With Full-Time Operator.....	10,276.42	
For Equipment Without Operator, Deduct	-4,486.98	
01 22 23 00-0427 MO 130 HP Road Grader With Full-Time Operator.....	40,133.21	
For Equipment Without Operator, Deduct	-19,443.58	
01 22 23 00-0428	Loader-Backhoes With Standard Bucket <small>(01 22 23 00-0265)</small>	
Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0429 DAY 1/2 To 5/8 CY, 65 HP, Loader-Backhoe With Standard Bucket And Full-Time Operator.....	1,352.23	
For Equipment Without Operator, Deduct	-897.40	
01 22 23 00-0430 WK 1/2 To 5/8 CY, 65 HP, Loader-Backhoe With Standard Bucket And Full-Time Operator.....	5,567.21	
For Equipment Without Operator, Deduct	-4,486.98	
01 22 23 00-0431 MO 1/2 To 5/8 CY, 65 HP, Loader-Backhoe With Standard Bucket And Full-Time Operator.....	21,985.77	
For Equipment Without Operator, Deduct	-19,443.58	
01 22 23 00-0432 DAY 1 CY, 24" Bucket, 14'-4" Deep, 75 HP, Loader-Backhoe With Full-Time Operator.....	1,400.96	
For Equipment Without Operator, Deduct	-897.40	
01 22 23 00-0433 WK 1 CY, 24" Bucket, 14'-4" Deep, 75 HP, Loader-Backhoe With Full-Time Operator.....	5,737.77	
For Equipment Without Operator, Deduct	-4,486.98	
01 22 23 00-0434 MO 1 CY, 24" Bucket, 14'-4" Deep, 75 HP, Loader-Backhoe With Full-Time Operator.....	23,025.38	
For Equipment Without Operator, Deduct	-19,443.58	
01 22 23 00-0435 DAY 1-1/2 CY, 24" Bucket, 16'-6" Deep, 90 HP, Loader-Backhoe With Full-Time Operator.....	1,476.09	
For Equipment Without Operator, Deduct	-897.40	
01 22 23 00-0436 WK 1-1/2 CY, 24" Bucket, 16'-6" Deep, 90 HP, Loader-Backhoe With Full-Time Operator.....	5,924.57	
For Equipment Without Operator, Deduct	-4,486.98	
01 22 23 00-0437 MO 1-1/2 CY, 24" Bucket, 16'-6" Deep, 90 HP, Loader-Backhoe With Full-Time Operator.....	23,561.43	
For Equipment Without Operator, Deduct	-19,443.58	
01 22 23 00-0438 DAY 1-3/4 CY, 30" Bucket, 18'-0" Deep, 112 HP, Loader-Backhoe With Full-Time Operator.....	1,811.12	
For Equipment Without Operator, Deduct	-897.40	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0439 WK 1-3/4 CY, 30" Bucket, 18'-0" Deep, 112 HP, Loader-Backhoe With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	6,923.58 -4,486.98	
01 22 23 00-0440 MO 1-3/4 CY, 30" Bucket, 18'-0" Deep, 112 HP, Loader-Backhoe With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	26,420.38 -19,443.58	
01 22 23 00-0441 Heavy Duty Construction Loaders <small>(01 22 23 00-0265)</small> Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0442 DAY 2-1/2 CY, 119 HP, Heavy Duty Construction Loader With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	1,404.95 -897.40	
01 22 23 00-0443 WK 2-1/2 CY, 119 HP, Heavy Duty Construction Loader With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	6,493.76 -4,486.98	
01 22 23 00-0444 MO 2-1/2 CY, 119 HP, Heavy Duty Construction Loader With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	25,456.12 -19,443.58	
01 22 23 00-0445 DAY 3 CY, 135 HP, Heavy Duty Construction Loader With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	1,826.61 -897.40	
01 22 23 00-0446 WK 3 CY, 135 HP, Heavy Duty Construction Loader With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	6,954.47 -4,486.98	
01 22 23 00-0447 MO 3 CY, 135 HP, Heavy Duty Construction Loader With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	25,690.38 -19,443.58	
01 22 23 00-0448 DAY 3-1/2 CY, 198 HP, Heavy Duty Construction Loader With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	1,920.31 -897.40	
01 22 23 00-0449 WK 3-1/2 CY, 198 HP, Heavy Duty Construction Loader With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	7,204.34 -4,486.98	
01 22 23 00-0450 MO 3-1/2 CY, 198 HP, Heavy Duty Construction Loader With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	26,315.06 -19,443.58	
01 22 23 00-0451 DAY 4-1/2 CY, 215 HP, Heavy Duty Construction Loader With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	2,177.99 -897.40	
01 22 23 00-0452 WK 4-1/2 CY, 215 HP, Heavy Duty Construction Loader With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	7,883.68 -4,486.98	
01 22 23 00-0453 MO 4-1/2 CY, 215 HP, Heavy Duty Construction Loader With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	28,032.93 -19,443.58	
01 22 23 00-0454 DAY 7-1/3 CY, 330 HP, Heavy Duty Construction Loader With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	2,841.72 -897.40	
01 22 23 00-0455 WK 7-1/3 CY, 330 HP, Heavy Duty Construction Loader With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	12,248.63 -4,486.98	
01 22 23 00-0456 MO 7-1/3 CY, 330 HP, Heavy Duty Construction Loader With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	42,712.91 -19,443.58	
01 22 23 00-0457 DAY 13-1/2 CY, 690 HP, Heavy Duty Construction Loader With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	7,214.40 -897.40	
01 22 23 00-0458 WK 13-1/2 CY, 690 HP, Heavy Duty Construction Loader With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	24,999.69 -4,486.98	
01 22 23 00-0459 MO 13-1/2 CY, 690 HP, Heavy Duty Construction Loader With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	75,346.27 -19,443.58	
01 22 23 00-0460 Telescopic Hydraulic Excavators (Gradall) <small>(01 22 23 00-0265)</small> Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0461 DAY Gradall, Telescopic Hydraulic Excavator With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i> <i>For Track Gradall, Add</i>	4,465.51 -897.40 428.17	
01 22 23 00-0462 WK Gradall, Telescopic Hydraulic Excavator With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i> <i>For Track Gradall, Add</i>	18,743.46 -4,486.98 1,710.78	
01 22 23 00-0463 MO Gradall, Telescopic Hydraulic Excavator With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i> <i>For Track Gradall, Add</i>	70,326.98 -19,443.58 6,106.01	
01 22 23 00-0464 Shoring <small>(01 22 23 00-0265)</small> Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0465 Aluminum Hydraulic Shoring <small>(01 22 23 00-0464)</small> Note: Includes delivery to job site and pick-up when complete. Excludes sheeting.		
01 22 23 00-0466 WK 2' Rails, 1 Cylinder, Aluminum Hydraulic Shoring..... Note: Up to 88" spread width.	114.71	
01 22 23 00-0467 MO 2' Rails, 1 Cylinder, Aluminum Hydraulic Shoring..... Note: Up to 88" spread width.	338.35	
01 22 23 00-0468 WK Up To 12' Rails, 2 Cylinders, Aluminum Hydraulic Shoring..... Note: Up to 88" spread width.	153.88	
01 22 23 00-0469 MO Up To 12' Rails, 2 Cylinders, Aluminum Hydraulic Shoring..... Note: Up to 88" spread width.	453.89	
01 22 23 00-0470 WK Up To 16' Rails, 3 Cylinders, Aluminum Hydraulic Shoring..... Note: Up to 88" spread width.	285.34	
01 22 23 00-0471 MO Up To 16' Rails, 3 Cylinders, Aluminum Hydraulic Shoring..... Note: Up to 88" spread width.	841.75	
01 22 23 00-0472 EA Set-up And Removal Of 1 Cylinder Aluminum Hydraulic Shores.....	26.37	
01 22 23 00-0473 EA Set-up And Removal Of 2 Cylinders Aluminum Hydraulic Shores.....	42.19	
01 22 23 00-0474 EA Set-up And Removal Of 3 Cylinders Aluminum Hydraulic Shores.....	70.31	
01 22 23 00-0475 Trench Boxes/Trench Shields <small>(01 22 23 00-0265)</small> Note: Trenching tasks include moving the trench box in excavation as trenching proceeds. Includes delivery to job site and pick-up when complete. For stackable units, combine multiple units for depth required.		

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



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
-------	-----	-----	-------------	------------------------	----------------------

01 22 23 00-0476	WK	4' x 6'	Trench Box With Up To 48" Spreaders.....	256.08	
01 22 23 00-0477	MO	4' x 6'	Trench Box With Up To 48" Spreaders.....	768.23	
01 22 23 00-0478	WK	6' x 6'	Trench Box With Up To 48" Spreaders.....	289.12	
01 22 23 00-0479	MO	6' x 6'	Trench Box With Up To 48" Spreaders.....	867.35	
01 22 23 00-0480	WK	8' x 6'	Trench Box With Up To 48" Spreaders.....	305.64	
01 22 23 00-0481	MO	8' x 6'	Trench Box With Up To 48" Spreaders.....	916.92	
01 22 23 00-0482	WK	4' x 8'	Trench Box With Up To 48" Spreaders.....	280.86	
01 22 23 00-0483	MO	4' x 8'	Trench Box With Up To 48" Spreaders.....	842.57	
01 22 23 00-0484	WK	6' x 8'	Trench Box With Up To 48" Spreaders.....	330.42	
01 22 23 00-0485	MO	6' x 8'	Trench Box With Up To 48" Spreaders.....	991.26	
01 22 23 00-0486	WK	8' x 8'	Trench Box With Up To 48" Spreaders.....	371.72	
01 22 23 00-0487	MO	8' x 8'	Trench Box With Up To 48" Spreaders.....	1,115.17	
01 22 23 00-0488	WK	4' x 10'	Trench Box With Up To 48" Spreaders.....	313.90	
01 22 23 00-0489	MO	4' x 10'	Trench Box With Up To 48" Spreaders.....	941.70	
01 22 23 00-0490	WK	6' x 10'	Trench Box With Up To 48" Spreaders.....	371.72	
01 22 23 00-0491	MO	6' x 10'	Trench Box With Up To 48" Spreaders.....	1,115.17	
01 22 23 00-0492	WK	8' x 10'	Trench Box With Up To 48" Spreaders.....	454.33	
01 22 23 00-0493	MO	8' x 10'	Trench Box With Up To 48" Spreaders.....	1,354.72	
01 22 23 00-0494	WK	4' x 12'	Trench Box With Up To 48" Spreaders.....	371.72	
01 22 23 00-0495	MO	4' x 12'	Trench Box With Up To 48" Spreaders.....	1,115.17	
01 22 23 00-0496	WK	6' x 12'	Trench Box With Up To 48" Spreaders.....	454.33	
01 22 23 00-0497	MO	6' x 12'	Trench Box With Up To 48" Spreaders.....	1,362.98	
01 22 23 00-0498	WK	8' x 12'	Trench Box With Up To 48" Spreaders.....	578.24	
01 22 23 00-0499	MO	8' x 12'	Trench Box With Up To 48" Spreaders.....	1,734.70	
01 22 23 00-0500	WK	4' x 14'	Trench Box With Up To 48" Spreaders.....	413.02	
01 22 23 00-0501	MO	4' x 14'	Trench Box With Up To 48" Spreaders.....	1,239.08	
01 22 23 00-0502	WK	6' x 14'	Trench Box With Up To 48" Spreaders.....	536.93	
01 22 23 00-0503	MO	6' x 14'	Trench Box With Up To 48" Spreaders.....	1,610.80	
01 22 23 00-0504	WK	8' x 14'	Trench Box With Up To 48" Spreaders.....	660.84	
01 22 23 00-0505	MO	8' x 14'	Trench Box With Up To 48" Spreaders.....	1,982.52	
01 22 23 00-0506	WK	4' x 16'	Trench Box With Up To 48" Spreaders.....	454.33	
01 22 23 00-0507	MO	4' x 16'	Trench Box With Up To 48" Spreaders.....	1,362.98	
01 22 23 00-0508	WK	6' x 16'	Trench Box With Up To 48" Spreaders.....	619.54	
01 22 23 00-0509	MO	6' x 16'	Trench Box With Up To 48" Spreaders.....	1,858.61	
01 22 23 00-0510	WK	8' x 16'	Trench Box With Up To 48" Spreaders.....	743.44	
01 22 23 00-0511	MO	8' x 16'	Trench Box With Up To 48" Spreaders.....	2,230.34	
01 22 23 00-0512	WK	4' x 20'	Trench Box With Up To 48" Spreaders.....	536.93	
01 22 23 00-0513	MO	4' x 20'	Trench Box With Up To 48" Spreaders.....	1,610.80	
01 22 23 00-0514	WK	6' x 20'	Trench Box With Up To 48" Spreaders.....	743.44	
01 22 23 00-0515	MO	6' x 20'	Trench Box With Up To 48" Spreaders.....	2,230.34	
01 22 23 00-0516	WK	8' x 20'	Trench Box With Up To 48" Spreaders.....	867.35	
01 22 23 00-0517	MO	8' x 20'	Trench Box With Up To 48" Spreaders.....	2,602.06	
01 22 23 00-0518	WK	4' x 24'	Trench Box With Up To 48" Spreaders.....	743.44	
01 22 23 00-0519	MO	4' x 24'	Trench Box With Up To 48" Spreaders.....	2,230.34	
01 22 23 00-0520	WK	6' x 24'	Trench Box With Up To 48" Spreaders.....	908.66	
01 22 23 00-0521	MO	6' x 24'	Trench Box With Up To 48" Spreaders.....	2,725.96	
01 22 23 00-0522	WK	8' x 24'	Trench Box With Up To 48" Spreaders.....	991.26	
01 22 23 00-0523	MO	8' x 24'	Trench Box With Up To 48" Spreaders.....	2,973.78	
01 22 23 00-0524	WK	For Spreaders >48" To 84", Add.....	24.78		
01 22 23 00-0525	MO	For Spreaders >48" To 84", Add.....	74.34		
01 22 23 00-0526	WK	For Spreaders >84" To 120", Add.....	148.69		
01 22 23 00-0527	MO	For Spreaders >84" To 120", Add.....	446.07		
01 22 23 00-0528	WK	For Spreaders >120", Add.....	313.90		
01 22 23 00-0529	MO	For Spreaders >120", Add.....	941.70		
01 22 23 00-0530	WK	8' x 4' Manhole Box.....	390.31		
01 22 23 00-0531	MO	8' x 4' Manhole Box.....	1,170.93		
01 22 23 00-0532	WK	8' x 8' Manhole Box.....	557.58		
01 22 23 00-0533	MO	8' x 8' Manhole Box.....	1,672.75		

01 22 23 00-0534 Trenchers (01 22 23 00-0265)

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

01 22 23 00-0535	DAY	4' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator.....	1,226.23		
		<i>For Equipment Without Operator, Deduct</i>	-854.61		
01 22 23 00-0536	WK	4' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator.....	5,538.86		
		<i>For Equipment Without Operator, Deduct</i>	-4,273.04		
01 22 23 00-0537	MO	4' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator.....	22,000.41		
		<i>For Equipment Without Operator, Deduct</i>	-18,516.51		
01 22 23 00-0538	DAY	5' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator.....	1,853.33		
		<i>For Equipment Without Operator, Deduct</i>	-854.61		
01 22 23 00-0539	WK	5' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator.....	7,652.42		
		<i>For Equipment Without Operator, Deduct</i>	-4,273.04		
01 22 23 00-0540	MO	5' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator.....	27,806.91		
		<i>For Equipment Without Operator, Deduct</i>	-18,516.51		

01 22 23 00-0541 Portable Sediment Tank (01 22 23 00-0265)

Note: Includes delivery to job site and pick-up when complete.

01 22 23 00-0542	WK	Portable Sediment Tank.....	199.52		
01 22 23 00-0543	MO	Portable Sediment Tank.....	585.24		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
-------	-----	-----	-------------	------------------------	----------------------

01 22 23 00-0544

Heavy Equipment (Ground Protection) Mats (01 22 23 00-0265)

Note: Rental price per mat. Excludes placement, moving, mobilization and demobilization. See CSI section 01 22 23 00-0265 for equipment for offloading/reloading from delivery vehicle, placing, and moving mats, 01 71 13 00-0001 for equipment delivery, pickup, mobilization and demobilization.

01 22 23 00-0545	DAY	14'	Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat	30.37	
01 22 23 00-0546	WK	14'	Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat	72.32	
01 22 23 00-0547	MO	14'	Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat	151.87	
01 22 23 00-0548	DAY	16'	Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat	31.89	
01 22 23 00-0549	WK	16'	Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat	75.94	
01 22 23 00-0550	MO	16'	Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat	159.46	
01 22 23 00-0551	Day	16'	Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat	25.82	
01 22 23 00-0552	WK	16'	Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat	60.75	
01 22 23 00-0553	MO	16'	Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat	129.09	
01 22 23 00-0554	Day	18'	Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat	28.86	
01 22 23 00-0555	WK	18'	Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat	68.34	
01 22 23 00-0556	MO	18'	Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat	144.28	
01 22 23 00-0557	Day	20'	Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat	31.89	
01 22 23 00-0558	WK	20'	Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat	75.94	
01 22 23 00-0559	MO	20'	Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat	159.46	
01 22 23 00-0560	Day	24'	Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat	34.93	
01 22 23 00-0561	WK	24'	Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat	83.17	
01 22 23 00-0562	MO	24'	Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat	174.65	
01 22 23 00-0563	Day	12'	Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	27.34	
01 22 23 00-0564	WK	12'	Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	75.94	
01 22 23 00-0565	MO	12'	Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	136.68	
01 22 23 00-0566	Day	16'	Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	31.89	
01 22 23 00-0567	WK	16'	Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	75.94	
01 22 23 00-0568	MO	16'	Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	159.46	
01 22 23 00-0569	Day	20'	Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	37.97	
01 22 23 00-0570	WK	20'	Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	83.53	
01 22 23 00-0571	MO	20'	Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	189.84	
01 22 23 00-0572	Day	24'	Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	41.00	
01 22 23 00-0573	WK	24'	Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	97.63	
01 22 23 00-0574	MO	24'	Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	205.02	
01 22 23 00-0575	Day	28'	Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	44.04	
01 22 23 00-0576	WK	28'	Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	104.86	
01 22 23 00-0577	MO	28'	Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	220.21	
01 22 23 00-0578	Day	30'	Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	45.56	
01 22 23 00-0579	WK	30'	Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	108.48	
01 22 23 00-0580	MO	30'	Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	227.80	
01 22 23 00-0581	Day	14'	Width x 8' Length, 2-3/4" Thick, Laminated Heavy Equipment Mat (Emtek™)	14.61	
01 22 23 00-0582	WK	14'	Width x 8' Length, 2-3/4" Thick, Laminated Heavy Equipment Mat (Emtek™)	36.52	
01 22 23 00-0583	MO	14'	Width x 8' Length, 2-3/4" Thick, Laminated Heavy Equipment Mat (Emtek™)	109.57	
01 22 23 00-0584	Day	14'	Width x 8' Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	17.46	
01 22 23 00-0585	WK	14'	Width x 8' Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	43.66	
01 22 23 00-0586	MO	14'	Width x 8' Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	130.99	
01 22 23 00-0587	Day	16'	Width x 8' Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	19.95	
01 22 23 00-0588	WK	16'	Width x 8' Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	49.86	
01 22 23 00-0589	MO	16'	Width x 8' Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	149.59	
01 22 23 00-0590	Day	14'	Width x 8' Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	21.26	
01 22 23 00-0591	WK	14'	Width x 8' Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	53.15	
01 22 23 00-0592	MO	14'	Width x 8' Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	159.46	
01 22 23 00-0593	Day	16'	Width x 8' Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	24.30	
01 22 23 00-0594	WK	16'	Width x 8' Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	60.75	
01 22 23 00-0595	MO	16'	Width x 8' Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	182.24	
01 22 23 00-0596	Day	16'	Width x 8' Length, 5-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	27.92	
01 22 23 00-0597	WK	16'	Width x 8' Length, 5-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	69.81	
01 22 23 00-0598	MO	16'	Width x 8' Length, 5-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	209.43	
01 22 23 00-0599	Day	24'	Width x 4' Length, 6" Thick, Laminated Heavy Equipment Mat (Emtek™)	21.48	
01 22 23 00-0600	WK	24'	Width x 4' Length, 6" Thick, Laminated Heavy Equipment Mat (Emtek™)	53.71	
01 22 23 00-0601	MO	24'	Width x 4' Length, 6" Thick, Laminated Heavy Equipment Mat (Emtek™)	161.13	
01 22 23 00-0602	Day	30'	Width x 4' Length, 6-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	29.09	
01 22 23 00-0603	WK	30'	Width x 4' Length, 6-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	72.72	
01 22 23 00-0604	MO	30'	Width x 4' Length, 6-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	218.16	
01 22 23 00-0605	Day	24'	Width x 4' Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	25.15	
01 22 23 00-0606	WK	24'	Width x 4' Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	62.87	
01 22 23 00-0607	MO	24'	Width x 4' Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	188.62	
01 22 23 00-0608	Day	40'	Width x 4' Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	41.94	
01 22 23 00-0609	WK	40'	Width x 4' Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	104.86	
01 22 23 00-0610	MO	40'	Width x 4' Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	314.58	
01 22 23 00-0611	Day	40'	Width x 4' Length, 8" Thick, Laminated Heavy Equipment Mat (Emtek™)	44.71	
01 22 23 00-0612	WK	40'	Width x 4' Length, 8" Thick, Laminated Heavy Equipment Mat (Emtek™)	111.78	
01 22 23 00-0613	MO	40'	Width x 4' Length, 8" Thick, Laminated Heavy Equipment Mat (Emtek™)	335.33	

01 22 23 00-0614

Electrical Equipment (01 22 23)

01 22 23 00-0615

Tripod Mounted Floodlights (01 22 23 00-0614)

Note: Includes delivery to job site and pick-up when complete.

01 22 23 00-0616	DAY	500	Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod	72.01	
01 22 23 00-0617	WK	500	Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod	170.36	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0618	MO		500 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod.....	360.04	
01 22 23 00-0619	DAY		1,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod.....	72.01	
01 22 23 00-0620	WK		1,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod.....	210.76	
01 22 23 00-0621	MO		1,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod.....	623.49	
01 22 23 00-0622	DAY		2,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod.....	80.79	
01 22 23 00-0623	WK		2,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod.....	219.54	
01 22 23 00-0624	MO		2,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod.....	535.67	
01 22 23 00-0625			Trailer Mounted Floodlights (01 22 23 00-0614)		
			Note: Includes delivery to job site and pick-up when complete. Excludes operator.		
01 22 23 00-0626	DAY		4 x 1,000 Watt Floodlights, 30' Telescoping Tower, Diesel Power Trailer Mounted Light Tower.....	201.97	
01 22 23 00-0627	WK		4 x 1,000 Watt Floodlights, 30' Telescoping Tower, Diesel Power Trailer Mounted Light Tower.....	447.86	
01 22 23 00-0628	MO		4 x 1,000 Watt Floodlights, 30' Telescoping Tower, Diesel Power Trailer Mounted Light Tower.....	965.96	
01 22 23 00-0629			Generator Sets (01 22 23 00-0614)		
01 22 23 00-0630			Portable, Gas Powered Generator Sets (01 22 23 00-0629)		
			Note: With 24 hour day-tank. Includes delivery to job site and pick-up when complete. Excludes cables, operator and fuel costs. See CSI section 01 22 23 00-0772 for reimbursable fuel fees.		
01 22 23 00-0631	DAY		3.6 KW, 8 HP Gas Powered Generator Set.....	51.09	
			Note: Fuel consumption: 100% load – 0.54 gallons per hour		
			For LP Or NG Gas, Add	6.39	
			For >160 To 320 Hours Usage Per Month, Add	25.55	
01 22 23 00-0632	WK		3.6 KW, 8 HP Gas Powered Generator Set.....	184.17	
			Note: Fuel consumption: 100% load – 0.54 gallons per hour		
			For LP Or NG Gas, Add	23.02	
01 22 23 00-0633	MO		3.6 KW, 8 HP Gas Powered Generator Set.....	510.93	
			Note: Fuel consumption: 100% load – 0.54 gallons per hour		
			For LP Or NG Gas, Add	63.87	
01 22 23 00-0634	DAY		5 KW, 11 HP Gas Powered Generator Set.....	72.48	
			Note: Fuel consumption: 100% load – 0.75 gallons per hour		
			For LP Or NG Gas, Add	9.06	
01 22 23 00-0635	WK		5 KW, 11 HP Gas Powered Generator Set.....	231.70	
			Note: Fuel consumption: 100% load – 0.75 gallons per hour		
			For LP Or NG Gas, Add	28.96	
01 22 23 00-0636	MO		5 KW, 11 HP Gas Powered Generator Set.....	528.75	
			Note: Fuel consumption: 100% load – 0.75 gallons per hour		
			For LP Or NG Gas, Add	66.09	
01 22 23 00-0637	DAY		6.5 KW, 13 HP Gas Powered Generator Set.....	92.68	
			Note: Fuel consumption: 100% load – 0.975 gallons per hour		
			For LP Or NG Gas, Add	11.59	
01 22 23 00-0638	WK		6.5 KW, 13 HP Gas Powered Generator Set.....	249.52	
			Note: Fuel consumption: 100% load – 0.975 gallons per hour		
			For LP Or NG Gas, Add	31.19	
01 22 23 00-0639	MO		6.5 KW, 13 HP Gas Powered Generator Set.....	689.16	
			Note: Fuel consumption: 100% load – 0.975 gallons per hour		
			For LP Or NG Gas, Add	86.15	
01 22 23 00-0640	DAY		10 KW, 18 HP Gas Powered Generator Set.....	103.37	
			Note: Fuel consumption: 100% load – 1.5 gallons per hour		
			For LP Or NG Gas, Add	12.92	
01 22 23 00-0641	WK		10 KW, 18 HP Gas Powered Generator Set.....	279.23	
			Note: Fuel consumption: 100% load – 1.5 gallons per hour		
			For LP Or NG Gas, Add	34.90	
01 22 23 00-0642	MO		10 KW, 18 HP Gas Powered Generator Set.....	802.04	
			Note: Fuel consumption: 100% load – 1.5 gallons per hour		
			For LP Or NG Gas, Add	100.26	
01 22 23 00-0643			Towable, Diesel Powered Generator Sets (01 22 23 00-0629)		
			Note: Includes 24 hour day-tank on sizes up to 180KW, 40 hour day-tank for sizes greater than 180KW To 300 KW and 1000 gallon for sizes greater than 300KW. Multi-voltage transformer unless stated otherwise, trailer mounted including sound attenuation and control panel. Excludes cables, operator and fuel costs. See CSI section 01 22 23 00-0772 for reimbursable fuel fees.		
01 22 23 00-0644	DAY		20 KW, 60 Hertz Towable Diesel Powered Generator Set.....	212.69	
			Note: Fuel consumption: 100% load – 1.6 gallons per hour, 75% load - 1.3 gallons per hour, 50% load - 0.9 gallons per hour.		
			For >8 To 16 Hours Usage Per Day, Add	106.35	
			For >16 To 24 Hours Usage Per Day, Add	212.69	
01 22 23 00-0645	WK		20 KW, 60 Hertz Towable Diesel Powered Generator Set.....	556.08	
			Note: Fuel consumption: 100% load – 1.6 gallons per hour, 75% load - 1.3 gallons per hour, 50% load - 0.9 gallons per hour.		
			For >40 To 80 Hours Usage Per Week, Add	278.04	
			For >80 Hours Usage Per Week, Add	556.08	
01 22 23 00-0646	MO		20 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,514.96	
			Note: Fuel consumption: 100% load – 1.6 gallons per hour, 75% load - 1.3 gallons per hour, 50% load - 0.9 gallons per hour.		
			For >160 To 320 Hours Usage Per Month, Add	757.48	
			For >320 Hours Usage Per Month, Add	1,514.96	
01 22 23 00-0647	DAY		30 KW, 60 Hertz Towable Diesel Powered Generator Set.....	361.30	
			Note: Fuel consumption: 100% load – 2.9 gallons per hour, 75% load - 2.4 gallons per hour, 50% load - 1.8 gallons per hour.		
			For >8 To 16 Hours Usage Per Day, Add	180.65	
			For >16 To 24 Hours Usage Per Day, Add	361.30	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0648 WK 30 KW, 60 Hertz Towable Diesel Powered Generator Set 1,072.26 Note: Fuel consumption: 100% load – 2.9 gallons per hour, 75% load - 2.4 gallons per hour, 50% load - 1.8 gallons per hour. <i>For >40 To 80 Hours Usage Per Week, Add</i> 536.13 <i>For >80 Hours Usage Per Week, Add</i> 1,072.26	1,072.26	
01 22 23 00-0649 MO 30 KW, 60 Hertz Towable Diesel Powered Generator Set 2,214.45 Note: Fuel consumption: 100% load – 2.9 gallons per hour, 75% load - 2.4 gallons per hour, 50% load - 1.8 gallons per hour. <i>For >160 To 320 Hours Usage Per Month, Add</i> 1,107.23 <i>For >320 Hours Usage Per Month, Add</i> 2,214.45	2,214.45	
01 22 23 00-0650 DAY 40.0 KW, 60 Hertz Towable Diesel Powered Generator Set 396.27 Note: Fuel consumption: 100% load - 4.0 gallons per hour, 75% load - 3.2 gallons per hour, 50% load - 2.3 gallons per hour. <i>For >8 To 16 Hours Usage Per Day, Add</i> 198.14 <i>For >16 To 24 Hours Usage Per Day, Add</i> 396.27	396.27	
01 22 23 00-0651 WK 40.0 KW, 60 Hertz Towable Diesel Powered Generator Set 1,107.22 Note: Fuel consumption: 100% load - 4.0 gallons per hour, 75% load - 3.2 gallons per hour, 50% load - 2.3 gallons per hour. <i>For >40 To 80 Hours Usage Per Week, Add</i> 553.61 <i>For >80 Hours Usage Per Week, Add</i> 1,107.22	1,107.22	
01 22 23 00-0652 MO 40.0 KW, 60 Hertz Towable Diesel Powered Generator Set 2,447.55 Note: Fuel consumption: 100% load - 4.0 gallons per hour, 75% load - 3.2 gallons per hour, 50% load - 2.3 gallons per hour. <i>For >160 To 320 Hours Usage Per Month, Add</i> 1,223.78 <i>For >320 Hours Usage Per Month, Add</i> 2,447.55	2,447.55	
01 22 23 00-0653 DAY 55.0 KW, 60 Hertz Towable Diesel Powered Generator Set 425.41 Note: Fuel consumption: 100% load – 4.8 gallons per hour, 75% load - 3.8 gallons per hour, 50% load - 2.9 gallons per hour. <i>For >8 To 16 Hours Usage Per Day, Add</i> 212.71 <i>For >16 To 24 Hours Usage Per Day, Add</i> 425.41	425.41	
01 22 23 00-0654 WK 55.0 KW, 60 Hertz Towable Diesel Powered Generator Set 1,165.50 Note: Fuel consumption: 100% load – 4.8 gallons per hour, 75% load - 3.8 gallons per hour, 50% load - 2.9 gallons per hour. <i>For >40 To 80 Hours Usage Per Week, Add</i> 582.75 <i>For >80 Hours Usage Per Week, Add</i> 1,165.50	1,165.50	
01 22 23 00-0655 MO 55.0 KW, 60 Hertz Towable Diesel Powered Generator Set 2,797.20 Note: Fuel consumption: 100% load – 4.8 gallons per hour, 75% load - 3.8 gallons per hour, 50% load - 2.9 gallons per hour. <i>For >160 To 320 Hours Usage Per Month, Add</i> 1,398.60 <i>For >320 Hours Usage Per Month, Add</i> 2,797.20	2,797.20	
01 22 23 00-0656 DAY 70.0 KW, 60 Hertz Towable Diesel Powered Generator Set 466.20 Note: Fuel consumption: 100% load – 5.7 gallons per hour, 75% load - 4.3 gallons per hour, 50% load - 3.2 gallons per hour. <i>For >8 To 16 Hours Usage Per Day, Add</i> 233.10 <i>For >16 To 24 Hours Usage Per Day, Add</i> 466.20	466.20	
01 22 23 00-0657 WK 70.0 KW, 60 Hertz Towable Diesel Powered Generator Set 1,322.84 Note: Fuel consumption: 100% load – 5.7 gallons per hour, 75% load - 4.3 gallons per hour, 50% load - 3.2 gallons per hour. <i>For >40 To 80 Hours Usage Per Week, Add</i> 661.42 <i>For >80 Hours Usage Per Week, Add</i> 1,322.84	1,322.84	
01 22 23 00-0658 MO 70.0 KW, 60 Hertz Towable Diesel Powered Generator Set 3,146.85 Note: Fuel consumption: 100% load – 5.7 gallons per hour, 75% load - 4.3 gallons per hour, 50% load - 3.2 gallons per hour. <i>For >160 To 320 Hours Usage Per Month, Add</i> 1,573.43 <i>For >320 Hours Usage Per Month, Add</i> 3,146.85	3,146.85	
01 22 23 00-0659 DAY 80.0 KW, 60 Hertz Towable Diesel Powered Generator Set 524.48 Note: Fuel consumption: 100% load – 6.5 gallons per hour, 75% load - 4.9 gallons per hour, 50% load - 3.6 gallons per hour. <i>For >8 To 16 Hours Usage Per Day, Add</i> 262.24 <i>For >16 To 24 Hours Usage Per Day, Add</i> 524.48	524.48	
01 22 23 00-0660 WK 80.0 KW, 60 Hertz Towable Diesel Powered Generator Set 1,398.60 Note: Fuel consumption: 100% load – 6.5 gallons per hour, 75% load - 4.9 gallons per hour, 50% load - 3.6 gallons per hour. <i>For >40 To 80 Hours Usage Per Week, Add</i> 699.30 <i>For >80 Hours Usage Per Week, Add</i> 1,398.60	1,398.60	
01 22 23 00-0661 MO 80.0 KW, 60 Hertz Towable Diesel Powered Generator Set 3,496.50 Note: Fuel consumption: 100% load – 6.5 gallons per hour, 75% load - 4.9 gallons per hour, 50% load - 3.6 gallons per hour. <i>For >160 To 320 Hours Usage Per Month, Add</i> 1,748.25 <i>For >320 Hours Usage Per Month, Add</i> 3,496.50	3,496.50	
01 22 23 00-0662 DAY 100.0 KW, 60 Hertz Towable Diesel Powered Generator Set 541.96 Note: Fuel consumption: 100% load - 7.4 gallons per hour, 75% load - 5.8 gallons per hour, 50% load - 4.1 gallons per hour. <i>For >8 To 16 Hours Usage Per Day, Add</i> 270.98 <i>For >16 To 24 Hours Usage Per Day, Add</i> 541.96	541.96	
01 22 23 00-0663 WK 100.0 KW, 60 Hertz Towable Diesel Powered Generator Set 1,456.88 Note: Fuel consumption: 100% load - 7.4 gallons per hour, 75% load - 5.8 gallons per hour, 50% load - 4.1 gallons per hour. <i>For >40 To 80 Hours Usage Per Week, Add</i> 728.44 <i>For >80 Hours Usage Per Week, Add</i> 1,456.88	1,456.88	
01 22 23 00-0664 MO 100.0 KW, 60 Hertz Towable Diesel Powered Generator Set 3,962.70 Note: Fuel consumption: 100% load - 7.4 gallons per hour, 75% load - 5.8 gallons per hour, 50% load - 4.1 gallons per hour. <i>For >160 To 320 Hours Usage Per Month, Add</i> 1,981.35 <i>For >320 Hours Usage Per Month, Add</i> 3,962.70	3,962.70	

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



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0665	DAY	120.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	611.89		
		Note: Fuel consumption: 100% load - 8.7 gallons per hour, 75% load - 6.8 gallons per hour, 50% load - 4.8 gallons per hour.			
		<i>For >8 To 16 Hours Usage Per Day, Add</i>	305.95		
		<i>For >16 To 24 Hours Usage Per Day, Add</i>	611.89		
01 22 23 00-0666	WK	120.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,689.98		
		Note: Fuel consumption: 100% load - 8.7 gallons per hour, 75% load - 6.8 gallons per hour, 50% load - 4.8 gallons per hour.			
		<i>For >40 To 80 Hours Usage Per Week, Add</i>	844.99		
		<i>For >80 Hours Usage Per Week, Add</i>	1,689.98		
01 22 23 00-0667	MO	120.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	4,545.45		
		Note: Fuel consumption: 100% load - 8.7 gallons per hour, 75% load - 6.8 gallons per hour, 50% load - 4.8 gallons per hour.			
		<i>For >160 To 320 Hours Usage Per Month, Add</i>	2,272.73		
		<i>For >320 Hours Usage Per Month, Add</i>	4,545.45		
01 22 23 00-0668	DAY	140.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	641.02		
		Note: Fuel consumption: 100% load - 10.2 gallons per hour, 75% load - 7.9 gallons per hour, 50% load - 5.6 gallons per hour.			
		<i>For >8 To 16 Hours Usage Per Day, Add</i>	320.51		
		<i>For >16 To 24 Hours Usage Per Day, Add</i>	641.02		
01 22 23 00-0669	WK	140.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,777.39		
		Note: Fuel consumption: 100% load - 10.2 gallons per hour, 75% load - 7.9 gallons per hour, 50% load - 5.6 gallons per hour.			
		<i>For >40 To 80 Hours Usage Per Week, Add</i>	888.70		
		<i>For >80 Hours Usage Per Week, Add</i>	1,777.39		
01 22 23 00-0670	MO	140.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	5,011.65		
		Note: Fuel consumption: 100% load - 10.2 gallons per hour, 75% load - 7.9 gallons per hour, 50% load - 5.6 gallons per hour.			
		<i>For >160 To 320 Hours Usage Per Month, Add</i>	2,505.83		
		<i>For >320 Hours Usage Per Month, Add</i>	5,011.65		
01 22 23 00-0671	DAY	150.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	670.16		
		Note: Fuel consumption: 100% load - 10.9 gallons per hour, 75% load - 8.4 gallons per hour, 50% load - 5.9 gallons per hour.			
		<i>For >8 To 16 Hours Usage Per Day, Add</i>	335.08		
		<i>For >16 To 24 Hours Usage Per Day, Add</i>	670.16		
01 22 23 00-0672	WK	150.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,923.08		
		Note: Fuel consumption: 100% load - 10.9 gallons per hour, 75% load - 8.4 gallons per hour, 50% load - 5.9 gallons per hour.			
		<i>For >40 To 80 Hours Usage Per Week, Add</i>	961.54		
		<i>For >80 Hours Usage Per Week, Add</i>	1,923.08		
01 22 23 00-0673	MO	150.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	5,244.75		
		Note: Fuel consumption: 100% load - 10.9 gallons per hour, 75% load - 8.4 gallons per hour, 50% load - 5.9 gallons per hour.			
		<i>For >160 To 320 Hours Usage Per Month, Add</i>	2,622.38		
		<i>For >320 Hours Usage Per Month, Add</i>	5,244.75		
01 22 23 00-0674	DAY	160.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	699.30		
		Note: Fuel consumption: 100% load - 11.6 gallons per hour, 75% load - 8.9 gallons per hour, 50% load - 6.2 gallons per hour.			
		<i>For >8 To 16 Hours Usage Per Day, Add</i>	349.65		
		<i>For >16 To 24 Hours Usage Per Day, Add</i>	699.30		
01 22 23 00-0675	WK	160.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	2,039.62		
		Note: Fuel consumption: 100% load - 11.6 gallons per hour, 75% load - 8.9 gallons per hour, 50% load - 6.2 gallons per hour.			
		<i>For >40 To 80 Hours Usage Per Week, Add</i>	1,019.81		
		<i>For >80 Hours Usage Per Week, Add</i>	2,039.62		
01 22 23 00-0676	MO	160.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	5,477.85		
		Note: Fuel consumption: 100% load - 11.6 gallons per hour, 75% load - 8.9 gallons per hour, 50% load - 6.2 gallons per hour.			
		<i>For >160 To 320 Hours Usage Per Month, Add</i>	2,738.93		
		<i>For >320 Hours Usage Per Month, Add</i>	5,477.85		
01 22 23 00-0677	DAY	175.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	699.30		
		Note: Fuel consumption: 100% load - 12.7 gallons per hour, 75% load - 9.7 gallons per hour, 50% load - 6.8 gallons per hour.			
		<i>For >8 To 16 Hours Usage Per Day, Add</i>	349.65		
		<i>For >16 To 24 Hours Usage Per Day, Add</i>	699.30		
01 22 23 00-0678	WK	175.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	2,039.62		
		Note: Fuel consumption: 100% load - 12.7 gallons per hour, 75% load - 9.7 gallons per hour, 50% load - 6.8 gallons per hour.			
		<i>For >40 To 80 Hours Usage Per Week, Add</i>	1,019.81		
		<i>For >80 Hours Usage Per Week, Add</i>	2,039.62		
01 22 23 00-0679	MO	175.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	5,477.85		
		Note: Fuel consumption: 100% load - 12.7 gallons per hour, 75% load - 9.7 gallons per hour, 50% load - 6.8 gallons per hour.			
		<i>For >160 To 320 Hours Usage Per Month, Add</i>	2,738.93		
		<i>For >320 Hours Usage Per Month, Add</i>	5,477.85		
01 22 23 00-0680	DAY	200.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	961.54		
		Note: Fuel consumption: 100% load - 14.4 gallons per hour, 75% load - 11.0 gallons per hour, 50% load - 7.7 gallons per hour.			
		<i>For >8 To 16 Hours Usage Per Day, Add</i>	480.77		
		<i>For >16 To 24 Hours Usage Per Day, Add</i>	961.54		
01 22 23 00-0681	WK	200.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	2,389.28		
		Note: Fuel consumption: 100% load - 14.4 gallons per hour, 75% load - 11.0 gallons per hour, 50% load - 7.7 gallons per hour.			
		<i>For >40 To 80 Hours Usage Per Week, Add</i>	1,194.64		
		<i>For >80 Hours Usage Per Week, Add</i>	2,389.28		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0682 MO 200.0 KW, 60 Hertz Towable Diesel Powered Generator Set .....6,993.00 Note: Fuel consumption: 100% load - 14.4 gallons per hour, 75% load - 11.0 gallons per hour, 50% load - 7.7 gallons per hour. <i>For >160 To 320 Hours Usage Per Month, Add</i> 3,496.50 <i>For >320 Hours Usage Per Month, Add</i> 6,993.00		
01 22 23 00-0683 DAY 250.0 KW, 60 Hertz Towable Diesel Powered Generator Set .....1,019.81 Note: Fuel consumption: 100% load - 19.8 gallons per hour, 75% load - 12.3 gallons per hour, 50% load - 8.6 gallons per hour. <i>For >8 To 16 Hours Usage Per Day, Add</i> 509.91 <i>For >16 To 24 Hours Usage Per Day, Add</i> 1,019.81		
01 22 23 00-0684 WK 250.0 KW, 60 Hertz Towable Diesel Powered Generator Set .....2,447.55 Note: Fuel consumption: 100% load - 19.8 gallons per hour, 75% load - 12.3 gallons per hour, 50% load - 8.6 gallons per hour. <i>For >40 To 80 Hours Usage Per Week, Add</i> 1,223.78 <i>For >80 Hours Usage Per Week, Add</i> 2,447.55		
01 22 23 00-0685 MO 250.0 KW, 60 Hertz Towable Diesel Powered Generator Set .....7,226.10 Note: Fuel consumption: 100% load - 19.8 gallons per hour, 75% load - 12.3 gallons per hour, 50% load - 8.6 gallons per hour. <i>For >160 To 320 Hours Usage Per Month, Add</i> 3,613.05 <i>For >320 Hours Usage Per Month, Add</i> 7,226.10		
01 22 23 00-0686 DAY 275.0 KW, 60 Hertz Towable Diesel Powered Generator Set .....1,078.09 Note: Fuel consumption: 100% load - 18.0 gallons per hour, 75% load - 13.6 gallons per hour, 50% load - 9.5 gallons per hour. <i>For >8 To 16 Hours Usage Per Day, Add</i> 539.05 <i>For >16 To 24 Hours Usage Per Day, Add</i> 1,078.09		
01 22 23 00-0687 WK 275.0 KW, 60 Hertz Towable Diesel Powered Generator Set .....2,505.82 Note: Fuel consumption: 100% load - 18.0 gallons per hour, 75% load - 13.6 gallons per hour, 50% load - 9.5 gallons per hour. <i>For >40 To 80 Hours Usage Per Week, Add</i> 1,252.91 <i>For >80 Hours Usage Per Week, Add</i> 2,505.82		
01 22 23 00-0688 MO 275.0 KW, 60 Hertz Towable Diesel Powered Generator Set .....7,459.20 Note: Fuel consumption: 100% load - 18.0 gallons per hour, 75% load - 13.6 gallons per hour, 50% load - 9.5 gallons per hour. <i>For >160 To 320 Hours Usage Per Month, Add</i> 3,729.60 <i>For >320 Hours Usage Per Month, Add</i> 7,459.20		
01 22 23 00-0689 DAY 300.0 KW, 60 Hertz Towable Diesel Powered Generator Set .....1,113.05 Note: Fuel consumption: 100% load - 21.5 gallons per hour, 75% load - 16.1 gallons per hour, 50% load - 11.3 gallons per hour. <i>For >8 To 16 Hours Usage Per Day, Add</i> 556.53 <i>For >16 To 24 Hours Usage Per Day, Add</i> 1,113.05		
01 22 23 00-0690 WK 300.0 KW, 60 Hertz Towable Diesel Powered Generator Set .....2,680.65 Note: Fuel consumption: 100% load - 21.5 gallons per hour, 75% load - 16.1 gallons per hour, 50% load - 11.3 gallons per hour. <i>For >40 To 80 Hours Usage Per Week, Add</i> 1,340.33 <i>For >80 Hours Usage Per Week, Add</i> 2,680.65		
01 22 23 00-0691 MO 300.0 KW, 60 Hertz Towable Diesel Powered Generator Set .....7,925.40 Note: Fuel consumption: 100% load - 21.5 gallons per hour, 75% load - 16.1 gallons per hour, 50% load - 11.3 gallons per hour. <i>For >160 To 320 Hours Usage Per Month, Add</i> 3,962.70 <i>For >320 Hours Usage Per Month, Add</i> 7,925.40		
01 22 23 00-0692 DAY 350.0 KW, 60 Hertz Towable Diesel Powered Generator Set .....1,165.50 Note: Fuel consumption: 100% load - 25.1 gallons per hour, 75% load - 18.7 gallons per hour, 50% load - 13.1 gallons per hour. <i>For >8 To 16 Hours Usage Per Day, Add</i> 582.75 <i>For >16 To 24 Hours Usage Per Day, Add</i> 1,165.50		
01 22 23 00-0693 WK 350.0 KW, 60 Hertz Towable Diesel Powered Generator Set .....3,030.30 Note: Fuel consumption: 100% load - 25.1 gallons per hour, 75% load - 18.7 gallons per hour, 50% load - 13.1 gallons per hour. <i>For >40 To 80 Hours Usage Per Week, Add</i> 1,515.15 <i>For >80 Hours Usage Per Week, Add</i> 3,030.30		
01 22 23 00-0694 MO 350.0 KW, 60 Hertz Towable Diesel Powered Generator Set .....8,741.25 Note: Fuel consumption: 100% load - 25.1 gallons per hour, 75% load - 18.7 gallons per hour, 50% load - 13.1 gallons per hour. <i>For >160 To 320 Hours Usage Per Month, Add</i> 4,370.63 <i>For >320 Hours Usage Per Month, Add</i> 8,741.25		
01 22 23 00-0695 DAY 400.0 KW, 60 Hertz Towable Diesel Powered Generator Set .....2,108.92 Note: Fuel consumption: 100% load - 28.6 gallons per hour, 75% load - 21.3 gallons per hour, 50% load - 14.9 gallons per hour. <i>For >8 To 16 Hours Usage Per Day, Add</i> 1,054.46 <i>For >16 To 24 Hours Usage Per Day, Add</i> 2,108.92		
01 22 23 00-0696 WK 400.0 KW, 60 Hertz Towable Diesel Powered Generator Set .....5,452.56 Note: Fuel consumption: 100% load - 28.6 gallons per hour, 75% load - 21.3 gallons per hour, 50% load - 14.9 gallons per hour. <i>For >40 To 80 Hours Usage Per Week, Add</i> 2,726.28 <i>For >80 Hours Usage Per Week, Add</i> 5,452.56		
01 22 23 00-0697 MO 400.0 KW, 60 Hertz Towable Diesel Powered Generator Set .....14,420.00 Note: Fuel consumption: 100% load - 28.6 gallons per hour, 75% load - 21.3 gallons per hour, 50% load - 14.9 gallons per hour. <i>For >160 To 320 Hours Usage Per Month, Add</i> 7,210.00 <i>For >320 Hours Usage Per Month, Add</i> 14,420.00		
01 22 23 00-0698 DAY 500.0 KW, 60 Hertz Container Diesel Powered Generator Set .....2,703.75 Note: Fuel consumption: 100% load - 35.7 gallons per hour, 75% load - 26.4 gallons per hour, 50% load - 18.5 gallons per hour. <i>For >8 To 16 Hours Usage Per Day, Add</i> 1,351.88 <i>For >16 To 24 Hours Usage Per Day, Add</i> 2,703.75		

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



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0699	WK		500.0 KW, 60 Hertz Container Diesel Powered Generator Set.....	7,029.75	
			Note: Fuel consumption: 100% load - 35.7 gallons per hour, 75% load - 26.4 gallons per hour, 50% load - 18.5 gallons per hour.		
			For >40 To 80 Hours Usage Per Week, Add	3,514.88	
			For >80 Hours Usage Per Week, Add	7,029.75	
01 22 23 00-0700	MO		500.0 KW, 60 Hertz Container Diesel Powered Generator Set.....	16,222.50	
			Note: Fuel consumption: 100% load - 35.7 gallons per hour, 75% load - 26.4 gallons per hour, 50% load - 18.5 gallons per hour.		
			For >160 To 320 Hours Usage Per Month, Add	8,111.25	
			For >320 Hours Usage Per Month, Add	16,222.50	
01 22 23 00-0701	DAY		640.0 KW, 60 Hertz Container Diesel Powered Generator Set.....	3,343.64	
			Note: Fuel consumption: 100% load - 45.6 gallons per hour, 75% load - 33.5 gallons per hour, 50% load - 20.8 gallons per hour.		
			For >8 To 16 Hours Usage Per Day, Add	1,671.82	
			For >16 To 24 Hours Usage Per Day, Add	3,343.64	
01 22 23 00-0702	WK		640.0 KW, 60 Hertz Container Diesel Powered Generator Set.....	8,832.25	
			Note: Fuel consumption: 100% load - 45.6 gallons per hour, 75% load - 33.5 gallons per hour, 50% load - 20.8 gallons per hour.		
			For >40 To 80 Hours Usage Per Week, Add	4,416.13	
			For >80 Hours Usage Per Week, Add	8,832.25	
01 22 23 00-0703	MO		640.0 KW, 60 Hertz Container Diesel Powered Generator Set.....	21,630.00	
			Note: Fuel consumption: 100% load - 45.6 gallons per hour, 75% load - 33.5 gallons per hour, 50% load - 20.8 gallons per hour.		
			For >160 To 320 Hours Usage Per Month, Add	10,815.00	
			For >320 Hours Usage Per Month, Add	21,630.00	
01 22 23 00-0704	DAY		750.0 KW, 60 Hertz Container Diesel Powered Generator Set.....	3,614.01	
			Note: Fuel consumption: 100% load - 53.4 gallons per hour, 75% load - 39.3 gallons per hour, 50% load - 24.4 gallons per hour.		
			For >8 To 16 Hours Usage Per Day, Add	1,807.01	
			For >16 To 24 Hours Usage Per Day, Add	3,614.01	
01 22 23 00-0705	WK		750.0 KW, 60 Hertz Container Diesel Powered Generator Set.....	8,327.55	
			Note: Fuel consumption: 100% load - 53.4 gallons per hour, 75% load - 39.3 gallons per hour, 50% load - 24.4 gallons per hour.		
			For >40 To 80 Hours Usage Per Week, Add	4,163.78	
			For >80 Hours Usage Per Week, Add	8,327.55	
01 22 23 00-0706	MO		750.0 KW, 60 Hertz Container Diesel Powered Generator Set.....	24,982.65	
			Note: Fuel consumption: 100% load - 53.4 gallons per hour, 75% load - 39.3 gallons per hour, 50% load - 24.4 gallons per hour.		
			For >160 To 320 Hours Usage Per Month, Add	12,491.33	
			For >320 Hours Usage Per Month, Add	24,982.65	
01 22 23 00-0707	EA		Up To 300 KW Generator Set Delivery, Set-Up, Testing And Pick-up.....	926.18	
01 22 23 00-0708	EA		350 To 750 KW Generator Set Delivery, Set-Up, Testing And Pick-up.....	1,502.72	
01 22 23 00-0709			Cablings For Generator Sets (01 22 23 00-0629)		
			Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0710	DAY		#1 Banded Cable, 50' With Camlock Ends For Generator Set.....	25.64	
01 22 23 00-0711	WK		#1 Banded Cable, 50' With Camlock Ends For Generator Set.....	44.87	
01 22 23 00-0712	MO		#1 Banded Cable, 50' With Camlock Ends For Generator Set.....	134.62	
01 22 23 00-0713	DAY		50', 4/0 Cable With Camlock Ends For Generator Set.....	12.82	
01 22 23 00-0714	WK		50', 4/0 Cable With Camlock Ends For Generator Set.....	37.30	
01 22 23 00-0715	MO		50', 4/0 Cable With Camlock Ends For Generator Set.....	103.73	
01 22 23 00-0716			Generator Accessories (01 22 23 00-0629)		
			Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0717			Step Down Transformer (01 22 23 00-0716)		
01 22 23 00-0718	WK		75 KVA, 480-208 Volt, Step Down Transformer.....	343.82	
01 22 23 00-0719	MO		75 KVA, 480-208 Volt, Step Down Transformer.....	961.54	
01 22 23 00-0720	WK		150 KVA, 480-208 Volt, Step Down Transformer.....	551.28	
01 22 23 00-0721	MO		150 KVA, 480-208 Volt, Step Down Transformer.....	1,652.68	
01 22 23 00-0722	WK		225 KVA, 480-208 Volt, Step Down Transformer.....	734.26	
01 22 23 00-0723	MO		225 KVA, 480-208 Volt, Step Down Transformer.....	2,202.80	
01 22 23 00-0724	WK		500 KVA, 480-208 Volt, Step Down Transformer.....	874.12	
01 22 23 00-0725	MO		500 KVA, 480-208 Volt, Step Down Transformer.....	2,622.38	
01 22 23 00-0726	WK		1,000 KVA, 4,160/480 Volt, Step Down Transformer.....	1,305.36	
01 22 23 00-0727	MO		1,000 KVA, 4,160/480 Volt, Step Down Transformer.....	3,898.60	
01 22 23 00-0728	WK		1,500 KVA, 4,160/480 Volt, Step Down Transformer.....	2,121.21	
01 22 23 00-0729	MO		1,500 KVA, 4,160/480 Volt, Step Down Transformer.....	6,357.80	
01 22 23 00-0730	WK		2,500 KVA, 480-13,800/4,160 Volt, Step Down Transformer.....	2,447.55	
01 22 23 00-0731	MO		2,500 KVA, 480-13,800/4,160 Volt, Step Down Transformer.....	7,342.65	
01 22 23 00-0732			Portable Panel (01 22 23 00-0716)		
01 22 23 00-0733	WK		100 Amperes, Portable Panel.....	273.89	
01 22 23 00-0734	MO		100 Amperes, Portable Panel.....	699.30	
01 22 23 00-0735	WK		200 Amperes, Portable Panel.....	327.51	
01 22 23 00-0736	MO		200 Amperes, Portable Panel.....	874.12	
01 22 23 00-0737	WK		400 Amperes, Portable Panel.....	349.65	
01 22 23 00-0738	MO		400 Amperes, Portable Panel.....	1,048.95	
01 22 23 00-0739			Portable Fusible Disconnect (01 22 23 00-0716)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0740 WK 100 - 200 Amperes, Portable Fusible Disconnect.....	122.38	
01 22 23 00-0741 MO 100 - 200 Amperes, Portable Fusible Disconnect.....	367.13	
01 22 23 00-0742 WK 300 - 400 Amperes, Portable Fusible Disconnect.....	244.76	
01 22 23 00-0743 MO 300 - 400 Amperes, Portable Fusible Disconnect.....	734.26	
01 22 23 00-0744 Portable Transfer Switch (01 22 23 00-0716)		
01 22 23 00-0745 WK 100 Amperes, 480 Volt, Portable Transfer Switch	367.13	
01 22 23 00-0746 MO 100 Amperes, 480 Volt, Portable Transfer Switch	1,101.40	
01 22 23 00-0747 WK 200 Amperes, 480 Volt, Portable Transfer Switch	489.51	
01 22 23 00-0748 MO 200 Amperes, 480 Volt, Portable Transfer Switch	1,468.53	
01 22 23 00-0749 WK 400 Amperes, 480 Volt, Portable Transfer Switch	611.89	
01 22 23 00-0750 MO 400 Amperes, 480 Volt, Portable Transfer Switch	1,835.66	
01 22 23 00-0751 Resistive Loadbanks For Generator Sets (01 22 23 00-0629)		
Note: Includes delivery to job site and pick-up when complete. See CSI section 01 22 23 00-0772 for reimbursable fuel fees.		
01 22 23 00-0752 DAY 100 KW A/C Resistive Loadbank.....	358.17	
01 22 23 00-0753 WK 100 KW A/C Resistive Loadbank.....	681.23	
01 22 23 00-0754 MO 100 KW A/C Resistive Loadbank.....	1,861.08	
01 22 23 00-0755 DAY 650 KW A/C Resistive Loadbank.....	765.04	
01 22 23 00-0756 WK 650 KW A/C Resistive Loadbank.....	2,045.91	
01 22 23 00-0757 MO 650 KW A/C Resistive Loadbank.....	5,216.21	
01 22 23 00-0758 Sub-Distribution Panels (Spider Box) For Generator Sets (01 22 23 00-0629)		
Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0759 DAY 50 Amperes, 240 Volt, Single Phase, Sub-Distribution Panel (Spider Box).....	62.94	
01 22 23 00-0760 WK 50 Amperes, 240 Volt, Single Phase, Sub-Distribution Panel (Spider Box).....	163.17	
01 22 23 00-0761 MO 50 Amperes, 240 Volt, Single Phase, Sub-Distribution Panel (Spider Box).....	460.37	
01 22 23 00-0762 Portable Distribution Panels For Generator Sets (01 22 23 00-0629)		
Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0763 DAY 200 Amperes, 208 Volt, 3 Phase, Portable Spider Box Feeder Panel.....	139.86	
01 22 23 00-0764 WK 200 Amperes, 208 Volt, 3 Phase, Portable Spider Box Feeder Panel.....	378.79	
01 22 23 00-0765 MO 200 Amperes, 208 Volt, 3 Phase, Portable Spider Box Feeder Panel.....	1,060.60	
01 22 23 00-0766 DAY 100 Amperes, 208 Volt, 3 Phase, Portable Quad Box Panel.....	114.22	
01 22 23 00-0767 WK 100 Amperes, 208 Volt, 3 Phase, Portable Quad Box Panel.....	297.20	
01 22 23 00-0768 MO 100 Amperes, 208 Volt, 3 Phase, Portable Quad Box Panel.....	844.99	
01 22 23 00-0769 DAY 200 Amperes, 208 Volt, 3 Phase, Portable Quad Box Panel.....	145.69	
01 22 23 00-0770 WK 200 Amperes, 208 Volt, 3 Phase, Portable Quad Box Panel.....	367.13	
01 22 23 00-0771 MO 200 Amperes, 208 Volt, 3 Phase, Portable Quad Box Panel.....	996.50	
01 22 23 00-0772 Fuel Reimbursement For Generators (01 22 23 00-0629)		
01 22 23 00-0773 EA Fuel Reimbursement For Generators.....	1.00	
Note: Purchases made by the contractor for fuel will be reimbursed to the Contractor at the actual cost of the purchase, without mark-up, for which a receipt or bill is received. The Adjustment Factor applied to Reimbursable Fees will be 1.0000. The base cost of the purchase is \$1.00, quantity will adjust cost to actual purchase cost; i.e., quantity of 125 = \$125.00 purchase. If there are multiple purchases, each one shall be listed separately with a comment in the "note" block to identify the purchase.		
01 22 23 00-0774 Portable Floor Drying Fans (01 22 23 00-0614)		
Note: Includes delivery to job site and pick-up when complete. Excludes operator.		
01 22 23 00-0775 DAY 2,250 CFM Portable Floor Drying Fan	31.35	
01 22 23 00-0776 WK 2,250 CFM Portable Floor Drying Fan	144.97	
01 22 23 00-0777 MO 2,250 CFM Portable Floor Drying Fan	479.98	
01 22 23 00-0778 Welding Machines (01 22 23 00-0614)		
Note: Includes delivery to job site and pick-up when complete. Excludes operator.		
01 22 23 00-0779 CC/CV Inverter Welder (01 22 23 00-0778)		
Note: Excludes cables, operator and fuel costs. See CSI section 01 22 23 00-0772 for reimbursable fuel fees.		
01 22 23 00-0780 DAY 250 Amperes, CC Inverter Welder.....	43.29	
01 22 23 00-0781 WK 250 Amperes, CC Inverter Welder.....	94.30	
01 22 23 00-0782 MO 250 Amperes, CC Inverter Welder.....	285.99	
01 22 23 00-0783 DAY 300 Amperes, CC/CV Inverter Welder.....	49.47	
01 22 23 00-0784 WK 300 Amperes, CC/CV Inverter Welder.....	131.40	
01 22 23 00-0785 MO 300 Amperes, CC/CV Inverter Welder.....	347.83	
01 22 23 00-0786 DAY 350 Amperes, CC/CV Inverter Welder.....	51.01	
01 22 23 00-0787 WK 350 Amperes, CC/CV Inverter Welder.....	134.49	
01 22 23 00-0788 MO 350 Amperes, CC/CV Inverter Welder.....	378.75	
01 22 23 00-0789 MIG Welder (01 22 23 00-0778)		
Note: Excludes cables, operator and fuel costs. See CSI section 01 22 23 00-0772 for reimbursable fuel fees.		
01 22 23 00-0790 DAY 115 Volt MIG Welder	74.20	
01 22 23 00-0791 WK 115 Volt MIG Welder	193.24	

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



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
------------------------------	---------------------------	-------------------------

01 22 23 00-0792 MO 115 Volt MIG Welder.....525.61

01 22 23 00-0793 Diesel Powered Towable Welding Machines (01 22 23 00-0778)

Note: Includes delivery to job site and pick-up when complete. Excludes operator.

01 22 23 00-0794 DAY 250 To 299 Amperes, Diesel Powered Towable Welding Machine139.13
 01 22 23 00-0795 WK 250 To 299 Amperes, Diesel Powered Towable Welding Machine340.10
 01 22 23 00-0796 MO 250 To 299 Amperes, Diesel Powered Towable Welding Machine811.60
 01 22 23 00-0797 DAY 300 To 349 Amperes, Diesel Powered Towable Welding Machine185.51
 01 22 23 00-0798 WK 300 To 349 Amperes, Diesel Powered Towable Welding Machine363.29
 01 22 23 00-0799 MO 300 To 349 Amperes, Diesel Powered Towable Welding Machine848.70
 01 22 23 00-0800 DAY 350 To 399 Amperes, Diesel Powered Towable Welding Machine193.24
 01 22 23 00-0801 WK 350 To 399 Amperes, Diesel Powered Towable Welding Machine386.48
 01 22 23 00-0802 MO 350 To 399 Amperes, Diesel Powered Towable Welding Machine943.00

01 22 23 00-0803 General Equipment (01 22 23)

01 22 23 00-0804 Jacks And Bracing (01 22 23 00-0803)

Note: Includes delivery to job site and pick-up when complete.

01 22 23 00-0805 Manual Hydraulic Jacks (01 22 23 00-0804)

01 22 23 00-0806 DAY 12 Ton Manual Hydraulic Bottle Jack1.67
 01 22 23 00-0807 WK 12 Ton Manual Hydraulic Bottle Jack7.93
 01 22 23 00-0808 MO 12 Ton Manual Hydraulic Bottle Jack28.50
 01 22 23 00-0809 DAY 20 Ton Manual Hydraulic Bottle Jack2.92
 01 22 23 00-0810 WK 20 Ton Manual Hydraulic Bottle Jack9.18
 01 22 23 00-0811 MO 20 Ton Manual Hydraulic Bottle Jack34.76
 01 22 23 00-0812 DAY 50 Ton Manual Hydraulic Bottle Jack10.43
 01 22 23 00-0813 WK 50 Ton Manual Hydraulic Bottle Jack40.49
 01 22 23 00-0814 MO 50 Ton Manual Hydraulic Bottle Jack145.66
 01 22 23 00-0815 DAY 100 Ton Manual Hydraulic Bottle Jack14.61
 01 22 23 00-0816 WK 100 Ton Manual Hydraulic Bottle Jack58.43
 01 22 23 00-0817 MO 100 Ton Manual Hydraulic Bottle Jack210.46

01 22 23 00-0818 Manual Screw Jacks (01 22 23 00-0804)

01 22 23 00-0819 DAY 10 To 20 Ton Manual Screw Jack17.63
 01 22 23 00-0820 WK 10 To 20 Ton Manual Screw Jack46.66
 01 22 23 00-0821 MO 10 To 20 Ton Manual Screw Jack139.98

01 22 23 00-0822 Pressure Washers (01 22 23 00-0803)

Note: Includes delivery to job site, pick-up when complete and full time operator.

01 22 23 00-0823 DAY 2,000 PSI Pressure Washer With Full-Time Operator830.52
For Equipment Without Operator, Deduct-670.06
 01 22 23 00-0824 WK 2,000 PSI Pressure Washer With Full-Time Operator3,757.64
For Equipment Without Operator, Deduct-3,350.32
 01 22 23 00-0825 MO 2,000 PSI Pressure Washer With Full-Time Operator15,554.85
For Equipment Without Operator, Deduct-14,518.04
 01 22 23 00-0826 DAY 2,500 PSI Pressure Washer With Full-Time Operator830.52
For Equipment Without Operator, Deduct-670.06
 01 22 23 00-0827 WK 2,500 PSI Pressure Washer With Full-Time Operator3,757.64
For Equipment Without Operator, Deduct-3,350.32
 01 22 23 00-0828 MO 2,500 PSI Pressure Washer With Full-Time Operator15,554.85
For Equipment Without Operator, Deduct-14,518.04
 01 22 23 00-0829 DAY 3,000 PSI Pressure Washer With Full-Time Operator830.52
For Equipment Without Operator, Deduct-670.06
 01 22 23 00-0830 WK 3,000 PSI Pressure Washer With Full-Time Operator3,757.64
For Equipment Without Operator, Deduct-3,350.32
 01 22 23 00-0831 MO 3,000 PSI Pressure Washer With Full-Time Operator15,554.85
For Equipment Without Operator, Deduct-14,518.04
 01 22 23 00-0832 DAY 3,500 PSI Pressure Washer With Full-Time Operator842.86
For Equipment Without Operator, Deduct-670.06
 01 22 23 00-0833 WK 3,500 PSI Pressure Washer With Full-Time Operator3,794.67
For Equipment Without Operator, Deduct-3,350.32
 01 22 23 00-0834 MO 3,500 PSI Pressure Washer With Full-Time Operator15,653.60
For Equipment Without Operator, Deduct-14,518.04
 01 22 23 00-0835 DAY 4,000 PSI Pressure Washer With Full-Time Operator892.23
For Equipment Without Operator, Deduct-670.06
 01 22 23 00-0836 WK 4,000 PSI Pressure Washer With Full-Time Operator3,955.13
For Equipment Without Operator, Deduct-3,350.32
 01 22 23 00-0837 MO 4,000 PSI Pressure Washer With Full-Time Operator16,209.03
For Equipment Without Operator, Deduct-14,518.04
 01 22 23 00-0838 DAY 5,000 PSI Pressure Washer With Full-Time Operator916.92
For Equipment Without Operator, Deduct-670.06
 01 22 23 00-0839 WK 5,000 PSI Pressure Washer With Full-Time Operator4,016.84
For Equipment Without Operator, Deduct-3,350.32
 01 22 23 00-0840 MO 5,000 PSI Pressure Washer With Full-Time Operator16,394.18
For Equipment Without Operator, Deduct-14,518.04



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
------------------------------	---------------------------	-------------------------

01 22 23 00-0841 Confined Space Entry Equipment (01 22 23 00-0803)
Note: Includes delivery to job site, set-up, and pick-up when complete.

01 22 23 00-0842	DAY	Ventilation Equipment For Confined Space	43.67	
Note: Includes electric or gas blower and ventilation duct up to 25'.				
01 22 23 00-0843	WK	Ventilation Equipment For Confined Space	131.01	
Note: Includes electric or gas blower and ventilation duct up to 25'.				
01 22 23 00-0844	MO	Ventilation Equipment For Confined Space	390.96	
Note: Includes electric or gas blower and ventilation duct up to 25'.				
01 22 23 00-0845	DAY	Confined Space Air Monitor, Tripod, Harness, Cables, SCBAs And Complete Assembly	63.75	
01 22 23 00-0846	WK	Confined Space Air Monitor, Tripod, Harness, Cables, SCBAs And Complete Assembly	191.26	
01 22 23 00-0847	MO	Confined Space Air Monitor, Tripod, Harness, Cables, SCBAs And Complete Assembly	573.79	
01 22 23 00-0848	DAY	Confined Space Air Monitor Personnel	854.61	
Note: Per person day.				

01 22 23 00-0849 Direct Fired Space Heaters (01 22 23 00-0803)
Note: Includes delivery to job site, set-up, and pick-up when complete. Excludes operator.

01 22 23 00-0850	DAY	150,000 BTU/Hour Space Heater	75.08	
01 22 23 00-0851	WK	150,000 BTU/Hour Space Heater	215.84	
01 22 23 00-0852	MO	150,000 BTU/Hour Space Heater	609.99	
01 22 23 00-0853	DAY	500,000 BTU/Hour Space Heater	159.54	
01 22 23 00-0854	WK	500,000 BTU/Hour Space Heater	394.15	
01 22 23 00-0855	MO	500,000 BTU/Hour Space Heater	996.63	

01 22 23 00-0856 Mowers (01 22 23 00-0803)
Note: Includes delivery to job site and pick-up when complete. Excludes operator.

01 22 23 00-0857	DAY	21" Walk Behind Lawn Mower	93.26	
01 22 23 00-0858	WK	21" Walk Behind Lawn Mower	268.12	
01 22 23 00-0859	MO	21" Walk Behind Lawn Mower	547.90	
01 22 23 00-0860	DAY	32" Walk Behind Lawn Mower	116.58	
01 22 23 00-0861	WK	32" Walk Behind Lawn Mower	279.78	
01 22 23 00-0862	MO	32" Walk Behind Lawn Mower	582.88	
01 22 23 00-0863	DAY	36" To 48" Walk Behind Deck Mower	209.84	
01 22 23 00-0864	WK	36" To 48" Walk Behind Deck Mower	582.88	
01 22 23 00-0865	MO	36" To 48" Walk Behind Deck Mower	1,690.34	
01 22 23 00-0866	DAY	61" To 72" Walk Behind Deck Mower	209.84	
01 22 23 00-0867	WK	61" To 72" Walk Behind Deck Mower	582.88	
01 22 23 00-0868	MO	61" To 72" Walk Behind Deck Mower	1,690.34	

01 22 23 00-0869 Trailer Mounted Brush Chipper (01 22 23 00-0803)
Note: Includes delivery to job site and pick-up when complete.

01 22 23 00-0870	DAY	4" Capacity, Trailer Mounted Brush Chipper For Emergency Clean-up	236.59	
01 22 23 00-0871	WK	4" Capacity, Trailer Mounted Brush Chipper For Emergency Clean-up	565.76	
01 22 23 00-0872	MO	4" Capacity, Trailer Mounted Brush Chipper For Emergency Clean-up	1,738.42	
01 22 23 00-0873	DAY	6" Capacity, Trailer Mounted Brush Chipper For Emergency Clean-up	308.60	
01 22 23 00-0874	WK	6" Capacity, Trailer Mounted Brush Chipper For Emergency Clean-up	695.37	
01 22 23 00-0875	MO	6" Capacity, Trailer Mounted Brush Chipper For Emergency Clean-up	1,851.57	
01 22 23 00-0876	DAY	9" Capacity, Trailer Mounted Brush Chipper For Emergency Clean-up	576.04	
01 22 23 00-0877	WK	9" Capacity, Trailer Mounted Brush Chipper For Emergency Clean-up	1,296.10	
01 22 23 00-0878	MO	9" Capacity, Trailer Mounted Brush Chipper For Emergency Clean-up	3,456.26	
01 22 23 00-0879	DAY	12" Capacity, Trailer Mounted Brush Chipper For Emergency Clean-up	562.21	
01 22 23 00-0880	WK	12" Capacity, Trailer Mounted Brush Chipper For Emergency Clean-up	1,264.98	
01 22 23 00-0881	MO	12" Capacity, Trailer Mounted Brush Chipper For Emergency Clean-up	3,373.27	

01 22 23 00-0882 Material Handling Equipment (01 22 23)

01 22 23 00-0883 Truck Mounted Hydraulic Cranes (01 22 23 00-0882)
Note: Includes full-time operator, delivery, set-up, rigging, all necessary counter weights and removal time in rental period. Excludes lattice boom extension.

01 22 23 00-0884	DAY	6 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	1,357.04	
<i>For Equipment Without Operator, Deduct</i>				
			-919.97	
01 22 23 00-0885	WK	6 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	5,923.91	
<i>For Equipment Without Operator, Deduct</i>				
			-4,599.85	
01 22 23 00-0886	MO	6 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	23,917.73	
<i>For Equipment Without Operator, Deduct</i>				
			-19,932.68	
01 22 23 00-0887	DAY	8 To 9 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	1,472.73	
<i>For Equipment Without Operator, Deduct</i>				
			-919.97	
01 22 23 00-0888	WK	8 To 9 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	6,267.79	
<i>For Equipment Without Operator, Deduct</i>				
			-4,599.85	
01 22 23 00-0889	MO	8 To 9 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	24,946.13	
<i>For Equipment Without Operator, Deduct</i>				
			-19,932.68	
01 22 23 00-0890	DAY	14 To 15 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	1,588.43	
<i>For Equipment Without Operator, Deduct</i>				
			-919.97	
01 22 23 00-0891	WK	14 To 15 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	6,611.66	
<i>For Equipment Without Operator, Deduct</i>				
			-4,599.85	
01 22 23 00-0892	MO	14 To 15 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	25,974.53	
<i>For Equipment Without Operator, Deduct</i>				
			-19,932.68	
01 22 23 00-0893	DAY	20 To 25 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	1,742.69	
<i>For Equipment Without Operator, Deduct</i>				
			-919.97	

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



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0894 WK 20 To 25 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	7,074.44 -4,599.85	
01 22 23 00-0895 MO 20 To 25 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	27,356.44 -19,932.68	
01 22 23 00-0896 DAY 30 To 35 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	1,884.09 -919.97	
01 22 23 00-0897 WK 30 To 35 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	8,032.13 -4,599.85	
01 22 23 00-0898 MO 30 To 35 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	30,226.96 -19,932.68	
01 22 23 00-0899 DAY 40 To 45 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	2,218.33 -919.97	
01 22 23 00-0900 WK 40 To 45 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	9,227.65 -4,599.85	
01 22 23 00-0901 MO 40 To 45 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	33,816.08 -19,932.68	
01 22 23 00-0902 DAY 50 To 55 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	2,430.43 -919.97	
01 22 23 00-0903 WK 50 To 55 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	9,973.24 -4,599.85	
01 22 23 00-0904 MO 50 To 55 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	36,057.99 -19,932.68	
01 22 23 00-0905 DAY 60 To 65 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	2,597.55 -919.97	
01 22 23 00-0906 WK 60 To 65 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	10,577.43 -4,599.85	
01 22 23 00-0907 MO 60 To 65 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	37,867.98 -19,932.68	
01 22 23 00-0908 DAY 70 To 75 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	2,764.66 -919.97	
01 22 23 00-0909 WK 70 To 75 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	11,181.61 -4,599.85	
01 22 23 00-0910 MO 70 To 75 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	39,677.96 -19,932.68	
01 22 23 00-0911 DAY 85 To 90 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	2,873.93 -919.97	
01 22 23 00-0912 WK 85 To 90 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	11,554.41 -4,599.85	
01 22 23 00-0913 MO 85 To 90 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	40,809.20 -19,932.68	
01 22 23 00-0914 DAY 100 To 110 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	3,021.76 -919.97	
01 22 23 00-0915 WK 100 To 110 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	12,107.17 -4,599.85	
01 22 23 00-0916 MO 100 To 110 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	42,454.64 -19,932.68	
01 22 23 00-0917 DAY 120 To 125 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i> <i>For Half Day Usage, Deduct</i>	3,497.40 -919.97 -1,030.97	
01 22 23 00-0918 WK 120 To 125 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	13,620.85 -4,599.85	
01 22 23 00-0919 MO 120 To 125 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	46,995.67 -19,932.68	
01 22 23 00-0920 DAY 140 To 150 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i> <i>For Half Day Usage, Deduct</i>	3,825.20 -919.97 -1,162.09	
01 22 23 00-0921 WK 140 To 150 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	14,768.15 -4,599.85	
01 22 23 00-0922 MO 140 To 150 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	50,437.60 -19,932.68	
01 22 23 00-0923 DAY 175 To 185 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i> <i>For Half Day Usage, Deduct</i>	4,416.53 -919.97 -1,398.62	
01 22 23 00-0924 WK 175 To 185 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	16,837.81 -4,599.85	
01 22 23 00-0925 MO 175 To 185 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	56,646.56 -19,932.68	
01 22 23 00-0926 DAY 200 To 210 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i> <i>For Half Day Usage, Deduct</i>	4,827.89 -919.97 -1,563.17	
01 22 23 00-0927 WK 200 To 210 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	18,277.57 -4,599.85	
01 22 23 00-0928 MO 200 To 210 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	60,965.84 -19,932.68	
01 22 23 00-0929 Cable Controlled Lattice Boom, Mechanical Cranes (01 22 23 00-0882) Note: Includes full-time operator and counterweights. Excludes delivery, set-up, and removal. See CSI section 01 71 13 00-0004 for lattice crane delivery.		
01 22 23 00-0930 DAY 75 To 80 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	2,462.57 -919.97	
01 22 23 00-0931 WK 75 To 80 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	10,101.79 -4,599.85	
01 22 23 00-0932 MO 75 To 80 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	36,438.50 -19,932.68	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0933 DAY 100 To 110 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator.....	3,651.66	
<i>For Equipment Without Operator, Deduct</i>	-919.97	
01 22 23 00-0934 WK 100 To 110 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator.....	12,081.46	
<i>For Equipment Without Operator, Deduct</i>	-4,599.85	
01 22 23 00-0935 MO 100 To 110 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator.....	42,377.51	
<i>For Equipment Without Operator, Deduct</i>	-19,932.68	
01 22 23 00-0936 DAY 125 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Or Crawler Mechanical Crane With Full-Time Operator	3,844.48	
<i>For Equipment Without Operator, Deduct</i>	-919.97	
01 22 23 00-0937 WK 125 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Or Crawler Mechanical Crane With Full-Time Operator	13,489.08	
<i>For Equipment Without Operator, Deduct</i>	-4,599.85	
01 22 23 00-0938 MO 125 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Or Crawler Mechanical Crane With Full-Time Operator	46,599.09	
<i>For Equipment Without Operator, Deduct</i>	-19,932.68	
01 22 23 00-0939 DAY 150 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Or Crawler Mechanical Crane With Full-Time Operator	4,230.13	
<i>For Equipment Without Operator, Deduct</i>	-919.97	
01 22 23 00-0940 WK 150 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Or Crawler Mechanical Crane With Full-Time Operator	14,896.71	
<i>For Equipment Without Operator, Deduct</i>	-4,599.85	
01 22 23 00-0941 MO 150 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Or Crawler Mechanical Crane With Full-Time Operator	50,815.53	
<i>For Equipment Without Operator, Deduct</i>	-19,932.68	
01 22 23 00-0942 DAY 200 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator	4,413.32	
<i>For Equipment Without Operator, Deduct</i>	-919.97	
01 22 23 00-0943 WK 200 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator	16,304.33	
<i>For Equipment Without Operator, Deduct</i>	-4,599.85	
01 22 23 00-0944 MO 200 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator	55,042.26	
<i>For Equipment Without Operator, Deduct</i>	-19,932.68	
01 22 23 00-0945 DAY 250 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator	4,596.50	
<i>For Equipment Without Operator, Deduct</i>	-919.97	
01 22 23 00-0946 WK 250 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator	17,711.95	
<i>For Equipment Without Operator, Deduct</i>	-4,599.85	
01 22 23 00-0947 MO 250 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator	59,268.98	
<i>For Equipment Without Operator, Deduct</i>	-19,932.68	
01 22 23 00-0948 DAY 300 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator	5,200.69	
<i>For Equipment Without Operator, Deduct</i>	-919.97	
01 22 23 00-0949 WK 300 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator	19,878.02	
<i>For Equipment Without Operator, Deduct</i>	-4,599.85	
01 22 23 00-0950 MO 300 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator	65,758.18	
<i>For Equipment Without Operator, Deduct</i>	-19,932.68	
01 22 23 00-0951 DAY 500 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator	8,915.78	
<i>For Equipment Without Operator, Deduct</i>	-919.97	
01 22 23 00-0952 WK 500 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator	33,118.67	
<i>For Equipment Without Operator, Deduct</i>	-4,599.85	
01 22 23 00-0953 MO 500 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator	105,495.56	
<i>For Equipment Without Operator, Deduct</i>	-19,932.68	
01 22 23 00-0954 Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklifts <small>(01 22 23 00-0882)</small>		
<i>Note: Includes full-time operator. Excludes delivery, set-up, and removal.</i>		
01 22 23 00-0955 DAY 5,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator	1,508.67	
<i>For Equipment Without Operator, Deduct</i>	-854.61	
01 22 23 00-0956 WK 5,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator	5,873.76	
<i>For Equipment Without Operator, Deduct</i>	-4,273.04	
01 22 23 00-0957 MO 5,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator	21,958.91	
<i>For Equipment Without Operator, Deduct</i>	-18,516.51	
01 22 23 00-0958 DAY 6,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator	1,577.51	
<i>For Equipment Without Operator, Deduct</i>	-854.61	
01 22 23 00-0959 WK 6,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator	6,028.66	
<i>For Equipment Without Operator, Deduct</i>	-4,273.04	
01 22 23 00-0960 MO 6,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator	22,303.15	
<i>For Equipment Without Operator, Deduct</i>	-18,516.51	
01 22 23 00-0961 DAY 8,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator	1,560.30	
<i>For Equipment Without Operator, Deduct</i>	-854.61	
01 22 23 00-0962 WK 8,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator	6,106.12	
<i>For Equipment Without Operator, Deduct</i>	-4,273.04	
01 22 23 00-0963 MO 8,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator	22,819.51	
<i>For Equipment Without Operator, Deduct</i>	-18,516.51	
01 22 23 00-0964 DAY 10,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator	1,758.24	
<i>For Equipment Without Operator, Deduct</i>	-854.61	
01 22 23 00-0965 WK 10,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator	6,622.48	
<i>For Equipment Without Operator, Deduct</i>	-4,273.04	
01 22 23 00-0966 MO 10,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator	24,024.35	
<i>For Equipment Without Operator, Deduct</i>	-18,516.51	
01 22 23 00-0967 Straight Mast, Rough Terrain Construction Forklifts <small>(01 22 23 00-0882)</small>		
<i>Note: Includes full-time operator. Excludes delivery, set-up, and removal.</i>		
01 22 23 00-0968 DAY 5,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator.....	1,279.75	
<i>For Equipment Without Operator, Deduct</i>	-854.61	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	85.03	

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



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0969 WK 5,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator.....	5,433.99	
<i>For Equipment Without Operator, Deduct</i>	-4,273.04	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	232.19	
01 22 23 00-0970 MO 5,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator.....	21,173.61	
<i>For Equipment Without Operator, Deduct</i>	-18,516.51	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	531.42	
01 22 23 00-0971 DAY 6,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator.....	1,302.12	
<i>For Equipment Without Operator, Deduct</i>	-854.61	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	89.50	
01 22 23 00-0972 WK 6,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator.....	5,495.09	
<i>For Equipment Without Operator, Deduct</i>	-4,273.04	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	244.41	
01 22 23 00-0973 MO 6,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator.....	21,313.46	
<i>For Equipment Without Operator, Deduct</i>	-18,516.51	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	559.39	
01 22 23 00-0974 DAY 8,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator.....	1,422.61	
<i>For Equipment Without Operator, Deduct</i>	-854.61	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	113.60	
01 22 23 00-0975 WK 8,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator.....	5,830.73	
<i>For Equipment Without Operator, Deduct</i>	-4,273.04	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	311.54	
01 22 23 00-0976 MO 8,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator.....	22,088.00	
<i>For Equipment Without Operator, Deduct</i>	-18,516.51	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	714.30	
01 22 23 00-0977 DAY 10,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator.....	1,488.96	
<i>For Equipment Without Operator, Deduct</i>	-854.61	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	126.87	
01 22 23 00-0978 WK 10,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator.....	5,801.98	
<i>For Equipment Without Operator, Deduct</i>	-4,273.04	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	305.79	
01 22 23 00-0979 MO 10,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator.....	22,322.60	
<i>For Equipment Without Operator, Deduct</i>	-18,516.51	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	761.22	
01 22 23 00-0980 Straight Mast, Industrial Warehouse Forklifts (01 22 23 00-0882)		
Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0981 DAY 5,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	1,216.06	
<i>For Equipment Without Operator, Deduct</i>	-854.61	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	72.29	
01 22 23 00-0982 WK 5,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	5,099.22	
<i>For Equipment Without Operator, Deduct</i>	-4,273.04	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	165.24	
01 22 23 00-0983 MO 5,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	20,495.89	
<i>For Equipment Without Operator, Deduct</i>	-18,516.51	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	395.88	
01 22 23 00-0984 DAY 6,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	1,224.67	
<i>For Equipment Without Operator, Deduct</i>	-854.61	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	74.01	
01 22 23 00-0985 WK 6,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	5,125.03	
<i>For Equipment Without Operator, Deduct</i>	-4,273.04	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	170.40	
01 22 23 00-0986 MO 6,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	20,556.13	
<i>For Equipment Without Operator, Deduct</i>	-18,516.51	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	407.92	
01 22 23 00-0987 DAY 8,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	1,405.39	
<i>For Equipment Without Operator, Deduct</i>	-854.61	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	110.16	
01 22 23 00-0988 WK 8,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	5,520.91	
<i>For Equipment Without Operator, Deduct</i>	-4,273.04	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	249.57	
01 22 23 00-0989 MO 8,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	21,528.61	
<i>For Equipment Without Operator, Deduct</i>	-18,516.51	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	602.42	
01 22 23 00-0990 DAY 12,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	1,422.61	
<i>For Equipment Without Operator, Deduct</i>	-854.61	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	113.60	
01 22 23 00-0991 WK 12,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	5,667.21	
<i>For Equipment Without Operator, Deduct</i>	-4,273.04	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	278.83	
01 22 23 00-0992 MO 12,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	22,044.97	
<i>For Equipment Without Operator, Deduct</i>	-18,516.51	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	705.69	
01 22 23 00-0993 DAY 15,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	1,577.51	
<i>For Equipment Without Operator, Deduct</i>	-854.61	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	144.58	
01 22 23 00-0994 WK 15,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	5,916.79	
<i>For Equipment Without Operator, Deduct</i>	-4,273.04	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	328.75	
01 22 23 00-0995 MO 15,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	22,475.27	
<i>For Equipment Without Operator, Deduct</i>	-18,516.51	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	791.75	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
------------------------------	---------------------------	-------------------------

01 22 23 00-0996	Chain Hoists <small>(01 22 23 00-0882)</small>	
	Note: Includes delivery to job site and pick-up when complete.	
01 22 23 00-0997	DAY 1 Ton, 20' Lift, Manual Chain Hoist.....	12.52
01 22 23 00-0998	WK 1 Ton, 20' Lift, Manual Chain Hoist.....	32.55
01 22 23 00-0999	MO 1 Ton, 20' Lift, Manual Chain Hoist.....	96.40
01 22 23 00-1000	DAY 3 Ton, 20' Lift, Manual Chain Hoist.....	35.06
01 22 23 00-1001	WK 3 Ton, 20' Lift, Manual Chain Hoist.....	82.63
01 22 23 00-1002	MO 3 Ton, 20' Lift, Manual Chain Hoist.....	231.62
01 22 23 00-1003	DAY 5 Ton, 20' Lift, Manual Chain Hoist.....	45.07
01 22 23 00-1004	WK 5 Ton, 20' Lift, Manual Chain Hoist.....	121.44
01 22 23 00-1005	MO 5 Ton, 20' Lift, Manual Chain Hoist.....	338.04
01 22 23 00-1006	DAY 2 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist	88.89
01 22 23 00-1007	WK 2 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist	231.62
01 22 23 00-1008	MO 2 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist	626.00
01 22 23 00-1009	DAY 3 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist	90.14
01 22 23 00-1010	WK 3 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist	241.01
01 22 23 00-1011	MO 3 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist	657.30
01 22 23 00-1012	DAY 5 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist	92.65
01 22 23 00-1013	WK 5 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist	259.79
01 22 23 00-1014	MO 5 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist	719.90

01 22 23 00-1015	Roof Swing Hoist <small>(01 22 23 00-0882)</small>	
	Note: Includes delivery to job site and pick-up when complete.	
01 22 23 00-1016	DAY Up To 400 Lbs, Manual Swing Roof Hoist	99.66
01 22 23 00-1017	WK Up To 400 Lbs, Manual Swing Roof Hoist	348.83
01 22 23 00-1018	MO Up To 400 Lbs, Manual Swing Roof Hoist	1,195.98

01 22 23 00-1019	Truck Mounted Digger Derrick <small>(01 22 23 00-0882)</small>	
	Note: Includes full-time operator, delivery, set-up, and removal time in rental period. Lifting capacity is reduced.	
01 22 23 00-1020	DAY Up To 47' Sheave Height, 34' Horizontal Reach, 12 Ton Capacity, Truck Mounted Hydraulic Digger Derrick With Full-Time Operator	1,528.50
	Note: Includes lifting boom, grapple arm and auger drill.	
	<i>For Equipment Without Operator, Deduct</i>	-919.97
01 22 23 00-1021	WK Up To 47' Sheave Height, 34' Horizontal Reach, 12 Ton Capacity, Truck Mounted Hydraulic Digger Derrick With Full-Time Operator	6,425.44
	Note: Includes lifting boom, grapple arm and auger drill.	
	<i>For Equipment Without Operator, Deduct</i>	-4,599.85
01 22 23 00-1022	MO Up To 47' Sheave Height, 34' Horizontal Reach, 12 Ton Capacity, Truck Mounted Hydraulic Digger Derrick With Full-Time Operator	24,800.91
	Note: Includes lifting boom, grapple arm and auger drill.	
	<i>For Equipment Without Operator, Deduct</i>	-19,932.68
01 22 23 00-1023	DAY Up To 48' Sheave Height, 38' Horizontal Reach, 15 Ton Capacity, Truck Mounted Hydraulic Digger Derrick With Full-Time Operator	1,653.58
	Note: Includes lifting boom, grapple arm and auger drill.	
	<i>For Equipment Without Operator, Deduct</i>	-919.97
01 22 23 00-1024	WK Up To 48' Sheave Height, 38' Horizontal Reach, 15 Ton Capacity, Truck Mounted Hydraulic Digger Derrick With Full-Time Operator	6,800.67
	Note: Includes lifting boom, grapple arm and auger drill.	
	<i>For Equipment Without Operator, Deduct</i>	-4,599.85
01 22 23 00-1025	MO Up To 48' Sheave Height, 38' Horizontal Reach, 15 Ton Capacity, Truck Mounted Hydraulic Digger Derrick With Full-Time Operator	25,801.54
	Note: Includes lifting boom, grapple arm and auger drill.	
	<i>For Equipment Without Operator, Deduct</i>	-19,932.68
01 22 23 00-1026	DAY Up To 65' Sheave Height, 55' Horizontal Reach, 21 Ton Capacity, Truck Mounted Hydraulic Digger Derrick With Full-Time Operator	2,426.49
	Note: Includes lifting boom, grapple arm and auger drill.	
	<i>For Equipment Without Operator, Deduct</i>	-919.97
01 22 23 00-1027	WK Up To 65' Sheave Height, 55' Horizontal Reach, 21 Ton Capacity, Truck Mounted Hydraulic Digger Derrick With Full-Time Operator	9,119.40
	Note: Includes lifting boom, grapple arm and auger drill.	
	<i>For Equipment Without Operator, Deduct</i>	-4,599.85
01 22 23 00-1028	MO Up To 65' Sheave Height, 55' Horizontal Reach, 21 Ton Capacity, Truck Mounted Hydraulic Digger Derrick With Full-Time Operator	31,984.82
	Note: Includes lifting boom, grapple arm and auger drill.	
	<i>For Equipment Without Operator, Deduct</i>	-19,932.68

01 22 23 00-1029	Pumping Equipment <small>(01 22 23)</small>	
-------------------------	--	--

01 22 23 00-1030	Gas Powered Portable Centrifugal Pumps <small>(01 22 23 00-1029)</small>	
	Note: Includes delivery, set-up, and removal. Excludes operator. See CSI section 01 22 23 00-1054 for larger diameter pumps.	
01 22 23 00-1031	DAY 8,500 GPH, 2" Discharge, 108' Maximum Head, Gas Powered Portable Centrifugal Pump	72.56
01 22 23 00-1032	WK 8,500 GPH, 2" Discharge, 108' Maximum Head, Gas Powered Portable Centrifugal Pump	163.27
01 22 23 00-1033	MO 8,500 GPH, 2" Discharge, 108' Maximum Head, Gas Powered Portable Centrifugal Pump	435.38
01 22 23 00-1034	DAY 16,500 GPH, 3" Discharge, 85' Maximum Head, Gas Powered Portable Centrifugal Pump	87.08
01 22 23 00-1035	WK 16,500 GPH, 3" Discharge, 85' Maximum Head, Gas Powered Portable Centrifugal Pump	195.92
01 22 23 00-1036	MO 16,500 GPH, 3" Discharge, 85' Maximum Head, Gas Powered Portable Centrifugal Pump	522.46



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

01 22 23 00-1037	Gas Powered Portable Diaphragm Pumps (01 22 23 00-1029)		
Note: Includes delivery, set-up, and removal. Excludes operator.			
01 22 23 00-1038	DAY 3,000 GPH, 2" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump	83.45	
01 22 23 00-1039	WK 3,000 GPH, 2" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump	235.83	
01 22 23 00-1040	MO 3,000 GPH, 2" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump	598.65	
01 22 23 00-1041	DAY 5,200 GPH, 3" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump	101.59	
01 22 23 00-1042	WK 5,200 GPH, 3" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump	272.12	
01 22 23 00-1043	MO 5,200 GPH, 3" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump	770.99	
01 22 23 00-1044	Gas Powered Portable Trash Pumps (01 22 23 00-1029)		
Note: Includes delivery, set-up, and removal. Excludes operator.			
01 22 23 00-1045	DAY 12,000 GPH, 2" Discharge, 100' Maximum Head, Gas Powered Portable Trash Pump	105.22	
01 22 23 00-1046	WK 12,000 GPH, 2" Discharge, 100' Maximum Head, Gas Powered Portable Trash Pump	217.69	
01 22 23 00-1047	MO 12,000 GPH, 2" Discharge, 100' Maximum Head, Gas Powered Portable Trash Pump	653.08	
01 22 23 00-1048	DAY 25,000 GPH, 3" Discharge, 90' Maximum Head, Gas Powered Portable Trash Pump	105.22	
01 22 23 00-1049	WK 25,000 GPH, 3" Discharge, 90' Maximum Head, Gas Powered Portable Trash Pump	281.19	
01 22 23 00-1050	MO 25,000 GPH, 3" Discharge, 90' Maximum Head, Gas Powered Portable Trash Pump	770.99	
01 22 23 00-1051	DAY 35,000 GPH, 4" Discharge, 106' Maximum Head, Gas Powered Portable Trash Pump	166.90	
01 22 23 00-1052	WK 35,000 GPH, 4" Discharge, 106' Maximum Head, Gas Powered Portable Trash Pump	471.67	
01 22 23 00-1053	MO 35,000 GPH, 4" Discharge, 106' Maximum Head, Gas Powered Portable Trash Pump	1,369.65	
01 22 23 00-1054	Diesel Powered Portable Trash Pumps (01 22 23 00-1029)		
Note: Includes delivery, set-up, and removal. Excludes operator.			
01 22 23 00-1055	DAY 63,000 GPH, 4" Discharge, 153' Maximum Head, Diesel Powered Portable Trash Pump	326.54	
01 22 23 00-1056	WK 63,000 GPH, 4" Discharge, 153' Maximum Head, Diesel Powered Portable Trash Pump	888.91	
01 22 23 00-1057	MO 63,000 GPH, 4" Discharge, 153' Maximum Head, Diesel Powered Portable Trash Pump	3,873.10	
01 22 23 00-1058	DAY 156,000 GPH, 6" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump	498.88	
01 22 23 00-1059	WK 156,000 GPH, 6" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump	1,306.15	
01 22 23 00-1060	MO 156,000 GPH, 6" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump	3,474.00	
01 22 23 00-1061	DAY 246,000 GPH, 10" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump	678.47	
01 22 23 00-1062	WK 246,000 GPH, 10" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump	1,815.91	
01 22 23 00-1063	MO 246,000 GPH, 10" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump	4,858.16	
01 22 23 00-1064	DAY 379,000 GPH, 12" Discharge, 104' Maximum Head, Diesel Powered Portable Trash Pump	878.02	
01 22 23 00-1065	WK 379,000 GPH, 12" Discharge, 104' Maximum Head, Diesel Powered Portable Trash Pump	2,242.23	
01 22 23 00-1066	MO 379,000 GPH, 12" Discharge, 104' Maximum Head, Diesel Powered Portable Trash Pump	6,585.18	
01 22 23 00-1067	Diesel Powered Portable Silenced Environmental Trash Pumps (01 22 23 00-1029)		
Note: Includes delivery, set-up, and removal. Excludes operator.			
01 22 23 00-1068	DAY 90,000 GPH, 4" Discharge, 330' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	466.22	
01 22 23 00-1069	WK 90,000 GPH, 4" Discharge, 330' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	1,061.25	
01 22 23 00-1070	MO 90,000 GPH, 4" Discharge, 330' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	3,308.92	
01 22 23 00-1071	DAY 136,800 GPH, 6" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	571.44	
01 22 23 00-1072	WK 136,800 GPH, 6" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	1,424.07	
01 22 23 00-1073	MO 136,800 GPH, 6" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	3,873.10	
01 22 23 00-1074	DAY 246,000 GPH, 10" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	689.36	
01 22 23 00-1075	WK 246,000 GPH, 10" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	2,039.05	
01 22 23 00-1076	MO 246,000 GPH, 10" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	5,687.20	
01 22 23 00-1077	DAY 510,000 GPH, 12" Discharge, 200' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	1,037.67	
01 22 23 00-1078	WK 510,000 GPH, 12" Discharge, 200' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	2,650.40	
01 22 23 00-1079	MO 510,000 GPH, 12" Discharge, 200' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	7,782.49	
01 22 23 00-1080	3 Phase Electric Submersible Pumps (01 22 23 00-1029)		
Note: Includes delivery, set-up, and removal. Excludes operator.			
01 22 23 00-1081	DAY 24,000 GPH, 3" Discharge, 78' Maximum Head, 3 Phase Electric Submersible Pump	181.41	
01 22 23 00-1082	WK 24,000 GPH, 3" Discharge, 78' Maximum Head, 3 Phase Electric Submersible Pump	453.52	
01 22 23 00-1083	MO 24,000 GPH, 3" Discharge, 78' Maximum Head, 3 Phase Electric Submersible Pump	1,360.58	
01 22 23 00-1084	DAY 49,800 GPH, 4" Discharge, 98' Maximum Head, 3 Phase Electric Submersible Pump	239.46	
01 22 23 00-1085	WK 49,800 GPH, 4" Discharge, 98' Maximum Head, 3 Phase Electric Submersible Pump	598.65	
01 22 23 00-1086	MO 49,800 GPH, 4" Discharge, 98' Maximum Head, 3 Phase Electric Submersible Pump	1,795.96	
01 22 23 00-1087	Suction Hose With Couplings (01 22 23 00-1029)		
Note: Includes delivery, set-up, and removal.			
01 22 23 00-1088	DAY Up To 2" Inside Diameter, 20' Length, Suction Hose With Couplings	5.28	
01 22 23 00-1089	WK Up To 2" Inside Diameter, 20' Length, Suction Hose With Couplings	13.20	
01 22 23 00-1090	MO Up To 2" Inside Diameter, 20' Length, Suction Hose With Couplings	40.48	
01 22 23 00-1091	DAY 3" Inside Diameter, 20' Length, Suction Hose With Couplings	14.08	
01 22 23 00-1092	WK 3" Inside Diameter, 20' Length, Suction Hose With Couplings	36.08	
01 22 23 00-1093	MO 3" Inside Diameter, 20' Length, Suction Hose With Couplings	110.00	
01 22 23 00-1094	DAY 4" Inside Diameter, 20' Length, Suction Hose With Couplings	21.12	
01 22 23 00-1095	WK 4" Inside Diameter, 20' Length, Suction Hose With Couplings	53.68	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-1096	MO		4" Inside Diameter, 20' Length, Suction Hose With Couplings.....	162.80	
01 22 23 00-1097	DAY		6" Inside Diameter, 20' Length, Suction Hose With Couplings.....	26.40	
01 22 23 00-1098	WK		6" Inside Diameter, 20' Length, Suction Hose With Couplings.....	66.00	
01 22 23 00-1099	MO		6" Inside Diameter, 20' Length, Suction Hose With Couplings.....	193.60	
01 22 23 00-1100	DAY		10" Inside Diameter, 20' Length, Suction Hose With Couplings.....	61.60	
01 22 23 00-1101	WK		10" Inside Diameter, 20' Length, Suction Hose With Couplings.....	158.40	
01 22 23 00-1102	MO		10" Inside Diameter, 20' Length, Suction Hose With Couplings.....	466.40	
01 22 23 00-1103	DAY		12" Inside Diameter, 20' Length, Suction Hose With Couplings.....	82.72	
01 22 23 00-1104	WK		12" Inside Diameter, 20' Length, Suction Hose With Couplings.....	180.40	
01 22 23 00-1105	MO		12" Inside Diameter, 20' Length, Suction Hose With Couplings.....	541.20	
01 22 23 00-1106			Discharge Hose With Couplings (01 22 23 00-1029)		
Note: Includes delivery, set-up, and removal.					
01 22 23 00-1107	DAY		1-1/2" Inside Diameter, 50' Length, Discharge Hose With Couplings	5.28	
01 22 23 00-1108	WK		1-1/2" Inside Diameter, 50' Length, Discharge Hose With Couplings	13.20	
01 22 23 00-1109	MO		1-1/2" Inside Diameter, 50' Length, Discharge Hose With Couplings	40.48	
01 22 23 00-1110	DAY		2" Inside Diameter, 50' Length, Discharge Hose With Couplings	6.16	
01 22 23 00-1111	WK		2" Inside Diameter, 50' Length, Discharge Hose With Couplings	14.96	
01 22 23 00-1112	MO		2" Inside Diameter, 50' Length, Discharge Hose With Couplings	46.64	
01 22 23 00-1113	DAY		3" Inside Diameter, 50' Length, Discharge Hose With Couplings	7.04	
01 22 23 00-1114	WK		3" Inside Diameter, 50' Length, Discharge Hose With Couplings	17.60	
01 22 23 00-1115	MO		3" Inside Diameter, 50' Length, Discharge Hose With Couplings	53.68	
01 22 23 00-1116	DAY		4" Inside Diameter, 50' Length, Discharge Hose With Couplings	18.48	
01 22 23 00-1117	WK		4" Inside Diameter, 50' Length, Discharge Hose With Couplings	47.52	
01 22 23 00-1118	MO		4" Inside Diameter, 50' Length, Discharge Hose With Couplings	136.40	
01 22 23 00-1119	DAY		6" Inside Diameter, 50' Length, Discharge Hose With Couplings	22.88	
01 22 23 00-1120	WK		6" Inside Diameter, 50' Length, Discharge Hose With Couplings	62.48	
01 22 23 00-1121	MO		6" Inside Diameter, 50' Length, Discharge Hose With Couplings	171.60	
01 22 23 00-1122	DAY		10" Inside Diameter, 10' Length, Discharge Hose With Couplings	17.60	
01 22 23 00-1123	WK		10" Inside Diameter, 10' Length, Discharge Hose With Couplings	44.00	
01 22 23 00-1124	MO		10" Inside Diameter, 10' Length, Discharge Hose With Couplings	132.00	
01 22 23 00-1125	DAY		12" Inside Diameter, 10' Length, Discharge Hose With Couplings	44.88	
01 22 23 00-1126	WK		12" Inside Diameter, 10' Length, Discharge Hose With Couplings	114.40	
01 22 23 00-1127	MO		12" Inside Diameter, 10' Length, Discharge Hose With Couplings	338.80	
01 22 23 00-1128			Hydraulic Submersible Pumps (01 22 23 00-1029)		
Note: Includes delivery, set-up, and removal. Excludes operator.					
01 22 23 00-1129			Hydraulic Submersible Pumps (01 22 23 00-1128)		
Note: Includes delivery, set-up, and removal. Excludes operator.					
01 22 23 00-1130	DAY		60,000 GPH, 4" Discharge, 115' Maximum Head, Hydraulic Submersible Pump.....	119.73	
01 22 23 00-1131	WK		60,000 GPH, 4" Discharge, 115' Maximum Head, Hydraulic Submersible Pump.....	321.10	
01 22 23 00-1132	MO		60,000 GPH, 4" Discharge, 115' Maximum Head, Hydraulic Submersible Pump.....	897.98	
01 22 23 00-1133	DAY		132,000 GPH, 6" Discharge, 90' Maximum Head, Hydraulic Submersible Pump.....	152.38	
01 22 23 00-1134	WK		132,000 GPH, 6" Discharge, 90' Maximum Head, Hydraulic Submersible Pump.....	391.85	
01 22 23 00-1135	MO		132,000 GPH, 6" Discharge, 90' Maximum Head, Hydraulic Submersible Pump.....	1,197.31	
01 22 23 00-1136			Hydraulic Submersible Pump Diesel Power Packs (01 22 23 00-1128)		
Note: Includes delivery, set-up, and removal. Excludes operator.					
01 22 23 00-1137	DAY		100 HP, Hydraulic Submersible Pump Diesel Power Pack.....	276.65	
01 22 23 00-1138	WK		100 HP, Hydraulic Submersible Pump Diesel Power Pack.....	825.42	
01 22 23 00-1139	MO		100 HP, Hydraulic Submersible Pump Diesel Power Pack.....	2,176.92	
01 22 23 00-1140			HDPE Pipe With Couplings (01 22 23 00-1029)		
Note: Includes delivery, set-up, and removal.					
01 22 23 00-1141	DAY		4" x 20' HDPE Pipe With Couplings.....	16.48	
01 22 23 00-1142	WK		4" x 20' HDPE Pipe With Couplings.....	39.55	
01 22 23 00-1143	MO		4" x 20' HDPE Pipe With Couplings.....	121.95	
01 22 23 00-1144	DAY		6" x 20' HDPE Pipe With Couplings.....	26.37	
01 22 23 00-1145	WK		6" x 20' HDPE Pipe With Couplings.....	65.92	
01 22 23 00-1146	MO		6" x 20' HDPE Pipe With Couplings.....	201.05	
01 22 23 00-1147	DAY		8" x 20' HDPE Pipe With Couplings.....	42.85	
01 22 23 00-1148	WK		8" x 20' HDPE Pipe With Couplings.....	112.06	
01 22 23 00-1149	MO		8" x 20' HDPE Pipe With Couplings.....	332.89	
01 22 23 00-1150	DAY		10" x 20' HDPE Pipe With Couplings.....	52.73	
01 22 23 00-1151	WK		10" x 20' HDPE Pipe With Couplings.....	135.13	
01 22 23 00-1152	MO		10" x 20' HDPE Pipe With Couplings.....	411.99	
01 22 23 00-1153	DAY		12" x 10' HDPE Pipe With Couplings.....	39.55	
01 22 23 00-1154	WK		12" x 10' HDPE Pipe With Couplings.....	108.76	
01 22 23 00-1155	MO		12" x 10' HDPE Pipe With Couplings.....	329.59	
01 22 23 00-1156	DAY		4" Elbow For HDPE Pipe, Quick Connect.....	39.55	
01 22 23 00-1157	WK		4" Elbow For HDPE Pipe, Quick Connect.....	102.17	
01 22 23 00-1158	MO		4" Elbow For HDPE Pipe, Quick Connect.....	303.22	
01 22 23 00-1159	DAY		6" Elbow For HDPE Pipe, Quick Connect.....	46.14	
01 22 23 00-1160	WK		6" Elbow For HDPE Pipe, Quick Connect.....	118.65	
01 22 23 00-1161	MO		6" Elbow For HDPE Pipe, Quick Connect.....	362.55	
01 22 23 00-1162	DAY		8" Elbow For HDPE Pipe, Quick Connect.....	52.73	
01 22 23 00-1163	WK		8" Elbow For HDPE Pipe, Quick Connect.....	135.13	

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



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

01 22 23 00-1164	MO	8" Elbow For HDPE Pipe, Quick Connect.....	411.99	
01 22 23 00-1165	DAY	10" Elbow For HDPE Pipe, Quick Connect.....	65.92	
01 22 23 00-1166	WK	10" Elbow For HDPE Pipe, Quick Connect.....	168.09	
01 22 23 00-1167	MO	10" Elbow For HDPE Pipe, Quick Connect.....	510.86	
01 22 23 00-1168	DAY	12" Elbow For HDPE Pipe, Quick Connect.....	65.92	
01 22 23 00-1169	WK	12" Elbow For HDPE Pipe, Quick Connect.....	168.09	
01 22 23 00-1170	MO	12" Elbow For HDPE Pipe, Quick Connect.....	510.86	
01 22 23 00-1171	DAY	4" Tee For HDPE Pipe, Quick Connect.....	39.55	
01 22 23 00-1172	WK	4" Tee For HDPE Pipe, Quick Connect.....	102.17	
01 22 23 00-1173	MO	4" Tee For HDPE Pipe, Quick Connect.....	303.22	
01 22 23 00-1174	DAY	6" Tee For HDPE Pipe, Quick Connect.....	52.73	
01 22 23 00-1175	WK	6" Tee For HDPE Pipe, Quick Connect.....	135.13	
01 22 23 00-1176	MO	6" Tee For HDPE Pipe, Quick Connect.....	411.99	
01 22 23 00-1177	DAY	8" Tee For HDPE Pipe, Quick Connect.....	65.92	
01 22 23 00-1178	WK	8" Tee For HDPE Pipe, Quick Connect.....	168.09	
01 22 23 00-1179	MO	8" Tee For HDPE Pipe, Quick Connect.....	510.86	
01 22 23 00-1180	DAY	10" Tee For HDPE Pipe, Quick Connect.....	79.10	
01 22 23 00-1181	WK	10" Tee For HDPE Pipe, Quick Connect.....	201.05	
01 22 23 00-1182	MO	10" Tee For HDPE Pipe, Quick Connect.....	609.74	
01 22 23 00-1183	DAY	12" Tee For HDPE Pipe, Quick Connect.....	79.10	
01 22 23 00-1184	WK	12" Tee For HDPE Pipe, Quick Connect.....	201.05	
01 22 23 00-1185	MO	12" Tee For HDPE Pipe, Quick Connect.....	609.74	
01 22 23 00-1186	DAY	4" Cap For HDPE Pipe, Quick Connect.....	6.59	
01 22 23 00-1187	WK	4" Cap For HDPE Pipe, Quick Connect.....	19.78	
01 22 23 00-1188	MO	4" Cap For HDPE Pipe, Quick Connect.....	59.33	
01 22 23 00-1189	DAY	6" Cap For HDPE Pipe, Quick Connect.....	6.59	
01 22 23 00-1190	WK	6" Cap For HDPE Pipe, Quick Connect.....	19.78	
01 22 23 00-1191	MO	6" Cap For HDPE Pipe, Quick Connect.....	59.33	
01 22 23 00-1192	DAY	8" Cap For HDPE Pipe, Quick Connect.....	6.59	
01 22 23 00-1193	WK	8" Cap For HDPE Pipe, Quick Connect.....	19.78	
01 22 23 00-1194	MO	8" Cap For HDPE Pipe, Quick Connect.....	59.33	
01 22 23 00-1195	DAY	10" Cap For HDPE Pipe, Quick Connect.....	6.59	
01 22 23 00-1196	WK	10" Cap For HDPE Pipe, Quick Connect.....	19.78	
01 22 23 00-1197	MO	10" Cap For HDPE Pipe, Quick Connect.....	59.33	
01 22 23 00-1198	DAY	12" Cap For HDPE Pipe, Quick Connect.....	6.59	
01 22 23 00-1199	WK	12" Cap For HDPE Pipe, Quick Connect.....	19.78	
01 22 23 00-1200	MO	12" Cap For HDPE Pipe, Quick Connect.....	59.33	
01 22 23 00-1201	DAY	4" Wye For HDPE Pipe, Quick Connect.....	19.78	
01 22 23 00-1202	WK	4" Wye For HDPE Pipe, Quick Connect.....	49.44	
01 22 23 00-1203	MO	4" Wye For HDPE Pipe, Quick Connect.....	151.61	
01 22 23 00-1204	DAY	6" Wye For HDPE Pipe, Quick Connect.....	23.07	
01 22 23 00-1205	WK	6" Wye For HDPE Pipe, Quick Connect.....	59.33	
01 22 23 00-1206	MO	6" Wye For HDPE Pipe, Quick Connect.....	181.27	
01 22 23 00-1207	DAY	8" Wye For HDPE Pipe, Quick Connect.....	39.55	
01 22 23 00-1208	WK	8" Wye For HDPE Pipe, Quick Connect.....	102.17	
01 22 23 00-1209	MO	8" Wye For HDPE Pipe, Quick Connect.....	303.22	
01 22 23 00-1210	DAY	10" Wye For HDPE Pipe, Quick Connect.....	59.33	
01 22 23 00-1211	WK	10" Wye For HDPE Pipe, Quick Connect.....	151.61	
01 22 23 00-1212	MO	10" Wye For HDPE Pipe, Quick Connect.....	461.43	
01 22 23 00-1213	DAY	12" Wye For HDPE Pipe, Quick Connect.....	59.33	
01 22 23 00-1214	WK	12" Wye For HDPE Pipe, Quick Connect.....	151.61	
01 22 23 00-1215	MO	12" Wye For HDPE Pipe, Quick Connect.....	461.43	

01 22 23 00-1216 Temporary Building Services (01 22 23)

01 22 23 00-1217 Boilers (01 22 23 00-1216)

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

01 22 23 00-1218 Electric Boilers (01 22 23 00-1217)

01 22 23 00-1219	MO	40 MBH, 12 KW Electric Boiler Rental.....	2,596.99	
01 22 23 00-1220	MO	60 MBH, 20 KW Electric Boiler Rental.....	2,833.12	
01 22 23 00-1221	MO	95 MBH, 30 KW Electric Boiler Rental.....	2,951.18	
01 22 23 00-1222	MO	135 MBH, 40 KW Electric Boiler Rental.....	3,305.26	
01 22 23 00-1223	MO	165 MBH, 50 KW Electric Boiler Rental.....	4,603.76	
01 22 23 00-1224	MO	215 MBH, 60 KW Electric Boiler Rental.....	5,312.05	
01 22 23 00-1225	MO	365 MBH, 100 KW Electric Boiler Rental.....	6,964.74	
01 22 23 00-1226	MO	510 MBH, 150 KW Electric Boiler Rental.....	8,499.35	

01 22 23 00-1227 Oil/Gas Fired Boilers (01 22 23 00-1217)

01 22 23 00-1228	MO	Up To 100 HP, Gas/Oil Dual Fuel Boiler Rental.....	2,479.00	
		For >3 Months Rental, Deduct.....	-371.85	
01 22 23 00-1229	MO	>100 HP To 250 HP, Gas/Oil Dual Fuel Boiler Rental.....	3,222.70	
		For >3 Months Rental, Deduct.....	-483.41	
01 22 23 00-1230	MO	>250 HP To 500 HP, Gas/Oil Dual Fuel Boiler Rental.....	5,205.90	
		For >3 Months Rental, Deduct.....	-780.89	
01 22 23 00-1231	MO	>500 HP To 800 HP, Gas/Oil Dual Fuel Boiler Rental.....	7,189.10	
		For >3 Months Rental, Deduct.....	-1,078.37	

01 22 23 00-1232 Oil Fired Boilers (01 22 23 00-1217)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-1233 MO 250 HP Oil Fired Boiler Rental.....	7,293.67	
01 22 23 00-1234 MO 350 HP Oil Fired Boiler Rental.....	9,724.90	
01 22 23 00-1235 MO 500 HP Oil Fired Boiler Rental.....	12,156.12	
01 22 23 00-1236 MO 600 HP Oil Fired Boiler Rental.....	13,371.73	
01 22 23 00-1237 Boilers Setup (01 22 23 00-1217)		
01 22 23 00-1238 EA Setup Rental Boiler.....	7,720.14	
Note: Includes delivery, setup, installation, startup, commissioning, decommissioning, and pickup. Excludes piping and electrical hookup. Excludes crane.		
01 22 23 00-1239 Chillers (01 22 23 00-1216)		
Note: Excludes operator, delivery, set-up, and removal.		
01 22 23 00-1240 Air Cooled Chillers (01 22 23 00-1239)		
01 22 23 00-1241 MO 25 Ton Air Cooled Chiller Rental.....	2,494.67	
For >3 To 6 Month Rental, Deduct		
	-374.20	
For >6 Month Rental, Deduct		
	-623.67	
01 22 23 00-1242 MO 40 Ton Air Cooled Chiller Rental.....	3,991.48	
For >3 To 6 Month Rental, Deduct		
	-598.72	
For >6 Month Rental, Deduct		
	-997.87	
01 22 23 00-1243 MO 60 Ton Air Cooled Chiller Rental.....	4,882.03	
For >3 To 6 Month Rental, Deduct		
	-732.30	
For >6 Month Rental, Deduct		
	-1,220.51	
01 22 23 00-1244 MO 80 Ton Air Cooled Chiller Rental.....	5,772.58	
For >3 To 6 Month Rental, Deduct		
	-865.89	
For >6 Month Rental, Deduct		
	-1,443.15	
01 22 23 00-1245 MO 100 Ton Air Cooled Chiller Rental.....	6,663.13	
For >3 To 6 Month Rental, Deduct		
	-999.47	
For >6 Month Rental, Deduct		
	-1,665.78	
01 22 23 00-1246 MO 125 Ton Air Cooled Chiller Rental.....	7,719.37	
For >3 To 6 Month Rental, Deduct		
	-1,157.91	
For >6 Month Rental, Deduct		
	-1,929.84	
01 22 23 00-1247 MO 155 Ton Air Cooled Chiller Rental.....	9,338.54	
For >3 To 6 Month Rental, Deduct		
	-1,400.78	
For >6 Month Rental, Deduct		
	-2,334.64	
01 22 23 00-1248 MO 170 Ton Air Cooled Chiller Rental.....	9,986.22	
For >3 To 6 Month Rental, Deduct		
	-1,497.93	
For >6 Month Rental, Deduct		
	-2,496.56	
01 22 23 00-1249 MO 200 Ton Air Cooled Chiller Rental.....	11,471.73	
For >3 To 6 Month Rental, Deduct		
	-1,720.76	
For >6 Month Rental, Deduct		
	-2,867.93	
01 22 23 00-1250 MO 250 Ton Air Cooled Chiller Rental.....	13,650.10	
For >3 To 6 Month Rental, Deduct		
	-2,047.52	
For >6 Month Rental, Deduct		
	-3,412.53	
01 22 23 00-1251 MO 300 Ton Air Cooled Chiller Rental.....	15,928.25	
Note: Includes trailer.		
For >3 To 6 Month Rental, Deduct		
	-2,389.24	
For >6 Month Rental, Deduct		
	-3,982.06	
01 22 23 00-1252 MO 400 Ton Air Cooled Chiller Rental.....	21,011.74	
Note: Includes trailer, pump and 200' of 6" hose.		
For >3 To 6 Month Rental, Deduct		
	-3,151.76	
For >6 Month Rental, Deduct		
	-5,252.94	
01 22 23 00-1253 MO 500 Ton Air Cooled Chiller Rental.....	26,008.61	
Note: Includes trailer, pump and 200' of 6" hose.		
For >3 To 6 Month Rental, Deduct		
	-3,901.29	
For >6 Month Rental, Deduct		
	-6,502.15	
01 22 23 00-1254 EA Setup Air Cooled Chiller Rental Unit.....	5,366.44	
Note: Includes delivery, setup, installation, refrigerant charge, startup, commissioning, decommissioning, recovery of refrigerant and pickup. Excludes piping and electrical hookup. Excludes crane if off-loaded.		
01 22 23 00-1255 Chiller Rental Accessories (01 22 23 00-1239)		
01 22 23 00-1256 MO 4" x 25' Flexible Water Hose For Chiller Rental.....	44.45	
01 22 23 00-1257 MO 6" x 25' Flexible Water Hose For Chiller Rental.....	55.56	
01 22 23 00-1258 Cooling Tower (01 22 23 00-1216)		
Note: Excludes operator, delivery, set-up, and removal.		
01 22 23 00-1259 MO 100 Ton Cooling Tower Rental.....	2,289.28	
For >3 To 6 Months Rental, Deduct		
	-343.39	
For >6 Months Rental, Deduct		
	-572.32	
01 22 23 00-1260 MO 200 Ton Cooling Tower Rental.....	4,167.38	
For >3 To 6 Months Rental, Deduct		
	-625.11	
For >6 Months Rental, Deduct		
	-1,041.85	
01 22 23 00-1261 MO 250 Ton Cooling Tower Rental.....	4,719.36	
For >3 To 6 Months Rental, Deduct		
	-707.90	
For >6 Months Rental, Deduct		
	-1,179.84	
01 22 23 00-1262 MO 300 Ton Cooling Tower Rental.....	5,334.24	
For >3 To 6 Months Rental, Deduct		
	-800.14	
For >6 Months Rental, Deduct		
	-1,333.56	

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



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-1263 MO 400 Ton Cooling Tower Rental <i>For >3 To 6 Months Rental, Deduct</i> <i>For >6 Months Rental, Deduct</i>	6,667.80 -1,000.17 -1,666.95	
01 22 23 00-1264 MO 500 Ton Cooling Tower Rental <i>For >3 To 6 Months Rental, Deduct</i> <i>For >6 Months Rental, Deduct</i>	7,795.80 -1,169.37 -1,948.95	
01 22 23 00-1265 MO Setup Rental Cooling Tower Note: Includes delivery, setup, installation, startup, commissioning, decommissioning, and pickup. Excludes piping and electrical hookup. Excludes crane.	5,366.44	
01 22 23 00-1266 Emergency Cooler/Freezer <small>(01 22 23 00-1216)</small> Note: Excludes utility connection, delivery, set-up, and removal. Cooler 115 Volt or 230 Volt, freezer 208/230 Volt, combo 115 Volt or 230 Volt.		
01 22 23 00-1267 DAY 8 x 6 x 7 Emergency Cooler Rental	126.92	
01 22 23 00-1268 WK 8 x 6 x 7 Emergency Cooler Rental	676.88	
01 22 23 00-1269 DAY 10 x 7 x 7 Emergency Cooler Rental	253.83	
01 22 23 00-1270 WK 10 x 7 x 7 Emergency Cooler Rental	1,015.32	
01 22 23 00-1271 MO 10 x 7 x 7 Emergency Cooler Rental	2,538.30	
01 22 23 00-1272 DAY 10 x 7 x 7 Emergency Freezer Rental.....	296.14	
01 22 23 00-1273 WK 10 x 7 x 7 Emergency Freezer Rental.....	1,184.54	
01 22 23 00-1274 MO 10 x 7 x 7 Emergency Freezer Rental.....	3,045.96	
01 22 23 00-1275 DAY 6 x 8 x 7 Or 6 x 6 x 7, Emergency Combo Cooler/Freezer Rental.....	338.44	
01 22 23 00-1276 WK 6 x 8 x 7 Or 6 x 6 x 7, Emergency Combo Cooler/Freezer Rental.....	1,353.76	
01 22 23 00-1277 MO 6 x 8 x 7 Or 6 x 6 x 7, Emergency Combo Cooler/Freezer Rental.....	3,384.40	
01 22 23 00-1278 Portable Spot Cooling Units <small>(01 22 23 00-1216)</small> Note: Includes up to 20' duct. Excludes operator, delivery, set-up, and removal.		
01 22 23 00-1279 DAY 1 Ton Portable Spot Cooling Unit	186.84	
01 22 23 00-1280 WK 1 Ton Portable Spot Cooling Unit	404.82	
01 22 23 00-1281 MO 1 Ton Portable Spot Cooling Unit	956.96	
01 22 23 00-1282 DAY 1.5 Ton Portable Spot Cooling Unit	244.33	
01 22 23 00-1283 WK 1.5 Ton Portable Spot Cooling Unit	501.84	
01 22 23 00-1284 MO 1.5 Ton Portable Spot Cooling Unit	1,177.34	
01 22 23 00-1285 DAY 2 Ton Portable Spot Cooling Unit	329.37	
01 22 23 00-1286 WK 2 Ton Portable Spot Cooling Unit	688.68	
01 22 23 00-1287 MO 2 Ton Portable Spot Cooling Unit	1,275.55	
01 22 23 00-1288 DAY 3 Ton Portable Spot Cooling Unit	344.94	
01 22 23 00-1289 WK 3 Ton Portable Spot Cooling Unit	730.60	
01 22 23 00-1290 MO 3 Ton Portable Spot Cooling Unit	1,614.50	
01 22 23 00-1291 DAY 5 Ton Portable Spot Cooling Unit	538.96	
01 22 23 00-1292 WK 5 Ton Portable Spot Cooling Unit	1,089.91	
01 22 23 00-1293 MO 5 Ton Portable Spot Cooling Unit	2,264.85	
01 22 23 00-1294 DAY 10 To 12 Ton Portable Spot Cooling Unit	704.25	
01 22 23 00-1295 WK 10 To 12 Ton Portable Spot Cooling Unit	1,586.95	
01 22 23 00-1296 MO 10 To 12 Ton Portable Spot Cooling Unit	3,830.24	
01 22 23 00-1297 DAY 20 Ton Portable Spot Cooling Unit	808.45	
01 22 23 00-1298 WK 20 Ton Portable Spot Cooling Unit	1,856.44	
01 22 23 00-1299 MO 20 Ton Portable Spot Cooling Unit	5,174.06	
01 22 23 00-1300 DAY 25 Ton Portable Spot Cooling Unit	1,149.79	
01 22 23 00-1301 WK 25 Ton Portable Spot Cooling Unit	2,329.53	
01 22 23 00-1302 MO 25 Ton Portable Spot Cooling Unit	5,419.59	
01 22 23 00-1303 EA Setup Rental Of Up To 5 Ton Portable Spot Cooler..... Note: Includes delivery, setup, connection to power outlet and connection to duct and removal. Excludes electrical wiring.	243.20	
01 22 23 00-1304 EA Setup Rental Of 10 To 15 Ton Portable Spot Cooler..... Note: Includes delivery, setup, connection to power outlet and connection to duct and removal. Excludes electrical wiring.	560.84	
01 22 23 00-1305 EA Setup Rental Of 20 To 25 Ton Portable Spot Cooler..... Note: Includes delivery, setup, connection to power outlet and connection to duct and removal. Excludes electrical wiring.	826.82	
01 22 23 00-1306 Fuel Oil Tank <small>(01 22 23 00-1216)</small> Note: Excludes delivery to job site and pick-up when complete. Excludes Off-road fuel costs. See CSI section 01 22 23 00-0772 for reimbursable fuel fees.		
01 22 23 00-1307 MO 100 Gallon Portable Double Wall Fuel Oil Tank Rental	392.12	
01 22 23 00-1308 MO 275 Gallon Portable Double Wall Fuel Oil Tank Rental	609.97	
01 22 23 00-1309 MO 500 Gallon Portable Double Wall Fuel Oil Tank Rental	1,524.92	
01 22 23 00-1310 MO 1,000 Gallon Portable Double Wall Fuel Oil Tank Rental	2,541.52	
01 22 23 00-1311 MO 2,300 Gallon Portable Double Wall Fuel Oil Tank Rental	3,354.81	
01 22 23 00-1312 MO 5,000 Gallon Portable Double Wall Fuel Oil Tank Rental	5,993.16	
01 22 23 00-1313 Truck And Trailer Equipment <small>(01 22 23)</small>		
01 22 23 00-1314 Trucks <small>(01 22 23 00-1313)</small> Note: Includes driver, delivery, and removal.		
01 22 23 00-1315 Flat Bed Trucks <small>(01 22 23 00-1314)</small> Note: Includes hydraulic tilt bed.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-1316 DAY 1-1/2 Ton Capacity, 8' To 10' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	1,032.74 -727.16	
01 22 23 00-1317 WK 1-1/2 Ton Capacity, 8' To 10' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	4,436.93 -3,635.81	
01 22 23 00-1318 MO 1-1/2 Ton Capacity, 8' To 10' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	17,778.65 -15,755.19	
01 22 23 00-1319 DAY 3 Ton Capacity, 12' To 16' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	1,164.89 -727.16	
01 22 23 00-1320 WK 3 Ton Capacity, 12' To 16' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	4,775.55 -3,635.81	
01 22 23 00-1321 MO 3 Ton Capacity, 12' To 16' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	18,645.84 -15,755.19	
01 22 23 00-1322 DAY 6-1/2 Ton Capacity, 16' To 22' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	1,259.70 -727.16	
01 22 23 00-1323 WK 6-1/2 Ton Capacity, 16' To 22' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	5,137.96 -3,635.81	
01 22 23 00-1324 MO 6-1/2 Ton Capacity, 16' To 22' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	20,025.09 -15,755.19	
01 22 23 00-1325 Boom Trucks <small>(01 22 23 00-1314)</small>		
01 22 23 00-1326 DAY 3-1/2 Ton, 4 x 2 Boom Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i> <i>For High Rail Equipment, Add</i>	1,296.21 -727.16 199.17	
01 22 23 00-1327 WK 3-1/2 Ton, 4 x 2 Boom Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i> <i>For High Rail Equipment, Add</i>	5,117.47 -3,635.81 518.58	
01 22 23 00-1328 MO 3-1/2 Ton, 4 x 2 Boom Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i> <i>For High Rail Equipment, Add</i>	19,513.03 -15,755.19 1,315.24	
01 22 23 00-1329 Light Off-Road Utility Passenger Vehicles <small>(01 22 23 00-1314)</small>		
01 22 23 00-1330 DAY 4 Wheel, 2 Person, Light Off Road Utility Passenger Vehicle	298.72	
01 22 23 00-1331 WK 4 Wheel, 2 Person, Light Off Road Utility Passenger Vehicle	690.79	
01 22 23 00-1332 MO 4 Wheel, 2 Person, Light Off Road Utility Passenger Vehicle	1,493.60	
01 22 23 00-1333 DAY 4 Wheel, 4 Person, Light Off Road Utility Passenger Vehicle	308.06	
01 22 23 00-1334 WK 4 Wheel, 4 Person, Light Off Road Utility Passenger Vehicle	718.80	
01 22 23 00-1335 MO 4 Wheel, 4 Person, Light Off Road Utility Passenger Vehicle	1,586.95	
01 22 23 00-1336 Light Duty Trucks <small>(01 22 23 00-1314)</small>		
01 22 23 00-1337 DAY 1/2 To 3/4 Ton, 4 x 2 Light Duty Conventional Pickup Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	950.07 -720.29	
01 22 23 00-1338 WK 1/2 To 3/4 Ton, 4 x 2 Light Duty Conventional Pickup Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	4,355.40 -3,601.45	
01 22 23 00-1339 MO 1/2 To 3/4 Ton, 4 x 2 Light Duty Conventional Pickup Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	17,185.99 -15,606.28	
01 22 23 00-1340 DAY 3/4 Ton, 4 x 4 Crew Cab Pickup Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	993.15 -720.29	
01 22 23 00-1341 WK 3/4 Ton, 4 x 4 Crew Cab Pickup Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	4,484.65 -3,601.45	
01 22 23 00-1342 MO 3/4 Ton, 4 x 4 Crew Cab Pickup Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	17,473.21 -15,606.28	
01 22 23 00-1343 Rear Dump Trucks <small>(01 22 23 00-1314)</small>		
01 22 23 00-1344 DAY 2.5 CY Rear Dump Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	1,117.53 -727.16	
01 22 23 00-1345 WK 2.5 CY Rear Dump Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	4,666.91 -3,635.81	
01 22 23 00-1346 MO 2.5 CY Rear Dump Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	18,912.13 -15,755.19	
01 22 23 00-1347 DAY 4 CY Rear Dump Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	1,246.95 -727.16	
01 22 23 00-1348 WK 4 CY Rear Dump Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	5,067.89 -3,635.81	
01 22 23 00-1349 MO 4 CY Rear Dump Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	19,467.99 -15,755.19	
01 22 23 00-1350 DAY 6 CY Rear Dump Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	1,321.21 -727.16	
01 22 23 00-1351 WK 6 CY Rear Dump Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	5,227.01 -3,635.81	
01 22 23 00-1352 MO 6 CY Rear Dump Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	19,574.07 -15,755.19	
01 22 23 00-1353 DAY 13 CY Rear Dump Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	2,201.67 -727.16	
01 22 23 00-1354 WK 13 CY Rear Dump Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	7,040.98 -3,635.81	
01 22 23 00-1355 MO 13 CY Rear Dump Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	24,665.91 -15,755.19	
01 22 23 00-1356 DAY 18 CY Rear Dump Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	2,349.12 -727.16	

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



MINOR CSI UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-1357	WK 18 CY Rear Dump Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	7,381.49 -3,635.81	
01 22 23 00-1358	MO 18 CY Rear Dump Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	25,556.98 -15,755.19	
01 22 23 00-1359	Vacuum Trucks (01 22 23 00-1314)		
01 22 23 00-1360	DAY 5,000 Gallon Vacuum Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	2,191.06 -727.16	
01 22 23 00-1361	WK 5,000 Gallon Vacuum Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	8,044.49 -3,635.81	
01 22 23 00-1362	MO 5,000 Gallon Vacuum Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	28,764.84 -15,755.19	
01 22 23 00-1363	Water Trucks (01 22 23 00-1314) Note: Includes pump and 1-1/2" Diameter x 50' water hose. See CSI section 01 22 23 00-1106 for additional discharge hose, 01 22 23 00-1390 for water trailer.		
01 22 23 00-1364	DAY 2,000 Gallon Water Truck With Full-Time Driver <i>For Equipment Without Operator, Deduct</i> <i>For Each 1,000 Gallon Of Purchased Water, Add</i>	1,410.66 -727.16 14.40	
01 22 23 00-1365	WK 2,000 Gallon Water Truck With Full-Time Driver <i>For Equipment Without Operator, Deduct</i> <i>For Each 1,000 Gallon Of Purchased Water, Add</i>	5,435.71 -3,635.81 14.40	
01 22 23 00-1366	MO 2,000 Gallon Water Truck With Full-Time Driver <i>For Equipment Without Operator, Deduct</i> <i>For Each 1,000 Gallon Of Purchased Water, Add</i>	20,008.11 -15,755.19 14.40	
01 22 23 00-1367	DAY 3,700 To 4,000 Gallon Water Truck With Full-Time Driver <i>For Equipment Without Operator, Deduct</i> <i>For Each 1,000 Gallon Of Purchased Water, Add</i>	1,744.82 -727.16 14.40	
01 22 23 00-1368	WK 3,700 To 4,000 Gallon Water Truck With Full-Time Driver <i>For Equipment Without Operator, Deduct</i> <i>For Each 1,000 Gallon Of Purchased Water, Add</i>	6,438.18 -3,635.81 14.40	
01 22 23 00-1369	MO 3,700 To 4,000 Gallon Water Truck With Full-Time Driver <i>For Equipment Without Operator, Deduct</i> <i>For Each 1,000 Gallon Of Purchased Water, Add</i>	22,590.24 -15,755.19 14.40	
01 22 23 00-1370	Asphalt Distribution Trucks (01 22 23 00-1314)		
01 22 23 00-1371	DAY 3,000 Gallon Asphalt Prime Coat Distribution Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	2,142.75 -727.16	
01 22 23 00-1372	WK 3,000 Gallon Asphalt Prime Coat Distribution Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	7,864.42 -3,635.81	
01 22 23 00-1373	MO 3,000 Gallon Asphalt Prime Coat Distribution Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	28,256.01 -15,755.19	
01 22 23 00-1374	Traffic Control Truck With Mounted Impact Attenuators/Crash Cushions And Arrow Board (01 22 23 00-1314)		
01 22 23 00-1375	DAY Traffic Control Truck With Mounted Impact Attenuator/Crash Cushion And Arrow Board With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	1,465.70 -720.29	
01 22 23 00-1376	WK Traffic Control Truck With Mounted Impact Attenuator/Crash Cushion And Arrow Board With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	5,801.37 -3,601.45	
01 22 23 00-1377	MO Traffic Control Truck With Mounted Impact Attenuator/Crash Cushion And Arrow Board With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	20,948.71 -15,606.28	
01 22 23 00-1378	Combination Jet/Vacuum Trucks (01 22 23 00-1314)		
01 22 23 00-1379	DAY 500 Gallon Water, 6 CY Debris, Combination Jet/Vacuum Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	3,179.46 -727.16	
01 22 23 00-1380	WK 500 Gallon Water, 6 CY Debris, Combination Jet/Vacuum Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	15,115.54 -3,635.81	
01 22 23 00-1381	DAY 1,000 Gallon Water, 10 CY Debris, Combination Jet/Vacuum Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	3,607.38 -727.16	
01 22 23 00-1382	WK 1,000 Gallon Water, 10 CY Debris, Combination Jet/Vacuum Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	17,604.88 -3,635.81	
01 22 23 00-1383	DAY 2,000 Gallon Water, 15 CY Debris, Combination Jet/Vacuum Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	4,018.84 -727.16	
01 22 23 00-1384	WK 2,000 Gallon Water, 15 CY Debris, Combination Jet/Vacuum Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	20,094.21 -3,635.81	
01 22 23 00-1385	Straight/Box Trucks (01 22 23 00-1314)		
01 22 23 00-1386	DAY 18,000 LB Capacity, 24' Straight/Box Truck With Full-Time Truck Driver Note: Includes 2,500 LB lift gate. <i>For Equipment Without Operator, Deduct</i>	857.65 -727.16	
01 22 23 00-1387	WK 18,000 LB Capacity, 24' Straight/Box Truck With Full-Time Truck Driver Note: Includes 2,500 LB lift gate. <i>For Equipment Without Operator, Deduct</i>	4,288.27 -3,635.81	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-1388 MO 18,000 LB Capacity, 24' Straight/Box Truck With Full-Time Truck Driver Note: Includes 2,500 LB lift gate. <i>For Equipment Without Operator, Deduct</i>	17,681.19	-15,755.19
01 22 23 00-1389 Trailers <small>(01 22 23 00-1313)</small> Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-1390 Water Trailers With Pump <small>(01 22 23 00-1389)</small>		
01 22 23 00-1391 DAY 500 To 600 Gallon Water Trailer With Pump	174.67	
01 22 23 00-1392 WK 500 To 600 Gallon Water Trailer With Pump	448.08	
01 22 23 00-1393 MO 500 To 600 Gallon Water Trailer With Pump	1,199.93	
01 22 23 00-1394 Trailer Mounted Equipment <small>(01 22 23 00-1313)</small>		
01 22 23 00-1395 Trailer Mounted Under-Bridge Aerial Access Platform <small>(01 22 23 00-1394)</small> Note: Includes full-time operator. Excludes truck.		
01 22 23 00-1396 DAY Trailer Mounted Under-Bridge Aerial Access 32' With Full-Time Operator	2,859.27	
<i>For Equipment Without Operator, Deduct</i>	-727.16	
01 22 23 00-1397 WK Trailer Mounted Under-Bridge Aerial Access 32' With Full-Time Operator	10,032.14	
<i>For Equipment Without Operator, Deduct</i>	-3,635.81	
01 22 23 00-1398 MO Trailer Mounted Under-Bridge Aerial Access 32' With Full-Time Operator	33,522.78	
<i>For Equipment Without Operator, Deduct</i>	-15,755.19	
01 22 23 00-1399 DAY Trailer Mounted Under-Bridge Aerial Access 35' With Full-Time Operator	3,072.48	
<i>For Equipment Without Operator, Deduct</i>	-727.16	
01 22 23 00-1400 WK Trailer Mounted Under-Bridge Aerial Access 35' With Full-Time Operator	10,671.78	
<i>For Equipment Without Operator, Deduct</i>	-3,635.81	
01 22 23 00-1401 MO Trailer Mounted Under-Bridge Aerial Access 35' With Full-Time Operator	35,299.54	
<i>For Equipment Without Operator, Deduct</i>	-15,755.19	
01 22 23 00-1402 Trailer Mounted Bridge Stripping Buggy <small>(01 22 23 00-1394)</small>		
01 22 23 00-1403 DAY Trailer Mounted Bridge Overhang Stripping Buggy	241.94	
01 22 23 00-1404 WK Trailer Mounted Bridge Overhang Stripping Buggy	725.84	
01 22 23 00-1405 MO Trailer Mounted Bridge Overhang Stripping Buggy	2,016.15	
01 22 23 00-1406 Portable Trailer Mounted, CCTV Camera Systems <small>(01 22 23 00-1394)</small> Note: Includes trailer. Excludes truck.		
01 22 23 00-1407 MO Portable Trailer Mounted, Single Camera, CCTV Camera System	2,800.50	
01 22 23 00-1408 MO Portable Trailer Mounted, Multi-Camera/Loud Speaker, CCTV Camera System	4,854.20	

01 30 Administrative Requirements (01)

01 31 Project Management and Coordination (01 30)

01 31 33 Project Minimum Labor Costs (01 31)

01 31 33 00-0001 Minimum Charge <small>(01 31 33)</small> Note: Use item exclusively for projects when the sum of line items is less than the minimum charge per occurrence. Item should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Item quantity is 1, unless approved by owner.		
01 31 33 00-0002 EA Carpenter Minimum Charge	1,131.13	
Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.		
01 31 33 00-0003 EA Carpet, Linoleum Minimum Charge	1,074.75	
Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.		
01 31 33 00-0004 EA Cement Mason Minimum Charge	772.71	
Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.		
01 31 33 00-0005 EA Drywall Finisher Minimum Charge	1,043.50	
Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.		
01 31 33 00-0006 EA Drywall Installer Minimum Charge	1,095.37	
Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.		
01 31 33 00-0007 EA Electrician Minimum Charge	1,374.43	
Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.		
01 31 33 00-0008 EA Glazier Minimum Charge	976.24	
Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.		
01 31 33 00-0009 EA Insulator Minimum Charge	1,179.50	
Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.		
01 31 33 00-0010 EA Laborer Minimum Charge	695.06	
Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.		
01 31 33 00-0011 EA Landscape Maintenance Worker Minimum Charge	820.06	
Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.		

01	01	General Requirements
	01 30	Administrative Requirements
	01 31	Project Management and Coordination



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 31 33 00-0012 EA Ornamental Metal Worker Minimum Charge..... Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	1,042.82	
01 31 33 00-0013 EA Painter, Ordinary Minimum Charge Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	830.13	
01 31 33 00-0014 EA Plasterer Minimum Charge Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	976.38	
01 31 33 00-0015 EA Plumber Minimum Charge Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	1,413.90	
01 31 33 00-0016 EA Roofer, Tile/Slate Minimum Charge Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	1,052.09	
01 31 33 00-0017 EA Roofer, Composite Built-Up Minimum Charge Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	1,080.99	
01 31 33 00-0018 EA Sheet Metal Worker Minimum Charge Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	1,318.35	
01 31 33 00-0019 EA Sprinkler Installer Minimum Charge..... Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	1,336.45	
01 31 33 00-0020 EA Tile Layer (Floor) Minimum Charge Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	907.21	

01 35 Special Procedures (01 30)

01 35 29 Health, Safety, and Emergency Response Procedures (01 35)

See CSI section 02 90 00 00-0000 for disaster recovery task.

01 35 29 00-0001 Emergency Response (01 35 29)

See CSI section 01 22 20 00-0001 for labor services to load and unload shipping container, 01 22 20 00-0051 for security guards, 01 22 23 00-0000 for portable equipment usage (air compressors, generators, lighting, etc.), 01 52 13 00-0029 for container usage.

01 35 29 00-0002 MI Trucking Delivery Of 20' Shipping Container	2.60
01 35 29 00-0003 MI Trucking Delivery Of 40' Shipping Container	5.21

01 35 33 Infection Control Procedures (01 35)

See CSI section 02 87 19 00-0000 for Bio-Hazard And Infectious Disease Control Remediation.

01 40 Quality Requirements (01)

01 41 Regulatory Requirements (01 40)

01 41 26 Permit Requirements (01 41)

See CSI section 01 22 16 00-0001 for reimbursable fees.

01 42 References (01 40)

01 42 13 Abbreviations and Acronyms (01 42)

Note: For specification publishing. Review specifications for requirements.

01 42 13 00-0001 NTE Abbreviations And Acronyms	0.00
---	------

Note: For specification publishing. Review specifications for requirements.

01 42 16 Definitions (01 42)

Note: For specification publishing. Review specifications for requirements.

01 42 16 00-0001 NTE Definitions	0.00
--	------

Note: For specification publishing. Review specifications for requirements.

01 42 19 Reference Standards (01 42)

Note: For specification publishing. Review specifications for requirements.

01 42 19 00-0001 NTE Reference Standards	0.00
--	------

Note: For specification publishing. Review specifications for requirements.

01 42 21 Construction Suppliers or Venor List (01 42)

Note: For specification publishing. Review specifications for requirements.

01 42 21 00-0001 NTE Construction Suppliers or Venor List	0.00
---	------

Note: For specification publishing. Review specifications for requirements.

01 45 Quality Control (01 40)

Note: Refer to section specifications for testing included with other sections.

01 45 23 Testing and Inspecting Services (01 45)

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



General Requirements		01
Quality Requirements		01 40
Quality Control		01 45

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 45 23 00-0001	Soils/Aggregate Testing (01 45 23)	
01 45 23 00-0002	Field Soils Tests (01 45 23 00-0001)	
01 45 23 00-0003	EA	Plasticity Index Soils Test, ASTM D-4318, Field Soils Test..... 341.17
01 45 23 00-0004	EA	4" Compaction Curves Soils Test, ASTM D-1557, Field Soils Test..... 484.24
01 45 23 00-0005	EA	6" Compaction Curves Soils Test, ASTM D-1557, Field Soils Test..... 550.28
01 45 23 00-0006	EA	Resistance (R) Value Soils Test, CA 301, Field Soils Test..... 440.22
01 45 23 00-0007	EA	Soils Classification Test, ASTM D-2487, Field Soils Test..... 660.33
01 45 23 00-0008	SET	Cement Treated Base Laboratory Design, Soil Cement, Field Soils Test..... 1,320.19
01 45 23 00-0009	EA	Moisture Content, Field Soils Test..... 49.51
01 45 23 00-0010	EA	UBC Or Swell Test, Field Soils Test..... 132.07
01 45 23 00-0011	EA	Proctor Compaction 4" Standard Mold ASTM D698, Field Soils Test..... 330.05
01 45 23 00-0012	EA	Proctor Compaction 6" Standard Mold, Field Soils Test..... 412.56
01 45 23 00-0013	EA	Density And Classification Test, Field Soils Test..... 100.53
01 45 23 00-0014	EA	Percolation Test, Field Soils Test..... 251.32
01 45 23 00-0015	EA	Infiltration Test, Field Soils Test..... 502.64
01 45 23 00-0016	Aggregate Testing (01 45 23 00-0001)	
01 45 23 00-0017	EA	Coarse Aggregate Sieve Analysis Test, ASTM C-136, CA 202..... 110.06
01 45 23 00-0018	EA	Fine Aggregate Sieve Analysis Test, ASTM C-136, CA 202..... 198.10
01 45 23 00-0019	EA	Combined Aggregate Sieve Analysis Test, ASTM C-136, CA 202..... 275.14
01 45 23 00-0020	EA	Sieve Analysis, Pit Run, ASTM C136..... 163.36
		Note: Includes wash.
01 45 23 00-0021	EA	Specific Special Gravity, Course, ASTM C127..... 174.86
		Note: Includes absorption test.
01 45 23 00-0022	EA	Special Gravity, Fine, ASTM C127..... 156.77
		Note: Includes absorption test.
01 45 23 00-0023	EA	Coarse Aggregate Bulk SSD Specific Gravity Test, ASTM C-128..... 233.15
01 45 23 00-0024	EA	Fine Aggregate Bulk SSD Specific Gravity Test, ASTM C-128..... 220.11
01 45 23 00-0025	EA	Aggregate Cleanness Value, ASTM C-128, CA 227..... 220.11
01 45 23 00-0026	EA	Sand Equivalent, Average of 3 Tests, ASTM D2419, CA 217..... 165.08
01 45 23 00-0027	EA	Fine Aggregate Durability Index, CA 229..... 176.09
01 45 23 00-0028	EA	Sodium And Magnesium Soundness, ASTM C88..... 462.07
01 45 23 00-0029	EA	Los Angeles Rattler, ASTM C-131, CA 211..... 352.18
01 45 23 00-0030	EA	Los Angeles Rattler, ASTM C-535..... 352.18
01 45 23 00-0031	EA	Unit Weight Of Aggregates, ASTM C29..... 99.05
01 45 23 00-0032	EA	Organic Impurities In Sand, ASTM C40..... 99.01
01 45 23 00-0033	EA	Crushed Particle, ASTM California Test Method..... 99.01
01 45 23 00-0034	EA	Clay Lump And Friable Particles, ASTM C142..... 198.03
01 45 23 00-0035	Permeability Tests (01 45 23 00-0001)	
01 45 23 00-0036	In-Place Tests (01 45 23 00-0035)	
01 45 23 00-0037	EA	Double Ring Infiltrometer Test, ASTM D3385..... 1,748.62
01 45 23 00-0038	EA	Unconfined Compressive Strength (Pocket Penetrometer) Test..... 82.51
01 45 23 00-0039	Lab Tests (01 45 23 00-0035)	
01 45 23 00-0040	EA	Falling Head Rigid Wall Consolidometer Technique CAE..... 816.02
01 45 23 00-0041	EA	Falling Head Permeability Test EPA-9100..... 816.02
01 45 23 00-0042	EA	Constant Head Permeability Test For Granular Soils, ASTM D2432..... 466.30
01 45 23 00-0043	Concrete/Cement/Asphalt Testing (01 45 23)	
01 45 23 00-0044	Concrete Testing (01 45 23 00-0043)	
01 45 23 00-0045	EA	Prepare 6 x 12 Concrete Cylinder And Deliver To Lab..... 24.39
01 45 23 00-0046	EA	6 x 12 Cylinder Concrete Compression Test, ASTM C-39 Or ASTM D1633..... 69.94
01 45 23 00-0047	EA	Concrete Cores Compression Test, ASTM C-42..... 143.07
01 45 23 00-0048	EA	6 x 6 x 18 Concrete Flexural Test, ASTM C-78..... 209.10
01 45 23 00-0049	EA	Unit Weight Of Concrete Cylinder, ASTM C-567..... 77.04
01 45 23 00-0050	EA	Concrete Mix Design Review..... 418.21
01 45 23 00-0051	EA	Trial Concrete Batch Prepared In Laboratory..... 990.50
01 45 23 00-0052	EA	Concrete Shrinkage, ASTM C-157 Modified..... 770.38
01 45 23 00-0053	EA	6 x 12 Concrete Cylinder Splitting Tensile Test, ASTM C-496..... 118.86
01 45 23 00-0054	EA	Concrete Slump Test, ASTM C143..... 55.03
01 45 23 00-0055	EA	Concrete Air Content Test, ASTM C138, ASTM C173, Or ASTM C231..... 55.03
01 45 23 00-0056	Cement Testing (01 45 23 00-0043)	
01 45 23 00-0057	EA	Cement Grab Sample (CCR Title 24)..... 55.03
		Note: Includes sealing and storing 1 year.
01 45 23 00-0058	EA	2" x 2" x 2" Cube Compression Test, All Type Materials..... 88.04
01 45 23 00-0059	Asphaltic Concrete Testing (01 45 23 00-0043)	
01 45 23 00-0060	EA	Hveem Asphaltic Concrete Stability Test, CA 366..... 110.06
01 45 23 00-0061	EA	Marshall Asphaltic Concrete Stability Test (3 Specimens), ASTM D-6926/6927..... 286.14

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 45 23 00-0062 EA Stability Tests, Premixed, ASTM D1559.....	110.06	
01 45 23 00-0063 EA Stability Tests, Lab. Mixed, ASTM D1559.....	286.14	
01 45 23 00-0064 EA Swell Test, CA 305.....	132.07	
Note: Includes compaction.		
01 45 23 00-0065 EA % Asphalt Extraction Test, ASTM D-2172 B.....	330.16	
01 45 23 00-0066 EA Maximum Theoretical Unit Weight, ASTM C2041.....	209.84	
01 45 23 00-0067 EA Unit Weight Sample Requiring Compaction, California Test Method 308.....	44.02	
01 45 23 00-0068 EA Asphalt Unit Weight On Core Test, CA 308C.....	44.02	
01 45 23 00-0069 HR Nuclear Field Density Testing, 4 Hour Minimum.....	226.71	
01 45 23 00-0070 EA Asphalt Film Stripping Test, CTM 302/AASHTO T182/ASTM D1664.....	113.09	
01 45 23 00-0071 EA Penetration, ASTM D5.....	158.98	
01 45 23 00-0072 Masonry/Concrete Block/Tile Testing (01 45 23)		
01 45 23 00-0073 Masonry Testing (01 45 23 00-0072)		
01 45 23 00-0074 EA 2" x 4" Cylinder Mortar Compression Test.....	72.64	
01 45 23 00-0075 EA 4" x 4" x 8" Grout Prisms Compression Test.....	72.64	
01 45 23 00-0076 EA Masonry Cores Compression Test.....	143.07	
01 45 23 00-0077 EA Composite Grouted Prism Compression Test.....	275.14	
01 45 23 00-0078 Concrete Block Testing (ASTM C140 Or CMA Per Specimen) (01 45 23 00-0072)		
01 45 23 00-0079 EA Up To 8" x 8" x 16" Concrete Block Compression Test, ASTM C-140.....	176.09	
01 45 23 00-0080 EA Absorption Test, Moisture Content And Unit Weight.....	121.06	
01 45 23 00-0081 EA First Unit, Moisture Condition By Relative Humidity, ASTM C427.....	462.07	
01 45 23 00-0082 EA Moisture Condition By Relative Humidity, ASTM C427, Additional Unit.....	231.03	
01 45 23 00-0083 Metals Testing (01 45 23)		
01 45 23 00-0084 Tank Line Tightness Testing (01 45 23 00-0083)		
01 45 23 00-0085 EA Up To 12,000 Gallons, Tank Line Volumetric Tightness Testing.....	581.98	
01 45 23 00-0086 EA >12,000 To 29,999 Gallons, Tank Line Volumetric Tightness Testing.....	646.24	
01 45 23 00-0087 EA >29,999 Gallons, Tank Line Volumetric Tightness Testing.....	710.26	
01 45 23 00-0088 Other Testing (01 45 23)		
01 45 23 00-0089 Special Testing (01 45 23 00-0088)		
01 45 23 00-0090 EA Asphalt Roofing Cut-out Samples, To Determine Unit Weight.....	165.02	
01 45 23 00-0091 EA Complete Built-Up Roof Analysis, ASTM D2829 Or ASTM D3617.....	990.15	
01 45 23 00-0092 EA Bacteria Test (Total Coliform Bacteria And E. Coli Bacteria).....	51.43	
01 45 23 00-0093 EA Testing For The Presence Of Polychlorinated Biphenyl (PCB) In Caulk, Analysis Per Sample.....	213.35	
01 45 23 00-0094 EA Testing For The Presence Of Polychlorinated Biphenyl (PCB) In Soil, Analysis Per Sample.....	213.35	
01 45 23 00-0095 EA Testing For The Presence Of Polychlorinated Biphenyl (PCB) Using Wipe Sampling, Analysis Per Sample.....	213.35	
01 45 23 00-0096 EA Testing For The Presence Of Polychlorinated Biphenyl (PCB) In Air, Analysis Per Sample.....	1,173.42	
01 45 23 00-0097 EA Testing And Certification Of Backflow Valves.....	687.04	
01 45 23 00-0098 Non-destructive Field Testing Services (01 45 23 00-0088)		
01 45 23 00-0099 Infrared Thermography (01 45 23 00-0098)		
Note: The following tasks use certified infrared (IR) thermographers, such as Stockton Infrared Thermographic Services, Inc. and United Infrared, Inc., to scan for specific problems and produce a report on the findings. The contractor is entitled to the mobilization charge and the appropriate square foot or hourly task.		
01 45 23 00-0100 Roof Investigation And Moisture Survey Using Infrared Thermography (01 45 23 00-0099)		
Note: For on the roof surveys.		
01 45 23 00-0101 EA Roof Investigation And Moisture Survey Using Infrared Thermography, Mobilization Charge.....	3,840.30	
01 45 23 00-0102 CSF Up To 10,000 SF, Roof Investigation And Moisture Survey Using Infrared Thermography.....	6.40	
For CADD Drawings, Add	1.28	
01 45 23 00-0103 CSF >10,000 To 50,000 SF, Roof Investigation And Moisture Survey Using Infrared Thermography.....	4.27	
For CADD Drawings, Add	0.85	
01 45 23 00-0104 CSF >50,000 To 250,000 SF, Roof Investigation And Moisture Survey Using Infrared Thermography.....	3.20	
For CADD Drawings, Add	0.64	
For Elevated Infrared Thermography Roof Investigation, Add	0.80	
For Aerial Infrared Thermography Roof Investigation, Add	0.80	
01 45 23 00-0105 CSF >250,000 SF, Roof Investigation And Moisture Survey Using Infrared Thermography.....	2.13	
For CADD Drawings, Add	0.43	
For Elevated Infrared Thermography Roof Investigation, Add	0.53	
For Aerial Infrared Thermography Roof Investigation, Add	0.53	
01 45 23 00-0106 Building Moisture Investigation Using Infrared Thermography (01 45 23 00-0099)		
Note: For finding moisture in walls and windows.		
01 45 23 00-0107 EA Building Moisture Investigation Using Infrared Thermography, Mobilization Charge.....	2,026.82	
01 45 23 00-0108 CSF Up To 1,000 SF, Building Moisture Investigation Using Infrared Thermography.....	6.40	
For Digital Or Analog Recording Of All Items, Add	3.20	
01 45 23 00-0109 CSF >1,000 To 5,000 SF, Building Moisture Investigation Using Infrared Thermography.....	4.27	
For Digital Or Analog Recording Of All Items, Add	2.14	
01 45 23 00-0110 CSF >5,000 SF, Building Moisture Investigation Using Infrared Thermography.....	2.13	
For Digital Or Analog Recording Of All Items, Add	1.07	



General Requirements			01
Quality Requirements			01 40
Quality Control			01 45

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
------------------------------	---------------------------	-------------------------

01 45 23 00-0111 General Building Investigation Using Infrared Thermography (01 45 23 00-0099)
 Note: For finding missing or misplaced insulation, air leakage and delamination.

01 45 23 00-0112	EA	General Building Investigation Using Infrared Thermography, Mobilization Charge	4,160.32
01 45 23 00-0113	CSF	Up To 1,000 SF, General Building Investigation Using Infrared Thermography	6.40
		<i>For Digital Or Analog Recording Of All Items, Add</i>	3.20
01 45 23 00-0114	CSF	>1,000 To 5,000 SF, General Building Investigation Using Infrared Thermography	4.27
		<i>For Digital Or Analog Recording Of All Items, Add</i>	2.14
01 45 23 00-0115	CSF	>5,000 SF, General Building Investigation Using Infrared Thermography	2.13
		<i>For Digital Or Analog Recording Of All Items, Add</i>	1.07

01 45 23 00-0116 Electrical /Mechanical Equipment Scanning Using Infrared Thermography (01 45 23 00-0099)
 Note: For diagnosing electrical issues such as loose connections, overloaded or imbalanced circuits, faulty breakers, damaged switches, faulty fuses, etc. For diagnosing electrical issues caused by resistance and mechanical issues caused by friction.

01 45 23 00-0117	EA	Electrical /Mechanical Equipment Scanning Using Infrared Thermography, Mobilization Charge	2,026.82
01 45 23 00-0118	HR	Electrical /Mechanical Equipment Scanning Using Infrared Thermography	273.80
		<i>For Digital Or Analog Recording Of All Items, Add</i>	41.00

01 45 23 00-0119 Concrete Block Wall Investigation Using Infrared Thermography (01 45 23 00-0099)
 Note: For investigating issues with grouted cells, bond beams and other structural components in concrete block walls.

01 45 23 00-0120	EA	Concrete Block Wall Investigation Using Infrared Thermography, Mobilization Charge	2,026.82
01 45 23 00-0121	CSF	Up To 50,000 SF, Concrete Block Wall Investigation Using Infrared Thermography	6.40
		<i>For Digital Or Analog Recording Of All Items, Add</i>	0.96
01 45 23 00-0122	CSF	>50,000 SF, Concrete Block Wall Investigation Using Infrared Thermography	4.27
		<i>For Digital Or Analog Recording Of All Items, Add</i>	0.64

01 45 23 00-0123 Other Non-destructive Field Testing Services (01 45 23 00-0098)

01 45 23 00-0124	HR	ASNT Certified Level I NDT Consultant	98.10
01 45 23 00-0125	HR	ASNT Certified Level II NDT Consultant	122.40
01 45 23 00-0126	HR	ASNT Certified Level III NDT Consultant	140.55
01 45 23 00-0127	HR	Certified Industrial Radiography Radiation Safety Personnel	146.90

01 45 23 00-0128 Testing Professional Services (01 45 23 00-0088)

01 45 23 00-0129	HR	Concrete, Steel, Masonry, Expansion Anchor And Soils Inspection	204.70
01 45 23 00-0130	HR	Laboratory Technician	198.10
01 45 23 00-0131	HR	Portable Digital Reinforcement Scanner	286.14
01 45 23 00-0132	HR	Subsurface Detection Radar System	484.24
01 45 23 00-0133	HR	Pavement Rehabilitation Analysis Using Deflectors	550.28

01 45 29 Testing Laboratory Services (01 45)
 Note: For application to existing materials/site conditions or additional testing over specifications stated tests.

01 45 29 00-0001 Soil Borings Laboratory Tests (01 45 29)

01 45 29 00-0002	EA	Atterberg Limits - Liquid Limits (LL) And Plastic Limits (PL), T89, T90, ASTM D4318, Soil Borings Laboratory Test	151.55
01 45 29 00-0003	EA	Shrinkage Limit, Soil Borings Laboratory Test	48.35
01 45 29 00-0004	EA	Unconfined Compressive Strength of Cohesive Soils, Soil Borings Laboratory Test	116.58
01 45 29 00-0005	EA	Consolidation, Soil Borings Laboratory Test	816.02
01 45 29 00-0006	EA	Swell Test, Soil Borings Laboratory Test	127.94
01 45 29 00-0007	EA	In Place Density, Soil Borings Laboratory Test	34.97
01 45 29 00-0008	EA	Moisture Content, ASTM D2216, Soil Borings Laboratory Test	21.72
01 45 29 00-0009	EA	Hydrometer Analysis, Soil Borings Laboratory Test	280.50
01 45 29 00-0010	EA	Specific Gravity, ASTM D854, Soil Borings Laboratory Test	97.79
01 45 29 00-0011	EA	Partial Sieve Analysis, Soil Borings Laboratory Test	19.34
01 45 29 00-0012	EA	Laboratory Permeability, Soil Borings Laboratory Test	966.98
01 45 29 00-0013	EA	Sieve Analysis, ASTM D422, Soil Borings Laboratory Test	195.59
01 45 29 00-0014	EA	Sulfate Soundness, Soil Borings Laboratory Test	241.74
01 45 29 00-0015	EA	Los Angeles Abrasion, Soil Borings Laboratory Test	447.49
01 45 29 00-0016	EA	Soil Bearing Ratio, ASTM D1883	495.25
01 45 29 00-0017	EA	Compaction Test Subgrade, Soil Borings Laboratory Test	145.05
01 45 29 00-0018	EA	Compaction Test Base Course, Soil Borings Laboratory Test	161.16
01 45 29 00-0019	EA	In Place Density And Water Content Test By Nuclear Methods, ASTM D6938, Soil Borings Laboratory Test	345.89
01 45 29 00-0020	EA	Field Density Sand Cone, AASHTO T-191, ASTM D1556, Soil Borings Laboratory Test	74.13

01 50 Temporary Facilities and Controls (01)

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

01 51 Temporary Utilities (01 50)

01 51 13 Temporary Electricity (01 51)

01 51 13 00-0001 Temporary Service Switch And/or Building Feeder Switch (01 51 13)

Note: Includes all connections and removal after use.

01 General Requirements**01 50 Temporary Facilities and Controls****01 51 Temporary Utilities**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 51 13 00-0002	EA		Temporary 100 Amperes, NEMA 1 Or 3R, Disconnect Switch With Fuses	1,749.61	
01 51 13 00-0003	EA		Temporary 200 Amperes, NEMA 1 Or 3R, Disconnect Switch With Fuses	2,739.40	
01 51 13 00-0004	EA		Temporary 400 Amperes, 240 Volt, NEMA 3R, Disconnect Switch With Fuses	4,936.32	
01 51 13 00-0005	EA		Temporary 600 Amperes, 240 Volt, NEMA 3R, Disconnect Switch With Fuses	7,852.29	
01 51 13 00-0006			Temporary 120/208 Volt Main Lug Panelboard Complete With Branch Fuses ^(01 51 13)		
			Note: Includes mounting on wall and removal after use.		
01 51 13 00-0007	EA		Temporary 100 Amperes, Panelboard Complete With GFCI Circuit Breakers.....	1,712.22	
01 51 13 00-0008	EA		Temporary 200 Amperes, Panelboard Complete With GFCI Circuit Breakers.....	2,488.30	
01 51 13 00-0009	EA		Temporary 400 Amperes, Panelboard Complete With GFCI Circuit Breakers.....	3,866.90	
01 51 13 00-0010	EA		Temporary 600 Amperes, Panelboard Complete With GFCI Circuit Breakers.....	5,647.07	
01 51 13 00-0011			Temporary Conduit And Cable For Temporary Disconnect Switches And Temporary Panelboards ^(01 51 13)		
			Note: Includes all connections, fittings, supports and removal after use.		
01 51 13 00-0012	LF		Temporary SER Cable (Conduit As Required) For Temporary Disconnect Switches And Temporary Panelboards	11.75	
01 51 13 00-0013	LF		Temporary Branch Circuit Conduit And Wiring For Temporary Disconnect Switches And Temporary Panelboards	12.87	
01 51 26			Temporary Lighting ^(01 51)		
01 51 26 00-0001			Temporary Lighting Devices ^(01 51 26)		
			Note: Includes removal after use.		
01 51 26 00-0002	EA		Temporary Exit Light.....	334.61	
01 51 26 00-0003	EA		Temporary 10 Light String With Cages.....	126.71	
01 51 26 00-0004	EA		Temporary High Bay Light.....	485.07	
01 52			Construction Facilities ^(01 50)		
			Note: Tasks in this section shall be used as directed by owner for owner's use.		
01 52 13			Field Offices and Sheds ^(01 52)		
01 52 13 00-0001			Field Offices and Office Trailers ^(01 52 13)		
			Note: Excludes furniture, utility connections and service. Minimum 6 months rental. See CSI section 01 52 13 00-0015 for furniture, skirting, and steps.		
01 52 13 00-0002	MO		8' x 24' Mobile Office, With Toilet.....	184.67	
			For Each Delivery And Removal, Two Round Trips, Add	1,242.34	
			For Each Set-Up (Block And Level), Add	430.60	
			For Each Anchoring Into Dirt, Add	131.31	
			For Each Anchoring Into Asphalt Or Concrete, Add	196.96	
			For Office Trailer Without Toilet, Deduct	-36.93	
01 52 13 00-0003	MO		8' x 32' Mobile Office, With Toilet.....	209.29	
			For Each Delivery And Removal, Two Round Trips, Add	1,242.34	
			For Each Set-Up (Block And Level), Add	430.60	
			For Each Anchoring Into Dirt, Add	131.31	
			For Each Anchoring Into Asphalt Or Concrete, Add	196.96	
			For Office Trailer Without Toilet, Deduct	-41.86	
01 52 13 00-0004	MO		10' x 36' Mobile Office, With Toilet.....	283.16	
			For Each Delivery And Removal, Two Round Trips, Add	1,863.51	
			For Each Set-Up (Block And Level), Add	702.55	
			For Each Anchoring Into Dirt, Add	131.31	
			For Each Anchoring Into Asphalt Or Concrete, Add	196.96	
			For Office Trailer Without Toilet, Deduct	-56.63	
01 52 13 00-0005	MO		10' x 40' Mobile Office, With Toilet.....	301.63	
			For Each Delivery And Removal, Two Round Trips, Add	1,863.51	
			For Each Set-Up (Block And Level), Add	702.55	
			For Each Anchoring Into Dirt, Add	131.31	
			For Each Anchoring Into Asphalt Or Concrete, Add	196.96	
			For Office Trailer Without Toilet, Deduct	-60.33	
01 52 13 00-0006	MO		10' x 44' Mobile Office, With Toilet.....	332.40	
			For Each Delivery And Removal, Two Round Trips, Add	1,863.51	
			For Each Set-Up (Block And Level), Add	702.55	
			For Each Anchoring Into Dirt, Add	131.31	
			For Each Anchoring Into Asphalt Or Concrete, Add	196.96	
01 52 13 00-0007	MO		10' x 50' Mobile Office, With Toilet.....	350.87	
			For Each Delivery And Removal, Two Round Trips, Add	1,863.51	
			For Each Set-Up (Block And Level), Add	702.55	
			For Each Anchoring Into Dirt, Add	131.31	
			For Each Anchoring Into Asphalt Or Concrete, Add	196.96	
01 52 13 00-0008	MO		12' x 32' Mobile Office, With Toilet.....	271.46	
			For Each Anchoring Into Dirt, Add	131.31	
			For Each Anchoring Into Asphalt Or Concrete, Add	196.96	
			For Each Delivery And Removal, Two Round Trips, Add	723.04	
			For Each Set-Up (Block And Level), Add	566.58	
01 52 13 00-0009	MO		12' x 44' Mobile Office, With Toilet.....	362.94	
			For Each Delivery And Removal, Two Round Trips, Add	1,863.51	
			For Each Set-Up (Block And Level), Add	702.55	
			For Each Anchoring Into Dirt, Add	131.31	
			For Each Anchoring Into Asphalt Or Concrete, Add	196.96	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 52 13 00-0010 MO 12' x 50' Mobile Office, With Toilet.....	412.43	
For Each Delivery And Removal, Two Round Trips, Add	1,863.51	
For Each Set-Up (Block And Level), Add	702.55	
For Each Anchoring Into Dirt, Add	131.31	
For Each Anchoring Into Asphalt Or Concrete, Add	196.96	
01 52 13 00-0011 MO 12' x 60' Mobile Office, With Toilet.....	449.36	
For Each Delivery And Removal, Two Round Trips, Add	1,863.51	
For Each Set-Up (Block And Level), Add	702.55	
For Each Anchoring Into Dirt, Add	131.31	
For Each Anchoring Into Asphalt Or Concrete, Add	196.96	
01 52 13 00-0012 MO 24' x 60' Modular Office, With Toilet.....	984.89	
For Each Delivery And Removal, Two Round Trips, Add	3,727.01	
For Each Set-Up (Block And Level), Add	1,133.15	
For Each Anchoring Into Dirt, Add	131.31	
For Each Anchoring Into Asphalt Or Concrete, Add	196.96	
01 52 13 00-0013 MO 24' x 72' Modular Office, With Toilet.....	1,181.87	
For Each Delivery And Removal, Two Round Trips, Add	3,727.01	
For Each Set-Up (Block And Level), Add	1,133.15	
For Each Anchoring Into Dirt, Add	131.31	
For Each Anchoring Into Asphalt Or Concrete, Add	196.96	
01 52 13 00-0014 MO 30' x 30' Modular Office, With Toilet.....	561.70	
For Each Delivery And Removal, Two Round Trips, Add	3,727.01	
For Each Set-Up (Block And Level), Add	1,133.15	
For Each Anchoring Into Dirt, Add	131.31	
For Each Anchoring Into Asphalt Or Concrete, Add	196.96	
01 52 13 00-0015 Accessories For Field Office Trailers (01 52 13)		
Note: Costs includes installation or placement in trailer.		
01 52 13 00-0016 MO Desk For Field Office Trailer.....	56.78	
01 52 13 00-0017 MO Rolling Desk Chair For Field Office Trailer.....	35.49	
01 52 13 00-0018 MO File Cabinet For Field Office Trailer.....	42.59	
01 52 13 00-0019 MO Table For Field Office Trailer.....	28.39	
01 52 13 00-0020 MO Folding Chair For Field Office Trailer.....	13.45	
01 52 13 00-0021 EA Phone Hook-Up For Field Office Trailer.....	156.15	
01 52 13 00-0022 MO Local Phone Service Per Phone Line For Field Office Trailer.....	99.37	
01 52 13 00-0023 MO Security System With Monitoring For Field Office Trailer.....	178.91	
01 52 13 00-0024 LF Perimeter Trailer Vinyl Skirting For Field Office Trailer.....	15.76	
01 52 13 00-0025 LF Insulated Perimeter Trailer Vinyl Skirting For Field Office Trailer.....	37.33	
01 52 13 00-0026 MO Steps For Field Office Trailer.....	45.96	
01 52 13 00-0027 MO Fax Machine For Field Office Trailer.....	70.98	
01 52 13 00-0028 MO Copier For Field Office Trailer.....	113.56	
01 52 13 00-0029 Storage Containers (01 52 13)		
01 52 13 00-0030 MO 8' x 8' x 10' Storage Container.....	252.35	
For Each Delivery And Removal, Two Round Trips, Add	185.78	
For >12 Months, Deduct	-75.71	
01 52 13 00-0031 MO 8' x 8' x 20' Storage Container.....	263.82	
For Each Delivery And Removal, Two Round Trips, Add	204.36	
For >12 Months, Deduct	-79.15	
01 52 13 00-0032 MO 8' x 8' x 40' Storage Container.....	312.00	
For Each Delivery And Removal, Two Round Trips, Add	411.58	
For >12 Months, Deduct	-93.60	
01 52 19 Sanitary Facilities (01 52)		
01 52 19 00-0001 Portable Toilets (01 52 19)		
Note: Includes set-up, servicing once per week (unless task states otherwise) and removal.		
01 52 19 00-0002 WK Portable Chemical Toilet.....	67.83	
For Each Additional Servicing Per Unit Per Week, Add	25.00	
For Each Delivery And Set-up, Add	52.00	
01 52 19 00-0003 MO Portable Chemical Toilet.....	203.49	
For Each Additional Servicing Per Unit Per Week, Add	25.00	
For Each Delivery And Set-up, Add	52.00	
01 52 19 00-0004 WK Americans With Disabilities Act Compliant Portable Chemical Toilet.....	80.90	
For Each Additional Servicing Per Unit Per Week, Add	25.00	
For Each Delivery And Set-up, Add	52.00	
01 52 19 00-0005 MO Americans With Disabilities Act Compliant Portable Chemical Toilet.....	237.41	
For Each Additional Servicing Per Unit Per Week, Add	25.00	
For Each Delivery And Set-up, Add	52.00	
01 52 19 00-0006 WK Two Station Portable Handwash.....	54.40	
For Each Delivery And Set-up, Add	52.00	
01 52 19 00-0007 MO Two Station Portable Handwash.....	165.03	
For Each Delivery And Set-up, Add	52.00	
01 52 19 00-0008 MO 6 Station, Portable Toilets, Multi Trailer.....	4,582.08	
Note: Includes women's room (3 toilets, 2 sinks) and men's room (1 toilet, 1 urinal and 1 sink). Excludes servicing.		
For Each Delivery, Set-up And Removal, Two Round Trips, Add	1,242.34	
01 52 19 00-0009 WK Service 6 Station Trailer Restrooms, 3 Times Per Week.....	2,029.66	
For One Additional Service Per Week, Add	676.56	
Note: For one less service per week, UOM to be negative one (-1)		

01	01	General Requirements
	01 50	Temporary Facilities and Controls
	01 53	Temporary Construction



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
------------------------------	---------------------------	-------------------------

01 53 Temporary Construction (01 50)

01 53 16 Temporary Decking (01 53)

01 53 16 00-0001 Temporary Walkways And Railings (01 53 16)

Note: Includes removal after use.

01 53 16 00-0002	SF	Temporary Wood Walkway, 3/4" Plywood On 2 x 6 Stringers	8.11
01 53 16 00-0003	LF	Temporary Wooden Guardrail, 42" High, Posts, Handrail, And Intermediate Rail	36.41
01 53 16 00-0004	LF	Temporary Wood Guardrail Base, 12" x 12" Timber Beam.....	15.15
01 53 16 00-0005	RSR	Temporary Wood Stairs, Tread And Riser On 2" x 12" Stringers.....	27.42

01 53 23 Temporary Ramps (01 53)

01 53 23 00-0001 Temporary Plywood For Wheel Barrow Access (01 53 23)

Note: Includes removal after use.

01 53 23 00-0002	SF	Temporary Plywood For Wheel Barrow Access.....	1.68	0.55
------------------	----	--	------	------

01 54 Construction Aids (01 50)

01 54 09 Personnel Protection Equipment (01 54)

01 54 09 00-0001 Personnel Protection Equipment (01 54 09)

Note: Personnel Protection Equipment (PPE) for workers safety is considered as part of the Contractor's and Workers responsibility. Includes, but are not limited to; protective work gloves, hearing protection, protective clothing, reflective vests, safety glasses or face shields, dust masks, hard hats, appropriate foot protection (slip resistant, puncture-resistant soles, safety-toed), safety harnesses with lifeline, etc. Review JOC Note and specifications for requirements.

01 54 09 00-0002	NTE	Personnel Protection Equipment	0.00
------------------	-----	--------------------------------------	------

Note: For specification publishing. Review specifications for requirements.

01 54 23 Temporary Scaffolding and Platforms (01 54)

01 54 23 00-0001 Scaffolding (01 54 23)

Note: Additional scaffolding rental for work above the normal working height.

01 54 23 00-0002 Scaffolding Rental - Rental Only (01 54 23 00-0001)

Note: Monthly rental of actual scaffolding volume rented. Scaffolding is complete with bracing, 2" thick x 12" wide scaffolding planks, scaffolding stairs (where necessary in lieu of planks), standard accessories, base leveling devices, mud sills, climbing ladders and landings, brackets, clamps and building ties, etc. See CSI section 01 54 23 00-0006 for scaffolding erection and dismantling.

01 54 23 00-0003	CCF	Scaffolding With Bracing Accessories - Area Based On 5' Wide Sections (CCF / Month).....	29.48
		For Up To 25, Add	11.79
		For >25 To 50, Add	7.37
		For >50 To 150, Add	2.95
01 54 23 00-0004	CCF	Scaffolding With Bracing Accessories - Area Based On 4' Wide Sections (CCF / Month).....	33.15
		For Up To 25, Add	13.26
		For >25 To 50, Add	8.29
		For >50 To 150, Add	3.32
01 54 23 00-0005	CCF	Scaffolding With Bracing Accessories - Area Based On 3' Wide Sections (CCF / Month).....	44.22
		For Up To 25, Add	17.69
		For >25 To 50, Add	11.06
		For >50 To 150, Add	4.42

01 54 23 00-0006 Scaffolding Erection And Dismantling - Labor Only (01 54 23 00-0001)

Note: Includes both initial erection and final dismantling. Excludes lifting equipment. The unit of measure is the volume of scaffolding erected. See CSI section 01 54 23 00-0002 for scaffolding rental.

01 54 23 00-0007	CCF	Up To 20' Height Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories	48.51
01 54 23 00-0008	CCF	>20' To 40' Height Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories	63.61
01 54 23 00-0009	CCF	>40' To 60' Height Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories	84.89
01 54 23 00-0010	CCF	>60' To 80' Height Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories	93.38
01 54 23 00-0011	CCF	>80' Height Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories	107.53
01 54 23 00-0012	CCF	Up To 20' Height Scaffolding Initial Erection And Final Dismantling Set Up On Stairs, Per CCF Of Scaffolding And Accessories	67.92

01 54 23 00-0013 Heavy Duty Masonry Scaffolding Rental - Rental Only (01 54 23 00-0001)

Note: Monthly rental of actual scaffolding volume rented. For projects over 2 stories. Scaffolding is complete with bracing, 2" thick x 12" wide scaffolding planks, scaffolding stairs (where necessary in lieu of planks), standard accessories, base leveling devices, mud sills, climbing ladders and landings, brackets, clamps, flat plate, connectors and building ties, etc. See CSI section 01 54 23 00-0019 for erection.

01 54 23 00-0014	CCF	Heavy Duty Masonry Scaffolding With Bracing Accessories - Area Based On 4' Wide Sections (CCF / Month).....	67.90
01 54 23 00-0015	CCF	Heavy Duty Masonry Scaffolding With Bracing Accessories - Area Based On 2' Wide Sections (CCF / Month).....	124.49
01 54 23 00-0016	LF	Aluminum Joists (LF / Month)	11.04
01 54 23 00-0017	LF	Aluminum Stringers (LF / Month)	15.83
01 54 23 00-0018	EA	Screw Jack With U-Plate For Stringers (EA / Month).....	19.95

01 54 23 00-0019 Heavy Duty Masonry Scaffolding Erection And Dismantling - Labor Only (01 54 23 00-0001)

Note: Includes both initial erection and final dismantling. Excludes lifting equipment. The unit of measure is the volume of scaffolding erected. See CSI section 01 54 23 00-0013 for scaffolding rental.



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 54 23 00-0020 CCF Up To 20' Height Heavy Duty Masonry Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories.....	90.55	
01 54 23 00-0021 CCF >20' To 40' Height Heavy Duty Masonry Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories.....	113.19	
01 54 23 00-0022 CCF >40' To 60' Height Heavy Duty Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories.....	135.83	
01 54 23 00-0023 CCF >60' To 80' Height Heavy Duty Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories.....	147.15	
01 54 23 00-0024 CCF >80' Height Heavy Duty Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories.....	164.12	
01 54 23 00-0025 Scaffolding Accessories (01 54 23 00-0001) See CSI section 01 54 23 00-0019 for erection.		
01 54 23 00-0026 CSF Netting for Exterior Building Scaffolding Note: Includes removal after use.	41.41	
01 54 23 00-0027 Rolling Scaffolding (01 54 23) Note: Includes moving and relocating scaffolding on site. Excludes initial erection and final dismantling of scaffold.		
01 54 23 00-0028 DAY >14' To 20', Rolling Scaffolding, Complete With Wheels, Railings, Etc., (5' Wide X 7' Long Section)	12.58	
01 54 23 00-0029 WK >14' To 20', Rolling Scaffolding, Complete With Wheels, Railings, Etc., (5' Wide X 7' Long Section)	50.41	
01 54 23 00-0030 MO >14' To 20', Rolling Scaffolding, Complete With Wheels, Railings, Etc., (5' Wide X 7' Long Section)	201.63	
01 54 23 00-0031 DAY >20' To 40', Rolling Scaffolding, Complete With Wheels, Railings, Etc., (5' Wide X 7' Long Section)	21.06	
01 54 23 00-0032 WK >20' To 40', Rolling Scaffolding, Complete With Wheels, Railings, Etc., (5' Wide X 7' Long Section)	84.35	
01 54 23 00-0033 MO >20' To 40', Rolling Scaffolding, Complete With Wheels, Railings, Etc., (5' Wide X 7' Long Section)	337.44	
01 54 23 00-0034 EA >14' To 20', Rolling Scaffolding Initial Erection And Final Dismantling For Each Scaffold.....	105.39	
01 54 23 00-0035 EA >20' To 40', Rolling Scaffolding Initial Erection And Final Dismantling For Each Scaffold.....	131.73	
01 54 23 00-0036 Shoring Posts (01 54 23)		
01 54 23 00-0037 DAY 6'-6" To 11' Extension, 5,000 LB Capacity, Steel Shoring Post	2.07	
01 54 23 00-0038 WK 6'-6" To 11' Extension, 5,000 LB Capacity, Steel Shoring Post	8.30	
01 54 23 00-0039 MO 6'-6" To 11' Extension, 5,000 LB Capacity, Steel Shoring Post	24.89	
01 54 23 00-0040 EA Initial Erection And Final Dismantling For Each Shoring Post	8.44	
For >20 To 50, Deduct	-1.27	
For >50 To 100, Deduct	-2.95	
For >100, Deduct	-4.64	
01 54 23 00-0041 Temporary Lumber, Single Use (01 54 23) Note: Includes removal after use.		
01 54 23 00-0042 SF 5/16" CD Grade Plywood, Temporary Lumber	2.64	
01 54 23 00-0043 SF 1/2" CD Grade Plywood, Temporary Lumber	2.98	
01 54 23 00-0044 SF 5/8" CD Grade Plywood, Temporary Lumber	3.28	
01 54 23 00-0045 SF 3/4" CD Grade Plywood, Temporary Lumber	3.58	
01 54 23 00-0046 SF 1" CD Grade Plywood, Temporary Lumber	5.19	
01 54 23 00-0047 LF 2" x 4" Temporary Lumber	3.47	
01 54 23 00-0048 LF 2" x 6" Temporary Lumber	4.40	
01 54 23 00-0049 LF 2" x 8" Temporary Lumber	5.33	
01 54 23 00-0050 LF 2" x 10" Temporary Lumber	6.27	
01 54 23 00-0051 LF 2" x 12" Temporary Lumber	7.20	
01 54 23 00-0052 LF 3" x 8" Temporary Lumber	7.20	
01 54 23 00-0053 LF 3" x 10" Temporary Lumber	8.60	
01 54 23 00-0054 LF 3" x 12" Temporary Lumber	10.01	
01 54 23 00-0055 LF 4" x 4" Temporary Lumber	4.70	
01 54 23 00-0056 LF 4" x 6" Temporary Lumber	6.75	
01 54 23 00-0057 LF 6" x 6" Temporary Lumber	8.80	
01 54 23 00-0058 LF 6" x 8" Temporary Lumber	11.43	
01 54 23 00-0059 LF 12" x 12" Temporary Lumber	28.03	
01 54 23 00-0060 Temporary Precast Concrete Blocks (01 54 23) Note: Includes removal after use.		
01 54 23 00-0061 EA 2' x 2' x 2' Temporary Precast Concrete (Ecology) Block	130.73	
Note: Includes removal after use.		
01 54 23 00-0062 EA 2' x 2' x 4' Temporary Precast Concrete (Ecology) Block	163.41	
Note: Includes removal after use.		
01 54 23 00-0063 EA 2' x 2' x 8' Temporary Precast Concrete (Ecology) Block	219.72	
Note: Includes removal after use.		
01 54 26 Temporary Swing Staging (01 54) Note: Up to one month rental. Includes connection to existing electrical outlet on roof, all necessary safety equipment for personnel and anchoring to existing roof anchors. Excludes installing roof anchors.		
01 54 26 00-0001 Swing Stage (01 54 26) Note: Up to one month rental. Includes connection to existing electrical outlet on roof, and all necessary safety equipment for personnel. Excludes installing roof anchors.		
01 54 26 00-0002 MO 7' Swing Stage, Electric Operated	2,984.71	
01 54 26 00-0003 MO 10' Swing Stage, Electric Operated	3,133.94	
01 54 26 00-0004 MO 14' Swing Stage, Electric Operated	3,283.18	

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



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 54 26 00-0005 MO 20' Swing Stage, Electric Operated	3,432.41	
01 54 26 00-0006 MO 24' Swing Stage, Electric Operated	3,581.65	
01 54 26 00-0007 MO 30' Swing Stage, Electric Operated	3,730.88	
01 54 26 00-0008 MO 42' Swing Stage, Electric Operated	3,880.12	
01 54 26 00-0009 MO 12' Swing Stage, Manually Operated	860.69	
01 54 26 00-0010 MO 24' Swing Stage, Manually Operated	1,075.86	
01 54 26 00-0011 EA Swing Stage Platform From Hooks, Erection And Dismantling	4,492.85	
Note: Includes both initial erection and final dismantling of platform. Excludes anchors or temporary roof mounted outrigger system.		
01 54 26 00-0012 EA Swing Stage Platform And Temporary Roof Mounted Outrigger System Erection And Dismantling	6,243.60	
Note: Includes both initial erection and final dismantling of temporary roof mounted outrigger system.		
01 54 26 00-0013 EA Move Swing Stage Platform From Hooks To Different Location At Same Roof	2,362.44	
01 54 26 00-0014 EA Move Swing Stage Platform and Temporary Roof Mounted Outrigger System To Different Location At Same Roof	3,290.54	

01 55 Vehicular Access and Parking (01 50)

01 55 23 Temporary Roads (01 55)

01 55 23 00-0001 Temporary Stabilized Construction Entrance (01 55 23)

Note: As per Caltrans detail.

01 55 23 00-0002 SF 3" To 4" Rock Temporary Stabilized Construction Entrance Assembly	4.17	
Note: Includes up to 12" excavation of pit, hauling and disposal of soil, filter fabric at base and sides, filled with rock, and compaction.		
01 55 23 00-0003 SF >4" To 6" Rock Temporary Stabilized Construction Entrance Assembly	5.65	
Note: Includes up to 12" excavation of pit, hauling and disposal of soil, filter fabric at base and sides, filled with rock, and compaction.		

01 55 23 00-0004 Rumble Trench Plate (01 55 23)

01 55 23 00-0005 MO 8' x 10' Steel Rumble Trench Plate Rental	398.66	
01 55 23 00-0006 EA Placement And Removal Of Rumble Plate	94.00	
Note: If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rentals tasks, 01 71 13 00-0000 for mobilization tasks.		
01 55 23 00-0007 EA Relocate And Adjust Location Of Rumble Plate	23.50	
Note: If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rentals tasks, 01 71 13 00-0000 for mobilization tasks.		

01 55 23 00-0008 Temporary Road Ramps (Godwin) (01 55 23)

Note: Excludes asphalt and gravel.

01 55 23 00-0009 EA 4" Pipeline, 12' Passable Vehicle Width, Temporary Road Ramp (Godwin)	4,871.98	208.67
01 55 23 00-0010 EA 6" Pipeline, 12' Passable Vehicle Width, Temporary Road Ramp (Godwin)	6,630.09	313.01
01 55 23 00-0011 EA 8" Pipeline, 12' Passable Vehicle Width, Temporary Road Ramp (Godwin)	9,162.92	417.34
01 55 23 00-0012 EA 12" Pipeline, 12' Passable Vehicle Width, Temporary Road Ramp (Godwin)	19,055.60	521.67
01 55 23 00-0013 EA 24" Pipeline, 15' Passable Vehicle Width, Temporary Road Ramp (Godwin)	27,979.86	626.01

01 55 26 Traffic Control (01 55)

01 55 26 00-0001 Temporary Removable Preformed Traffic Black Line Mask (01 55 26)

Note: Includes installation and removal after use.

01 55 26 00-0002 LF 6" Removable Traffic Black Line Mask	5.11	
01 55 26 00-0003 LF 8" Removable Traffic Black Line Mask	6.19	

01 55 26 00-0004 Temporary Preformed Traffic Line Tape (01 55 26)

Note: Includes installation and removal after use.

01 55 26 00-0005 LF 4" Reflective Removable Traffic Line Tape	5.17	
01 55 26 00-0006 LF 6" Reflective Removable Traffic Line Tape	7.07	
01 55 26 00-0007 LF 8" Reflective Removable Traffic Line Tape	8.88	

01 55 26 00-0008 Temporary Painted Traffic Lines (01 55 26)

Note: Includes installation and removal after use.

01 55 26 00-0009 LF 4" Temporary Painted Traffic Lines	2.35	
<i>For Not Removed, Deduct</i> -1.59		
01 55 26 00-0010 LF 6" Temporary Painted Traffic Lines	3.09	
<i>For Not Removed, Deduct</i> -2.14		
01 55 26 00-0011 LF 8" Temporary Painted Traffic Lines	3.86	
<i>For Not Removed, Deduct</i> -2.71		
01 55 26 00-0012 EA 2" High x 2" Wide Temporary Overlay Pavement Markers, "L" With Factory-Applied Adhesive Pad	3.33	
01 55 26 00-0013 EA 2" High x 4" Wide Temporary Overlay Pavement Markers, "L" With Factory-Applied Adhesive Pad	3.36	

01 55 26 00-0014 Temporary Pedestrian Traffic Control (01 55 26)

01 55 26 00-0015 CLF 1", 4 Mil Polyethylene Printed Barricade Tape, Fluorescent Orange	9.72	
01 55 26 00-0016 CLF 2", 4 Mil Polyethylene Printed Barricade Tape, Fluorescent Orange	12.64	
01 55 26 00-0017 CLF 3/4", 4 Mil Polyethylene Printed Barricade Tape, Fluorescent Yellow	7.72	
01 55 26 00-0018 CLF 2", 4 Mil Polyethylene Printed Barricade Tape, Fluorescent Yellow	9.43	
01 55 26 00-0019 CLF 3", 4 Mil Polyethylene Printed Barricade Tape, Non-Fluorescent	10.21	
01 55 26 00-0020 CLF 6", 4 Mil Polyethylene Printed Barricade Tape, Non-Fluorescent	13.90	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 55 26 00-0021 CLF 1" Exterior Vinyl Tape (Warning Tape)	11.44	
01 55 26 00-0022 CLF 2" Exterior Vinyl Tape (Warning Tape)	15.91	
01 55 26 00-0023 CLF 3" Exterior Vinyl Tape (Warning Tape)	19.83	
01 55 26 00-0024 CLF 4" Exterior Vinyl Tape (Warning Tape)	23.19	
01 55 26 00-0025 Linear Delineation System, Temporary Or Permanent <small>(01 55 26)</small>		
<small>Note: High visibility reflective sheeting strips. Scotchlite as manufactured by 3M.</small>		
01 55 26 00-0026 LF 4" Linear Delineation System	11.18	
01 55 26 00-0027 LF 6" Linear Delineation System	15.17	
01 55 26 00-0028 Temporary Traffic Protection <small>(01 55 26)</small>		
01 55 26 00-0029 Temporary Portable Traffic Control Device Usage <small>(01 55 26 00-0028)</small>		
<small>Note: Excludes placing and removing devices. See CSI section 01 55 26 00-0104 for delivery, placing and removal.</small>		
01 55 26 00-0030 DAY 28" Cone With Reflective Collar	0.86	
01 55 26 00-0031 WK 28" Cone With Reflective Collar	2.57	
01 55 26 00-0032 MO 28" Cone With Reflective Collar	7.70	
01 55 26 00-0033 DAY Vertical Panel	2.59	
01 55 26 00-0034 WK Vertical Panel	7.76	
01 55 26 00-0035 MO Vertical Panel	23.27	
01 55 26 00-0036 DAY Channelizer Drum	2.81	
01 55 26 00-0037 WK Channelizer Drum	8.42	
01 55 26 00-0038 MO Channelizer Drum	25.26	
01 55 26 00-0039 DAY Stackable Channelizer Panel	1.33	
01 55 26 00-0040 WK Stackable Channelizer Panel	3.98	
01 55 26 00-0041 MO Stackable Channelizer Panel	11.95	
01 55 26 00-0042 DAY Type I Barricade, Up To 3' Wide With Reflective Rail Each Side	1.84	
01 55 26 00-0043 WK Type I Barricade, Up To 3' Wide With Reflective Rail Each Side	5.51	
01 55 26 00-0044 MO Type I Barricade, Up To 3' Wide With Reflective Rail Each Side	16.54	
01 55 26 00-0045 DAY Type II Barricade, Up To 3' Wide With Two Reflective Rails Each Side	4.07	
01 55 26 00-0046 WK Type II Barricade, Up To 3' Wide With Two Reflective Rails Each Side	12.22	
01 55 26 00-0047 MO Type II Barricade, Up To 3' Wide With Two Reflective Rails Each Side	36.66	
01 55 26 00-0048 DAY Type III Barricade, Up To 5' Wide With Three Reflective Rails	4.64	
01 55 26 00-0049 WK Type III Barricade, Up To 5' Wide With Three Reflective Rails	13.93	
01 55 26 00-0050 MO Type III Barricade, Up To 5' Wide With Three Reflective Rails	41.79	
01 55 26 00-0051 DAY Type III Barricade, >5' To 10' Wide With Three Reflective Rails	8.49	
01 55 26 00-0052 WK Type III Barricade, >5' To 10' Wide With Three Reflective Rails	25.48	
01 55 26 00-0053 MO Type III Barricade, >5' To 10' Wide With Three Reflective Rails	76.43	
01 55 26 00-0054 DAY Up To 10' Wide A Frame Barricade	4.66	
01 55 26 00-0055 WK Up To 10' Wide A Frame Barricade	13.97	
01 55 26 00-0056 MO Up To 10' Wide A Frame Barricade	41.92	
01 55 26 00-0057 DAY Type A Or C Flasher	0.95	
01 55 26 00-0058 WK Type A Or C Flasher	2.85	
01 55 26 00-0059 MO Type A Or C Flasher	8.54	
01 55 26 00-0060 DAY Type B Flasher (High Intensity)	5.15	
01 55 26 00-0061 WK Type B Flasher (High Intensity)	15.45	
01 55 26 00-0062 MO Type B Flasher (High Intensity)	46.35	
01 55 26 00-0063 Temporary Traffic Barriers Usage <small>(01 55 26 00-0028)</small>		
<small>Note: Excludes placing and removing devices. See CSI section 01 55 26 00-0104 for delivery, placing and removal.</small>		
01 55 26 00-0064 DAY 6' Long Portable Parking Curbs	2.22	
01 55 26 00-0065 WK 6' Long Portable Parking Curbs	6.65	
01 55 26 00-0066 MO 6' Long Portable Parking Curbs	19.96	
01 55 26 00-0067 DAY 6' Long Portable Speed Bumps	6.56	
01 55 26 00-0068 WK 6' Long Portable Speed Bumps	19.69	
01 55 26 00-0069 MO 6' Long Portable Speed Bumps	59.08	
01 55 26 00-0070 DAY Up To 12.5' Concrete Traffic Barrier	15.77	
01 55 26 00-0071 WK Up To 12.5' Concrete Traffic Barrier	47.31	
01 55 26 00-0072 MO Up To 12.5' Concrete Traffic Barrier	141.93	
01 55 26 00-0073 DAY >12.5' To 20' Concrete Traffic Barrier	31.54	
01 55 26 00-0074 WK >12.5' To 20' Concrete Traffic Barrier	94.62	
01 55 26 00-0075 MO >12.5' To 20' Concrete Traffic Barrier	283.86	
01 55 26 00-0076 DAY 6' x 32" Tall Plastic Water Barrier	18.83	
01 55 26 00-0077 WK 6' x 32" Tall Plastic Water Barrier	56.50	
01 55 26 00-0078 MO 6' x 32" Tall Plastic Water Barrier	169.49	
01 55 26 00-0079 DAY 6' x 46" Tall Plastic Water Barrier	26.89	
01 55 26 00-0080 WK 6' x 46" Tall Plastic Water Barrier	80.67	
01 55 26 00-0081 MO 6' x 46" Tall Plastic Water Barrier	242.01	
01 55 26 00-0082 DAY Sand Filled Crash Attenuator Barrels	10.53	
01 55 26 00-0083 WK Sand Filled Crash Attenuator Barrels	31.58	
01 55 26 00-0084 MO Sand Filled Crash Attenuator Barrels	94.73	
01 55 26 00-0085 Temporary Portable Signs And Message Displays Usage <small>(01 55 26 00-0028)</small>		
<small>Note: Excludes placing and removing devices. See CSI section 01 55 26 00-0104 for delivery, placing and removal.</small>		
01 55 26 00-0086 DAY Mesh Or Vinyl Roll-up Sign With Stand	8.26	

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



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 55 26 00-0087 WK Mesh Or Vinyl Roll-up Sign With Stand	24.79	
01 55 26 00-0088 MO Mesh Or Vinyl Roll-up Sign With Stand	74.37	
01 55 26 00-0089 DAY Aluminum Sign And Post	4.12	
01 55 26 00-0090 WK Aluminum Sign And Post	12.35	
01 55 26 00-0091 MO Aluminum Sign And Post	37.06	
01 55 26 00-0092 DAY Aluminum Sign And A Frame Stand	6.25	
01 55 26 00-0093 WK Aluminum Sign And A Frame Stand	18.74	
01 55 26 00-0094 MO Aluminum Sign And A Frame Stand	56.23	
01 55 26 00-0095 DAY Trailer Mounted Flashing Arrow Board	149.00	
01 55 26 00-0096 WK Trailer Mounted Flashing Arrow Board	412.41	
01 55 26 00-0097 MO Trailer Mounted Flashing Arrow Board	1,090.89	
01 55 26 00-0098 DAY Trailer Mounted Portable Variable Message Sign (PVMS)	388.98	
01 55 26 00-0099 WK Trailer Mounted Portable Variable Message Sign (PVMS)	1,037.28	
01 55 26 00-0100 MO Trailer Mounted Portable Variable Message Sign (PVMS)	2,074.56	
01 55 26 00-0101 DAY Two Head, Trailer Mounted Traffic Signal System (Set Of Two)	1,405.67	
Note: Consists of a set of two communicating trailers. Each with two LED traffic light head, solar panels and a battery bank, mounted on a heavy-duty towable trailer.		
01 55 26 00-0102 WK Two Head, Trailer Mounted Traffic Signal System (Set Of Two)	4,217.01	
Note: Consists of a set of two communicating trailers. Each with two LED traffic light head, solar panels and a battery bank, mounted on a heavy-duty towable trailer.		
01 55 26 00-0103 MO Two Head, Trailer Mounted Traffic Signal System (Set Of Two)	12,651.03	
Note: Consists of a set of two communicating trailers. Each with two LED traffic light head, solar panels and a battery bank, mounted on a heavy-duty towable trailer.		
01 55 26 00-0104	Place And Remove Temporary Traffic Protection Using Truck <small>(01 55 26 00-0028)</small>	
Note: Includes delivery and return up to 15 miles. See CSI section 01 74 19 00-0039 for delivery >15 miles.		
01 55 26 00-0105 EA Placement And Removal Of Up To 250 Cones Using Truck	3.68	
01 55 26 00-0106 EA Placement And Removal Of >250 Cones Using Truck	3.22	
01 55 26 00-0107 EA Placement And Removal Of Up To 250 Panels/Channelizers Using Truck	6.08	
01 55 26 00-0108 EA Placement And Removal Of >250 Panels/Channelizers Using Truck	5.07	
01 55 26 00-0109 EA Placement And Removal Of Up To 250 Barricades Using Truck	9.22	
01 55 26 00-0110 EA Placement And Removal Of >250 Barricades Using Truck	7.37	
01 55 26 00-0111 EA Placement And Removal Of Curbs/Speed Bumps Using Truck	9.22	
01 55 26 00-0112 EA Placement And Removal Of Portable Sign And Stand Using Truck	5.53	
01 55 26 00-0113 EA Placement And Removal Of Aluminum Sign And Post Using Truck	23.04	
01 55 26 00-0114 EA Placement And Removal Of Trailer Mounted Boards And Signals Using Truck	69.11	
01 55 26 00-0115 EA Placement And Removal Of Up To 12.5' Concrete Traffic Barrier	94.00	
Note: If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rentals tasks, 01 71 13 00-0000 for mobilization tasks.		
For 1 Barrier, Add		235.00
For 2 Barriers, Add		84.60
For 3 Barriers, Add		28.20
01 55 26 00-0116 EA Placement And Removal Of >12.5' Concrete Traffic Barrier	141.00	
Note: If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rentals tasks, 01 71 13 00-0000 for mobilization tasks.		
For 1 Barrier, Add		352.50
For 2 Barriers, Add		126.90
For 3 Barriers, Add		42.30
01 55 26 00-0117 EA Placement And Removal Of Plastic Water Barrier	54.20	
Note: Includes water. If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rental tasks, 01 71 13 00-0000 for mobilization tasks.		
For 1 Barrier, Add		117.50
For 2 Barriers, Add		42.30
For 3 Barriers, Add		14.10
01 55 26 00-0118 EA Placement And Removal Of Crash Attenuator Barrels	70.50	
Note: If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rentals tasks, 01 71 13 00-0000 for mobilization tasks.		
For 1 Barrier, Add		176.25
For 2 Barriers, Add		63.45
For 3 Barriers, Add		21.15
01 55 26 00-0119	Place And Remove Temporary Traffic Protection From Roadside (Daily) <small>(01 55 26 00-0028)</small>	
01 55 26 00-0120 EA Placement And Removal Of Up To 250 Cones By Hand From Roadside	2.30	
01 55 26 00-0121 EA Placement And Removal Of >250 Cones By Hand From Roadside	1.85	
01 55 26 00-0122 EA Placement And Removal Of Up To 250 Panels/Channelizers By Hand From Roadside	3.07	
01 55 26 00-0123 EA Placement And Removal Of >250 Panels/Channelizers By Hand From Roadside	2.44	
01 55 26 00-0124 EA Placement And Removal Of Up To 250 Barricades By Hand From Roadside	4.61	
01 55 26 00-0125 EA Placement And Removal Of >250 Barricades By Hand From Roadside	3.68	
01 55 26 00-0126 EA Placement And Removal Of Portable Sign And Stand From Roadside	2.73	
01 55 26 00-0127 EA Placement And Removal Of Trailer Mounted Boards And Signals From Roadside	34.56	
01 55 26 00-0128 EA Roadside Relocation Of Concrete Traffic Barrier	47.00	
Note: Excludes flatbed truck. If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rental tasks, 01 71 13 00-0000 for mobilization.		
01 55 26 00-0129	Temporary Rumble Strips <small>(01 55 26)</small>	
Note: Includes removal after use.		
01 55 26 00-0130 LF 1/4" High, 4" Wide, Polymer Tape Temporary Rumble Strip	13.37	
01 55 26 00-0131 LF 1/2" High, 3-1/2" Wide, Polycarbonate Temporary Rumble Strip	9.58	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
------------------------------	---------------------------	-------------------------

01 56 Temporary Barriers and Enclosures (01 50)

Note: Includes removal after use.

01 56 16 Temporary Dust Barriers (01 56)

01 56 16 00-0001 Temporary Sheeting For Protection (01 56 16)

Note: Includes removal after use.

01 56 16 00-0002	SF	6 Mil, Plastic Sheeting, Applied To Floors	0.36
01 56 16 00-0003	SF	6 Mil, Plastic Sheeting, Applied To Walls.....	0.47
01 56 16 00-0004	SF	6 Mil, Plastic Sheeting, Applied To Ceilings.....	0.62
01 56 16 00-0005	SF	6 Mil, Plastic Sheeting, Applied To Scaffolding.....	0.62
01 56 16 00-0006	SF	6 Mil, Fire Retardant, Plastic Sheeting, Applied To Floors.....	0.45
01 56 16 00-0007	SF	6 Mil, Fire Retardant, Plastic Sheeting, Applied To Walls.....	0.56
01 56 16 00-0008	SF	6 Mil, Fire Retardant, Plastic Sheeting, Applied To Ceilings.....	0.71
01 56 16 00-0009	SF	6 Mil, Fire Retardant, Plastic Sheeting, Applied To Scaffolding.....	0.67
01 56 16 00-0010	SF	10 Mil, Fire Retardant, Reinforced, Plastic Sheeting, Applied To Scaffolding.....	0.87
01 56 16 00-0011	SF	6 Mil, Fire Retardant, Anti-static, Plastic Sheeting, Applied To Floors.....	0.47
01 56 16 00-0012	SF	6 Mil, Fire Retardant, Anti-static, Plastic Sheeting, Applied To Walls.....	0.58
01 56 16 00-0013	SF	6 Mil, Fire Retardant, Anti-static, Plastic Sheeting, Applied To Ceilings.....	0.73
01 56 16 00-0014	SF	6 Mil, Fire Retardant, Anti-static, Plastic Sheeting, Applied To Scaffolding.....	0.69
01 56 16 00-0015	SF	6 Mil, Reinforced, Plastic Sheeting, Applied To Floors.....	0.46
01 56 16 00-0016	SF	6 Mil, Reinforced, Plastic Sheeting, Applied To Walls.....	0.57
01 56 16 00-0017	SF	6 Mil, Reinforced, Plastic Sheeting, Applied To Ceilings.....	0.72
01 56 16 00-0018	SF	6 Mil, Reinforced, Plastic Sheeting, Applied To Scaffolding.....	0.68
01 56 16 00-0019	SF	6 Mil, Fire Retardant, Reinforced, Plastic Sheeting, Applied To Floors.....	0.54
01 56 16 00-0020	SF	6 Mil, Fire Retardant, Reinforced, Plastic Sheeting, Applied To Walls.....	0.65
01 56 16 00-0021	SF	6 Mil, Fire Retardant, Reinforced, Plastic Sheeting, Applied To Ceilings.....	0.80
01 56 16 00-0022	SF	6 Mil, Fire Retardant, Reinforced, Plastic Sheeting, Applied To Scaffolding.....	0.76

01 56 16 00-0023 Accessories For Temporary Sheeting (01 56 16)

Note: Includes removal after use.

01 56 16 00-0024	EA	7' Zipper Door For Plastic Sheeting	23.80
01 56 16 00-0025	LF	Zip Wall Kit And ICRA Dust Control Awareness Barrier (Per LF Of Wall).....	9.55

Note: Includes up to 12' long spring loaded poles, side clamps, foam rails and 6 mil poly barrier. Excludes zip doors.

01 56 16 00-0026 Temporary Critical Barriers For Protection (01 56 16)

Note: Includes removal after use.

01 56 16 00-0027	EA	Up To 1 SF Individual Critical Barriers.....	12.86
Note: For Outlets And Receptacles			
01 56 16 00-0028	EA	>1 To 4 SF Individual Critical Barriers	19.51
Note: For diffusers, ceiling speakers, return grilles, etc.			
01 56 16 00-0029	EA	>4 To 8 SF Individual Critical Barriers	26.23
Note: For diffusers, return grilles, access doors, light fixtures, etc.			
01 56 16 00-0030	EA	>8 To 32 SF Individual Critical Barriers	40.96
Note: For doors, windows, etc.			

01 56 16 00-0031 Temporary Stud Wall (01 56 16)

Note: Includes removal after use.

01 56 16 00-0032 Temporary Stud Wall With Drywall (01 56 16 00-0031)

Note: Includes 2 x 4 wood studs installed 16" on center, single bottom and top plate, appropriate fastening devices, drywall taped and finished and removal after use. Excludes paint.

01 56 16 00-0033 Temporary Stud Wall With Drywall (01 56 16 00-0032)

01 56 16 00-0034	SF	3/8" Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center	6.89
For Metal Studs 24" On Center, Add/Deduct			0.44
01 56 16 00-0035	SF	1/2" Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center	6.89
For Metal Studs 24" On Center, Add/Deduct			0.44
01 56 16 00-0036	SF	5/8" Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center	7.00
For Metal Studs 24" On Center, Add/Deduct			0.44
01 56 16 00-0037	SF	3/8" Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center.....	9.53
For Metal Studs 24" On Center, Add/Deduct			0.55
01 56 16 00-0038	SF	1/2" Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center.....	9.53
For Metal Studs 24" On Center, Add/Deduct			0.55
01 56 16 00-0039	SF	5/8" Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center.....	9.75
For Metal Studs 24" On Center, Add/Deduct			0.55

01 56 16 00-0040 Temporary Stud Wall With Fire Rated Drywall (01 56 16 00-0032)

01 56 16 00-0041	SF	1/2" Type C Fire Rated Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center.....	7.02
For Metal Studs 24" On Center, Add/Deduct			0.44
01 56 16 00-0042	SF	5/8" Type C Fire Rated Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center.....	7.06
For Metal Studs 24" On Center, Add/Deduct			0.44
01 56 16 00-0043	SF	5/8" Type X Fire Rated Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center.....	6.99
For Metal Studs 24" On Center, Add/Deduct			0.44
01 56 16 00-0044	SF	3/4" Fire Rated (Sheetrock® Ultracode®) Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center.....	7.84
For Metal Studs 24" On Center, Add/Deduct			0.44

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



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 16 00-0045 SF 1/2" Type C Fire Rated Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center.....	9.78	
<i>For Metal Studs 24" On Center, Add/Deduct</i>	<i>0.55</i>	
01 56 16 00-0046 SF 5/8" Type C Fire Rated Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center.....	9.86	
<i>For Metal Studs 24" On Center, Add/Deduct</i>	<i>0.55</i>	
01 56 16 00-0047 SF 5/8" Type X Fire Rated Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center.....	9.73	
<i>For Metal Studs 24" On Center, Add/Deduct</i>	<i>0.55</i>	
01 56 16 00-0048 SF 3/4" Fire Rated (Sheetrock® Ultracode®) Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center.....	11.43	
<i>For Metal Studs 24" On Center, Add/Deduct</i>	<i>0.55</i>	
01 56 16 00-0049 Temporary Stud Wall With Oriented Strand Board (OSB) <small>(01 56 16 00-0031)</small>		
<i>Note: Includes 2 x 4 wood studs installed 16" on center, single bottom and top plate, appropriate fastening devices, oriented strand board (OSB) wall sheathing, and removal after use. Excludes paint.</i>		
01 56 16 00-0050 SF 7/16" Oriented Strand Board (OSB) Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center.....	6.72	
<i>For Metal Studs 24" On Center, Add/Deduct</i>	<i>0.44</i>	
01 56 16 00-0051 SF 1/2" Oriented Strand Board (OSB) Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center.....	6.76	
<i>For Metal Studs 24" On Center, Add/Deduct</i>	<i>0.44</i>	
01 56 16 00-0052 SF 5/8" Oriented Strand Board (OSB) Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center.....	6.89	
<i>For Metal Studs 24" On Center, Add/Deduct</i>	<i>0.44</i>	
01 56 16 00-0053 SF 3/4" Oriented Strand Board (OSB) Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center.....	6.96	
<i>For Metal Studs 24" On Center, Add/Deduct</i>	<i>0.44</i>	
01 56 16 00-0054 SF 7/16" Oriented Strand Board (OSB) Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center.....	9.18	
<i>For Metal Studs 24" On Center, Add/Deduct</i>	<i>0.55</i>	
01 56 16 00-0055 SF 1/2" Oriented Strand Board (OSB) Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center.....	9.27	
<i>For Metal Studs 24" On Center, Add/Deduct</i>	<i>0.55</i>	
01 56 16 00-0056 SF 5/8" Oriented Strand Board (OSB) Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center.....	9.53	
<i>For Metal Studs 24" On Center, Add/Deduct</i>	<i>0.55</i>	
01 56 16 00-0057 SF 3/4" Oriented Strand Board (OSB) Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center.....	9.66	
<i>For Metal Studs 24" On Center, Add/Deduct</i>	<i>0.55</i>	
01 56 16 00-0058 Temporary Stud Wall With BC Plywood <small>(01 56 16 00-0031)</small>		
<i>Note: Includes 2 x 4 wood studs installed 16" on center, single bottom and top plate, appropriate fastening devices, interior/exterior BC plywood wall sheathing, and removal after use. Excludes paint.</i>		
01 56 16 00-0059 SF 3/8" BC Plywood Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center.....	7.02	
<i>For Metal Studs 24" On Center, Add/Deduct</i>	<i>0.44</i>	
01 56 16 00-0060 SF 1/2" BC Plywood Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center.....	7.19	
<i>For Metal Studs 24" On Center, Add/Deduct</i>	<i>0.44</i>	
01 56 16 00-0061 SF 5/8" BC Plywood Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center.....	7.37	
<i>For Metal Studs 24" On Center, Add/Deduct</i>	<i>0.44</i>	
01 56 16 00-0062 SF 3/4" BC Plywood Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center.....	7.51	
<i>For Metal Studs 24" On Center, Add/Deduct</i>	<i>0.44</i>	
01 56 16 00-0063 SF 3/8" BC Plywood Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center.....	9.79	
<i>For Metal Studs 24" On Center, Add/Deduct</i>	<i>0.55</i>	
01 56 16 00-0064 SF 1/2" BC Plywood Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center.....	10.12	
<i>For Metal Studs 24" On Center, Add/Deduct</i>	<i>0.55</i>	
01 56 16 00-0065 SF 5/8" BC Plywood Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center.....	10.49	
<i>For Metal Studs 24" On Center, Add/Deduct</i>	<i>0.55</i>	
01 56 16 00-0066 SF 3/4" BC Plywood Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center.....	10.77	
<i>For Metal Studs 24" On Center, Add/Deduct</i>	<i>0.55</i>	
01 56 16 00-0067 Temporary Stud Wall With Plastic Sheeting <small>(01 56 16 00-0031)</small>		
<i>Note: Includes 2 x 4 wood studs installed 16" on center, single bottom and top plate, appropriate fastening devices, 6 Mil plastic sheathing, and removal after use.</i>		
01 56 16 00-0068 SF 6 Mil, Plastic Sheeting On One Side, Temporary Wood Stud Wall, 16" On Center.....	3.98	
<i>For Metal Studs 24" On Center, Add/Deduct</i>	<i>0.32</i>	
01 56 16 00-0069 SF 6 Mil, Fire Retardant, Plastic Sheeting On One Side, Temporary Wood Stud Wall, 16" On Center.....	4.06	
<i>For Metal Studs 24" On Center, Add/Deduct</i>	<i>0.32</i>	
01 56 16 00-0070 SF 6 Mil, Fire Retardant, Anti-static, Plastic Sheeting On One Side, Temporary Wood Stud Wall, 16" On Center.....	4.08	
<i>For Metal Studs 24" On Center, Add/Deduct</i>	<i>0.32</i>	
01 56 16 00-0071 SF 6 Mil, Reinforced, Plastic Sheeting On One Side, Temporary Wood Stud Wall, 16" On Center.....	4.08	
<i>For Metal Studs 24" On Center, Add/Deduct</i>	<i>0.32</i>	
01 56 16 00-0072 SF 6 Mil, Fire Retardant, Reinforced, Plastic Sheeting On One Side, Temporary Wood Stud Wall, 16" On Center.....	4.15	
<i>For Metal Studs 24" On Center, Add/Deduct</i>	<i>0.32</i>	
01 56 16 00-0073 Temporary Doors <small>(01 56 16 00-0031)</small>		
<i>Note: For temporary stud walls. Includes removal after use.</i>		
01 56 16 00-0074 EA Temporary Metal Door And Frame.....	673.82	
<i>Note: Painted with panic hardware, lockset, threshold and smoke seals. Remove after use.</i>		
01 56 16 00-0075 Temporary Floor Protection <small>(01 56 16)</small>		
<i>Note: Includes removal after use.</i>		
01 56 16 00-0076 SF 1/8" Thick, Masonite For Temporary Floor Protection.....	1.73	
01 56 16 00-0077 SF 1/2" Thick, Plywood For Temporary Floor Protection.....	1.75	
01 56 16 00-0078 SF 3/4" Thick, Plywood For Temporary Floor Protection.....	2.06	
01 56 16 00-0079 LF 38" Wide, 46 Mil Fiberboard, Ram Board® For Temporary Floor Protection.....	1.04	
01 56 16 00-0080 LF 36" Wide, 9 Mil, Regular Weight Red Rosin Paper, For Temporary Floor Protection.....	0.33	
01 56 16 00-0081 CSF 3 Mil, Temporary Self-adhesive Carpet Protection Film.....	26.63	
01 56 16 00-0082 SF Burlap For Temporary Floor Protection.....	0.69	



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

10

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
------------------------------	---------------------------	-------------------------

01 56 16 00-0083	Sticky Mats <small>(01 56 16)</small>		
	Note: Includes removal after use.		
01 56 16 00-0084	EA 18" x 36", 30 Layer Sticky Mat.....	37.11	
	For 60 Layers Instead Of 30, Add	24.67	
01 56 16 00-0085	EA 18" x 46", 30 Layer Sticky Mat.....	42.59	
	For 60 Layers Instead Of 30, Add	28.78	
01 56 16 00-0086	EA 24" x 36", 30 Layer Sticky Mat.....	42.59	
	For 60 Layers Instead Of 30, Add	28.78	
01 56 16 00-0087	EA 25" x 45", 30 Layer Sticky Mat.....	56.30	
	For 60 Layers Instead Of 30, Add	39.06	
01 56 16 00-0088	EA 36" x 36", 30 Layer Sticky Mat.....	61.78	
	For 60 Layers Instead Of 30, Add	43.17	
01 56 16 00-0089	EA 36" x 46", 30 Layer Sticky Mat.....	67.26	
	For 60 Layers Instead Of 30, Add	47.28	
01 56 16 00-0090	EA 36" x 60", 30 Layer Sticky Mat.....	135.78	
	For 60 Layers Instead Of 30, Add	98.67	
01 56 16 00-0091	EA 36" x 72", 30 Layer Sticky Mat.....	162.09	

01 56 26 Temporary Fencing (01 56)

01 56 26 00-0001	Temporary Fencing <small>(01 56 26)</small>		
	Note: Per ASTM A392-06 Standards		
01 56 26 00-0002	Temporary Chain Link Fence <small>(01 56 26 00-0001)</small>		
	Note: Includes delivery, set-up (driving posts) and removal. Excludes auguring/drilling for posts.		
01 56 26 00-0003	Temporary Chain Link Fence, Up To 6 Months <small>(01 56 26 00-0002)</small>		
01 56 26 00-0004	LF Temporary 4' High Chain Link Fence And Posts, Up To 6 Months.....	6.36	
	For >100 To 250, Deduct	-0.15	
	For >250 To 500, Deduct	-0.30	
	For >500, Deduct	-0.45	
	For Each LF Shade Cloth, Add	1.60	
01 56 26 00-0005	LF Temporary 6' High Chain Link Fence And Posts, Up To 6 Months.....	7.08	
	For >100 To 250, Deduct	-0.17	
	For >250 To 500, Deduct	-0.34	
	For >500, Deduct	-0.51	
	For Each LF Shade Cloth, Add	2.55	
01 56 26 00-0006	LF Temporary 8' High Chain Link Fence And Posts, Up To 6 Months.....	9.75	
	For >100 To 250, Deduct	-0.29	
	For >250 To 500, Deduct	-0.57	
	For >500, Deduct	-0.86	
	For Each LF Shade Cloth, Add	3.60	
01 56 26 00-0007	LF Temporary 10' High Chain Link Fence And Posts, Up To 6 Months.....	21.43	
	For >100 To 250, Deduct	-0.85	
	For >250 To 500, Deduct	-1.70	
	For >500, Deduct	-2.54	
	For Each LF Shade Cloth, Add	4.75	
01 56 26 00-0008	Temporary Chain Link Fence, >6 To 12 Months <small>(01 56 26 00-0002)</small>		
01 56 26 00-0009	LF Temporary 4' High Chain Link Fence And Posts, >6 To 12 Months.....	6.67	
	For >100 To 250, Deduct	-0.17	
	For >250 To 500, Deduct	-0.33	
	For >500, Deduct	-0.50	
	For Each LF Shade Cloth, Add	1.60	
01 56 26 00-0010	LF Temporary 6' High Chain Link Fence And Posts, >6 To 12 Months.....	7.42	
	For >100 To 250, Deduct	-0.19	
	For >250 To 500, Deduct	-0.37	
	For >500, Deduct	-0.56	
	For Each LF Shade Cloth, Add	2.55	
01 56 26 00-0011	LF Temporary 8' High Chain Link Fence And Posts, >6 To 12 Months.....	10.31	
	For >100 To 250, Deduct	-0.31	
	For >250 To 500, Deduct	-0.63	
	For >500, Deduct	-0.94	
	For Each LF Shade Cloth, Add	3.60	
01 56 26 00-0012	LF Temporary 10' High Chain Link Fence And Posts, >6 To 12 Months.....	23.12	
	For >100 To 250, Deduct	-0.93	
	For >250 To 500, Deduct	-1.86	
	For >500, Deduct	-2.80	
	For Each LF Shade Cloth, Add	4.75	
01 56 26 00-0013	Temporary Chain Link Fence, >12 To 18 Months <small>(01 56 26 00-0002)</small>		
01 56 26 00-0014	LF Temporary 4' High Chain Link Fence And Posts, >12 To 18 Months.....	7.00	
	For >100 To 250, Deduct	-0.18	
	For >250 To 500, Deduct	-0.36	
	For >500, Deduct	-0.54	
	For Each LF Shade Cloth, Add	1.60	
01 56 26 00-0015	LF Temporary 6' High Chain Link Fence And Posts, >12 To 18 Months.....	7.80	
	For >100 To 250, Deduct	-0.20	
	For >250 To 500, Deduct	-0.41	
	For >500, Deduct	-0.61	
	For Each LF Shade Cloth, Add	2.55	

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



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 26 00-0016 LF Temporary 8' High Chain Link Fence And Posts, >12 To 18 Months	10.95	
For >100 To 250, Deduct	-0.35	
For >250 To 500, Deduct	-0.69	
For >500, Deduct	-1.04	
For Each LF Shade Cloth, Add	3.60	
01 56 26 00-0017 LF Temporary 10' High Chain Link Fence And Posts, >12 To 18 Months	24.98	
For >100 To 250, Deduct	-1.03	
For >250 To 500, Deduct	-2.05	
For >500, Deduct	-3.08	
For Each LF Shade Cloth, Add	4.75	
01 56 26 00-0018 Temporary Chain Link Fence, >18 Months (01 56 26 00-0002)		
01 56 26 00-0019 LF Temporary 4' High Chain Link Fence And Posts, >18 Months.....	7.36	
For >100 To 250, Deduct	-0.20	
For >250 To 500, Deduct	-0.40	
For >500, Deduct	-0.60	
For Each LF Shade Cloth, Add	1.60	
01 56 26 00-0020 LF Temporary 6' High Chain Link Fence And Posts, >18 Months.....	8.18	
For >100 To 250, Deduct	-0.22	
For >250 To 500, Deduct	-0.45	
For >500, Deduct	-0.67	
For Each LF Shade Cloth, Add	2.55	
01 56 26 00-0021 LF Temporary 8' High Chain Link Fence And Posts, >18 Months.....	11.63	
For >100 To 250, Deduct	-0.38	
For >250 To 500, Deduct	-0.76	
For >500, Deduct	-1.14	
For Each LF Shade Cloth, Add	3.60	
01 56 26 00-0022 LF Temporary 10' High Chain Link Fence And Posts, >18 Months.....	27.03	
For >100 To 250, Deduct	-1.13	
For >250 To 500, Deduct	-2.26	
For >500, Deduct	-3.38	
For Each LF Shade Cloth, Add	4.75	
01 56 26 00-0023 Temporary Chain Link Fence Gates (01 56 26 00-0001)		
Note: Includes delivery, set-up (driving posts) and removal. Excludes auguring/drilling for posts. See CSI section 02 41 19 13-0024 for core drilling in asphalt or concrete.		
01 56 26 00-0024 Temporary Chain Link Fence Gates, Up To 6 Months (01 56 26 00-0023)		
01 56 26 00-0025 4' High, Temporary Chain Link Fence Gates, Up To 6 Months (01 56 26 00-0024)		
01 56 26 00-0026 EA 4' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	253.82	
For Each LF Shade Cloth, Add	14.23	
01 56 26 00-0027 EA 10' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	431.39	
For Each LF Shade Cloth, Add	35.57	
01 56 26 00-0028 EA 12' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	483.02	
For Each LF Shade Cloth, Add	42.68	
01 56 26 00-0029 EA 15' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	549.83	
For Each LF Shade Cloth, Add	53.35	
01 56 26 00-0030 EA 20' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	658.55	
For Each LF Shade Cloth, Add	71.14	
01 56 26 00-0031 EA 24' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	733.06	
For Each LF Shade Cloth, Add	85.36	
01 56 26 00-0032 6' High, Temporary Chain Link Fence Gates, Up To 6 Months (01 56 26 00-0024)		
01 56 26 00-0033 EA 4' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	271.77	
For Each LF Shade Cloth, Add	22.67	
01 56 26 00-0034 EA 10' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	465.96	
For Each LF Shade Cloth, Add	56.69	
01 56 26 00-0035 EA 12' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	522.88	
For Each LF Shade Cloth, Add	68.02	
01 56 26 00-0036 EA 15' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	605.97	
For Each LF Shade Cloth, Add	85.03	
01 56 26 00-0037 EA 20' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	732.47	
For Each LF Shade Cloth, Add	113.37	
01 56 26 00-0038 EA 24' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	831.24	
For Each LF Shade Cloth, Add	136.05	
01 56 26 00-0039 8' High, Temporary Chain Link Fence Gates, Up To 6 Months (01 56 26 00-0024)		
01 56 26 00-0040 EA 4' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	303.50	
For Each LF Shade Cloth, Add	32.01	
01 56 26 00-0041 EA 10' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	534.07	
For Shade Cloth, Add	80.03	
01 56 26 00-0042 EA 12' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	597.28	
For Shade Cloth, Add	96.03	
01 56 26 00-0043 EA 15' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	683.78	
For Shade Cloth, Add	120.04	
01 56 26 00-0044 EA 20' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	835.67	
For Shade Cloth, Add	160.06	
01 56 26 00-0045 EA 24' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	970.00	
For Shade Cloth, Add	192.07	



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

10

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 26 00-0046 10' High, Temporary Chain Link Fence Gates, Up To 6 Months <small>(01 56 26 00-0024)</small>		
01 56 26 00-0047 EA 4' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	367.65	
For Each LF Shade Cloth, Add	42.24	
01 56 26 00-0048 EA 10' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	640.39	
For Each LF Shade Cloth, Add	105.59	
01 56 26 00-0049 EA 12' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	717.61	
For Each LF Shade Cloth, Add	126.71	
01 56 26 00-0050 EA 15' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	820.34	
For Each LF Shade Cloth, Add	158.39	
01 56 26 00-0051 EA 20' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	1,002.82	
For Each LF Shade Cloth, Add	211.18	
01 56 26 00-0052 EA 24' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	1,158.69	
For Each LF Shade Cloth, Add	253.42	
01 56 26 00-0053 Temporary Chain Link Fence Gates, >6 To 12 Months <small>(01 56 26 00-0023)</small>		
01 56 26 00-0054 4' High, Temporary Chain Link Fence Gates, >6 To 12 Months <small>(01 56 26 00-0053)</small>		
01 56 26 00-0055 EA 4' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	263.35	
For Each LF Shade Cloth, Add	14.23	
01 56 26 00-0056 EA 10' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	446.21	
For Each LF Shade Cloth, Add	35.57	
01 56 26 00-0057 EA 12' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	499.96	
For Each LF Shade Cloth, Add	42.68	
01 56 26 00-0058 EA 15' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	568.89	
For Each LF Shade Cloth, Add	53.35	
01 56 26 00-0059 EA 20' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	681.84	
For Each LF Shade Cloth, Add	71.14	
01 56 26 00-0060 EA 24' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	758.47	
For Each LF Shade Cloth, Add	85.36	
01 56 26 00-0061 6' High, Temporary Chain Link Fence Gates, >6 To 12 Months <small>(01 56 26 00-0053)</small>		
01 56 26 00-0062 EA 4' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	281.73	
For Each LF Shade Cloth, Add	22.67	
01 56 26 00-0063 EA 10' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	481.45	
For Each LF Shade Cloth, Add	56.69	
01 56 26 00-0064 EA 12' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	540.59	
For Each LF Shade Cloth, Add	68.02	
01 56 26 00-0065 EA 15' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	625.89	
For Each LF Shade Cloth, Add	85.03	
01 56 26 00-0066 EA 20' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	756.82	
For Each LF Shade Cloth, Add	113.37	
01 56 26 00-0067 EA 24' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	857.80	
For Each LF Shade Cloth, Add	136.05	
01 56 26 00-0068 8' High, Temporary Chain Link Fence Gates, >6 To 12 Months <small>(01 56 26 00-0053)</small>		
01 56 26 00-0069 EA 4' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	314.46	
For Each LF Shade Cloth, Add	32.01	
01 56 26 00-0070 EA 10' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	551.11	
For Shade Cloth, Add	80.03	
01 56 26 00-0071 EA 12' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	616.76	
For Shade Cloth, Add	96.03	
01 56 26 00-0072 EA 15' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	705.69	
For Shade Cloth, Add	120.04	
01 56 26 00-0073 EA 20' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	862.45	
For Shade Cloth, Add	160.06	
01 56 26 00-0074 EA 24' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	999.22	
For Shade Cloth, Add	192.07	
01 56 26 00-0075 10' High, Temporary Chain Link Fence Gates, >6 To 12 Months <small>(01 56 26 00-0053)</small>		
01 56 26 00-0076 EA 4' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	381.34	
For Each LF Shade Cloth, Add	42.24	
01 56 26 00-0077 EA 10' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	661.69	
For Each LF Shade Cloth, Add	105.59	
01 56 26 00-0078 EA 12' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	741.96	
For Each LF Shade Cloth, Add	126.71	
01 56 26 00-0079 EA 15' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	847.73	
For Each LF Shade Cloth, Add	158.39	
01 56 26 00-0080 EA 20' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	1,036.29	
For Each LF Shade Cloth, Add	211.18	
01 56 26 00-0081 EA 24' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	1,195.22	
For Each LF Shade Cloth, Add	253.42	
01 56 26 00-0082 Temporary Chain Link Fence Gates, >12 To 18 Months <small>(01 56 26 00-0023)</small>		
01 56 26 00-0083 4' High, Temporary Chain Link Fence Gates, >12 To 18 Months <small>(01 56 26 00-0082)</small>		

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



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 26 00-0084 EA 4' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months	273.55	
For Each LF Shade Cloth, Add	14.23	
01 56 26 00-0085 EA 10' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months	461.77	
For Each LF Shade Cloth, Add	35.57	
01 56 26 00-0086 EA 12' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months	517.74	
For Each LF Shade Cloth, Add	42.68	
01 56 26 00-0087 EA 15' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months	588.89	
For Each LF Shade Cloth, Add	53.35	
01 56 26 00-0088 EA 20' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months	706.29	
For Each LF Shade Cloth, Add	71.14	
01 56 26 00-0089 EA 24' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months	785.15	
For Each LF Shade Cloth, Add	85.36	
01 56 26 00-0090 6' High, Temporary Chain Link Fence Gates, >12 To 18 Months (01 56 26 00-0082)		
01 56 26 00-0091 EA 4' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months	292.19	
For Each LF Shade Cloth, Add	22.67	
01 56 26 00-0092 EA 10' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months	497.72	
For Each LF Shade Cloth, Add	56.69	
01 56 26 00-0093 EA 12' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months	559.18	
For Each LF Shade Cloth, Add	68.02	
01 56 26 00-0094 EA 15' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months	646.80	
For Each LF Shade Cloth, Add	85.03	
01 56 26 00-0095 EA 20' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months	782.38	
For Each LF Shade Cloth, Add	113.37	
01 56 26 00-0096 EA 24' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months	885.68	
For Each LF Shade Cloth, Add	136.05	
01 56 26 00-0097 8' High, Temporary Chain Link Fence Gates, >12 To 18 Months (01 56 26 00-0082)		
01 56 26 00-0098 EA 4' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months	325.96	
For Each LF Shade Cloth, Add	32.01	
01 56 26 00-0099 EA 10' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months	569.01	
For Shade Cloth, Add	80.03	
01 56 26 00-0100 EA 12' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months	637.21	
For Shade Cloth, Add	96.03	
01 56 26 00-0101 EA 15' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months	728.70	
For Shade Cloth, Add	120.04	
01 56 26 00-0102 EA 20' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months	890.57	
For Shade Cloth, Add	160.06	
01 56 26 00-0103 EA 24' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months	1,029.90	
For Shade Cloth, Add	192.07	
01 56 26 00-0104 10' High, Temporary Chain Link Fence Gates, >12 To 18 Months (01 56 26 00-0082)		
01 56 26 00-0105 EA 4' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months	395.72	
For Each LF Shade Cloth, Add	42.24	
01 56 26 00-0106 EA 10' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months	684.06	
For Each LF Shade Cloth, Add	105.59	
01 56 26 00-0107 EA 12' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months	767.52	
For Each LF Shade Cloth, Add	126.71	
01 56 26 00-0108 EA 15' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months	876.49	
For Each LF Shade Cloth, Add	158.39	
01 56 26 00-0109 EA 20' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months	1,071.44	
For Each LF Shade Cloth, Add	211.18	
01 56 26 00-0110 EA 24' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months	1,233.56	
For Each LF Shade Cloth, Add	253.42	
01 56 26 00-0111 Temporary Chain Link Fence Gates, >18 Months (01 56 26 00-0023)		
01 56 26 00-0112 4' High, Temporary Chain Link Fence Gates, >18 Months (01 56 26 00-0111)		
01 56 26 00-0113 EA 4' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months	283.35	
For Each LF Shade Cloth, Add	14.23	
01 56 26 00-0114 EA 10' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months	477.33	
For Each LF Shade Cloth, Add	35.57	
01 56 26 00-0115 EA 12' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months	535.53	
For Each LF Shade Cloth, Add	42.68	
01 56 26 00-0116 EA 15' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months	608.90	
For Each LF Shade Cloth, Add	53.35	
01 56 26 00-0117 EA 20' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months	730.74	
For Each LF Shade Cloth, Add	71.14	
01 56 26 00-0118 EA 24' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months	811.82	
For Each LF Shade Cloth, Add	85.36	
01 56 26 00-0119 6' High, Temporary Chain Link Fence Gates, >18 Months (01 56 26 00-0111)		
01 56 26 00-0120 EA 4' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months	302.65	
For Each LF Shade Cloth, Add	22.67	
01 56 26 00-0121 EA 10' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months	513.99	
For Each LF Shade Cloth, Add	56.69	
01 56 26 00-0122 EA 12' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months	577.77	
For Each LF Shade Cloth, Add	68.02	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 26 00-0123 EA 15' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months	667.72	
For Each LF Shade Cloth, Add	85.03	
01 56 26 00-0124 EA 20' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months	807.95	
For Each LF Shade Cloth, Add	113.37	
01 56 26 00-0125 EA 24' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months	913.57	
For Each LF Shade Cloth, Add	136.05	
01 56 26 00-0126 8' High, Temporary Chain Link Fence Gates, >18 Months (01 56 26 00-0111)		
01 56 26 00-0127 EA 4' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months	337.47	
For Each LF Shade Cloth, Add	32.01	
01 56 26 00-0128 EA 10' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months	586.90	
For Shade Cloth, Add	80.03	
01 56 26 00-0129 EA 12' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months	657.67	
For Shade Cloth, Add	96.03	
01 56 26 00-0130 EA 15' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months	751.71	
For Shade Cloth, Add	120.04	
01 56 26 00-0131 EA 20' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months	918.69	
For Shade Cloth, Add	160.06	
01 56 26 00-0132 EA 24' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months	1,060.57	
For Shade Cloth, Add	192.07	
01 56 26 00-0133 10' High, Temporary Chain Link Fence Gates, >18 Months (01 56 26 00-0111)		
01 56 26 00-0134 EA 4' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months	410.10	
For Each LF Shade Cloth, Add	42.24	
01 56 26 00-0135 EA 10' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months	706.43	
For Each LF Shade Cloth, Add	105.59	
01 56 26 00-0136 EA 12' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months	793.09	
For Each LF Shade Cloth, Add	126.71	
01 56 26 00-0137 EA 15' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months	905.25	
For Each LF Shade Cloth, Add	158.39	
01 56 26 00-0138 EA 20' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months	1,106.60	
For Each LF Shade Cloth, Add	211.18	
01 56 26 00-0139 EA 24' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months	1,271.91	
For Each LF Shade Cloth, Add	253.42	
01 56 26 00-0140 Temporary Chain Link Fence Panels (Portable) (01 56 26 00-0001)		
Note: Includes delivery, set-up and removal. Excludes sandbags.		
01 56 26 00-0141 Temporary Chain Link Fence Panels (Portable), Up To 6 Months (01 56 26 00-0140)		
01 56 26 00-0142 LF Temporary 4' High Chain Link Fence Panels (Portable), Up To 6 Months.....	6.95	
For >100 To 250, Deduct	-0.18	
For >250 To 500, Deduct	-0.36	
For >500, Deduct	-0.54	
For Each LF Shade Cloth, Add	1.60	
01 56 26 00-0143 LF Temporary 6' High Chain Link Fence Panels (Portable), Up To 6 Months.....	7.72	
For >100 To 250, Deduct	-0.20	
For >250 To 500, Deduct	-0.40	
For >500, Deduct	-0.60	
For Each LF Shade Cloth, Add	2.55	
01 56 26 00-0144 LF Temporary 8' High Chain Link Fence Panels (Portable), Up To 6 Months.....	10.52	
For >100 To 250, Deduct	-0.32	
For >250 To 500, Deduct	-0.65	
For >500, Deduct	-0.97	
For Each LF Shade Cloth, Add	3.60	
01 56 26 00-0145 Temporary Chain Link Fence Panels (Portable), >6 To 12 Months (01 56 26 00-0140)		
01 56 26 00-0146 LF Temporary 4' High Chain Link Fence Panels (Portable), >6 To 12 Months.....	7.26	
For >100 To 250, Deduct	-0.19	
For >250 To 500, Deduct	-0.39	
For >500, Deduct	-0.58	
For Each LF Shade Cloth, Add	1.60	
01 56 26 00-0147 LF Temporary 6' High Chain Link Fence Panels (Portable), >6 To 12 Months.....	8.06	
For >100 To 250, Deduct	-0.22	
For >250 To 500, Deduct	-0.44	
For >500, Deduct	-0.65	
For Each LF Shade Cloth, Add	2.55	
01 56 26 00-0148 LF Temporary 8' High Chain Link Fence Panels (Portable), >6 To 12 Months.....	11.08	
For >100 To 250, Deduct	-0.35	
For >250 To 500, Deduct	-0.70	
For >500, Deduct	-1.05	
For Each LF Shade Cloth, Add	3.60	
01 56 26 00-0149 Temporary Chain Link Fence Panels (Portable), >12 To 18 Months (01 56 26 00-0140)		
01 56 26 00-0150 LF Temporary 4' High Chain Link Fence Panels (Portable), >12 To 18 Months.....	7.56	
For >100 To 250, Deduct	-0.21	
For >250 To 500, Deduct	-0.42	
For >500, Deduct	-0.63	
For Each LF Shade Cloth, Add	1.60	

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



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 26 00-0151 LF Temporary 6' High Chain Link Fence Panels (Portable), >12 To 18 Months	8.44	
For >100 To 250, Deduct	-0.24	
For >250 To 500, Deduct	-0.47	
For >500, Deduct	-0.71	
For Each LF Shade Cloth, Add	2.55	
01 56 26 00-0152 LF Temporary 8' High Chain Link Fence Panels (Portable), >12 To 18 Months	11.72	
For >100 To 250, Deduct	-0.38	
For >250 To 500, Deduct	-0.77	
For >500, Deduct	-1.15	
For Each LF Shade Cloth, Add	3.60	
01 56 26 00-0153 Temporary Chain Link Fence Panels (Portable), >18 Months (01 56 26 00-0140)		
01 56 26 00-0154 LF Temporary 4' High Chain Link Fence Panels (Portable), >18 Months	7.95	
For >100 To 250, Deduct	-0.23	
For >250 To 500, Deduct	-0.46	
For >500, Deduct	-0.69	
For Each LF Shade Cloth, Add	1.60	
01 56 26 00-0155 LF Temporary 6' High Chain Link Fence Panels (Portable), >18 Months	8.82	
For >100 To 250, Deduct	-0.26	
For >250 To 500, Deduct	-0.51	
For >500, Deduct	-0.77	
For Each LF Shade Cloth, Add	2.55	
01 56 26 00-0156 LF Temporary 8' High Chain Link Fence Panels (Portable), >18 Months	12.38	
For >100 To 250, Deduct	-0.42	
For >250 To 500, Deduct	-0.83	
For >500, Deduct	-1.25	
For Each LF Shade Cloth, Add	3.60	
01 56 26 00-0157 Temporary Chain Link Fence Panels (Portable) Sandbags (01 56 26 00-0140)		
01 56 26 00-0158 BAG Temporary Chain Link Fence Panels (Portable) Sandbag	6.51	
Note: Includes placement and removal.		
01 56 26 00-0159 Relocate Chain Link Fence, Gates And Panels (01 56 26 00-0001)		
Note: Excludes auguring/drilling for posts.		
01 56 26 00-0160 Relocate Temporary Chain Link Fence On Site (01 56 26 00-0159)		
01 56 26 00-0161 LF Relocate Temporary 4' High Chain Link Fence And Posts	3.78	
01 56 26 00-0162 LF Relocate Temporary 6' High Chain Link Fence And Posts	5.67	
01 56 26 00-0163 LF Relocate Temporary 8' High Chain Link Fence And Posts	8.19	
01 56 26 00-0164 LF Relocate Temporary 10' High Chain Link Fence And Posts	10.08	
01 56 26 00-0165 Relocate Temporary Chain Link Fence Panels On Site (01 56 26 00-0159)		
01 56 26 00-0166 LF Relocate Temporary 4' High Chain Link Fence Panel, Self Standing	0.84	
01 56 26 00-0167 LF Relocate Temporary 6' High Chain Link Fence Panel, Self Standing	1.01	
01 56 26 00-0168 LF Relocate Temporary 8' High Chain Link Fence Panel, Self Standing	1.13	
01 56 26 00-0169 Relocate Temporary Chain Link Gates On Site (01 56 26 00-0159)		
01 56 26 00-0170 EA Relocate Temporary 4' High Chain Link Vehicle Gate And Posts	109.67	
01 56 26 00-0171 EA Relocate Temporary 6' High Chain Link Vehicle Gate And Posts	126.55	
01 56 26 00-0172 EA Relocate Temporary 8' High Chain Link Vehicle Gate And Posts	156.07	
01 56 26 00-0173 EA Relocate Temporary 10' High Chain Link Vehicle Gate And Posts	168.73	
01 56 26 00-0174 Temporary Safety Fence (01 56 26)		
Note: Includes removal after use.		
01 56 26 00-0175 LF 48" High With Posts At 8' On Center, Plastic Mesh Temporary Safety Fence	3.35	
01 56 29 Temporary Protective Walkways (01 56)		
01 56 29 00-0001 Temporary Sidewalk Bridge Protection (01 56 29)		
01 56 29 00-0002 Installation of Sidewalk Bridge (01 56 29 00-0001)		
01 56 29 00-0003 LF Installation of Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly	181.10	
Note: Includes spanning openings, planking and parapet, lighting, up to 8' wide, up to 8' high, 2 post system.		
For 3 Post System, Add	6.00	
For Each Additional Foot Over 8' Wide, Add	3.00	
For Each Additional Foot Over 8' High, Add	2.00	
01 56 29 00-0004 LF Installation of Netting for Sidewalk Bridge	4.61	
01 56 29 00-0005 Monthly Rental of Sidewalk Bridge (01 56 29 00-0001)		
01 56 29 00-0006 LF Monthly Rental Of Up To 8' Wide And 8' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly	14.94	
Note: Includes spanning openings, planking and parapet, lighting and maintenance.		
For 3 Post System, Add	2.24	



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

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 29 00-0007	LF	Monthly Rental Of Up To 8' Wide, 8' - 12' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly..... Note: Includes spanning openings, planking and parapet, lighting and maintenance. <i>For 3 Post System, Add</i>	16.82 2.52	
01 56 29 00-0008	LF	Monthly Rental Of Up To 8' Wide, Over 12' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly..... Note: Includes spanning openings, planking and parapet, lighting and maintenance. <i>For 3 Post System, Add</i>	18.69 2.80	
01 56 29 00-0009	LF	Monthly Rental Of 8' - 12' Wide And 8' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly..... Note: Includes spanning openings, planking and parapet, lighting and maintenance. <i>For 3 Post System, Add</i>	18.69 2.80	
01 56 29 00-0010	LF	Monthly Rental Of 8' - 12' Wide, 8' - 12' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly..... Note: Includes spanning openings, planking and parapet, lighting and maintenance. <i>For 3 Post System, Add</i>	20.54 3.08	
01 56 29 00-0011	LF	Monthly Rental Of 8' - 12' Wide, Over 12' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly..... Note: Includes spanning openings, planking and parapet, lighting and maintenance. <i>For 3 Post System, Add</i>	24.31 3.65	
01 56 29 00-0012	LF	Monthly Rental Of Over 12' Wide And 8' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly..... Note: Includes spanning openings, planking and parapet, lighting and maintenance. <i>For 3 Post System, Add</i>	22.44 3.37	
01 56 29 00-0013	LF	Monthly Rental Of Over 12' Wide, 8' - 12' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly..... Note: Includes spanning openings, planking and parapet, lighting and maintenance. <i>For 3 Post System, Add</i>	26.18 3.93	
01 56 29 00-0014	LF	Monthly Rental Of Over 12' Wide, Over 12' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly..... Note: Includes spanning openings, planking and parapet, lighting and maintenance. <i>For 3 Post System, Add</i>	28.00 4.20	
01 56 29 00-0015	LF	Monthly Rental of Netting for Sidewalk Bridge.....	2.80	
01 56 29 00-0016		Removal of Sidewalk Bridge <small>(01 56 29 00-0001)</small>		
01 56 29 00-0017	LF	Removal Of Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly..... Note: Includes spanning openings, planking and parapet, lighting, up to 8' wide, up to 8' high, 2 post system. <i>For 3 Post System, Add</i> <i>For Each Additional Foot Over 8' Wide, Add</i> <i>For Each Additional Foot Over 8' High, Add</i>	37.69 2.50 1.25 0.75	
01 56 29 00-0018	LF	Removal Of Netting For Sidewalk Bridge.....	2.31	
01 56 29 00-0019		Temporary Safety Nets <small>(01 56 29)</small>		
01 56 29 00-0020	SF	Small Mesh Debris Netting..... Note: Includes 3" molded plastic base plates, plastic cable ties, and 1/4", 7x9 aircraft cable tied off to structure, not including anchors.	2.17	
01 56 33		Temporary Security Barriers <small>(01 56)</small>		
01 56 33 00-0001		Board-up Opening With Plywood <small>(01 56 33)</small>		
		Note: For use where directed by owner for boarding up door and window openings.		
01 56 33 00-0002	OPNG	Removal Of Protective Barrier To Allow Work In Building, Reseal At End Of Day, Per Opening Per Day.....	12.66	
01 56 33 00-0003	SF	5/8" Thick Plywood, 2" x 4" Wood Stud Framing And Fasteners, For Board-Up Opening.....	8.28	
01 56 33 00-0004	SF	3/4" Thick Plywood, 2" x 4" Wood Stud Framing And Fasteners, For Board-Up Opening.....	9.56	
01 56 33 00-0005		Temporary Pedestrian Barricade <small>(01 56 33)</small>		
		Note: Portable, interlocking galvanized steel fence with pivoting legs.		
01 56 33 00-0006	DAY	3-1/2' x 7-1/2' Galvanized Steel Pedestrian Barricade, Rental.....	13.95	
01 56 33 00-0007	WK	3-1/2' x 7-1/2' Galvanized Steel Pedestrian Barricade, Rental.....	33.89	
01 56 33 00-0008	MO	3-1/2' x 7-1/2' Galvanized Steel Pedestrian Barricade, Rental.....	101.66	
01 56 39		Temporary Tree and Plant Protection <small>(01 56)</small>		
01 56 39 00-0001		Temporary Tree Guards <small>(01 56 39)</small>		
		Note: Includes digging holes and removal after use.		
01 56 39 00-0002	EA	Up To 4' x 4' Temporary Tree Guard, 2" x 4" Wood Stud Framing Construction, 4 Uprights Set In Earth 2' Deep, With Double Rail.....	189.30	
01 56 39 00-0003	EA	4' x 4' Temporary Tree Guard, 2" x 4" Wood Stud Framing Construction, 4 Uprights Set In Earth 2' Deep, With Double Rail.....	225.91	
01 56 39 00-0004	EA	6' x 6' Temporary Tree Guard, 2" x 4" Wood Stud Framing Construction, 4 Uprights Set In Earth 2' Deep, With Double Rail.....	245.84	
01 57		Temporary Controls <small>(01 50)</small>		
01 57 23		Temporary Storm Water Pollution Control <small>(01 57)</small>		
01 57 23 00-0001		Temporary Drain Guard <small>(01 57 23)</small> Note: Includes removal after use.		

01	General Requirements
01 50	Temporary Facilities and Controls
01 57	Temporary Controls



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 57 23 00-0002 EA 36" x 48" x 18" Non-Woven Polypropylene Trash and Debris Drain Guard (Ultra-Drain Guard® 9227).....	106.29	
01 57 23 00-0003 EA 36" x 48" x 18" Non-Woven Polypropylene Oil and Sediment Drain Guard (Ultra-Drain Guard® 9217).....	104.23	
Note: Up to 0.87 gallons oil, up to 40 lbs sediment.		
01 57 23 00-0004 EA 36" x 48" x 18" Non-Woven Polypropylene Oil and Sediment Drain Guard (Ultra-Drain Guard® 9219).....	133.12	
Note: Up to 1.38 gallons oil, up to 40 lbs sediment.		
01 57 23 00-0005 EA 60" x 60" x 18" Non-Woven Polypropylene Oil and Sediment Drain Guard (Ultra-Drain Guard® 9356).....	131.04	
Note: Up to 1.55 gallons oil, up to 40 lbs sediment.		
01 57 23 00-0006 EA 60" x 60" x 18" Non-Woven Polypropylene Oil and Sediment Drain Guard (Ultra-Drain Guard® 9358).....	162.00	
Note: Up to 2.06 gallons oil, up to 40 lbs sediment.		

01 58 Project Identification ^(01 50)

Note: Includes removal after use.

01 58 13 Temporary Project Signage ^(01 58)

01 58 13 00-0001	Project Sign ^(01 58 13)		
01 58 13 00-0002	MDO Plywood Signs ^(01 58 13 00-0001)		
Note: Excludes posts.			
01 58 13 00-0003	Reflectorized, MDO Plywood Signs ^(01 58 13 00-0002)		
01 58 13 00-0004	Engineer Grade, Reflectorized, MDO Plywood Signs ^(01 58 13 00-0003)		
01 58 13 00-0005	EA Up To 8 SF, One Or Two Color Design, Engineer Grade, Reflectorized, MDO Plywood Sign	169.95	23.21
	<i>For High-Intensity Grade, Add</i>	43.24	
	<i>For Diamond Grade, Add</i>	83.40	
01 58 13 00-0006	EA >8 To 16 SF, One Or Two Color Design, Engineer Grade, Reflectorized, MDO Plywood Sign.....	295.61	24.26
	<i>For High-Intensity Grade, Add</i>	86.49	
	<i>For Diamond Grade, Add</i>	166.79	
01 58 13 00-0007	EA >16 To 24 SF, One Or Two Color Design, Engineer Grade, Reflectorized, MDO Plywood Sign	421.27	25.31
	<i>For High-Intensity Grade, Add</i>	129.73	
	<i>For Diamond Grade, Add</i>	250.19	
01 58 13 00-0008	EA >24 To 32 SF, One Or Two Color Design, Engineer Grade, Reflectorized, MDO Plywood Sign	546.94	26.37
	<i>For High-Intensity Grade, Add</i>	172.97	
	<i>For Diamond Grade, Add</i>	333.59	
01 58 13 00-0009	SF >32 SF, One Or Two Color Design, Engineer Grade, Reflectorized, MDO Plywood Sign	17.13	0.84
	<i>For High-Intensity Grade, Add</i>	5.40	
	<i>For Diamond Grade, Add</i>	10.42	
01 58 13 00-0010	Non-Reflectorized, MDO Plywood Signs ^(01 58 13 00-0002)		
01 58 13 00-0011	One Or Two Color Design, Non-Reflectorized, MDO Plywood Signs ^(01 58 13 00-0010)		
01 58 13 00-0012	EA Up To 8 SF, One Or Two Color Design, Non-Reflectorized, MDO Plywood Sign	214.03	23.21
01 58 13 00-0013	EA >8 To 16 SF, One Or Two Color Design, Non-Reflectorized, MDO Plywood Sign	256.14	24.26
01 58 13 00-0014	EA >16 To 24 SF, One Or Two Color Design, Non-Reflectorized, MDO Plywood Sign	322.06	25.31
01 58 13 00-0015	EA >24 To 32 SF, One Or Two Color Design, Non-Reflectorized, MDO Plywood Sign	384.30	26.37
01 58 13 00-0016	SF >32 SF, One Or Two Color Design, Non-Reflectorized, MDO Plywood Sign	12.05	0.84
01 58 13 00-0017	Full Color Design, Non-Reflectorized, MDO Plywood Signs ^(01 58 13 00-0010)		
01 58 13 00-0018	EA Up To 8 SF, Full Color Design, Non-Reflectorized, MDO Plywood Sign.....	218.74	23.21
01 58 13 00-0019	EA >8 To 16 SF, Full Color Design, Non-Reflectorized, MDO Plywood Sign	281.59	24.26
01 58 13 00-0020	EA >16 To 24 SF, Full Color Design, Non-Reflectorized, MDO Plywood Sign	347.91	25.31
01 58 13 00-0021	EA >24 To 32 SF, Full Color Design, Non-Reflectorized, MDO Plywood Sign	406.46	26.37
01 58 13 00-0022	SF >32 SF, Full Color Design, Non-Reflectorized, MDO Plywood Sign	12.74	0.84
01 58 13 00-0023	Fabricate And Install New Posts ^(01 58 13 00-0001)		
Note: Includes excavation, backfill and compaction. Excludes core drilling.			
01 58 13 00-0024	LF Galvanized Metal Channel Sign Posts	18.59	
01 58 13 00-0025	LF 4" x 4" Pressure Treated Wood Sign Posts	13.98	
01 58 13 00-0026	LF 4" x 6" Pressure Treated Wood Sign Posts	16.87	
01 58 13 00-0027	Owner Supplied Signs ^(01 58 13 00-0001)		
01 58 13 00-0028	EA Installation And Removal Of Owner Supplied Project Sign	84.38	

01 60 Product Requirements ⁽⁰¹⁾

01 66 Product Storage and Handling Requirements ^(01 60)

01 66 19 Product Handling Requirements ^(01 66)

Note: Not for use in conjunction with other tasks when the distance is less than 2 stories or less than 125'.

01 66 19 00-0001	Transfer Delivered Materials Between Floors ^(01 66 19)		
Note: For moving delivered, owner supplied or existing materials in a building.			
01 66 19 00-0002	CY Transfer Delivered Material Between Floors Via Stairs, Per Floor	16.22	
Note: Quantity equals volume of materials multiplied by number of floors traveled.			



General Requirements	01	10
Product Requirements	01 60	
Product Storage and Handling Requirements	01 66	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 66 19 00-0003 CY Transfer Delivered Material Between Floors Via Elevator, Per Trip..... Note: Quantity is not multiplied by number of floors traveled. Includes transfer of materials between elevators, if more than one bank of elevators is required.	10.55	
01 66 19 00-0004 Transfer Delivered Materials Distances Greater Than 125' <small>(01 66 19)</small> Note: For moving delivered, owner supplied or existing materials in a building.		
01 66 19 00-0005 CY Transfer Delivered Materials Distances Greater Than 125', Per CY Of Material Per 125'	6.59	
01 66 19 00-0006 Transfer Demolition Debris Between Floors <small>(01 66 19)</small> Note: Only for use with demolition tasks.		
01 66 19 00-0007 CY Transfer Demolition Debris Between Floors Via Stairs, Per Floor	16.22	
Note: Quantity equals material volume times bulk factor times number of floors traveled.		
01 66 19 00-0008 CY Transfer Demolition Debris Between Floors Via Elevator, Per Trip	10.55	
Note: Quantity is not multiplied by number of floors traveled. Includes transfer of materials between elevators, if more than one bank of elevators is required.		
01 66 19 00-0009 Transfer Demolition Debris Distances Greater Than 125' <small>(01 66 19)</small> Note: Only for use with demolition tasks.		
01 66 19 00-0010 CY Transfer Demolition Debris Distances Greater Than 125', Per CY Of Material Per 125'	6.59	
01 66 19 00-0011 Moving Furniture And Furnishings <small>(01 66 19)</small> Note: To be used when contractor is required to move furniture and furnishings occupying 55% or more of the total floor space.		
01 66 19 00-0012 SF Removal, Transportation, Return And Reinstallation Of Office Furniture And Furnishings.....	1.05	
Note: Includes desks, tables, file cabinets, chairs, storage boxes, bookshelves, office equipment, computers, and other furniture and furnishings. Quantity equals total floor space.		

01 70 Execution and Closeout Requirements (01)

01 71 Examination and Preparation (01 70)

01 71 13 Mobilization (01 71)

01 71 13 00-0001 Equipment Delivery, Pickup, Mobilization And Demobilization (01 71 13)

Note: Excludes flagman for traffic control where necessary. Per each mobilization delivery.

01 71 13 00-0002 EA Equipment Delivery, Pickup, Mobilization And Demobilization Using A Rollback Flatbed Truck	482.62	
Note: Includes loading, tie-down of equipment, delivery of equipment, off loading on site, rigging, dismantling, loading for return and transporting away. For equipment such as trenchers, skid-steer loaders (bobcats), industrial warehouse forklifts, sweepers, scissor platform lifts, telescoping and articulating boom man lifts with up to 40' boom lengths, etc.		
01 71 13 00-0003 EA Equipment Delivery, Pickup, Mobilization And Demobilization Using A Tractor Trailer With Up To 53' Bed.....	1,552.93	
Note: Includes loading, tie-down of equipment, delivery of equipment, off loading on site, rigging, dismantling, loading for return and transporting away. For equipment such as bulldozers, motor scrapers, hydraulic excavators, gradalls, road graders, loader-backhoes, heavy duty construction loaders, tractors, pavers, rollers, bridge finishers, straight mast construction forklifts, telescoping boom rough terrain construction forklifts, telescoping and articulating boom man lifts with >40' boom lengths, etc.		

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

Note: Includes delivery of equipment, off loading on site and rigging. Pick-up (return) includes dismantling, loading and transporting away. Excludes flagman for traffic control where necessary.

01 71 13 00-0005 EA Up To 20 Ton Lift Move On/Off Cost, Hydraulic Crane	514.61	
Note: Includes delivery and pickup.		
<i>For >30 To 60 Miles Radius, Add</i>	128.65	
<i>For >60 To 100 Miles Radius, Add</i>	205.84	
01 71 13 00-0006 EA >20 To 40 Ton Lift Move On/Off Cost, Hydraulic Crane	836.26	
Note: Includes delivery and pickup.		
<i>For >30 To 60 Miles Radius, Add</i>	209.07	
<i>For >60 To 100 Miles Radius, Add</i>	334.50	
01 71 13 00-0007 EA >40 To 70 Ton Lift Move On/Off Cost, Hydraulic Crane	1,157.90	
Note: Includes delivery and pickup.		
<i>For >30 To 60 Miles Radius, Add</i>	289.48	
<i>For >60 To 100 Miles Radius, Add</i>	463.16	
01 71 13 00-0008 EA >70 To 110 Ton Lift Move On/Off Cost, Hydraulic Crane	1,865.49	
Note: Includes delivery and pickup.		
<i>For >30 To 60 Miles Radius, Add</i>	466.37	
<i>For >60 To 100 Miles Radius, Add</i>	746.20	
01 71 13 00-0009 EA >110 To 125 Ton Lift Move On/Off Cost, Hydraulic Crane	2,341.52	
Note: Includes delivery and pickup.		
<i>For >30 To 60 Miles Radius, Add</i>	585.38	
<i>For >60 To 100 Miles Radius, Add</i>	936.61	
01 71 13 00-0010 EA >125 To 150 Ton Lift Move On/Off Cost, Hydraulic Crane	2,914.03	
Note: Includes delivery and pickup.		
<i>For >30 To 60 Miles Radius, Add</i>	728.51	
<i>For >60 To 100 Miles Radius, Add</i>	1,165.61	
01 71 13 00-0011 EA >150 To 185 Ton Lift Move On/Off Cost, Hydraulic Crane	3,357.88	
Note: Includes delivery and pickup.		
<i>For >30 To 60 Miles Radius, Add</i>	839.47	
<i>For >60 To 100 Miles Radius, Add</i>	1,343.15	

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



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 71 13 00-0012	EA		>185 To 210 Ton Lift Move On/Off Cost, Hydraulic Crane Note: Includes delivery and pickup. <i>For >30 To 60 Miles Radius, Add</i> <i>For >60 To 100 Miles Radius, Add</i>	3,756.72 939.18 1,502.69	
01 71 13 00-0013	EA		75 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane Note: Includes delivery, rigging and pickup. <i>For >30 To 60 Miles Radius, Add</i> <i>For >60 To 100 Miles Radius, Add</i>	1,994.15 498.54 797.66	
01 71 13 00-0014	EA		100 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane Note: Includes delivery, rigging and pickup. <i>For >30 To 60 Miles Radius, Add</i> <i>For >60 To 100 Miles Radius, Add</i>	3,152.04 788.01 1,260.82	
01 71 13 00-0015	EA		125 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane Note: Includes delivery, rigging and pickup. <i>For >30 To 60 Miles Radius, Add</i> <i>For >60 To 100 Miles Radius, Add</i>	3,988.29 997.07 1,595.32	
01 71 13 00-0016	EA		150 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane Note: Includes delivery, rigging and pickup. <i>For >30 To 60 Miles Radius, Add</i> <i>For >60 To 100 Miles Radius, Add</i>	4,953.20 1,238.30 1,981.28	
01 71 13 00-0017	EA		200 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane Note: Includes delivery, rigging and pickup. <i>For >30 To 60 Miles Radius, Add</i> <i>For >60 To 100 Miles Radius, Add</i>	6,175.43 1,543.86 2,470.17	
01 71 13 00-0018	EA		250 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane Note: Includes delivery, rigging and pickup. <i>For >30 To 60 Miles Radius, Add</i> <i>For >60 To 100 Miles Radius, Add</i>	7,204.67 1,801.17 2,881.87	
01 71 13 00-0019	EA		300 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane Note: Includes delivery, rigging and pickup. <i>For >30 To 60 Miles Radius, Add</i> <i>For >60 To 100 Miles Radius, Add</i>	10,292.38 2,573.10 4,116.95	
01 71 13 00-0020	EA		500 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane Note: Includes delivery, rigging and pickup. <i>For >30 To 60 Miles Radius, Add</i> <i>For >60 To 100 Miles Radius, Add</i>	14,113.42 3,528.36 5,645.37	
01 71 23	Field Engineering <small>(01 71)</small>				
01 71 23 16	Construction Surveying <small>(01 71 23)</small>				
01 71 23 16-0001	Conventional Topographic Survey <small>(01 71 23 16)</small> Note: The professional services include AutoCAD drafting and certification. The survey includes location of structures, walks, drives, parking, significant vegetation, utilities, etc. The area within building footprint is not to be considered as part of the acreage.				
01 71 23 16-0002	ACR		Conventional Topographic Survey Of Clear Area With Few To No Obstacles.....	1,232.43	
01 71 23 16-0003	ACR		Conventional Topographic Survey Of Clear Area With Medium Height Vegetation, Few Trees (<5% Buildings).....	3,415.44	
01 71 23 16-0004	ACR		Conventional Topographic Survey Of Clear Area With Few Structures, And/or Wooded (5-25% Buildings).....	4,908.17	
01 71 23 16-0005	ACR		Conventional Topographic Survey Of Developed Areas With Several Structures (25-65% Buildings).....	7,353.37	
01 71 23 16-0006	ACR		Conventional Topographic Survey Of Highly Developed Areas, Sidewalks, Etcetera (>65% Buildings).....	9,195.93	
01 71 23 16-0007	Property Lines Survey <small>(01 71 23 16)</small> Note: Not to be added to tasks in the "Conventional Topographic Survey" section.				
01 71 23 16-0008	LF		Survey Property Lines On Cleared Land	2.69	
01 71 23 16-0009	LF		Survey Property Lines On Slightly Wooded Land	3.12	
01 71 23 16-0010	LF		Survey Property Lines On Wooded Land.....	3.65	
01 71 23 16-0011	Survey Monument <small>(01 71 23 16)</small>				
01 71 23 16-0012	EA		3' Precast Survey Monument..... <i>For Owner Furnished Monument, Deduct</i>	197.04 -76.01	
01 71 23 16-0013	EA		Precast Survey Monument Box With Cast Iron Frame And Cover.....	295.86	
01 71 23 16-0014	EA		Riser Ring For Survey Monument.....	153.31	
01 71 23 16-0015	EA		Adjust Survey Monument Cover To Grade.....	228.03	
01 71 23 16-0016	Facade Surveying <small>(01 71 23 16)</small>				
01 71 23 16-0017	LF		Facade Survey And Reports (LF Of Facade x Number Of Floors)	7.39	
01 71 23 16-0018	Utility Survey <small>(01 71 23 16)</small> Note: This survey is only for the location of underground utilities.				
01 71 23 16-0019	ACR		Survey Clear Area For Underground Utilities.....	6,241.91	
01 71 23 16-0020	GPR Bridge Deck And Pavement Inspection <small>(01 71 23 16)</small>				
01 71 23 16-0021	GPR Bridge Deck And Pavement Inspection Mobilization Fee <small>(01 71 23 16-0020)</small> Note: One mobilization per project.				
01 71 23 16-0022	EA		GPR Bridge Deck And Pavement Inspection Mobilization Fee.....	3,772.84	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
------------------------------	---------------------------	-------------------------

01 71 23 16-0023 Bridge Deck Delamination Survey, GPR Bridge Deck Inspection (01 71 23 16-0020)
 Note: Each project will use the Survey Fee task with a quantity of 1 and one other task for the area of the bridge deck surveyed.

01 71 23 16-0024	EA	Survey Fee, Bridge Deck Delamination Survey, GPR Bridge Deck Inspection	2,905.20
01 71 23 16-0025	SF	Up To 5,000 SF, Bridge Deck Delamination Survey, GPR Bridge Deck Inspection	1.22
01 71 23 16-0026	SF	>5,000 To 10,000 SF, Bridge Deck Delamination Survey, GPR Bridge Deck Inspection	0.97
01 71 23 16-0027	SF	>10,000 To 25,000 SF, Bridge Deck Delamination Survey, GPR Bridge Deck Inspection	0.77
01 71 23 16-0028	SF	>25,000 To 50,000 SF, Bridge Deck Delamination Survey, GPR Bridge Deck Inspection	0.58
01 71 23 16-0029	SF	>50,000 To 100,000 SF, Bridge Deck Delamination Survey, GPR Bridge Deck Inspection	0.46
01 71 23 16-0030	SF	>100,000 To 250,000 SF, Bridge Deck Delamination Survey, GPR Bridge Deck Inspection	0.37
01 71 23 16-0031	SF	>250,000 SF, Bridge Deck Delamination Survey, GPR Bridge Deck Inspection	0.27

01 71 23 16-0032 Depth Of Reinforcement/Overlay Thickness Survey, GPR Bridge Deck Inspection (01 71 23 16-0020)
 Note: Each project will use the Survey Fee task with a quantity of 1 and one other task for the area of the bridge deck surveyed.

01 71 23 16-0033	EA	Survey Fee, Depth Of Reinforcement/Overlay Thickness Survey, GPR Bridge Deck Inspection	968.40
01 71 23 16-0034	SF	Depth Of Reinforcement/Overlay Thickness Survey, GPR Bridge Deck Inspection	0.06

01 71 23 16-0035 Freeze-Thaw Damage/Debonded Overlay Survey, GPR Bridge Deck Inspection (01 71 23 16-0020)
 Note: Each project will use the Survey Fee task with a quantity of 1 and one other task for the area of the bridge deck surveyed.

01 71 23 16-0036	EA	Survey Fee, Freeze-Thaw Damage/Debonded Overlay Survey, GPR Bridge Deck Inspection	968.40
01 71 23 16-0037	SF	Up To 5,000 SF, Freeze-Thaw Damage/Debonded Overlay Survey, GPR Bridge Deck Inspection	0.45
01 71 23 16-0038	SF	>5,000 To 10,000 SF, Freeze-Thaw Damage/Debonded Overlay Survey, GPR Bridge Deck Inspection	0.35
01 71 23 16-0039	SF	>10,000 To 25,000 SF, Freeze-Thaw Damage/Debonded Overlay Survey, GPR Bridge Deck Inspection	0.27
01 71 23 16-0040	SF	>25,000 To 50,000 SF, Freeze-Thaw Damage/Debonded Overlay Survey, GPR Bridge Deck Inspection	0.21
01 71 23 16-0041	SF	>50,000 To 100,000 SF, Freeze-Thaw Damage/Debonded Overlay Survey, GPR Bridge Deck Inspection	0.17
01 71 23 16-0042	SF	>100,000 To 250,000 SF, Freeze-Thaw Damage/Debonded Overlay Survey, GPR Bridge Deck Inspection	0.14
01 71 23 16-0043	SF	>250,000 SF, Freeze-Thaw Damage/Debonded Overlay Survey, GPR Bridge Deck Inspection	0.10

01 71 23 16-0044 Pavement Structure And Thickness Measurement, GPR Pavement Inspection (01 71 23 16-0020)
 Note: Each project will use one task for the length of the pavement surveyed.

01 71 23 16-0045	LM	Up To 4 Lane Miles (LM), Pavement Structure And Thickness Measurement, GPR Pavement Inspection	7,201.02
01 71 23 16-0046	LM	>4 To 9 Lane Miles (LM), Pavement Structure And Thickness Measurement, GPR Pavement Inspection	3,139.55
01 71 23 16-0047	LM	>9 To 49 Lane Miles (LM), Pavement Structure And Thickness Measurement, GPR Pavement Inspection	2,337.72
01 71 23 16-0048	LM	>49 To 99 Lane Miles (LM), Pavement Structure And Thickness Measurement, GPR Pavement Inspection	1,276.35
01 71 23 16-0049	LM	>99 Lane Miles (LM), Pavement Structure And Thickness Measurement, GPR Pavement Inspection	1,003.26

01 71 23 16-0050 Pavement Thickness Contour (Mapping), GPR Pavement Inspection (01 71 23 16-0020)
 Note: Each project will use one task for the length of the pavement surveyed.

01 71 23 16-0051	LM	Up To 4 Lane Miles (LM), Pavement Thickness Contour (Mapping), GPR Pavement Inspection	9,163.00
01 71 23 16-0052	LM	>4 To 9 Lane Miles (LM), Pavement Thickness Contour (Mapping), GPR Pavement Inspection	4,309.38
01 71 23 16-0053	LM	>9 To 49 Lane Miles (LM), Pavement Thickness Contour (Mapping), GPR Pavement Inspection	3,273.19
01 71 23 16-0054	LM	>49 To 99 Lane Miles (LM), Pavement Thickness Contour (Mapping), GPR Pavement Inspection	1,834.15
01 71 23 16-0055	LM	>99 Lane Miles (LM), Pavement Thickness Contour (Mapping), GPR Pavement Inspection	1,450.66

01 71 23 16-0056 Pavement Void Detection (Mapping), GPR Pavement Inspection (01 71 23 16-0020)
 Note: Each project will use one task for the length of the pavement surveyed.

01 71 23 16-0057	LM	Up To 4 Lane Miles (LM), Pavement Void Detection (Mapping), GPR Pavement Inspection	10,880.94
01 71 23 16-0058	LM	>4 To 9 Lane Miles (LM), Pavement Void Detection (Mapping), GPR Pavement Inspection	5,332.01
01 71 23 16-0059	LM	>9 To 49 Lane Miles (LM), Pavement Void Detection (Mapping), GPR Pavement Inspection	4,090.52
01 71 23 16-0060	LM	>49 To 99 Lane Miles (LM), Pavement Void Detection (Mapping), GPR Pavement Inspection	2,322.22
01 71 23 16-0061	LM	>99 Lane Miles (LM), Pavement Void Detection (Mapping), GPR Pavement Inspection	1,839.96

01 71 23 16-0062 Drone Survey (Extreme Aerial Productions) (01 71 23 16)
 Note: Thermographic services to electrical line grid inspections.

01 71 23 16-0063 Mobilization For Drone Surveying (01 71 23 16-0062)

01 71 23 16-0064	EA	Mobilization For Up To 1000 Acres, Drone Survey/Topography 1/10 Or Better, Post Process Kinematic (PPK) Fixed Wing	260.36
01 71 23 16-0065	EA	Mobilization For > 1000 Acres Drone Survey/Topography 1/10 Or Better, Post Process Kinematic (PPK) Fixed Wing	650.89
01 71 23 16-0066	EA	Mobilization For Up To 400 Acres, Drone Survey/Topography 1/10 Or Better, Post Process Kinematic (PPK) Hexacopter	173.57
01 71 23 16-0067	EA	Mobilization For Drone Road Survey For Topography/Progression/Inspection	347.14
01 71 23 16-0068	EA	Mobilization For Drone Survey Stockpile	173.57
01 71 23 16-0069	EA	Mobilization For Drone Inspection	173.57
01 71 23 16-0070	EA	Mobilization For Qualitative Drone Thermal Inspection	347.14
01 71 23 16-0071	EA	Mobilization For Quantitative Drone Thermal Inspection	433.92
01 71 23 16-0072	EA	Mobilization For Drone Agricultural Multispectral Survey	694.28
01 71 23 16-0073	EA	Mobilization For Drone Building Inspection/Scan/Thermal	520.71

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



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 71 23 16-0074 EA Mobilization For Drone 3D Modelling	433.92	
01 71 23 16-0075 EA Mobilization For Drone Spraying Crops Or Sanitation	781.06	
01 71 23 16-0076 EA Mobilization For Drone Video Progression/Marketing	173.57	
01 71 23 16-0077 EA Mobilization For Drone Pictures Progression/Marketing	173.57	
01 71 23 16-0078 EA Mobilization For Drone Training, Flying, Test Prep, Equipment Checks	173.57	
01 71 23 16-0079 EA Mobilization For Drone Accident Reconstruction	173.57	
01 71 23 16-0080 EA Mobilization For Drone Landfill Survey	260.36	
01 71 23 16-0081 EA Mobilization For Drone Event Security Using Tethered Drones	347.14	
01 71 23 16-0082 EA Mobilization For Drone Emergency Response	867.85	
01 71 23 16-0083 EA Mobilization For Drone Cell Tower Inspection	260.36	
01 71 23 16-0084 Drone Surveying <small>(01 71 23 16-0062)</small>		
01 71 23 16-0085 HR Up To 1000 Acres, Drone Survey/Topography 1/10 Or Better, Post Process Kinematic (PPK) Fixed Wing	633.53	
Note: 3 hour minimum		
For Visual Observation, Add	173.57	
For Additional Manpower, Add	173.57	
01 71 23 16-0086 HR > 1000 Acres, Drone Survey/Topography 1/10 Or Better, Post Process Kinematic (PPK) Fixed Wing	807.10	
For Visual Observation, Add	260.36	
For Additional Manpower, Add	208.28	
01 71 23 16-0087 HR Up To 400 Acres, Drone Survey/Topography 1/10 Or Better, Post Process Kinematic (PPK) Hexacopter	520.71	
Note: 3 hour minimum		
For Visual Observation, Add	173.57	
For Additional Manpower, Add	173.57	
01 71 23 16-0088 HR Drone Road Survey For Topography/Progression/Inspection	607.50	
Note: 3 hour minimum		
For Visual Observation, Add	260.36	
For Additional Manpower, Add	173.57	
01 71 23 16-0089 HR Drone Survey Stockpile	433.92	
Note: 3 hour minimum		
For Visual Observation, Add	173.57	
For Additional Manpower, Add	173.57	
01 71 23 16-0090 HR Drone Inspection	607.50	
Note: 3 hour minimum		
For Visual Observation, Add	173.57	
For Additional Manpower, Add	173.57	
01 71 23 16-0091 HR Qualitative Drone Thermal Inspection	694.28	
Note: 5 hour minimum		
For Visual Observation, Add	260.36	
For Additional Manpower, Add	173.57	
01 71 23 16-0092 HR Quantitative Drone Thermal Inspection	1,041.42	
Note: 5 hour minimum		
For Visual Observation, Add	260.36	
For Additional Manpower, Add	173.57	
01 71 23 16-0093 HR Drone Agricultural Multispectral Survey	781.06	
Note: 6 hour minimum		
For Visual Observation, Add	173.57	
For Additional Manpower, Add	173.57	
01 71 23 16-0094 HR Drone Building Inspection/Scan/Thermal	694.28	
Note: 3 hour minimum		
For Visual Observation, Add	260.36	
For Additional Manpower, Add	173.57	
01 71 23 16-0095 HR Drone 3D Modelling	520.71	
Note: 3 hour minimum		
For Visual Observation, Add	260.36	
For Additional Manpower, Add	173.57	
01 71 23 16-0096 HR Drone Spraying Crops Or Sanitation	694.28	
Note: 3 hour minimum		
For Visual Observation, Add	216.96	
For Additional Manpower, Add	173.57	
01 71 23 16-0097 HR Drone Video Progression/Marketing	347.14	
Note: 2 hour minimum		
For Visual Observation, Add	173.57	
For Additional Manpower, Add	173.57	
01 71 23 16-0098 HR Drone Pictures Progression/Marketing	260.36	
Note: 2 hour minimum		
For Visual Observation, Add	173.57	
For Additional Manpower, Add	173.57	
01 71 23 16-0099 HR Drone Training, Flying, Test Prep, Equipment Checks	520.71	
Note: 3 hour minimum		
01 71 23 16-0100 HR Drone Accident Reconstruction	781.06	
Note: 2 hour minimum		
For Visual Observation, Add	173.57	
For Additional Manpower, Add	173.57	
01 71 23 16-0101 HR Drone Landfill Survey	633.53	
Note: 3 hour minimum		
For Visual Observation, Add	173.57	
For Additional Manpower, Add	173.57	
01 71 23 16-0102 HR Drone Event Security Using Tethered Drones	433.92	
Note: 3 hour minimum		
For Visual Observation, Add	173.57	
For Additional Manpower, Add	173.57	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 71 23 16-0103 HR Drone Emergency Response.....	433.92	
Note: 3 hour minimum		
For Visual Observation, Add	260.36	
For Additional Manpower, Add	173.57	
01 71 23 16-0104 HR Drone Cell Tower Inspection	433.92	
Note: 3 hour minimum		
For Visual Observation, Add	216.96	
For Additional Manpower, Add	173.57	
01 71 23 16-0105 Utilization And Deliverables For Drone Surveying (01 71 23 16-0062)		
01 71 23 16-0106 Day Utilization Of GPS Ground Control For Drone Surveying	433.92	
01 71 23 16-0107 Day Utilization Of GPS Base Station Per Day For Drone Surveying.....	433.92	
01 71 23 16-0108 HR Processing And Data Deliverables And Reporting For Drone Surveying.....	173.57	
Note: 2 hour minimum		
01 71 23 16-0109 HR Processing And Data Deliverables And Reporting Of Thermal For Drone Surveying.....	347.14	
Note: 3 hour minimum		
01 71 23 16-0110 Travel, Waivers, And Editing For Drone Surveying (01 71 23 16-0062)		
01 71 23 16-0111 MI Travel Over 100 Miles For Drone Surveying.....	1.00	
Note: For additional miles over 100		
01 71 23 16-0112 EA Overnight Stay Per Person For Drone Surveying	216.96	
01 71 23 16-0113 EA Waiver Utilization B, C, D, And E For Drone Surveying.....	86.78	
Note: Restricted airspace		
01 71 23 16-0114 EA Night Waiver For Drone Surveying	112.82	
01 71 23 16-0115 EA Flying Over People Waiver For Drone Surveying	173.57	
01 71 23 16-0116 EA Beyond Visual Line Of Sight (BVLOS) Waiver For Drone Surveying.....	867.85	
01 71 23 16-0117 HR Editing Video For Drone Surveying.....	173.57	
Note: 2 hour minimum		
01 71 23 16-0118 HR Editing Pictures For Drone Surveying	86.78	
Note: 2 hour minimum		
01 71 23 16-0119 HR Custom Post Processing For Drone Surveying	260.36	
Note: 3 hour minimum		
01 71 36 Non-Destructive Concrete Examination (01 71)		
01 71 36 00-0001 Electromagnetic Survey (01 71 36)		
Note: To locate voids, prior to moving heavy machinery to an area of concern, to locate reinforcing bars, conduits, pipes, etc., prior to core drilling or cutting existing concrete, masonry or asphalt, to locate underground utilities, underground storage tanks, etc. Electromagnetic survey includes Subsurface Interface Radar (SIR) and/or Ground Penetrating Radar (GPR).		
01 71 36 00-0002 Electromagnetic (SIR/GPR) Survey (01 71 36 00-0001)		
01 71 36 00-0003 EA Up To 1 Hour On Site, Electromagnetic (SIR/GPR) Survey, Earth, Concrete, Masonry Or Asphalt.....	1,120.20	
01 71 36 00-0004 EA >1 To 4 Hours On Site, Electromagnetic (SIR/GPR) Survey, Earth, Concrete, Masonry Or Asphalt.....	1,680.30	
01 71 36 00-0005 EA >4 To 8 Hours On Site, Electromagnetic (SIR/GPR) Survey, Earth, Concrete, Masonry Or Asphalt.....	3,360.60	
01 71 36 00-0006 Reports And Mapping For Electromagnetic (SIR/GPR) Surveys (01 71 36 00-0001)		
01 71 36 00-0007 EA Standard Report For Electromagnetic (SIR/GPR) Survey, Earth, Concrete, Masonry Or Asphalt.....	373.40	
Note: Includes a detailed description of the scope of work, inspection methods, and equipment used. Also includes visuals such as site locations, images of data, and site photos.		
01 71 36 00-0008 EA GPS Mapping Of Located Utilities/Items For Electromagnetic (SIR/GPR) Survey, Earth, Concrete, Masonry Or Asphalt	746.80	
Note: Includes GPS coordinates of located items and reference items.		
01 71 36 00-0009 EA CAD Mapping Of Located Utilities/Items For Electromagnetic (SIR/GPR) Survey, Earth, Concrete, Masonry Or Asphalt	1,680.30	
Note: Includes additions to the owner provided CAD drawing.		
01 74 Cleaning and Waste Management (01 70)		
01 74 13 Progress Cleaning (01 74)		
Note: For use on existing areas other than where actual work is to be performed where ordered by the owner. Daily cleanup and final cleanup is included in the contractor's adjustment factor.		
01 74 13 00-0001 General (01 74 13)		
01 74 13 00-0002 CSF Clean Miscellaneous Surfaces, Wipe Down With Mild Detergent.....	21.12	
01 74 13 00-0003 CY Collect Existing Debris And Load Into Truck Or Dumpster	24.73	
Note: Per CY of debris removed.		
01 74 16 Site Maintenance (01 74)		
01 74 16 00-0001 Parking Lot, Roads And Pathway Maintenance (01 74 16)		
Note: These tasks shall be used for maintenance of existing roads and walks only as requested by the owner. Tasks not to be used in conjunction with related installation/demolition tasks in the Construction Task Catalog®.		
01 74 16 00-0002 Parking Lot, Road, And Street Sweeping (01 74 16 00-0001)		
01 74 16 00-0003 MSF Sweep Parking Lot, With Street Sweeper.....	22.34	
01 74 16 00-0004 MSF Sweeper/Vacuum/Sprayer For Parking Lots, Streets And Roads.....	26.82	

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



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 74 16 00-0005 Runway Sweeping (01 74 16 00-0001)		
01 74 16 00-0006 MSF Sweep Runway, With Street Sweep	33.53	
01 74 19 Construction Waste Management and Disposal (01 74)		
Note: Tasks in this section shall be used as directed by owner.		
01 74 19 00-0001 Debris Chutes (01 74 19)		
Note: Includes hopper sections and entry sections. Used as required for buildings of all heights.		
01 74 19 00-0002 Steel Temporary Debris Chutes (01 74 19 00-0001)		
01 74 19 00-0003 LF 18" Diameter, Steel Temporary Debris Chute	42.05	
01 74 19 00-0004 LF 30" Diameter, Steel Temporary Debris Chute	63.77	
01 74 19 00-0005 Plastic Temporary Debris Chutes (01 74 19 00-0001)		
01 74 19 00-0006 LF 24" Diameter, Plastic Temporary Debris Chute	16.65	
For Steel Liner, Add	3.27	
01 74 19 00-0007 LF 30" Diameter, Plastic Temporary Debris Chute	19.08	
For Steel Liner, Add	3.75	
01 74 19 00-0008 LF 36" Diameter, Plastic Temporary Debris Chute	21.51	
For Steel Liner, Add	4.23	
01 74 19 00-0009 Wood Temporary Debris Chutes (01 74 19 00-0001)		
01 74 19 00-0010 LF 4' x 4', Wood Temporary Debris Chute	32.86	
Note: Includes fabrication and installation.		
01 74 19 00-0011 Construction Dumpsters Rental (01 74 19)		
Note: Includes service to delivery and pick-up of dumpster, hauling of debris, rental of dumpster and all applicable non-hazardous disposal fees. Cost of "each" is based on each pick-up. Use modifier for excess tons up to legal state limit. Unacceptable materials include: aerosol cans, all liquids, animals, antifreeze, appliances, asbestos, barrels, batteries, chemical products, computers, contaminated oils (mixed with solvents, gasoline, etc.), dirt, fluorescent tubes, hazardous waste, herbicides and pesticides, industrial waste, lubricating/hydraulic oil, mattresses, medical waste, microwaves, monitors, motor oil, oil filters, other flammable liquids, paint (except completely dried latex paint cans, no liquids), petroleum-contaminated soil/lead paint chips, propane tanks, radioactive material, railroad ties, solvents, televisions, tires, and transmission oil.		
01 74 19 00-0012 EA 10 CY Dumpster (1.5 Ton) "Construction Debris"	587.50	
Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Non-hazardous material.		
For Each Ton Over Indicated Amount, Add	95.00	
01 74 19 00-0013 EA 15 CY Dumpster (2 Ton) "Construction Debris"	634.98	
Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Non-hazardous material.		
For Each Ton Over Indicated Amount, Add	95.00	
01 74 19 00-0014 EA 20 CY Dumpster (3 Ton) "Construction Debris"	685.00	
Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Non-hazardous material.		
For Each Ton Over Indicated Amount, Add	95.00	
01 74 19 00-0015 EA 30 CY Dumpster (4 Ton) "Construction Debris"	734.96	
Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Non-hazardous material.		
For Each Ton Over Indicated Amount, Add	95.00	
01 74 19 00-0016 EA 40 CY Dumpster (6 Ton) "Construction Debris"	814.98	
Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Non-hazardous material.		
For Each Ton Over Indicated Amount, Add	95.00	
01 74 19 00-0017 EA 10 CY Low-Boy Dumpster "Concrete Or Asphalt Only"	714.85	
Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Concrete or asphalt only.		
01 74 19 00-0018 EA 15 CY Low-Boy Dumpster Clean Recyclable	780.05	
Note: For clean dirt, rock, concrete brick or asphalt with no trash or organics. Includes service to deliver and pick-up dumpster, hauling, rental and disposal fee.		
01 74 19 00-0019 EA 15 CY Low-Boy Dumpster Mixed Recyclable	838.26	
Note: For mixed dirt, rock, concrete brick or asphalt with no trash or organics. Includes service to deliver and pick-up dumpster, hauling, rental and disposal fee.		
01 74 19 00-0020 Concrete Washout Service (01 74 19)		
01 74 19 00-0021 MO Rampless Concrete Washout Bin	589.50	
Note: Includes delivery.		
01 74 19 00-0022 MO Ramped Concrete Washout Bin	707.40	
Note: Includes delivery.		
01 74 19 00-0023 EA Interim Vacuum Service, Concrete Washout Bin	617.19	
Note: Includes vacuum and recycle excess clear liquid from the unfilled bin to allow additional space for washout material.		
01 74 19 00-0024 EA Vacuum, Pickup, Swap And Dump, Concrete Washout Bin	1,337.24	
Note: Includes vacuum the liquid from the full bin and pick up the bin, and recycle all material. An empty bin will be left at the site if the project is not completed.		
01 74 19 00-0025 Debris Processing Fee (01 74 19)		
01 74 19 00-0026 Material Recycling Fees (01 74 19 00-0025)		
Note: Not to be used with Dumpster Tasks which includes the Landfill Dump Fee. Excludes hauling.		
01 74 19 00-0027 CY Drop-Off Asphalt At Recycling Center	46.33	
01 74 19 00-0028 CY Drop-Off Non-Reinforced Concrete At Recycling Center	62.07	



General Requirements	01	10
Execution and Closeout Requirements	01 70	
Cleaning and Waste Management	01 74	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 74 19 00-0029 CY Drop-Off Reinforced Concrete At Recycling Center.....	93.10	
01 74 19 00-0030 CY Drop-Off Brick Or Block At Recycling Center.....	80.69	
01 74 19 00-0031 CY Drop-Off Dirt At Recycling Center.....	90.00	
01 74 19 00-0032 CY Drop-Off Dimensional Lumber At Recycling Center.....	86.90	
01 74 19 00-0033 Landfill Dump Fees <small>(01 74 19 00-0025)</small>		
<small>Note: Does not apply when material is transferred to owner's site or facility, or with use of dumpsters. Excludes hauling. See CSI section 01 74 19 00-0039 for hauling.</small>		
01 74 19 00-0034 CY Traditional Building Construction Materials Landfill Dump Fee.....	41.30	
01 74 19 00-0035 TON Traditional Building Construction Materials, Landfill Dump Fee.....	180.00	
01 74 19 00-0036 CY Trees, Stumps And Brush, Landfill Dump Fee.....	49.72	
01 74 19 00-0037 CY Hazardous Materials And Rubbish Landfill Dump Fee	118.56	
<small>Note: Includes regulated waste such as paint cans, refrigerators/freezers, air conditioners, smoke detectors, batteries, etc.</small>		
01 74 19 00-0038 CY Asphalt, Concrete, Gravel And Subgrade Material, Landfill Dump Fee	84.24	
01 74 19 00-0039 Hauling <small>(01 74 19)</small>		
<small>Note: Includes driver and equipment, ten (10) to fifteen (15) minutes load time, time for travel, dump time and return (roundtrip). The task quantity is the number of miles to the disposal site/transfer station (one way mileage) times the number of cubic yards being transported. For example, to haul 8 CY to a site 14 miles away, the quantity is calculated as follows: 14 miles x 8 CY = 112 CYM. Use both hauling tasks for distances greater than 15 miles. To haul 28 CY to a site 32 miles away, the quantity for the task to haul the first 15 miles is calculated: 15 miles x 28 CY = 420 CYM. The quantity for the additional hauling task over the first 15 miles is calculated: 32 total miles less 15 initial miles equals 17 miles x 28 CY = 476 CYM.</small>		
01 74 19 00-0040 CYM Hauling On Paved Roads, First 15 Miles	1.00	
01 74 19 00-0041 CYM Hauling On Paved Roads, Miles Over Initial 15 Miles.....	0.67	
01 74 19 00-0042 CYM Hauling On Unimproved Roads, First 15 Miles.....	1.53	
01 74 19 00-0043 CYM Hauling On Unimproved Roads, Miles Over Initial 15 Miles	1.20	
01 74 23 Final Cleaning <small>(01 74)</small>		
01 74 23 00-0001 Cleaning Of Glass <small>(01 74 23)</small>		
01 74 23 00-0002 CSF Cleaning Of Existing Glass Surfaces.....	29.03	

END OF SECTION 01

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



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
------------------------------	---------------------------	-------------------------

THIS PAGE INTENTIONALLY LEFT BLANK



Existing Conditions	02	02
Assessment	02 20	
Existing Material Assessment	02 25	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
------------------------------	---------------------------	-------------------------

02 Existing Conditions

02 20 Assessment ⁽⁰²⁾

02 25 Existing Material Assessment ^(02 20)

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

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

02 25 16 13 Concrete Assessment Drilling ^(02 25 16)

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

02 30 Subsurface Investigation ⁽⁰²⁾

02 32 Geotechnical Investigations ^(02 30)

02 32 13 Subsurface Drilling and Sampling ^(02 32)

See CSI section 01 45 23 00-0000 for testing and lab reports.

02 32 13 00-0001 Mobilization Of Drilling Crew ^(02 32 13)

02 32 13 00-0002 EA Mobilization Of Drilling Crew 1,187.09

02 32 13 00-0003 Auger Borings ^(02 32 13)

02 32 13 00-0004 LF Standard Auger Hole With Split Spoon Sample At 5' Intervals 35.75

02 32 13 00-0005 Cased Borings In Earth, With Samples ^(02 32 13)

Note: All types of soils.

02 32 13 00-0006 LF 2-1/2" Diameter Cased Borings In Earth, With Samples 93.25

02 32 13 00-0007 LF 4" Diameter Cased Borings In Earth, With Samples 159.48

02 32 13 00-0008 Drilling In Rock, BW Core (2.125") ^(02 32 13)

02 32 13 00-0009 LF Drill In Rock, BW Core, With Casing 98.42

Note: Includes sampling.

02 32 13 00-0010 EA Drill In Rock, With BW Core Boxes 9.37

02 32 13 00-0011 Drilling In Rock, NW Core (2.98") ^(02 32 13)

02 32 13 00-0012 LF Drill In Rock, NW Core, With Casing 127.32

Note: Includes sampling.

02 32 13 00-0013 EA Drill In Rock, With NW Core Boxes 10.78

02 32 13 00-0014 Test Pits For Boring Activities ^(02 32 13)

Note: Excludes backfill.

02 32 13 00-0015 Backhoe Dug Test Pits ^(02 32 13 00-0014)

02 32 13 00-0016 CY Excavation For Test Pit, Light Material, Backhoe Excavation 67.61

02 32 13 00-0017 CY Excavation For Test Pits, Medium Material, Backhoe Excavation 78.88

02 32 13 00-0018 CY Excavation For Test Pit, Heavy Material, Backhoe Excavation 105.17

02 32 13 00-0019 Hand-Dug Test Pits ^(02 32 13 00-0014)

02 32 13 00-0020 CY Excavation For Test Pit, Light Soil, Hand Excavation 187.47

02 32 13 00-0021 CY Excavation For Test Pit, Heavy Soil, Hand Excavation 337.44

02 32 13 00-0022 Shelby Tube Sampling ^(02 32 13)

02 32 13 00-0023 EA Shelby Tube Sampling 53.94

02 32 13 00-0024 EA Penetration Test 43.95

02 32 13 00-0025 Grouting ^(02 32 13)

02 32 13 00-0026 VLF Boreholes 10.23

02 32 19 Exploratory Excavations ^(02 32)

02 32 19 00-0001 Hydro Excavation ^(02 32 19)

Note: Assumes on-site disposal.

02 32 19 00-0002 EA Hydro Excavation, Mobilization/Demobilization 167.57

02 32 19 00-0003 EA Hydro Excavation, Minimum Charge 670.27

Note: For projects where the total charge is less than the "Hydro Excavation Minimum" cost, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.

02 32 19 00-0004 CY Hydro Excavation, Normal Soil Conditions (Hydro-Vac Truck) 37.23

Note: Normal soil conditions consist of silt, sand and gravel.

02	02 Existing Conditions
	02 30 Subsurface Investigation
	02 32 Geotechnical Investigations



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
------------------------------	---------------------------	-------------------------

02 32 19 00-0005 CY Hydro Excavation, Adverse Soil Conditions (Hydro-Vac Truck).....59.58
 Note: Adverse soil conditions consist of clay, glacial till and rocks.

02 40 Demolition and Structure Moving (02)

02 41 Demolition (02 40)

02 41 13 Selective Site Demolition (02 41)

02 41 13 13 Paving Removal (02 41 13)

02 41 13 13-0001 By Machine, Break-up And Leave In Place Bituminous And Concrete Paving (02 41 13 13)

Note: Includes slabs, pavements, sidewalks and base courses. Includes work around obstacles. These tasks are not to be used in conjunction with any other loading activities or other break-up tasks. Excludes saw cutting (where required) and disposal. See CSI section 02 41 13 13-0018 for breaking-up, removal and loading as a combined operation, 02 41 19 13-0001 for saw cutting.

02 41 13 13-0002	SY	Up To 3" By Machine, Break-up And Leave In Place Bituminous Paving	7.24
		<i>For >500 To 1,000, Deduct</i>	-0.72
		<i>For >1,000 To 2,500, Deduct</i>	-1.30
		<i>For >2,500 To 5,000, Deduct</i>	-1.88
		<i>For >5,000 To 10,000, Deduct</i>	-2.46
		<i>For >10,000, Deduct</i>	-3.04
02 41 13 13-0003	SY	>3" To 6" By Machine, Break-up And Leave In Place Bituminous Paving	10.85
		<i>For >500 To 1,000, Deduct</i>	-1.09
		<i>For >1,000 To 2,500, Deduct</i>	-1.95
		<i>For >2,500 To 5,000, Deduct</i>	-2.82
		<i>For >5,000 To 10,000, Deduct</i>	-3.69
		<i>For >10,000, Deduct</i>	-4.56
02 41 13 13-0004	SY	>6" To 9" By Machine, Break-up And Leave In Place Bituminous Paving	14.47
		<i>For >500 To 1,000, Deduct</i>	-1.45
		<i>For >1,000 To 2,500, Deduct</i>	-2.60
		<i>For >2,500 To 5,000, Deduct</i>	-3.76
		<i>For >5,000 To 10,000, Deduct</i>	-4.92
		<i>For >10,000, Deduct</i>	-6.08
02 41 13 13-0005	SY	Up To 3" By Machine, Break-up And Leave In Place Concrete Paving	14.05
		<i>For >500 To 1,000, Deduct</i>	-1.41
		<i>For >1,000 To 2,500, Deduct</i>	-2.53
		<i>For >2,500 To 5,000, Deduct</i>	-3.65
		<i>For >5,000 To 10,000, Deduct</i>	-4.78
		<i>For >10,000, Deduct</i>	-5.90
02 41 13 13-0006	SY	>3" To 6" By Machine, Break-up And Leave In Place Concrete Paving	19.85
		<i>For >500 To 1,000, Deduct</i>	-1.99
		<i>For >1,000 To 2,500, Deduct</i>	-3.57
		<i>For >2,500 To 5,000, Deduct</i>	-5.16
		<i>For >5,000 To 10,000, Deduct</i>	-6.75
		<i>For >10,000, Deduct</i>	-8.34
02 41 13 13-0007	SY	>6" To 9" By Machine, Break-up And Leave In Place Concrete Paving	28.11
		<i>For >500 To 1,000, Deduct</i>	-2.81
		<i>For >1,000 To 2,500, Deduct</i>	-5.06
		<i>For >2,500 To 5,000, Deduct</i>	-7.31
		<i>For >5,000 To 10,000, Deduct</i>	-9.56
		<i>For >10,000, Deduct</i>	-11.81
02 41 13 13-0008	SY	>9" To 14" By Machine, Break-up And Leave In Place Concrete Paving	39.68
		<i>For >500 To 1,000, Deduct</i>	-3.97
		<i>For >1,000 To 2,500, Deduct</i>	-7.14
		<i>For >2,500 To 5,000, Deduct</i>	-10.32
		<i>For >5,000 To 10,000, Deduct</i>	-13.49
		<i>For >10,000, Deduct</i>	-16.67
02 41 13 13-0009	SY	>14" To 19" By Machine, Break-up And Leave In Place Concrete Paving	51.89
		<i>For >500 To 1,000, Deduct</i>	-5.19
		<i>For >1,000 To 2,500, Deduct</i>	-9.34
		<i>For >2,500 To 5,000, Deduct</i>	-13.49
		<i>For >5,000 To 10,000, Deduct</i>	-17.64
		<i>For >10,000, Deduct</i>	-21.79
02 41 13 13-0010	SY	>19" To 24" By Machine, Break-up And Leave In Place Concrete Paving	67.46
		<i>For >500 To 1,000, Deduct</i>	-6.75
		<i>For >1,000 To 2,500, Deduct</i>	-12.14
		<i>For >2,500 To 5,000, Deduct</i>	-17.54
		<i>For >5,000 To 10,000, Deduct</i>	-22.94
		<i>For >10,000, Deduct</i>	-28.33

02 41 13 13-0011 By Hand, Break-up And Leave In Place Bituminous And Concrete Paving (02 41 13 13)

Note: Includes slabs, pavements, sidewalks and base courses. Includes work around obstacles with jackhammer and hand tools. For individual work areas where conventional equipment access is limited or prohibited. Task is only to be used when requested by owner. These tasks are not to be used in conjunction with any other loading activities or other break-up tasks. Excludes saw cutting (where required) and disposal. See CSI section 02 41 13 13-0018 for breaking-up, removal and loading as a combined operation, 02 41 19 13-0001 for saw cutting.

02 41 13 13-0012	SF	Up To 3" By Hand, Break-up And Leave In Place Bituminous Paving	1.74
02 41 13 13-0013	SF	>3" To 6" By Hand, Break-up And Leave In Place Bituminous Paving	2.21
02 41 13 13-0014	SF	>6" To 9" By Hand, Break-up And Leave In Place Bituminous Paving	2.92
02 41 13 13-0015	SF	Up To 3" By Hand, Break-up And Leave In Place Concrete Paving	2.18



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 13 13-0016	SF		>3" To 6" By Hand, Break-up And Leave In Place Concrete Paving	2.77	
02 41 13 13-0017	SF		>6" To 9" By Hand, Break-up And Leave In Place Concrete Paving	3.65	
02 41 13 13-0018			By Machine, Break-up And Remove Bituminous And Concrete Paving (02 41 13		
			¹³⁾ Note: Includes slabs, pavements, sidewalks and base courses. Includes work around obstacles, breaking into manageable sizes by machine and loading into truck, dumpster or moving material to stockpile. Excludes saw cutting (where required) and disposal. See CSI section 02 41 19 13-0001 for saw cutting.		
02 41 13 13-0019	SY		Up To 3" By Machine, Break-up And Remove Bituminous Paving	15.68	
			For Additional Cost Of Hand Held Equipment Usage (Around Existing Structures And Obstructions), Add	4.70	
			Note: (Around Existing Structures And Obstructions), Add		
			For Elevated Slab, Add	7.84	
			For >500 To 1,000, Deduct	-1.57	
			For >1,000 To 2,500, Deduct	-2.82	
			For >2,500 To 5,000, Deduct	-4.08	
			For >5,000 To 10,000, Deduct	-5.33	
			For >10,000, Deduct	-6.59	
02 41 13 13-0020	SY		>3" To 6" By Machine, Break-up And Remove Bituminous Paving	21.41	
			For Additional Cost Of Hand Held Equipment Usage (Around Existing Structures And Obstructions), Add	6.42	
			Note: (Around Existing Structures And Obstructions), Add		
			For Elevated Slab, Add	10.71	
			For >500 To 1,000, Deduct	-2.14	
			For >1,000 To 2,500, Deduct	-3.85	
			For >2,500 To 5,000, Deduct	-5.57	
			For >5,000 To 10,000, Deduct	-7.28	
			For >10,000, Deduct	-8.99	
02 41 13 13-0021	SY		>6" To 9" By Machine, Break-up And Remove Bituminous Paving	29.71	
			For Elevated Slab, Add	14.86	
			For >500 To 1,000, Deduct	-2.97	
			For >1,000 To 2,500, Deduct	-5.35	
			For >2,500 To 5,000, Deduct	-7.72	
			For >5,000 To 10,000, Deduct	-10.10	
			For >10,000, Deduct	-12.48	
02 41 13 13-0022	SY		>9" To 12" By Machine, Break-up And Remove Bituminous Paving	38.77	
			For Elevated Slab, Add	19.39	
			For >500 To 1,000, Deduct	-3.88	
			For >1,000 To 2,500, Deduct	-6.98	
			For >2,500 To 5,000, Deduct	-10.08	
			For >5,000 To 10,000, Deduct	-13.18	
			For >10,000, Deduct	-16.28	
02 41 13 13-0023	SY		>12" To 15" By Machine, Break-up And Remove Bituminous Paving	53.97	
			For Elevated Slab, Add	26.99	
			For >500 To 1,000, Deduct	-5.40	
			For >1,000 To 2,500, Deduct	-9.71	
			For >2,500 To 5,000, Deduct	-14.03	
			For >5,000 To 10,000, Deduct	-18.35	
			For >10,000, Deduct	-22.67	
02 41 13 13-0024	SY		Up To 3" By Machine, Break-up And Remove Non-Reinforced Concrete Paving	18.04	
			For Additional Cost Of Hand Held Equipment Usage (Around Existing Structures And Obstructions), Add	5.41	
			Note: (Around Existing Structures And Obstructions), Add		
			For Elevated Slab, Add	9.02	
			For >500 To 1,000, Deduct	-1.80	
			For >1,000 To 2,500, Deduct	-3.25	
			For >2,500 To 5,000, Deduct	-4.69	
			For >5,000 To 10,000, Deduct	-6.13	
			For >10,000, Deduct	-7.58	
02 41 13 13-0025	SY		>3" To 6" By Machine, Break-up And Remove Non-Reinforced Concrete Paving	23.61	
			For Additional Cost Of Hand Held Equipment Usage (Around Existing Structures And Obstructions), Add	7.08	
			Note: (Around Existing Structures And Obstructions), Add		
			For Elevated Slab, Add	11.81	
			For >500 To 1,000, Deduct	-2.36	
			For >1,000 To 2,500, Deduct	-4.25	
			For >2,500 To 5,000, Deduct	-6.14	
			For >5,000 To 10,000, Deduct	-8.03	
			For >10,000, Deduct	-9.92	
02 41 13 13-0026	SY		>6" To 9" By Machine, Break-up And Remove Non-Reinforced Concrete Paving	42.16	
			For Elevated Slab, Add	21.08	
			For >500 To 1,000, Deduct	-4.22	
			For >1,000 To 2,500, Deduct	-7.59	
			For >2,500 To 5,000, Deduct	-10.96	
			For >5,000 To 10,000, Deduct	-14.33	
			For >10,000, Deduct	-17.71	
02 41 13 13-0027	SY		>9" To 14" By Machine, Break-up And Remove Non-Reinforced Concrete Paving	55.08	
			For Elevated Slab, Add	27.54	
			For >500 To 1,000, Deduct	-5.51	
			For >1,000 To 2,500, Deduct	-9.91	
			For >2,500 To 5,000, Deduct	-14.32	
			For >5,000 To 10,000, Deduct	-18.73	
			For >10,000, Deduct	-23.13	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 13 13-0028 SY Up To 3" By Machine, Break-up And Remove Welded Wire Reinforced Concrete Paving.....	23.95	
For Additional Cost Of Hand Held Equipment Usage (Around Existing Structures And Obstructions), Add	7.19	
Note: (Around Existing Structures And Obstructions), Add		
For Elevated Slab, Add	11.98	
For >500 To 1,000, Deduct	-2.40	
For >1,000 To 2,500, Deduct	-4.31	
For >2,500 To 5,000, Deduct	-6.23	
For >5,000 To 10,000, Deduct	-8.14	
For >10,000, Deduct	-10.06	
02 41 13 13-0029 SY >3" To 6" By Machine, Break-up And Remove Welded Wire Reinforced Concrete Paving.....	31.03	
For Additional Cost Of Hand Held Equipment Usage (Around Existing Structures And Obstructions), Add	9.31	
Note: (Around Existing Structures And Obstructions), Add		
For Elevated Slab, Add	15.52	
For >500 To 1,000, Deduct	-3.10	
For >1,000 To 2,500, Deduct	-5.59	
For >2,500 To 5,000, Deduct	-8.07	
For >5,000 To 10,000, Deduct	-10.55	
For >10,000, Deduct	-13.03	
02 41 13 13-0030 SY >6" To 9" By Machine, Break-up And Remove Welded Wire Reinforced Concrete Paving.....	51.44	
For Additional Cost Of Hand Held Equipment Usage (Around Existing Structures And Obstructions), Add	15.43	
Note: (Around Existing Structures And Obstructions), Add		
For Elevated Slab, Add	25.72	
For >500 To 1,000, Deduct	-5.14	
For >1,000 To 2,500, Deduct	-9.26	
For >2,500 To 5,000, Deduct	-13.37	
For >5,000 To 10,000, Deduct	-17.49	
For >10,000, Deduct	-21.60	
02 41 13 13-0031 SY Up To 3" By Machine, Break-up And Remove Rod Reinforced Concrete Paving.....	25.97	
For Elevated Slab, Add	12.99	
For >500 To 1,000, Deduct	-2.60	
For >1,000 To 2,500, Deduct	-4.67	
For >2,500 To 5,000, Deduct	-6.75	
For >5,000 To 10,000, Deduct	-8.83	
For >10,000, Deduct	-10.91	
02 41 13 13-0032 SY >3" To 6" By Machine, Break-up And Remove Rod Reinforced Concrete Paving.....	33.39	
For Elevated Slab, Add	16.70	
For >500 To 1,000, Deduct	-3.34	
For >1,000 To 2,500, Deduct	-6.01	
For >2,500 To 5,000, Deduct	-8.68	
For >5,000 To 10,000, Deduct	-11.35	
For >10,000, Deduct	-14.02	
02 41 13 13-0033 SY >6" To 9" By Machine, Break-up And Remove Rod Reinforced Concrete Paving.....	59.70	
For Elevated Slab, Add	29.85	
For >500 To 1,000, Deduct	-5.97	
For >1,000 To 2,500, Deduct	-10.75	
For >2,500 To 5,000, Deduct	-15.52	
For >5,000 To 10,000, Deduct	-20.30	
For >10,000, Deduct	-25.07	
02 41 13 13-0034 SY >9" To 14" By Machine, Break-up And Remove Rod Reinforced Concrete Paving.....	77.91	
For Elevated Slab, Add	38.96	
For >500 To 1,000, Deduct	-7.79	
For >1,000 To 2,500, Deduct	-14.02	
For >2,500 To 5,000, Deduct	-20.26	
For >5,000 To 10,000, Deduct	-26.49	
For >10,000, Deduct	-32.72	
02 41 13 13-0035 SY >14" To 19" By Machine, Break-up And Remove Rod Reinforced Concrete Paving.....	101.86	
For Elevated Slab, Add	50.93	
For >500 To 1,000, Deduct	-10.19	
For >1,000 To 2,500, Deduct	-18.33	
For >2,500 To 5,000, Deduct	-26.48	
For >5,000 To 10,000, Deduct	-34.63	
For >10,000, Deduct	-42.78	
02 41 13 13-0036 SY >19" To 24" By Machine, Break-up And Remove Rod Reinforced Concrete Paving.....	123.62	
For Elevated Slab, Add	61.81	
For >500 To 1,000, Deduct	-12.36	
For >1,000 To 2,500, Deduct	-22.25	
For >2,500 To 5,000, Deduct	-32.14	
For >5,000 To 10,000, Deduct	-42.03	
For >10,000, Deduct	-51.92	

02 41 13 13-0037 By Hand, Break-up And Remove Bituminous And Concrete Paving (02 41 13 13)

Note: Includes slabs, pavements, sidewalks and base courses. Includes work around obstacles. Work includes breaking into manageable size with jackhammer and hand tools, removal and loading onto a truck or dumpster. For individual work areas where conventional equipment access is limited or prohibited. Task is only to be used when requested by owner. Excludes saw cutting (where required) and disposal. See CSI section 02 41 19 13-0001 for saw cutting.

02 41 13 13-0038 SF Up To 3" By Hand, Break-up And Remove Bituminous Paving.....	3.88	
02 41 13 13-0039 SF >3" To 6" By Hand, Break-up And Remove Bituminous Paving.....	5.11	
02 41 13 13-0040 SF >6" To 9" By Hand, Break-up And Remove Bituminous Paving.....	6.65	
02 41 13 13-0041 SF Up To 3" By Hand, Break-up And Remove Concrete Paving.....	4.86	
02 41 13 13-0042 SF >3" To 6" By Hand, Break-up And Remove Concrete Paving.....	6.71	
02 41 13 13-0043 SF >6" To 9" By Hand, Break-up And Remove Concrete Paving.....	8.59	
02 41 13 13-0044 SF Up To 3" By Hand, Break-up And Remove Welded Wire Reinforced Concrete Paving.....	6.80	
02 41 13 13-0045 SF >3" To 6" By Hand, Break-up And Remove Welded Wire Reinforced Concrete Paving.....	9.38	
02 41 13 13-0046 SF >6" To 9" By Hand, Break-up And Remove Welded Wire Reinforced Concrete Paving.....	12.02	



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

02

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 13 13-0047 Grind Concrete <small>(02 41 13 13)</small>		
02 41 13 13-0048 EA Grind Existing Sidewalks, Up To 1/2" Depth, To Remove Ridges (Tripping Hazard).....	249.70	
Note: For each location up to 5' wide, feather up to 12" each direction.		
For >1/2" To 1" Depth Of Grinding, Add	37.46	
For >1" To 1-1/2" Depth Of Grinding, Add	62.43	
For Up To 5, Add	49.94	
For >5 To 10, Add	24.97	
For >25 To 50, Deduct	-24.97	
For >50 To 250, Deduct	-37.46	
For >250, Deduct	-49.94	
For Sidewalks >5', Add	24.97	
For Up To 12" Additional Feathering Per Side, Add	24.97	
02 41 13 15 Hydro Demolition <small>(02 41 13)</small>		
02 41 13 15-0001 Hydro Demolition Of Concrete Pavement <small>(02 41 13 15)</small>		
Note: Includes removal but excludes disposal of concrete.		
02 41 13 15-0002 SF Up To 2" Depth, Hydro Demolition, Using 40,000 PSI Water Jet.....	7.54	
02 41 13 15-0003 SF >2" To 4" Depth, Hydro Demolition, Using 40,000 PSI Water Jet.....	9.43	
02 41 13 15-0004 SF >4" To 6" Depth, Hydro Demolition, Using 40,000 PSI Water Jet.....	12.61	
02 41 13 15-0005 SF >6" To 8" Depth, Hydro Demolition, Using 40,000 PSI Water Jet.....	25.11	
02 41 16 Structure Demolition <small>(02 41)</small>		
02 41 16 13 Building Demolition <small>(02 41 16)</small>		
02 41 16 13-0001 Building Interior Demolition <small>(02 41 16 13)</small>		
Note: Guttled and placed in truck or dumpsters. Based on overall floor area square foot or Gross Square Foot (GSF) including flooring under interior demolished walls. Includes all soft stripping of materials (doors and frames, non-load bearing walls, carpet, moldings, drywall, tile, ceiling, ductwork, piping, light fixtures, etc.), accessible mechanical, electrical, plumbing, overhead sprinkler, fire protection and similar systems. Excludes lead, asbestos or other contaminates or load bearing walls, mechanical, plumbing or electrical equipment such as furnaces, water heaters, plumbing fixtures, sump pumps, switchgear or panel boards. Excludes hauling, dump fees, recycling charges, and/or salvage value.		
02 41 16 13-0002 GSF Residential Building Interior Demolition, Gutting And Placing Into Dumpster Or Truck	7.90	
02 41 16 13-0003 GSF Up To 2,000 SF Commercial Building Interior Demolition, Gutting And Placing Into Dumpster Or Truck.....	11.94	
02 41 16 13-0004 GSF >2,000 To 10,000 SF Commercial Building Interior Demolition, Gutting And Placing Into Dumpster Or Truck	9.77	
02 41 16 13-0005 GSF >10,000 SF Commercial Building Interior Demolition, Gutting And Placing Into Dumpster Or Truck	8.68	
02 41 16 13-0006 Commercial And Residential Structures Demolition <small>(02 41 16 13)</small>		
Note: Complete demolition of structures. Includes site and building safety preparation, signage, dust control, scattered debris and other site clean-up, demolition equipment, and repair of any damaged adjacent property. Excludes (if required) utility disconnects and capping, underground or above ground storage tank removal, adjacent property protection, adjacent property cleanup, adjacent property work, site paving (asphalt or concrete), recycling fees, gutting/soft stripping (selective removal of materials for reuse) of building, site security, hazardous material abatement (including lead, asbestos, and PCBs), surveys, clearing and grubbing of site, cranes, traffic control, elevator removal, major mechanical equipment such as boilers, chillers, cooling towers, Etc., excavation or backfill, foundations, basement floor, slab-on grade, temporary fencing (installation and removal), hauling, disposal and dump fees for all debris (site and building), earthwork and erosion control. Pricing is by Hundred Cubic Foot (CCF) of complete building volume being demolished. For computing building volume, height is computed at actual floor-to-floor dimensions with attic and basement each computed at half-height, width and length are actual dimensions. Excludes salvage value.		
02 41 16 13-0007 Steel Framed Building Demolition <small>(02 41 16 13-0006)</small>		
Note: Includes masonry partitions and concrete decks.		
02 41 16 13-0008 CCF By Pneumatic Tools/Hand, Steel Framed Building Demolition	74.04	
For Floor-To-Floor (Or Floor-To-Structure) Heights >12' To 15'; Deduct	-5.55	
For Floor-To-Floor (Or Floor-To-Structure) Heights >15' To 18'; Deduct	-11.11	
For Floor-To-Floor (Or Floor-To-Structure) Heights >18' To 21'; Deduct	-16.66	
For Up To 500, Add	22.21	
For >500 To 1,000, Add	14.81	
For >1,000 To 2,000, Add	7.40	
For Volume Of Area Within 15' To An Adjacent Building, Add	24.43	
For No Interior Partitions, Deduct	-18.51	
02 41 16 13-0009 CCF By Machine, Steel Framed Building Demolition.....	46.58	
For Floor-To-Floor (Or Floor-To-Structure) Heights >12' To 15'; Deduct	-3.49	
For Floor-To-Floor (Or Floor-To-Structure) Heights >15' To 18'; Deduct	-6.99	
For Floor-To-Floor (Or Floor-To-Structure) Heights >18' To 21'; Deduct	-10.48	
For Up To 500, Add	13.97	
For >500 To 1,000, Add	9.32	
For >1,000 To 2,000, Add	4.66	
For Work >3 Stories To 6 Stories (Exclude Volume Below), Add	6.99	
For Work >6 Stories To 10 Stories (Exclude Volume Below), Add	11.65	
For Work >10 Stories To 15 Stories (Exclude Volume Below), Add	16.30	
For Volume Of Area Within 15' To An Adjacent Building, Add	15.37	
For No Interior Partitions, Deduct	-11.65	
02 41 16 13-0010 Reinforced Concrete Building Demolition <small>(02 41 16 13-0006)</small>		

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 16 13-0011 CCF By Pneumatic Tools/Hand, Reinforced Concrete Building Demolition	92.90	
For Floor-To-Floor (Or Floor-To-Structure) Heights >12' To 15', Deduct	-6.97	
For Floor-To-Floor (Or Floor-To-Structure) Heights >15' To 18', Deduct	-13.94	
For Floor-To-Floor (Or Floor-To-Structure) Heights >18' To 21', Deduct	-20.90	
For Up To 500, Add	27.87	
For >500 To 1,000, Add	18.58	
For >1,000 To 2,000, Add	9.29	
For Volume Of Area Within 15' To An Adjacent Building, Add	30.66	
For No Interior Partitions, Deduct	-23.23	
02 41 16 13-0012 CCF By Machine, Reinforced Concrete Building Demolition.....	61.50	
For Floor-To-Floor (Or Floor-To-Structure) Heights >12' To 15', Deduct	-4.61	
For Floor-To-Floor (Or Floor-To-Structure) Heights >15' To 18', Deduct	-9.23	
For Floor-To-Floor (Or Floor-To-Structure) Heights >18' To 21', Deduct	-13.84	
For Up To 500, Add	18.45	
For >500 To 1,000, Add	12.30	
For >1,000 To 2,000, Add	6.15	
For Work >3 Stories To 6 Stories (Exclude Volume Below), Add	9.23	
For Work >6 Stories To 10 Stories (Exclude Volume Below), Add	15.38	
For Work >10 Stories To 15 Stories (Exclude Volume Below), Add	21.53	
For Volume Of Area Within 15' To An Adjacent Building, Add	20.30	
For No Interior Partitions, Deduct	-15.38	
02 41 16 13-0013 Masonry Construction Building Demolition (02 41 16 13-0006)		
02 41 16 13-0014 CCF By Pneumatic Tools/Hand, Masonry Construction Building Demolition	65.28	
For Floor-To-Floor (Or Floor-To-Structure) Heights >12' To 15', Deduct	-4.90	
For Floor-To-Floor (Or Floor-To-Structure) Heights >15' To 18', Deduct	-9.79	
For Floor-To-Floor (Or Floor-To-Structure) Heights >18' To 21', Deduct	-14.69	
For Up To 500, Add	19.58	
For >500 To 1,000, Add	13.06	
For >1,000 To 2,000, Add	6.53	
For Volume Of Area Within 15' To An Adjacent Building, Add	21.54	
For No Interior Partitions, Deduct	-16.32	
02 41 16 13-0015 CCF By Machine, Masonry Construction Building Demolition.....	41.80	
For Floor-To-Floor (Or Floor-To-Structure) Heights >12' To 15', Deduct	-3.14	
For Floor-To-Floor (Or Floor-To-Structure) Heights >15' To 18', Deduct	-6.27	
For Floor-To-Floor (Or Floor-To-Structure) Heights >18' To 21', Deduct	-9.41	
For Up To 500, Add	12.54	
For >500 To 1,000, Add	8.36	
For >1,000 To 2,000, Add	4.18	
For Work >3 Stories To 6 Stories (Exclude Volume Below), Add	6.27	
For Work >6 Stories To 10 Stories (Exclude Volume Below), Add	10.45	
For Work >10 Stories To 15 Stories (Exclude Volume Below), Add	14.63	
For Volume Of Area Within 15' To An Adjacent Building, Add	13.79	
For No Interior Partitions, Deduct	-10.45	
02 41 16 13-0016 Wood Frame Construction Building Demolition (02 41 16 13-0006)		
02 41 16 13-0017 CCF By Pneumatic Tools/Hand, Wood Frame Construction Building Demolition	56.74	
For Floor-To-Floor (Or Floor-To-Structure) Heights >12' To 15', Deduct	-4.26	
For Floor-To-Floor (Or Floor-To-Structure) Heights >15' To 18', Deduct	-8.51	
For Floor-To-Floor (Or Floor-To-Structure) Heights >18' To 21', Deduct	-12.77	
For Up To 500, Add	17.02	
For >500 To 1,000, Add	11.35	
For >1,000 To 2,000, Add	5.67	
For Volume Of Area Within 15' To An Adjacent Building, Add	18.72	
For No Interior Partitions, Deduct	-14.19	
02 41 16 13-0018 CCF By Machine, Wood Frame Construction Building Demolition	35.77	
For Floor-To-Floor (Or Floor-To-Structure) Heights >12' To 15', Deduct	-2.68	
For Floor-To-Floor (Or Floor-To-Structure) Heights >15' To 18', Deduct	-5.37	
For Floor-To-Floor (Or Floor-To-Structure) Heights >18' To 21', Deduct	-8.05	
For Up To 500, Add	10.73	
For >500 To 1,000, Add	7.15	
For >1,000 To 2,000, Add	3.58	
For Work >3 Stories To 6 Stories (Exclude Volume Below), Add	5.37	
For Volume Of Area Within 15' To An Adjacent Building, Add	11.80	
For No Interior Partitions, Deduct	-8.94	
02 41 16 13-0019 Sorting Of Material Debris For Recycling Prior To Hauling Off (02 41 16 13-0006)		
Note: Per building volume.		
02 41 16 13-0020 CCF Sorting Of Material Debris For Recycling Prior To Hauling Off	9.27	
For Up To 500, Add	2.78	
For >500 To 1,000, Add	1.85	
For >1,000 To 2,000, Add	0.93	
02 41 16 13-0021 Foundation Demolition (02 41 16 13)		
Note: Excludes earthwork.		
02 41 16 13-0022 Concrete Foundation Demolition (02 41 16 13-0021)		
02 41 16 13-0023 CF Non-Reinforced Concrete Foundation Demolition	14.61	
For >135 To 405, Deduct	-1.28	
For >405 To 810, Deduct	-2.56	
For >810 To 2025, Deduct	-3.65	
For >2025, Deduct	-5.84	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 16 13-0024 CF Reinforced Concrete Foundation Demolition	17.53	
<i>For >135 To 405, Deduct</i>	-1.53	
<i>For >405 To 810, Deduct</i>	-3.07	
<i>For >810 To 2025, Deduct</i>	-4.38	
<i>For >2025, Deduct</i>	-7.01	
02 41 16 13-0025 Concrete Foundation Wall Demolition (02 41 16 13-0021)		
02 41 16 13-0026 SF 4" Thick Non-Reinforced Concrete Foundation Wall Demolition.....	6.26	
<i>For >500 To 2,000, Deduct</i>	-0.47	
<i>For >2,000 To 6,000, Deduct</i>	-1.25	
<i>For >6,000 To 8,000, Deduct</i>	-2.19	
<i>For >8,000, Deduct</i>	-3.44	
02 41 16 13-0027 SF 6" Thick Non-Reinforced Concrete Foundation Wall Demolition.....	8.35	
<i>For >500 To 2,000, Deduct</i>	-0.63	
<i>For >2,000 To 6,000, Deduct</i>	-1.67	
<i>For >6,000 To 8,000, Deduct</i>	-2.92	
<i>For >8,000, Deduct</i>	-4.59	
02 41 16 13-0028 SF 8" Thick Non-Reinforced Concrete Foundation Wall Demolition.....	10.43	
<i>For >500 To 2,000, Deduct</i>	-0.78	
<i>For >2,000 To 6,000, Deduct</i>	-2.09	
<i>For >6,000 To 8,000, Deduct</i>	-3.65	
<i>For >8,000, Deduct</i>	-5.74	
02 41 16 13-0029 SF 10" Thick Non-Reinforced Concrete Foundation Wall Demolition.....	12.52	
<i>For >500 To 2,000, Deduct</i>	-0.94	
<i>For >2,000 To 6,000, Deduct</i>	-2.50	
<i>For >6,000 To 8,000, Deduct</i>	-4.38	
<i>For >8,000, Deduct</i>	-6.89	
02 41 16 13-0030 SF 12" Thick Non-Reinforced Concrete Foundation Wall Demolition.....	14.61	
<i>For >500 To 2,000, Deduct</i>	-1.10	
<i>For >2,000 To 6,000, Deduct</i>	-2.92	
<i>For >6,000 To 8,000, Deduct</i>	-5.11	
<i>For >8,000, Deduct</i>	-8.04	
02 41 16 13-0031 SF 16" Thick Non-Reinforced Concrete Foundation Wall Demolition.....	16.70	
<i>For >500 To 2,000, Deduct</i>	-1.25	
<i>For >2,000 To 6,000, Deduct</i>	-3.34	
<i>For >6,000 To 8,000, Deduct</i>	-5.85	
<i>For >8,000, Deduct</i>	-9.19	
02 41 16 13-0032 SF 4" Thick Reinforced Concrete Foundation Wall Demolition	7.51	
<i>For >500 To 2,000, Deduct</i>	-0.56	
<i>For >2,000 To 6,000, Deduct</i>	-1.50	
<i>For >6,000 To 8,000, Deduct</i>	-2.63	
<i>For >8,000, Deduct</i>	-4.13	
02 41 16 13-0033 SF 6" Thick Reinforced Concrete Foundation Wall Demolition	10.01	
<i>For >500 To 2,000, Deduct</i>	-0.75	
<i>For >2,000 To 6,000, Deduct</i>	-2.00	
<i>For >6,000 To 8,000, Deduct</i>	-3.50	
<i>For >8,000, Deduct</i>	-5.51	
02 41 16 13-0034 SF 8" Thick Reinforced Concrete Foundation Wall Demolition	12.52	
<i>For >500 To 2,000, Deduct</i>	-0.94	
<i>For >2,000 To 6,000, Deduct</i>	-2.50	
<i>For >6,000 To 8,000, Deduct</i>	-4.38	
<i>For >8,000, Deduct</i>	-6.89	
02 41 16 13-0035 SF 10" Thick Reinforced Concrete Foundation Wall Demolition	14.81	
<i>For >500 To 2,000, Deduct</i>	-1.11	
<i>For >2,000 To 6,000, Deduct</i>	-2.96	
<i>For >6,000 To 8,000, Deduct</i>	-5.18	
<i>For >8,000, Deduct</i>	-8.15	
02 41 16 13-0036 SF 12" Thick Reinforced Concrete Foundation Wall Demolition	17.53	
<i>For >500 To 2,000, Deduct</i>	-1.31	
<i>For >2,000 To 6,000, Deduct</i>	-3.51	
<i>For >6,000 To 8,000, Deduct</i>	-6.14	
<i>For >8,000, Deduct</i>	-9.64	
02 41 16 13-0037 SF 16" Thick Reinforced Concrete Foundation Wall Demolition	20.03	
<i>For >500 To 2,000, Deduct</i>	-1.50	
<i>For >2,000 To 6,000, Deduct</i>	-4.01	
<i>For >6,000 To 8,000, Deduct</i>	-7.01	
<i>For >8,000, Deduct</i>	-11.02	
02 41 16 13-0038 Concrete Block Foundation Wall Demolition (02 41 16 13-0021)		
02 41 16 13-0039 SF 4" Thick Non-Reinforced Concrete Block Foundation Wall Demolition.....	4.60	
<i>For >500 To 2,000, Deduct</i>	-0.35	
<i>For >2,000 To 6,000, Deduct</i>	-0.92	
<i>For >6,000 To 8,000, Deduct</i>	-1.61	
<i>For >8,000, Deduct</i>	-2.53	
02 41 16 13-0040 SF 6" Thick Non-Reinforced Concrete Block Foundation Wall Demolition.....	4.90	
<i>For >500 To 2,000, Deduct</i>	-0.37	
<i>For >2,000 To 6,000, Deduct</i>	-0.98	
<i>For >6,000 To 8,000, Deduct</i>	-1.72	
<i>For >8,000, Deduct</i>	-2.70	
02 41 16 13-0041 SF 8" Thick Non-Reinforced Concrete Block Foundation Wall Demolition.....	5.53	
<i>For >500 To 2,000, Deduct</i>	-0.41	
<i>For >2,000 To 6,000, Deduct</i>	-1.11	
<i>For >6,000 To 8,000, Deduct</i>	-1.94	
<i>For >8,000, Deduct</i>	-3.04	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 16 13-0042 SF 10" Thick Non-Reinforced Concrete Block Foundation Wall Demolition	6.36	
For >500 To 2,000, Deduct	-0.48	
For >2,000 To 6,000, Deduct	-1.27	
For >6,000 To 8,000, Deduct	-2.23	
For >8,000, Deduct	-3.50	
02 41 16 13-0043 SF 12" Thick Non-Reinforced Concrete Block Foundation Wall Demolition	7.10	
For >500 To 2,000, Deduct	-0.53	
For >2,000 To 6,000, Deduct	-1.42	
For >6,000 To 8,000, Deduct	-2.49	
For >8,000, Deduct	-3.91	
02 41 16 13-0044 SF 16" Thick Non-Reinforced Concrete Block Foundation Wall Demolition	8.87	
For >500 To 2,000, Deduct	-0.67	
For >2,000 To 6,000, Deduct	-1.77	
For >6,000 To 8,000, Deduct	-3.10	
For >8,000, Deduct	-4.88	
02 41 16 13-0045 SF 4" Thick Reinforced Concrete Block Foundation Wall Demolition	5.51	
For >500 To 2,000, Deduct	-0.41	
For >2,000 To 6,000, Deduct	-1.10	
For >6,000 To 8,000, Deduct	-1.93	
For >8,000, Deduct	-3.03	
02 41 16 13-0046 SF 6" Thick Reinforced Concrete Block Foundation Wall Demolition	5.88	
For >500 To 2,000, Deduct	-0.44	
For >2,000 To 6,000, Deduct	-1.18	
For >6,000 To 8,000, Deduct	-2.06	
For >8,000, Deduct	-3.23	
02 41 16 13-0047 SF 8" Thick Reinforced Concrete Block Foundation Wall Demolition	6.64	
For >500 To 2,000, Deduct	-0.50	
For >2,000 To 6,000, Deduct	-1.33	
For >6,000 To 8,000, Deduct	-2.32	
For >8,000, Deduct	-3.65	
02 41 16 13-0048 SF 10" Thick Reinforced Concrete Block Foundation Wall Demolition	7.64	
For >500 To 2,000, Deduct	-0.57	
For >2,000 To 6,000, Deduct	-1.53	
For >6,000 To 8,000, Deduct	-2.67	
For >8,000, Deduct	-4.20	
02 41 16 13-0049 SF 12" Thick Reinforced Concrete Block Foundation Wall Demolition	8.52	
For >500 To 2,000, Deduct	-0.64	
For >2,000 To 6,000, Deduct	-1.70	
For >6,000 To 8,000, Deduct	-2.98	
For >8,000, Deduct	-4.69	
02 41 16 13-0050 SF 16" Thick Reinforced Concrete Block Foundation Wall Demolition	10.65	
For >500 To 2,000, Deduct	-0.80	
For >2,000 To 6,000, Deduct	-2.13	
For >6,000 To 8,000, Deduct	-3.73	
For >8,000, Deduct	-5.86	
02 41 16 13-0051 Brick Foundation Wall Demolition (02 41 16 13-0021)	4.60	
02 41 16 13-0052 SF 4" Thick Brick Foundation Wall Demolition	4.60	
For >500 To 2,000, Deduct	-0.35	
For >2,000 To 6,000, Deduct	-0.92	
For >6,000 To 8,000, Deduct	-1.61	
For >8,000, Deduct	-2.53	
02 41 16 13-0053 SF 6" Thick Brick Foundation Wall Demolition	4.90	
For >500 To 2,000, Deduct	-0.37	
For >2,000 To 6,000, Deduct	-0.98	
For >6,000 To 8,000, Deduct	-1.72	
For >8,000, Deduct	-2.70	
02 41 16 13-0054 SF 8" Thick Brick Foundation Wall Demolition	5.53	
For >500 To 2,000, Deduct	-0.41	
For >2,000 To 6,000, Deduct	-1.11	
For >6,000 To 8,000, Deduct	-1.94	
For >8,000, Deduct	-3.04	
02 41 16 13-0055 SF 10" Thick Brick Foundation Wall Demolition	6.36	
For >500 To 2,000, Deduct	-0.48	
For >2,000 To 6,000, Deduct	-1.27	
For >6,000 To 8,000, Deduct	-2.23	
For >8,000, Deduct	-3.50	
02 41 16 13-0056 SF 12" Thick Brick Foundation Wall Demolition	7.10	
For >500 To 2,000, Deduct	-0.53	
For >2,000 To 6,000, Deduct	-1.42	
For >6,000 To 8,000, Deduct	-2.49	
For >8,000, Deduct	-3.91	
02 41 16 13-0057 SF 16" Thick Brick Foundation Wall Demolition	8.87	
For >500 To 2,000, Deduct	-0.67	
For >2,000 To 6,000, Deduct	-1.77	
For >6,000 To 8,000, Deduct	-3.10	
For >8,000, Deduct	-4.88	
02 41 16 13-0058 Stone Foundation Demolition (02 41 16 13-0021)	14.61	
02 41 16 13-0059 CF Stone Footing Or Foundation Wall Demolition	14.61	
For >135 To 405, Deduct	-1.28	
For >405 To 810, Deduct	-2.56	
For >810 To 2025, Deduct	-3.65	
For >2025, Deduct	-5.84	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
------------------------------	---------------------------	-------------------------

02 41 16 13-0060 Other Foundation Demolition <small>(02 41 16 13-0021)</small>		
02 41 16 13-0061	CF Concrete Footing For Fence, Gate Or Playground Equipment Post, Etc. Demolition	15.36
	Note: Includes excavation.	
	For >135 To 405, Deduct	-1.34
	For >405 To 810, Deduct	-2.69
	For >810 To 2025, Deduct	-3.84
	For >2025, Deduct	-6.14

02 41 19 Selective Demolition (02 41)

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

02 41 19 13-0001 Saw Cutting <small>(02 41 19 13)</small>		
	Note: Includes blade wear, water, taping off area, layout, clean-up and mist spray with wet vacuuming for dust control where necessary. For projects where the total saw cutting charge is less than the minimum charge, use task "Saw Cut Minimum Charge" exclusively. Task "Saw Cut Minimum Charge" should not be used in conjunction with any other tasks in this section.	
02 41 19 13-0002	LF Bituminous Paving Up To 4" Depth, Saw Cut	2.26
	For Each Additional Pass (Depth To 3"), Add	0.88
	For >250, Deduct	-0.22
02 41 19 13-0003	LF Brick Masonry Up To 4" Depth, Saw Cut	8.52
	For Each Additional Pass (Depth To 3"), Add	3.38
	For >250, Deduct	-0.84
02 41 19 13-0004	LF Concrete Block Up To 4" Depth, Saw Cut	7.71
	For Each Additional Pass (Depth To 3"), Add	3.05
	For >250, Deduct	-0.76
02 41 19 13-0005	LF Non-Reinforced Concrete Slab Or Paving Up To 4" Depth, Saw Cut	2.59
	For Each Additional Pass (Depth To 3"), Add	1.00
	For >250, Deduct	-0.25
02 41 19 13-0006	LF Welded Wire Reinforced Concrete Slab Up To 4" Depth, Saw Cut	3.41
	For Each Additional Pass (Depth To 3"), Add	1.32
	For >250, Deduct	-0.33
02 41 19 13-0007	LF Rod Reinforced Concrete Slab Up To 4" Depth, Saw Cut	5.66
	For Each Additional Pass (Depth To 3"), Add	2.22
	For >250, Deduct	-0.55
02 41 19 13-0008	LF Plain Concrete Walls Up To 4" Depth, Saw Cut	10.90
	For Each Additional Pass (Depth To 3"), Add	4.32
	For >250, Deduct	-1.08
02 41 19 13-0009	LF Saw Cut Rod Reinforced Concrete Walls Up To 4" Depth	14.65
	For Each Additional Pass (Depth To 3"), Add	5.81
	For >250, Deduct	-1.45
02 41 19 13-0010	LF Concrete And Asphalt Up To 4" Depth, Saw Cut In Streets	3.01
	For Each Additional Pass (Depth To 3"), Add	1.08
	For >250, Deduct	-0.26
02 41 19 13-0011	LF Igneous Stone Pavements Up To 4" Depth, Saw Cut	7.73
	For Each Additional Pass (Depth To 3"), Add	3.05
	For >250, Deduct	-0.76
02 41 19 13-0012	LF Sedimentary Stone Pavements Up To 4" Depth, Saw Cut	7.73
	For Each Additional Pass (Depth To 3"), Add	3.05
	For >250, Deduct	-0.76
02 41 19 13-0013	LF Metamorphic Stone Pavements Up To 4" Depth, Saw Cut	7.73
	For Each Additional Pass (Depth To 3"), Add	3.05
	For >250, Deduct	-0.76
02 41 19 13-0014	LF Terrazzo Stone Pavements Up To 4" Depth, Saw Cut	7.73
	For Each Additional Pass (Depth To 3"), Add	3.05
	For >250, Deduct	-0.76
02 41 19 13-0015	EA Saw Cut Minimum Charge	1,076.29
	Note: For projects where the total saw cutting charge is less than the minimum charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.	

02 41 19 13-0016 Torch Cutting (02 41 19 13)

	Note: Includes grinding edge	
02 41 19 13-0017	LF Up To 1/2", Torch Cut Steel Plate	3.13
02 41 19 13-0018	LF >1/2" To 1" Thick, Torch Cut Steel Plate	6.27
02 41 19 13-0019	LF >1" To 1-1/2" Thick, Torch Cut Steel Plate	9.41
02 41 19 13-0020	LF >1-1/2" To 2" Thick, Torch Cut Steel Plate	12.55
02 41 19 13-0021	LF >2" To 2-1/2" Thick, Torch Cut Steel Plate	15.68
02 41 19 13-0022	LF >2-1/2" To 3" Thick, Torch Cut Steel Plate	18.82
02 41 19 13-0023	EA Torch Cutting Minimum Charge	1,023.42
	Note: For projects where the total torch cutting charge is less than the minimum charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.	

02 41 19 13-0024 Drilling In Existing Materials (02 41 19 13)

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

02 41 19 13-0025 Concrete Core Drilling (02 41 19 13-0024)

02 41 19 13-0026 Up To 4" Thick Concrete Core Drilling (02 41 19 13-0025)

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0027 EA Drill 1" Diameter Core In Up To 4" Concrete.....	41.78	
For Horizontal Cores, Add	8.26	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	16.51	
02 41 19 13-0028 EA Drill 1-1/2" Diameter Core In Up To 4" Concrete.....	46.35	
For Horizontal Cores, Add	9.17	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	18.34	
02 41 19 13-0029 EA Drill 2" Diameter Core In Up To 4" Concrete.....	51.46	
For Horizontal Cores, Add	10.19	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	20.38	
02 41 19 13-0030 EA Drill 3" Diameter Core In Up To 4" Concrete.....	73.47	
For Horizontal Cores, Add	14.56	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	29.12	
02 41 19 13-0031 EA Drill 4" Diameter Core In Up To 4" Concrete.....	98.45	
For Horizontal Cores, Add	19.51	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	39.02	
02 41 19 13-0032 EA Drill 6" Diameter Core In Up To 4" Concrete.....	110.34	
For Horizontal Cores, Add	21.84	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	43.68	
02 41 19 13-0033 EA Drill 8" Diameter Core In Up To 4" Concrete.....	176.28	
For Horizontal Cores, Add	34.94	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	69.88	
02 41 19 13-0034 EA Drill 10" Diameter Core In Up To 4" Concrete.....	220.53	
For Horizontal Cores, Add	43.68	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	87.35	
02 41 19 13-0035 EA Drill 12" Diameter Core In Up To 4" Concrete.....	257.36	
For Horizontal Cores, Add	50.96	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	101.92	
02 41 19 13-0036 EA Drill 14" Diameter Core In Up To 4" Concrete.....	294.20	
For Horizontal Cores, Add	58.23	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	116.46	
02 41 19 13-0037 EA Drill 18" Diameter Core In Up To 4" Concrete.....	331.46	
For Horizontal Cores, Add	65.51	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	131.01	
02 41 19 13-0038 >4" To 6" Thick Concrete Core Drilling (02 41 19 13-0025)		
02 41 19 13-0039 EA Drill 1" Diameter Core In >4" To 6" Concrete.....	59.72	
For Horizontal Cores, Add	11.79	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	23.58	
02 41 19 13-0040 EA Drill 1-1/2" Diameter Core In >4" To 6" Concrete.....	66.27	
For Horizontal Cores, Add	13.10	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	26.20	
02 41 19 13-0041 EA Drill 2" Diameter Core In >4" To 6" Concrete.....	73.55	
For Horizontal Cores, Add	14.56	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	29.11	
02 41 19 13-0042 EA Drill 3" Diameter Core In >4" To 6" Concrete.....	88.42	
For Horizontal Cores, Add	17.47	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	34.94	
02 41 19 13-0043 EA Drill 4" Diameter Core In >4" To 6" Concrete.....	110.59	
For Horizontal Cores, Add	21.84	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	43.68	
02 41 19 13-0044 EA Drill 6" Diameter Core In >4" To 6" Concrete.....	147.33	
For Horizontal Cores, Add	29.12	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	58.24	
02 41 19 13-0045 EA Drill 8" Diameter Core In >4" To 6" Concrete.....	220.76	
For Horizontal Cores, Add	43.68	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	87.35	
02 41 19 13-0046 EA Drill 10" Diameter Core In >4" To 6" Concrete.....	258.00	
For Horizontal Cores, Add	50.96	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	101.92	
02 41 19 13-0047 EA Drill 12" Diameter Core In >4" To 6" Concrete.....	294.99	
For Horizontal Cores, Add	58.23	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	116.46	
02 41 19 13-0048 EA Drill 14" Diameter Core In >4" To 6" Concrete.....	332.21	
For Horizontal Cores, Add	65.51	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	131.01	
02 41 19 13-0049 EA Drill 18" Diameter Core In >4" To 6" Concrete.....	370.01	
For Horizontal Cores, Add	72.79	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	145.58	
02 41 19 13-0050 >6" To 8" Thick Concrete Core Drilling (02 41 19 13-0025)		
02 41 19 13-0051 EA Drill 1" Diameter Core In >6" To 8" Concrete.....	65.91	
For Horizontal Cores, Add	12.97	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	25.94	
02 41 19 13-0052 EA Drill 1-1/2" Diameter Core In >6" To 8" Concrete.....	73.11	
For Horizontal Cores, Add	14.41	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	28.82	
02 41 19 13-0053 EA Drill 2" Diameter Core In >6" To 8" Concrete.....	81.12	
For Horizontal Cores, Add	16.01	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	32.03	
02 41 19 13-0054 EA Drill 3" Diameter Core In >6" To 8" Concrete.....	96.07	
For Horizontal Cores, Add	18.93	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	37.85	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0055 EA Drill 4" Diameter Core In >6" To 8" Concrete.....	125.63	
<i>For Horizontal Cores, Add</i>	24.75	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	49.50	
02 41 19 13-0056 EA Drill 6" Diameter Core In >6" To 8" Concrete.....	177.05	
<i>For Horizontal Cores, Add</i>	34.94	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	69.88	
02 41 19 13-0057 EA Drill 8" Diameter Core In >6" To 8" Concrete.....	294.33	
<i>For Horizontal Cores, Add</i>	58.23	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	116.46	
02 41 19 13-0058 EA Drill 10" Diameter Core In >6" To 8" Concrete.....	331.80	
<i>For Horizontal Cores, Add</i>	65.51	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	131.01	
02 41 19 13-0059 EA Drill 12" Diameter Core In >6" To 8" Concrete.....	369.07	
<i>For Horizontal Cores, Add</i>	72.79	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	145.58	
02 41 19 13-0060 EA Drill 14" Diameter Core In >6" To 8" Concrete.....	406.56	
<i>For Horizontal Cores, Add</i>	80.05	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	160.11	
02 41 19 13-0061 EA Drill 18" Diameter Core In >6" To 8" Concrete.....	444.94	
<i>For Horizontal Cores, Add</i>	87.35	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	174.70	
02 41 19 13-0062 >8" To 10" Thick Concrete Core Drilling <small>(02 41 19 13-0025)</small>		
02 41 19 13-0063 EA Drill 1" Diameter Core In >8" To 10" Concrete.....	77.97	
<i>For Horizontal Cores, Add</i>	15.33	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	30.66	
02 41 19 13-0064 EA Drill 1-1/2" Diameter Core In >8" To 10" Concrete.....	86.49	
<i>For Horizontal Cores, Add</i>	17.03	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	34.07	
02 41 19 13-0065 EA Drill 2" Diameter Core In >8" To 10" Concrete.....	95.94	
<i>For Horizontal Cores, Add</i>	18.92	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	37.85	
02 41 19 13-0066 EA Drill 3" Diameter Core In >8" To 10" Concrete.....	111.01	
<i>For Horizontal Cores, Add</i>	21.84	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	43.68	
02 41 19 13-0067 EA Drill 4" Diameter Core In >8" To 10" Concrete.....	126.12	
<i>For Horizontal Cores, Add</i>	24.75	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	49.50	
02 41 19 13-0068 EA Drill 6" Diameter Core In >8" To 10" Concrete.....	177.64	
<i>For Horizontal Cores, Add</i>	34.94	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	69.88	
02 41 19 13-0069 EA Drill 8" Diameter Core In >8" To 10" Concrete.....	295.14	
<i>For Horizontal Cores, Add</i>	58.23	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	116.46	
02 41 19 13-0070 EA Drill 10" Diameter Core In >8" To 10" Concrete.....	332.86	
<i>For Horizontal Cores, Add</i>	65.51	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	131.01	
02 41 19 13-0071 EA Drill 12" Diameter Core In >8" To 10" Concrete.....	370.27	
<i>For Horizontal Cores, Add</i>	72.77	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	145.55	
02 41 19 13-0072 EA Drill 14" Diameter Core In >8" To 10" Concrete.....	408.17	
<i>For Horizontal Cores, Add</i>	80.05	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	160.11	
02 41 19 13-0073 EA Drill 18" Diameter Core In >8" To 10" Concrete.....	446.96	
<i>For Horizontal Cores, Add</i>	87.33	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	174.66	
02 41 19 13-0074 >10" To 12" Thick Concrete Core Drilling <small>(02 41 19 13-0025)</small>		
02 41 19 13-0075 EA Drill 1" Diameter Core In >10" To 12" Concrete.....	84.15	
<i>For Horizontal Cores, Add</i>	16.51	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	33.02	
02 41 19 13-0076 EA Drill 1-1/2" Diameter Core In >10" To 12" Concrete.....	93.32	
<i>For Horizontal Cores, Add</i>	18.34	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	36.69	
02 41 19 13-0077 EA Drill 2" Diameter Core In >10" To 12" Concrete.....	103.51	
<i>For Horizontal Cores, Add</i>	20.38	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	40.76	
02 41 19 13-0078 EA Drill 3" Diameter Core In >10" To 12" Concrete.....	111.40	
<i>For Horizontal Cores, Add</i>	21.84	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	43.68	
02 41 19 13-0079 EA Drill 4" Diameter Core In >10" To 12" Concrete.....	148.46	
<i>For Horizontal Cores, Add</i>	29.12	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	58.24	
02 41 19 13-0080 EA Drill 6" Diameter Core In >10" To 12" Concrete.....	192.80	
<i>For Horizontal Cores, Add</i>	37.85	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	75.71	
02 41 19 13-0081 EA Drill 8" Diameter Core In >10" To 12" Concrete.....	310.52	
<i>For Horizontal Cores, Add</i>	61.14	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	122.29	
02 41 19 13-0082 EA Drill 10" Diameter Core In >10" To 12" Concrete.....	333.93	
<i>For Horizontal Cores, Add</i>	65.51	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	131.01	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0083	EA		Drill 12" Diameter Core In >10" To 12" Concrete	386.21	
			<i>For Horizontal Cores, Add</i>	75.71	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	151.42	
02 41 19 13-0084			>12" Thick Concrete Core Drilling (02 41 19 13-0025)		
02 41 19 13-0085	IN		Drill 1" Diameter Core In >12" Concrete	10.22	
			<i>For Horizontal Cores, Add</i>	2.02	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	4.04	
02 41 19 13-0086	IN		Drill 1-1/2" Diameter Core In >12" Concrete	11.35	
			<i>For Horizontal Cores, Add</i>	2.24	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	4.49	
02 41 19 13-0087	IN		Drill 2" Diameter Core In >12" Concrete	12.59	
			<i>For Horizontal Cores, Add</i>	2.49	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	4.98	
02 41 19 13-0088	IN		Drill 3" Diameter Core In >12" Concrete	13.82	
			<i>For Horizontal Cores, Add</i>	2.73	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	5.46	
02 41 19 13-0089	IN		Drill 4" Diameter Core In >12" Concrete	18.43	
			<i>For Horizontal Cores, Add</i>	3.64	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	7.28	
02 41 19 13-0090	IN		Drill 6" Diameter Core In >12" Concrete	23.96	
			<i>For Horizontal Cores, Add</i>	4.73	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	9.47	
02 41 19 13-0091	IN		Drill 8" Diameter Core In >12" Concrete	38.65	
			<i>For Horizontal Cores, Add</i>	7.65	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	15.30	
02 41 19 13-0092	IN		Drill 10" Diameter Core In >12" Concrete	41.65	
			<i>For Horizontal Cores, Add</i>	8.22	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	16.45	
02 41 19 13-0093	IN		Drill 12" Diameter Core In >12" Concrete	47.98	
			<i>For Horizontal Cores, Add</i>	9.47	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	18.94	
02 41 19 13-0094			Brick/Concrete Block Core Drilling (02 41 19 13-0024)		
02 41 19 13-0095			Up To 4" Thick Brick/Concrete Block Core Drilling (02 41 19 13-0094)		
02 41 19 13-0096	EA		Drill 1" Diameter Core In Up To 4" Brick/Concrete Block	33.52	
			<i>For Horizontal Cores, Add</i>	6.60	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	13.21	
02 41 19 13-0097	EA		Drill 1-1/2" Diameter Core In Up To 4" Brick/Concrete Block	37.18	
			<i>For Horizontal Cores, Add</i>	7.34	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	14.67	
02 41 19 13-0098	EA		Drill 2" Diameter Core In Up To 4" Brick/Concrete Block	41.26	
			<i>For Horizontal Cores, Add</i>	8.15	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	16.30	
02 41 19 13-0099	EA		Drill 3" Diameter Core In Up To 4" Brick/Concrete Block	58.91	
			<i>For Horizontal Cores, Add</i>	11.65	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	23.29	
02 41 19 13-0100	EA		Drill 4" Diameter Core In Up To 4" Brick/Concrete Block	78.94	
			<i>For Horizontal Cores, Add</i>	15.61	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	31.21	
02 41 19 13-0101	EA		Drill 6" Diameter Core In Up To 4" Brick/Concrete Block	88.51	
			<i>For Horizontal Cores, Add</i>	17.47	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	34.94	
02 41 19 13-0102	EA		Drill 8" Diameter Core In Up To 4" Brick/Concrete Block	141.33	
			<i>For Horizontal Cores, Add</i>	27.95	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	55.90	
02 41 19 13-0103	EA		Drill 10" Diameter Core In Up To 4" Brick/Concrete Block	176.85	
			<i>For Horizontal Cores, Add</i>	34.94	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	69.88	
02 41 19 13-0104	EA		Drill 12" Diameter Core In Up To 4" Brick/Concrete Block	206.40	
			<i>For Horizontal Cores, Add</i>	40.77	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	81.53	
02 41 19 13-0105	EA		Drill 14" Diameter Core In Up To 4" Brick/Concrete Block	235.98	
			<i>For Horizontal Cores, Add</i>	46.58	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	93.17	
02 41 19 13-0106	EA		Drill 18" Diameter Core In Up To 4" Brick/Concrete Block	265.95	
			<i>For Horizontal Cores, Add</i>	52.40	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	104.81	
02 41 19 13-0107			>4" To 6" Thick Brick/Concrete Block Core Drilling (02 41 19 13-0094)		
02 41 19 13-0108	EA		Drill 1" Diameter Core In >4" To 6" Brick/Concrete Block	47.93	
			<i>For Horizontal Cores, Add</i>	9.43	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	18.86	
02 41 19 13-0109	EA		Drill 1-1/2" Diameter Core In >4" To 6" Brick/Concrete Block	53.17	
			<i>For Horizontal Cores, Add</i>	10.48	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	20.96	
02 41 19 13-0110	EA		Drill 2" Diameter Core In >4" To 6" Brick/Concrete Block	58.99	
			<i>For Horizontal Cores, Add</i>	11.64	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	23.29	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0111 EA Drill 3" Diameter Core In >4" To 6" Brick/Concrete Block	70.94	
<i>For Horizontal Cores, Add</i>	13.98	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	27.95	
02 41 19 13-0112 EA Drill 4" Diameter Core In >4" To 6" Brick/Concrete Block	88.76	
<i>For Horizontal Cores, Add</i>	17.47	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	34.94	
02 41 19 13-0113 EA Drill 6" Diameter Core In >4" To 6" Brick/Concrete Block	118.21	
<i>For Horizontal Cores, Add</i>	23.29	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	46.59	
02 41 19 13-0114 EA Drill 8" Diameter Core In >4" To 6" Brick/Concrete Block	177.08	
<i>For Horizontal Cores, Add</i>	34.94	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	69.88	
02 41 19 13-0115 EA Drill 10" Diameter Core In >4" To 6" Brick/Concrete Block	207.04	
<i>For Horizontal Cores, Add</i>	40.77	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	81.53	
02 41 19 13-0116 EA Drill 12" Diameter Core In >4" To 6" Brick/Concrete Block	236.77	
<i>For Horizontal Cores, Add</i>	46.58	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	93.17	
02 41 19 13-0117 EA Drill 14" Diameter Core In >4" To 6" Brick/Concrete Block	266.70	
<i>For Horizontal Cores, Add</i>	52.40	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	104.81	
02 41 19 13-0118 EA Drill 18" Diameter Core In >4" To 6" Brick/Concrete Block	297.22	
<i>For Horizontal Cores, Add</i>	58.23	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	116.46	
02 41 19 13-0119 >6" To 8" Thick Brick/Concrete Block Core Drilling (02 41 19 13-0094)		
02 41 19 13-0120 EA Drill 1" Diameter Core In >6" To 8" Brick/Concrete Block	52.93	
<i>For Horizontal Cores, Add</i>	10.38	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	20.75	
02 41 19 13-0121 EA Drill 1-1/2" Diameter Core In >6" To 8" Brick/Concrete Block	58.70	
<i>For Horizontal Cores, Add</i>	11.53	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	23.06	
02 41 19 13-0122 EA Drill 2" Diameter Core In >6" To 8" Brick/Concrete Block	65.11	
<i>For Horizontal Cores, Add</i>	12.81	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	25.62	
02 41 19 13-0123 EA Drill 3" Diameter Core In >6" To 8" Brick/Concrete Block	77.14	
<i>For Horizontal Cores, Add</i>	15.14	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	30.28	
02 41 19 13-0124 EA Drill 4" Diameter Core In >6" To 8" Brick/Concrete Block	100.89	
<i>For Horizontal Cores, Add</i>	19.80	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	39.60	
02 41 19 13-0125 EA Drill 6" Diameter Core In >6" To 8" Brick/Concrete Block	142.10	
<i>For Horizontal Cores, Add</i>	27.95	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	55.90	
02 41 19 13-0126 EA Drill 8" Diameter Core In >6" To 8" Brick/Concrete Block	236.11	
<i>For Horizontal Cores, Add</i>	46.58	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	93.17	
02 41 19 13-0127 EA Drill 10" Diameter Core In >6" To 8" Brick/Concrete Block	266.29	
<i>For Horizontal Cores, Add</i>	52.40	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	104.81	
02 41 19 13-0128 EA Drill 12" Diameter Core In >6" To 8" Brick/Concrete Block	296.28	
<i>For Horizontal Cores, Add</i>	58.23	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	116.46	
02 41 19 13-0129 EA Drill 14" Diameter Core In >6" To 8" Brick/Concrete Block	326.51	
<i>For Horizontal Cores, Add</i>	64.04	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	128.09	
02 41 19 13-0130 EA Drill 18" Diameter Core In >6" To 8" Brick/Concrete Block	357.58	
<i>For Horizontal Cores, Add</i>	69.88	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	139.76	
02 41 19 13-0131 >8" To 10" Thick Brick/Concrete Block Core Drilling (02 41 19 13-0094)		
02 41 19 13-0132 EA Drill 1" Diameter Core In >8" To 10" Brick/Concrete Block	62.64	
<i>For Horizontal Cores, Add</i>	12.26	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	24.53	
02 41 19 13-0133 EA Drill 1-1/2" Diameter Core In >8" To 10" Brick/Concrete Block	69.45	
<i>For Horizontal Cores, Add</i>	13.63	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	27.25	
02 41 19 13-0134 EA Drill 2" Diameter Core In >8" To 10" Brick/Concrete Block	77.02	
<i>For Horizontal Cores, Add</i>	15.14	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	30.28	
02 41 19 13-0135 EA Drill 3" Diameter Core In >8" To 10" Brick/Concrete Block	89.18	
<i>For Horizontal Cores, Add</i>	17.47	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	34.94	
02 41 19 13-0136 EA Drill 4" Diameter Core In >8" To 10" Brick/Concrete Block	101.38	
<i>For Horizontal Cores, Add</i>	19.80	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	39.60	
02 41 19 13-0137 EA Drill 6" Diameter Core In >8" To 10" Brick/Concrete Block	142.69	
<i>For Horizontal Cores, Add</i>	27.95	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	55.90	
02 41 19 13-0138 EA Drill 8" Diameter Core In >8" To 10" Brick/Concrete Block	236.92	
<i>For Horizontal Cores, Add</i>	46.58	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	93.17	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0139 EA Drill 10" Diameter Core In >8" To 10" Brick/Concrete Block	267.35	
For Horizontal Cores, Add	52.40	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	104.81	
02 41 19 13-0140 EA Drill 12" Diameter Core In >8" To 10" Brick/Concrete Block	297.51	
For Horizontal Cores, Add	58.22	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	116.44	
02 41 19 13-0141 EA Drill 14" Diameter Core In >8" To 10" Brick/Concrete Block	328.12	
For Horizontal Cores, Add	64.04	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	128.09	
02 41 19 13-0142 EA Drill 18" Diameter Core In >8" To 10" Brick/Concrete Block	359.63	
For Horizontal Cores, Add	69.86	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	139.73	
02 41 19 13-0143 >10" To 12" Thick Brick/Concrete Block Core Drilling (02 41 19 13-0094)		
02 41 19 13-0144 EA Drill 1" Diameter Core In >10" To 12" Brick/Concrete Block	67.64	
For Horizontal Cores, Add	13.21	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	26.42	
02 41 19 13-0145 EA Drill 1-1/2" Diameter Core In >10" To 12" Brick/Concrete Block	74.98	
For Horizontal Cores, Add	14.68	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	29.35	
02 41 19 13-0146 EA Drill 2" Diameter Core In >10" To 12" Brick/Concrete Block	83.13	
For Horizontal Cores, Add	16.31	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	32.61	
02 41 19 13-0147 EA Drill 3" Diameter Core In >10" To 12" Brick/Concrete Block	89.57	
For Horizontal Cores, Add	17.47	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	34.94	
02 41 19 13-0148 EA Drill 4" Diameter Core In >10" To 12" Brick/Concrete Block	119.34	
For Horizontal Cores, Add	23.29	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	46.59	
02 41 19 13-0149 EA Drill 6" Diameter Core In >10" To 12" Brick/Concrete Block	154.95	
For Horizontal Cores, Add	30.28	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	60.57	
02 41 19 13-0150 EA Drill 8" Diameter Core In >10" To 12" Brick/Concrete Block	249.38	
For Horizontal Cores, Add	48.92	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	97.83	
02 41 19 13-0151 EA Drill 10" Diameter Core In >10" To 12" Brick/Concrete Block	268.42	
For Horizontal Cores, Add	52.40	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	104.81	
02 41 19 13-0152 EA Drill 12" Diameter Core In >10" To 12" Brick/Concrete Block	310.51	
For Horizontal Cores, Add	60.57	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	121.14	
02 41 19 13-0153 >12" Thick Brick/Concrete Block Core Drilling (02 41 19 13-0094)		
02 41 19 13-0154 IN Drill 1" Diameter Core In >12" Brick/Concrete Block	8.21	
For Horizontal Cores, Add	1.62	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	3.23	
02 41 19 13-0155 IN Drill 1-1/2" Diameter Core In >12" Brick/Concrete Block	9.10	
For Horizontal Cores, Add	1.79	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	3.59	
02 41 19 13-0156 IN Drill 2" Diameter Core In >12" Brick/Concrete Block	10.10	
For Horizontal Cores, Add	1.99	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	3.99	
02 41 19 13-0157 IN Drill 3" Diameter Core In >12" Brick/Concrete Block	11.10	
For Horizontal Cores, Add	2.18	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	4.37	
02 41 19 13-0158 IN Drill 4" Diameter Core In >12" Brick/Concrete Block	14.79	
For Horizontal Cores, Add	2.91	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	5.82	
02 41 19 13-0159 IN Drill 6" Diameter Core In >12" Brick/Concrete Block	19.22	
For Horizontal Cores, Add	3.79	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	7.57	
02 41 19 13-0160 IN Drill 8" Diameter Core In >12" Brick/Concrete Block	31.00	
For Horizontal Cores, Add	6.12	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	12.24	
02 41 19 13-0161 IN Drill 10" Diameter Core In >12" Brick/Concrete Block	33.42	
For Horizontal Cores, Add	6.58	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	13.16	
02 41 19 13-0162 IN Drill 12" Diameter Core In >12" Brick/Concrete Block	38.52	
For Horizontal Cores, Add	7.58	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	15.15	
02 41 19 13-0163 Asphalt Core Drilling (02 41 19 13-0024)		
02 41 19 13-0164 Up To 2" Thick Asphalt Core Drilling (02 41 19 13-0163)		
02 41 19 13-0165 EA Drill 1" Diameter Core In Up To 2" Asphalt	20.03	
02 41 19 13-0166 EA Drill 1-1/2" Diameter Core In Up To 2" Asphalt	25.05	
02 41 19 13-0167 EA Drill 2" Diameter Core In Up To 2" Asphalt	31.31	
02 41 19 13-0168 EA Drill 3" Diameter Core In Up To 2" Asphalt	38.84	
02 41 19 13-0169 EA Drill 4" Diameter Core In Up To 2" Asphalt	48.87	
02 41 19 13-0170 EA Drill 6" Diameter Core In Up To 2" Asphalt	61.40	
02 41 19 13-0171 EA Drill 8" Diameter Core In Up To 2" Asphalt	76.48	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0172 EA Drill 10" Diameter Core In Up To 2" Asphalt	95.24	
02 41 19 13-0173 EA Drill 12" Diameter Core In Up To 2" Asphalt	119.02	
02 41 19 13-0174 >2" To 3" Thick Asphalt Core Drilling (02 41 19 13-0163)		
02 41 19 13-0175 EA Drill 1" Diameter Core In >2" To 3" Asphalt	25.04	
02 41 19 13-0176 EA Drill 1-1/2" Diameter Core In >2" To 3" Asphalt	32.55	
02 41 19 13-0177 EA Drill 2" Diameter Core In >2" To 3" Asphalt	40.05	
02 41 19 13-0178 EA Drill 3" Diameter Core In >2" To 3" Asphalt	50.07	
02 41 19 13-0179 EA Drill 4" Diameter Core In >2" To 3" Asphalt	62.62	
02 41 19 13-0180 EA Drill 6" Diameter Core In >2" To 3" Asphalt	78.89	
02 41 19 13-0181 EA Drill 8" Diameter Core In >2" To 3" Asphalt	97.73	
02 41 19 13-0182 EA Drill 10" Diameter Core In >2" To 3" Asphalt	122.74	
02 41 19 13-0183 EA Drill 12" Diameter Core In >2" To 3" Asphalt	152.77	
02 41 19 13-0184 >3" To 4" Thick Asphalt Core Drilling (02 41 19 13-0163)		
02 41 19 13-0185 EA Drill 1" Diameter Core In >3" To 4" Asphalt	32.56	
02 41 19 13-0186 EA Drill 1-1/2" Diameter Core In >3" To 4" Asphalt	41.33	
02 41 19 13-0187 EA Drill 2" Diameter Core In >3" To 4" Asphalt	51.34	
02 41 19 13-0188 EA Drill 3" Diameter Core In >3" To 4" Asphalt	63.88	
02 41 19 13-0189 EA Drill 4" Diameter Core In >3" To 4" Asphalt	80.20	
02 41 19 13-0190 EA Drill 6" Diameter Core In >3" To 4" Asphalt	100.24	
02 41 19 13-0191 EA Drill 8" Diameter Core In >3" To 4" Asphalt	125.38	
02 41 19 13-0192 EA Drill 10" Diameter Core In >3" To 4" Asphalt	156.65	
02 41 19 13-0193 EA Drill 12 Diameter Core In >3" To 4" Asphalt.....	195.45	
02 41 19 13-0194 >4" To 6" Thick Asphalt Core Drilling (02 41 19 13-0163)		
02 41 19 13-0195 EA Drill 1" Diameter Core In >4" To 6" Asphalt	42.60	
02 41 19 13-0196 EA Drill 1-1/2" Diameter Core In >4" To 6" Asphalt	52.65	
02 41 19 13-0197 EA Drill 2" Diameter Core In >4" To 6" Asphalt	65.17	
02 41 19 13-0198 EA Drill 3" Diameter Core In >4" To 6" Asphalt	82.76	
02 41 19 13-0199 EA Drill 4" Diameter Core In >4" To 6" Asphalt	102.86	
02 41 19 13-0200 EA Drill 6" Diameter Core In >4" To 6" Asphalt	127.95	
02 41 19 13-0201 EA Drill 8" Diameter Core In >4" To 6" Asphalt	160.66	
02 41 19 13-0202 EA Drill 10" Diameter Core In >4" To 6" Asphalt	200.72	
02 41 19 13-0203 EA Drill 12" Diameter Core In >4" To 6" Asphalt	250.83	
02 41 19 13-0204 Manhole Core Drilling (02 41 19 13-0024)		
02 41 19 13-0205 EA Drill 4" Diameter Core In 6" Brick Manhole	219.33	
02 41 19 13-0206 EA Drill 5" Diameter Core In 6" Brick Manhole	250.64	
02 41 19 13-0207 EA Drill 6" Diameter Core In 6" Brick Manhole	292.31	
02 41 19 13-0208 EA Drill 8" Diameter Core In 6" Brick Manhole	438.35	
02 41 19 13-0209 EA Drill 2" Diameter Core In 8" Concrete Manhole.....	293.84	
02 41 19 13-0210 EA Drill 3" Diameter Core In 8" Concrete Manhole.....	312.92	
02 41 19 13-0211 EA Drill 4" Diameter Core In 8" Concrete Manhole.....	344.52	
02 41 19 13-0212 EA Drill 5" Diameter Core In 8" Concrete Manhole.....	369.66	
02 41 19 13-0213 EA Drill 6" Diameter Core In 8" Concrete Manhole.....	438.41	
02 41 19 13-0214 EA Drill 8" Diameter Core In 8" Concrete Manhole.....	626.14	
02 41 19 13-0215 EA Drill 2" Diameter Core In Fiberglass Manhole.....	29.13	
02 41 19 13-0216 EA Drill 3" Diameter Core In Fiberglass Manhole.....	33.64	
02 41 19 13-0217 EA Drill 4" Diameter Core In Fiberglass Manhole.....	36.45	
02 41 19 13-0218 EA Drill 5" Diameter Core In Fiberglass Manhole.....	39.76	
02 41 19 13-0219 EA Drill 6" Diameter Core In Fiberglass Manhole.....	43.74	
02 41 19 13-0220 EA Drill 8" Diameter Core In Fiberglass Manhole.....	48.61	
02 41 19 13-0221 Drilling In Concrete Per Inch Of Depth (02 41 19 13-0024)		
Note: Includes layout.		
02 41 19 13-0222 IN 1/4" Diameter Drilling In Concrete Per Inch Of Depth.....	2.05	
02 41 19 13-0223 IN 5/16" Diameter Drilling In Concrete Per Inch Of Depth.....	2.16	
02 41 19 13-0224 IN 3/8" Diameter Drilling In Concrete Per Inch Of Depth.....	2.28	
02 41 19 13-0225 IN 1/2" Diameter Drilling In Concrete Per Inch Of Depth.....	2.45	
02 41 19 13-0226 IN 5/8" Diameter Drilling In Concrete Per Inch Of Depth.....	2.60	
02 41 19 13-0227 IN 3/4" Diameter Drilling In Concrete Per Inch Of Depth.....	2.86	
02 41 19 13-0228 IN 7/8" Diameter Drilling In Concrete Per Inch Of Depth.....	3.09	
02 41 19 13-0229 IN 1" Diameter Drilling In Concrete Per Inch Of Depth.....	3.25	
02 41 19 13-0230 IN 1-1/8" Diameter Drilling In Concrete Per Inch Of Depth.....	3.84	
02 41 19 13-0231 IN 1-1/4" Diameter Drilling In Concrete Per Inch Of Depth.....	3.60	
02 41 19 13-0232 IN 1-3/8" Diameter Drilling In Concrete Per Inch Of Depth.....	3.84	
02 41 19 13-0233 IN 1-1/2" Diameter Drilling In Concrete Per Inch Of Depth.....	4.07	
02 41 19 13-0234 IN 1-3/4" Diameter Drilling In Concrete Per Inch Of Depth.....	4.51	
02 41 19 13-0235 IN 2" Diameter Drilling In Concrete Per Inch Of Depth.....	5.26	
02 41 19 13-0236 Drilling In Brick/Concrete Block Per Inch Of Depth (02 41 19 13-0024)		
Note: Includes layout.		
02 41 19 13-0237 IN 1/4" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth.....	1.71	



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

02 41 19 13-0238	IN	5/16" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	1.80
02 41 19 13-0239	IN	3/8" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	1.90
02 41 19 13-0240	IN	1/2" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	2.04
02 41 19 13-0241	IN	5/8" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	2.17
02 41 19 13-0242	IN	3/4" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	2.39
02 41 19 13-0243	IN	7/8" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	2.58
02 41 19 13-0244	IN	1" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	2.71
02 41 19 13-0245	IN	1-1/8" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	2.86
02 41 19 13-0246	IN	1-1/4" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	3.00
02 41 19 13-0247	IN	1-3/8" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	3.20
02 41 19 13-0248	IN	1-1/2" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	3.39
02 41 19 13-0249	IN	1-3/4" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	3.78
02 41 19 13-0250	IN	2" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	4.38

02 41 19 13-0251 Drilling In Wood Or Plastic Per Inch Of Depth (02 41 19 13-0024)

Note: Includes layout.

02 41 19 13-0252	IN	1/4" Diameter Drilling In Wood Or Plastic Per Inch Of Depth	0.84
02 41 19 13-0253	IN	5/16" Diameter Drilling In Wood Or Plastic Per Inch Of Depth	0.89
02 41 19 13-0254	IN	3/8" Diameter Drilling In Wood Or Plastic Per Inch Of Depth	0.95
02 41 19 13-0255	IN	1/2" Diameter Drilling In Wood Or Plastic Per Inch Of Depth	1.02
02 41 19 13-0256	IN	5/8" Diameter Drilling In Wood Or Plastic Per Inch Of Depth	1.08
02 41 19 13-0257	IN	3/4" Diameter Drilling In Wood Or Plastic Per Inch Of Depth	1.19
02 41 19 13-0258	IN	7/8" Diameter Drilling In Wood Or Plastic Per Inch Of Depth	1.29
02 41 19 13-0259	IN	1" Diameter Drilling In Wood Or Plastic Per Inch Of Depth	1.36
02 41 19 13-0260	IN	1-1/8" Diameter Drilling In Wood Or Plastic Per Inch Of Depth	1.42
02 41 19 13-0261	IN	1-1/4" Diameter Drilling In Wood Or Plastic Per Inch Of Depth	1.49
02 41 19 13-0262	IN	1-3/8" Diameter Drilling In Wood Or Plastic Per Inch Of Depth	1.59
02 41 19 13-0263	IN	1-1/2" Diameter Drilling In Wood Or Plastic Per Inch Of Depth	1.69
02 41 19 13-0264	IN	1-3/4" Diameter Drilling In Wood Or Plastic Per Inch Of Depth	1.88
02 41 19 13-0265	IN	2" Diameter Drilling In Wood Or Plastic Per Inch Of Depth	2.19

02 41 19 13-0266 Drilling In Drywall Or Plaster Per Inch Of Depth (02 41 19 13-0024)

Note: Includes layout, high efficiency particulate air (HEPA) vacuum and protection.

02 41 19 13-0267	IN	1/4" Diameter Drilling In Drywall Or Plaster Per Inch Of Depth	0.84
02 41 19 13-0268	IN	5/16" Diameter Drilling In Drywall Or Plaster Per Inch Of Depth	0.89
02 41 19 13-0269	IN	3/8" Diameter Drilling In Drywall Or Plaster Per Inch Of Depth	0.95
02 41 19 13-0270	IN	1/2" Diameter Drilling In Drywall Or Plaster Per Inch Of Depth	1.02
02 41 19 13-0271	IN	5/8" Diameter Drilling In Drywall Or Plaster Per Inch Of Depth	1.08
02 41 19 13-0272	IN	3/4" Diameter Drilling In Drywall Or Plaster Per Inch Of Depth	1.19
02 41 19 13-0273	IN	7/8" Diameter Drilling In Drywall Or Plaster Per Inch Of Depth	1.29
02 41 19 13-0274	IN	1" Diameter Drilling In Drywall Or Plaster Per Inch Of Depth	1.36
02 41 19 13-0275	IN	1-1/8" Diameter Drilling In Drywall Or Plaster Per Inch Of Depth	1.42
02 41 19 13-0276	IN	1-1/4" Diameter Drilling In Drywall Or Plaster Per Inch Of Depth	1.49
02 41 19 13-0277	IN	1-3/8" Diameter Drilling In Drywall Or Plaster Per Inch Of Depth	1.59
02 41 19 13-0278	IN	1-1/2" Diameter Drilling In Drywall Or Plaster Per Inch Of Depth	1.69
02 41 19 13-0279	IN	1-3/4" Diameter Drilling In Drywall Or Plaster Per Inch Of Depth	1.88
02 41 19 13-0280	IN	2" Diameter Drilling In Drywall Or Plaster Per Inch Of Depth	2.18
02 41 19 13-0281	IN	Drill 3" Diameter Core In Wood Or Plastic Per Inch Of Depth	2.89
02 41 19 13-0282	IN	Drill 4" Diameter Core In Wood Or Plastic Per Inch Of Depth	3.65
02 41 19 13-0283	IN	Drill 5" Diameter Core In Wood Or Plastic Per Inch Of Depth	4.11
02 41 19 13-0284	IN	Drill 6" Diameter Core In Wood Or Plastic Per Inch Of Depth	4.59

02 41 19 13-0285 Limestone Core Drilling (02 41 19 13-0024)

02 41 19 13-0286 10" To 14" Thick Limestone Core Drilling (02 41 19 13-0285)

02 41 19 13-0287	EA	Drill 1" Diameter Core In 10" To 14" Limestone	62.96
02 41 19 13-0288	EA	Drill 1-1/2" Diameter Core In 10" To 14" Limestone	75.61
02 41 19 13-0289	EA	Drill 2" Diameter Core In 10" To 14" Limestone	82.04
02 41 19 13-0290	EA	Drill 3" Diameter Core In 10" To 14" Limestone	94.91
02 41 19 13-0291	EA	Drill 4" Diameter Core In 10" To 14" Limestone	107.79
02 41 19 13-0292	EA	Drill 6" Diameter Core In 10" To 14" Limestone	151.86
02 41 19 13-0293	EA	Drill 8" Diameter Core In 10" To 14" Limestone	252.38

02 41 19 13-0294 15" To 18" Thick Limestone Core Drilling (02 41 19 13-0285)

02 41 19 13-0295	EA	Drill 1" Diameter Core In 15" To 18" Limestone	69.34
02 41 19 13-0296	EA	Drill 1-1/2" Diameter Core In 15" To 18" Limestone	82.02
02 41 19 13-0297	EA	Drill 2" Diameter Core In 15" To 18" Limestone	88.49
02 41 19 13-0298	EA	Drill 3" Diameter Core In 15" To 18" Limestone	95.21
02 41 19 13-0299	EA	Drill 4" Diameter Core In 15" To 18" Limestone	126.88
02 41 19 13-0300	EA	Drill 6" Diameter Core In 15" To 18" Limestone	164.77
02 41 19 13-0301	EA	Drill 8" Diameter Core In 15" To 18" Limestone	265.59

02 41 19 13-0302 19" To 24" Thick Limestone Core Drilling (02 41 19 13-0285)

02 41 19 13-0303	EA	Drill 1" Diameter Core In 19" To 24" Limestone	75.67
02 41 19 13-0304	EA	Drill 1-1/2" Diameter Core In 19" To 24" Limestone	88.40
02 41 19 13-0305	EA	Drill 2" Diameter Core In 19" To 24" Limestone	94.92



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0306 EA Drill 3" Diameter Core In 19" To 24" Limestone	107.92	
02 41 19 13-0307 EA Drill 4" Diameter Core In 19" To 24" Limestone	152.15	
02 41 19 13-0308 EA Drill 6" Diameter Core In 19" To 24" Limestone	190.14	
02 41 19 13-0309 EA Drill 8" Diameter Core In 19" To 24" Limestone	285.03	
02 41 19 13-0310 Minimum Charge For Core Drilling (02 41 19 13-0024)		
02 41 19 13-0311 EA Core Drill Minimum Charge	865.07	
Note: For projects where the total core drilling charge is less than the minimum charge, use task "Minimum Charge For Core Drilling" exclusively. Task "Minimum Charge For Core Drilling" should not be used in conjunction with any other tasks in this section. Does not apply to sections "Drilling In Concrete Per Inch Of Depth" or "Drilling In Brick Or Block Per Inch Of Depth" or "Drilling In Wood Or Plastic Per Inch Of Depth".		
02 41 19 13-0312 Cutouts (02 41 19 13)		
Note: Includes saw cutting and removal of material. Not to be used for openings greater than 24 SF.		
02 41 19 13-0313 Reinforced Concrete Slab On Grade Cutouts (02 41 19 13-0312)		
02 41 19 13-0314 SF 4" Thick Reinforced Concrete Slab On Grade Cutouts, <24 SF	48.67	
02 41 19 13-0315 SF 6" Thick Reinforced Concrete Slab On Grade Cutouts, <24 SF	51.62	
02 41 19 13-0316 SF 8" Thick Reinforced Concrete Slab On Grade Cutouts, <24 SF	54.56	
02 41 19 13-0317 SF 10" Thick Reinforced Concrete Slab On Grade Cutouts, <24 SF	57.51	
02 41 19 13-0318 SF 12" Thick Reinforced Concrete Slab On Grade Cutouts, <24 SF	58.99	
02 41 19 13-0319 Reinforced Concrete Elevated Slab Cutouts (02 41 19 13-0312)		
Note: Includes cutting and removing steel decking.		
02 41 19 13-0320 SF 4" Thick Reinforced Concrete Elevated Slab Cutouts, <24 SF	59.31	
02 41 19 13-0321 SF 6" Thick Reinforced Concrete Elevated Slab Cutouts, <24 SF	62.91	
02 41 19 13-0322 SF 8" Thick Reinforced Concrete Elevated Slab Cutouts, <24 SF	66.51	
02 41 19 13-0323 SF 10" Thick Reinforced Concrete Elevated Slab Cutouts, <24 SF	70.10	
02 41 19 13-0324 SF 12" Thick Reinforced Concrete Elevated Slab Cutouts, <24 SF	71.90	
02 41 19 13-0325 Reinforced Concrete Wall Cutouts (02 41 19 13-0312)		
02 41 19 13-0326 SF 4" Thick Reinforced Concrete Wall Cutouts, <24 SF	60.84	
02 41 19 13-0327 SF 6" Thick Reinforced Concrete Wall Cutouts, <24 SF	64.52	
02 41 19 13-0328 SF 8" Thick Reinforced Concrete Wall Cutouts, <24 SF	68.21	
02 41 19 13-0329 SF 10" Thick Reinforced Concrete Wall Cutouts, <24 SF	71.90	
02 41 19 13-0330 SF 12" Thick Reinforced Concrete Wall Cutouts, <24 SF	73.74	
02 41 19 13-0331 Brick Wall Cutouts (02 41 19 13-0312)		
Note: Excludes toothing.		
02 41 19 13-0332 SF 4" Thick Brick Wall Cutouts, <24 SF	18.43	
02 41 19 13-0333 SF 6" Thick Brick Wall Cutouts, <24 SF	30.42	
02 41 19 13-0334 SF 8" Thick Brick Wall Cutouts, <24 SF	42.36	
02 41 19 13-0335 SF 10" Thick Brick Wall Cutouts, <24 SF	51.62	
02 41 19 13-0336 SF 12" Thick Brick Wall Cutouts, <24 SF	61.76	
02 41 19 13-0337 SF 16" Thick Brick Wall Cutouts, <24 SF	72.82	
02 41 19 13-0338 Concrete Block Wall Cutouts (02 41 19 13-0312)		
Note: Excludes toothing.		
02 41 19 13-0339 SF 4" Thick Concrete Block Wall Cutouts, <24 SF	30.50	
02 41 19 13-0340 SF 6" Thick Concrete Block Wall Cutouts, <24 SF	32.29	
02 41 19 13-0341 SF 8" Thick Concrete Block Wall Cutouts, <24 SF	34.10	
02 41 19 13-0342 SF 10" Thick Concrete Block Wall Cutouts, <24 SF	35.95	
02 41 19 13-0343 SF 12" Thick Concrete Block Wall Cutouts, <24 SF	36.87	
02 41 19 13-0344 SF 16" Thick Concrete Block Wall Cutouts, <24 SF	38.71	
02 41 19 13-0345 Limestone Cutouts (02 41 19 13-0312)		
02 41 19 13-0346 SF 2" Thick Limestone Cutouts, <24 SF	51.62	
02 41 19 13-0347 SF 4" Thick Limestone Cutouts, <24 SF	62.68	
02 41 19 13-0348 SF 6" Thick Limestone Cutouts, <24 SF	66.36	
02 41 19 13-0349 SF 8" Thick Limestone Cutouts, <24 SF	70.05	
02 41 19 13-0350 SF 10" Thick Limestone Cutouts, <24 SF	73.74	
02 41 19 13-0351 SF 12" Thick Limestone Cutouts, <24 SF	77.43	
02 41 19 13-0352 Toothing Masonry Cutouts (02 41 19 13-0312)		
Note: For use where existing masonry must be removed in a toothing pattern along horizontal and vertical mortar joints. VLF measurement includes all horizontal cutting.		
02 41 19 13-0353 VLF Brick, Soft Old Mortar, Toothing Masonry Cutouts	18.43	
02 41 19 13-0354 VLF Brick, Hard Mortar, Toothing Masonry Cutouts	24.89	
02 41 19 13-0355 VLF Concrete Block, Soft Old Mortar, Toothing Masonry Cutouts	11.06	
02 41 19 13-0356 VLF Concrete Block, Hard Mortar, Toothing Masonry Cutouts	14.75	



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

02 41 19 13-0357	Minimum Charge For Cutouts <small>(02 41 19 13-0312)</small>		
	Note: For projects where the total cutouts charge is less than the minimum charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
02 41 19 13-0358	EA Cutouts Minimum Charge		368.70
02 41 19 13-0359	Exterior Masonry Removal <small>(02 41 19 13)</small>		
02 41 19 13-0360	Masonry Columns Removal (Interior And Exterior) <small>(02 41 19 13-0359)</small>		
02 41 19 13-0361	VLF 8" x 8" Masonry Column Removal	14.19	
02 41 19 13-0362	VLF 10" x 10" Masonry Column Removal	22.18	
02 41 19 13-0363	VLF 12" x 12" Masonry Column Removal	28.41	
02 41 19 13-0364	VLF 14" x 14" Masonry Column Removal	35.57	
02 41 19 13-0365	VLF 16" x 16" Masonry Column Removal	43.69	
02 41 19 13-0366	CF Masonry Column Removal, Per CF Of Masonry Removed; For Other Sizes Over 16" Square	24.54	
02 41 19 13-0367	Masonry Chimney Removal <small>(02 41 19 13-0359)</small>		
02 41 19 13-0368	CF Up To 3 CF/VLF Chimney Removal, Per CF Of Masonry Removed	28.78	
02 41 19 13-0369	CF >3 To 10 CF/VLF Chimney Removal, Per CF Of Masonry Removed	21.60	
02 41 19 13-0370	CF >10 To 20 CF/VLF Chimney Removal, Per CF Of Masonry Removed	16.54	
02 41 19 13-0371	CF >20 CF/VLF Chimney Removal, Per CF Of Masonry Removed	11.46	
02 41 19 13-0372	Remove And Reset Precast, Stone Or Masonry Coping <small>(02 41 19 13-0359)</small>		
	Note: Includes removing, cleaning, and resetting coping with new ties and mortar. Excludes finished edge saw cutting at the intersection between demolition and undisturbed areas. See CSI section 02 41 19 13-0001 for saw cutting.		
02 41 19 13-0373	LF Up To 8" Wide, Remove And Reset Precast, Stone Or Masonry Coping	20.64	
02 41 19 13-0374	LF >8" To 12" Wide, Remove And Reset Precast, Stone Or Masonry Coping	30.61	
02 41 19 13-0375	LF >12" To 24" Wide, Remove And Reset Precast, Stone Or Masonry Coping	58.01	
02 41 19 13-0376	Facade Removal <small>(02 41 19 13-0359)</small>		
	Note: Includes any saw cutting that may be required for size reduction into manageable pieces for handling and disposal. Excludes finished edge saw cutting at the intersection between demolition and undisturbed areas. See CSI section 02 41 19 13-0001 for saw cutting.		
02 41 19 13-0377	SF Stone Or Brick Veneer Facade Removal	5.40	
	<i>For Cleaning and Storage For Reuse, Add</i>		8.10
02 41 19 13-0378	Exterior Masonry Removal <small>(02 41 19 13-0359)</small>		
	Note: Includes any saw cutting that may be required for size reduction into manageable pieces for handling and disposal. Salvage modifier includes removing mortar, scraping, cleaning, placement on pallets and storage on site. Excludes finished edge saw cutting at the intersection between demolition and undisturbed areas. See CSI section 02 41 19 13-0001 for saw cutting.		
02 41 19 13-0379	SF Demolish 4" Thick Non-Reinforced Concrete Block Exterior Wall	4.75	
02 41 19 13-0380	SF Demolish 6" Thick Non-Reinforced Concrete Block Exterior Wall	5.36	
02 41 19 13-0381	SF Demolish 8" Thick Non-Reinforced Concrete Block Exterior Wall	6.48	
02 41 19 13-0382	SF Demolish 10" Thick Non-Reinforced Concrete Block Exterior Wall	7.09	
02 41 19 13-0383	SF Demolish 12" Thick Non-Reinforced Concrete Block Exterior Wall	7.78	
02 41 19 13-0384	SF Demolish 16" Thick Non-Reinforced Concrete Block Exterior Wall	9.73	
02 41 19 13-0385	SF Demolish 4" Thick Reinforced Concrete Block Exterior Wall	5.61	
02 41 19 13-0386	SF Demolish 6" Thick Reinforced Concrete Block Exterior Wall	6.43	
02 41 19 13-0387	SF Demolish 8" Thick Reinforced Concrete Block Exterior Wall	7.78	
02 41 19 13-0388	SF Demolish 10" Thick Reinforced Concrete Block Exterior Wall	8.50	
02 41 19 13-0389	SF Demolish 12" Thick Reinforced Concrete Block Exterior Wall	9.34	
02 41 19 13-0390	SF Demolish 16" Thick Reinforced Concrete Block Exterior Wall	11.68	
02 41 19 13-0391	SF Demolish 4" Thick Brick Exterior Wall	4.75	
	<i>For Cleaning and Storage For Reuse, Add</i>		7.13
02 41 19 13-0392	SF Demolish 6" Thick Brick Exterior Wall	5.36	
	<i>For Cleaning and Storage For Reuse, Add</i>		8.04
02 41 19 13-0393	SF Demolish 8" Thick Brick Exterior Wall	6.48	
	<i>For Cleaning and Storage For Reuse, Add</i>		9.72
02 41 19 13-0394	SF Demolish 10" Thick Brick Exterior Wall	7.09	
	<i>For Cleaning and Storage For Reuse, Add</i>		10.64
02 41 19 13-0395	SF Demolish 12" Thick Brick Exterior Wall	7.78	
	<i>For Cleaning and Storage For Reuse, Add</i>		11.67
02 41 19 13-0396	SF Demolish 16" Thick Brick Exterior Wall	9.73	
	<i>For Cleaning and Storage For Reuse, Add</i>		14.60
02 41 19 13-0397	CF Exterior Brick, Concrete Block Or Composite Removal	13.83	
	<i>For Cleaning and Storage For Reuse, Add</i>		20.75
02 41 19 13-0398	Lintel Removal <small>(02 41 19 13-0359)</small>		
	Note: Includes any saw cutting that may be required for size reduction into manageable pieces for handling and disposal. Excludes finished edge saw cutting at the intersection between demolition and undisturbed areas. See CSI section 02 41 19 13-0001 for saw cutting.		
02 41 19 13-0399	LF Demolish Steel Lintel	13.71	
02 41 19 13-0400	LF Demolish Concrete Or Stone Lintel	18.28	
02 41 19 13-0401	LF Demolish Steel Shelf Angle	14.47	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0402				Reinstall Lintel (02 41 19 13-0359) Note: Excludes finished edge saw cutting at the intersection between demolition and undisturbed areas. See CSI section 02 41 19 13-0001 for saw cutting.		
	02 41 19 13-0403	LF		Clean, Prime And Paint Steel Shelf Angle Or Lintel.....	8.58	
	02 41 19 13-0404	LF		Reinstall Existing Concrete Or Stone Lintel.....	18.28	
	02 41 19 13-0405	LF		Reinstall Existing Steel Shelf Angle..... Note: Includes fasteners.	51.99	
	02 41 19 13-0406	LF		Reinstall Existing Steel Lintel.....	20.31	
	02 41 19 13-0407	LF		Removal And Replacement Of Steel Shelf Angle Over Window Openings At Cavity Walls.....	87.56	
	02 41 19 13-0408	LF		Removal And Replacement Of Steel Lintel Over Window Openings.....	167.53	
02 41 19 13-0409				Exterior Concrete Wall Removal (02 41 19 13)		
	02 41 19 13-0410	SF		Demolish 4" Thick Reinforced Concrete Exterior Wall.....	6.50	
	02 41 19 13-0411	SF		Demolish 6" Thick Reinforced Concrete Exterior Wall.....	11.79	
	02 41 19 13-0412	SF		Demolish 8" Thick Reinforced Concrete Exterior Wall.....	14.81	
	02 41 19 13-0413	SF		Demolish 10" Thick Reinforced Concrete Exterior Wall.....	17.47	
	02 41 19 13-0414	SF		Demolish 12" Thick Reinforced Concrete Exterior Wall.....	20.66	
02 41 19 13-0415				Elevated Concrete Removal (02 41 19 13)		
	02 41 19 13-0416	CF		Elevated Concrete Beam/Slab/Steps Removal, Reinforced.....	12.35	
02 41 19 16				Selective Interior Demolition (02 41 19) Note: Includes break-up of material, loading into truck or dumpster and clean-up.		
02 41 19 16-0001				Floor Removal (02 41 19 16)		
02 41 19 16-0002				Scarify Concrete (02 41 19 16-0001) Note: Up to 1/4" removal per pass.		
	02 41 19 16-0003	SF		Scarify Concrete Floor.....	0.31	
	02 41 19 16-0004	SF		Scarify Concrete Tread And Riser.....	2.58	
	02 41 19 16-0005	SF		Scarify Concrete Wall.....	2.34	
02 41 19 16-0006				Fireproofing Removal (02 41 19 16)		
	02 41 19 16-0007	SF		Removal Of Fireproofing From Concrete Or Steel.....	1.20	
02 41 19 16-0008				Demolish Ceiling (02 41 19 16)		
	02 41 19 16-0009	SF		Demolish Drywall Ceiling.....	0.92	
	02 41 19 16-0010	SF		Demolish Furred Plastered Ceiling.....	2.16	
	02 41 19 16-0011	SF		Demolish Suspended Plastered Ceiling And Suspension System.....	1.66	
02 41 19 16-0012				Demolish Concrete Stair (02 41 19 16)		
	02 41 19 16-0013	CF		Demolish Interior Reinforced Concrete Stairs.....	7.78	
	02 41 19 16-0014	CF		Demolish Exterior Reinforced Concrete Stairs.....	6.78	
02 41 19 16-0015				Demolish Interior Partition/Wall (02 41 19 16) Note: Price includes knock down, loading, clean-up.		
02 41 19 16-0016				Demolish Masonry And Concrete Interior Partition/Walls (02 41 19 16-0015) Note: Includes saw cutting, knock down, loading and clean-up.		
02 41 19 16-0017				Demolish Concrete Block Interior Partition/Walls (02 41 19 16-0016)		
	02 41 19 16-0018	SF		Demolish 4" Thick Non-Reinforced Concrete Block Interior Partition/Wall.....	5.04	
	02 41 19 16-0019	SF		Demolish 6" Thick Non-Reinforced Concrete Block Interior Partition/Wall.....	5.38	
	02 41 19 16-0020	SF		Demolish 8" Thick Non-Reinforced Concrete Block Interior Partition/Wall.....	6.07	
	02 41 19 16-0021	SF		Demolish 12" Thick Non-Reinforced Concrete Block Interior Partition/Wall.....	7.78	
	02 41 19 16-0022	SF		Demolish 16" Thick Non-Reinforced Concrete Block Interior Partition/Wall.....	9.74	
	02 41 19 16-0023	SF		Demolish 4" Thick Reinforced Concrete Block Interior Partition/Wall.....	6.05	
	02 41 19 16-0024	SF		Demolish 6" Thick Reinforced Concrete Block Interior Partition/Wall.....	6.46	
	02 41 19 16-0025	SF		Demolish 8" Thick Reinforced Concrete Block Interior Partition/Wall.....	7.28	
	02 41 19 16-0026	SF		Demolish 12" Thick Reinforced Concrete Block Interior Partition/Wall.....	9.35	
	02 41 19 16-0027	SF		Demolish 16" Thick Reinforced Concrete Block Interior Partition/Wall.....	11.68	
02 41 19 16-0028				Demolish Brick Interior Partition/Walls (02 41 19 16-0016)		
	02 41 19 16-0029	SF		Demolish 4" Thick Brick Interior Partition/Wall.....	5.04	
	02 41 19 16-0030	SF		Demolish 8" Thick Brick Interior Partition/Wall.....	6.07	
	02 41 19 16-0031	SF		Demolish 12" Thick Brick Interior Partition/Wall.....	7.77	
	02 41 19 16-0032	SF		Demolish 16" Thick Brick Interior Partition/Wall.....	9.73	
02 41 19 16-0033				Demolish Glass Block Interior Partition/Walls (02 41 19 16-0016)		
	02 41 19 16-0034	SF		Demolish Glass Block Interior Partition/Walls.....	4.32	

02 Existing Conditions**02 40 Demolition and Structure Moving****02 41 Demolition**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

02 41 19 16-0035	Demolish Concrete Interior Partition/Walls (02 41 19 16-0016) See CSI section 02 41 16 13-0021 for concrete foundation demolition.	
02 41 19 16-0036	SF Demolish 6" Thick Non-Reinforced Concrete Interior Partition/Wall	9.16
02 41 19 16-0037	SF Demolish 8" Thick Non-Reinforced Concrete Interior Partition/Wall	11.46
02 41 19 16-0038	SF Demolish 12" Thick Non-Reinforced Concrete Interior Partition/Wall	16.03
02 41 19 16-0039	SF Demolish 6" Thick Reinforced Concrete Interior Partition/Wall	10.99
02 41 19 16-0040	SF Demolish 8" Thick Reinforced Concrete Interior Partition/Wall	13.83
02 41 19 16-0041	SF Demolish 12" Thick Reinforced Concrete Interior Partition/Wall	19.24
02 41 19 16-0042	Demolish Terra-Cotta Block Interior Partition/Walls (02 41 19 16-0016)	
02 41 19 16-0043	SF Demolish Up To 6" Thick Terra-Cotta Block Interior Partition/Wall Finished With Plaster	1.73
02 41 19 16-0044	Demolish Stud Framed Interior Partition/Walls (02 41 19 16-0015) Note: Includes knock down, loading and clean-up. Includes demo of insulation if required.	
02 41 19 16-0045	SF Demolish Wood Or Metal Framed Interior Partition/Wall With Drywall 1 Side	3.05
	For Heights >14' To 20', Add	0.46
	For Heights >20', Add	0.61
02 41 19 16-0046	SF Demolish Wood Or Metal Framed Interior Partition/Wall With Drywall 2 Sides.....	3.57
	For Heights >14' To 20', Add	0.54
	For Heights >20', Add	0.71
02 41 19 16-0047	SF Demolish Wood Or Metal Framed Interior Partition/Wall With Plaster And Lath 1 Side.....	3.90
	For Heights >14' To 20', Add	0.59
	For Heights >20', Add	0.78
02 41 19 16-0048	SF Demolish Wood Or Metal Framed Interior Partition/Wall With Plaster And Lath 2 Sides.....	5.42
	For Heights >14' To 20', Add	0.81
	For Heights >20', Add	1.08
02 41 19 16-0049	SF Demolish Plaster And Lath From 1 Side Of An Interior Partition/Wall.....	1.61
	For Heights >14' To 20', Add	0.24
	For Heights >20', Add	0.32
02 41 19 16-0050	SF Demolish Plaster And Lath From 2 Sides Of An Interior Partition/Wall.....	1.92
	For Heights >14' To 20', Add	0.29
	For Heights >20', Add	0.38

02 42 Removal and Salvage of Construction Materials (02 40)**02 42 21 Salvage of Construction Materials** (02 42)

Note: Includes placement on pallets and storage on site.

02 42 21 35 Roofing Salvage (02 42 21)**02 42 21 35-0001 Clay Tile Roofing Remove And Salvage For Re-use** (02 42 21 35)

Note: Includes removing mortar, scraping, cleaning, placement on pallets and storage on site.

02 42 21 35-0002	SQ Removal Of Clay Roof Tile, Salvage For Re-use.....	280.96
------------------	---	--------

02 42 21 47 Flooring Salvage (02 42 21)**02 42 21 47-0001 Flooring Remove And Salvage For Re-Use** (02 42 21 47)

Note: Includes removing mortar, scraping, cleaning, placement on pallets and storage on site.

02 42 21 47-0002	SF Removal Of Brick Flooring And Salvage.....	2.56
02 42 21 47-0003	SF Removal Of Ceramic/Quarry Tile Floor And Salvage	2.56
02 42 21 47-0004	SF Removal Of Terrazzo Flooring And Salvage.....	3.53
02 42 21 47-0005	SF Removal Of Wood Strip Flooring And Salvage.....	2.07
02 42 21 47-0006	SF Removal Of Wood Parquet Flooring And Salvage.....	1.09
02 42 21 47-0007	SF Removal Of Resilient/Linoleum Flooring And Salvage	0.78

02 43 Structure Moving (02 40)**02 43 13 Structure Relocation** (02 43)

Note: Includes disconnection of utilities, moving of structure, one day move (excludes travel expenses and lodging), up to 24' wide. Reset on new foundations and hook up to utilities.

02 43 13 13 Building Relocation (02 43 13)**02 43 13 13-0001 Move Relocatable Structures (Trailer, Mobile Facilities, etc.), Complete** (02 43 13)

Note: Includes disconnect portable from foundation, separate relocatable unit and attachments as needed for transport, secure all relocatable attachments (awnings, steps, ramps, railing, etc.) for transport, transport relocatable and attachments to new location, including permits and police escort, connect to foundation per approved specifications/details, including welding and/or hurricane anchoring as needed.

02 43 13 13-0002	SF Up To 800 SF, Move Relocatable Metal Frame Building	35.90
02 43 13 13-0003	SF >800 To 920 SF, Move Relocatable Metal Frame Building.....	33.94
02 43 13 13-0004	SF >920 SF, Move Relocatable Metal Frame Building.....	31.76
02 43 13 13-0005	SF Up To 800 SF, Move Relocatable Wood Frame Building.....	28.81
02 43 13 13-0006	SF >800 To 920 SF, Move Relocatable Wood Frame Building.....	26.93
02 43 13 13-0007	SF >920 SF, Move Relocatable Wood Frame Building	23.82
02 43 13 13-0008	SF Up To 800 SF, Move Relocatable Wood/Metal Frame Building.....	34.89
02 43 13 13-0009	SF >800 To 920 SF, Move Relocatable Wood/Metal Frame Building	31.76
02 43 13 13-0010	SF >920 SF, Move Relocatable Wood/Metal Frame Building	26.93



Existing Conditions	02	02
Demolition and Structure Moving	02 40	
Structure Moving	02 43	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
------------------------------	---------------------------	-------------------------

02 60 Contaminated Site Material Removal (02)

02 61 Removal and Disposal of Contaminated Soils (02 60)

02 61 26 Removal and Disposal of Asbestos Contaminated Soils (02 61)

Note: Includes materials, equipment, mobilization, preparation, signage, removal, transportation for up to 25 miles, disposal of waste at transfer facility or final destination, personnel health monitoring, negative air, documentation and other associated costs necessary for the complete abatement and disposal of the ACM in accordance with EPA, OSHA, and local regulations. Where types of ACM are listed by quantity, the quantity of the entire project, not a particular work area, is to be used in determining which task applies. For certain types of work, there is a task with a unit of measure of CF for a quantity of less than 10 CF, followed by a series of tasks for other quantities. For those tasks the contractor will be paid the first task with a unit of measure of EA, plus an additional task to arrive at the appropriate quantity for the project.

02 61 26 00-0001 Removal and Disposal of Asbestos Contaminated Soils (02 61 26)

Note: Includes materials, equipment, mobilization, preparation, signage, removal, transportation for up to 25 miles, disposal of waste at transfer facility or final destination, personnel health monitoring, negative air, documentation and other associated costs necessary for the complete abatement and disposal of the ACM in accordance with EPA, OSHA, and local regulations. Where types of ACM are listed by quantity, the quantity of the entire project, not a particular work area, is to be used in determining which task applies. For certain types of work, there is a task with a unit of measure of CF for a quantity of less than 10 CF, followed by a series of tasks for other quantities. For those tasks the contractor will be paid the first task with a unit of measure of EA, plus an additional task to arrive at the appropriate quantity for the project.

02 61 26 00-0002	EA	Up To 10 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal	1,118.47
		<i>For Work In Restricted Working Space, Add</i>	335.54
02 61 26 00-0003	CF	>10 To 100 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal	74.14
		<i>For Work In Restricted Working Space, Add</i>	22.24
02 61 26 00-0004	CF	>100 To 250 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal	49.43
		<i>For Work In Restricted Working Space, Add</i>	14.83
02 61 26 00-0005	CF	>250 To 500 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal	37.13
		<i>For Work In Restricted Working Space, Add</i>	11.14
02 61 26 00-0006	CF	>500 To 2,500 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal	29.66
		<i>For Work In Restricted Working Space, Add</i>	8.90
02 61 26 00-0007	CF	>2,500 To 10,000 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal	25.21
		<i>For Work In Restricted Working Space, Add</i>	7.56
02 61 26 00-0008	CF	>10,000 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal	22.68
		<i>For Work In Restricted Working Space, Add</i>	6.80

02 80 Facility Remediation (02)

02 81 Transportation and Disposal of Hazardous Materials (02 80)

02 81 00 00-0001 Equipment Oil Drain And Disposal (02 81)

02 81 00 00-0002	TRIP	Drain Oil Filled Equipment, Place In Approved Container And Transport To Disposal Site	653.45
		Note: Excludes Disposal Cost.	
02 81 00 00-0003	DRM	Disposal Of Non-Polychlorinated Biphenyl (PCB) Oil In Normal Landfill, Per Partial Or Full 55-Gallon Drum	102.68
		Note: Excludes draining, placing in approved container, and transporting to disposal site.	
02 81 00 00-0004	DRM	Disposal Of Non-Toxic Polychlorinated Biphenyl (PCB) Oil Into A Lined Landfill, Per Partial Or Full 55-Gallon Drum	466.75
		Note: Excludes draining, placing in approved container, and transporting to disposal site.	
02 81 00 00-0005	DRM	Disposal Of Toxic Polychlorinated Biphenyl (PCB) Oil By Incineration, Per Partial Or Full 55-Gallon Drum	840.15
		Note: Excludes draining, placing in approved container, and transporting to disposal site.	
02 81 00 00-0006	CF	Hazardous Polychlorinated Biphenyl (PCB) Oil Filled Equipment Disposal At Approved Site	112.07
		Note: Includes handling of equipment and disposal at approved site. Excludes draining of PCB contaminated oil prior to disposal.	

02 82 Asbestos Remediation (02 80)

See CSI section 01 56 16 00-0031 for temporary stud walls, 01 74 19 00-0039 for hauling in excess of 25 miles to transfer or disposal site, 02 89 00 00-0008 for plastic sheeting for containment construction, 02 89 00 00-0015 for decontamination chambers.

02 82 13 Asbestos Abatement (02 82)

02 82 13 00-0001 Air Monitoring And Bulk Sampling, Asbestos Testing (02 82 13)

Note: Includes packaging of sample for shipping, shipping to testing lab, chain of custody documentation, analysis of sample, lab report, and sample disposal. Polarizing Light Microscope (PLM), Phase Contrast Microscope (PCM), and Transmission Electron Microscope (TEM). Excludes sampling time.

02 82 13 00-0002	HR	Certified Asbestos Air Sampling Technician For Bulk Sampling Or Air Monitoring	89.94
02 82 13 00-0003	EA	48 Hours Or Longer Turnaround, (Bulk Point Counting) PLM Test, Asbestos Testing	60.79
02 82 13 00-0004	EA	Next Day Turnaround, (Bulk Point Counting) PLM Test, Asbestos Testing	71.27
02 82 13 00-0005	EA	Same Day Turnaround, (Bulk Point Counting) PLM Test, Asbestos Testing	113.20
02 82 13 00-0006	EA	48 Hours Or Longer Turnaround, (Bulk) TEM Test, Asbestos Testing	194.96
02 82 13 00-0007	EA	Next Day Turnaround, (Bulk) TEM Test, Asbestos Testing	236.88
02 82 13 00-0008	EA	48 Hours Or Longer Turnaround, (Air) PCM Test, Asbestos Testing	48.21
02 82 13 00-0009	EA	Next Day Turnaround, (Air) PCM Test, Asbestos Testing	58.70
02 82 13 00-0010	EA	Same Day Turnaround, (Air) PCM Test, Asbestos Testing	79.66
02 82 13 00-0011	EA	48 Hours Or Longer Turnaround, (Air Point Counting) PLM Test	60.79
02 82 13 00-0012	EA	Next Day Turnaround, (Air Point Counting) PLM Test	71.27
02 82 13 00-0013	EA	Same Day Turnaround, (Air Point Counting) PLM Test	113.20
02 82 13 00-0014	EA	48 Hours Or Longer Turnaround, (Air) TEM Test, Asbestos Testing	194.96
02 82 13 00-0015	EA	Next Day Turnaround, (Air) TEM Test, Asbestos Testing	224.30
02 82 13 00-0016	EA	Same Day Turnaround, (Air) TEM Test, Asbestos Testing	312.35

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

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

02 82 16 Engineering Control of Asbestos Containing Materials (02 82)**02 82 16 00-0001 Asbestos Encapsulation (Lock-Down) (02 82 16)**

02 82 16 00-0002	SF	Asbestos Encapsulant Spray Adhesive (Lock-Down), Per Coat.....	1.61
02 82 16 00-0003	SF	Asbestos Binding Compound Encapsulant/Sealant, Per Coat Required (Fiberlock® ABC® Asbestos Binding Compound).....	2.21
02 82 16 00-0004	SF	Asbestos Fiberspray Encapsulation (Fiberlock® ABC Fiberspray®).....	2.42
02 82 16 00-0005	SF	Asbestos Acrylic Encasement/Encapsulation (Fiberlock® Lag-Kote®).....	2.60
02 82 16 00-0006	SF	Water Activated Repair Cloth Encapsulant (Fiberlock® Lag-Kwik®).....	8.16
02 82 16 00-0007	SF	Water Activated Repair Cloth Encapsulant (Fiberlock® Lag-Kloth®).....	9.27

02 82 33 Removal and Disposal of Asbestos Containing Materials (02 82)

Note: Includes materials, equipment, mobilization, preparation, critical barriers (e.g. electrical outlets, registers, windows, etc.), signage, removal, lockdown encapsulant applied to surfaces, bagging, clean-up, vacuuming, transportation for up to 25 miles, disposal of waste at transfer facility or final destination, personnel health monitoring, negative air, documentation and other associated costs necessary for the complete abatement and disposal of the ACM in accordance with EPA, OSHA, and local regulations. Where types of ACM are listed by quantity, the quantity of the entire project, not a particular work area, is to be used in determining which task applies. For certain types of work, there is a task with a unit of measure of SET for a quantity of less than 10 LF or SF (10 LF to 20 LF for ACM pipe insulation), followed by a series of tasks for other quantities. For those tasks the contractor will be paid the first task with a unit of measure of EA, plus an additional task to arrive at the appropriate quantity for the project.

02 82 33 00-0001 Pipe And Pipe Fittings Insulation, Asbestos Abatement And Disposal (02 82 33)**02 82 33 00-0002 Pipe Insulation, Asbestos Abatement And Disposal (02 82 33 00-0001)**

Note: Diameter is outer size of insulation. Treat fittings as additional linear feet of insulation.

02 82 33 00-0003 Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal (02 82 33 00-0002)

See CSI section 02 82 33 00-0031 for projects with less than 10 LF.

02 82 33 00-0004	SET	Up To 20 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	1,162.38
		<i>For Work In Restricted Working Space, Add</i>	335.54
02 82 33 00-0005	LF	>20 To 250 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	40.33
		<i>For Work In Restricted Working Space, Add</i>	11.44
02 82 33 00-0006	LF	>250 To 500 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	30.79
		<i>For Work In Restricted Working Space, Add</i>	8.58
02 82 33 00-0007	LF	>500 To 2,500 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	23.65
		<i>For Work In Restricted Working Space, Add</i>	6.44
02 82 33 00-0008	LF	>2,500 To 10,000 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	18.29
		<i>For Work In Restricted Working Space, Add</i>	4.83
02 82 33 00-0009	LF	>10,000 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	16.19
		<i>For Work In Restricted Working Space, Add</i>	4.20

02 82 33 00-0010 >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal (02 82 33 00-0002)

See CSI section 02 82 33 00-0031 for projects with less than 10 LF.

02 82 33 00-0011	SET	Up To 20 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	1,206.29
		<i>For Work In Restricted Working Space, Add</i>	335.54
02 82 33 00-0012	LF	>20 To 250 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	48.24
		<i>For Work In Restricted Working Space, Add</i>	13.16
02 82 33 00-0013	LF	>250 To 500 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	37.27
		<i>For Work In Restricted Working Space, Add</i>	9.86
02 82 33 00-0014	LF	>500 To 2,500 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	29.06
		<i>For Work In Restricted Working Space, Add</i>	7.40
02 82 33 00-0015	LF	>2,500 To 10,000 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	22.89
		<i>For Work In Restricted Working Space, Add</i>	5.55
02 82 33 00-0016	LF	>10,000 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	20.48
		<i>For Work In Restricted Working Space, Add</i>	4.83

02 82 33 00-0017 >12" To 18" Diameter Pipe Insulation, Asbestos Abatement And Disposal (02 82 33 00-0002)

See CSI section 02 82 33 00-0031 for projects with less than 10 LF.

02 82 33 00-0018	SET	Up To 20 LF, >12" To 18" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	1,250.20
		<i>For Work In Restricted Working Space, Add</i>	335.54
02 82 33 00-0019	LF	>20 To 250 LF, >12" To 18" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	64.31
		<i>For Work In Restricted Working Space, Add</i>	17.54
02 82 33 00-0020	LF	>250 To 500 LF, >12" To 18" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	49.69
		<i>For Work In Restricted Working Space, Add</i>	13.15
02 82 33 00-0021	LF	>500 To 2,500 LF, >12" To 18" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	38.73
		<i>For Work In Restricted Working Space, Add</i>	9.86
02 82 33 00-0022	LF	>2,500 To 10,000 LF, >12" To 18" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	30.51
		<i>For Work In Restricted Working Space, Add</i>	7.40
02 82 33 00-0023	LF	>10,000 LF, >12" To 18" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	27.29
		<i>For Work In Restricted Working Space, Add</i>	6.43

02 82 33 00-0024 >18" To 24" Diameter Pipe Insulation, Asbestos Abatement And Disposal (02 82 33 00-0002)

See CSI section 02 82 33 00-0031 for projects with less than 10 LF.

02 82 33 00-0025	SET	Up To 20 LF, >18" To 24" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	1,294.11
		<i>For Work In Restricted Working Space, Add</i>	335.54



Existing Conditions	02
Facility Remediation	02 80
Asbestos Remediation	02 82

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 82 33 00-0026 LF >20 To 250 LF, >18" To 24" Diameter Pipe Insulation, Asbestos Abatement And Disposal..... <i>For Work In Restricted Working Space, Add</i>	88.45 24.12	
02 82 33 00-0027 LF >250 To 500 LF, >18" To 24" Diameter Pipe Insulation, Asbestos Abatement And Disposal..... <i>For Work In Restricted Working Space, Add</i>	68.33 18.08	
02 82 33 00-0028 LF >500 To 2,500 LF, >18" To 24" Diameter Pipe Insulation, Asbestos Abatement And Disposal..... <i>For Work In Restricted Working Space, Add</i>	53.27 13.57	
02 82 33 00-0029 LF >2,500 To 10,000 LF, >18" To 24" Diameter Pipe Insulation, Asbestos Abatement And Disposal..... <i>For Work In Restricted Working Space, Add</i>	41.94 10.17	
02 82 33 00-0030 LF >10,000 LF, >18" To 24" Diameter Pipe Insulation, Asbestos Abatement And Disposal..... <i>For Work In Restricted Working Space, Add</i>	37.54 8.85	
02 82 33 00-0031 Glove Bag Method, Pipe Insulation, Asbestos Abatement And Disposal (02 82 33 00-0002) Note: Solid isolation barriers and plastic sheeting for containment construction (except on floor) are not required for glove bag projects unless required by local codes.		
02 82 33 00-0032 SET Glove Bag For First 3 LF Pipe Insulation, Asbestos Abatement And Disposal..... <i>For Work In Restricted Working Space, Add</i>	732.68 215.85	
02 82 33 00-0033 LF >3 To 20 LF Additional Glove Bag Work For Pipe Insulation..... <i>For Work In Restricted Working Space, Add</i>	124.31 35.98	
02 82 33 00-0034 LF >20 To 250 LF Additional Glove Bag Work For Pipe Insulation..... <i>For Work In Restricted Working Space, Add</i>	90.94 13.97	
02 82 33 00-0035 LF >250 To 500 LF Additional Glove Bag Work For Pipe Insulation..... <i>For Work In Restricted Working Space, Add</i>	39.30 10.47	
02 82 33 00-0036 LF >500 LF Additional Glove Bag Work For Pipe Insulation..... <i>For Work In Restricted Working Space, Add</i>	30.57 7.85	
02 82 33 00-0037 Thermal Insulation, Asbestos Abatement And Disposal (02 82 33)		
02 82 33 00-0038 Calcium Block Insulation, Asbestos Abatement And Disposal (02 82 33 00-0037)		
02 82 33 00-0039 SET Up To 10 SF, Calcium Block Insulation, Asbestos Abatement And Disposal.....	1,140.42	
02 82 33 00-0040 SF >10 To 500 SF, Calcium Block Insulation, Asbestos Abatement And Disposal.....	47.77	
02 82 33 00-0041 SF >500 To 2,500 SF, Calcium Block Insulation, Asbestos Abatement And Disposal.....	39.67	
02 82 33 00-0042 SF >2,500 To 10,000 SF, Calcium Block Insulation, Asbestos Abatement And Disposal.....	32.16	
02 82 33 00-0043 SF >10,000 SF, Calcium Block Insulation, Asbestos Abatement And Disposal.....	26.52	
02 82 33 00-0044 Fibrous Glass Blanket Insulation, Asbestos Abatement And Disposal (02 82 33 00-0037)		
02 82 33 00-0045 SET Up To 10 SF, Fibrous Glass Blanket Insulation, Asbestos Abatement And Disposal.....	1,129.45	
02 82 33 00-0046 SF >10 To 500 SF, Fibrous Glass Blanket Insulation, Asbestos Abatement And Disposal.....	41.47	
02 82 33 00-0047 SF >500 To 2,500 SF, Fibrous Glass Blanket Insulation, Asbestos Abatement And Disposal.....	33.37	
02 82 33 00-0048 SF >2,500 To 10,000 SF, Fibrous Glass Blanket Insulation, Asbestos Abatement And Disposal.....	25.85	
02 82 33 00-0049 SF >10,000 SF, Fibrous Glass Blanket Insulation, Asbestos Abatement And Disposal.....	20.22	
02 82 33 00-0050 Fibrous Glass Board Insulation, Asbestos Abatement And Disposal (02 82 33 00-0037)		
02 82 33 00-0051 SET Up To 10 SF, Fibrous Glass Board Insulation, Asbestos Abatement And Disposal.....	1,125.79	
02 82 33 00-0052 SF >10 To 500 SF, Fibrous Glass Board Insulation, Asbestos Abatement And Disposal.....	36.62	
02 82 33 00-0053 SF >500 To 2,500 SF, Fibrous Glass Board Insulation, Asbestos Abatement And Disposal.....	28.53	
02 82 33 00-0054 SF >2,500 To 10,000 SF, Fibrous Glass Board Insulation, Asbestos Abatement And Disposal.....	21.01	
02 82 33 00-0055 SF >10,000 SF, Fibrous Glass Board Insulation, Asbestos Abatement And Disposal.....	15.38	
02 82 33 00-0056 Other Thermal Insulation, Up To 3" Thickness, Asbestos Abatement And Disposal (02 82 33 00-0037) Note: e.g., duct, boiler, tank, etc.		
02 82 33 00-0057 SET Up To 25 SF, Up To 3" Thickness Thermal Insulation, Asbestos Abatement And Disposal.....	1,145.91	
02 82 33 00-0058 SF >25 To 500 SF, Up To 3" Thickness Thermal Insulation, Asbestos Abatement And Disposal.....	39.23	
02 82 33 00-0059 SF >500 To 2,500 SF, Up To 3" Thickness Thermal Insulation, Asbestos Abatement And Disposal.....	31.13	
02 82 33 00-0060 SF >2,500 To 10,000 SF, Up To 3" Thickness Thermal Insulation, Asbestos Abatement And Disposal.....	23.62	
02 82 33 00-0061 SF >10,000 SF, Up To 3" Thickness Thermal Insulation, Asbestos Abatement And Disposal.....	17.99	
02 82 33 00-0062 Surfacing Material, Asbestos Abatement And Disposal (02 82 33)		
02 82 33 00-0063 Fireproofing For Small Areas, Asbestos Abatement And Disposal (02 82 33 00-0062) Note: For asbestos abatement for up to 1 SF sections to expose area for attachments. See CSI section 02 82 33 00-0065 for areas > 1 SF see CSI section.		
02 82 33 00-0064 EA Up To 1 SF, Fireproofing For Small Areas, Asbestos Abatement And Disposal..... Note: For asbestos abatement for up to 1 SF sections to expose steel area for welding attachments.	187.51	
02 82 33 00-0065 Fireproofing, Asbestos Abatement And Disposal (02 82 33 00-0062) Note: Exposed surface area, includes associated overspray.		
02 82 33 00-0066 SET Up To 25 SF, Fireproofing, Asbestos Abatement And Disposal.....	1,145.91	
02 82 33 00-0067 SF >25 To 500 SF, Fireproofing, Asbestos Abatement And Disposal.....	46.84	
02 82 33 00-0068 SF >500 To 2,500 SF, Fireproofing, Asbestos Abatement And Disposal.....	35.40	
02 82 33 00-0069 SF >2,500 To 10,000 SF, Fireproofing, Asbestos Abatement And Disposal.....	26.82	
02 82 33 00-0070 SF >10,000 SF, Fireproofing, Asbestos Abatement And Disposal.....	20.39	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 82 33 00-0071 Acoustical Plaster, Asbestos Abatement And Disposal <small>(02 82 33 00-0062)</small>		
Note: Remove surface coat from brown coat or remove entire assembly, including lathe and finish materials.		
02 82 33 00-0072 SET Up To 25 SF, Acoustical Plaster, Asbestos Abatement And Disposal	1,136.77	
02 82 33 00-0073 SF >25 To 500 SF, Acoustical Plaster, Asbestos Abatement And Disposal	19.84	
02 82 33 00-0074 SF >500 To 2,500 SF, Acoustical Plaster, Asbestos Abatement And Disposal	15.18	
02 82 33 00-0075 SF >2,500 To 10,000 SF, Acoustical Plaster, Asbestos Abatement And Disposal	11.45	
02 82 33 00-0076 SF >10,000 SF, Acoustical Plaster, Asbestos Abatement And Disposal	8.65	
02 82 33 00-0077 Gypsum Wall Board, Asbestos Abatement And Disposal <small>(02 82 33 00-0062)</small>		
02 82 33 00-0078 SET Up To 50 SF, Single Layer Gypsum Wall Board, Asbestos Abatement And Disposal	1,155.07	
For Additional Layer, Add	307.58	
02 82 33 00-0079 SF >50 To 500 SF, Single Layer Gypsum Wall Board, Asbestos Abatement And Disposal	15.41	
For Additional Layer, Add	4.04	
02 82 33 00-0080 SF >500 To 2,500 SF, Single Layer Gypsum Wall Board, Asbestos Abatement And Disposal	11.45	
For Additional Layer, Add	2.95	
02 82 33 00-0081 SF >2,500 To 10,000 SF, Single Layer Gypsum Wall Board, Asbestos Abatement And Disposal	9.12	
For Additional Layer, Add	2.31	
02 82 33 00-0082 SF >10,000 To 50,000 SF, Single Layer Gypsum Wall Board, Asbestos Abatement And Disposal	7.26	
For Additional Layer, Add	1.80	
02 82 33 00-0083 SF >50,000 To 100,000 SF, Single Layer Gypsum Wall Board, Asbestos Abatement And Disposal	5.86	
For Additional Layer, Add	1.41	
02 82 33 00-0084 SF >100,000 SF, Single Layer Gypsum Wall Board, Asbestos Abatement And Disposal	4.83	
For Additional Layer, Add	1.13	
02 82 33 00-0085 Gypsum Wall Board (Or Backer Board) With Ceramic Tile And Mastic, Asbestos Abatement And Disposal <small>(02 82 33 00-0062)</small>		
02 82 33 00-0086 SET Up To 25 SF, Gypsum Wall Board (Or Backer Board) With Ceramic Tile And Mastic, Asbestos Abatement And Disposal	1,136.77	
02 82 33 00-0087 SF >25 To 500 SF, Gypsum Wall Board (Or Backer Board) With Ceramic Tile And Mastic, Asbestos Abatement And Disposal	28.60	
02 82 33 00-0088 SF >500 To 2,500 SF, Gypsum Wall Board (Or Backer Board) With Ceramic Tile And Mastic, Asbestos Abatement And Disposal	21.14	
02 82 33 00-0089 SF >2,500 To 10,000 SF, Gypsum Wall Board (Or Backer Board) With Ceramic Tile And Mastic, Asbestos Abatement And Disposal	16.67	
02 82 33 00-0090 SF >10,000 To 50,000 SF, Gypsum Wall Board (Or Backer Board) With Ceramic Tile And Mastic, Asbestos Abatement And Disposal	13.13	
02 82 33 00-0091 SF >50,000 SF, Gypsum Wall Board (Or Backer Board) With Ceramic Tile And Mastic, Asbestos Abatement And Disposal	9.58	
02 82 33 00-0092 Stucco, Asbestos Abatement And Disposal <small>(02 82 33 00-0062)</small>		
02 82 33 00-0093 SET Up To 50 SF, Stucco, Asbestos Abatement And Disposal	1,155.07	
02 82 33 00-0094 SF >50 To 500 SF, Stucco, Asbestos Abatement And Disposal	25.04	
02 82 33 00-0095 SF >500 To 2,500 SF, Stucco, Asbestos Abatement And Disposal	18.95	
02 82 33 00-0096 SF >2,500 To 10,000 SF, Stucco, Asbestos Abatement And Disposal	14.41	
02 82 33 00-0097 SF >10,000 SF, Stucco, Asbestos Abatement And Disposal	10.98	
02 82 33 00-0098 Spray On Acoustical Ceiling, Asbestos Abatement And Disposal <small>(02 82 33 00-0062)</small>		
02 82 33 00-0099 SET Up To 50 SF, Spray On Acoustical Ceiling, Asbestos Abatement And Disposal	1,155.07	
02 82 33 00-0100 SF >50 To 500 SF, Spray On Acoustical Ceiling, Asbestos Abatement And Disposal	13.16	
02 82 33 00-0101 SF >500 To 2,500 SF, Spray On Acoustical Ceiling, Asbestos Abatement And Disposal	10.78	
02 82 33 00-0102 SF >2,500 To 10,000 SF, Spray On Acoustical Ceiling, Asbestos Abatement And Disposal	7.72	
02 82 33 00-0103 SF >10,000 SF, Spray On Acoustical Ceiling, Asbestos Abatement And Disposal	5.97	
02 82 33 00-0104 Plywood, Asbestos Abatement And Disposal <small>(02 82 33 00-0062)</small>		
02 82 33 00-0105 SET Up To 40 SF, Plywood, Asbestos Abatement And Disposal	1,147.75	
02 82 33 00-0106 SF >50 To 500 SF, Plywood, Asbestos Abatement And Disposal	16.58	
02 82 33 00-0107 SF >500 To 2,500 SF, Plywood, Asbestos Abatement And Disposal	8.35	
02 82 33 00-0108 SF >2,500 To 10,000 SF, Plywood, Asbestos Abatement And Disposal	5.88	
02 82 33 00-0109 SF >10,000 SF, Plywood, Asbestos Abatement And Disposal	5.11	
02 82 33 00-0110 Flooring Material, Asbestos Abatement And Disposal <small>(02 82 33)</small>		
02 82 33 00-0111 Floor Tile, Linoleum, Carpet Or Base, Asbestos Abatement And Disposal <small>(02 82 33 00-0110)</small>		
02 82 33 00-0112 Floor Tile, Asbestos Abatement And Disposal <small>(02 82 33 00-0111)</small>		
Note: Single layer or first of multiple layers. Excludes mastic.		
02 82 33 00-0113 SET Up To 100 SF, Single Layer Or First Of Multiple Layers, Floor Tile, Asbestos Abatement And Disposal	1,125.79	
For Each Additional Layer, Add	168.87	
02 82 33 00-0114 SF >100 To 500 SF, Single Layer Or First Of Multiple Layers, Floor Tile, Asbestos Abatement And Disposal	8.35	
For Each Additional Layer, Add	1.25	
02 82 33 00-0115 SF >500 To 2,500 SF, Single Layer Or First Of Multiple Layers, Floor Tile, Asbestos Abatement And Disposal	6.92	
For Each Additional Layer, Add	1.04	
02 82 33 00-0116 SF >2,500 To 10,000 SF, Single Layer Or First Of Multiple Layers, Floor Tile, Asbestos Abatement And Disposal	5.62	
For Each Additional Layer, Add	0.84	



Existing Conditions	02
Facility Remediation	02 80
Asbestos Remediation	02 82

02

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 82 33 00-0117 SF >10,000 SF, Single Layer Or First Of Multiple Layers, Floor Tile, Asbestos Abatement And Disposal..... <i>For Each Additional Layer, Add</i>	4.04 0.61	
02 82 33 00-0118 Linoleum Or Vinyl Sheet, Asbestos Abatement And Disposal (02 82 33 00-0111) Note: Single layer or first of multiple layers. Excludes mastic.		
02 82 33 00-0119 SET Up To 100 SF, Single Layer Or Multiple Layers, Linoleum Or Vinyl Sheet, Asbestos Abatement And Disposal..... <i>For Each Additional Layer, Add</i>	1,125.79 168.87	
02 82 33 00-0120 SF >100 To 500 SF, Single Layer Or Multiple Layers, Linoleum Or Vinyl Sheet, Asbestos Abatement And Disposal..... <i>For Each Additional Layer, Add</i>	8.35 1.25	
02 82 33 00-0121 SF >500 To 2,500 SF, Single Layer Or Multiple Layers, Linoleum Or Vinyl Sheet, Asbestos Abatement And Disposal..... <i>For Each Additional Layer, Add</i>	6.96 1.04	
02 82 33 00-0122 SF >2,500 To 10,000 SF, Single Layer Or Multiple Layers, Linoleum Or Vinyl Sheet, Asbestos Abatement And Disposal..... <i>For Each Additional Layer, Add</i>	6.35 0.95	
02 82 33 00-0123 SF >10,000 SF, Single Layer Or Multiple Layers, Linoleum Or Vinyl Sheet, Asbestos Abatement And Disposal..... <i>For Each Additional Layer, Add</i>	5.23 0.76	
02 82 33 00-0124 Carpet, Asbestos Abatement And Disposal (02 82 33 00-0111)		
02 82 33 00-0125 SET Up To 100 SF, Carpet With Non-Friable Asbestos Mastic, Asbestos Abatement And Disposal.....	1,125.79	
02 82 33 00-0126 SF >100 To 500 SF, Carpet With Non-Friable Asbestos Mastic, Asbestos Abatement And Disposal	6.63	
02 82 33 00-0127 SF >500 To 2,500 SF, Carpet With Non-Friable Asbestos Mastic, Asbestos Abatement And Disposal	5.46	
02 82 33 00-0128 SF >2,500 To 10,000 SF, Carpet With Non-Friable Asbestos Mastic, Asbestos Abatement And Disposal	4.12	
02 82 33 00-0129 SF >10,000 SF, Carpet With Non-Friable Asbestos Mastic, Asbestos Abatement And Disposal.....	3.25	
02 82 33 00-0130 Wall Or Cove Base, Asbestos Abatement And Disposal (02 82 33 00-0111) Note: Up to 12".		
02 82 33 00-0131 SET Up To 25 LF, Wall Base And Mastic, Asbestos Abatement And Disposal.....	381.97	
02 82 33 00-0132 LF >25 To 100 LF, Wall Base And Mastic, Asbestos Abatement And Disposal.....	5.34	
02 82 33 00-0133 LF >100 To 500 LF, Wall Base And Mastic, Asbestos Abatement And Disposal.....	3.35	
02 82 33 00-0134 LF >500 To 2,500 LF, Wall Base And Mastic, Asbestos Abatement And Disposal.....	2.23	
02 82 33 00-0135 LF >2,500 LF, Wall Base And Mastic, Asbestos Abatement And Disposal.....	1.68	
02 82 33 00-0136 Mastic, Asbestos Abatement And Disposal (02 82 33 00-0110) Note: Applies to single layer or bottom layer only of multiple layers. Non-hydrocarbon with pine, citrus or no odor.		
02 82 33 00-0137 SET Up To 100 SF, Mastic, Asbestos Abatement And Disposal	1,136.78	
02 82 33 00-0138 SF >100 To 500 SF, Mastic, Asbestos Abatement And Disposal..... Note: Applies to bottom layer only if multiple layers.	2.97	
02 82 33 00-0139 SF >500 To 2,500 SF, Mastic, Asbestos Abatement And Disposal..... Note: Applies to bottom layer only if multiple layers.	2.22	
02 82 33 00-0140 SF >2,500 To 10,000 SF, Mastic, Asbestos Abatement And Disposal..... Note: Applies to bottom layer only if multiple layers.	1.75	
02 82 33 00-0141 SF >10,000 SF, Mastic, Asbestos Abatement And Disposal..... Note: Applies to bottom layer only if multiple layers.	1.44	
02 82 33 00-0142 Hardwood Flooring System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal (02 82 33 00-0110) Note: Includes finish wood, asbestos barrier paper, cleanup of sub-wood floor, fasteners, wood fillers and protection of clean crawl space from contamination.		
02 82 33 00-0143 SET Up To 100 SF, Hardwood Flooring System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal.....	1,191.67	
02 82 33 00-0144 SF >100 To 500 SF, Hardwood Flooring System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal.....	9.54	
02 82 33 00-0145 SF >500 To 2,500 SF, Hardwood Flooring System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal.....	7.16	
02 82 33 00-0146 SF >2,500 To 10,000 SF, Hardwood Flooring System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal	5.76	
02 82 33 00-0147 SF >10,000 SF, Hardwood Flooring System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal.....	4.64	
02 82 33 00-0148 Cementitious Underlayment For Flooring, Asbestos Abatement And Disposal (02 82 33 00-0110)		
02 82 33 00-0149 SET Up To 100 SF, Cementitious Underlayment For Flooring, Asbestos Abatement And Disposal	1,155.05	
02 82 33 00-0150 SF >100 To 500 SF, Cementitious Underlayment For Flooring, Asbestos Abatement And Disposal.....	10.34	
02 82 33 00-0151 SF >500 To 2,500 SF, Cementitious Underlayment For Flooring, Asbestos Abatement And Disposal..... Note: Includes detachment of mounted objects before removal.	6.90	
02 82 33 00-0152 SF >2,500 To 10,000 SF, Cementitious Underlayment For Flooring, Asbestos Abatement And Disposal.....	5.50	
02 82 33 00-0153 SF >10,000 SF, Cementitious Underlayment For Flooring, Asbestos Abatement And Disposal.....	4.56	
02 82 33 00-0154 Roofing, Asbestos Abatement And Disposal (02 82 33)		
02 82 33 00-0155 Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal (02 82 33 00-0154) Note: Includes roofing, flashing, sheet metal, insulation, pitch pockets, board etc.		

02 Existing Conditions**02 80 Facility Remediation****02 82 Asbestos Remediation**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

02 82 33 00-0156	Up To 2" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal <small>(02 82 33 00-0155)</small>	
02 82 33 00-0157	SET Up To 125 SF, Up To 2" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	1,209.97
02 82 33 00-0158	SF >125 To 1,000 SF, Up To 2" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	7.88
02 82 33 00-0159	SF >1,000 To 5,000 SF, Up To 2" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	6.45
02 82 33 00-0160	SF >5,000 To 10,000 SF, Up To 2" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	5.31
02 82 33 00-0161	SF >10,000 To 20,000 SF, Up To 2" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	4.16
02 82 33 00-0162	SF >20,000 SF, Up To 2" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	3.30
02 82 33 00-0163	>2" To 5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal <small>(02 82 33 00-0155)</small>	
02 82 33 00-0164	SET Up To 110 SF, >2" To 5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	1,279.47
02 82 33 00-0165	SF >110 To 1,000 SF, >2" To 5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	9.61
02 82 33 00-0166	SF >1,000 To 5,000 SF, >2" To 5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	7.94
02 82 33 00-0167	SF >5,000 To 10,000 SF, >2" To 5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	6.69
02 82 33 00-0168	SF >10,000 To 20,000 SF, >2" To 5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	5.37
02 82 33 00-0169	SF >20,000 SF, >2" To 5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	4.38
02 82 33 00-0170	>5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal <small>(02 82 33 00-0155)</small>	
02 82 33 00-0171	SET Up To 110 SF, >5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	1,359.97
02 82 33 00-0172	SF >110 To 1,000 SF, >5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	11.24
02 82 33 00-0173	SF >1,000 To 5,000 SF, >5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	9.40
02 82 33 00-0174	SF >5,000 To 10,000 SF, >5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	8.01
02 82 33 00-0175	SF >10,000 To 20,000 SF, >5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	6.55
02 82 33 00-0176	SF >20,000 SF, >5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	5.46
02 82 33 00-0177	Shingles And Felt Roofing, Asbestos Abatement And Disposal <small>(02 82 33 00-0154)</small>	
02 82 33 00-0178	Shingles And Felt Roofing, Asbestos Abatement And Disposal <small>(02 82 33 00-0177)</small>	
02 82 33 00-0179	SET Up To 125 SF, Shingles And Felt Roofing, Asbestos Abatement And Disposal.....	1,141.34
	Note: Single or first of multiple layers.	
02 82 33 00-0180	SF >125 To 1,000 SF, Shingles And Felt Roofing, Asbestos Abatement And Disposal.....	7.33
	Note: Single or first of multiple layers.	
	For Each Additional Layer, Add	1.47
02 82 33 00-0181	SF >1,000 To 5,000 SF, Shingles And Felt Roofing, Asbestos Abatement And Disposal.....	5.90
	Note: Single or first of multiple layers.	
	For Each Additional Layer, Add	1.18
02 82 33 00-0182	SF >5,000 To 10,000 SF, Shingles And Felt Roofing, Asbestos Abatement And Disposal.....	4.76
	Note: Single or first of multiple layers.	
	For Each Additional Layer, Add	0.95
02 82 33 00-0183	SF >10,000 To 20,000 SF, Shingles And Felt Roofing, Asbestos Abatement And Disposal.....	3.61
	Note: Single or first of multiple layers.	
	For Each Additional Layer, Add	0.72
02 82 33 00-0184	SF >20,000 SF, Shingles And Felt Roofing, Asbestos Abatement And Disposal.....	2.75
	Note: Single or first of multiple layers.	
	For Each Additional Layer, Add	0.55
02 82 33 00-0185	Roof Penetration Mastic, Asbestos Abatement And Disposal <small>(02 82 33 00-0154)</small>	
02 82 33 00-0186	SET Up To 10 SF, Roof Penetration Mastic, Asbestos Abatement And Disposal.....	374.65
02 82 33 00-0187	SF >10 To 50 SF, Roof Penetration Mastic, Asbestos Abatement And Disposal.....	2.98
02 82 33 00-0188	SF >50 To 100 SF, Roof Penetration Mastic, Asbestos Abatement And Disposal.....	2.47
02 82 33 00-0189	SF >100 To 250 SF, Roof Penetration Mastic, Asbestos Abatement And Disposal.....	2.03
02 82 33 00-0190	SF >250 SF, Roof Penetration Mastic, Asbestos Abatement And Disposal.....	1.52
02 82 33 00-0191	Roof Curb Mastic, Asbestos Abatement And Disposal <small>(02 82 33 00-0154)</small>	
02 82 33 00-0192	SET Up To 10 LF, Roof Curb Mastic, Asbestos Abatement And Disposal.....	374.65
02 82 33 00-0193	LF >10 To 20 LF, Roof Curb Mastic, Asbestos Abatement And Disposal.....	8.57
02 82 33 00-0194	LF >20 To 50 LF, Roof Curb Mastic, Asbestos Abatement And Disposal.....	6.89
02 82 33 00-0195	LF >50 To 150 LF, Roof Curb Mastic, Asbestos Abatement And Disposal.....	5.77
02 82 33 00-0196	LF >150 LF, Roof Curb Mastic, Asbestos Abatement And Disposal.....	4.20
02 82 33 00-0197	Asbestos-Cement Products, Asbestos Abatement And Disposal <small>(02 82 33)</small>	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 82 33 00-0198 Interior Asbestos-Cement Board, Asbestos Abatement And Disposal <small>(02 82 33 00-0197)</small>		
<i>Note: Includes detachment of mounted objects before removal.</i>		
02 82 33 00-0199 SET Up To 100 SF, Interior Asbestos-Cement Board, Asbestos Abatement And Disposal	1,155.05	
<i>Note: Includes detachment of mounted objects before removal.</i>		
02 82 33 00-0200 SF >100 To 500 SF, Interior Asbestos-Cement Board, Asbestos Abatement And Disposal	7.99	
<i>Note: Includes detachment of mounted objects before removal.</i>		
02 82 33 00-0201 SF >500 To 2,500 SF, Interior Asbestos-Cement Board, Asbestos Abatement And Disposal	4.19	
<i>Note: Includes detachment of mounted objects before removal.</i>		
02 82 33 00-0202 SF >2,500 To 10,000 SF, Interior Asbestos-Cement Board, Asbestos Abatement And Disposal	3.41	
<i>Note: Includes detachment of mounted objects before removal.</i>		
02 82 33 00-0203 SF >10,000 SF, Interior Asbestos-Cement Board, Asbestos Abatement And Disposal	3.02	
<i>Note: Includes detachment of mounted objects before removal.</i>		
02 82 33 00-0204 Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal <small>(02 82 33 00-0197)</small>		
02 82 33 00-0205 SET Up To 100 SF, Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal	1,155.05	
02 82 33 00-0206 SF >100 To 500 SF, Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal	6.99	
02 82 33 00-0207 SF >500 To 2,500 SF, Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal	3.76	
02 82 33 00-0208 SF >2,500 To 10,000 SF, Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal	3.08	
02 82 33 00-0209 SF >10,000 SF, Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal	2.73	
02 82 33 00-0210 Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal <small>(02 82 33 00-0197)</small>		
02 82 33 00-0211 SET Up To 10 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal	975.96	
02 82 33 00-0212 LF >10 To 100 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal	42.52	
02 82 33 00-0213 LF >100 To 250 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal	32.98	
02 82 33 00-0214 LF >250 To 500 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal	25.84	
02 82 33 00-0215 LF >500 To 2,500 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal	20.48	
02 82 33 00-0216 LF >2,500 To 10,000 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal	16.45	
02 82 33 00-0217 LF >10,000 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal	16.18	
02 82 33 00-0218 Exterior Transite Siding, Asbestos Abatement And Disposal <small>(02 82 33 00-0197)</small>		
02 82 33 00-0219 SET Up To 125 SF, Exterior Transite Siding, Asbestos Abatement And Disposal	1,180.49	
<i>Note: Single or first of multiple layers.</i>		
02 82 33 00-0220 SF >125 To 1,000 SF, Exterior Transite Siding, Asbestos Abatement And Disposal	6.33	
<i>Note: Single or first of multiple layers.</i>		
02 82 33 00-0221 SF >1,000 To 5,000 SF, Exterior Transite Siding, Asbestos Abatement And Disposal	5.13	
<i>Note: Single or first of multiple layers.</i>		
02 82 33 00-0222 SF >5,000 To 10,000 SF, Exterior Transite Siding, Asbestos Abatement And Disposal	4.19	
<i>Note: Single or first of multiple layers.</i>		
02 82 33 00-0223 SF >10,000 To 20,000 SF, Exterior Transite Siding, Asbestos Abatement And Disposal	3.23	
<i>Note: Single or first of multiple layers.</i>		
02 82 33 00-0224 SF >20,000 SF, Exterior Transite Siding, Asbestos Abatement And Disposal	2.52	
<i>Note: Single or first of multiple layers.</i>		
02 82 33 00-0225 Asbestos Contaminated Debris, Asbestos Abatement And Disposal <small>(02 82 33 00-0225)</small>		
02 82 33 00-0226 Asbestos Contaminated Debris, Asbestos Abatement And Disposal <small>(02 82 33 00-0225)</small>		
02 82 33 00-0227 SET Up To 10 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal	789.55	
<i>For Work In Restricted Working Space, Add</i>		
02 82 33 00-0228 CF >10 To 100 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal	78.53	
<i>For Work In Restricted Working Space, Add</i>		
02 82 33 00-0229 CF >100 To 250 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal	53.82	
<i>For Work In Restricted Working Space, Add</i>		
02 82 33 00-0230 CF >250 To 500 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal	41.52	
<i>For Work In Restricted Working Space, Add</i>		
02 82 33 00-0231 CF >500 To 2,500 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal	34.05	
<i>For Work In Restricted Working Space, Add</i>		
02 82 33 00-0232 CF >2,500 To 10,000 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal	29.60	
<i>For Work In Restricted Working Space, Add</i>		
02 82 33 00-0233 CF >10,000 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal	27.07	
<i>For Work In Restricted Working Space, Add</i>		
02 82 33 00-0234 Other Asbestos Containing Materials, Asbestos Abatement And Disposal <small>(02 82 33 00-0234)</small>		
02 82 33 00-0235 30" To 36" Fire Door, Asbestos Abatement And Disposal <small>(02 82 33 00-0234)</small>		
02 82 33 00-0236 SET Up To 1 EA, 30" To 36" Fire Door, Asbestos Abatement And Disposal	392.58	
02 82 33 00-0237 EA >1 To 20 EA, 30" To 36" Fire Door, Asbestos Abatement And Disposal	153.98	
02 82 33 00-0238 EA >20 EA, 30" To 36" Fire Door, Asbestos Abatement And Disposal	140.55	
02 82 33 00-0239 HVAC Duct Flexible Connector (Web Cloth), Asbestos Abatement And Disposal <small>(02 82 33 00-0234)</small>		
02 82 33 00-0240 SET Up To 10 LF, HVAC Duct Flexible Connector (Web Cloth), Asbestos Abatement And Disposal	373.73	
02 82 33 00-0241 LF >10 To 50 LF, HVAC Duct Flexible Connector (Web Cloth), Asbestos Abatement And Disposal	7.71	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	02 82 33 00-0242	LF	>50 To 100 LF, HVAC Duct Flexible Connector (Web Cloth), Asbestos Abatement And Disposal	5.81	
	02 82 33 00-0243	LF	>100 To 250 LF, HVAC Duct Flexible Connector (Web Cloth), Asbestos Abatement And Disposal	5.00	
	02 82 33 00-0244	LF	>250 To 1,000 LF, HVAC Duct Flexible Connector (Web Cloth), Asbestos Abatement And Disposal	4.33	
	02 82 33 00-0245	LF	>1,000 To 2,500 LF, HVAC Duct Flexible Connector (Web Cloth), Asbestos Abatement And Disposal	3.71	
	02 82 33 00-0246	LF	>2,500 LF, HVAC Duct Flexible Connector (Web Cloth), Asbestos Abatement And Disposal	3.22	
	02 82 33 00-0247		Grout, Asbestos Abatement And Disposal (02 82 33 00-0234)		
			Note: e.g. flue grout.		
	02 82 33 00-0248	SET	Up To 10 LF, Grout, Asbestos Abatement And Disposal	373.43	
	02 82 33 00-0249	LF	>10 To 50 LF, Grout, Asbestos Abatement And Disposal	14.74	
	02 82 33 00-0250	LF	>50 To 100 LF, Grout, Asbestos Abatement And Disposal	10.17	
	02 82 33 00-0251	LF	>100 To 250 LF, Grout, Asbestos Abatement And Disposal	8.72	
	02 82 33 00-0252	LF	>250 To 1,000 LF, Grout, Asbestos Abatement And Disposal	7.49	
	02 82 33 00-0253	LF	>1,000 To 2,500 LF, Grout, Asbestos Abatement And Disposal	6.47	
	02 82 33 00-0254	LF	>2,500 LF, Grout, Asbestos Abatement And Disposal.....	5.55	
	02 82 33 00-0255		Gaskets, Asbestos Abatement And Disposal (02 82 33 00-0234)		
			Note: e.g. rope, web cloth, flat.		
	02 82 33 00-0256	SET	Up To 10 LF, Gaskets, Asbestos Abatement And Disposal.....	373.73	
	02 82 33 00-0257	LF	>10 To 50 LF, Gaskets, Asbestos Abatement And Disposal	19.86	
	02 82 33 00-0258	LF	>50 To 250 LF, Gaskets, Asbestos Abatement And Disposal	14.92	
	02 82 33 00-0259	LF	>250 To 500 LF, Gaskets, Asbestos Abatement And Disposal	12.72	
	02 82 33 00-0260	LF	>500 To 1,500 LF, Gaskets, Asbestos Abatement And Disposal	11.46	
	02 82 33 00-0261	LF	>1,500 To 2,500 LF, Gaskets, Asbestos Abatement And Disposal	10.31	
	02 82 33 00-0262	LF	>2,500 LF, Gaskets, Asbestos Abatement And Disposal	9.81	
	02 82 33 00-0263		Ceiling Tile Including Glue Removal, Asbestos Abatement And Disposal (02 82 33 00-0234)		
			Note: e.g. grid, spline, or glued on.		
	02 82 33 00-0264	SET	Up To 50 SF, Ceiling Tile, Asbestos Abatement And Disposal	763.93	
			Note: Including Glue Removal		
	02 82 33 00-0265	SF	>50 To 1,000 SF, Ceiling Tile, Asbestos Abatement And Disposal	16.22	
			Note: Including Glue Removal		
	02 82 33 00-0266	SF	>1,000 To 2,500 SF, Ceiling Tile, Asbestos Abatement And Disposal	7.99	
			Note: Including Glue Removal		
	02 82 33 00-0267	SF	>2,500 To 10,000 SF, Ceiling Tile, Asbestos Abatement And Disposal	5.52	
			Note: Including Glue Removal		
	02 82 33 00-0268	SF	>10,000 SF, Ceiling Tile, Asbestos Abatement And Disposal	4.75	
			Note: Including Glue Removal		
	02 82 33 00-0269		Nailed-On Ceiling Tile System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal (02 82 33 00-0234)		
			Note: Includes ceiling tile, asbestos barrier paper, and furring strips.		
	02 82 33 00-0270	SET	Up To 50 SF, Nailed-On Ceiling Tile System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal	755.52	
	02 82 33 00-0271	SF	>50 To 1,000 SF, Nailed-On Ceiling Tile System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal	16.22	
	02 82 33 00-0272	SF	>1,000 To 2,500 SF, Nailed-On Ceiling Tile System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal	7.99	
	02 82 33 00-0273	SF	>2,500 To 10,000 SF, Nailed-On Ceiling Tile System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal	5.52	
	02 82 33 00-0274	SF	>10,000 SF, Nailed-On Ceiling Tile System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal	4.75	
	02 82 33 00-0275		Caulking, Asbestos Abatement And Disposal (02 82 33 00-0234)		
	02 82 33 00-0276		Non-Friable Caulking, Asbestos Abatement And Disposal (02 82 33 00-0275)		
	02 82 33 00-0277	SET	Up To 10 LF, Non-Friable Asbestos Contaminated Caulking, Asbestos Abatement And Disposal	373.43	
	02 82 33 00-0278	LF	>10 To 50 LF, Non-Friable Asbestos Contaminated Caulking, Asbestos Abatement And Disposal	11.06	
	02 82 33 00-0279	LF	>50 To 100 LF, Non-Friable Asbestos Contaminated Caulking, Asbestos Abatement And Disposal	7.81	
	02 82 33 00-0280	LF	>100 To 250 LF, Non-Friable Asbestos Contaminated Caulking, Asbestos Abatement And Disposal	5.83	
	02 82 33 00-0281	LF	>250 To 1,000 LF, Non-Friable Asbestos Contaminated Caulking, Asbestos Abatement And Disposal	4.39	
	02 82 33 00-0282	LF	>1,000 To 2,500 LF, Non-Friable Asbestos Contaminated Caulking, Asbestos Abatement And Disposal	3.49	
	02 82 33 00-0283	LF	>2,500 LF, Non-Friable Asbestos Contaminated Caulking, Asbestos Abatement And Disposal	3.03	
	02 82 33 00-0284		Window Putty, Asbestos Abatement And Disposal (02 82 33 00-0234)		
	02 82 33 00-0285	SET	Up To 10 LF, Window Putty, Asbestos Abatement And Disposal	373.43	
	02 82 33 00-0286	LF	>10 To 50 LF, Window Putty, Asbestos Abatement And Disposal	14.74	
	02 82 33 00-0287	LF	>50 To 100 LF, Window Putty, Asbestos Abatement And Disposal	10.17	
	02 82 33 00-0288	LF	>100 To 250 LF, Window Putty, Asbestos Abatement And Disposal	8.72	
	02 82 33 00-0289	LF	>250 To 1,000 LF, Window Putty, Asbestos Abatement And Disposal	7.49	
	02 82 33 00-0290	LF	>1,000 LF, Window Putty, Asbestos Abatement And Disposal	6.47	
	02 82 33 00-0291		Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal (02 82 33 00-0234)		



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 82 33 00-0292 SET Up To 4 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal.....	829.95	
02 82 33 00-0293 EA >4 To 40 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal	87.80	
02 82 33 00-0294 EA >40 To 60 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal	65.57	
02 82 33 00-0295 EA >60 To 125 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal	54.49	
02 82 33 00-0296 EA >125 To 625 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal	47.77	
02 82 33 00-0297 EA >625 To 1,500 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal	43.77	
02 82 33 00-0298 EA >1,500 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal	41.49	

02 83 Lead Remediation (02 80)

See CSI section 01 56 16 00-0031 for temporary stud walls, 01 74 19 00-0039 for hauling in excess of 25 miles to transfer or disposal site, 02 89 00 00-0008 for plastic sheeting for containment construction, 02 89 00 00-0015 for decontamination chambers.

02 83 19 Lead-Based Paint Remediation (02 83)

02 83 19 13 Lead-Based Paint Abatement (02 83 19)

Note: Includes materials, equipment, mobilization, preparation, critical barriers (e.g. electrical outlets, registers, windows, etc.), signage, removal, bagging, clean-up, vacuuming, transportation for up to 25 miles, disposal, personnel health monitoring, negative air, documentation and other associated costs necessary for the complete removal and disposal of lead contaminated materials in accordance with EPA and local regulations. Where types of Lead are listed by quantity, the quantity of the entire project, not a particular work area, is to be used in determining which task applies. See CSI section 01 56 16 00-0031 for temporary stud walls, 01 74 19 00-0039 for hauling in excess of 25 miles to transfer or disposal site, 02 89 00 00-0008 for plastic sheeting.

02 83 19 13-0001 Lead Sampling And Testing (02 83 19 13)

Note: Includes packaging of sample for shipping, shipping to testing lab, chain of custody documentation, analysis of sample, lab report, and sample disposal. Excludes sampling time.

02 83 19 13-0002 HR Certified Lead Sampling Technician For Bulk Sampling Or Air Monitoring	87.75
02 83 19 13-0003 EA X-Ray Fluorescence (XRF) Lead Testing	72.26
Note: Including Technician, 3 Readings Per Surface And Lab Fee	
02 83 19 13-0004 EA 5 Day Turnaround Toxicity Characteristic Leaching Procedure (TCLP) Lead Test And Lab Fee	69.18
02 83 19 13-0005 EA 48 Hour Turnaround Toxicity Characteristic Leaching Procedure (TCLP) Lead Test And Lab Fee	104.82
02 83 19 13-0006 EA 24 Hour Turnaround Toxicity Characteristic Leaching Procedure (TCLP) Lead Test And Lab Fee	146.74
02 83 19 13-0007 EA 5 Day Turnaround Total Threshold Leaching Concentration (TTL) Lead Test And Lab Fee	27.25
02 83 19 13-0008 EA 24 Hour Turnaround Total Threshold Leaching Concentration (TTL) Lead Test And Lab Fee	41.93
02 83 19 13-0009 EA 8 Hour Turnaround Total Threshold Leaching Concentration (TTL) Lead Test And Lab Fee	52.41
02 83 19 13-0010 EA 5 Day Turnaround Soluble Threshold Limit Concentration (STLC) Lead Test And Lab Fee	69.18
02 83 19 13-0011 EA 3 Day Turnaround Soluble Threshold Limit Concentration (STLC) Lead Test And Lab Fee	104.82
02 83 19 13-0012 EA 5 Day Turnaround Lead Wipe Samples And Lab Fee	11.53
02 83 19 13-0013 EA 24 Hour Turnaround Lead Wipe Samples And Lab Fee	15.72
02 83 19 13-0014 EA 8 Hour Turnaround Lead Wipe Samples And Lab Fee	23.06
02 83 19 13-0015 EA 5 Day Turnaround Lead Air Samples And Lab Fee	11.53
02 83 19 13-0016 EA 24 Hour Turnaround Lead Air Samples And Lab Fee	15.72
02 83 19 13-0017 EA 8 Hour Turnaround Lead Air Samples And Lab Fee	23.06
02 83 19 13-0018 EA 5 Day Turnaround Lead Water Test and Lab Fee	41.93
02 83 19 13-0019 EA 24 Hour Turnaround Lead Water Test and Lab Fee	62.89
02 83 19 13-0020 EA 8 Hour Turnaround Lead Water Test and Lab Fee	83.85
02 83 19 13-0021 EA 5 Day Turnaround Lead Paint Chip Test and Lab Fee	43.36
02 83 19 13-0022 EA 5 Day Turnaround Lead Soil Test and Lab Fee	86.72

02 83 19 13-0023 Minimum Charge For Lead-Based Paint Remediation (02 83 19 13)

02 83 19 13-0024 EA Lead-Based Paint Remediation Minimum Show Up Charge	1,205.57
Note: For projects where the total lead-based paint remediation charge is less than the minimum charge, use task "Minimum Charge For Lead-Based Paint Remediation" exclusively. Task "Minimum Charge For Lead-Based Paint Remediation" should not be used in conjunction with any other tasks in this section. Includes air sample and personal air monitoring.	

02 83 19 13-0025 Chemical Stripping Of Lead Contaminated Material (02 83 19 13)

Note: Per 0.02" (20 mils) application. Manufacture recommended operating temperatures not to be below 50 degrees. Includes heat gun (where required) for follow up, waste handling, packing and all personnel blood work, lab test fees and monitoring. Industrial coatings often contain other hazardous ingredients in addition to or in place of lead. These might include, but are not limited to, chromium, cadmium and mercury.

02 83 19 13-0026 SF Balustrades, Chemical Stripping Of Lead Contaminated Material	33.75
For 0.025" (25 mil) Application, Add	1.94
For 0.03" (30 mil) Application, Add	3.06
02 83 19 13-0027 SF Balustrades, Ornate, Chemical Stripping Of Lead Contaminated Material	50.00
For 0.025" (25 mil) Application, Add	2.75
For 0.03" (30 mil) Application, Add	4.28
02 83 19 13-0028 LF Up To 6" Wide, Wood Trim, Chemical Stripping Of Lead Contaminated Material	14.52
For 0.025" (25 mil) Application, Add	0.88
For 0.03" (30 mil) Application, Add	1.41
For 0.125" (125 mil) Application, Add	8.13
02 83 19 13-0029 LF >6" To 12" Wide, Wood Trim, Chemical Stripping Of Lead Contaminated Material	29.57
For 0.025" (25 mil) Application, Add	1.63
For 0.03" (30 mil) Application, Add	2.54
For 0.125" (125 mil) Application, Add	11.89
02 83 19 13-0030 SF Cornice, Chemical Stripping Of Lead Contaminated Material	15.82
For 0.025" (25 mil) Application, Add	1.04
For 0.03" (30 mil) Application, Add	1.72
02 83 19 13-0031 SF Cornice, Ornate, Chemical Stripping Of Lead Contaminated Material	44.58
For 0.025" (25 mil) Application, Add	2.48
For 0.03" (30 mil) Application, Add	3.87

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 83 19 13-0032 SF Brick, Concrete Block, Concrete, Chemical Stripping Of Lead Contaminated Material.....	9.78	
For 0.025" (25 mil) Application, Add	0.69	
For 0.03" (30 mil) Application, Add	1.16	
For 0.125" (125 mil) Application, Add	8.45	
02 83 19 13-0033 SF Cabinets, Chemical Stripping Of Lead Contaminated Material	28.21	
For 0.025" (25 mil) Application, Add	1.61	
For 0.03" (30 mil) Application, Add	2.54	
02 83 19 13-0034 SF Cabinets, Ornate, Chemical Stripping Of Lead Contaminated Material	35.93	
For 0.025" (25 mil) Application, Add	2.00	
For 0.03" (30 mil) Application, Add	3.12	
02 83 19 13-0035 SF Plaster, Stucco and Drywall Surfaces, Chemical Stripping Of Lead Contaminated Material	13.45	
For 0.025" (25 mil) Application, Add	0.87	
For 0.03" (30 mil) Application, Add	1.43	
02 83 19 13-0036 SF Columns, Chemical Stripping Of Lead Contaminated Material	12.95	
For 0.025" (25 mil) Application, Add	0.90	
For 0.03" (30 mil) Application, Add	1.50	
For 0.125" (125 mil) Application, Add	10.74	
02 83 19 13-0037 SF Flush Doors, One Side, Chemical Stripping Of Lead Contaminated Material	11.40	
For 0.025" (25 mil) Application, Add	0.77	
For 0.03" (30 mil) Application, Add	1.28	
02 83 19 13-0038 SF Raised Panel Doors and Decorative Doors, Chemical Stripping Of Lead Contaminated Material	13.99	
For 0.025" (25 mil) Application, Add	0.90	
For 0.03" (30 mil) Application, Add	1.47	
02 83 19 13-0039 SF Sectional Panel Or Roll-Up Doors, Chemical Stripping Of Lead Contaminated.....	20.59	
For 0.025" (25 mil) Application, Add	1.28	
For 0.03" (30 mil) Application, Add	2.08	
02 83 19 13-0040 EA Electrical Devices, Chemical Stripping Of Lead Contaminated Material	58.71	
For 0.025" (25 mil) Application, Add	3.34	
For 0.03" (30 mil) Application, Add	5.25	
02 83 19 13-0041 LF Door Frames, Chemical Stripping Of Lead Contaminated Material	14.61	
For 0.025" (25 mil) Application, Add	0.93	
For 0.03" (30 mil) Application, Add	1.52	
02 83 19 13-0042 SF Wood Floors, Chemical Stripping Of Lead Contaminated Material.....	8.07	
For 0.025" (25 mil) Application, Add	0.60	
For 0.03" (30 mil) Application, Add	1.03	
02 83 19 13-0043 SF HVAC Grilles, Chemical Stripping Of Lead Contaminated Material	30.14	
For 0.025" (25 mil) Application, Add	1.71	
For 0.03" (30 mil) Application, Add	2.69	
02 83 19 13-0044 SF HVAC Grilles, Ornate, Chemical Stripping Of Lead Contaminated Material	35.93	
For 0.025" (25 mil) Application, Add	2.00	
For 0.03" (30 mil) Application, Add	3.12	
02 83 19 13-0045 EA Hinges, Chemical Stripping Of Lead Contaminated Material	18.97	
For 0.025" (25 mil) Application, Add	1.25	
For 0.03" (30 mil) Application, Add	2.06	
02 83 19 13-0046 EA Up To 6" Diameter Hangers, Chemical Stripping Of Lead Contaminated Material	23.33	
For 0.025" (25 mil) Application, Add	1.47	
For 0.03" (30 mil) Application, Add	2.39	
For 0.125" (125 mil) Application, Add	14.83	
02 83 19 13-0047 LF Up To 2" Diameter Pipes and Conduit, Chemical Stripping Of Lead Contaminated Material	6.54	
For 0.025" (25 mil) Application, Add	0.48	
For 0.03" (30 mil) Application, Add	0.81	
For 0.125" (125 mil) Application, Add	6.14	
02 83 19 13-0048 LF >2" To 4" Diameter Pipes and Conduit, Chemical Stripping Of Lead Contaminated Material.....	10.46	
For 0.025" (25 mil) Application, Add	0.67	
For 0.03" (30 mil) Application, Add	1.10	
For 0.125" (125 mil) Application, Add	7.12	
02 83 19 13-0049 LF >4" To 8" Diameter Pipes and Conduit, Chemical Stripping Of Lead Contaminated Material.....	18.72	
For 0.025" (25 mil) Application, Add	1.19	
For 0.03" (30 mil) Application, Add	1.94	
For 0.125" (125 mil) Application, Add	12.18	
02 83 19 13-0050 LF >8" To 12" Diameter Pipes and Conduit, Chemical Stripping Of Lead Contaminated Material.....	25.62	
For 0.025" (25 mil) Application, Add	1.58	
For 0.03" (30 mil) Application, Add	2.56	
For 0.125" (125 mil) Application, Add	15.41	
02 83 19 13-0051 LF >12" To 16" Diameter Pipes and Conduit, Chemical Stripping Of Lead Contaminated Material.....	45.91	
For 0.025" (25 mil) Application, Add	2.75	
For 0.03" (30 mil) Application, Add	4.40	
For 0.125" (125 mil) Application, Add	24.98	
02 83 19 13-0052 SF >16" Diameter Pipes, Chemical Stripping Of Lead Contaminated Material, SF Of Surface Area	13.71	
For 0.025" (25 mil) Application, Add	0.79	
For 0.03" (30 mil) Application, Add	1.26	
For 0.125" (125 mil) Application, Add	6.67	
02 83 19 13-0053 EA Up To 12 SF Radiators, Chemical Stripping Of Lead Contaminated Material.....	272.17	
For 0.025" (25 mil) Application, Add	15.06	
For 0.03" (30 mil) Application, Add	23.50	
02 83 19 13-0054 SF Flat And Raised Panel Wood Shutters, Chemical Stripping Of Lead Contaminated Material.....	19.27	
For 0.025" (25 mil) Application, Add	1.53	
For 0.03" (30 mil) Application, Add	2.64	
02 83 19 13-0055 SF Louvered Wood Shutters, Chemical Stripping Of Lead Contaminated Material.....	21.08	
For 0.025" (25 mil) Application, Add	1.62	
For 0.03" (30 mil) Application, Add	2.78	
02 83 19 13-0056 SF Siding, Chemical Stripping Of Lead Contaminated Material	10.96	
For 0.025" (25 mil) Application, Add	0.80	
For 0.03" (30 mil) Application, Add	1.35	
For 0.125" (125 mil) Application, Add	10.24	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 83 19 13-0057 SF Soffit, Chemical Stripping Of Lead Contaminated Material.....	22.83	
For 0.025" (25 mil) Application, Add	1.34	
For 0.03" (30 mil) Application, Add	2.14	
For 0.125" (125 mil) Application, Add	11.71	
02 83 19 13-0058 SF Flat Steel Surfaces, Chemical Stripping Of Lead Contaminated Material.....	10.55	
For 0.025" (25 mil) Application, Add	0.73	
For 0.03" (30 mil) Application, Add	1.22	
For 0.125" (125 mil) Application, Add	8.64	
02 83 19 13-0059 SF Corrugated Steel, Chemical Stripping Of Lead Contaminated Material.....	11.97	
For 0.025" (25 mil) Application, Add	0.80	
For 0.03" (30 mil) Application, Add	1.32	
For 0.125" (125 mil) Application, Add	8.99	
02 83 19 13-0060 SF Steel Beams and Columns, Chemical Stripping Of Lead Contaminated Material.....	11.94	
For 0.025" (25 mil) Application, Add	0.80	
For 0.03" (30 mil) Application, Add	1.32	
For 0.125" (125 mil) Application, Add	8.99	
02 83 19 13-0061 SF Steel Trusses, Chemical Stripping Of Lead Contaminated Material.....	16.88	
For 0.025" (25 mil) Application, Add	1.04	
For 0.03" (30 mil) Application, Add	1.69	
For 0.125" (125 mil) Application, Add	10.22	
02 83 19 13-0062 SF Wood Surfaces, Chemical Stripping Of Lead Contaminated Material.....	11.94	
For 0.025" (25 mil) Application, Add	0.80	
For 0.03" (30 mil) Application, Add	1.32	
For 0.125" (125 mil) Application, Add	8.99	
02 83 19 13-0063 SF Windows (Sash, Sill, Jambs, Casing Trim), One Side, 1/1 Light, Chemical Stripping Of Lead Contaminated Material.....	27.38	
For 0.025" (25 mil) Application, Add	1.57	
For 0.03" (30 mil) Application, Add	2.48	
02 83 19 13-0064 SF Windows (Sash, Sill, Jambs, Muntins, Casing Trim), One Side, 2/2 Light, Chemical Stripping Of Lead Contaminated Material.....	29.96	
For 0.025" (25 mil) Application, Add	1.70	
For 0.03" (30 mil) Application, Add	2.67	
02 83 19 13-0065 SF Windows (Sash, Sill, Jambs, Muntins, Casing Trim), One Side, 4/4 Light, Chemical Stripping Of Lead Contaminated Material.....	31.71	
For 0.025" (25 mil) Application, Add	1.79	
For 0.03" (30 mil) Application, Add	2.80	
02 83 19 13-0066 SF Windows (Sash, Sill, Jambs, Muntins, Casing Trim), One Side, 6/6 Light, Chemical Stripping Of Lead Contaminated Material.....	33.46	
For 0.025" (25 mil) Application, Add	1.87	
For 0.03" (30 mil) Application, Add	2.93	
02 83 19 13-0067 SF Windows (Sash, Sill, Jambs, Muntins, Casing Trim), One Side, 8/8 Light Chemical Stripping Of Lead Contaminated Material.....	35.20	
For 0.025" (25 mil) Application, Add	1.96	
For 0.03" (30 mil) Application, Add	3.07	
02 83 19 13-0068 SF Windows (Sash, Sill, Jambs, Muntins, Casing Trim), One Side, 10/10 Light, Chemical Stripping Of Lead Contaminated Material.....	37.01	
For 0.025" (25 mil) Application, Add	2.05	
For 0.03" (30 mil) Application, Add	3.20	
02 83 19 13-0069 SF Windows (Sash, Sill, Jambs, Muntins, Casing Trim), One Side, 12/12 light Chemical Stripping Of Lead Contaminated Material.....	38.71	
For 0.025" (25 mil) Application, Add	2.14	
For 0.03" (30 mil) Application, Add	3.33	
02 83 19 13-0070 SF Windows (Sash, Sill, Jambs, Muntins, Casing Trim), One Side, 14/14 Light, Chemical Stripping Of Lead Contaminated Material.....	39.59	
For 0.025" (25 mil) Application, Add	2.18	
For 0.03" (30 mil) Application, Add	3.39	
02 83 19 13-0071 SF Windows (Sash, Sill, Jambs, Muntins, Casing Trim), One Side, 16/16 Light Chemical Stripping Of Lead Contaminated Material.....	40.48	
For 0.025" (25 mil) Application, Add	2.22	
For 0.03" (30 mil) Application, Add	3.46	
02 83 19 13-0072 SF Windows (Sash, Sill, Jambs, Muntins, Casing Trim), One Side, 20/20 Light, Chemical Stripping Of Lead Contaminated Material.....	41.32	
For 0.025" (25 mil) Application, Add	2.27	
For 0.03" (30 mil) Application, Add	3.52	
02 83 19 13-0073 SF Metal Stairs, Chemical Stripping Of Lead Contaminated Material.....	54.66	
For 0.025" (25 mil) Application, Add	3.13	
For 0.03" (30 mil) Application, Add	4.95	
For 0.125" (125 mil) Application, Add	25.67	
02 83 19 13-0074 LF Metal Single Hand Rail, Chemical Stripping Of Lead Contaminated Material.....	9.53	
For 0.025" (25 mil) Application, Add	0.63	
For 0.03" (30 mil) Application, Add	1.03	
For 0.125" (125 mil) Application, Add	6.88	
02 83 19 13-0075 SF Metal Railing And Posts, Chemical Stripping Of Lead Contaminated Material.....	27.83	
Note: The unit of measure "SF" is measured for "Length x Height". Work includes both sides of railing.		
For 0.025" (25 mil) Application, Add	1.69	
For 0.03" (30 mil) Application, Add	2.72	
For 0.125" (125 mil) Application, Add	15.96	
02 83 19 13-0076 SF Metal Picket Fence, Chemical Stripping Of Lead Contaminated Material.....	30.39	
For 0.025" (25 mil) Application, Add	1.77	
For 0.03" (30 mil) Application, Add	2.81	
For 0.125" (125 mil) Application, Add	15.10	

MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

02 83 19 13-0077

Demolish Lead Contaminated Material (02 83 19 13)

Note: Includes waste handling, packing, all personnel blood work, lab test fees and monitoring. Industrial coatings often contain other hazardous ingredients in addition to or in place of lead. These might include, but are not be limited to, chromium, cadmium and mercury.

02 83 19 13-0078	SF	Demolish Ceiling Suspension System, Lead Contaminated Material	2.40
02 83 19 13-0079	SF	Demolish Suspended Ceiling System And Tile, Lead Contaminated Material	1.39
02 83 19 13-0080	SF	Demolish Acoustical Ceiling Tile, Lead Contaminated Material	0.89
02 83 19 13-0081	SF	Demolish Metal Pan Grid System, Lead Contaminated Material	1.38
02 83 19 13-0082	EA	Demolish Ceiling And Recessed Light Fixtures, Lead Contaminated Material	66.82
02 83 19 13-0083	EA	Demolish >2' x 4' Light Fixtures, Lead Contaminated Material	88.64
02 83 19 13-0084	SF	Demolish Non-Load Bearing Partitions Of Plaster Or Stucco, Lath And Studs, Lead Contaminated Material	9.90
02 83 19 13-0085	SF	Demolish Non-Load Bearing Partitions Of Gypsum Board And Studs, Lead Contaminated Material	5.55
02 83 19 13-0086	SF	Demolish Brick, Lead Contaminated Material	4.17
02 83 19 13-0087	SF	Demolish Concrete Block, Lead Contaminated Material	5.37
02 83 19 13-0088	SF	Demolish Tile, Lead Contaminated Material	4.05
02 83 19 13-0089	SF	Demolish Up To 6" Concrete, Lead Contaminated Material	6.09
02 83 19 13-0090	IN	Drilling, Up To 1/2" Diameter In Lead Paint/Asbestos Material Per Inch Of Depth	4.75
02 83 19 13-0091	IN	Drilling, >1/2" To 1" Diameter In Lead Paint/Asbestos Material Per Inch Of Depth	6.33
02 83 19 13-0092	LF	Demolish Wood Balustrades And Railings, Lead Contaminated Material	6.93
02 83 19 13-0093	LF	Demolish Up To 6" Wide Baseboard, Lead Contaminated Material	1.81
02 83 19 13-0094	LF	Demolish >6" To 12" Wide Baseboard, Lead Contaminated Material	2.26
02 83 19 13-0095	LF	Demolish Base Shoe Molding, Lead Contaminated Material	1.47
02 83 19 13-0096	SF	Demolish Concrete, Lead Contaminated Material	13.78
02 83 19 13-0097	LF	Demolish Cabinets, Lead Contaminated Material	32.11
02 83 19 13-0098	SF	Demolish Ceilings, Gypsum Board, Lead Contaminated Material	1.82
02 83 19 13-0099	SF	Demolish Up To 12" Diameter Columns, Lead Contaminated Material	17.79
02 83 19 13-0100	SF	Demolish Cornice, Lead Contaminated Material	2.37
02 83 19 13-0101	EA	Demolish Doors, Lead Contaminated Material	69.65
02 83 19 13-0102	LF	Demolish Door And Window Trim Or Frames, Lead Contaminated Material	2.11
02 83 19 13-0103	EA	Demolish Electrical Devices, Lead Contaminated Material	21.37
02 83 19 13-0104	LF	Demolish Up To 1" Diameter Electrical Conduit, Lead Contaminated Material	2.75
02 83 19 13-0105	LF	Demolish >1" To 2" Diameter Electrical Conduit, Lead Contaminated Material	4.56
02 83 19 13-0106	SF	Demolish Wood Floors, Lead Contaminated Material	3.29
02 83 19 13-0107	SF	Demolish Grilles, Lead Contaminated Material	3.87
02 83 19 13-0108	EA	Demolish Hinges, Lead Contaminated Material	7.77
02 83 19 13-0109	EA	Demolish Up To 6" Diameter Hangers, Lead Contaminated Material	16.69
02 83 19 13-0110	LF	Demolish Up To 2" Diameter Pipes, Lead Contaminated Material	6.85
02 83 19 13-0111	LF	Demolish >2" To 4" Diameter Pipes, Lead Contaminated Material	9.99
02 83 19 13-0112	LF	Demolish >4" To 8" Diameter Pipes, Lead Contaminated Material	15.09
02 83 19 13-0113	LF	Demolish >8" To 12" Diameter Pipes, Lead Contaminated Material	27.83
02 83 19 13-0114	EA	Demolish Radiators, Lead Contaminated Material	120.21
02 83 19 13-0115	EA	Demolish Shutters, Lead Contaminated Material	46.84
02 83 19 13-0116	SF	Demolish Siding, Lead Contaminated Material	1.86
02 83 19 13-0117	SF	Demolish Soffit, Lead Contaminated Material	1.58
02 83 19 13-0118	SF	Demolish Flat Steel Surfaces, Lead Contaminated Material	4.33
02 83 19 13-0119	SF	Demolish Steel Beams, Lead Contaminated Material	5.10
02 83 19 13-0120	SF	Demolish Trusses, Lead Contaminated Material	6.69
02 83 19 13-0121	SF	Demolish Walls, Wood, Lead Contaminated Material	4.95
02 83 19 13-0122	SF	Demolish Windows, Lead Contaminated Material	16.63
02 83 19 13-0123	SF	Demolish Metal Stair, Lead Contaminated Material	7.96
02 83 19 13-0124	LF	Demolish Single Metal Hand Rail, Lead Contaminated Material	5.85
02 83 19 13-0125	LF	Demolish Metal Railing And Posts, Lead Contaminated Material	9.55
02 83 19 13-0126	SF	Demolish Metal Picket Fence, Lead Contaminated Material	2.63
02 83 19 13-0127	SF	Demolish Plywood, Lead Contaminated Material	7.19
02 83 19 13-0128	SF	Demolish Planks (Various Sizes), Lead Contaminated Material	3.51
02 83 19 13-0129	EA	Demolish Metal Brackets Or Other Small Metal Shapes, Lead Contaminated Material	21.94
02 83 19 13-0130	SF	Demolish Ceramic Tile Block, Lead Contaminated Material	4.79
02 83 19 13-0131	LF	Demolish Metal Guard Rails, Lead Contaminated Material	13.17
02 83 19 13-0132	SF	Demolish Up To 100 SF Gypsum Wall Board, Lead Contaminated Material	7.02
02 83 19 13-0133	SF	Demolish >100 To 500 SF Gypsum Wall Board, Lead Contaminated Material	5.05
02 83 19 13-0134	SF	Demolish >500 To 2,500 SF Gypsum Wall Board, Lead Contaminated Material	3.95
02 83 19 13-0135	SF	Demolish >2,500 SF Gypsum Wall Board, Lead Contaminated Material	3.07
02 83 19 13-0136	SF	Demolish Up To 100 SF Plaster/Stucco, Lead Contaminated Material	21.94
02 83 19 13-0137	SF	Demolish >100 To 500 SF Plaster/Stucco, Lead Contaminated Material	15.60
02 83 19 13-0138	SF	Demolish >500 To 2,500 SF Plaster/Stucco, Lead Contaminated Material	11.70
02 83 19 13-0139	SF	Demolish >2,500 To 10,000 SF Plaster/Stucco, Lead Contaminated Material	8.78

02 83 19 13-0140

Wet Sanding/Light Scraping Of Lead Contaminated Material (02 83 19 13)

Note: Remove loose, flaking lead-based paint to prepare for painting.

02 83 19 13-0141	SF	Wet Sand/Scrape Of Lead Contaminated Material To Prepare For Painting	3.34
------------------	----	---	------

02 83 19 13-0142

Lead Abatement Encapsulation (02 83 19 13)

Note: Can also be used for asbestos contaminated encapsulation. Spray applied application unless task described otherwise.

02 83 19 13-0143	SF	Balustrades, Lead Abatement Encapsulation	6.11
02 83 19 13-0144	LF	Up To 6" Wide, Baseboard, Lead Abatement Encapsulation	6.02
02 83 19 13-0145	LF	>6" To 12" Wide, Baseboard, Lead Abatement Encapsulation	8.18
02 83 19 13-0146	SF	Brick, Concrete Block, Concrete, Lead Abatement Encapsulation	3.94
02 83 19 13-0147	SF	Ornate Cabinets, Lead Abatement Encapsulation	8.82



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 83 19 13-0148	SF		Simple Design Cabinets, Lead Abatement Encapsulation	7.19	
02 83 19 13-0149	SF		Drywall Ceilings, Lead Abatement Encapsulation	2.49	
02 83 19 13-0150	SF		Wood Ceilings, Lead Abatement Encapsulation	3.01	
02 83 19 13-0151	SF		Acoustical And Popcorn Ceilings, Lead Abatement Encapsulation	2.79	
02 83 19 13-0152	SF		Columns, Lead Abatement Encapsulation	4.76	
02 83 19 13-0153	SF		Doors, Lead Abatement Encapsulation	9.03	
02 83 19 13-0154	LF		Up To 2" Electrical Conduit, Lead Abatement Encapsulation	3.99	
02 83 19 13-0155	SF		Picket Fence (Brush), Lead Abatement Encapsulation	2.86	
02 83 19 13-0156	SF		Wood Floors (Roller), Lead Abatement Encapsulation	2.39	
02 83 19 13-0157	SF		Grilles, Vents, Lead Abatement Encapsulation	6.59	
02 83 19 13-0158	LF		Gutters And Downspouts, Lead Abatement Encapsulation	6.11	
02 83 19 13-0159	EA		Hangers, Lead Abatement Encapsulation	51.70	
02 83 19 13-0160	LF		Up To 4" Diameter Pipe (Brush), Lead Abatement Encapsulation	3.71	
02 83 19 13-0161	LF		>4" To 8" Diameter Pipe (Brush), Lead Abatement Encapsulation	5.37	
02 83 19 13-0162	LF		>8" To 12" Diameter Pipe (Brush), Lead Abatement Encapsulation	8.35	
02 83 19 13-0163	LF		>12" To 16" Diameter Pipe (Brush), Lead Abatement Encapsulation	12.32	
02 83 19 13-0164	EA		Radiators, Lead Abatement Encapsulation	134.86	
02 83 19 13-0165	EA		Up To 6' Shutters, Lead Abatement Encapsulation	192.13	
02 83 19 13-0166	SF		Siding, Lead Abatement Encapsulation	3.40	
02 83 19 13-0167	SF		Up To 12" Soffit, Lead Abatement Encapsulation	4.76	
02 83 19 13-0168	SF		Steel, Flat Surfaces And Tanks Up To 12', Lead Abatement Encapsulation	3.94	
02 83 19 13-0169	SF		Steel Beams And Metal Decks, Lead Abatement Encapsulation	5.14	
02 83 19 13-0170	SF		Trusses, Lead Abatement Encapsulation	5.14	
02 83 19 13-0171	SF		Drywall Walls, Lead Abatement Encapsulation	2.22	
02 83 19 13-0172	SF		Wood Walls, Lead Abatement Encapsulation	2.72	
02 83 19 13-0173	EA		Window Without Grille, Lead Abatement Encapsulation	114.42	
02 83 19 13-0174	EA		Window With Grille, Lead Abatement Encapsulation	146.99	
02 83 19 13-0175	LF		Wood Door Frames And Trim, Lead Abatement Encapsulation	3.48	
02 83 19 13-0176	LF		Steel Lintels, Lead Abatement Encapsulation	4.01	

02 83 33 Removal and Disposal of Material Containing Lead (02 83)

02 83 33 13 Lead-Based Paint Removal and Disposal (02 83 33)

02 83 33 13-0001 Remove Loose Dirt And Debris Containing Lead (02 83 33 13)

02 83 33 13-0002	SF		High Efficiency Particulate Air (HEPA) Vacuum And Wet Cleaning Of Lead Contaminated Area With Mild Detergent	0.28	
02 83 33 13-0003	SF		High Efficiency Particulate Air (HEPA) Vacuum And Wet Cleaning Of Lead Contaminated Area With Tri-Sodium Phosphate	0.29	
02 83 33 13-0004	SF		High Efficiency Particulate Air (HEPA) Vacuum And Shampoo Cleaning Of Lead Contaminated Carpeting	1.38	

02 84 Polychlorinated Biphenyl Remediation (02 80)

02 84 16 Handling of Lighting Ballasts and Lamps Containing PBCs and Mercury (02 84)

02 84 16 00-0001 Removal Of TSCA-Exempt PCB And Non-PCB Ballasts From Demolished Fixtures (02 84 16)

Note: Includes removal of TSCA-exempt PCB and Non-PCB ballast from demolished lighting fixture and placing ballast in an approved container for recycling.

02 84 16 00-0002	EA		Removal Of TSCA-Exempt Polychlorinated Biphenyl (PCB) And Non-PCB Ballast From A Demolished Fixture For Recycling	12.32	
------------------	----	--	---	-------	--

02 84 16 00-0003 Recycle TSCA-Exempt PCB And Non-PCB Ballasts (02 84 16)

Note: Non-leaking ballasts. Includes containers, shipping costs and recycling fees. Excludes ballast removal.

02 84 16 00-0004	EA		Recycle Non-Polychlorinated Biphenyl (PCB) Ballast Removed From Up To 4' Length Fixtures	3.19	
02 84 16 00-0005	EA		Recycle Non-Polychlorinated Biphenyl (PCB) Ballast Removed From >4' To 8' Length Fixtures	4.06	
02 84 16 00-0006	EA		Recycle TSCA-Exempt Polychlorinated Biphenyl (PCB) Ballast Removed From Up To 4' Length Fixtures	9.60	
02 84 16 00-0007	EA		Recycle TSCA-Exempt Polychlorinated Biphenyl (PCB) Ballast Removed From >4' To 8' Length Fixtures	20.09	

02 84 16 00-0008 Disposal Of Leaking PCB And Non-PCB Ballasts (02 84 16)

Note: Disposal at an EPA approved facility. Includes containers, shipping costs and disposal fees. Excludes ballast removal.

02 84 16 00-0009	EA		Dispose Of Leaking Non-Polychlorinated Biphenyl (PCB) Ballast Removed From Up To 4' Length Fixtures	5.81	
02 84 16 00-0010	EA		Dispose Of Leaking Non-Polychlorinated Biphenyl (PCB) Ballast Removed From >4' To 8' Length Fixtures	8.00	
02 84 16 00-0011	EA		Dispose Of Leaking Polychlorinated Biphenyl (PCB) Ballast Removed From Up To 4' Length Fixtures	24.68	
02 84 16 00-0012	EA		Dispose Of Leaking Polychlorinated Biphenyl (PCB) Ballast Removed From >4' To 8' Length Fixtures	47.91	

02 84 33 Removal and Disposal of Polychlorinated Biphenyls (02 84)

02 84 33 00-0001 Removal And Disposal Of Polychlorinated Biphenyls Oil Filled Transformers (02 84 33)

Note: Includes disposal in approved container, rigging, manifesting, hauling, etc.

02 84 33 00-0002	EA		Removal And Disposal Of Transformers 2.5/3.5 KVA, Non-Polychlorinated Biphenyl (PCB)	5,254.17	
			Note: Includes disposal costs.		
02 84 33 00-0003	EA		Removal And Disposal Of Transformers 20 KVA, Non-Polychlorinated Biphenyl (PCB)	8,266.07	
			Note: Includes disposal costs.		
02 84 33 00-0004	EA		Removal And Disposal Of Switch, Non-Polychlorinated Biphenyl (PCB)	2,242.82	

02 Existing Conditions**02 80 Facility Remediation****02 84 Polychlorinated Biphenyl Remediation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 84 33 00-0005 EA Removal And Disposal Of Transformers 2.5/3.5 KVA, Polychlorinated Biphenyl (PCB).....	9,981.21	
Note: Includes disposal costs.		
02 84 33 00-0006 EA Removal And Disposal Of Switch, Polychlorinated Biphenyl (PCB)	3,994.29	
02 84 33 00-0007 EA Removal And Disposal Of Transformers 20 KVA, Polychlorinated Biphenyl (PCB).....	15,758.96	
Note: Includes disposal costs.		

02 87 Bio-Hazard Material Remediation (02 80)**02 87 13 Mold Remediation (02 87)**

Note: All unit pricing in this section includes: materials, equipment, mobilization, preparation, removal, clean-up, vacuuming, transportation for up to 25 miles, disposal, monitoring (personnel and air), sampling/testing, fees, documentation and other associated costs necessary for the complete removal and disposal of mold in accordance with EPA, OSHA, IICRC standards and local regulations. Where types of Mold are listed by quantity, the quantity of the entire project, not a particular work area of building, is to be used in determining which tasks apply. For certain types of work, there is a task with a unit of measure of SET for a quantity of less than 100 LF or SF (Up to 25 LF for Mold Abatement pipe insulation), followed by a series of tasks for other quantities. For those tasks the contractor will be paid the first task with a unit of measure of EA, plus an additional task to arrive at the appropriate quantity for the project. See CSI section 01 56 16 00-0031 for temporary stud walls, 01 74 19 00-0039 for hauling in excess of 25 miles to transfer or disposal site, 02 89 00 00-0008 for plastic sheeting for containment construction, 02 89 00 00-0015 for decontamination chambers.

02 87 13 33 Removal and Disposal of Materials with Mold (02 87 13)

02 87 13 33-0001	Pipe And Pipe Fittings Insulation, Mold Abatement And Disposal (02 87 13 33)	
	Note: Treat fittings as additional lf of insulation.	
02 87 13 33-0002	Pipe Insulation, Mold Abatement And Disposal (02 87 13 33-0001)	
	Note: Diameter is outer size of insulation.	
02 87 13 33-0003	Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal (02 87 13 33-0002)	
	Note: Excludes encased fittings.	
02 87 13 33-0004	SET Up To 20 LF, Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal	767.59
02 87 13 33-0005	LF >20 To 250 LF, Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal	29.93
02 87 13 33-0006	LF >250 To 500 LF, Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal	22.72
02 87 13 33-0007	LF >500 To 2,500 LF, Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal.....	17.32
02 87 13 33-0008	LF >2,500 To 10,000 LF, Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal.....	13.26
02 87 13 33-0009	LF >10,000 LF, Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal.....	11.68
02 87 13 33-0010	>6" Diameter Pipe Insulation, Mold Abatement And Disposal (02 87 13 33-0002)	
02 87 13 33-0011	SET Up To 20 LF, >6" Diameter Pipe Insulation, Mold Abatement And Disposal.....	833.46
02 87 13 33-0012	LF >20 To 250 LF, >6" Diameter Pipe Insulation, Mold Abatement And Disposal	37.54
02 87 13 33-0013	LF >250 To 500 LF, >6" Diameter Pipe Insulation, Mold Abatement And Disposal	29.26
02 87 13 33-0014	LF >500 To 2,500 LF, >6" Diameter Pipe Insulation, Mold Abatement And Disposal	23.04
02 87 13 33-0015	LF >2,500 To 10,000 LF, >6" Diameter Pipe Insulation, Mold Abatement And Disposal	18.38
02 87 13 33-0016	LF >10,000 LF, >6" Diameter Pipe Insulation, Mold Abatement And Disposal	16.55
02 87 13 33-0017	Thermal Insulation, Mold Abatement And Disposal (02 87 13 33)	
02 87 13 33-0018	Other Thermal Insulation, Up To 3" Thick, Mold Abatement And Disposal (02 87 13 33-0017)	
02 87 13 33-0019	SET Up To 50 SF, Up To 3" Thick Thermal Insulation, Mold Abatement And Disposal.....	800.53
02 87 13 33-0020	SF >50 To 500 SF, Up To 3" Thick Thermal Insulation, Mold Abatement And Disposal	17.67
02 87 13 33-0021	SF >500 To 2,500 SF, Up To 3" Thick Thermal Insulation, Mold Abatement And Disposal	13.53
02 87 13 33-0022	SF >2,500 To 10,000 SF, Up To 3" Thick Other Thermal Insulation, Mold Abatement And Disposal	10.42
02 87 13 33-0023	SF >10,000 SF, Up To 3" Thick Thermal Insulation, Mold Abatement And Disposal	8.24
02 87 13 33-0024	Surfacing Material, Mold Abatement And Disposal (02 87 13 33)	
	Note: e.g. fireproofing, acoustical plaster, etc.	
02 87 13 33-0025	Stucco, Mold Abatement And Disposal (02 87 13 33-0024)	
	Note: Remove surface coat from brown coat or remove entire assembly, including lath.	
02 87 13 33-0026	SET Up To 50 SF, Stucco, Mold Abatement And Disposal	782.24
02 87 13 33-0027	SF >50 To 500 SF, Stucco, Mold Abatement And Disposal	17.30
02 87 13 33-0028	SF >500 To 2,500 SF, Stucco, Mold Abatement And Disposal.....	13.16
02 87 13 33-0029	SF >2,500 To 10,000 SF, Stucco, Mold Abatement And Disposal	10.05
02 87 13 33-0030	SF >10,000 SF, Stucco, Mold Abatement And Disposal	7.74
02 87 13 33-0031	Acoustical Plaster, Mold Abatement And Disposal (02 87 13 33-0024)	
	Note: Remove surface coat from brown coat or remove entire assembly, including lath.	
02 87 13 33-0032	SET Up To 50 SF, Acoustical Plaster, Mold Abatement And Disposal	782.24
02 87 13 33-0033	SF >50 To 500 SF, Acoustical Plaster, Mold Abatement And Disposal.....	17.30
02 87 13 33-0034	SF >500 To 2,500 SF, Acoustical Plaster, Mold Abatement And Disposal.....	13.16
02 87 13 33-0035	SF >2,500 To 10,000 SF, Acoustical Plaster, Mold Abatement And Disposal.....	10.05
02 87 13 33-0036	SF >10,000 SF, Acoustical Plaster, Mold Abatement And Disposal.....	7.74
02 87 13 33-0037	Gypsum Board, Mold Abatement And Disposal (02 87 13 33-0024)	
02 87 13 33-0038	SET Up To 100 SF, Gypsum Board, Mold Abatement And Disposal.....	818.84
02 87 13 33-0039	SF >100 To 500 SF, Gypsum Board, Mold Abatement And Disposal.....	6.09
02 87 13 33-0040	SF >500 To 2,500 SF, Gypsum Board, Mold Abatement And Disposal	4.92
02 87 13 33-0041	SF >2,500 To 10,000 SF, Gypsum Board, Mold Abatement And Disposal	3.99



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 87 13 33-0042 SF >10,000 SF, Gypsum Board, Mold Abatement And Disposal	3.06	
02 87 13 33-0043 Fireproofing, Mold Abatement And Disposal (02 87 13 33-0024)		
Note: Exposed surface area, includes associated overspray.		
02 87 13 33-0044 SET Up To 50 SF, Fireproofing, Mold Abatement And Disposal	800.53	
02 87 13 33-0045 SF >50 To 500 SF, Fireproofing, Mold Abatement And Disposal	23.94	
02 87 13 33-0046 SF >500 To 2,500 SF, Fireproofing, Mold Abatement And Disposal	18.25	
02 87 13 33-0047 SF >2,500 To 10,000 SF, Fireproofing, Mold Abatement And Disposal	13.96	
02 87 13 33-0048 SF >10,000 SF, Fireproofing, Mold Abatement And Disposal	10.75	
02 87 13 33-0049 Flooring, Mold Abatement And Disposal (02 87 13 33)		
Note: Includes cove base.		
02 87 13 33-0050 Floor Tile Or Linoleum, Mold Abatement And Disposal (02 87 13 33-0049)		
02 87 13 33-0051 Floor Tile Or Linoleum, Mold Abatement And Disposal (02 87 13 33-0050)		
Note: Single layer or first of multiple layers.		
02 87 13 33-0052 SET Up To 100 SF, Single Layer Or First Of Multiple Layers, Floor Tile Or Linoleum, Mold Abatement And Disposal	818.84	
02 87 13 33-0053 SF >100 To 500 SF, Single Layer Or First Of Multiple Layers, Floor Tile Or Linoleum, Mold Abatement And Disposal	6.05	
For Each Additional Layer, Add		
02 87 13 33-0054 SF >500 To 2,500 SF, Single Layer Or First Of Multiple Layers, Floor Tile Or Linoleum, Mold Abatement And Disposal	3.60	
For Each Additional Layer, Add		
02 87 13 33-0055 SF >2,500 To 10,000 SF, Single Layer Or First Of Multiple Layers, Floor Tile Or Linoleum, Mold Abatement And Disposal	2.28	
For Each Additional Layer, Add		
02 87 13 33-0056 SF >10,000 SF, Single Layer Or First Of Multiple Layers, Floor Tile Or Linoleum, Mold Abatement And Disposal	1.88	
For Each Additional Layer, Add		
02 87 13 33-0057 Carpet, Mold Abatement And Disposal (02 87 13 33-0049)		
02 87 13 33-0058 Carpet, Glue Down, Mold Abatement And Disposal (02 87 13 33-0057)		
02 87 13 33-0059 SET Up To 100 SF, Carpet, Glue Down, Mold Abatement And Disposal	818.84	
02 87 13 33-0060 SF >100 To 500 SF, Carpet, Glue Down, Mold Abatement And Disposal	5.12	
02 87 13 33-0061 SF >500 To 2,500 SF, Carpet, Glue Down, Mold Abatement And Disposal	3.40	
02 87 13 33-0062 SF >2,500 To 10,000 SF, Carpet, Glue Down, Mold Abatement And Disposal	2.43	
02 87 13 33-0063 SF >10,000 SF, Carpet, Glue Down, Mold Abatement And Disposal	1.98	
02 87 13 33-0064 Carpet, Padded With Tack Strips, Mold Abatement And Disposal (02 87 13 33-0057)		
02 87 13 33-0065 SET Up To 100 SF, Carpet And Pad, Mold Abatement And Disposal	818.84	
Note: Includes tack strips.		
02 87 13 33-0066 SF >100 To 500 SF, Carpet And Pad, Mold Abatement And Disposal	5.70	
Note: Includes tack strips.		
02 87 13 33-0067 SF >500 To 2,500 SF, Carpet And Pad, Mold Abatement And Disposal	4.28	
Note: Includes tack strips.		
02 87 13 33-0068 SF >2,500 To 10,000 SF, Carpet And Pad, Mold Abatement And Disposal	3.49	
Note: Includes tack strips.		
02 87 13 33-0069 SF >10,000 SF, Carpet And Pad, Mold Abatement And Disposal	2.81	
Note: Includes tack strips.		
02 87 13 33-0070 Subflooring, Mold Abatement And Disposal (02 87 13 33-0049)		
02 87 13 33-0071 SET Up To 75 SF, Subflooring, Mold Abatement And Disposal	800.53	
02 87 13 33-0072 SF >75 To 500 SF, Subflooring, Mold Abatement And Disposal	6.90	
02 87 13 33-0073 SF >500 To 2,500 SF, Subflooring, Mold Abatement And Disposal	4.59	
02 87 13 33-0074 SF >2,500 To 10,000 SF, Subflooring, Mold Abatement And Disposal	2.96	
02 87 13 33-0075 SF >10,000 SF, Subflooring, Mold Abatement And Disposal	2.06	
02 87 13 33-0076 Siding, Mold Abatement And Disposal (02 87 13 33)		
02 87 13 33-0077 Interior Paneling, Mold Abatement And Disposal (02 87 13 33-0076)		
Note: Includes detachment of mounted objects before removal.		
02 87 13 33-0078 SET Up To 100 SF, Interior Paneling, Mold Abatement And Disposal	818.84	
Note: Includes detachment of mounted objects before removal.		
02 87 13 33-0079 SF >100 To 500 SF, Interior Paneling, Mold Abatement And Disposal	6.04	
Note: Includes detachment of mounted objects before removal.		
02 87 13 33-0080 SF >500 To 2,500 SF, Interior Paneling, Mold Abatement And Disposal	4.39	
Note: Includes detachment of mounted objects before removal.		
02 87 13 33-0081 SF >2,500 To 10,000 SF, Interior Paneling, Mold Abatement And Disposal	2.75	
Note: Includes detachment of mounted objects before removal.		
02 87 13 33-0082 SF >10,000 SF, Interior Paneling, Mold Abatement And Disposal	2.22	
Note: Includes detachment of mounted objects before removal.		
02 87 13 33-0083 Exterior Siding, Mold Abatement And Disposal (02 87 13 33-0076)		
02 87 13 33-0084 SET Up To 100 SF, Exterior Siding Board, Mold Abatement And Disposal	818.84	
02 87 13 33-0085 SF >100 To 500 SF, Exterior Siding Board, Mold Abatement And Disposal	7.39	
02 87 13 33-0086 SF >500 To 2,500 SF, Exterior Siding Board, Mold Abatement And Disposal	5.28	

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

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
02 87 13 33-0087	SF	>2,500 To 10,000 SF, Exterior Siding Board, Mold Abatement And Disposal	3.71	
02 87 13 33-0088	SF	>10,000 SF, Exterior Siding Board, Mold Abatement And Disposal	3.40	
02 87 13 33-0089		Contaminated Debris, Mold Abatement And Disposal (02 87 13 33)		
02 87 13 33-0090		Contaminated Debris, Mold Abatement And Disposal (02 87 13 33-0089)		
02 87 13 33-0091	SET	Up To 20 CF, Contaminated Debris, Mold Abatement And Disposal.....	833.46	
02 87 13 33-0092	CF	>20 To 100 CF, Contaminated Debris, Mold Abatement And Disposal.....	30.18	
02 87 13 33-0093	CF	>100 To 250 CF, Contaminated Debris, Mold Abatement And Disposal	21.58	
02 87 13 33-0094	CF	>250 To 500 CF, Contaminated Debris, Mold Abatement And Disposal	17.28	
02 87 13 33-0095	CF	>500 To 2,500 CF, Contaminated Debris, Mold Abatement And Disposal	14.70	
02 87 13 33-0096	CF	>2,500 To 10,000 CF, Contaminated Debris, Mold Abatement And Disposal	10.02	
02 87 13 33-0097	CF	>10,000 CF, Contaminated Debris, Mold Abatement And Disposal	9.45	
02 87 13 33-0098		Other Mold Containing Materials, Mold Abatement And Disposal (02 87 13 33)		
02 87 13 33-0099		Wood Studs, Mold Abatement And Disposal (02 87 13 33-0098)		
		Note: 2" x 4" or 2" x 6" exposed studs in walls. Excludes surfacing material.		
02 87 13 33-0100	SET	Up To 100 LF, Wood Studs, Mold Abatement And Disposal	409.40	
02 87 13 33-0101	LF	>100 To 500 LF, Wood Studs, Mold Abatement And Disposal.....	3.37	
02 87 13 33-0102	LF	>500 To 2,500 LF, Wood Studs, Mold Abatement And Disposal.....	2.57	
02 87 13 33-0103	LF	>2,500 To 10,000 LF, Wood Studs, Mold Abatement And Disposal.....	2.06	
02 87 13 33-0104	LF	>10,000 LF, Wood Studs, Mold Abatement And Disposal	1.62	
02 87 13 33-0105		Ceiling Tile, Mold Abatement And Disposal (02 87 13 33-0098)		
		Note: e.g. grid, spline, or glued on; 12" x 12" to 2' x 4'.		
02 87 13 33-0106	SET	Up To 100 SF, Ceiling Tile, Mold Abatement And Disposal.....	818.84	
02 87 13 33-0107	SF	>100 To 1,000 SF, Ceiling Tile, Mold Abatement And Disposal	10.05	
02 87 13 33-0108	SF	>1,000 To 2,500 SF, Ceiling Tile, Mold Abatement And Disposal	4.98	
02 87 13 33-0109	SF	>2,500 To 10,000 SF, Ceiling Tile, Mold Abatement And Disposal	3.71	
02 87 13 33-0110	SF	>10,000 To 25,000 SF, Ceiling Tile, Mold Abatement And Disposal	3.67	
02 87 13 33-0111	SF	>25,000 To 50,000 SF, Ceiling Tile, Mold Abatement And Disposal	3.60	
02 87 13 33-0112	SF	>50,000 To 100,000 SF, Ceiling Tile, Mold Abatement And Disposal	3.21	
02 87 13 33-0113	SF	>100,000 SF, Ceiling Tile, Mold Abatement And Disposal	2.86	
02 87 13 33-0114		Caulking, Mold Abatement And Disposal (02 87 13 33-0098)		
02 87 13 33-0115	SET	Up To 20 LF, Caulking, Mold Abatement And Disposal.....	187.62	
02 87 13 33-0116	LF	>20 To 50 LF, Caulking, Mold Abatement And Disposal	3.79	
02 87 13 33-0117	LF	>50 To 100 LF, Caulking, Mold Abatement And Disposal	2.73	
02 87 13 33-0118	LF	>100 To 250 LF, Caulking, Mold Abatement And Disposal	2.07	
02 87 13 33-0119	LF	>250 To 1,000 LF, Caulking, Mold Abatement And Disposal	1.55	
02 87 13 33-0120	LF	>1,000 To 2,500 LF, Caulking, Mold Abatement And Disposal.....	1.26	
02 87 13 33-0121	LF	>2,500 LF, Caulking, Mold Abatement And Disposal.....	1.09	
02 87 13 33-0122		Wipe Down Walls, Ceilings And Floors (02 87 13 33-0098)		
02 87 13 33-0123	CSF	Wipe Down Floors With Mild Bleach Solution.....	20.73	
		For >25 To 50, Deduct	-2.07	
		For >50 To 200, Deduct	-5.18	
		For >200, Deduct	-8.28	
02 87 13 33-0124	CSF	Wipe Down Walls With Mild Bleach Solution	24.39	
		For >25 To 50, Deduct	-2.44	
		For >50 To 200, Deduct	-6.09	
		For >200, Deduct	-9.75	
02 87 13 33-0125	CSF	Wipe Down Ceilings With Mild Bleach Solution	27.74	
		For >25 To 50, Deduct	-2.77	
		For >50 To 200, Deduct	-6.93	
		For >200, Deduct	-11.09	
02 87 13 33-0126	CSF	Wipe Down Countertops With Mild Bleach Solution	22.61	
		For >25 To 50, Deduct	-2.26	
02 87 13 33-0127	CSF	Wipe Down Other Surfaces With Mild Bleach Solution.....	28.70	
		For >25 To 50, Deduct	-2.87	
		For >50 To 200, Deduct	-7.17	
		For >200, Deduct	-11.47	
02 87 13 33-0128		Cabinets (02 87 13 33-0098)		
02 87 13 33-0129	SET	Up To 10 LF, Base Cabinet, Mold Abatement And Disposal	982.97	
02 87 13 33-0130	LF	>10 To 20 LF, Base Cabinet, Mold Abatement And Disposal.....	102.80	
02 87 13 33-0131	LF	>20 LF, Base Cabinet, Mold Abatement And Disposal.....	80.31	
02 87 13 33-0132	SET	Up To 10 LF, Wall Cabinet, Mold Abatement And Disposal.....	851.24	
02 87 13 33-0133	LF	>10 To 20 LF, Wall Cabinet, Mold Abatement And Disposal	80.62	
02 87 13 33-0134	LF	>20 LF, Wall Cabinet, Mold Abatement And Disposal	58.14	
02 87 16		Excrement Removal (02 87)		
		Note: Includes materials, equipment, mobilization, preparation, critical barriers (e.g. electrical outlets, registers, windows, etc.), signage, removal, clean-up, vacuuming, disposal, personnel health monitoring, documentation and other associated costs		



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
------------------------------	---------------------------	-------------------------

necessary for the complete removal and disposal of the contaminated material in accordance with EPA and local regulations. The quantity of the entire project, not a particular work area, is to be used in determining which tasks apply. There is a task with a unit of measure of EA for a quantity of less than 10 SF, followed by a series of tasks for additional quantities. For those tasks, the contractor will be paid the first task with a unit of measure of EA, plus each additional task in sequence to arrive at the total quantity for the entire project, not a particular work area.

02 87 16 13 Bird Excrement Removal (02 87 16)

02 87 16 13-0001 Bird Waste Removal (02 87 16 13)

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

02 87 16 13-0002	EA	Up To 10 SF Bird Waste Removal, Up To 3" Thickness	745.64
		<i>For Work In Restricted Working Space, Add</i>	223.69
02 87 16 13-0003	SF	>10 To 500 SF Bird Waste Removal, Up To 3" Thickness	12.43
		<i>For Work In Restricted Working Space, Add</i>	3.73
02 87 16 13-0004	SF	>500 To 2,500 SF Bird Waste Removal, Up To 3" Thickness	11.30
		<i>For Work In Restricted Working Space, Add</i>	3.39
02 87 16 13-0005	SF	>2,500 To 10,000 SF Bird Waste Removal, Up To 3" Thickness	10.27
		<i>For Work In Restricted Working Space, Add</i>	3.08
02 87 16 13-0006	SF	>10,000 SF Bird Waste Removal, Up To 3" Thickness	9.33
		<i>For Work In Restricted Working Space, Add</i>	2.80

02 87 19 Bio-Hazard and Infectious Disease Control Remediation (02 87)

02 87 19 00-0001 Temporary Barriers (02 87 19)

02 87 19 00-0002 Adjustable Barrier Panel System For Bio-Hazard And Infectious Disease Control (02 87 19 00-0001)

Note: Panels are opal or transparent. Includes self-leveling floor channel, 1/4" foam gasket to conform to ceiling, edge gaskets, grid clips, and cam locks.

02 87 19 00-0003	EA	4' Wide x 7'-8" To 10' High, Fire Rated Containment Panel Assembly (Edge Guard 4000)	1,028.47
02 87 19 00-0004	EA	3' Wide x 7'-8" To 10' High, Fire Rated Containment Panel Assembly (Edge Guard 4001)	976.40
02 87 19 00-0005	EA	2' Wide x 7'-8" To 10' High, Fire Rated Containment Panel Assembly (Edge Guard 4002)	768.11
02 87 19 00-0006	EA	2' Wide x 7'-8" To 10' High With High Efficiency Particulate Air (HEPA) Filtered Air Discharge Port, Fire Rated Containment Panel Assembly (Edge Guard 4002.1)	889.61
02 87 19 00-0007	EA	6" Wide x 7'-8" To 10' High, Fire Rated Containment Panel Assembly (Edge Guard 4005)	470.84
02 87 19 00-0008	EA	12" Wide x 7'-8" To 10' High, Fire Rated Containment Panel Assembly (Edge Guard 4006)	505.55
02 87 19 00-0009	EA	3' Wide x 7'-8" To 10' High, Fire Rated Containment Panel Assembly With 32" Door (Edge Guard 4010)	1,575.21
		Note: Includes a hydraulic closer and a lever style lockset standard.	
02 87 19 00-0010	EA	4' Wide x 7'-8" To 10' High, Fire Rated Containment Panel Assembly With 44" Door (Edge Guard 4003)	1,748.78
		Note: Includes a hydraulic closer and a lever style lockset standard.	
02 87 19 00-0011	EA	4'-4" Wide x 7'-8" To 10' High, Fire Rated Containment Panel Assembly With 48" Door (Edge Guard 4008)	2,095.92
		Note: Includes a hydraulic closer and a lever style lockset standard.	
02 87 19 00-0012	EA	7'-8" To 10' High, Hinged Corner Assembly (Edge Guard 4004)	345.55
02 87 19 00-0013	EA	7'-8" To 10' High, Outside Corner Post (Edge Guard 4007)	284.81
02 87 19 00-0014	EA	7'-8" To 10' High, "T" Post Corner Assembly (Edge Guard 4009)	284.81
02 87 19 00-0015	EA	Closure Strips (Edge Guard 3003)	19.27
		Note: To seal panels to existing walls	
02 87 19 00-0016	EA	Digital Differential Pressure Gauge Kit (Edge Guard 3005)	483.44

02 87 19 00-0017 Temporary Sheeting For Bio-Hazard And Infectious Disease Control (02 87 19 00-0001)

Note: Includes removal and disposal in approved landfill after use.

02 87 19 00-0018	SF	6 Mil Plastic Sheeting, Applied To Floors, For Bio-Hazard And Infectious Disease Control	0.59
02 87 19 00-0019	SF	6 Mil Plastic Sheeting, Applied To Walls, For Bio-Hazard And Infectious Disease Control	0.79
02 87 19 00-0020	SF	6 Mil Plastic Sheeting, Applied To Ceilings, For Bio-Hazard And Infectious Disease Control	1.06
02 87 19 00-0021	SF	6 Mil Plastic Fire Retardant, Anti-static Sheeting, Applied To Floors, For Bio-Hazard And Infectious Disease Control	0.70
02 87 19 00-0022	SF	6 Mil Plastic Fire Retardant, Anti-static Retardant Sheeting, Applied To Walls, For Bio-Hazard And Infectious Disease Control	0.90
02 87 19 00-0023	SF	6 Mil Plastic Fire Retardant, Anti-static Retardant Sheeting, Applied To Ceilings, For Bio-Hazard And Infectious Disease Control	1.17

02 87 19 00-0024 Temporary Floor Protection For Bio-Hazard And Infectious Disease Control (02 87 19 00-0001)

Note: Includes removal after use.

02 87 19 00-0025	SF	1/8" Thick, Masonite Temporary Floor Protection For Bio-Hazard And Infectious Disease Control	1.95
02 87 19 00-0026	SF	1/2" Thick, Plywood Temporary Floor Protection For Bio-Hazard And Infectious Disease Control	1.97
02 87 19 00-0027	SF	3/4" Thick, Plywood Temporary Floor Protection For Bio-Hazard And Infectious Disease Control	2.32

02 87 19 00-0028 Temporary Stud Wall For Bio-Hazard And Infectious Disease Control (02 87 19 00-0001)

Note: Includes removal after use.

02 87 19 00-0029	SF	1/2" Gypsum Board On One Side, Temporary Wood Stud Wall For Bio-Hazard And Infectious Disease Control	6.68
02 87 19 00-0030	SF	1/2" Gypsum Board On Both Sides, Temporary Wood Stud Wall For Bio-Hazard And Infectious Disease Control	9.25
02 87 19 00-0031	SF	5/8" Type Fire Rated Gypsum Board On One Side, Temporary Wood Stud Wall For Bio-Hazard And Infectious Disease Control	6.85
02 87 19 00-0032	SF	5/8" Type Fire Rated Gypsum Board On Both Sides, Temporary Wood Stud Wall For Bio-Hazard And Infectious Disease Control	9.58
02 87 19 00-0033	SF	6 Mil, Fire Retardant, Plastic Sheeting On One Side, Temporary Wood Stud Wall For Bio-Hazard And Infectious Disease Control	3.91

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 87 19 00-0034			Isolation Barriers For Bio-Hazard And Infectious Disease Control (02 87 19 00-0001)		
02 87 19 00-0035	GSF		Tent Construction Utilizing Two Layers Of 6 Mil Fire Rated Plastic Sheeting For Bio-Hazard And Infectious Disease Control 26.56 Note: Includes support frame of 2x4s or PVC piping (ground SF) up to 6' to construct stand-alone tents (floor, walls and ceiling) with airlock.	26.56	
02 87 19 00-0036	GSF		Relocate Tent Construction To Different Area 3.05	3.05	
02 87 19 00-0037			Plexiglass Barriers For Bio-Hazard And Infectious Disease Control (02 87 19 00-0001)		
02 87 19 00-0038	SF		3/8" Thick, Clear Acrylic Glazing (Plexiglas) For Bio-Hazard And Infectious Disease Control 22.29	22.29	
02 87 19 00-0039	SF		1/2" Thick, Clear Acrylic Glazing (Plexiglas) For Bio-Hazard And Infectious Disease Control 26.27	26.27	
02 87 19 00-0040	SF		3/4" Thick, Clear Acrylic Glazing (Plexiglas) For Bio-Hazard And Infectious Disease Control 36.91	36.91	
02 87 19 00-0041	PR		Install Pair Of 8" Diameter Glove Iris Port In Barrier For Bio-Hazard And Infectious Disease Control 1,475.38 Note: Excludes gloves.	1,475.38	
02 87 19 00-0042	PR		Pair Of 8" Diameter Economy Sleeved Gloves With Clamping Ring For Bio-Hazard And Infectious Disease Control 528.76 Note: For installation in glove iris port.	528.76	
02 87 19 00-0043	PR		Pair Of 8" Diameter Bellows Type Gloves With Clamping Ring For Bio-Hazard And Infectious Disease Control 842.54 Note: For installation in glove iris port.	842.54	
02 87 19 00-0044	EA		5-5/16" Diameter, Satin Anodized Aluminum, No-Draft Speak-Thru In Barrier For Bio-Hazard And Infectious Disease 154.59 Note: Includes gaskets and mounting screws for installation on glass from 1/4" (6 mm) to 1/2" (12 mm) thick. Require a minimum hole diameter of 2-1/4" (57 mm), and will cover holes up to 4-1/4" (108 mm). Recommended hole diameter is 3-1/2" (89 mm).	154.59	
02 87 19 00-0045			Temporary Portable And Mobile Trailers (02 87 19)		
02 87 19 00-0046			Trailer Delivery (02 87 19 00-0045)		
02 87 19 00-0047	EA		Deliver Trailer Within 25 Miles 1,205.07	1,205.07	
02 87 19 00-0048			Portable And Mobile Trailers, Purchase (02 87 19 00-0045)		
			Note: Includes cost to set-up, underpin, tie-downs, HVAC unit, lights, outlets, & phone jacks. Trailers shall have a 12' x 12' office area and 6' x 8' bathroom with sink, mirror, and water closet. Minimum of two pedestrian doors and a tinted/insulated 3' x 4' single hung window per 20 SF of wall area. Excludes connection of utilities.		
02 87 19 00-0049	EA		8' x 24' Mobile Trailer With Toilet, Purchase 12,937.46 For Tie-Downs, Add 128.53	12,937.46	
02 87 19 00-0050	EA		8' x 32' Mobile Trailer With Toilet, Purchase 18,275.64 For Tie-Downs, Add 128.53	18,275.64	
02 87 19 00-0051	EA		10' x 36' Mobile Trailer With Toilet, Purchase 26,073.38 For Tie-Downs, Add 128.53	26,073.38	
02 87 19 00-0052	EA		10' x 44' Mobile Trailer With Toilet, Purchase 32,578.63 For Tie-Downs, Add 128.53	32,578.63	
02 87 19 00-0053	EA		10' x 50' Mobile Trailer With Toilet, Purchase 37,037.93 For Tie-Downs, Add 128.53	37,037.93	
02 87 19 00-0054	EA		12' x 50' Mobile Trailer With Toilet, Purchase 38,939.29 For Tie-Downs, Add 128.53	38,939.29	
02 87 19 00-0055	EA		12' x 60' Mobile Trailer With Toilet, Purchase 43,327.53 For Tie-Downs, Add 128.53	43,327.53	
02 87 19 00-0056			Accessories For Portable And Mobile Trailers (02 87 19 00-0045)		
02 87 19 00-0057			Skirting (02 87 19 00-0056)		
			Note: Includes 2" x 4" wood framing 16" on center.		
02 87 19 00-0058	SF		1'-8" High Vinyl Covered Skirt 5.47	5.47	2.17
02 87 19 00-0059	SF		3' High Vinyl Covered Skirt 8.04	8.04	3.58
02 87 19 00-0060			Aluminum Modular Access Ramp (02 87 19 00-0056)		
			Note: Includes picketed guardrails, inside grabrails, legs and hardware.		
02 87 19 00-0061	EA		Up To 35" High, Aluminum Modular Access Ramp 3,784.31	3,784.31	41.56
02 87 19 00-0062			Aluminum Modular Stairs (02 87 19 00-0056)		
			Note: Excludes earthwork		
02 87 19 00-0063	EA		Aluminum Steps For Mobile Trailers 1,046.54	1,046.54	
02 87 19 00-0064			Decontamination Chambers For Bio-Hazard And Infectious Disease Control (02 87 19)		
			Note: Includes removal after use.		
02 87 19 00-0065	EA		Portable Personnel Decontamination Wash Facility (3 Stage) For Bio-Hazard And Infectious Disease Control 1,017.14 Note: Includes connection to negative air system.	1,017.14	
02 87 19 00-0066	EA		Portable Personnel Decontamination Wash Facility (5 Stage) For Bio-Hazard And Infectious Disease Control 1,199.10 Note: Includes connection to negative air system.	1,199.10	
02 87 19 00-0067	EA		Portable Waste Decontamination Unit For Bio-Hazard And Infectious Disease Control 623.19 Note: Includes connection to negative air system.	623.19	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 87 19 00-0068 Bio-Hazard And Infectious Disease Control Cleaning, Level 2 <small>(02 87 19)</small> Note: Includes worker personal protection equipment suites, gloves and masks. Level 1 Biohazard - Minor bacteria and viruses as well as non-infectious bacteria. Microbes are not known to cause disease in healthy hosts and pose minimal risk to workers and the environment. Level 2 Biohazard - Bacteria and viruses that cause mild disease or are difficult to contract. Microbes are typically indigenous and are associated with diseases of varying severity. They pose moderate risk to workers and the environment. Level 3 Biohazard - Microbes are indigenous or exotic and cause serious or potential lethal diseases through respiratory transmission. Disposal of materials used to wipe down surfaces in approved landfill after use. See CSI section 02 87 19 00-0138 for disposal of material into approved landfill.		
02 87 19 00-0069 Bio-Hazard And Infectious Disease Control Cleaning Mobilization <small>(02 87 19 00-0068)</small>		
02 87 19 00-0070 EA Bio-Hazard And Infectious Disease Control Mobilization And Set-Up 400.87 Note: Mobilization and set-up minimum for each site location.	400.87	
02 87 19 00-0071 Bio-Hazard And Infectious Disease Control Cleaning Of Surfaces <small>(02 87 19 00-0068)</small> Note: Includes electrostatic spraying of surfaces with mild bleach, wet mop/wipe, disinfect and high efficiency particulate air (HEPA) vacuum surfaces		
02 87 19 00-0072 CSF Cleaning Of Floors For Bio-Hazard And Infectious Disease Control With Mild Bleach Solution 29.73 For >25 To 50, Deduct -2.97 For >50 To 200, Deduct -5.94 For >200, Deduct -8.91 For Cleaning Surfaces With Goldshield® GS5, Add 14.46 For Level 1 Biohazard Cleaning, Deduct -5.94 For Level 3 Biohazard Cleaning, Add 9.80	29.73	
02 87 19 00-0073 CSF Cleaning Of Walls For Bio-Hazard And Infectious Disease Control With Mild Bleach Solution 34.96 For >25 To 50, Deduct -3.49 For >50 To 200, Deduct -6.99 For >200, Deduct -10.48 For Cleaning Surfaces With Goldshield® GS5, Add 14.46 For Level 1 Biohazard Cleaning, Deduct -6.99 For Level 3 Biohazard Cleaning, Add 11.53	34.96	
02 87 19 00-0074 CSF Cleaning Of Ceilings For Bio-Hazard And Infectious Disease Control With Mild Bleach Solution 39.77 For >25 To 50, Deduct -3.97 For >50 To 200, Deduct -7.95 For >200, Deduct -11.92 For Cleaning Surfaces With Goldshield® GS5, Add 14.46 For Level 1 Biohazard Cleaning, Deduct -7.95 For Level 3 Biohazard Cleaning, Add 13.11	39.77	
02 87 19 00-0075 CSF Cleaning Of Countertops For Bio-Hazard And Infectious Disease Control With Mild Bleach Solution 32.42 For Cleaning Surfaces With Goldshield® GS5, Add 14.46 For >5 To 10, Deduct -1.62 For >10 To 50, Deduct -3.24 For >50, Deduct -6.48 For Level 1 Biohazard Cleaning, Deduct -6.48 For Level 3 Biohazard Cleaning, Add 10.69	32.42	
02 87 19 00-0076 CSF Cleaning Of Other Surfaces For Bio-Hazard And Infectious Disease Control With Mild Bleach Solution 41.15 For >25 To 50, Deduct -4.11 For >50 To 200, Deduct -8.22 For >200, Deduct -12.34 For Cleaning Surfaces With Goldshield® GS5, Add 14.46 For Level 1 Biohazard Cleaning, Deduct -8.22 For Level 3 Biohazard Cleaning, Add 13.57	41.15	
02 87 19 00-0077 Bio-Hazard And Infectious Disease Control Cleaning Of Equipment And Materials <small>(02 87 19 00-0068)</small> Note: Includes spraying of surfaces with mild bleach, wet mop/wipe and disinfect		
02 87 19 00-0078 EA Cleaning Of Plumbing Fixture For Bio-Hazard And Infectious Disease Control With Mild Bleach Solution 76.81 For Level 1 Biohazard Cleaning, Deduct -15.36 For Level 3 Biohazard Cleaning, Add 25.34 For Cleaning Surfaces With Goldshield® GS5, Add 7.23	76.81	
02 87 19 00-0079 EA Cleaning Of Restroom Accessory For Bio-Hazard And Infectious Disease Control With Mild Bleach Solution 35.25 For Level 1 Biohazard Cleaning, Deduct -7.04 For Level 3 Biohazard Cleaning, Add 11.62 For Cleaning Surfaces With Goldshield® GS5, Add 4.82	35.25	
02 87 19 00-0080 EA Cleaning Of Kitchen Appliance For Bio-Hazard And Infectious Disease Control With Mild Bleach Solution 123.74 For Level 1 Biohazard Cleaning, Deduct -24.74 For Level 3 Biohazard Cleaning, Add 40.82 For Cleaning Surfaces With Goldshield® GS5, Add 7.23	123.74	
02 87 19 00-0081 EA Cleaning Of Electrical Switch/Receptacle For Bio-Hazard And Infectious Disease Control With Mild Bleach Solution 7.64 For Level 1 Biohazard Cleaning, Deduct -1.52 For Level 3 Biohazard Cleaning, Add 2.51 For Cleaning Surfaces With Goldshield® GS5, Add 1.45	7.64	
02 87 19 00-0082 EA Cleaning Of WorkStation, Exterior Wipe For Bio-Hazard And Infectious Disease Control With Mild Bleach Solution Clean-up 114.07 Note: Includes desk, chair, computer, monitor(s), keyboard, mouse, lamp, drawers For Level 1 Biohazard Cleaning, Deduct -22.81 For Level 3 Biohazard Cleaning, Add 37.63 For Cleaning Surfaces With Goldshield® GS5, Add 7.23	114.07	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 87 19 00-0083	EA		Cleaning Of Knobs, Latches, And Locks For Bio-Hazard And Infectious Disease Control With Mild Bleach Solution Clean-up.....	12.19	
			<i>For Level 1 Biohazard Cleaning, Deduct</i>	-2.43	
			<i>For Level 3 Biohazard Cleaning, Add</i>	4.01	
			<i>For Cleaning Surfaces With Goldshield® GS5, Add</i>	1.45	
02 87 19 00-0084			Bio-Hazard And Infectious Disease Control Cleaning Of Ductwork (02 87 19 00-0068)		
02 87 19 00-0085	LF		Up To 2 SF Cross Section, Clean Supply/Return Ductwork For Bio-Hazard And Infectious Disease Control Cleaning.....	4.48	
			<i>For Level 1 Biohazard Cleaning, Deduct</i>	-0.89	
			<i>For Level 3 Biohazard Cleaning, Add</i>	1.47	
02 87 19 00-0086	LF		>2 SF To 4 SF Cross Section, Clean Supply/Return Ductwork For Bio-Hazard And Infectious Disease Control Cleaning.....	5.63	
			<i>For Level 1 Biohazard Cleaning, Deduct</i>	-1.11	
			<i>For Level 3 Biohazard Cleaning, Add</i>	1.84	
02 87 19 00-0087	LF		>4 SF To 8 SF Cross Section, Clean Supply/Return Ductwork For Bio-Hazard And Infectious Disease Control Cleaning.....	7.54	
			<i>For Level 1 Biohazard Cleaning, Deduct</i>	-1.48	
			<i>For Level 3 Biohazard Cleaning, Add</i>	2.45	
02 87 19 00-0088	LF		>8 SF Cross Section, Clean Supply/Return Ductwork For Bio-Hazard And Infectious Disease Control Cleaning.....	10.68	
			<i>For Level 1 Biohazard Cleaning, Deduct</i>	-2.09	
			<i>For Level 3 Biohazard Cleaning, Add</i>	3.45	
02 87 19 00-0089	EA		Clean Duct Coil For Bio-Hazard And Infectious Disease Control Cleaning.....	200.46	
			<i>For Level 1 Biohazard Cleaning, Deduct</i>	-40.09	
			<i>For Level 3 Biohazard Cleaning, Add</i>	66.14	
02 87 19 00-0090	SF		Clean Duct Dampers And Vane Sets For Bio-Hazard And Infectious Disease Control Cleaning.....	13.95	
			<i>For Level 1 Biohazard Cleaning, Deduct</i>	-2.78	
			<i>For Level 3 Biohazard Cleaning, Add</i>	4.59	
02 87 19 00-0091	EA		Clean Fan Coil Unit (FCU) Or Variable Air Volume (VAV) Unit For Bio-Hazard And Infectious Disease Control Cleaning.....	133.65	
			<i>For Level 1 Biohazard Cleaning, Deduct</i>	-26.72	
			<i>For Level 3 Biohazard Cleaning, Add</i>	44.09	
02 87 19 00-0092	EA		Clean Air Handling Unit Fan And Coil For Bio-Hazard And Infectious Disease Control Cleaning.....	400.90	
			<i>For Level 1 Biohazard Cleaning, Deduct</i>	-80.17	
			<i>For Level 3 Biohazard Cleaning, Add</i>	132.29	
02 87 19 00-0093	EA		Clean Grille/Diffuser/Register For Bio-Hazard And Infectious Disease Control Cleaning..... Note: Includes removal and reinstallation.	33.43	
			<i>For Level 1 Biohazard Cleaning, Deduct</i>	-6.68	
			<i>For Level 3 Biohazard Cleaning, Add</i>	11.02	
02 87 19 00-0094	SF		Apply Sporidicin Disinfectant To Ductwork And Surfaces After Cleaning For Bio-Hazard And Infectious Disease Control Cleaning.....	0.60	
			<i>For Level 1 Biohazard Cleaning, Deduct</i>	-0.11	
			<i>For Level 3 Biohazard Cleaning, Add</i>	0.18	
02 87 19 00-0095	SF		Apply Goldshield® GS5 Anti-microbial Agent To Ductwork And Surfaces After Cleaning For Bio-Hazard And Infectious Disease Control Cleaning.....	0.68	
			<i>For Level 1 Biohazard Cleaning, Deduct</i>	-0.11	
			<i>For Level 3 Biohazard Cleaning, Add</i>	0.18	
02 87 19 00-0096			Bio-Hazard And Infectious Disease Control Equipment Rental (02 87 19)		
			Note: Used in the performance of time and material projects. Not used in conjunction with tasks in the Bio-Hazard And Infectious Control Clean Up sections.		
02 87 19 00-0097	DAY		Up To 5,000 CFM Portable Air Scrubber For Bio-Hazard And Infectious Disease Control Clean-up.....	163.58	
02 87 19 00-0098	WK		Up To 5,000 CFM Portable Air Scrubber For Bio-Hazard And Infectious Disease Control Clean-up.....	696.73	
02 87 19 00-0099	MO		Up To 5,000 CFM Portable Air Scrubber For Bio-Hazard And Infectious Disease Control Clean-up.....	1,950.84	
02 87 19 00-0100	DAY		Industrial High Efficiency Particulate Air (HEPA) Vacuum For Bio-Hazard And Infectious Disease Control Clean- up.....	154.91	
02 87 19 00-0101	WK		Industrial High Efficiency Particulate Air (HEPA) Vacuum For Bio-Hazard And Infectious Disease Control Clean- up.....	426.01	
02 87 19 00-0102	MO		Industrial High Efficiency Particulate Air (HEPA) Vacuum For Bio-Hazard And Infectious Disease Control Clean- up.....	1,161.83	
02 87 19 00-0103	DAY		Zip Wall Poles (Per 2 Poles) For Bio-Hazard And Infectious Disease Control Clean-up.....	45.56	
02 87 19 00-0104	WK		Zip Wall Poles (Per 2 Poles) For Bio-Hazard And Infectious Disease Control Clean-up.....	125.30	
02 87 19 00-0105	MO		Zip Wall Poles (Per 2 Poles) For Bio-Hazard And Infectious Disease Control Clean-up.....	341.72	
02 87 19 00-0106	DAY		Up To 2,000 CFM Portable Negative Air Machine With Pre-Filter And High Efficiency Particulate Air (HEPA) Filter For Bio-Hazard And Infectious Disease Control Clean-up.....	120.46	
02 87 19 00-0107	WK		Up To 2,000 CFM Portable Negative Air Machine With Pre-Filter And High Efficiency Particulate Air (HEPA) Filter For Bio-Hazard And Infectious Disease Control Clean-up.....	494.73	
02 87 19 00-0108	MO		Up To 2,000 CFM Portable Negative Air Machine With Pre-Filter And High Efficiency Particulate Air (HEPA) Filter For Bio-Hazard And Infectious Disease Control Clean-up.....	1,494.94	
02 87 19 00-0109	EA		High Efficiency Particulate Air (HEPA) Filter, 99.99% Efficient At 0.3 Micron For Negative Air Machine For Bio- Hazard And Infectious Disease Control Clean-up..... Note: Required if over 800 hours operation.	199.93	
02 87 19 00-0110	DAY		20' x 20' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up.....	432.03	
02 87 19 00-0111	WK		20' x 20' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up.....	864.07	
02 87 19 00-0112	MO		20' x 20' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up.....	1,728.13	
02 87 19 00-0113	DAY		20' x 40' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up.....	576.04	
02 87 19 00-0114	WK		20' x 40' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up.....	1,152.09	
02 87 19 00-0115	MO		20' x 40' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up.....	2,304.18	
02 87 19 00-0116	DAY		20' x 60' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up.....	972.69	
02 87 19 00-0117	WK		20' x 60' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up.....	1,945.37	
02 87 19 00-0118	MO		20' x 60' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up.....	3,890.75	
02 87 19 00-0119	DAY		20' x 80' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up.....	1,296.92	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 87 19 00-0120 WK 20' x 80' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up.....	2,593.83	
02 87 19 00-0121 MO 20' x 80' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up.....	5,187.66	
02 87 19 00-0122 DAY 20' x 100' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up.....	1,621.14	
02 87 19 00-0123 WK 20' x 100' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up.....	3,242.29	
02 87 19 00-0124 MO 20' x 100' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up.....	6,484.58	
02 87 19 00-0125 EA Set-Up 20' x 20' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up..... Note: Includes staking down tent.	122.26	
02 87 19 00-0126 EA Set-Up 20' x 40' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up..... Note: Includes staking down tent.	244.53	
02 87 19 00-0127 EA Set-Up 20' x 60' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up..... Note: Includes staking down tent.	733.58	
02 87 19 00-0128 EA Set-Up 20' x 80' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up..... Note: Includes staking down tent.	1,467.16	
02 87 19 00-0129 EA Set-Up 20' x 100' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up..... Note: Includes staking down tent.	2,445.27	
02 87 19 00-0130 DAY Portable Dual Sink Wash Station For Bio-Hazard And Infectious Disease Control Clean-up.....	94.47	
02 87 19 00-0131 WK Portable Dual Sink Wash Station For Bio-Hazard And Infectious Disease Control Clean-up.....	259.80	
02 87 19 00-0132 MO Portable Dual Sink Wash Station For Bio-Hazard And Infectious Disease Control Clean-up.....	708.53	
02 87 19 00-0133 Bio-Hazard And Infectious Disease Control Hauling By Truck (02 87 19) Note: Includes driver and equipment, ten (10) to fifteen (15) minutes load time, time for travel, dump time and return (roundtrip). The task quantity is the number of miles to the disposal site/transfer station (one-way mileage) using an appropriately sized truck.		
02 87 19 00-0134 EA Hauling With 2-3 CY Pick-up Truck, Van Or Trailer, Up To 15 Miles For Bio-Hazard And Infectious Disease Control Clean Up..... Note: Each first 15 miles per trip	106.72	
For Each Additional Mile Over First 15 Miles, Add Per Mile	1.33	
02 87 19 00-0135 EA Hauling With 6 To 8 CY Dump Truck, Up To 15 Miles For Bio-Hazard And Infectious Disease Control Clean Up..... Note: Each first 15 miles per trip	174.12	
For Each Additional Mile Over First 15 Miles, Add Per Mile	2.18	
02 87 19 00-0136 EA Hauling With 10 To 12 CY Dump Truck, Up To 15 Miles For Bio-Hazard And Infectious Disease Control Clean Up..... Note: Each first 15 miles per trip	180.01	
For Each Additional Mile Over First 15 Miles, Add Per Mile	2.25	
02 87 19 00-0137 EA Hauling With 16' To 20', Box Or Flat Bed Truck, Up To 15 Miles For Bio-Hazard And Infectious Disease Control Clean Up..... Note: Each first 15 miles per trip	178.54	
For Each Additional Mile Over First 15 Miles, Add Per Mile	2.23	
02 87 19 00-0138 Bio-Hazard And Infectious Disease Control Disposal (02 87 19) Note: Used in the performance of time and material projects. Not used in conjunction with tasks in the Bio-Hazard And Infectious Control Clean Up sections.		
02 87 19 00-0139 CY Bio-Hazard And Infectious Disease Control Landfill Dump Fee.....	118.56	
02 87 19 00-0140 BLU-MED Response Systems® (BLU-MED) Deployable Medical Facilities™ and Emergency Shelters (02 87 19) Note: Includes delivery and set-up of facility, electrical, lighting and HVAC. Excludes medical equipment.		
02 87 19 00-0141 EA 20' x 32.5' Medical Shelter with 1-phase electrical, 60 Hertz (BLU-MED BM-2032.5-MS/1P).....	44,973.14	
02 87 19 00-0142 EA 7' x 8' Entry Vestibule (BLU-MED BM-MS-VEST).....	4,323.42	
02 87 19 00-0143 EA Vestibule End Panel with Bump Thru Door (BLU-MED BM-7x8-VEP04).....	7,153.52	
02 87 19 00-0144 SF Sub Flooring For Medical Shelter (AKS-AB846).....	6.68	
02 87 19 00-0145 EA Upgrade To Large Roto-Mold Container, Blue (AK-ULC-5).....	1,963.48	
02 87 19 00-0146 EA Environmental Control Unit-5 Ton, 60 Hertz, Blue (AK-ECU-5T-5).....	32,159.53	
02 87 19 00-0147 EA 3' ECU to Generator Pigtail, 60 Hertz (AKS-AC915).....	1,120.94	
02 87 19 00-0148 EA Negative Pressure Isolation (NPI) System (AK-NPIS-5)..... Note: Including: (1) Germicidal/high efficiency particulate air (HEPA) Filter Unit; (1) Monitor/Alarm with Motorized Damper; (1) Isolation Partition for 20'-Wide Shelter; (1) NPI Accessories Case	50,618.56	
02 87 19 00-0149 EA 6' Step Ladder (AKS-AC595).....	305.31	
02 87 19 00-0150 EA 10 Lbs Sledgehammer (AKS-AA268).....	92.51	
02 87 19 00-0151 Bio-Hazard And Infectious Disease Time And Material Tasks (02 87 19) Note: Used in the performance of time and material projects. Not used in conjunction with tasks in the Bio-Hazard And Infectious Control Clean Up sections.		
02 87 19 00-0152 Bio-Hazard And Infectious Disease Control Labor (02 87 19 00-0151) Note: Used in the performance of time and material projects. Not used in conjunction with tasks in the Bio-Hazard And Infectious Control Clean Up sections.		
02 87 19 00-0153 HR General Laborer For Bio-Hazard And Infectious Disease Control Clean Up.....	100.51	
02 87 19 00-0154 HR Skilled Tradesman For Bio-Hazard And Infectious Disease Control Clean Up.....	150.92	
02 87 19 00-0155 HR Biohazard Technician For Bio-Hazard And Infectious Disease Control Clean Up.....	101.65	
02 87 19 00-0156 HR Biohazard Supervisor For Bio-Hazard And Infectious Disease Control Clean Up.....	122.22	
02 87 19 00-0157 HR Project Manager For Bio-Hazard And Infectious Disease Control Clean Up.....	134.42	
02 87 19 00-0158 Bio-Hazard And Infectious Control Clean Up Personal Protection Equipment (02 87 19 00-0151) Note: Used in the performance of time and material projects. Not used in conjunction with tasks in the Bio-Hazard And Infectious Control Clean Up sections.		
02 87 19 00-0159 EA Tyvek Coveralls For Bio-Hazard And Infectious Control Clean Up Personal Protection Equipment.....	15.08	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 87 19 00-0160 EA Tyvek Coveralls With Hood, Boots, Elastic Wrists And Ankles For Bio-Hazard And Infectious Control Clean Up Personal Protection Equipment	23.49	
02 87 19 00-0161 PR Polycarbonate Lens Safety Goggles For Bio-Hazard And Infectious Control Clean Up Personal Protection Equipment	15.22	
02 87 19 00-0162 EA Dual Cartridge Half-Mask Respirator For Bio-Hazard And Infectious Control Clean Up Personal Protection Equipment	124.85	
02 87 19 00-0163 EA Cartridge - Respirator For Bio-Hazard And Infectious Control Clean Up Personal Protection Equipment	52.70	
02 87 19 00-0164 EA Full Face Respirator For Bio-Hazard And Infectious Control Clean Up Personal Protection Equipment	380.90	
Note: Respirator Connection Type: Bayonet, 4 pt. Full Face Suspension		
02 87 19 00-0165 EA 14-1/2" Width x 9" Height Polycarbonate Visor Faceshield For Bio-Hazard And Infectious Control Clean Up Personal Protection Equipment	52.07	
Note: Includes basic impact ratchet headgear and faceshield safety system. ANSI Z87.1-2010		
02 87 19 00-0166 EA 19" Width x 11" Height Polycarbonate Visor Attachment To Hardhat For Bio-Hazard And Infectious Control Clean Up Personal Protection Equipment.....	94.60	
Note: Includes clear polycarbonate crown and chin guard system for hardhat. The chin guard extends below the chin, the shield extends passed the ear, and the crown extends over the forehead to the front of the hardhat. ANSI Z87.1-2015. Excludes hardhat.		
02 87 19 00-0167 BOX Box of 100, 5 Mil, Disposable Latex Gloves For Bio-Hazard And Infectious Control Clean Up Personal Protection Equipment	27.34	
02 87 19 00-0168 EA Gloves - Rubber (Heavy Duty) For Bio-Hazard And Infectious Control Clean Up Personal Protection Equipment	23.35	
02 87 19 00-0169 EA Belt-Mounted, Universal Mask, Powered Air Purifying Respirator (PAPR) System Kit For Bio-Hazard And Infectious Control Clean Up Personal Protection Equipment.....	2,546.01	
Note: Kit includes NIOSH Approved with Draeger DHR 7000, C420 Blower, Single-Speed Toggle, Battery - LiSO2 (BA5800/U), C420 Breathing Tube Assembly with 75 Degrees Swivel, Decon Belt Assembly 70" x 2", C420 Airflow Indicator (Afi), Micronel Safety M95 Cartridge (2), Molded Case, Black, CBRN Breathing Tube Assembly		
02 87 19 00-0170 Bio-Hazard And Infectious Disease Control Expendables <small>(02 87 19 00-0151)</small>		
Note: Used in the performance of time and material projects. Not used in conjunction with tasks in the Bio-Hazard And Infectious Control Clean Up sections. See CSI section 01 56 16 00-0001 for temporary sheeting, 01 56 16 00-0031 for temporary walls.		
02 87 19 00-0171 GAL Bleach For Bio-Hazard And Infectious Disease Control Clean-up	11.76	
02 87 19 00-0172 EA N95 Masks For Bio-Hazard And Infectious Disease Control Clean-up	4.19	
02 87 19 00-0173 GAL Disinfectant/Anti-microbial For Bio-Hazard And Infectious Disease Control Clean Up	115.22	
02 87 19 00-0174 GAL Goldshield® GS5 Anti-microbial Concentrate For Bio-Hazard And Infectious Disease Control Clean-up	346.92	
Note: Mix 1 gallon in 5 gallons of water to produce 6 gallons of ready-to-use product. Use on any surface for bacterial inhibition up to 30 days		
02 87 19 00-0175 QT Hand Sanitizer For Bio-Hazard And Infectious Disease Control Clean-up.....	11.62	
02 87 19 00-0176 EA Sponges - Dry For Bio-Hazard And Infectious Disease Control Clean-up	5.97	
02 87 19 00-0177 ROL Tape - Duct, 2" x 50 YD For Bio-Hazard And Infectious Disease Control Clean-up	15.00	
02 87 19 00-0178 EA UV Mini Light, Handheld For Bio-Hazard And Infectious Disease Control Clean-up	75.80	
02 87 19 00-0179 ROL Visqueen 1 Mil, 12' x 400', For Bio-Hazard And Infectious Disease Control Clean-up	60.44	
02 87 19 00-0180 LB Wipes, Terry Cloth 14" x 17" For Bio-Hazard And Infectious Disease Control Clean-up	8.48	
02 87 19 00-0181 EA Wyp-Alls, Case, 160 Wipes For Bio-Hazard And Infectious Disease Control Clean-up.....	18.67	
02 87 19 00-0182 ROL 6 Mil, 55 Gallon Trash Bags, 50/Roll For Bio-Hazard And Infectious Disease Control Clean Up	186.07	
02 89 Hazmat Ancillary Tasks and Support <small>(02 89)</small>		
02 89 00 00-0001 Barriers And Protection <small>(02 89)</small>		
Note: Includes removal and disposal after use.		
02 89 00 00-0002 Isolation Barriers <small>(02 89 00 00-0001)</small>		
See CSI section 01 56 16 00-0031 for temporary stud walls.		
02 89 00 00-0003 Cleaning Surfaces <small>(02 89 00 00-0001)</small>		
Note: Other surfaces outside contamination area but not contaminated by, or part of removal.		
02 89 00 00-0004 SF Up To 100 SF, Clean Non-Asbestos Surface	1.83	
02 89 00 00-0005 SF >100 To 500 SF, Clean Non-Asbestos Surface	1.29	
02 89 00 00-0006 SF >500 To 1,000 SF, Clean Non-Asbestos Surface	0.84	
02 89 00 00-0007 SF >1,000 SF, Clean Non-Asbestos Surface	0.66	
02 89 00 00-0008 Hazmat Containment Construction Plastic Sheeting <small>(02 89 00 00-0001)</small>		
02 89 00 00-0009 SF 6 Mil Plastic Sheeting, Applied To Floors, Hazmat Containment Construction.....	0.45	
02 89 00 00-0010 SF 6 Mil Plastic Sheeting, Applied To Walls, Hazmat Containment Construction	0.60	
02 89 00 00-0011 SF 6 Mil Plastic Sheeting, Applied To Ceilings, Hazmat Containment Construction	0.80	
02 89 00 00-0012 SF 6 Mil Plastic Fire Retardant, Anti-static Sheeting, Applied To Floors, Hazmat Containment Construction.....	0.73	
02 89 00 00-0013 SF 6 Mil Plastic Fire Retardant, Anti-static Retardant Sheeting, Applied To Walls, Hazmat Containment Construction	0.92	
02 89 00 00-0014 SF 6 Mil Plastic Fire Retardant, Anti-static Retardant Sheeting, Applied To Ceilings, Hazmat Containment Construction	1.21	
02 89 00 00-0015 Decontamination Chambers <small>(02 89)</small>		
Note: Includes removal after use.		
02 89 00 00-0016 EA 3 Stage Portable Personnel Decontamination Wash Facility	1,031.90	
Note: Includes connection to negative air system.		
02 89 00 00-0017 EA 5 Stage Portable Personnel Decontamination Wash Facility	1,216.84	
Note: Includes connection to negative air system.		
02 89 00 00-0018 EA Portable Waste Decontamination Unit	635.00	
Note: Includes connection to negative air system.		
<i>For Dismantling And Relocation To A Different Area, Add</i>	412.73	



Existing Conditions	02	02
Facility Remediation	02 80	
Hazmat Ancillary Tasks and Support	02 89	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
------------------------------	---------------------------	-------------------------

02 90 Disaster Recovery ⁽⁰²⁾

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

02 90 50 Cleaning and Disaster Clean-up ^(02 90)

02 90 50 00-0001 Non-Mold Contaminated Wet Material Removal ^(02 90 50)

Note: For materials not requiring mold abatement.

02 90 50 00-0002	SY	Wet Broadloom Carpet Removal For Disaster Clean-up	24.79
02 90 50 00-0003	SY	Wet Carpet Tile Removal For Disaster Clean-up	6.03
02 90 50 00-0004	SF	Wet Batt Insulation Removal For Disaster Clean-up	0.50
02 90 50 00-0005	SF	Wet Ceiling Tile Removal For Disaster Clean-up	0.60
02 90 50 00-0006	SF	Single Layer, Wet Gypsum Board Removal For Disaster Clean-up	0.59
02 90 50 00-0007	SF	Double Layer, Wet Gypsum Board Removal For Disaster Clean-up	0.92

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

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

02 90 50 00-0009 Clean Furnishings ^(02 90 50 00-0008)

02 90 50 00-0010	EA	Office Equipment, Exterior Wipe For Disaster Clean-up	27.90
		<i>For Medium Clean, Add</i>	11.72
		<i>For Heavy Clean, Add</i>	36.27
02 90 50 00-0011	SF	Bookcase (Per SF Of Face Area), Light Clean For Disaster Clean-up	1.55
		<i>For Medium Clean, Add</i>	0.65
		<i>For Heavy Clean, Add</i>	2.02
02 90 50 00-0012	LF	Shelving, Light Clean For Disaster Clean-up	2.79
		<i>For Medium Clean, Add</i>	1.17
		<i>For Heavy Clean, Add</i>	3.63
02 90 50 00-0013	EA	Plastic Or Metal Chair, Light Clean For Disaster Clean-up	8.06
		<i>For Medium Clean, Add</i>	3.39
		<i>For Heavy Clean, Add</i>	10.48
02 90 50 00-0014	EA	Upholstered Chair, Light Clean For Disaster Clean-up	26.04
		<i>For Medium Clean, Add</i>	10.94
		<i>For Heavy Clean, Add</i>	33.85
02 90 50 00-0015	EA	Upholstered Sofa, Light Clean For Disaster Clean-up	160.58
		<i>For Medium Clean, Add</i>	67.44
		<i>For Heavy Clean, Add</i>	208.75
02 90 50 00-0016	EA	Desk, Light Clean For Disaster Clean-up	32.87
		<i>For Medium Clean, Add</i>	13.81
		<i>For Heavy Clean, Add</i>	42.73
02 90 50 00-0017	EA	Table, Light Clean For Disaster Clean-up	31.00
		<i>For Medium Clean, Add</i>	13.02
		<i>For Heavy Clean, Add</i>	40.30
02 90 50 00-0018	EA	Two Drawer File Cabinet, Light Clean For Disaster Clean-up	6.80
		<i>For Medium Clean, Add</i>	2.86
		<i>For Heavy Clean, Add</i>	8.84
02 90 50 00-0019	EA	Four Drawer File Cabinet, Light Clean For Disaster Clean-up	8.70
		<i>For Medium Clean, Add</i>	3.65
		<i>For Heavy Clean, Add</i>	11.31
02 90 50 00-0020	LF	Base Cabinet, Exterior Wipe, Light Clean For Disaster Clean-up	7.13
		<i>For Medium Clean, Add</i>	2.99
		<i>For Heavy Clean, Add</i>	9.27
02 90 50 00-0021	LF	Base Cabinet, Exterior And Interior Wipe, Light Clean For Disaster Clean-up	13.95
		<i>For Medium Clean, Add</i>	5.86
		<i>For Heavy Clean, Add</i>	18.14
02 90 50 00-0022	LF	Wall Cabinet, Exterior Wipe, Light Clean For Disaster Clean-up	7.13
		<i>For Medium Clean, Add</i>	2.99
		<i>For Heavy Clean, Add</i>	9.27
02 90 50 00-0023	LF	Wall Cabinet, Exterior And Interior Wipe, Light Clean For Disaster Clean-up	12.41
		<i>For Medium Clean, Add</i>	5.21
		<i>For Heavy Clean, Add</i>	16.13
02 90 50 00-0024	EA	Picture Frame, Glass And Back, Light Clean For Disaster Clean-up	2.97
		<i>For Medium Clean, Add</i>	1.25
		<i>For Heavy Clean, Add</i>	3.86
02 90 50 00-0025 Clean Hard Surfaces ^(02 90 50 00-0008)			
02 90 50 00-0026	LF	Wood, Vinyl Or Rubber Baseboard, Light Clean For Disaster Clean-up	0.41
		<i>For Medium Clean, Add</i>	0.17
		<i>For Heavy Clean, Add</i>	0.53
02 90 50 00-0027	EA	Door And Hardware (Per Side), Light Clean For Disaster Clean-up	5.27
		<i>For Medium Clean, Add</i>	2.21
		<i>For Heavy Clean, Add</i>	6.85
02 90 50 00-0028	EA	Detailed Door And Hardware (Per Side), Light Clean For Disaster Clean-up	5.97
		<i>For Medium Clean, Add</i>	2.51
		<i>For Heavy Clean, Add</i>	7.76
02 90 50 00-0029	SF	Overhead Door, Light Clean For Disaster Clean-up	0.42
		<i>For Medium Clean, Add</i>	0.18
		<i>For Heavy Clean, Add</i>	0.55

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 90 50 00-0030 SF Mirror, Light Clean For Disaster Clean-up	0.31	
For Medium Clean, Add	0.13	
For Heavy Clean, Add	0.40	
02 90 50 00-0031 SF Window, Light Clean For Disaster Clean-up	0.91	
For Medium Clean, Add	0.38	
For Heavy Clean, Add	1.18	
02 90 50 00-0032 LF Handrail, Light Clean For Disaster Clean-up	0.81	
For Medium Clean, Add	0.34	
For Heavy Clean, Add	1.05	
02 90 50 00-0033 LF Bumper Rail, Light Clean For Disaster Clean-up	0.44	
For Medium Clean, Add	0.18	
For Heavy Clean, Add	0.57	
02 90 50 00-0034 SF Hard Floor, Light Clean For Disaster Clean-up	0.36	
For Medium Clean, Add	0.15	
For Heavy Clean, Add	0.47	
02 90 50 00-0035 SF Carpet, Light Clean For Disaster Clean-up	0.37	
For Medium Clean, Add	0.16	
For Heavy Clean, Add	0.48	
02 90 50 00-0036 SF Hard Ceiling, Light Clean For Disaster Clean-up	0.28	
For Medium Clean, Add	0.12	
For Heavy Clean, Add	0.36	
02 90 50 00-0037 SF Suspended Ceiling, Tile And Grid, Light Clean For Disaster Clean-up	0.31	
For Medium Clean, Add	0.13	
For Heavy Clean, Add	0.40	
02 90 50 00-0038 SF Ceramic Tile Wall, Light Clean For Disaster Clean-up	0.26	
For Medium Clean, Add	0.11	
For Heavy Clean, Add	0.34	
02 90 50 00-0039 SF Wall, Light Clean For Disaster Clean-up	0.19	
For Medium Clean, Add	0.08	
For Heavy Clean, Add	0.25	
02 90 50 00-0040 SF Masonry Wall, Light Clean For Disaster Clean-up	0.26	
For Medium Clean, Add	0.11	
For Heavy Clean, Add	0.34	
02 90 50 00-0041 EA Up To 24 SF Area Rug, Off-Site Cleaning, Light Clean For Disaster Clean-up	65.38	
Note: Includes removal from site, cleaning, and return.		
For Medium Clean, Add	27.46	
For Heavy Clean, Add	84.99	
02 90 50 00-0042 EA >24 To 96 SF Area Rug, Off-Site Cleaning, Light Clean For Disaster Clean-up	81.73	
Note: Includes removal from site, cleaning, and return.		
For Medium Clean, Add	34.33	
For Heavy Clean, Add	106.25	
02 90 50 00-0043 EA >96 To 140 SF Area Rug, Off-Site Cleaning, Light Clean For Disaster Clean-up	98.07	
Note: Includes removal from site, cleaning, and return.		
For Medium Clean, Add	41.19	
For Heavy Clean, Add	127.49	
02 90 50 00-0044 EA >140 To 216 SF Area Rug, Off-Site Cleaning, Light Clean For Disaster Clean-up	114.42	
For Medium Clean, Add	48.06	
For Heavy Clean, Add	148.75	
02 90 50 00-0045 Clean Window Treatments (02 90 50 00-0008)		
02 90 50 00-0046 SF Window Blind, Light Clean For Disaster Clean-up	0.71	
For Medium Clean, Add	0.30	
For Heavy Clean, Add	0.92	
02 90 50 00-0047 EA Up To 6' Long Drapery (Per Pleat), Light Clean For Disaster Clean-up	1.45	
For Medium Clean, Add	0.61	
For Heavy Clean, Add	1.89	
02 90 50 00-0048 EA Up To 6' Long Lined Drapery (Per Pleat), Light Clean For Disaster Clean-up	1.68	
For Medium Clean, Add	0.71	
For Heavy Clean, Add	2.18	
02 90 50 00-0049 EA >6' To 8' Drapery (Per Pleat), Light Clean For Disaster Clean-up	1.52	
For Medium Clean, Add	0.64	
For Heavy Clean, Add	1.98	
02 90 50 00-0050 EA >6' To 8' Lined Drapery (Per Pleat), Light Clean For Disaster Clean-up	1.75	
For Medium Clean, Add	0.74	
For Heavy Clean, Add	2.28	
02 90 50 00-0051 EA >8' To 10' Drapery (Per Pleat), Light Clean For Disaster Clean-up	1.87	
For Medium Clean, Add	0.79	
For Heavy Clean, Add	2.43	
02 90 50 00-0052 EA >8' To 10' Lined Drapery (Per Pleat), Light Clean For Disaster Clean-up	2.15	
For Medium Clean, Add	0.90	
For Heavy Clean, Add	2.80	
02 90 50 00-0053 Clean Appliances (02 90 50 00-0008)		
02 90 50 00-0054 EA Microwave Oven, Outside, Light Clean For Disaster Clean-up	12.84	
For Medium Clean, Add	5.39	
For Heavy Clean, Add	16.69	
02 90 50 00-0055 EA Refrigerator, Outside, Light Clean For Disaster Clean-up	30.26	
For Medium Clean, Add	12.71	
For Heavy Clean, Add	39.34	
02 90 50 00-0056 EA Range, Outside, Light Clean For Disaster Clean-up	26.15	
For Medium Clean, Add	10.98	
For Heavy Clean, Add	34.00	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 90 50 00-0057 Clean Plumbing (02 90 50 00-0008)		
02 90 50 00-0058 EA Water Heater, Light Clean For Disaster Clean-up	18.60	
<i>For Medium Clean, Add</i>	7.81	
<i>For Heavy Clean, Add</i>	24.18	
02 90 50 00-0059 EA Plumbing Fixture, Light Clean For Disaster Clean-up	18.78	
<i>For Medium Clean, Add</i>	7.89	
<i>For Heavy Clean, Add</i>	24.41	
02 90 50 00-0060 EA Restroom Accessory, Light Clean For Disaster Clean-up	8.62	
<i>For Medium Clean, Add</i>	3.62	
<i>For Heavy Clean, Add</i>	11.21	
02 90 50 00-0061 Clean HVAC (02 90 50 00-0008)		
02 90 50 00-0062 LF Baseboard Heater, Light Clean For Disaster Clean-up	5.55	
<i>For Medium Clean, Add</i>	2.33	
<i>For Heavy Clean, Add</i>	7.22	
02 90 50 00-0063 LF Ductwork, Exterior Wipe, Light Clean For Disaster Clean-up	15.50	
<i>For Medium Clean, Add</i>	6.51	
<i>For Heavy Clean, Add</i>	20.15	
02 90 50 00-0064 EA Ductwork, Interior (Per Grille/Register), Light Clean For Disaster Clean-up	59.53	
<i>For Medium Clean, Add</i>	25.00	
<i>For Heavy Clean, Add</i>	77.39	
02 90 50 00-0065 EA Grille/Register, Light Clean For Disaster Clean-up	5.58	
<i>For Medium Clean, Add</i>	2.34	
<i>For Heavy Clean, Add</i>	7.25	
02 90 50 00-0066 EA Air Handling Unit, Exterior Wipe, Light Clean For Disaster Clean-up	38.64	
<i>For Medium Clean, Add</i>	16.23	
<i>For Heavy Clean, Add</i>	50.23	
02 90 50 00-0067 EA Furnace, Exterior Wipe, Light Clean For Disaster Clean-up	34.41	
<i>For Medium Clean, Add</i>	14.45	
<i>For Heavy Clean, Add</i>	44.73	
02 90 50 00-0068 Clean Electrical (02 90 50 00-0008)		
02 90 50 00-0069 EA Electric Fan, Light Clean For Disaster Clean-up	22.94	
<i>For Medium Clean, Add</i>	9.63	
<i>For Heavy Clean, Add</i>	29.82	
02 90 50 00-0070 EA Ceiling Fan, Light Clean For Disaster Clean-up	24.80	
<i>For Medium Clean, Add</i>	10.42	
<i>For Heavy Clean, Add</i>	32.24	
02 90 50 00-0071 EA Ceiling Fan And Light, Light Clean For Disaster Clean-up	32.24	
<i>For Medium Clean, Add</i>	13.54	
<i>For Heavy Clean, Add</i>	41.91	
02 90 50 00-0072 EA Ceiling Exhaust Fan, Light Clean For Disaster Clean-up	22.64	
<i>For Medium Clean, Add</i>	9.51	
<i>For Heavy Clean, Add</i>	29.43	
02 90 50 00-0073 EA 2' x 4' Light Fixture, Light Clean For Disaster Clean-up	14.88	
<i>For Medium Clean, Add</i>	6.25	
<i>For Heavy Clean, Add</i>	19.34	
02 90 50 00-0074 EA Light Fixture, Light Clean For Disaster Clean-up	6.82	
<i>For Medium Clean, Add</i>	2.86	
<i>For Heavy Clean, Add</i>	8.87	
02 90 50 00-0075 EA Smoke Detector, Light Clean For Disaster Clean-up	5.27	
<i>For Medium Clean, Add</i>	2.21	
<i>For Heavy Clean, Add</i>	6.85	
02 90 50 00-0076 EA Thermostat, Light Clean For Disaster Clean-up	1.86	
<i>For Medium Clean, Add</i>	0.78	
<i>For Heavy Clean, Add</i>	2.42	
02 90 50 00-0077 Thermal Fog (02 90 50 00-0008)		
02 90 50 00-0078 CF Clean And Deodorize Building With Thermal Fog For Disaster Clean-up	0.02	
02 90 50 00-0079 Contents Manipulation (02 90 50)		
02 90 50 00-0080 SF Cover Contents With 6 Mil Plastic Sheeting For Disaster Clean-up	0.24	
02 90 50 00-0081 SF Floor Protection, Adhesive Film For Disaster Clean-up	0.30	
02 90 50 00-0082 SF Move Contents Out And Later Reset For Disaster Clean-up	0.49	
02 90 50 00-0083 MO 20' Long Job Site Storage Trailer For Disaster Clean-up	191.74	
02 90 50 00-0084 MO 40' Long Job Site Storage Trailer For Disaster Clean-up	254.28	
02 90 50 00-0085 EA Delivery Or Pickup Job Site Storage Trailer For Disaster Clean-up	144.22	
02 90 50 00-0086 Water Disaster Clean-up (02 90 50)		
02 90 50 00-0087 LF Detach Baseboard For Disaster Clean-up	0.68	
02 90 50 00-0088 LF Detach And Later Reset Baseboard For Disaster Clean-up	1.20	
02 90 50 00-0089 EA Block And Pad Furniture (Per Piece Of Furniture) For Disaster Clean-up	4.44	
02 90 50 00-0090 SF Water Extraction From Floor For Disaster Clean-up	0.46	
02 90 50 00-0091 SF Gray Water Extraction From Floor For Disaster Clean-up	0.74	
02 90 50 00-0092 SF Black Water Extraction From Floor For Disaster Clean-up	1.17	

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

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

02 90 50 00-0093	SF	Tear Out Wet Non-Salvageable Carpet For Disaster Clean-up	0.37
02 90 50 00-0094	SF	Tear Out Wet Non-Salvageable Carpet, Black Water For Disaster Clean-up	0.43
02 90 50 00-0095	SF	Tear Out Wet Non-Salvageable Glue Down Carpet For Disaster Clean-up	0.65
02 90 50 00-0096	SF	Tear Out Wet Non-Salvageable Glue Down Carpet, Black Water For Disaster Clean-up	0.95
02 90 50 00-0097	SF	Tear Out Vinyl Flooring For Disaster Clean-up	0.90
02 90 50 00-0098	SF	Tear Out Vinyl Flooring, Black Water For Disaster Clean-up	1.33
02 90 50 00-0099	SF	Tear Out Wood Flooring, Black Water For Disaster Clean-up	3.43
02 90 50 00-0100	SF	Tear Out Laminated Wood Flooring For Disaster Clean-up	1.68
02 90 50 00-0101	SF	Tear Out Laminated Wood Flooring, Black Water For Disaster Clean-up	2.48
02 90 50 00-0102	SF	Tear Out Wet Ceiling Tile For Disaster Clean-up	0.29
02 90 50 00-0103	SF	Tear Out Batt Insulation For Disaster Clean-up	0.29
02 90 50 00-0104	SF	Tear Out Wet Gypsum Board For Disaster Clean-up	0.48
02 90 50 00-0105	SF	Apply Anti-microbial Agent For Disaster Clean-up	0.28
02 90 50 00-0106	SF	High Efficiency Particulate Air (HEPA) Vacuuming For Disaster Clean-up	0.36

02 90 50 00-0107 Board Up And Tarp Up (02 90 50)

02 90 50 00-0108	SF	Polyethylene Tarp On Roof For Disaster Clean-up	0.27
02 90 50 00-0109	SF	1/2" Temporary Plywood On Roof For Disaster Clean-up	1.44
02 90 50 00-0110	SF	5/8" Temporary Plywood On Roof For Disaster Clean-up	1.62
02 90 50 00-0111	SF	3/4" Temporary Plywood On Roof For Disaster Clean-up	1.76
02 90 50 00-0112	SF	1/2" Temporary Plywood On Wall Or Windows For Disaster Clean-up	1.81
02 90 50 00-0113	SF	5/8" Temporary Plywood On Wall Or Windows For Disaster Clean-up	1.99
02 90 50 00-0114	SF	3/4" Temporary Plywood On Wall Or Windows For Disaster Clean-up	2.13

02 90 50 00-0115 Minimum Charges (02 90 50)

02 90 50 00-0116	EA	Disaster Cleaning Minimum Charge	1,395.63
02 90 50 00-0117	EA	Disaster Water Extraction Minimum Charge	289.38
02 90 50 00-0118	EA	Disaster Carpet Cleaning Minimum Charge	246.88

02 90 50 00-0119 Document Restoration (02 90 50)

02 90 50 00-0120	EA	Book Rebinding, Each For Document Restoration	127.49
02 90 50 00-0121	EA	Book Recasing, Each For Document Restoration	63.74
02 90 50 00-0122	EA	Boxes-MCS, 1.2 CF For Document Restoration	9.07
02 90 50 00-0123	EA	Boxes-MCS, 2.0 CF For Document Restoration	10.01
02 90 50 00-0124	EA	Boxes Bankers For Document Restoration	20.37
02 90 50 00-0125	EA	Boxes Standard Packout For Document Restoration	5.81
02 90 50 00-0126	EA	Boxes X Ray For Document Restoration	12.76
02 90 50 00-0127	EA	CD Scanning and Diagnostics, Each For Document Restoration	12.76
02 90 50 00-0128	EA	Cleaning Antique Books, Each For Document Restoration	382.45
02 90 50 00-0129	EA	Cleaning Catheter Roll, Per Roll For Document Restoration	50.98
02 90 50 00-0130	EA	Cleaning CD And DVD, Per Disc For Document Restoration	5.12
02 90 50 00-0131	EA	Cleaning Level 1 - Blue Prints, Each For Document Restoration	4.06
02 90 50 00-0132	CF	Cleaning Level 1 - Document Per CF For Document Restoration	125.69
02 90 50 00-0133	EA	Cleaning Level 1 - Linen, Each For Document Restoration	4.06
02 90 50 00-0134	EA	Cleaning Level 1 - Mylar, Each For Document Restoration	4.06
02 90 50 00-0135	EA	Cleaning Level 2 - Blue Print, Each For Document Restoration	5.04
02 90 50 00-0136	CF	Cleaning Level 2 - Document Per CF For Document Restoration	188.36
02 90 50 00-0137	EA	Cleaning Level 2 - Linen, Each For Document Restoration	5.04
02 90 50 00-0138	EA	Cleaning Level 2 - Mylar, Each For Document Restoration	5.04
02 90 50 00-0139	EA	Cleaning Level 3 - Blue Prints, Each For Document Restoration	7.15
02 90 50 00-0140	CF	Cleaning Level 3 - Document Per CF For Document Restoration	251.33
02 90 50 00-0141	EA	Cleaning Level 3 - Linen, Each For Document Restoration	7.15
02 90 50 00-0142	EA	Cleaning Level 3 - Mylar, Each For Document Restoration	7.15
02 90 50 00-0143	EA	Cleaning Level 4 - All Fire-Blue Print, Each For Document Restoration	10.02
02 90 50 00-0144	EA	Cleaning Level 4 - All Fire-Linen, Each For Document Restoration	10.02
02 90 50 00-0145	EA	Cleaning Level 4 - All Fire-Mylar, Each For Document Restoration	10.02
02 90 50 00-0146	CF	Cleaning Level 4 - Light Fire-Document Per CF For Document Restoration	314.11
02 90 50 00-0147	EA	Cleaning Level 5 - Severe Fire-Blue Print, Each For Document Restoration	11.10
02 90 50 00-0148	CF	Cleaning Level 5 - Severe Fire-Document Per CF For Document Restoration	471.30
02 90 50 00-0149	EA	Cleaning Level 5 - Severe Fire-Linen, Each For Document Restoration	11.10
02 90 50 00-0150	EA	Cleaning Level 5 - Severe Fire-Mylar, Each For Document Restoration	11.10
02 90 50 00-0151	EA	Cleaning Microfiche Sheets, Each For Document Restoration	3.94
02 90 50 00-0152	EA	Cleaning Microfiche Strips, Each For Document Restoration	0.91
02 90 50 00-0153	EA	Cleaning Microfilm Rolls (In House), Per Roll For Document Restoration	127.49
02 90 50 00-0154	EA	Cleaning Microfilm Rolls (Outside), Per Roll For Document Restoration	178.49
02 90 50 00-0155	EA	Cleaning Photographs Negatives, Per Negative For Document Restoration	3.94
02 90 50 00-0156	EA	Cleaning Photographs, Each For Document Restoration	0.91
02 90 50 00-0157	EA	Cleaning Record Albums, Each For Document Restoration	5.12
02 90 50 00-0158	EA	Cleaning VHS And Beta Tapes-In House, Each For Document Restoration	12.76
02 90 50 00-0159	EA	Cleaning VHS And Beta Tapes-Outside, Each For Document Restoration	50.98
02 90 50 00-0160	EA	Cleaning X Ray 1-1000, Per Film For Document Restoration	5.38
02 90 50 00-0161	EA	Cleaning X Ray 1K-5K, Per Film For Document Restoration	4.59
02 90 50 00-0162	EA	Cleaning X Ray 5K-Up, Per Film For Document Restoration	3.60
02 90 50 00-0163	EA	Copying Clean Water, Per Page For Document Restoration	0.52
02 90 50 00-0164	EA	Copying Greywater Fire, Per Page For Document Restoration	1.38
02 90 50 00-0165	CF	Deodorization, Vapor Tech For Document Restoration	9.22
02 90 50 00-0166	CF	Disinfectant-Fogging For Document Restoration	17.88
02 90 50 00-0167	EA	Document Disposal In House No Shredding For Document Restoration	71.62



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 90 50 00-0168	EA		Document Disposal In House With Shredding For Document Restoration	19.54	
02 90 50 00-0169	CF		Up To 150 CF, Drying-MCS Center For Document Restoration	229.47	
02 90 50 00-0170	CF		>150 To 500 CF, Drying-MCS Center For Document Restoration	178.49	
02 90 50 00-0171	CF		>500 CF, Drying-MCS Center For Document Restoration	152.98	
02 90 50 00-0172	CF		>50 To 150 CF, Drying-MCS Center For Document Restoration	203.98	
02 90 50 00-0173	CF		Up To 500 CF, Drying-Onsite For Document Restoration	382.45	
02 90 50 00-0174	CF		>500 CF, Drying-Onsite For Document Restoration	234.61	
02 90 50 00-0175	EA		Drying Antique Books, Each For Document Restoration	50.98	
02 90 50 00-0176	EA		Drying Blue Prints, Each For Document Restoration	6.38	
02 90 50 00-0177	EA		DVD Scanning And Diagnostics, Each For Document Restoration	12.76	
02 90 50 00-0178	EA		Freeze Drying (In House) For Document Restoration	130.69	
02 90 50 00-0179	EA		Freeze Drying (Outside) For Document Restoration	112.02	
02 90 50 00-0180	EA		Up To 48 CF, Irradiation - Gamma (Minimum Charge) For Document Restoration	3,080.55	
02 90 50 00-0181	CF		>48 CF, Irradiation - Gamma (Per CF Charge) For Document Restoration	28.00	
02 90 50 00-0182	EA		Minimal Drying Jobs For Document Restoration	1,297.56	
02 90 50 00-0183	EA		Monthly Storage For Document Restoration	233.38	
02 90 50 00-0184	EA		Mylar Prints For Document Restoration	12.76	
02 90 50 00-0185	CF		Ozoning For Document Restoration	8.28	
02 90 50 00-0186	CF		Stabilization Freezer Storage, Per Cubic Foot Per Month For Document Restoration	11.28	
02 90 50 00-0187	MO		Stabilization Freezer Storage, Per Page-Per Month For Document Restoration	0.12	
02 90 50 00-0188	EA		Wood Pallets, Each For Document Restoration	31.35	

02 90 55 Emergency Clean-up (02 90)

02 90 55 00-0001 Emergency Clean-up (02 90 55)

Note: Used in the performance of time and material projects. Not used in conjunction with tasks in the Cleaning, Contents Manipulation, and Water Emergency Clean-up sections.

02 90 55 00-0002 Emergency Clean-up Labor (02 90 55 00-0001)

Note: Used in the performance of time and material projects. Labor costs are based on workers familiar with and skilled in the performance of the task following restoration requirements. Not to be used in conjunction with tasks in the Cleaning, Contents Manipulation, and Water Emergency Clean-up sections.

02 90 55 00-0003	HR		Skilled Tradesman For Emergency Clean Up	60.96	
02 90 55 00-0004	HR		Restoration / Document Laborer For Emergency Clean Up	42.67	
02 90 55 00-0005	HR		Restoration / Document Supervisor For Emergency Clean Up	58.67	
02 90 55 00-0006	HR		Restoration / Document Project Manager For Emergency Clean Up	96.01	
02 90 55 00-0007	HR		Assistant Project Manager For Emergency Clean Up	80.01	
02 90 55 00-0008	HR		Senior Project Manager For Emergency Clean Up	112.01	
02 90 55 00-0009	HR		Project Director / Document Consultant / Account Manager For Emergency Clean Up	160.02	
02 90 55 00-0010	HR		Equipment Technician For Emergency Clean Up	117.35	
02 90 55 00-0011	HR		Mold Remediation Laborer For Emergency Clean Up	58.42	
02 90 55 00-0012	HR		Mold Remediation Supervisor For Emergency Clean Up	80.01	
02 90 55 00-0013	HR		Administrative Personnel For Emergency Clean Up	37.34	
02 90 55 00-0014	HR		Project Accountant For Emergency Clean Up	60.96	
02 90 55 00-0015	HR		Biohazard Technician For Emergency Clean Up	84.71	
02 90 55 00-0016	HR		Biohazard Supervisor For Emergency Clean Up	101.85	
02 90 55 00-0017	HR		Health And Safety Officer For Emergency Clean Up	91.44	
02 90 55 00-0018	HR		Resource And Logistics Coordinator For Emergency Clean Up	66.04	
02 90 55 00-0019	HR		Loss Control Specialist For Emergency Clean Up	64.01	
02 90 55 00-0020	HR		Moisture Control Specialist For Emergency Clean Up	52.83	
02 90 55 00-0021	HR		Mobilization Support For Emergency Clean Up	32.51	

02 90 55 00-0022 Emergency Clean-up Equipment (02 90 55 00-0001)

Note: Used in the performance of time and material projects. Not used in conjunction with tasks in the Cleaning, Contents Manipulation, and Water Emergency Clean-up sections.

02 90 55 00-0023 General Emergency Clean-up Equipment (02 90 55 00-0022)

02 90 55 00-0024	DAY		265 CFM Portable Ozone Machine, 12,000 MG/HR For Emergency Clean-up	163.58	
02 90 55 00-0025	WK		265 CFM Portable Ozone Machine, 12,000 MG/HR For Emergency Clean-up	624.03	
02 90 55 00-0026	MO		265 CFM Portable Ozone Machine, 12,000 MG/HR For Emergency Clean-up	1,708.50	
02 90 55 00-0027	DAY		13" Floor Buffer Rental For Emergency Clean-up	54.67	
02 90 55 00-0028	WK		13" Floor Buffer Rental For Emergency Clean-up	146.07	
02 90 55 00-0029	MO		13" Floor Buffer Rental For Emergency Clean-up	403.23	
02 90 55 00-0030	DAY		17" Floor Buffer Rental For Emergency Clean-up	100.81	
02 90 55 00-0031	WK		17" Floor Buffer Rental For Emergency Clean-up	257.16	
02 90 55 00-0032	MO		17" Floor Buffer Rental For Emergency Clean-up	606.90	
02 90 55 00-0033	DAY		Walk Behind Floor Scrubber Rental For Emergency Clean-up	555.47	
02 90 55 00-0034	WK		Walk Behind Floor Scrubber Rental For Emergency Clean-up	1,491.54	
02 90 55 00-0035	MO		Walk Behind Floor Scrubber Rental For Emergency Clean-up	4,155.75	
02 90 55 00-0036	DAY		Ride-On Floor Scrubber Rental For Emergency Clean-up	1,254.95	
02 90 55 00-0037	WK		Ride-On Floor Scrubber Rental For Emergency Clean-up	3,312.25	
02 90 55 00-0038	MO		Ride-On Floor Scrubber Rental For Emergency Clean-up	8,928.68	
02 90 55 00-0039	DAY		4 Gallon, Commercial Carpet Extractor Rental For Emergency Clean-up	90.52	
02 90 55 00-0040	WK		4 Gallon, Commercial Carpet Extractor Rental For Emergency Clean-up	257.16	
02 90 55 00-0041	MO		4 Gallon, Commercial Carpet Extractor Rental For Emergency Clean-up	884.64	
02 90 55 00-0042	DAY		8 Gallon, Commercial Carpet Extractor Rental For Emergency Clean-up	84.35	
02 90 55 00-0043	WK		8 Gallon, Commercial Carpet Extractor Rental For Emergency Clean-up	226.30	
02 90 55 00-0044	MO		8 Gallon, Commercial Carpet Extractor Rental For Emergency Clean-up	586.33	
02 90 55 00-0045	DAY		17 to 30 Gallon, Commercial Carpet Extractor Rental For Emergency Clean-up	134.96	
02 90 55 00-0046	WK		17 to 30 Gallon, Commercial Carpet Extractor Rental For Emergency Clean-up	385.13	

02 Existing Conditions**02 90 Disaster Recovery****02 90 55 Emergency Clean-up**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

02 90 55 00-0047	MO	17 to 30 Gallon, Commercial Carpet Extractor Rental For Emergency Clean-up	1,076.38
02 90 55 00-0048	DAY	Truck Mounted Extractor Rental For Emergency Clean-up	958.72
02 90 55 00-0049	WK	Truck Mounted Extractor Rental For Emergency Clean-up	2,876.15
02 90 55 00-0050	MO	Truck Mounted Extractor Rental For Emergency Clean-up	8,628.44
02 90 55 00-0051	DAY	16" Chain Saw Rental For Emergency Clean-up	98.75
02 90 55 00-0052	WK	16" Chain Saw Rental For Emergency Clean-up	222.19
02 90 55 00-0053	MO	16" Chain Saw Rental For Emergency Clean-up	592.50
02 90 55 00-0054	DAY	20" Chain Saw Rental For Emergency Clean-up	123.44
02 90 55 00-0055	WK	20" Chain Saw Rental For Emergency Clean-up	277.74
02 90 55 00-0056	MO	20" Chain Saw Rental For Emergency Clean-up	740.63
02 90 55 00-0057	EA	Cleaning Kit With Mop, Broom And Bucket For Emergency Clean-up	92.58
02 90 55 00-0058	DAY	14" To 16" Electric Cut Off Saw Rental For Emergency Clean-up	131.67
02 90 55 00-0059	WK	14" To 16" Electric Cut Off Saw Rental For Emergency Clean-up	360.03
02 90 55 00-0060	MO	14" To 16" Electric Cut Off Saw Rental For Emergency Clean-up	1,008.08
02 90 55 00-0061	DAY	12" To 14" Gasoline Cut Off Saw Rental For Emergency Clean-up	160.47
02 90 55 00-0062	WK	12" To 14" Gasoline Cut Off Saw Rental For Emergency Clean-up	545.18
02 90 55 00-0063	MO	12" To 14" Gasoline Cut Off Saw Rental For Emergency Clean-up	1,038.94
02 90 55 00-0064	DAY	Wet Or Dry Portable Cleaning Unit For Emergency Clean-up	154.91
02 90 55 00-0065	WK	Wet Or Dry Portable Cleaning Unit For Emergency Clean-up	426.01
02 90 55 00-0066	MO	Wet Or Dry Portable Cleaning Unit For Emergency Clean-up	1,161.83
02 90 55 00-0067	DAY	Extension Cords - 220 Volt For Emergency Clean-up	51.43
02 90 55 00-0068	DAY	Extension Cords - 220 Volt Converter Box For Emergency Clean-up	30.86
02 90 55 00-0069	DAY	Demolition Cart, 1 Yard For Emergency Clean-up	82.29
02 90 55 00-0070	WK	Demolition Cart, 1 Yard For Emergency Clean-up	226.30
02 90 55 00-0071	MO	Demolition Cart, 1 Yard For Emergency Clean-up	617.19
02 90 55 00-0072	DAY	Demolition Cart, 1-1/2 Yard For Emergency Clean-up	102.86
02 90 55 00-0073	WK	Demolition Cart, 1-1/2 Yard For Emergency Clean-up	282.88
02 90 55 00-0074	MO	Demolition Cart, 1-1/2 Yard For Emergency Clean-up	771.49
02 90 55 00-0075	EA	Demolition Kit With Wheel Barrow, Shovel And Broom For Emergency Clean-up	154.30
02 90 55 00-0076	DAY	Dry-Ice Blasting System For Emergency Clean-up	1,817.52
02 90 55 00-0077	DAY	Fogger - Mist For Emergency Clean-up	45.56
02 90 55 00-0078	WK	Fogger - Mist For Emergency Clean-up	125.30
02 90 55 00-0079	MO	Fogger - Mist For Emergency Clean-up	341.72
02 90 55 00-0080	DAY	Fogger - Electric Thermal For Emergency Clean-up	65.61
02 90 55 00-0081	WK	Fogger - Electric Thermal For Emergency Clean-up	180.43
02 90 55 00-0082	MO	Fogger - Electric Thermal For Emergency Clean-up	492.07
02 90 55 00-0083	DAY	Fogger - Gas Power Thermal For Emergency Clean-up	189.77
02 90 55 00-0084	WK	Fogger - Gas Power Thermal For Emergency Clean-up	521.86
02 90 55 00-0085	MO	Fogger - Gas Power Thermal For Emergency Clean-up	1,423.24
02 90 55 00-0086	EA	Gang Box, Demo/Framing (One Time Per Job) For Emergency Clean-up	216.96
02 90 55 00-0087	WK	Gang Box, Demo/Framing (One Time Per Job) For Emergency Clean-up	596.65
02 90 55 00-0088	MO	Gang Box, Demo/Framing (One Time Per Job) For Emergency Clean-up	1,627.22
02 90 55 00-0089	DAY	Hand Trucks/Dollies For Emergency Clean-up	24.69
02 90 55 00-0090	WK	Hand Trucks/Dollies For Emergency Clean-up	67.89
02 90 55 00-0091	MO	Hand Trucks/Dollies For Emergency Clean-up	185.16
02 90 55 00-0092	DAY	Heat Gun - Shrink Wrap For Emergency Clean-up	140.02
02 90 55 00-0093	WK	Heat Gun - Shrinkwrap For Emergency Clean-up	385.07
02 90 55 00-0094	MO	Heat Gun - Shrinkwrap For Emergency Clean-up	1,050.19
02 90 55 00-0095	DAY	High Efficiency Particulate Air (HEPA) Negative Air Machine For Emergency Clean-up Note: Includes all filters.	190.93
02 90 55 00-0096	DAY	Ladder For Emergency Clean-up	34.97
02 90 55 00-0097	DAY	Lights - Demo, Drop, Stand, String For Emergency Clean-up	32.80
02 90 55 00-0098	DAY	Lights - Wobble For Emergency Clean-up	40.09
02 90 55 00-0099	DAY	Moisture Meter For Emergency Clean-up	54.67
02 90 55 00-0100	WK	Moisture Meter For Emergency Clean-up	150.36
02 90 55 00-0101	MO	Moisture Meter For Emergency Clean-up	410.06
02 90 55 00-0102	DAY	Nail Gun For Emergency Clean-up	92.58
02 90 55 00-0103	WK	Nail Gun For Emergency Clean-up	254.59
02 90 55 00-0104	MO	Nail Gun For Emergency Clean-up	694.34
02 90 55 00-0105	DAY	Ozone Generator For Emergency Clean-up	227.81
02 90 55 00-0106	DAY	PPE (Personal Protective Equipment) Mold Remediation Related For Emergency Clean-up	123.44
02 90 55 00-0107	DAY	Portable Generator, Up To 7,500 Watt For Emergency Clean-up	182.25
02 90 55 00-0108	DAY	Pressure Washer, Hot For Emergency Clean-up	273.37
02 90 55 00-0109	DAY	Pressure Washer, Cold For Emergency Clean-up	182.25
02 90 55 00-0110	DAY	Scaffolding - Per Section For Emergency Clean-up	133.72
02 90 55 00-0111	DAY	Small Tools - Tool Box For Emergency Clean-up	51.43
02 90 55 00-0112	DAY	Soda Blasting Equipment For Emergency Clean-up	1,803.52
02 90 55 00-0113	DAY	Sprayer - Hudson For Emergency Clean-up	16.46
02 90 55 00-0114	WK	Sprayer - Hudson For Emergency Clean-up	45.26
02 90 55 00-0115	MO	Sprayer - Hudson For Emergency Clean-up	123.44
02 90 55 00-0116	DAY	0.47 GPM, Airless Paint Sprayer For Emergency Clean-up	111.18
02 90 55 00-0117	WK	0.47 GPM, Airless Paint Sprayer For Emergency Clean-up	327.11
02 90 55 00-0118	MO	0.47 GPM, Airless Paint Sprayer For Emergency Clean-up	1,119.62
02 90 55 00-0119	DAY	0.60 GPM, Airless Paint Sprayer For Emergency Clean-up	219.23
02 90 55 00-0120	WK	0.60 GPM, Airless Paint Sprayer For Emergency Clean-up	516.75
02 90 55 00-0121	MO	0.60 GPM, Airless Paint Sprayer For Emergency Clean-up	1,440.64
02 90 55 00-0122	DAY	0.80 GPM, Airless Paint Sprayer For Emergency Clean-up	234.88
02 90 55 00-0123	WK	0.80 GPM, Airless Paint Sprayer For Emergency Clean-up	587.22
02 90 55 00-0124	MO	0.80 GPM, Airless Paint Sprayer For Emergency Clean-up	1,581.57
02 90 55 00-0125	DAY	Storage Space (Per SF Per Day) For Emergency Clean-up	4.52
02 90 55 00-0126	DAY	Submersible Pump For Emergency Clean-up	45.56



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 90 55 00-0127 DAY Trash Pump - 2" Gas Powered For Emergency Clean-up	259.51	
02 90 55 00-0128 DAY Vehicle, Pick-up, SUV, Car For Emergency Clean-up	128.82	
02 90 55 00-0129 DAY Vehicle, Van For Emergency Clean-up	210.04	
02 90 55 00-0130 DAY 16' Or 24' Box Truck Vehicle For Emergency Clean-up	263.56	
Note: Includes Mileage		
02 90 55 00-0131 DAY Trailer - Refrigerated 40' Storage For Emergency Clean-up	279.12	
02 90 55 00-0132 DAY Utility Trailer For Emergency Clean-up	232.44	
Note: Includes Mileage		
02 90 55 00-0133 DAY Truck Mount, Per Wand Extraction For Emergency Clean-up	1,048.32	
02 90 55 00-0134 DAY High Efficiency Particulate Air (HEPA) Backpack Vacuum For Emergency Clean-up	45.56	
02 90 55 00-0135 WK High Efficiency Particulate Air (HEPA) Backpack Vacuum For Emergency Clean-up	125.30	
02 90 55 00-0136 MO High Efficiency Particulate Air (HEPA) Backpack Vacuum For Emergency Clean-up	341.72	
02 90 55 00-0137 DAY 12 Gallon, Industrial High Efficiency Particulate Air (HEPA) Vacuum For Emergency Clean-up	154.91	
02 90 55 00-0138 WK 12 Gallon, Industrial High Efficiency Particulate Air (HEPA) Vacuum For Emergency Clean-up	426.01	
02 90 55 00-0139 MO 12 Gallon, Industrial High Efficiency Particulate Air (HEPA) Vacuum For Emergency Clean-up	1,161.83	
02 90 55 00-0140 DAY Vacuum - Upright For Emergency Clean-up	30.81	
02 90 55 00-0141 WK Vacuum - Upright For Emergency Clean-up	84.72	
02 90 55 00-0142 MO Vacuum - Upright For Emergency Clean-up	231.04	
02 90 55 00-0143 DAY 12 To 23 Gallon, Wet/Dry Shop Vacuum For Emergency Clean-up	63.78	
02 90 55 00-0144 WK 12 To 23 Gallon, Wet/Dry Shop Vacuum For Emergency Clean-up	158.41	
02 90 55 00-0145 MO 12 To 23 Gallon, Wet/Dry Shop Vacuum For Emergency Clean-up	380.60	
02 90 55 00-0146 DAY 55 Gallon Wet/Dry Drum Top Vacuum For Emergency Clean-up	63.78	
02 90 55 00-0147 WK 55 Gallon Wet/Dry Drum Top Vacuum For Emergency Clean-up	158.41	
02 90 55 00-0148 MO 55 Gallon Wet/Dry Drum Top Vacuum For Emergency Clean-up	401.17	
02 90 55 00-0149 DAY 17 Gallon Wet Vacuum With Pump Discharge For Emergency Clean-up	146.07	
02 90 55 00-0150 WK 17 Gallon Wet Vacuum With Pump Discharge For Emergency Clean-up	390.89	
02 90 55 00-0151 MO 17 Gallon Wet Vacuum With Pump Discharge For Emergency Clean-up	1,090.37	
02 90 55 00-0152 DAY Zip Wall Poles (Per 2 Poles) For Emergency Clean-up	45.56	
02 90 55 00-0153 WK Zip Wall Poles (Per 2 Poles) For Emergency Clean-up	125.30	
02 90 55 00-0154 MO Zip Wall Poles (Per 2 Poles) For Emergency Clean-up	341.72	
02 90 55 00-0155 DAY 10' x 10' Canopy For Emergency Clean-up	129.61	
02 90 55 00-0156 WK 10' x 10' Canopy For Emergency Clean-up	259.22	
02 90 55 00-0157 MO 10' x 10' Canopy For Emergency Clean-up	518.44	
02 90 55 00-0158 DAY 10' x 20' Canopy For Emergency Clean-up	259.22	
02 90 55 00-0159 WK 10' x 20' Canopy For Emergency Clean-up	518.44	
02 90 55 00-0160 MO 10' x 20' Canopy For Emergency Clean-up	1,036.88	
02 90 55 00-0161 DAY 16' x 16' Canopy For Emergency Clean-up	325.05	
02 90 55 00-0162 WK 16' x 16' Canopy For Emergency Clean-up	650.11	
02 90 55 00-0163 MO 16' x 16' Canopy For Emergency Clean-up	1,300.21	
02 90 55 00-0164 DAY 20' x 20' Canopy For Emergency Clean-up	432.03	
02 90 55 00-0165 WK 20' x 20' Canopy For Emergency Clean-up	864.07	
02 90 55 00-0166 MO 20' x 20' Canopy For Emergency Clean-up	1,728.13	
02 90 55 00-0167 DAY 20' x 30' Canopy For Emergency Clean-up	493.75	
02 90 55 00-0168 WK 20' x 30' Canopy For Emergency Clean-up	987.50	
02 90 55 00-0169 MO 20' x 30' Canopy For Emergency Clean-up	1,975.01	
02 90 55 00-0170 DAY 20' x 40' Canopy For Emergency Clean-up	576.04	
02 90 55 00-0171 WK 20' x 40' Canopy For Emergency Clean-up	1,152.09	
02 90 55 00-0172 MO 20' x 40' Canopy For Emergency Clean-up	2,304.18	
02 90 55 00-0173 DAY First Aid Station For Emergency Clean-up	311.06	
02 90 55 00-0174 WK First Aid Station For Emergency Clean-up	855.43	
02 90 55 00-0175 MO First Aid Station For Emergency Clean-up	2,332.98	
02 90 55 00-0176 DAY Portable Eyewash Station For Emergency Clean-up	94.47	
02 90 55 00-0177 WK Portable Eyewash Station For Emergency Clean-up	259.80	
02 90 55 00-0178 MO Portable Eyewash Station For Emergency Clean-up	708.53	
02 90 55 00-0179 DAY 2 Way Radio For Emergency Clean-up	39.21	
02 90 55 00-0180 Technical/Electronics Restoration Equipment (02 90 55 00-0022)		
02 90 55 00-0181 DAY Computer - Diagnostic For Emergency Clean-up	51.43	
02 90 55 00-0182 WK Computer - Diagnostic For Emergency Clean-up	141.44	
02 90 55 00-0183 MO Computer - Diagnostic For Emergency Clean-up	385.74	
02 90 55 00-0184 DAY Convection Oven - Large For Emergency Clean-up	814.95	
02 90 55 00-0185 WK Convection Oven - Large For Emergency Clean-up	2,241.10	
02 90 55 00-0186 MO Convection Oven - Large For Emergency Clean-up	6,112.09	
02 90 55 00-0187 DAY Convection Oven - Small For Emergency Clean-up	185.16	
02 90 55 00-0188 WK Convection Oven - Small For Emergency Clean-up	509.18	
02 90 55 00-0189 MO Convection Oven - Small For Emergency Clean-up	1,388.68	
02 90 55 00-0190 DAY Convection Oven - Vacuum For Emergency Clean-up	1,163.14	
02 90 55 00-0191 WK Convection Oven - Vacuum For Emergency Clean-up	3,198.64	
02 90 55 00-0192 MO Convection Oven - Vacuum For Emergency Clean-up	8,723.56	
02 90 55 00-0193 DAY Decontamination Booth For Emergency Clean-up	961.50	
02 90 55 00-0194 WK Decontamination Booth For Emergency Clean-up	2,644.14	
02 90 55 00-0195 MO Decontamination Booth For Emergency Clean-up	7,211.29	
02 90 55 00-0196 DAY DI Water System For Emergency Clean-up	74.68	
02 90 55 00-0197 WK DI Water System For Emergency Clean-up	205.37	
02 90 55 00-0198 MO DI Water System For Emergency Clean-up	560.10	
02 90 55 00-0199 DAY ESD Bench Workstation For Emergency Clean-up	45.74	
02 90 55 00-0200 WK ESD Bench Workstation For Emergency Clean-up	125.79	
02 90 55 00-0201 MO ESD Bench Workstation For Emergency Clean-up	343.06	
02 90 55 00-0202 DAY Heater/Enclosure Control System For Emergency Clean-up	30.86	
02 90 55 00-0203 WK Heater/Enclosure Control System For Emergency Clean-up	84.86	

02 Existing Conditions**02 90 Disaster Recovery****02 90 55 Emergency Clean-up**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

02 90 55 00-0204	MO	Heater/Enclosure Control System For Emergency Clean-up	231.45	
02 90 55 00-0205	DAY	Hi-Tech Mobile Cart/Workstation For Emergency Clean-up	117.62	
02 90 55 00-0206	WK	Hi-Tech Mobile Cart/Workstation For Emergency Clean-up	323.46	
02 90 55 00-0207	MO	Hi-Tech Mobile Cart/Workstation For Emergency Clean-up	882.16	
02 90 55 00-0208	DAY	Micro-Blaster/Dust Collector For Emergency Clean-up	462.89	
02 90 55 00-0209	WK	Micro-Blaster/Dust Collector For Emergency Clean-up	1,272.95	
02 90 55 00-0210	MO	Micro-Blaster/Dust Collector For Emergency Clean-up	3,471.69	
02 90 55 00-0211	DAY	Mobile Laboratory For Emergency Clean-up	1,285.81	
02 90 55 00-0212	WK	Mobile Laboratory For Emergency Clean-up	3,535.98	
02 90 55 00-0213	MO	Mobile Laboratory For Emergency Clean-up	9,643.59	
02 90 55 00-0214	DAY	Nitrogen Enclosure Cabinet For Emergency Clean-up	24.69	
02 90 55 00-0215	WK	Nitrogen Enclosure Cabinet For Emergency Clean-up	67.89	
02 90 55 00-0216	MO	Nitrogen Enclosure Cabinet For Emergency Clean-up	185.16	
02 90 55 00-0217	DAY	Odell Cleaning Station For Emergency Clean-up	720.06	
02 90 55 00-0218	WK	Odell Cleaning Station For Emergency Clean-up	1,980.15	
02 90 55 00-0219	MO	Odell Cleaning Station For Emergency Clean-up	5,400.41	
02 90 55 00-0220	DAY	Parts Washer For Emergency Clean-up	51.43	
02 90 55 00-0221	WK	Parts Washer For Emergency Clean-up	141.44	
02 90 55 00-0222	MO	Parts Washer For Emergency Clean-up	385.74	
02 90 55 00-0223	DAY	Ultrasonic Cleaning System For Emergency Clean-up	350.06	
02 90 55 00-0224	WK	Ultrasonic Cleaning System For Emergency Clean-up	962.67	
02 90 55 00-0225	MO	Ultrasonic Cleaning System For Emergency Clean-up	2,625.47	
02 90 55 00-0226	DAY	Technical High Efficiency Particulate Air (HEPA) Vacuum For Emergency Clean-up	154.91	
02 90 55 00-0227	WK	Technical High Efficiency Particulate Air (HEPA) Vacuum For Emergency Clean-up	426.01	
02 90 55 00-0228	MO	Technical High Efficiency Particulate Air (HEPA) Vacuum For Emergency Clean-up	1,161.83	

02 90 55 00-0229 Drying/Dehumidification Equipment (02 90 55 00-0022)

02 90 55 00-0230	DAY	202 CFM Water Extraction Unit With Dual 3-Stage Vacuums For Emergency Clean-up	227.81	
Note: Includes 25' high Pressure solution hose and 25' Vacuum hose.				
02 90 55 00-0231	WK	202 CFM Water Extraction Unit With Dual 3-Stage Vacuums For Emergency Clean-up	626.48	
Note: Includes 25' high Pressure solution hose and 25' Vacuum hose.				
02 90 55 00-0232	MO	202 CFM Water Extraction Unit With Dual 3-Stage Vacuums For Emergency Clean-up	1,708.58	
Note: Includes 25' high Pressure solution hose and 25' Vacuum hose.				
02 90 55 00-0233	DAY	2,200 CFM Centrifugal Air Mover For Emergency Clean-up	57.23	
02 90 55 00-0234	WK	2,200 CFM Centrifugal Air Mover For Emergency Clean-up	157.38	
02 90 55 00-0235	MO	2,200 CFM Centrifugal Air Mover For Emergency Clean-up	429.23	
02 90 55 00-0236	DAY	3,000 CFM Axial Air Mover For Emergency Clean-up	95.38	
02 90 55 00-0237	WK	3,000 CFM Axial Air Mover For Emergency Clean-up	262.31	
02 90 55 00-0238	MO	3,000 CFM Axial Air Mover For Emergency Clean-up	715.39	
02 90 55 00-0239	DAY	Injectidry System For Emergency Clean-up	282.49	
02 90 55 00-0240	WK	Injectidry System For Emergency Clean-up	776.83	
02 90 55 00-0241	MO	Injectidry System For Emergency Clean-up	2,118.64	
02 90 55 00-0242	DAY	Up To 100 Pints Water Removal Per Day, Refrigerant Dehumidifier For Emergency Clean-up	182.25	
02 90 55 00-0243	WK	Up To 100 Pints Water Removal Per Day, Refrigerant Dehumidifier For Emergency Clean-up	501.18	
02 90 55 00-0244	MO	Up To 100 Pints Water Removal Per Day, Refrigerant Dehumidifier For Emergency Clean-up	1,366.86	
02 90 55 00-0245	DAY	>100 To 175 Pints Water Removal Per Day, Refrigerant Dehumidifier For Emergency Clean-up	257.16	
02 90 55 00-0246	WK	>100 To 175 Pints Water Removal Per Day, Refrigerant Dehumidifier For Emergency Clean-up	707.20	
02 90 55 00-0247	MO	>100 To 175 Pints Water Removal Per Day, Refrigerant Dehumidifier For Emergency Clean-up	1,928.72	
02 90 55 00-0248	DAY	>175 To 250 Pints Water Removal Per Day, Refrigerant Dehumidifier For Emergency Clean-up	251.68	
02 90 55 00-0249	WK	>175 To 250 Pints Water Removal Per Day, Refrigerant Dehumidifier For Emergency Clean-up	692.11	
02 90 55 00-0250	MO	>175 To 250 Pints Water Removal Per Day, Refrigerant Dehumidifier For Emergency Clean-up	1,887.57	
02 90 55 00-0251	DAY	Phoenix 200 Refrigerant Dehumidifier For Emergency Clean-up	269.03	
02 90 55 00-0252	WK	Phoenix 200 Refrigerant Dehumidifier For Emergency Clean-up	739.84	
02 90 55 00-0253	MO	Phoenix 200 Refrigerant Dehumidifier For Emergency Clean-up	2,017.75	
02 90 55 00-0254	DAY	Phoenix 300 Refrigerant Dehumidifier For Emergency Clean-up	269.03	
02 90 55 00-0255	WK	Phoenix 300 Refrigerant Dehumidifier For Emergency Clean-up	739.84	
02 90 55 00-0256	MO	Phoenix 300 Refrigerant Dehumidifier For Emergency Clean-up	2,017.75	
02 90 55 00-0257	DAY	D-500 Desiccant Dehumidifier For Emergency Clean-up	303.75	
02 90 55 00-0258	WK	D-500 Desiccant Dehumidifier For Emergency Clean-up	835.31	
02 90 55 00-0259	MO	D-500 Desiccant Dehumidifier For Emergency Clean-up	2,278.11	
02 90 55 00-0260	DAY	D-750 Desiccant Dehumidifier For Emergency Clean-up	637.87	
02 90 55 00-0261	WK	D-750 Desiccant Dehumidifier For Emergency Clean-up	1,754.14	
02 90 55 00-0262	MO	D-750 Desiccant Dehumidifier For Emergency Clean-up	4,784.02	
02 90 55 00-0263	DAY	D-1000 Desiccant Dehumidifier For Emergency Clean-up	1,093.49	
02 90 55 00-0264	WK	D-1000 Desiccant Dehumidifier For Emergency Clean-up	3,007.10	
02 90 55 00-0265	MO	D-1000 Desiccant Dehumidifier For Emergency Clean-up	8,201.18	
02 90 55 00-0266	DAY	D-1500 Desiccant Dehumidifier For Emergency Clean-up	1,683.63	
02 90 55 00-0267	WK	D-1500 Desiccant Dehumidifier For Emergency Clean-up	4,629.98	
02 90 55 00-0268	MO	D-1500 Desiccant Dehumidifier For Emergency Clean-up	12,627.22	
02 90 55 00-0269	DAY	D-2000 Desiccant Dehumidifier For Emergency Clean-up	1,683.63	
02 90 55 00-0270	WK	D-2000 Desiccant Dehumidifier For Emergency Clean-up	4,629.98	
02 90 55 00-0271	MO	D-2000 Desiccant Dehumidifier For Emergency Clean-up	12,627.22	
02 90 55 00-0272	DAY	D-2250 Desiccant Dehumidifier For Emergency Clean-up	1,758.26	
02 90 55 00-0273	WK	D-2250 Desiccant Dehumidifier For Emergency Clean-up	4,835.23	
02 90 55 00-0274	MO	D-2250 Desiccant Dehumidifier For Emergency Clean-up	13,186.98	
02 90 55 00-0275	DAY	D-3000 Desiccant Dehumidifier For Emergency Clean-up	2,186.98	
02 90 55 00-0276	WK	D-3000 Desiccant Dehumidifier For Emergency Clean-up	6,014.20	
02 90 55 00-0277	MO	D-3000 Desiccant Dehumidifier For Emergency Clean-up	16,402.36	
02 90 55 00-0278	DAY	D-4500 Desiccant Dehumidifier For Emergency Clean-up	2,460.35	
02 90 55 00-0279	WK	D-4500 Desiccant Dehumidifier For Emergency Clean-up	6,765.98	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 90 55 00-0280 MO D-4500 Desiccant Dehumidifier For Emergency Clean-up	18,452.66	
02 90 55 00-0281 DAY D-5000 Desiccant Dehumidifier For Emergency Clean-up	2,642.60	
02 90 55 00-0282 WK D-5000 Desiccant Dehumidifier For Emergency Clean-up	7,267.16	
02 90 55 00-0283 MO D-5000 Desiccant Dehumidifier For Emergency Clean-up	19,819.52	
02 90 55 00-0284 DAY D-9000 Desiccant Dehumidifier For Emergency Clean-up	3,471.40	
02 90 55 00-0285 WK D-9000 Desiccant Dehumidifier For Emergency Clean-up	9,546.35	
02 90 55 00-0286 MO D-9000 Desiccant Dehumidifier For Emergency Clean-up	26,035.50	
02 90 55 00-0287 DAY D-10500 Desiccant Dehumidifier For Emergency Clean-up	3,644.97	
02 90 55 00-0288 WK D-10500 Desiccant Dehumidifier For Emergency Clean-up	10,023.67	
02 90 55 00-0289 MO D-10500 Desiccant Dehumidifier For Emergency Clean-up	27,337.28	
02 90 55 00-0290 DAY 3.5 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....	637.11	
02 90 55 00-0291 WK 3.5 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....	1,752.06	
02 90 55 00-0292 MO 3.5 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....	4,778.35	
02 90 55 00-0293 DAY 5 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....	882.16	
02 90 55 00-0294 WK 5 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....	2,425.93	
02 90 55 00-0295 MO 5 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....	6,616.18	
02 90 55 00-0296 DAY 10 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....	1,093.49	
02 90 55 00-0297 WK 10 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....	3,007.10	
02 90 55 00-0298 MO 10 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....	8,201.18	
02 90 55 00-0299 DAY 25 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....	1,457.99	
02 90 55 00-0300 WK 25 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....	4,009.47	
02 90 55 00-0301 MO 25 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....	10,934.91	
02 90 55 00-0302 DAY 50 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....	2,460.35	
02 90 55 00-0303 WK 50 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....	6,765.98	
02 90 55 00-0304 MO 50 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....	18,452.66	
02 90 55 00-0305 DAY 80 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....	2,733.73	
02 90 55 00-0306 WK 80 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....	7,517.75	
02 90 55 00-0307 MO 80 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....	20,502.96	
02 90 55 00-0308 DAY 25' Flex Duct For Emergency Clean-up.....	36.45	
02 90 55 00-0309 WK 25' Flex Duct For Emergency Clean-up.....	100.24	
02 90 55 00-0310 MO 25' Flex Duct For Emergency Clean-up.....	273.37	
02 90 55 00-0311 DAY Hygrothermograph For Emergency Clean-up.....	51.43	
02 90 55 00-0312 WK Hygrothermograph For Emergency Clean-up.....	141.44	
02 90 55 00-0313 MO Hygrothermograph For Emergency Clean-up.....	385.74	
02 90 55 00-0314 DAY Dehumidification Trailer With 1,500 CFM Desiccant Unit For Emergency Clean-up.....	9,224.71	
Note: Includes 400 KW generator, 1500 CFM desiccant DH, 25 Ton DX unit, 1000 gallon fuel tank, and limited electrical distribution.		
02 90 55 00-0315 WK Dehumidification Trailer With 1,500 CFM Desiccant Unit For Emergency Clean-up.....	25,367.95	
Note: Includes 400 KW generator, 1500 CFM desiccant DH, 25 Ton DX unit, 1000 gallon fuel tank, and limited electrical distribution.		
02 90 55 00-0316 MO Dehumidification Trailer With 1,500 CFM Desiccant Unit For Emergency Clean-up.....	69,185.32	
Note: Includes 400 KW generator, 1500 CFM desiccant DH, 25 Ton DX unit, 1000 gallon fuel tank, and limited electrical distribution.		
02 90 55 00-0317	Power Equipment	<small>(02 90 55 00-0022)</small>
02 90 55 00-0318 WK Up to 65 KVA Generator For Emergency Clean-up.....	1,213.55	
02 90 55 00-0319 WK >65 to 125 KVA Generator For Emergency Clean-up.....	2,053.70	
02 90 55 00-0320 WK >125 to 250 KVA Generator For Emergency Clean-up.....	2,003.08	
02 90 55 00-0321 WK >250 to 375 KVA Generator For Emergency Clean-up.....	3,453.95	
02 90 55 00-0322 WK >375 Up to 440 KVA Generator For Emergency Clean-up.....	4,667.50	
02 90 55 00-0323 WK >440 to 625 KVA Generator For Emergency Clean-up.....	7,028.35	
02 90 55 00-0324 WK >625 to 800 KVA Generator For Emergency Clean-up.....	7,187.95	
02 90 55 00-0325 WK >800 to 1,000 KVA Generator For Emergency Clean-up.....	9,615.05	
02 90 55 00-0326 WK >1,000 to 1,500 KVA Generator For Emergency Clean-up.....	14,469.25	
02 90 55 00-0327 EA Generator Cable/Pigtails (Per Section) For Emergency Clean-up.....	31.37	
02 90 55 00-0328 EA Sub-Distribution Panel (Spider Box) For Emergency Clean-up.....	150.29	
02 90 55 00-0329 EA Electrical Distribution Panel For Emergency Clean-up.....	350.06	
02 90 55 00-0330 EA Quad Box Strings (25' Sections) For Emergency Clean-up.....	56.48	
02 90 55 00-0331 EA 50' Power Cord For Spider Box For Emergency Clean-up.....	52.28	
02 90 55 00-0332 EA Pig Tails (Per Each) For Emergency Clean-up.....	5.14	
02 90 55 00-0333	Freight Charges	<small>(02 90 55 00-0022)</small>
02 90 55 00-0334 MI Freight Up To 1 Ton Pick Up Truck For Emergency Clean-up Equipment.....	2.57	
02 90 55 00-0335 MI Freight >1 Ton Pick Up Truck For Emergency Clean-up Equipment.....	4.63	
02 90 55 00-0336 MI Freight 16' Or 24' Box Truck For Emergency Clean-up Equipment.....	4.63	
02 90 55 00-0337 MI Freight Tractor Trailer For Emergency Clean-up Equipment.....	6.69	
02 90 55 00-0338	Emergency Clean-up Personal Protection Equipment	<small>(02 90 55 00-0001)</small>
Note: Used in the performance of time and material projects. Not used in conjunction with tasks in the Cleaning, Contents Manipulation, and Water Emergency Clean-up sections.		
02 90 55 00-0339 EA Tyvek Coveralls For Emergency Clean-up Personal Protection Equipment.....	15.08	
02 90 55 00-0340 EA Tyvek Coveralls With Elastic Wrists And Ankles For Emergency Clean-up Personal Protection Equipment.....	17.78	
02 90 55 00-0341 EA Tyvek Coveralls With Hood, Elastic Wrists And Ankles For Emergency Clean-up Personal Protection Equipment.....	18.63	
02 90 55 00-0342 EA Tyvek Coveralls With Hood, Boots, Elastic Wrists And Ankles For Emergency Clean-up Personal Protection Equipment.....	23.49	
02 90 55 00-0343 EA Disposable Dual Cartridge Half-Mask Respirator For Emergency Clean-up Personal Protection Equipment.....	124.85	
02 90 55 00-0344 EA N95 Respirator For Emergency Clean-up Personal Protection Equipment.....	5.23	
02 90 55 00-0345 EA N95 Respirator With Valve For Emergency Clean-up Personal Protection Equipment.....	7.44	

02 Existing Conditions**02 90 Disaster Recovery****02 90 55 Emergency Clean-up**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

02 90 55 00-0346	PR	3M Respirator Cartridges For Emergency Clean-up Personal Protection Equipment.....	49.90
02 90 55 00-0347	EA	Respirator Cleaning Wipes, Per Box 100 For Emergency Clean-up Personal Protection Equipment	39.93
02 90 55 00-0348	PR	P100 Respirator Cartridges For Emergency Clean-up Personal Protection Equipment	49.90
02 90 55 00-0349	EA	Respirator Cartridge For Emergency Clean-up Personal Protection Equipment	52.70
02 90 55 00-0350	BOX	Dust Mask, Box of 50, For Emergency Clean-up Personal Protection Equipment.....	58.75
02 90 55 00-0351	PR	Cotton Canvas Gloves For Emergency Clean-up Personal Protection Equipment.....	4.20
02 90 55 00-0352	BOX	5 Mil, Disposable Latex Gloves, Box of 100, For Emergency Clean-up Personal Protection Equipment	27.34
02 90 55 00-0353	PR	4 Mil, Disposable Nitrile Gloves For Emergency Clean-up Personal Protection Equipment	0.56
02 90 55 00-0354	PR	5 Mil, Disposable Vinyl Gloves For Emergency Clean-up Personal Protection Equipment.....	0.47
02 90 55 00-0355	PR	17 Mil, Latex Gloves For Emergency Clean-up Personal Protection Equipment	2.22
02 90 55 00-0356	PR	15 Mil, Nitrile Gloves For Emergency Clean-up Personal Protection Equipment.....	5.28
02 90 55 00-0357	PR	Vinyl Coated Gloves With Knit Lining For Emergency Clean-up Personal Protection Equipment	7.24
02 90 55 00-0358	PR	30 Mil, Polyvinyl Chloride (PVC) And Polyvinyl Chloride (PVC) Blend Gloves For Emergency Clean-up Personal Protection Equipment	8.11
02 90 55 00-0359	PR	Leather Gloves For Emergency Clean-up Personal Protection Equipment	13.68
02 90 55 00-0360	EA	Heavy Duty, Rubber Gloves For Emergency Clean-up Personal Protection Equipment	23.35
02 90 55 00-0361	PR	Polycarbonate Lens Safety Goggles For Emergency Clean-up Personal Protection Equipment.....	15.22
02 90 55 00-0362	PR	Chemical Splash/Impact Resistant, Polycarbonate Lens Safety Goggles For Emergency Clean-up Personal Protection Equipment	25.10
02 90 55 00-0363	PR	Plastic Safety Glasses For Emergency Clean-up Personal Protection Equipment.....	6.67
02 90 55 00-0364	EA	Safety Harness (Per Person/Day) For Emergency Clean-up Personal Protection Equipment.....	9.11

02 90 55 00-0365**Emergency Clean-up Expendables** (02 90 55 00-0001)

Note: Used in the performance of time and material projects. Not used in conjunction with tasks in the Cleaning, Contents Manipulation, and Water Emergency Clean-up sections.

02 90 55 00-0366**General Materials** (02 90 55 00-0365)

02 90 55 00-0367	GAL	Adhesive Remover For Emergency Clean-up.....	109.35
02 90 55 00-0368	GAL	Bioside-HS Cleaning Solution For Emergency Clean-up.....	35.07
02 90 55 00-0369	GAL	Bioicide Mold Cleaning Solution For Emergency Clean-up	44.75
02 90 55 00-0370	EA	10" x 12" x 15" Cardboard Storage Box For Emergency Clean-up.....	5.76
02 90 55 00-0371	EA	10" x 12" x 24" Cardboard Storage Box For Emergency Clean-up.....	8.75
02 90 55 00-0372	EA	10" x 15" x 24" Cardboard Storage Box For Emergency Clean-up.....	8.75
02 90 55 00-0373	GAL	Bleach For Emergency Clean-up.....	11.76
02 90 55 00-0374	EA	Small Stainless Brush For Emergency Clean-up	7.47
02 90 55 00-0375	EA	2-1/2 Gallon Buckets For Emergency Clean-up.....	8.69
02 90 55 00-0376	EA	5 Gallon Bucket For Emergency Clean-up.....	13.17
02 90 55 00-0377	GAL	Carpet Defoamer For Emergency Clean-up	33.87
02 90 55 00-0378	GAL	Carpet Pre-treat For Emergency Clean-up	27.63
02 90 55 00-0379	GAL	Carpet Spotter For Emergency Clean-up.....	46.30
02 90 55 00-0380	GAL	Carpet/Upholstery Cleaner For Emergency Clean-up	37.34
02 90 55 00-0381	ROL	Carpet Masking/Shield For Emergency Clean-up.....	107.47
02 90 55 00-0382	EA	Chemical Sponge For Emergency Clean-up.....	4.30
02 90 55 00-0383	GAL	Clear Seal For Emergency Clean-up	147.02
02 90 55 00-0384	GAL	Coil Cleaner For Emergency Clean-up	73.99
02 90 55 00-0385	EA	Decontamination Chamber For Emergency Clean-up	321.50
02 90 55 00-0386	GAL	All Purpose Degreaser For Emergency Clean-up.....	48.11
02 90 55 00-0387	GAL	De-Foamer Liquid For Emergency Clean-up	63.24
02 90 55 00-0388	EA	Deodorization Membrane For Emergency Clean-up.....	117.94
02 90 55 00-0389	GAL	9-D-9 Smoke Deodorizer For Emergency Clean-up	189.02
02 90 55 00-0390	LB	Deodorizing Gel For Emergency Clean-up	44.41
02 90 55 00-0391	GAL	Deodorizing Liquid For Emergency Clean-up	62.54
02 90 55 00-0392	PAIL	Deodorizing Block For Emergency Clean-up	11.16
02 90 55 00-0393	GAL	Disinfectant/Anti-microbial For Emergency Clean-up.....	115.22
02 90 55 00-0394	GAL	BruClean Disinfectant For Emergency Clean-up	37.64
02 90 55 00-0395	GAL	Dryclean For Emergency Clean-up.....	49.14
02 90 55 00-0396	GAL	Duct Sealant Spray For Emergency Clean-up	74.06
02 90 55 00-0397	GAL	Antifungal Duct Sealant For Emergency Clean-up	106.98
02 90 55 00-0398	GAL	Microbial Encapsulant (Fosters 20 - 40) For Emergency Clean-up	170.46
02 90 55 00-0399	PR	Ear Plugs For Emergency Clean-up Personal Protection Equipment.....	0.67
02 90 55 00-0400	GAL	Encapsulant For Emergency Clean-up	122.48
02 90 55 00-0401	GAL	Aftershock Fiberlocke For Emergency Clean-up	107.54
02 90 55 00-0402	GAL	IAQ 2500 Fiberlocke For Emergency Clean-up	127.03
02 90 55 00-0403	GAL	IAS 6000 Fiberlocke For Emergency Clean-up.....	130.65
02 90 55 00-0404	EA	Filter Material For Emergency Clean-up	288.34
02 90 55 00-0405	EA	Blue Paper Collection Bag Filter For Emergency Clean-up.....	7.77
02 90 55 00-0406	EA	CVAC Filter For High Efficiency Particulate Air (HEPA) Vacuum For Emergency Clean-up.....	616.71
02 90 55 00-0407	EA	Pre-Filter For Negative Air Machine For Emergency Clean-up.....	2.96
02 90 55 00-0408	EA	Pleated Filter For Negative Air Machine For Emergency Clean-up	13.17
02 90 55 00-0409	EA	Charcoal Filter For Negative Air Machine For Emergency Clean-up	46.90
02 90 55 00-0410	EA	High Efficiency Particulate Air (HEPA) Filter For Negative Air Machine For Emergency Clean-up.....	446.05
02 90 55 00-0411	EA	Pleated Dehumidifier Filter For Emergency Clean-up.....	11.77
02 90 55 00-0412	GAL	Floor Stripper For Emergency Clean-up	23.04
02 90 55 00-0413	GAL	Floor Wax For Emergency Clean-up	32.92
02 90 55 00-0414	GAL	Fogger (Thermal) For Emergency Clean-up	200.48
02 90 55 00-0415	BOX	Furniture Blocks For Emergency Clean-up	161.48
02 90 55 00-0416	EA	Furniture Polish, Per 10 Oz Can For Emergency Clean-up	21.76
02 90 55 00-0417	GAL	Glass Cleaner For Emergency Clean-up	14.51
02 90 55 00-0418	EA	Goof Off Spray, 12 Oz For Emergency Clean-up	18.67
02 90 55 00-0419	EA	Halogen Light Bulbs For Emergency Clean-up.....	23.50
02 90 55 00-0420	QT	Hand Sanitizer For Emergency Clean-up	11.62



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 90 55 00-0421	EA			Hard Hats For Emergency Clean-up Personal Protection Equipment	9.57	
02 90 55 00-0422	BOX			Hog Rings, Box Of 2,500 For Emergency Clean-up	22.75	
02 90 55 00-0423	GAL			HVAC Coal Cleaner For Emergency Clean-up	71.32	
02 90 55 00-0424	BOX			Inventory Tag, Box Of 1,000 For Emergency Clean-up	160.01	
02 90 55 00-0425	EA			Utility Knives For Emergency Clean-up	18.10	
02 90 55 00-0426	ROL			13" Lay Flat Tubing (250' Roll) For Emergency Clean-up.....	137.26	
02 90 55 00-0427	ROL			20" Lay Flat Tubing (250' Roll) For Emergency Clean-up.....	144.91	
02 90 55 00-0428	ROL			29" Lay Flat Tubing (250' Roll) For Emergency Clean-up.....	288.52	
02 90 55 00-0429	ROL			39" Lay Flat Tubing (250' Roll) For Emergency Clean-up.....	417.03	
02 90 55 00-0430	GAL			Lemon Oil For Emergency Clean-up	58.32	
02 90 55 00-0431	GAL			LPS 1/Mecca Lube For Emergency Clean-up	59.81	
02 90 55 00-0432	GAL			LPS 2 For Emergency Clean-up	63.30	
02 90 55 00-0433	GAL			LPS Contact Cleaner For Emergency Clean-up	63.00	
02 90 55 00-0434	GAL			Light Lubricant Preserve For Emergency Clean-up	167.03	
02 90 55 00-0435	GAL			Heavy Lubricant Preserver For Emergency Clean-up	32.92	
02 90 55 00-0436	GAL			Machinery Cleaning Solvent For Emergency Clean-up	279.21	
02 90 55 00-0437	GAL			Metal Polishing Paste For Emergency Clean-up	30.92	
02 90 55 00-0438	GAL			MediClean® Disinfectant For Emergency Clean-up	66.52	
02 90 55 00-0439	GAL			Dri-Eaz Milgo Plus Sanitizer For Emergency Clean-up	81.65	
02 90 55 00-0440	EA			Mop Heads For Emergency Clean-up	10.36	
02 90 55 00-0441	EA			Nylon Scouring Pads For Emergency Clean-up	1.81	
02 90 55 00-0442	GAL			Odor Neutralizer For Emergency Clean-up	46.30	
02 90 55 00-0443	EA			Packing Paper, 25 LB Bundle For Emergency Clean-up	83.21	
02 90 55 00-0444	EA			Paint Brushes For Emergency Clean-up	8.23	
02 90 55 00-0445	ROL			Corrugated/Craft Paper, 48" x 250' For Emergency Clean-up	194.05	
02 90 55 00-0446	EA			Putty Knives For Emergency Clean-up.....	7.46	
02 90 55 00-0447	ROL			Red Resin Paper, 200' Roll For Emergency Clean-up	42.34	
02 90 55 00-0448	GAL			Reodorant For Emergency Clean-up	139.90	
02 90 55 00-0449	GAL			Restoracide For Emergency Clean-up.....	65.62	
02 90 55 00-0450	GAL			Rust Remover For Emergency Clean-up.....	102.06	
02 90 55 00-0451	EA			Saltesmo Test Samples For Emergency Clean-up	9.48	
02 90 55 00-0452	EA			Sand Bag For Emergency Clean-up	2.49	
				Note: Excludes sand material		
02 90 55 00-0453	EA			Scotch-Brite 7447, Per Box 50 For Emergency Clean-up.....	33.32	
02 90 55 00-0454	EA			Small Scrub Brushes For Emergency Clean-up	17.18	
02 90 55 00-0455	GAL			Clear Soot Sealant For Emergency Clean-up.....	118.36	
02 90 55 00-0456	GAL			Pigmented Soot Sealant For Emergency Clean-up	319.20	
02 90 55 00-0457	ROL			Shrinkwrap Plastic For Emergency Clean-up	73.48	
02 90 55 00-0458	EA			Dry Sponges For Emergency Clean-up	5.97	
02 90 55 00-0459	EA			Spray Adhesive, Per Can For Emergency Clean-up.....	7.66	
02 90 55 00-0460	EA			Spray Bot./Trigger For Emergency Clean-up.....	6.35	
02 90 55 00-0461	GAL			Stain Remover For Emergency Clean-up	41.82	
02 90 55 00-0462	GAL			Stainless Steel Cleaner For Emergency Clean-up.....	14.44	
02 90 55 00-0463	EA			Stainless Steel Polish, Per Can For Emergency Clean-up	18.95	
02 90 55 00-0464	LB			Sweeping Compound For Emergency Clean-up.....	0.68	
02 90 55 00-0465	ROL			Duct Tape, 2" x 50 YD For Emergency Clean-up	15.00	
02 90 55 00-0466	ROL			Environmental (Teal) Tape, 3/4" x 1,440' For Emergency Clean-up	14.11	
02 90 55 00-0467	ROL			HVAC (Aluminum) Tape, 2" x 75' For Emergency Clean-up.....	36.21	
02 90 55 00-0468	ROL			Blue Masking (Painters) Tape, 1-1/2" x 198' For Emergency Clean-up	20.08	
02 90 55 00-0469	ROL			Poly Box Tape, 2" x 110 YD For Emergency Clean-up.....	6.19	
02 90 55 00-0470	LB			Terry Towels For Emergency Clean-up	8.48	
02 90 55 00-0471	GAL			Thermal Fog For Emergency Clean-up	94.10	
02 90 55 00-0472	ROL			1.7 Mil, 55 Gallon Trash Bags, 50/Roll For Emergency Clean-up	46.66	
02 90 55 00-0473	ROL			3 Mil, 55 Gallon Trash Bags, 50/Roll For Emergency Clean-up	109.04	
02 90 55 00-0474	ROL			4 Mil, 55 Gallon Trash Bags, 50/Roll For Emergency Clean-up	139.90	
02 90 55 00-0475	ROL			6 Mil, 55 Gallon Trash Bags, 50/Roll For Emergency Clean-up	186.07	
02 90 55 00-0476	EA			Trisodium Phosphate, 20 LB Pail For Emergency Clean-up.....	60.06	
02 90 55 00-0477	EA			Backpack Vacuum Bags For Emergency Clean-up	2.02	
02 90 55 00-0478	EA			Upright Vacuum Bags For Emergency Clean-up	2.70	
02 90 55 00-0479	GAL			Vinyl And Leather Cleaner For Emergency Clean-up	37.34	
02 90 55 00-0480	ROL			1 Mil Visqueen, 12' x 400', For Emergency Clean-up	60.44	
02 90 55 00-0481	ROL			4 Mil Visqueen, 32' x 100', For Emergency Clean-up	164.13	
02 90 55 00-0482	ROL			6 Mil Visqueen, 32' x 400', For Emergency Clean-up	223.95	
02 90 55 00-0483	LB			Wipes, Cotton Cloth For Emergency Clean-up	6.35	
02 90 55 00-0484	ROL			12" x 750', Wrap, Bubble/Anti-static For Emergency Clean-up.....	184.33	
02 90 55 00-0485	EA			Wyp-Alls, Case Of 160 Wipes For Emergency Clean-up.....	18.67	
02 90 55 00-0486	EA			Zip Wall Zippers For Emergency Clean-up	27.98	
02 90 55 00-0487	EA			Absorbent Matt Roll For Oil And Other Liquids - 15" Wide x 50' Roll	33.53	
				Note: 3.3 gallon volume absorption capacity per roll		
02 90 55 00-0488	EA			Oil Only Sorbent Pads - 15" x 19", Light, Package Of 100	50.29	
				Note: 26 OZ volume absorption capacity per pad		
02 90 55 00-0489	EA			Oil Only Sorbent Pads - 15" x 19", Medium, Package Of 100.....	52.99	
				Note: 33 OZ volume absorption capacity per pad		
02 90 55 00-0490	EA			Oil Only Sorbent Pads - 15" x 19", Heavy, Package Of 100.....	86.52	
				Note: 45 OZ volume absorption capacity per pad		
02 90 55 00-0491				Technical/Electronics Restoration Materials (02 90 55 00-0365)		
02 90 55 00-0492	EA			Brush - Brass For Emergency Clean-up	6.17	
02 90 55 00-0493	EA			1" Brush, Natural Bristle For Emergency Clean-up.....	1.98	
02 90 55 00-0494	EA			1/2" Brush, Natural Bristle For Emergency Clean-up.....	1.65	

02 Existing Conditions**02 90 Disaster Recovery****02 90 55 Emergency Clean-up**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
------------------------------	---------------------------	-------------------------

02 90 55 00-0495	EA	1/4" Brush, Natural Bristle For Emergency Clean-up	1.40	
02 90 55 00-0496	EA	Brush - Parts For Emergency Clean-up	8.56	
02 90 55 00-0497	EA	Brush - Plastic For Emergency Clean-up	4.44	
02 90 55 00-0498	EA	Brush - Wire Grout For Emergency Clean-up	9.80	
02 90 55 00-0499	EA	Brushing Tool For Emergency Clean-up	18.90	
02 90 55 00-0500	EA	Cleaning Swabs, Cotton For Emergency Clean-up	0.41	
02 90 55 00-0501	EA	Cleaning Swabs, Foam Tip For Emergency Clean-up	0.49	
02 90 55 00-0502	EA	Contact Restorer, Per Can For Emergency Clean-up	37.42	
02 90 55 00-0503	EA	Contact Spray, Per Can For Emergency Clean-up	25.46	
02 90 55 00-0504	UNT	Corrosion Inhibitor Emitter - 1 CF For Emergency Clean-up	3.95	
02 90 55 00-0505	UNT	Corrosion Inhibitor Emitter - 5 CF For Emergency Clean-up	11.32	
02 90 55 00-0506	UNT	Corrosion Inhibitor Emitter - 10 CF For Emergency Clean-up	14.66	
02 90 55 00-0507	LB	Cotton Cleaning Cloths For Emergency Clean-up	23.14	
02 90 55 00-0508	EA	12" x 17" Dust Cloths For Emergency Clean-up	0.37	
02 90 55 00-0509	EA	24" x 24" Dust Cloths For Emergency Clean-up	1.01	
02 90 55 00-0510	EA	Deoxidizing Agent, Per Can For Emergency Clean-up	18.13	
02 90 55 00-0511	GAL	Electronic Grade Detergent For Emergency Clean-up	42.01	
02 90 55 00-0512	SHT	Inventory Labels For Emergency Clean-up	0.22	
02 90 55 00-0513	GAL	Isopropyl Alcohol For Emergency Clean-up	111.32	
02 90 55 00-0514	GAL	Lubrication/Penetrating Oil, Per Can For Emergency Clean-up	168.42	
02 90 55 00-0515	GAL	PC Board Detergent For Emergency Clean-up	105.69	
02 90 55 00-0516	GAL	Rust Inhibitor, Regular Duty For Emergency Clean-up	180.43	
02 90 55 00-0517	GAL	Rust Inhibitor, Moderate Duty For Emergency Clean-up	181.78	
02 90 55 00-0518	GAL	Rust Inhibitor, Severe Duty For Emergency Clean-up	194.30	
02 90 55 00-0519	LB	Wipes, Lint Free Cloths For Emergency Clean-up	7.34	
02 90 55 00-0520	EA	Wire Marker Card For Emergency Clean-up	2.88	
02 90 55 00-0521	EA	Steel Wool, 16 Pad Sleeve For Emergency Clean-up	1.58	

END OF SECTION 02



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
------------------------------	---------------------------	-------------------------

03 Concrete

03 01 Maintenance of Concrete ⁽⁰³⁾

03 01 30 Maintenance of Cast-In-Place Concrete ^(03 01)

03 01 30 51 Cleaning of Cast-In-Place Concrete ^(03 01 30)

03 01 30 51-0001	Abrasive Blasting ^(03 01 30 51) Note: Includes containment and clean-up of all material. Includes steel ball media.	
03 01 30 51-0002	SF Concrete Floors, Abrasive Shot (Bead) Blasting.....	3.71
	For Up To 100, Add	3.04
	For >100 To 250, Add	0.76
	For >250 To 500, Add	0.38
	For >5,000 To 10,000, Deduct	-0.08
	For >10,000, Deduct	-0.15
03 01 30 51-0003	SF Concrete Walls, Abrasive Shot (Bead) Blasting.....	5.24
	For Up To 100, Add	6.10
	For >100 To 250, Add	1.53
	For >250 To 500, Add	0.76
	For >5,000 To 10,000, Deduct	-0.15
	For >10,000, Deduct	-0.31

03 01 30 71 Rehabilitation of Cast-In-Place Concrete ^(03 01 30)

03 01 30 71-0001	Concrete Resurfacing/Repair ^(03 01 30 71)	
03 01 30 71-0002	Concrete Repair ^(03 01 30 71-0001)	
03 01 30 71-0003	Decks Or Floors ^(03 01 30 71-0002) Note: Includes bonding agent and sealant. Excludes saw cutting, sand blasting and forming.	
03 01 30 71-0004	SF Patch Decks Or Floors With 1/8" To 1/4" Thick Cementitious Mortar	7.32
03 01 30 71-0005	SF Patch Decks Or Floors With 1/8" To 1/4" Thick Epoxy Cementitious Mortar	26.23
03 01 30 71-0006	SF Patch Decks Or Floors With White Aluminum Oxide Grit (Non-Slip Aggregate).....	0.70
03 01 30 71-0007	Verticals Or Overheads ^(03 01 30 71-0002) Note: Includes bonding agent and sealant. Excludes saw cutting, sand blasting and forming.	
03 01 30 71-0008	SF Patch Verticals Or Overheads With 1/8" To 1/4" Thick Cementitious Mortar	10.76
03 01 30 71-0009	SF Patch Verticals Or Overheads With 1/8" To 1/4" Thick Epoxy Cementitious Mortar	33.89
03 01 30 71-0010	SF Patch Verticals Or Overheads With 1/8" To 1/4" Thick Latex Cementitious Mortar	38.69
03 01 30 71-0011	SF Patch Verticals Or Overheads With 1/8" To 1/4" Thick Elastomeric Compound	8.88
03 01 30 71-0012	SF Patch Verticals Or Overheads With 1/8" To 1/4" Thick Copolymer Cementitious Compound	15.74
	Note: Rapid Set - WunderFixx	
03 01 30 71-0013	Circular Piers ^(03 01 30 71-0002)	
03 01 30 71-0014	SF Patch Circular Piers With 1/8" To 1/4" Elastomeric Patching Compound	12.29
03 01 30 71-0015	SF Patch Circular Piers With 1/8" To 1/4" Copolymer Cementitious Compound.....	21.20
	Note: Rapid Set - WunderFixx	
03 01 30 71-0016	Bridge Deck Treatment ^(03 01 30 71-0002)	
03 01 30 71-0017	SF Sweep Bridge Deck	0.02
03 01 30 71-0018	SF Clean Bridge Deck.....	0.03
03 01 30 71-0019	SF Treat Bridge Deck With Methacrylate Resin Sealant	2.22
03 01 30 71-0020	Concrete Finishes ^(03 01 30 71-0001)	
03 01 30 71-0021	Concrete Patching ^(03 01 30 71-0020)	
03 01 30 71-0022	Walls ^(03 01 30 71-0021)	
03 01 30 71-0023	BAG Sika Top 111 Plus.....	172.40
	Note: SikaTop 111 PLUS is a two-component, polymer-modified, portland-cement, fast-setting, screed mortar. Yield: Approximately 0.5 cu. ft./unit. Approximately 0.75 cu. ft./unit (SikaTop 111 + 42 lbs. of 3/8" pea gravel).	
	For Up To 10, Add	63.45
	For >10 To 25, Add	38.07
	For >25 To 50, Add	25.38
	For >50 To 75, Add	12.69
03 01 30 71-0024	BAG Sika Grout 212, 50 LB Bag.....	118.27
	Note: SikaGrout 212 is a non-shrink, cementitious grout with a unique 2-stage shrinkage compensating mechanism. It is non-metallic and contains no chloride. Coverage: Approximately 0.44 cu. ft./bag at high flow.	
	For Up To 10, Add	40.17
	For >10 To 25, Add	24.10
	For >25 To 50, Add	16.07
	For >50 To 75, Add	8.03
03 01 30 71-0025	EA Sika Flex 1A, 10.3 Ounce Tube.....	39.74
	Note: Sikaflex-1a is a premium-grade, high-performance, moisture-cured, 1-component, polyurethane-based, non-sag elastomeric sealant. Coverage: 10.3 fl. oz. cartridge seals 12.4 lineal ft. of 1/2 x 1/4 in. joint. 20 fl. oz. uni-pac sausage seals 24 lineal ft. of 1/2 x 1/4 in. joint.	

03 Concrete**03 01 Maintenance of Concrete****03 01 30 Maintenance of Cast-In-Place Concrete**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 01 30 71-0026 BAG Pea Gravel.....	30.25	
03 01 30 71-0027 Crack Repair For Concrete (03 01 30 71-0001)		
03 01 30 71-0028 Non-Structural Crack Repair For Concrete (03 01 30 71-0027)		
03 01 30 71-0029 Surface Applied, Non-Structural Crack Repair For Concrete (03 01 30 71-0028)		
Note: Includes removing all debris and contaminants accessible within the crack using hand tools, water blasting, compressed air or vacuuming. Includes installing sealer with caulk gun, cartridge gun, squeeze bottle, etc. Excludes backer rod and sanding.		
03 01 30 71-0030 LF Up To 1/4" Wide, Latex Emulsion, Gravity Fed Non-Structural Crack Repair For Concrete, Surface Applied With Squeeze Tube (Quikrete® Concrete Crack Seal).....	6.10	
For V-Grooving Crack With Grinder, Add	4.86	
03 01 30 71-0031 LF >1/4" To 1/2" Wide, Latex Emulsion, Gravity Fed Non-Structural Crack Repair For Concrete, Surface Applied With Squeeze Tube (Quikrete® Concrete Crack Seal).....	8.01	
For V-Grooving Crack With Grinder, Add	4.75	
03 01 30 71-0032 LF Up To 1/4" Wide, Sanded Acrylic Latex, Gravity Fed Non-Structural Crack Repair For Concrete, Surface Applied With Caulk Gun (Quikrete® Concrete Repair).....	6.24	
For V-Grooving Crack With Grinder, Add	4.86	
03 01 30 71-0033 LF >1/4" To 1/2" Wide, Sanded Acrylic Latex, Gravity Fed Non-Structural Crack Repair For Concrete, Surface Applied With Caulk Gun (Quikrete® Concrete Repair).....	8.28	
For V-Grooving Crack With Grinder, Add	4.75	
03 01 30 71-0034 LF Up To 1/4" Wide, Self Leveling Polyurethane Sealant, Gravity Fed Non-Structural Crack Repair For Concrete, Surface Applied With Cartridge Tool (Sikaflex® Self-Leveling Sealant).....	6.74	
For V-Grooving Crack With Grinder, Add	4.86	
03 01 30 71-0035 LF >1/4" To 1/2" Wide, Self Leveling Polyurethane Sealant, Gravity Fed Non-Structural Crack Repair For Concrete, Surface Applied With Cartridge Tool (Sikaflex® Self-Leveling Sealant).....	9.29	
For V-Grooving Crack With Grinder, Add	4.75	
03 01 30 71-0036 LF Up To 1/4" Wide, Non-Sag Elastomeric Polyurethane Sealant, Gravity Fed Non Structural Crack Repair For Concrete, Surface Applied With Cartridge Tool (Sikaflex® Concrete Fix).....	7.11	
For V-Grooving Crack With Grinder, Add	4.86	
03 01 30 71-0037 LF >1/4" To 1/2" Wide, Non-Sag Elastomeric Polyurethane Sealant, Gravity Fed Non Structural Crack Repair For Concrete, Surface Applied With Cartridge Tool (Sikaflex® Concrete Fix).....	10.02	
For V-Grooving Crack With Grinder, Add	4.75	
03 01 30 71-0038 Pressure Injected, Non-Structural Crack Repair For Concrete (03 01 30 71-0028)		
Note: Includes removing all debris and contaminants accessible within the crack using hand tools, water blasting, compressed air or vacuuming. Includes installing injection ports, sealing the crack opening (one side only), injecting the crack with polyurethane and restoring the sealed surface to flush conditions. Excludes disposal.		
03 01 30 71-0039 LF Up To 1/4" Wide, Water Activated Polyurethane Foam Grout, Non-Structural Crack Repair For Concrete, Installed With Automated Injection Equipment (SealBoss 1570).....	28.75	
For Cracks Accessible From Both Sides, Add	5.86	
03 01 30 71-0040 Structural Crack Repair For Concrete (03 01 30 71-0027)		
03 01 30 71-0041 Surface Applied, Structural Crack Repair For Concrete (03 01 30 71-0040)		
Note: Includes removing all debris and contaminants accessible within the crack using hand tools, water blasting, compressed air or vacuuming. Excludes disposal.		
03 01 30 71-0042 LF Up To 1/4" Wide, Low Viscosity, High Strength Epoxy Resin, Gravity Fed Structural Crack Repair For Concrete, Surface Applied With Trowel (Sikadur® 35).....	7.20	
For V-Grooving Crack With Grinder, Add	4.86	
03 01 30 71-0043 LF >1/4" To 1/2" Wide, Low Viscosity, High Strength Epoxy Resin, Gravity Fed Structural Crack Repair For Concrete, Surface Applied With Trowel (Sikadur® 35).....	10.21	
For V-Grooving Crack With Grinder, Add	4.75	
03 01 30 71-0044 LF Up To 1/4" Wide, Moisture Tolerant, Low Viscosity, High Strength Epoxy Resin, Gravity Fed Structural Crack Repair For Concrete, Surface Applied Trowel (Sikadur® 52).....	7.01	
For V-Grooving Crack With Grinder, Add	4.86	
03 01 30 71-0045 LF >1/4" To 1/2" Wide, Moisture Tolerant, Low Viscosity, High Strength Epoxy Resin, Gravity Fed Structural Crack Repair For Concrete, Surface Applied With Trowel (Sikadur® 52).....	9.82	
For V-Grooving Crack With Grinder, Add	4.75	
03 01 30 71-0046 LF Up To 1/4" Wide, Low Viscosity, High Strength Epoxy Resin, Gravity Fed Structural Crack Repair For Concrete, Surface Applied With Caulk Gun (Sikadur® Crack Fix).....	8.64	
For V-Grooving Crack With Grinder, Add	4.86	
03 01 30 71-0047 LF >1/4" To 1/2" Wide, Low Viscosity, High Strength Epoxy Resin, Gravity Fed Structural Crack Repair For Concrete, Surface Applied With Caulk Gun (Sikadur® Crack Fix).....	13.10	
For V-Grooving Crack With Grinder, Add	4.75	
03 01 30 71-0048 Pressure Injected, Structural Crack Repair For Concrete (03 01 30 71-0040)		
Note: Includes removing all debris and contaminants accessible within the crack using hand tools, water blasting, compressed air or vacuuming. Includes installing injection ports, sealing the crack opening (one side only), injecting the crack with epoxy and restoring the sealed surface to flush conditions. Excludes disposal.		
03 01 30 71-0049 LF Up To 1/4" Wide, Low Viscosity, High Strength Epoxy Resin, Structural Crack Repair For Concrete, Installed With Automated Injection Equipment (Sikadur® 35).....	24.81	
For Cracks Accessible From Both Sides, Add	5.86	
03 01 30 71-0050 LF Up To 1/4" Wide, Moisture Tolerant, Low Viscosity, High Strength Epoxy Resin, Structural Crack Repair For Concrete, Installed With Automated Injection Equipment (Sikadur® 52).....	24.62	
For Cracks Accessible From Both Sides, Add	5.86	
03 01 30 71-0051 Pool Deck Texture Repair (03 01 30 71-0001)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 01 30 71-0052 SF Pool Deck Texture Repair.....	19.17	
Note: Includes surface preparation, cleaning, repair of surface, crack repair, liquid underlayment coat, troweled top coat and finish.		
03 01 30 71-0053 Carbon Fiber Strengthening System (03 01 30 71-0001)		
Note: Includes preparing surface, dust and debris removal by hand, clean and protect adjacent area, fill voids, primer, fabric substrate layers, final coat of epoxy and finish. Excludes disposal.		
03 01 30 71-0054 SF Carbon Fiber Strengthening System For Concrete Beams, Per Layer	88.71	
Note: Includes carbon fabric epoxy saturant, primer, filler for voids, anchors, finish.		
03 01 30 71-0055 SF Carbon Fiber Strengthening System For Concrete Columns, Per Layer	78.48	
Note: Includes carbon fabric epoxy saturant, primer, filler for voids, anchors, finish.		
03 01 30 71-0056 SF Carbon Fiber Strengthening System For Concrete Ceiling Slabs, Per Layer	72.73	
Note: Includes carbon fabric epoxy saturant, primer, filler for voids, anchors, finish.		
03 01 30 71-0057 SF Carbon Fiber Strengthening System For Concrete Walls, Per Layer.....	69.53	
Note: Includes carbon fabric epoxy saturant, primer, filler for voids, anchors, finish.		
03 01 30 71-0058 SF Carbon Fiber Strengthening System For Concrete Slab, Per Layer	65.05	
Note: Includes carbon fabric epoxy saturant, primer, filler for voids, anchors, finish.		
03 01 30 71-0059 Corrosive Inhibitor (03 01 30 71)		
03 01 30 71-0060 SF Corrosive Inhibitor.....	5.98	
03 01 30 72 Strengthening Of Cast-in-Place Concrete (03 01 30)		
03 01 30 72-0001 Concrete Surface Repairs (03 01 30 72)		
03 01 30 72-0002 SF Sound The Concrete Surface To Locate Delaminated Areas	0.37	

03 05 Common Work Results For Concrete (03)

03 05 13 Concrete Admixtures (03 05)

03 05 13 00-0001 Concrete Admixtures (03 05 13)		
03 05 13 00-0002 CY Low Range Water Reducing (LRWR), Type A Concrete Admixture	10.47	
03 05 13 00-0003 CY Set Retarding, Type B Concrete Admixture	7.25	
03 05 13 00-0004 CY 1% Calcium Chloride Accelerating, Type C Concrete Admixture.....	11.28	
03 05 13 00-0005 CY 2% Calcium Chloride Accelerating, Type C Concrete Admixture.....	22.56	
03 05 13 00-0006 CY 1% Non-Chloride Accelerating, Type C Concrete Admixture.....	20.14	
03 05 13 00-0007 CY 2% Non-Chloride Accelerating, Type C Concrete Admixture.....	40.28	
03 05 13 00-0008 CY 1% Water Reducing and Retarding (Hydration Stabilizer), Type D Concrete Admixture	8.70	
03 05 13 00-0009 CY 2% Water Reducing and Retarding (Hydration Stabilizer), Type D Concrete Admixture	16.96	
03 05 13 00-0010 CY 1% Water Reducing and Accelerating (High Early Strength), Type E Concrete Admixture	12.08	
03 05 13 00-0011 CY 2% Water Reducing and Accelerating (High Early Strength), Type E Concrete Admixture	24.17	
03 05 13 00-0012 CY Mid Range Water Reducing (MRWR) Superplasticizer, Type A Or E Concrete Admixture	8.06	
03 05 13 00-0013 CY High Range Water Reducing (HRWR) Superplasticizer, Type F Concrete Admixture.....	19.33	
03 05 13 00-0014 CY 1 LB/CY Polyethylene, Polypropylene, Nylon, Synthetic Plastic Fibers, Concrete Admixture	17.19	
03 05 13 00-0015 CY 1-1/2 LB/CY Polyethylene, Polypropylene, Nylon, Synthetic Plastic Fibers, Concrete Admixture	25.78	
03 05 13 00-0016 CY 25 LB/CY Steel Fibers, Concrete Admixture.....	42.43	
03 05 13 00-0017 CY 10% Microsilica (Silica Fume), Concrete Admixture	128.89	
03 05 13 00-0018 CY Corrosion Inhibiting Concrete Admixture	48.33	
03 05 13 00-0019 CY Winter Service Or Heat, Concrete Add	25.78	
03 05 13 00-0020 CY Chilled Water, Concrete Add	25.78	
03 05 13 00-0021 CY Subtle Color (See Davis Colors Color Card), Concrete Admixture	37.77	
03 05 13 00-0022 CY Standard Color (See Davis Colors Color Card), Concrete Admixture.....	62.95	
03 05 13 00-0023 CY Premium Color (See Davis Colors Color Card), Concrete Admixture.....	120.86	
03 05 13 00-0024 CY Ultra Premium Color (See Davis Colors Color Card), Concrete Admixture	167.86	

03 10 Concrete Forming and Accessories (03)

03 11 Concrete Forming (03 10)

03 11 13 Structural Cast-In-Place Concrete Forming (03 11)

Note: Per square foot of formwork.

03 11 13 00-0001 Wood Formwork (03 11 13)		
Note: For job built wood and/or plywood form systems where metal framed formwork cannot be used. Includes erecting, stripping, stacking, plywood, framing lumber, oiling, studs/walers, strongbacks, deadmen, supporting braces, turnbuckles, ties, and clips.		
03 11 13 00-0002 Foundation Wood Formwork (03 11 13 00-0001)		
Note: For foundation work below or at grade.		
03 11 13 00-0003 SF Continuous Footings Foundation Wood Formwork.....	9.02	
For <1,000, Add		
	1.68	
For Foundations >8' Below Grade, Add		
	1.61	
For Curved Formwork, Add		
	3.22	
03 11 13 00-0004 SF Pile Cap, Pier Or Spread Footings Foundation Wood Formwork.....	10.72	
For <1,000, Add		
	2.01	
For Foundations >8' Below Grade, Add		
	1.94	
For Curved Formwork, Add		
	3.88	

03 Concrete**03 10 Concrete Forming and Accessories****03 11 Concrete Forming**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 11 13 00-0005 SF Mat Foundation Wood Formwork.....	12.23	
For <1,000, Add	2.34	
For Foundations >8' Below Grade, Add	2.28	
For Curved Formwork, Add	4.56	
03 11 13 00-0006 SF Grade Beams Or Duct Bank Foundation Wood Formwork	10.23	
For <1,000, Add	1.94	
For Foundations >8' Below Grade, Add	1.88	
For Curved Formwork, Add	3.76	
03 11 13 00-0007 SF Below Grade Walls Foundation Wood Formwork	14.58	
Note: Excludes footing		
For <1,000, Add	2.75	
For Foundations >8' Below Grade, Add	2.66	
For Curved Formwork, Add	5.33	
03 11 13 00-0008 Slab Edge And Block-Out Wood Formwork (03 11 13 00-0001)		
03 11 13 00-0009 LF Up To 6" High Slab Edge and Block-Out Wood Formwork	6.93	
For Foundations >8' Below Grade, Add	1.28	
For Curved Formwork, Add	2.57	
For Up To 250, Add	1.32	
03 11 13 00-0010 LF >6" To 12" High Slab Edge and Block-Out Wood Formwork	9.97	
For Foundations >8' Below Grade, Add	1.79	
For Curved Formwork, Add	3.58	
For Up To 250, Add	1.86	
03 11 13 00-0011 SF >12" High Slab Edge and Block-Out Wood Formwork.....	12.65	
For Foundations >8' Below Grade, Add	2.31	
For Curved Formwork, Add	4.62	
For <1,000, Add	2.38	
03 11 13 00-0012 Column Wood Formwork (03 11 13 00-0001)		
03 11 13 00-0013 LF Up To 8" Square Column Wood Formwork.....	53.80	
03 11 13 00-0014 LF >8" To 12" Square Column Wood Formwork.....	77.94	
03 11 13 00-0015 LF >12" To 18" Square Column Wood Formwork.....	97.62	
03 11 13 00-0016 LF >18" To 24" Square Column Wood Formwork.....	139.70	
03 11 13 00-0017 LF >24" To 36" Square Column Wood Formwork.....	200.27	
03 11 13 00-0018 LF >36" To 48" Square Column Wood Formwork.....	264.23	
03 11 13 00-0019 Above Grade Wall Wood Formwork (03 11 13 00-0001)		
03 11 13 00-0020 SF Up To 8' High Above Grade Wall Wood Formwork.....	16.29	
For Curved Formwork, Add	6.01	
For <1,000, Add	3.09	
03 11 13 00-0021 SF >8' High Above Grade Wall Wood Formwork	19.32	
For Curved Formwork, Add	7.13	
For <1,000, Add	3.67	
03 11 13 00-0022 Elevated Beam Wood Formwork (03 11 13 00-0001)		
Note: Includes adjustable shores and column supports and bracing lumber up to 14' for bottom of elevated beam.		
03 11 13 00-0023 SF Bottom of Elevated Beam Wood Formwork	21.33	
For Curved Formwork, Add	7.84	
For <1,000, Add	4.04	
03 11 13 00-0024 SF Vertical Sides of Elevated Beam Wood Formwork	13.48	
For Curved Formwork, Add	5.00	
For <1,000, Add	2.57	
03 11 13 00-0025 Elevated Slab Wood Formwork (03 11 13 00-0001)		
Note: Includes adjustable shores and column supports and bracing lumber up to 14' for bottom of elevated slab.		
03 11 13 00-0026 SF Elevated Slab Wood Formwork	12.61	
For <1,000, Add	2.31	
03 11 13 00-0027 Metal Framed Formwork (03 11 13)		
Note: For all metal framed and metal form systems. Includes erecting, stripping, stacking, oiling, studs/walers, strongbacks, deadmen, supporting braces, turnbuckles, ties, and clips.		
03 11 13 00-0028 Foundation Metal Framed Formwork (03 11 13 00-0027)		
Note: For foundation work below or at grade.		
03 11 13 00-0029 SF Continuous Footings Foundation Metal Framed Formwork	8.17	
For <1,000, Add	1.51	
For Foundations >8' Below Grade, Add	1.45	
For Curved Formwork, Add	2.90	
03 11 13 00-0030 SF Pile Cap, Pier Or Spread Footings Foundation Metal Framed Formwork	9.07	
For <1,000, Add	1.69	
For Foundations >8' Below Grade, Add	1.63	
For Curved Formwork, Add	3.25	
03 11 13 00-0031 SF Mat Foundation Metal Framed Formwork	10.13	
For <1,000, Add	1.87	
For Foundations >8' Below Grade, Add	1.79	
For Curved Formwork, Add	3.58	



Concrete	03	CS	
Concrete Forming and Accessories			03 10
Concrete Forming			03 11

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 11 13 00-0032 SF Grade Beams Or Duct Bank Foundation Metal Framed Formwork .....8.56 <i>For <1,000, Add</i> 1.58 <i>For Foundations >8' Below Grade, Add</i> 1.51 <i>For Curved Formwork, Add</i> 3.01		
03 11 13 00-0033 SF Below Grade Walls Foundation Metal Framed Formwork .....13.06 <i>Note: Excludes footing.</i> <i>For <1,000, Add</i> 2.44 <i>For Foundations >8' Below Grade, Add</i> 2.36 <i>For Curved Formwork, Add</i> 4.71		
03 11 13 00-0034 Slab Edge And Block-Out Metal Framed Formwork (03 11 13 00-0027) .....5.86		
03 11 13 00-0035 LF Up To 6" High Slab Edge and Block-Out Metal Framed Formwork .....5.86 <i>For Foundations >8' Below Grade, Add</i> 1.14 <i>For Curved Formwork, Add</i> 2.29 <i>For <250, Add</i> 1.15		
03 11 13 00-0036 LF >6" To 12" High Slab Edge and Block-Out Metal Framed Formwork .....7.33 <i>For Foundations >8' Below Grade, Add</i> 1.42 <i>For Curved Formwork, Add</i> 2.84 <i>For <250, Add</i> 1.44		
03 11 13 00-0037 SF >12" High Slab Edge and Block-Out Metal Framed Formwork .....8.11 <i>For Foundations >8' Below Grade, Add</i> 1.57 <i>For Curved Formwork, Add</i> 3.14 <i>For <1,000, Add</i> 1.59		
03 11 13 00-0038 Column Metal Framed Formwork (03 11 13 00-0027)		
03 11 13 00-0039 Square Columns (03 11 13 00-0038)		
03 11 13 00-0040 LF Up To 12" Square Column Metal Framed Formwork .....49.57		
03 11 13 00-0041 LF >12" To 16" Square Column Metal Framed Formwork .....59.86		
03 11 13 00-0042 LF >16" To 20" Square Column Metal Framed Formwork .....70.18		
03 11 13 00-0043 LF >20" To 24" Square Column Metal Framed Formwork .....83.88		
03 11 13 00-0044 LF >24" To 30" Square Column Metal Framed Formwork .....101.03		
03 11 13 00-0045 LF >30" To 36" Square Column Metal Framed Formwork .....121.28		
03 11 13 00-0046 LF >36" To 48" Square Column Metal Framed Formwork .....155.58		
03 11 13 00-0047 LF >48" To 60" Square Column Metal Framed Formwork .....191.84		
03 11 13 00-0048 Round Columns (03 11 13 00-0038)		
03 11 13 00-0049 LF Up To 12" Diameter Column Metal Formwork .....47.72		
03 11 13 00-0050 LF >12" To 16" Diameter Column Metal Formwork .....53.15		
03 11 13 00-0051 LF >16" To 20" Diameter Column Metal Formwork .....61.09		
03 11 13 00-0052 LF >20" To 24" Diameter Column Metal Formwork .....71.38		
03 11 13 00-0053 LF >24" To 30" Diameter Column Metal Formwork .....84.37		
03 11 13 00-0054 LF >30" To 36" Diameter Column Metal Formwork .....96.70		
03 11 13 00-0055 LF >36" To 48" Diameter Column Metal Formwork .....124.98		
03 11 13 00-0056 LF >48" To 60" Diameter Column Metal Formwork .....162.15		
03 11 13 00-0057 Above Grade Wall Metal Framed Formwork (03 11 13 00-0027)		
03 11 13 00-0058 SF Up to 8' High Above Grade Wall Metal Framed Formwork .....7.98 <i>For Curved Formwork, Add</i> 2.68 <i>For <1,000, Add</i> 1.43		
03 11 13 00-0059 SF >8' High Above Grade Wall Metal Framed Formwork .....9.72 <i>For Curved Formwork, Add</i> 3.23 <i>For <1,000, Add</i> 1.73		
03 11 13 00-0060 Elevated Beam Metal Framed Formwork (03 11 13 00-0027) <i>Note: Includes adjustable shores and column supports and bracing lumber up to 14' for bottom of elevated beam.</i>		
03 11 13 00-0061 SF Bottom of Elevated Beam Metal Framed Formwork .....8.00 <i>For Curved Formwork, Add</i> 2.51 <i>For <1,000, Add</i> 1.37		
03 11 13 00-0062 SF Vertical Sides of Elevated Beam Metal Framed Formwork .....5.93 <i>For Curved Formwork, Add</i> 1.96 <i>For <1,000, Add</i> 1.05		
03 11 13 00-0063 Elevated Slab Metal Framed Formwork (03 11 13 00-0027) <i>Note: Includes adjustable shores and column supports and bracing lumber up to 14' for bottom of elevated slab.</i>		
03 11 13 00-0064 SF Elevated Slab Metal Framed Formwork .....10.95 <i>For <1,000, Add</i> 1.67		
03 11 13 00-0065 Fiber Tube Formwork (03 11 13) <i>Note: Includes all supporting braces, erecting, aligning, stripping, turnbuckles, ties and clips.</i>		
03 11 13 00-0066 Round Column Fiber Tube Formwork (03 11 13 00-0065)		
03 11 13 00-0067 LF 6" Diameter Round Fiber Tube Formwork .....20.51 <i>For Plastic Lined, Add</i> 0.71 <i>For Columns >12' In Length, Add</i> 2.05		

03 Concrete**03 10 Concrete Forming and Accessories****03 11 Concrete Forming**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 11 13 00-0068 LF 8" Diameter Round Fiber Tube Formwork	21.62	
For Plastic Lined, Add	0.84	
For Columns >12' In Length, Add	2.16	
03 11 13 00-0069 LF 10" Diameter Round Fiber Tube Formwork	24.01	
For Plastic Lined, Add	1.01	
For Columns >12' In Length, Add	2.40	
03 11 13 00-0070 LF 12" Diameter Round Fiber Tube Formwork	29.45	
For Plastic Lined, Add	1.79	
For Columns >12' In Length, Add	2.95	
03 11 13 00-0071 LF 14" Diameter Round Fiber Tube Formwork	32.97	
For Plastic Lined, Add	2.27	
For Columns >12' In Length, Add	3.30	
03 11 13 00-0072 LF 16" Diameter Round Fiber Tube Formwork	35.74	
For Plastic Lined, Add	2.83	
For Columns >12' In Length, Add	3.57	
03 11 13 00-0073 LF 18" Diameter Round Fiber Tube Formwork	38.35	
For Plastic Lined, Add	3.30	
For Columns >12' In Length, Add	3.84	
03 11 13 00-0074 LF 20" Diameter Round Fiber Tube Formwork	43.33	
For Plastic Lined, Add	4.49	
For Columns >12' In Length, Add	4.33	
03 11 13 00-0075 LF 22" Diameter Round Fiber Tube Formwork	45.36	
For Plastic Lined, Add	4.67	
For Columns >12' In Length, Add	4.54	
03 11 13 00-0076 LF 24" Diameter Round Fiber Tube Formwork	47.63	
For Plastic Lined, Add	4.93	
For Columns >12' In Length, Add	4.76	
03 11 13 00-0077 LF 26" Diameter Round Fiber Tube Formwork	49.50	
For Plastic Lined, Add	5.32	
For Columns >12' In Length, Add	4.95	
03 11 13 00-0078 LF 28" Diameter Round Fiber Tube Formwork	51.36	
For Plastic Lined, Add	5.71	
For Columns >12' In Length, Add	5.14	
03 11 13 00-0079 LF 30" Diameter Round Fiber Tube Formwork	53.23	
For Plastic Lined, Add	6.10	
For Columns >12' In Length, Add	5.32	
03 11 13 00-0080 LF 36" Diameter Round Fiber Tube Formwork	61.10	
For Plastic Lined, Add	7.85	
For Columns >12' In Length, Add	6.11	
03 11 13 00-0081 LF 42" Diameter Round Fiber Tube Formwork	93.75	
For Plastic Lined, Add	17.20	
For Columns >12' In Length, Add	9.38	
03 11 13 00-0082 LF 48" Diameter Round Fiber Tube Formwork	113.35	
For Plastic Lined, Add	22.64	
For Columns >12' In Length, Add	11.34	
03 11 13 00-0083 LF 54" Diameter Round Fiber Tube Formwork	200.69	
For Plastic Lined, Add	48.12	
For Columns >12' In Length, Add	20.07	
03 11 13 00-0084 LF 60" Diameter Round Fiber Tube Formwork	223.14	
For Plastic Lined, Add	54.31	
For Columns >12' In Length, Add	22.31	
03 11 13 00-0085 Accessories For Formwork (03 11 13)		
03 11 13 00-0086 Keyway Forms, All Materials (03 11 13 00-0085)		
03 11 13 00-0087 LF 2" x 4" To 2" x 6" Keyway Forms for Concrete Formwork, All Materials	2.55	
03 11 13 00-0088 Chamfer Strips, All Materials (03 11 13 00-0085)		
03 11 13 00-0089 LF 1/2" Wide Chamfer Strips for Concrete Formwork, All Materials	2.70	
03 11 13 00-0090 LF 3/4" Wide Chamfer Strips for Concrete Formwork, All Materials	3.13	
03 11 13 00-0091 LF 1" Wide Chamfer Strips for Concrete Formwork, All Materials	3.61	
03 11 13 00-0092 Strip Out Reglets For Concrete Formwork (03 11 13 00-0085)		
03 11 13 00-0093 LF 24 To 26 Gauge Galvanized Steel, Strip Out Reglets For Concrete Formwork	13.30	
03 11 13 00-0094 Sleeves And Chases, Plastic Or Sheet Metal (03 11 13 00-0085)		
03 11 13 00-0095 EA 2" Diameter Sleeves Or Chases for Concrete Formwork, Plastic or Sheet Metal	18.05	
03 11 13 00-0096 EA 4" Diameter Sleeves Or Chases for Concrete Formwork, Plastic or Sheet Metal	23.17	
03 11 13 00-0097 EA 6" Diameter Sleeves Or Chases for Concrete Formwork, Plastic or Sheet Metal	28.17	
03 11 13 00-0098 EA 8" Diameter Sleeves Or Chases for Concrete Formwork, Plastic or Sheet Metal	34.46	
03 11 13 00-0099 EA 12" Diameter Sleeves Or Chases for Concrete Formwork, Plastic or Sheet Metal	45.10	
03 11 13 00-0100 EA 18" Diameter Sleeves Or Chases for Concrete Formwork, Plastic or Sheet Metal	118.65	
03 11 16 Architectural Cast-In-Place Concrete Forming (03 11)		
03 11 16 13 Concrete Form Liners (03 11 16)		
03 11 16 13-0001 Concrete Form Liners (03 11 16 13)		
03 11 16 13-0002 SF Various Patterns And Textures, 1 Use, Concrete Form Liner, Add To Formwork	6.60	



Concrete	03	03
Concrete Forming and Accessories	03 10	
Concrete Forming	03 11	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 11 16	13-0003	SF	Beveled Edge, Rusticated Concrete Finish, 1 Use, Concrete Form Liner, Add To Formwork	8.34	
03 11 16	13-0004	SF	Square Edge, Rusticated Concrete Finish, 1 Use, Concrete Form Liner, Add To Formwork	10.92	
03 11 23 Permanent Stair Forming (03 11)					
03 11 23 00-0001 Stairway Wood Formwork (03 11 23)					
03 11 23	00-0002	SF	Cast On Grade Stairway Wood Formwork	20.64	
			<i>For Curved Formwork, Add</i>	7.92	
			<i>For <1,000, Add</i>	4.02	
03 11 23	00-0003	SF	Elevated Stairway Wood Formwork	40.79	
			Note: Includes adjustable column supports and bracing lumber up to 14' for bottom of elevated stair.		
			<i>For Curved Formwork, Add</i>	15.50	
			<i>For <1,000, Add</i>	7.89	
03 11 23 00-0004 Stairway Metal Framed Formwork (03 11 23)					
03 11 23	00-0005	SF	Cast On Grade Stairway Metal Framed Formwork	17.14	
			<i>For Curved Formwork, Add</i>	6.51	
			<i>For <1,000, Add</i>	3.31	
03 11 23	00-0006	SF	Elevated Stairway Metal Framed Formwork	31.80	
			Note: Includes adjustable column supports and bracing lumber up to 14' for bottom of elevated stair.		
			<i>For Curved Formwork, Add</i>	12.08	
			<i>For <1,000, Add</i>	6.15	
03 15 Concrete Accessories (03 15)					
03 15 13 Waterstops (03 15)					
03 15 13 13 Non-Expanding Waterstops (03 15 13)					
03 15 13 13-0001 Polyvinyl Chloride (PVC) Waterstops (03 15 13 13)					
03 15 13	13-0002	LF	3/16" Thick x 4" Wide Ribbed Polyvinyl Chloride (PVC) Waterstop	11.68	
03 15 13	13-0003	LF	3/16" Thick x 6" Wide Ribbed Polyvinyl Chloride (PVC) Waterstop	13.55	
03 15 13	13-0004	LF	3/16" Thick x 9" Wide Ribbed Polyvinyl Chloride (PVC) Waterstop With Center Bulb	17.32	
03 15 13	13-0005	LF	3/8" Thick x 9" Wide Ribbed Polyvinyl Chloride (PVC) Waterstop With Center Bulb	19.52	
03 15 13	13-0006	LF	1/2" Thick x 9" Wide Ribbed Polyvinyl Chloride (PVC) Waterstop	33.70	
03 15 13	13-0007	LF	3/16" Thick x 6" Wide Dumbbell Polyvinyl Chloride (PVC) Waterstop	15.24	
03 15 13	13-0008	LF	3/8" Thick x 6" Wide Dumbbell Polyvinyl Chloride (PVC) Waterstop	18.33	
03 15 13	13-0009	LF	3/8" Thick x 9" Wide Plain Polyvinyl Chloride (PVC) Waterstop	37.62	
03 15 13	13-0010	LF	3/8" Thick x 9" Wide Plain Polyvinyl Chloride (PVC) Waterstop With Center Bulb	27.87	
03 15 13 13-0011 Rubber Waterstops (03 15 13 13)					
03 15 13	13-0012	LF	3/8" Thick x 6" Wide Rubber Dumbbell Waterstop	10.92	
03 15 13	13-0013	LF	3/8" Thick x 9" Wide Rubber Dumbbell Waterstop	12.44	
03 15 13	13-0014	LF	1/4" Thick x 6" Wide Rubber Waterstop, With Center Bulb	11.20	
03 15 13	13-0015	LF	1/4" Thick x 9" Wide Rubber Waterstop, With Center Bulb	15.11	
03 15 13	13-0016	LF	3/8" Thick x 6" Wide Rubber Waterstop, With Center Bulb	12.79	
03 15 13	13-0017	LF	3/8" Thick x 9" Wide Rubber Waterstop, With Center Bulb	16.14	
03 15 13 16 Expanding Waterstops (03 15 13)					
03 15 13 16-0001 Bentonite Waterstops (03 15 13 16)					
03 15 13	16-0002	LF	3/4" x 3/8" Bentonite Waterstop	11.17	
03 15 13	16-0003	LF	1-1/4" x 1/2" Bentonite Waterstop	18.46	
03 15 13	16-0004	LF	1" x 3/4" Bentonite Waterstop	21.07	
03 15 13	16-0005	LF	1" x 1" Bentonite Waterstop	24.57	
03 15 16 Concrete Construction Joints (03 15)					
03 15 16 00-0001 Poured Expansion Joint (03 15 16)					
03 15 16	00-0002	LF	1/2" x 1" Plain Asphalt Expansion Joint, Poured	3.11	0.84
			<i>For Installation In Walls, Add</i>	1.41	
03 15 16	00-0003	LF	1" x 2" Plain Asphalt Expansion Joint, Poured	7.08	0.84
			<i>For Installation In Walls, Add</i>	1.58	
03 15 16	00-0004	LF	1/2" x 1" Liquid Neoprene Expansion Joint, Poured, Cold Applied	2.98	0.84
			<i>For Installation In Walls, Add</i>	1.41	
03 15 16	00-0005	LF	1" x 2" Liquid Neoprene Expansion Joint, Poured, Cold Applied	6.53	0.84
			<i>For Installation In Walls, Add</i>	1.58	
03 15 16	00-0006	LF	1/2" x 1" Polyurethane Expansion Joint, Poured, 2 Parts	4.15	0.84
			<i>For Installation In Walls, Add</i>	1.58	
03 15 16	00-0007	LF	1" x 2" Polyurethane Expansion Joint, Poured, 2 Parts	7.48	0.84
			<i>For Installation In Walls, Add</i>	2.57	
03 15 16	00-0008	LF	1/2" x 1" Rubberized Asphalt Expansion Joint, Poured, Hot Or Cold Applied	3.47	0.84
			<i>For Installation In Walls, Add</i>	1.41	
03 15 16	00-0009	LF	1/2" x 1" Rubberized Asphalt Expansion Joint, Poured, Hot Applied Fuel Resistant	4.29	0.84
			<i>For Installation In Walls, Add</i>	1.41	
03 15 16	00-0010	LF	1" x 2" Rubberized Asphalt Expansion Joint, Poured, Hot Applied Fuel Resistant	11.32	0.84
			<i>For Installation In Walls, Add</i>	1.58	

03 Concrete**03 10 Concrete Forming and Accessories****03 15 Concrete Accessories**
 MINOR
 CSI UOM DESCRIPTION

 TOTAL DIRECT DEMOLITION
 UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 16 00-0011			Premolded Expansion Joints (03 15 16)		
03 15 16 00-0012			Asphalt Saturated Fiber, Premolded Expansion Joints (03 15 16 00-0011)		
03 15 16 00-0013	LF		1/4" x 3" Asphalt Saturated Fiber, Premolded Expansion Joint	2.74	1.27
03 15 16 00-0014	LF		1/4" x 4" Asphalt Saturated Fiber, Premolded Expansion Joint	3.13	1.34
03 15 16 00-0015	LF		1/4" x 5" Asphalt Saturated Fiber, Premolded Expansion Joint	3.37	1.40
03 15 16 00-0016	LF		1/4" x 6" Asphalt Saturated Fiber, Premolded Expansion Joint	3.62	1.46
03 15 16 00-0017	LF		3/8" x 3" Asphalt Saturated Fiber, Premolded Expansion Joint	2.98	1.27
03 15 16 00-0018	LF		3/8" x 4" Asphalt Saturated Fiber, Premolded Expansion Joint	3.31	1.34
03 15 16 00-0019	LF		3/8" x 5" Asphalt Saturated Fiber, Premolded Expansion Joint	3.72	1.40
03 15 16 00-0020	LF		3/8" x 6" Asphalt Saturated Fiber, Premolded Expansion Joint	4.28	1.46
03 15 16 00-0021	LF		1/2" x 2" Asphalt Saturated Fiber, Premolded Expansion Joint	2.70	1.21
03 15 16 00-0022	LF		1/2" x 3" Asphalt Saturated Fiber, Premolded Expansion Joint	2.94	1.27
03 15 16 00-0023	LF		1/2" x 4" Asphalt Saturated Fiber, Premolded Expansion Joint	3.22	1.34
03 15 16 00-0024	LF		1/2" x 5" Asphalt Saturated Fiber, Premolded Expansion Joint	3.46	1.40
03 15 16 00-0025	LF		1/2" x 6" Asphalt Saturated Fiber, Premolded Expansion Joint	3.74	1.46
03 15 16 00-0026	LF		1/2" x 8" Asphalt Saturated Fiber, Premolded Expansion Joint	4.15	1.53
03 15 16 00-0027	LF		1/2" x 10" Asphalt Saturated Fiber, Premolded Expansion Joint	4.46	1.59
03 15 16 00-0028	LF		1/2" x 12" Asphalt Saturated Fiber, Premolded Expansion Joint	4.99	1.65
03 15 16 00-0029	LF		3/4" x 4" Asphalt Saturated Fiber, Premolded Expansion Joint	3.24	1.34
03 15 16 00-0030	LF		3/4" x 5" Asphalt Saturated Fiber, Premolded Expansion Joint	3.70	1.40
03 15 16 00-0031	LF		3/4" x 8" Asphalt Saturated Fiber, Premolded Expansion Joint	4.50	1.53
03 15 16 00-0032	SF		1" Asphalt Saturated Fiber, Premolded Expansion Joint	7.73	2.09
03 15 16 00-0033			Cork, Premolded Expansion Joints (03 15 16 00-0011)		
03 15 16 00-0034	LF		1/2" x 4" Cork, Premolded Expansion Joint	4.58	1.34
03 15 16 00-0035	LF		1/2" x 6" Cork, Premolded Expansion Joint	5.14	1.46
03 15 16 00-0036	LF		1/2" x 8" Cork, Premolded Expansion Joint	5.58	1.53
03 15 16 00-0037	LF		1/2" x 10" Cork, Premolded Expansion Joint	7.76	1.59
03 15 16 00-0038	LF		1/2" x 12" Cork, Premolded Expansion Joint	8.25	1.65
03 15 16 00-0039	SF		1/2" Cork, Premolded Expansion Joint	9.15	2.09
03 15 16 00-0040	SF		3/4" Cork, Premolded Expansion Joint	10.57	2.09
03 15 16 00-0041	SF		1" Cork, Premolded Expansion Joint	11.22	2.09
03 15 16 00-0042			Flexible Polyethylene Foam, Premolded Expansion Joints (03 15 16 00-0011)		
03 15 16 00-0043	LF		1/4" x 4" Flexible Polyethylene Foam, Premolded Expansion Joint	2.97	1.34
03 15 16 00-0044	LF		1/4" x 5" Flexible Polyethylene Foam, Premolded Expansion Joint	3.10	1.40
03 15 16 00-0045	LF		1/4" x 6" Flexible Polyethylene Foam, Premolded Expansion Joint	3.26	1.46
03 15 16 00-0046	LF		1/4" x 8" Flexible Polyethylene Foam, Premolded Expansion Joint	3.77	1.53
03 15 16 00-0047	LF		1/2" x 4" Flexible Polyethylene Foam, Premolded Expansion Joint	3.05	1.34
03 15 16 00-0048	LF		1/2" x 5" Flexible Polyethylene Foam, Premolded Expansion Joint	3.19	1.40
03 15 16 00-0049	LF		1/2" x 6" Flexible Polyethylene Foam, Premolded Expansion Joint	3.32	1.46
03 15 16 00-0050	LF		1/2" x 8" Flexible Polyethylene Foam, Premolded Expansion Joint	3.64	1.53
03 15 16 00-0051			Zip Strip, Premolded Expansion Joints (03 15 16 00-0011)		
03 15 16 00-0052	LF		1" Zip Strip, Premolded Expansion Joint.....	3.00	1.34
03 15 16 00-0053	LF		1-1/2" Zip Strip, Premolded Expansion Joint	3.27	1.40
03 15 16 00-0054	LF		2" Zip Strip, Premolded Expansion Joint.....	3.63	1.53
03 15 16 00-0055			Sponge Rubber, Premolded Expansion Joints (03 15 16 00-0011)		
03 15 16 00-0056	LF		1/2" x 4" Sponge Rubber, Premolded Expansion Joint.....	4.90	1.27
03 15 16 00-0057	LF		1/2" x 6" Sponge Rubber, Premolded Expansion Joint.....	5.87	1.27
03 15 16 00-0058			Asphalt Felt Control Joints Or Bond Breaker (03 15 16)		
03 15 16 00-0059	SF		Asphalt Felt Control Joint, 30 LB Felt Bond Breaker.....	1.44	0.96
			>1,250, Deduct	-0.07	
03 15 16 00-0060	SF		Asphalt Felt Control Joint, 15 LB Felt Bond Breaker.....	1.35	0.96
			>1,250, Deduct	-0.07	
03 15 16 00-0061			Keyed Cold Expansion And Control Joints (03 15 16)		
03 15 16 00-0062			24 Gauge Galvanized Steel With Stakes (03 15 16 00-0061)		
03 15 16 00-0063	LF		24 Gauge Galvanized Steel Keyed Joint, 3-1/2" Cold Expansion Or Control Joint	7.40	
03 15 16 00-0064	LF		24 Gauge Galvanized Steel Keyed Joint, 4-1/2" Cold Expansion Or Control Joint	7.56	
03 15 16 00-0065	LF		24 Gauge Galvanized Steel Keyed Joint, 5-1/2" Cold Expansion Or Control Joint	7.85	
03 15 16 00-0066	LF		24 Gauge Galvanized Steel Keyed Joint, 7-1/2" Cold Expansion Or Control Joint	8.37	
03 15 16 00-0067	LF		24 Gauge Galvanized Steel Keyed Joint, 9-1/2" Cold Expansion Or Control Joint	10.68	
03 15 19			Cast-In Concrete Anchors (03 15)		
03 15 19 00-0001			Cast In Place Anchors (03 15 19)		
			Note: For cast in place installations. Includes nut and washer.		



	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	03 15 19 00-0002	J-Type Anchor Bolts <small>(03 15 19 00-0001)</small> See CSI section 03 11 13 00-0002 for template.		
	03 15 19 00-0003	1/2" And 5/8" Diameter <small>(03 15 19 00-0002)</small>		
	03 15 19 00-0004	EA 1/2" Diameter x 6" Length, Plain Steel, J-Type Cast In Place Anchor Bolt 14.16 <i>For Galvanized, Add</i> 3.47 <i>For Stainless Steel, Add</i> 24.29 <i>For >10 To 50, Deduct</i> -0.36 <i>For >50 To 100, Deduct</i> -0.90 <i>For >100, Deduct</i> -1.79		
	03 15 19 00-0005	EA 1/2" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt 16.62 <i>For Galvanized, Add</i> 4.42 <i>For Stainless Steel, Add</i> 30.94 <i>For >10 To 50, Deduct</i> -0.39 <i>For >50 To 100, Deduct</i> -1.00 <i>For >100, Deduct</i> -2.00		
	03 15 19 00-0006	EA 1/2" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt 20.60 <i>For Galvanized, Add</i> 6.09 <i>For Stainless Steel, Add</i> 42.63 <i>For >10 To 50, Deduct</i> -0.42 <i>For >50 To 100, Deduct</i> -1.15 <i>For >100, Deduct</i> -2.29		
	03 15 19 00-0007	EA 5/8" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt 24.33 <i>For Galvanized, Add</i> 7.96 <i>For Stainless Steel, Add</i> 55.69 <i>For >10 To 50, Deduct</i> -0.42 <i>For >50 To 100, Deduct</i> -1.24 <i>For >100, Deduct</i> -2.48		
	03 15 19 00-0008	EA 5/8" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt 30.43 <i>For Galvanized, Add</i> 10.62 <i>For Stainless Steel, Add</i> 74.34 <i>For >10 To 50, Deduct</i> -0.46 <i>For >50 To 100, Deduct</i> -1.45 <i>For >100, Deduct</i> -2.90		
	03 15 19 00-0009	EA 5/8" Diameter x 24" Length, Plain Steel, J-Type Cast In Place Anchor Bolt 34.37 <i>For Galvanized, Add</i> 12.14 <i>For Stainless Steel, Add</i> 84.95 <i>For >10 To 50, Deduct</i> -0.51 <i>For >50 To 100, Deduct</i> -1.62 <i>For >100, Deduct</i> -3.23		
	03 15 19 00-0010	3/4" And 7/8" Diameter <small>(03 15 19 00-0002)</small>		
	03 15 19 00-0011	EA 3/4" Diameter x 8" Length, Plain Steel, J-Type Cast In Place Anchor Bolt 34.20 <i>For Galvanized, Add</i> 12.05 <i>For Stainless Steel, Add</i> 84.35 <i>For >10 To 50, Deduct</i> -0.51 <i>For >50 To 100, Deduct</i> -1.61 <i>For >100, Deduct</i> -3.23		
	03 15 19 00-0012	EA 3/4" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt 39.32 <i>For Galvanized, Add</i> 14.05 <i>For Stainless Steel, Add</i> 98.32 <i>For >10 To 50, Deduct</i> -0.56 <i>For >50 To 100, Deduct</i> -1.83 <i>For >100, Deduct</i> -3.65		
	03 15 19 00-0013	EA 3/4" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt 48.62 <i>For Galvanized, Add</i> 17.99 <i>For Stainless Steel, Add</i> 125.93 <i>For >10 To 50, Deduct</i> -0.63 <i>For >50 To 100, Deduct</i> -2.16 <i>For >100, Deduct</i> -4.33		
	03 15 19 00-0014	EA 3/4" Diameter x 24" Length, Plain Steel, J-Type Cast In Place Anchor Bolt 59.50 <i>For Galvanized, Add</i> 22.67 <i>For Stainless Steel, Add</i> 158.69 <i>For >10 To 50, Deduct</i> -0.71 <i>For >50 To 100, Deduct</i> -2.55 <i>For >100, Deduct</i> -5.10		
	03 15 19 00-0015	EA 7/8" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt 45.58 <i>For Galvanized, Add</i> 16.47 <i>For Stainless Steel, Add</i> 115.29 <i>For >10 To 50, Deduct</i> -0.63 <i>For >50 To 100, Deduct</i> -2.09 <i>For >100, Deduct</i> -4.18		
	03 15 19 00-0016	EA 7/8" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt 53.88 <i>For Galvanized, Add</i> 19.72 <i>For Stainless Steel, Add</i> 138.04 <i>For >10 To 50, Deduct</i> -0.72 <i>For >50 To 100, Deduct</i> -2.43 <i>For >100, Deduct</i> -4.86		
	03 15 19 00-0017	EA 7/8" Diameter x 24" Length, Plain Steel, J-Type Cast In Place Anchor Bolt 69.42 <i>For Galvanized, Add</i> 26.29 <i>For Stainless Steel, Add</i> 184.03 <i>For >10 To 50, Deduct</i> -0.84 <i>For >50 To 100, Deduct</i> -3.00 <i>For >100, Deduct</i> -6.00		

03 Concrete**03 10 Concrete Forming and Accessories****03 15 Concrete Accessories**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 19 00-0018			1" And 1-1/8" Diameter <small>(03 15 19 00-0002)</small>		
03 15 19 00-0019	EA		1" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	57.05	
			<i>For Galvanized, Add</i>	21.31	
			<i>For Stainless Steel, Add</i>	149.14	
			<i>For >10 To 50, Deduct</i>	-0.72	
			<i>For >50 To 100, Deduct</i>	-2.51	
			<i>For >100, Deduct</i>	-5.02	
03 15 19 00-0020	EA		1" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	68.12	
			<i>For Galvanized, Add</i>	25.64	
			<i>For Stainless Steel, Add</i>	179.48	
			<i>For >10 To 50, Deduct</i>	-0.84	
			<i>For >50 To 100, Deduct</i>	-2.97	
			<i>For >100, Deduct</i>	-5.93	
03 15 19 00-0021	EA		1" Diameter x 24" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	84.49	
			<i>For Galvanized, Add</i>	32.14	
			<i>For Stainless Steel, Add</i>	224.98	
			<i>For >10 To 50, Deduct</i>	-1.01	
			<i>For >50 To 100, Deduct</i>	-3.63	
			<i>For >100, Deduct</i>	-7.26	
03 15 19 00-0022	EA		1" Diameter x 36" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	103.80	
			<i>For Galvanized, Add</i>	39.27	
			<i>For Stainless Steel, Add</i>	274.89	
			<i>For >10 To 50, Deduct</i>	-1.26	
			<i>For >50 To 100, Deduct</i>	-4.49	
			<i>For >100, Deduct</i>	-8.98	
03 15 19 00-0023	EA		1-1/8" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	69.12	
			<i>For Galvanized, Add</i>	26.64	
			<i>For Stainless Steel, Add</i>	186.45	
			<i>For >10 To 50, Deduct</i>	-0.79	
			<i>For >50 To 100, Deduct</i>	-2.92	
			<i>For >100, Deduct</i>	-5.83	
03 15 19 00-0024	EA		1-1/8" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	82.59	
			<i>For Galvanized, Add</i>	32.06	
			<i>For Stainless Steel, Add</i>	224.39	
			<i>For >10 To 50, Deduct</i>	-0.92	
			<i>For >50 To 100, Deduct</i>	-3.45	
			<i>For >100, Deduct</i>	-6.90	
03 15 19 00-0025	EA		1-1/8" Diameter x 24" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	102.55	
			<i>For Galvanized, Add</i>	40.18	
			<i>For Stainless Steel, Add</i>	281.26	
			<i>For >10 To 50, Deduct</i>	-1.11	
			<i>For >50 To 100, Deduct</i>	-4.23	
			<i>For >100, Deduct</i>	-8.46	
03 15 19 00-0026	EA		1-1/8" Diameter x 36" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	125.92	
			<i>For Galvanized, Add</i>	49.09	
			<i>For Stainless Steel, Add</i>	343.63	
			<i>For >10 To 50, Deduct</i>	-1.39	
			<i>For >50 To 100, Deduct</i>	-5.23	
			<i>For >100, Deduct</i>	-10.46	
03 15 19 00-0027			1-1/4" And 1-1/2" Diameter <small>(03 15 19 00-0002)</small>		
03 15 19 00-0028	EA		1-1/4" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	84.14	
			<i>For Galvanized, Add</i>	33.29	
			<i>For Stainless Steel, Add</i>	233.03	
			<i>For >10 To 50, Deduct</i>	-0.88	
			<i>For >50 To 100, Deduct</i>	-3.42	
			<i>For >100, Deduct</i>	-6.84	
03 15 19 00-0029	EA		1-1/4" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	100.62	
			<i>For Galvanized, Add</i>	40.08	
			<i>For Stainless Steel, Add</i>	280.53	
			<i>For >10 To 50, Deduct</i>	-1.02	
			<i>For >50 To 100, Deduct</i>	-4.05	
			<i>For >100, Deduct</i>	-8.10	
03 15 19 00-0030	EA		1-1/4" Diameter x 24" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	125.06	
			<i>For Galvanized, Add</i>	50.24	
			<i>For Stainless Steel, Add</i>	351.68	
			<i>For >10 To 50, Deduct</i>	-1.23	
			<i>For >50 To 100, Deduct</i>	-4.97	
			<i>For >100, Deduct</i>	-9.94	
03 15 19 00-0031	EA		1-1/4" Diameter x 36" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	153.43	
			<i>For Galvanized, Add</i>	61.36	
			<i>For Stainless Steel, Add</i>	429.49	
			<i>For >10 To 50, Deduct</i>	-1.54	
			<i>For >50 To 100, Deduct</i>	-6.14	
			<i>For >100, Deduct</i>	-12.28	
03 15 19 00-0032	EA		1-1/2" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	102.91	
			<i>For Galvanized, Add</i>	41.61	
			<i>For Stainless Steel, Add</i>	291.27	
			<i>For >10 To 50, Deduct</i>	-0.98	
			<i>For >50 To 100, Deduct</i>	-4.05	
			<i>For >100, Deduct</i>	-8.10	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	03 15 19 00-0033	EA		1-1/2" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt 123.14		
				<i>For Galvanized, Add</i>	50.09	
				<i>For Stainless Steel, Add</i>	350.60	
				<i>For >10 To 50, Deduct</i>	-1.15	
				<i>For >50 To 100, Deduct</i>	-4.80	
				<i>For >100, Deduct</i>	-9.60	
	03 15 19 00-0034	EA		1-1/2" Diameter x 24" Length, Plain Steel, J-Type Cast In Place Anchor Bolt 153.19		
				<i>For Galvanized, Add</i>	62.81	
				<i>For Stainless Steel, Add</i>	439.67	
				<i>For >10 To 50, Deduct</i>	-1.38	
				<i>For >50 To 100, Deduct</i>	-5.90	
				<i>For >100, Deduct</i>	-11.80	
	03 15 19 00-0035	EA		1-1/2" Diameter x 36" Length, Plain Steel, J-Type Cast In Place Anchor Bolt 187.85		
				<i>For Galvanized, Add</i>	76.70	
				<i>For Stainless Steel, Add</i>	536.90	
				<i>For >10 To 50, Deduct</i>	-1.72	
				<i>For >50 To 100, Deduct</i>	-7.28	
				<i>For >100, Deduct</i>	-14.56	
	03 15 19 00-0036			L-Type Anchor Bolts <small>(03 15 19 00-0001)</small>		
				See CSI section 03 11 13 00-0002 for template.		
	03 15 19 00-0037			3/4" And 7/8" Diameter <small>(03 15 19 00-0036)</small>		
	03 15 19 00-0038	EA		3/4" Diameter x 12" Length, Plain Steel, L-Type Cast In Place Anchor Bolt 29.65		
				<i>For Galvanized, Add</i>	9.21	
				<i>For Stainless Steel, Add</i>	64.47	
				<i>For >10 To 50, Deduct</i>	-0.56	
				<i>For >50 To 100, Deduct</i>	-1.58	
				<i>For >100, Deduct</i>	-3.17	
	03 15 19 00-0039	EA		3/4" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt 35.40		
				<i>For Galvanized, Add</i>	11.38	
				<i>For Stainless Steel, Add</i>	79.66	
				<i>For >10 To 50, Deduct</i>	-0.63	
				<i>For >50 To 100, Deduct</i>	-1.83	
				<i>For >100, Deduct</i>	-3.67	
	03 15 19 00-0040	EA		3/4" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt 40.53		
				<i>For Galvanized, Add</i>	13.05	
				<i>For Stainless Steel, Add</i>	91.32	
				<i>For >10 To 50, Deduct</i>	-0.72	
				<i>For >50 To 100, Deduct</i>	-2.10	
				<i>For >100, Deduct</i>	-4.19	
	03 15 19 00-0041	EA		3/4" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt 43.93		
				<i>For Galvanized, Add</i>	13.55	
				<i>For Stainless Steel, Add</i>	94.82	
				<i>For >10 To 50, Deduct</i>	-0.84	
				<i>For >50 To 100, Deduct</i>	-2.36	
				<i>For >100, Deduct</i>	-4.72	
	03 15 19 00-0042	EA		3/4" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt 48.65		
				<i>For Galvanized, Add</i>	14.22	
				<i>For Stainless Steel, Add</i>	99.54	
				<i>For >10 To 50, Deduct</i>	-1.01	
				<i>For >50 To 100, Deduct</i>	-2.73	
				<i>For >100, Deduct</i>	-5.46	
	03 15 19 00-0043	EA		7/8" Diameter x 12" Length, Plain Steel, L-Type Cast In Place Anchor Bolt 35.48		
				<i>For Galvanized, Add</i>	11.42	
				<i>For Stainless Steel, Add</i>	79.94	
				<i>For >10 To 50, Deduct</i>	-0.63	
				<i>For >50 To 100, Deduct</i>	-1.84	
				<i>For >100, Deduct</i>	-3.67	
	03 15 19 00-0044	EA		7/8" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt 41.05		
				<i>For Galvanized, Add</i>	13.31	
				<i>For Stainless Steel, Add</i>	93.14	
				<i>For >10 To 50, Deduct</i>	-0.72	
				<i>For >50 To 100, Deduct</i>	-2.11	
				<i>For >100, Deduct</i>	-4.22	
	03 15 19 00-0045	EA		7/8" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt 47.36		
				<i>For Galvanized, Add</i>	15.26	
				<i>For Stainless Steel, Add</i>	106.82	
				<i>For >10 To 50, Deduct</i>	-0.84	
				<i>For >50 To 100, Deduct</i>	-2.45	
				<i>For >100, Deduct</i>	-4.89	
	03 15 19 00-0046	EA		7/8" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt 51.90		
				<i>For Galvanized, Add</i>	15.85	
				<i>For Stainless Steel, Add</i>	110.92	
				<i>For >10 To 50, Deduct</i>	-1.01	
				<i>For >50 To 100, Deduct</i>	-2.81	
				<i>For >100, Deduct</i>	-5.63	
	03 15 19 00-0047	EA		7/8" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt 58.55		
				<i>For Galvanized, Add</i>	16.65	
				<i>For Stainless Steel, Add</i>	116.52	
				<i>For >10 To 50, Deduct</i>	-1.26	
				<i>For >50 To 100, Deduct</i>	-3.36	
				<i>For >100, Deduct</i>	-6.72	

03 Concrete**03 10 Concrete Forming and Accessories****03 15 Concrete Accessories**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 19 00-0048			1" And 1-1/8" Diameter <small>(03 15 19 00-0036)</small>		
03 15 19 00-0049	EA		1" Diameter x 12" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	43.74	
			<i>For Galvanized, Add</i>	14.65	
			<i>For Stainless Steel, Add</i>	102.55	
			<i>For >10 To 50, Deduct</i>	-0.72	
			<i>For >50 To 100, Deduct</i>	-2.18	
			<i>For >100, Deduct</i>	-4.35	
03 15 19 00-0050	EA		1" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	49.78	
			<i>For Galvanized, Add</i>	16.47	
			<i>For Stainless Steel, Add</i>	115.29	
			<i>For >10 To 50, Deduct</i>	-0.84	
			<i>For >50 To 100, Deduct</i>	-2.51	
			<i>For >100, Deduct</i>	-5.02	
03 15 19 00-0051	EA		1" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	57.05	
			<i>For Galvanized, Add</i>	18.42	
			<i>For Stainless Steel, Add</i>	128.94	
			<i>For >10 To 50, Deduct</i>	-1.01	
			<i>For >50 To 100, Deduct</i>	-2.94	
			<i>For >100, Deduct</i>	-5.88	
03 15 19 00-0052	EA		1" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	60.55	
			<i>For Galvanized, Add</i>	19.29	
			<i>For Stainless Steel, Add</i>	135.03	
			<i>For >10 To 50, Deduct</i>	-1.10	
			<i>For >50 To 100, Deduct</i>	-3.16	
			<i>For >100, Deduct</i>	-6.32	
03 15 19 00-0053	EA		1" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	65.66	
			<i>For Galvanized, Add</i>	20.20	
			<i>For Stainless Steel, Add</i>	141.40	
			<i>For >10 To 50, Deduct</i>	-1.26	
			<i>For >50 To 100, Deduct</i>	-3.54	
			<i>For >100, Deduct</i>	-7.07	
03 15 19 00-0054	EA		1" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	74.88	
			<i>For Galvanized, Add</i>	23.41	
			<i>For Stainless Steel, Add</i>	163.84	
			<i>For >10 To 50, Deduct</i>	-1.40	
			<i>For >50 To 100, Deduct</i>	-3.98	
			<i>For >100, Deduct</i>	-7.95	
03 15 19 00-0055	EA		1" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	88.47	
			<i>For Galvanized, Add</i>	27.40	
			<i>For Stainless Steel, Add</i>	191.77	
			<i>For >10 To 50, Deduct</i>	-1.68	
			<i>For >50 To 100, Deduct</i>	-4.74	
			<i>For >100, Deduct</i>	-9.48	
03 15 19 00-0056	EA		1-1/8" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	55.37	
			<i>For Galvanized, Add</i>	19.27	
			<i>For Stainless Steel, Add</i>	134.86	
			<i>For >10 To 50, Deduct</i>	-0.84	
			<i>For >50 To 100, Deduct</i>	-2.65	
			<i>For >100, Deduct</i>	-5.29	
03 15 19 00-0057	EA		1-1/8" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	63.34	
			<i>For Galvanized, Add</i>	21.57	
			<i>For Stainless Steel, Add</i>	150.96	
			<i>For >10 To 50, Deduct</i>	-1.01	
			<i>For >50 To 100, Deduct</i>	-3.10	
			<i>For >100, Deduct</i>	-6.20	
03 15 19 00-0058	EA		1-1/8" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	67.09	
			<i>For Galvanized, Add</i>	22.56	
			<i>For Stainless Steel, Add</i>	157.92	
			<i>For >10 To 50, Deduct</i>	-1.10	
			<i>For >50 To 100, Deduct</i>	-3.33	
			<i>For >100, Deduct</i>	-6.65	
03 15 19 00-0059			1-1/4" And 1-3/8" Diameter <small>(03 15 19 00-0036)</small>		
03 15 19 00-0060	EA		1-1/4" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	66.81	
			<i>For Galvanized, Add</i>	23.30	
			<i>For Stainless Steel, Add</i>	163.10	
			<i>For >10 To 50, Deduct</i>	-1.01	
			<i>For >50 To 100, Deduct</i>	-3.19	
			<i>For >100, Deduct</i>	-6.37	
03 15 19 00-0061	EA		1-1/4" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	79.79	
			<i>For Galvanized, Add</i>	27.27	
			<i>For Stainless Steel, Add</i>	190.86	
			<i>For >10 To 50, Deduct</i>	-1.26	
			<i>For >50 To 100, Deduct</i>	-3.89	
			<i>For >100, Deduct</i>	-7.78	
03 15 19 00-0062	EA		1-1/4" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	88.36	
			<i>For Galvanized, Add</i>	30.89	
			<i>For Stainless Steel, Add</i>	216.20	
			<i>For >10 To 50, Deduct</i>	-1.33	
			<i>For >50 To 100, Deduct</i>	-4.20	
			<i>For >100, Deduct</i>	-8.41	



Concrete	03	CS
Concrete Forming and Accessories	03 10	
Concrete Accessories	03 15	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 19 00-0063 EA 1-1/4" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	97.81	
For Galvanized, Add	34.87	
For Stainless Steel, Add	244.09	
For >10 To 50, Deduct	-1.40	
For >50 To 100, Deduct	-4.55	
For >100, Deduct	-9.10	
03 15 19 00-0064 EA 1-1/4" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	107.44	
For Galvanized, Add	37.93	
For Stainless Steel, Add	265.51	
For >10 To 50, Deduct	-1.58	
For >50 To 100, Deduct	-5.05	
For >100, Deduct	-10.11	
03 15 19 00-0065 EA 1-1/4" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	117.33	
For Galvanized, Add	40.62	
For Stainless Steel, Add	284.31	
For >10 To 50, Deduct	-1.81	
For >50 To 100, Deduct	-5.64	
For >100, Deduct	-11.28	
03 15 19 00-0066 EA 1-1/4" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	129.06	
For Galvanized, Add	43.48	
For Stainless Steel, Add	304.33	
For >10 To 50, Deduct	-2.11	
For >50 To 100, Deduct	-6.38	
For >100, Deduct	-12.77	
03 15 19 00-0067 EA 1-1/4" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	146.68	
For Galvanized, Add	48.07	
For Stainless Steel, Add	336.49	
For >10 To 50, Deduct	-2.53	
For >50 To 100, Deduct	-7.46	
For >100, Deduct	-14.92	
03 15 19 00-0068 EA 1-3/8" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	78.47	
For Galvanized, Add	29.13	
For Stainless Steel, Add	203.91	
For >10 To 50, Deduct	-1.01	
For >50 To 100, Deduct	-3.48	
For >100, Deduct	-6.96	
03 15 19 00-0069 EA 1-3/8" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	93.44	
For Galvanized, Add	34.09	
For Stainless Steel, Add	238.63	
For >10 To 50, Deduct	-1.26	
For >50 To 100, Deduct	-4.23	
For >100, Deduct	-8.46	
03 15 19 00-0070 EA 1-3/8" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	103.79	
For Galvanized, Add	38.60	
For Stainless Steel, Add	270.20	
For >10 To 50, Deduct	-1.33	
For >50 To 100, Deduct	-4.59	
For >100, Deduct	-9.18	
03 15 19 00-0071 EA 1-3/8" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	115.24	
For Galvanized, Add	43.59	
For Stainless Steel, Add	305.10	
For >10 To 50, Deduct	-1.40	
For >50 To 100, Deduct	-4.99	
For >100, Deduct	-9.97	
03 15 19 00-0072 EA 1-3/8" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	126.42	
For Galvanized, Add	47.42	
For Stainless Steel, Add	331.94	
For >10 To 50, Deduct	-1.58	
For >50 To 100, Deduct	-5.53	
For >100, Deduct	-11.06	
03 15 19 00-0073 EA 1-3/8" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	137.66	
For Galvanized, Add	50.78	
For Stainless Steel, Add	355.46	
For >10 To 50, Deduct	-1.81	
For >50 To 100, Deduct	-6.15	
For >100, Deduct	-12.30	
03 15 19 00-0074 EA 1-3/8" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	151.69	
For Galvanized, Add	54.79	
For Stainless Steel, Add	383.53	
For >10 To 50, Deduct	-2.11	
For >50 To 100, Deduct	-6.95	
For >100, Deduct	-13.90	
03 15 19 00-0075 EA 1-3/8" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	170.74	
For Galvanized, Add	60.10	
For Stainless Steel, Add	420.70	
For >10 To 50, Deduct	-2.53	
For >50 To 100, Deduct	-8.06	
For >100, Deduct	-16.12	

03 15 19 00-0076 1-1/2", 1-3/4", And 2" Diameter (03 15 19 00-0036)

03 Concrete**03 10 Concrete Forming and Accessories****03 15 Concrete Accessories**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 19 00-0077 EA 1-1/2" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	103.72	
For Galvanized, Add	40.38	
For Stainless Steel, Add	282.63	
For >10 To 50, Deduct	-1.15	
For >50 To 100, Deduct	-4.32	
For >100, Deduct	-8.63	
03 15 19 00-0078 EA 1-1/2" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	111.29	
For Galvanized, Add	42.35	
For Stainless Steel, Add	296.45	
For >10 To 50, Deduct	-1.33	
For >50 To 100, Deduct	-4.78	
For >100, Deduct	-9.55	
03 15 19 00-0079 EA 1-1/2" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	122.91	
For Galvanized, Add	46.60	
For Stainless Steel, Add	326.17	
For >10 To 50, Deduct	-1.49	
For >50 To 100, Deduct	-5.30	
For >100, Deduct	-10.60	
03 15 19 00-0080 EA 1-1/2" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	133.40	
For Galvanized, Add	50.91	
For Stainless Steel, Add	356.37	
For >10 To 50, Deduct	-1.58	
For >50 To 100, Deduct	-5.70	
For >100, Deduct	-11.41	
03 15 19 00-0081 EA 1-1/2" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	144.13	
For Galvanized, Add	55.23	
For Stainless Steel, Add	386.58	
For >10 To 50, Deduct	-1.68	
For >50 To 100, Deduct	-6.13	
For >100, Deduct	-12.26	
03 15 19 00-0082 EA 1-1/2" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	157.64	
For Galvanized, Add	59.39	
For Stainless Steel, Add	415.70	
For >10 To 50, Deduct	-1.94	
For >50 To 100, Deduct	-6.86	
For >100, Deduct	-13.71	
03 15 19 00-0083 EA 1-1/2" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	174.42	
For Galvanized, Add	64.24	
For Stainless Steel, Add	449.68	
For >10 To 50, Deduct	-2.30	
For >50 To 100, Deduct	-7.81	
For >100, Deduct	-15.61	
03 15 19 00-0084 EA 1-1/2" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	198.63	
For Galvanized, Add	71.24	
For Stainless Steel, Add	498.68	
For >10 To 50, Deduct	-2.81	
For >50 To 100, Deduct	-9.18	
For >100, Deduct	-18.35	
03 15 19 00-0085 EA 1-3/4" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	146.76	
For Galvanized, Add	60.75	
For Stainless Steel, Add	425.25	
For >10 To 50, Deduct	-1.26	
For >50 To 100, Deduct	-5.56	
For >100, Deduct	-11.13	
03 15 19 00-0086 EA 1-3/4" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	152.21	
For Galvanized, Add	62.07	
For Stainless Steel, Add	434.49	
For >10 To 50, Deduct	-1.40	
For >50 To 100, Deduct	-5.91	
For >100, Deduct	-11.82	
03 15 19 00-0087 EA 1-3/4" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	155.86	
For Galvanized, Add	63.07	
For Stainless Steel, Add	441.49	
For >10 To 50, Deduct	-1.49	
For >50 To 100, Deduct	-6.13	
For >100, Deduct	-12.25	
03 15 19 00-0088 EA 1-3/4" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	177.27	
For Galvanized, Add	72.85	
For Stainless Steel, Add	509.92	
For >10 To 50, Deduct	-1.58	
For >50 To 100, Deduct	-6.80	
For >100, Deduct	-13.60	
03 15 19 00-0089 EA 1-3/4" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	204.28	
For Galvanized, Add	84.09	
For Stainless Steel, Add	588.63	
For >10 To 50, Deduct	-1.81	
For >50 To 100, Deduct	-7.81	
For >100, Deduct	-15.63	
03 15 19 00-0090 EA 1-3/4" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	212.50	
For Galvanized, Add	85.20	
For Stainless Steel, Add	596.37	
For >10 To 50, Deduct	-2.11	
For >50 To 100, Deduct	-8.47	
For >100, Deduct	-16.94	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	03 15 19 00-0091	EA		1-3/4" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	234.54	
				<i>For Galvanized, Add</i>	92.00	
				<i>For Stainless Steel, Add</i>	644.00	
				<i>For >10 To 50, Deduct</i>	-2.53	
				<i>For >50 To 100, Deduct</i>	-9.65	
				<i>For >100, Deduct</i>	-19.31	
	03 15 19 00-0092	EA		1-3/4" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	261.34	
				<i>For Galvanized, Add</i>	99.09	
				<i>For Stainless Steel, Add</i>	693.63	
				<i>For >10 To 50, Deduct</i>	-3.16	
				<i>For >50 To 100, Deduct</i>	-11.27	
				<i>For >100, Deduct</i>	-22.54	
	03 15 19 00-0093	EA		2" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	214.68	
				<i>For Galvanized, Add</i>	92.48	
				<i>For Stainless Steel, Add</i>	647.36	
				<i>For >10 To 50, Deduct</i>	-1.49	
				<i>For >50 To 100, Deduct</i>	-7.60	
				<i>For >100, Deduct</i>	-15.19	
	03 15 19 00-0094	EA		2" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	233.64	
				<i>For Galvanized, Add</i>	99.98	
				<i>For Stainless Steel, Add</i>	699.66	
				<i>For >10 To 50, Deduct</i>	-1.68	
				<i>For >50 To 100, Deduct</i>	-8.37	
				<i>For >100, Deduct</i>	-16.73	
	03 15 19 00-0095	EA		2" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	256.81	
				<i>For Galvanized, Add</i>	108.97	
				<i>For Stainless Steel, Add</i>	762.79	
				<i>For >10 To 50, Deduct</i>	-1.94	
				<i>For >50 To 100, Deduct</i>	-9.34	
				<i>For >100, Deduct</i>	-18.67	
	03 15 19 00-0096	EA		2" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	276.76	
				<i>For Galvanized, Add</i>	115.41	
				<i>For Stainless Steel, Add</i>	807.87	
				<i>For >10 To 50, Deduct</i>	-2.30	
				<i>For >50 To 100, Deduct</i>	-10.36	
				<i>For >100, Deduct</i>	-20.73	
	03 15 19 00-0097	EA		2" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	298.57	
				<i>For Galvanized, Add</i>	124.02	
				<i>For Stainless Steel, Add</i>	868.11	
				<i>For >10 To 50, Deduct</i>	-2.53	
				<i>For >50 To 100, Deduct</i>	-11.25	
				<i>For >100, Deduct</i>	-22.51	
	03 15 19 00-0098	EA		2" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	320.99	
				<i>For Galvanized, Add</i>	132.42	
				<i>For Stainless Steel, Add</i>	926.94	
				<i>For >10 To 50, Deduct</i>	-2.81	
				<i>For >50 To 100, Deduct</i>	-12.24	
				<i>For >100, Deduct</i>	-24.47	
	03 15 19 00-0099	EA		2" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	356.63	
				<i>For Galvanized, Add</i>	142.22	
				<i>For Stainless Steel, Add</i>	995.54	
				<i>For >10 To 50, Deduct</i>	-3.61	
				<i>For >50 To 100, Deduct</i>	-14.33	
				<i>For >100, Deduct</i>	-28.66	
	03 15 19 00-0100	EA		2" Diameter x 66" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	384.89	
				<i>For Galvanized, Add</i>	156.35	
				<i>For Stainless Steel, Add</i>	1,094.45	
				<i>For >10 To 50, Deduct</i>	-3.61	
				<i>For >50 To 100, Deduct</i>	-15.04	
				<i>For >100, Deduct</i>	-30.07	
	03 15 19 00-0101	EA		2" Diameter x 72" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	431.81	
				<i>For Galvanized, Add</i>	173.80	
				<i>For Stainless Steel, Add</i>	1,216.57	
				<i>For >10 To 50, Deduct</i>	-4.21	
				<i>For >50 To 100, Deduct</i>	-17.11	
				<i>For >100, Deduct</i>	-34.22	
	03 15 19 00-0102			2-1/2" And 2-3/4" Diameter (03 15 19 00-0036)		
	03 15 19 00-0103	EA		2-1/2" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	440.64	
				<i>For Galvanized, Add</i>	205.46	
				<i>For Stainless Steel, Add</i>	1,438.22	
				<i>For >10 To 50, Deduct</i>	-1.49	
				<i>For >50 To 100, Deduct</i>	-13.25	
				<i>For >100, Deduct</i>	-26.49	
	03 15 19 00-0104	EA		2-1/2" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	463.20	
				<i>For Galvanized, Add</i>	214.76	
				<i>For Stainless Steel, Add</i>	1,503.32	
				<i>For >10 To 50, Deduct</i>	-1.68	
				<i>For >50 To 100, Deduct</i>	-14.11	
				<i>For >100, Deduct</i>	-28.21	

03 Concrete**03 10 Concrete Forming and Accessories****03 15 Concrete Accessories**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 19 00-0105	EA		2-1/2" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	504.67	
			<i>For Galvanized, Add</i>	232.90	
			<i>For Stainless Steel, Add</i>	1,630.30	
			<i>For >10 To 50, Deduct</i>	-1.94	
			<i>For >50 To 100, Deduct</i>	-15.53	
			<i>For >100, Deduct</i>	-31.06	
03 15 19 00-0106	EA		2-1/2" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	536.83	
			<i>For Galvanized, Add</i>	245.45	
			<i>For Stainless Steel, Add</i>	1,718.12	
			<i>For >10 To 50, Deduct</i>	-2.30	
			<i>For >50 To 100, Deduct</i>	-16.87	
			<i>For >100, Deduct</i>	-33.73	
03 15 19 00-0107	EA		2-1/2" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	567.74	
			<i>For Galvanized, Add</i>	258.60	
			<i>For Stainless Steel, Add</i>	1,810.20	
			<i>For >10 To 50, Deduct</i>	-2.53	
			<i>For >50 To 100, Deduct</i>	-17.98	
			<i>For >100, Deduct</i>	-35.97	
03 15 19 00-0108	EA		2-1/2" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	602.83	
			<i>For Galvanized, Add</i>	273.34	
			<i>For Stainless Steel, Add</i>	1,913.38	
			<i>For >10 To 50, Deduct</i>	-2.81	
			<i>For >50 To 100, Deduct</i>	-19.28	
			<i>For >100, Deduct</i>	-38.56	
03 15 19 00-0109	EA		2-1/2" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	649.04	
			<i>For Galvanized, Add</i>	288.43	
			<i>For Stainless Steel, Add</i>	2,018.98	
			<i>For >10 To 50, Deduct</i>	-3.61	
			<i>For >50 To 100, Deduct</i>	-21.64	
			<i>For >100, Deduct</i>	-43.28	
03 15 19 00-0110	EA		2-3/4" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	496.77	
			<i>For Galvanized, Add</i>	232.60	
			<i>For Stainless Steel, Add</i>	1,628.17	
			<i>For >10 To 50, Deduct</i>	-1.58	
			<i>For >50 To 100, Deduct</i>	-14.79	
			<i>For >100, Deduct</i>	-29.58	
03 15 19 00-0111	EA		2-3/4" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	533.71	
			<i>For Galvanized, Add</i>	248.81	
			<i>For Stainless Steel, Add</i>	1,741.64	
			<i>For >10 To 50, Deduct</i>	-1.81	
			<i>For >50 To 100, Deduct</i>	-16.05	
			<i>For >100, Deduct</i>	-32.10	
03 15 19 00-0112	EA		2-3/4" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	572.45	
			<i>For Galvanized, Add</i>	265.17	
			<i>For Stainless Steel, Add</i>	1,856.19	
			<i>For >10 To 50, Deduct</i>	-2.11	
			<i>For >50 To 100, Deduct</i>	-17.47	
			<i>For >100, Deduct</i>	-34.94	
03 15 19 00-0113	EA		2-3/4" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	610.35	
			<i>For Galvanized, Add</i>	279.91	
			<i>For Stainless Steel, Add</i>	1,959.34	
			<i>For >10 To 50, Deduct</i>	-2.53	
			<i>For >50 To 100, Deduct</i>	-19.05	
			<i>For >100, Deduct</i>	-38.10	
03 15 19 00-0114	EA		2-3/4" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	648.17	
			<i>For Galvanized, Add</i>	296.01	
			<i>For Stainless Steel, Add</i>	2,072.07	
			<i>For >10 To 50, Deduct</i>	-2.81	
			<i>For >50 To 100, Deduct</i>	-20.42	
			<i>For >100, Deduct</i>	-40.83	
03 15 19 00-0115	EA		2-3/4" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	700.91	
			<i>For Galvanized, Add</i>	318.88	
			<i>For Stainless Steel, Add</i>	2,232.13	
			<i>For >10 To 50, Deduct</i>	-3.16	
			<i>For >50 To 100, Deduct</i>	-22.26	
			<i>For >100, Deduct</i>	-44.52	
03 15 19 00-0116	EA		2-3/4" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	757.04	
			<i>For Galvanized, Add</i>	336.41	
			<i>For Stainless Steel, Add</i>	2,354.87	
			<i>For >10 To 50, Deduct</i>	-4.21	
			<i>For >50 To 100, Deduct</i>	-25.24	
			<i>For >100, Deduct</i>	-50.49	

03 20 Concrete Reinforcing ⁽⁰³⁾

Note: Includes cutting or torching to size, bending where necessary and tie wires.

03 21 Reinforcement Bars ^(03 20)

Note: Includes cutting, bending, tie wire, tying, bar chairs and all non-mechanical splicing. The weights of reinforcing steel shall be used as follows: #2 - 0.167 Lbs./LF, #3 - 0.376 Lbs./LF, #4 - 0.668 Lbs./LF, #5 - 1.043 Lbs./LF, #6 - 1.502 Lbs./LF, #7 - 2.044 Lbs./LF, #8 - 2.670 Lbs./LF, #9 - 3.400 Lbs./LF, #10 - 4.303 Lbs./LF, #11 - 5.313 Lbs./LF, #14 - 7.650 Lbs./LF, #18 - 13.600 Lbs./LF.

03 21 11 Plain Steel Reinforcement Bars ^(03 21)**03 21 11 00-0001 Beams And Girders, Steel Reinforcement Bar** ^(03 21 11)

Note: ASTM A-615 Plain Steel and A-706 Low Alloy Steel.



Concrete	03	03
Concrete Reinforcing	03 20	
Reinforcement Bars	03 21	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 11 00-0002 LF #3, Grade 40, Beams And Girders, Steel Reinforcement Bar.....	0.68	
For Up To 100, Add	0.43	
For >100 To 200, Add	0.24	
For >200 To 500, Add	0.09	
03 21 11 00-0003 LF #4, Grade 40, Beams And Girders, Steel Reinforcement Bar.....	1.14	
For Up To 100, Add	0.73	
For >100 To 200, Add	0.40	
For >200 To 500, Add	0.16	
03 21 11 00-0004 LF #5, Grade 40, Beams And Girders, Steel Reinforcement Bar.....	1.71	
For Up To 100, Add	1.12	
For >100 To 200, Add	0.61	
For >200 To 500, Add	0.24	
03 21 11 00-0005 LF #6, Grade 40, Beams And Girders, Steel Reinforcement Bar.....	2.35	
For Up To 100, Add	1.56	
For >100 To 200, Add	0.85	
For >200 To 500, Add	0.34	
03 21 11 00-0006 LF #3, Grade 50, Beams And Girders, Steel Reinforcement Bar.....	0.69	
For Up To 100, Add	0.44	
For >100 To 200, Add	0.24	
For >200 To 500, Add	0.10	
03 21 11 00-0007 LF #4, Grade 50, Beams And Girders, Steel Reinforcement Bar.....	1.16	
For Up To 100, Add	0.75	
For >100 To 200, Add	0.41	
For >200 To 500, Add	0.16	
03 21 11 00-0008 LF #5, Grade 50, Beams And Girders, Steel Reinforcement Bar.....	1.75	
For Up To 100, Add	1.16	
For >100 To 200, Add	0.63	
For >200 To 500, Add	0.25	
03 21 11 00-0009 LF #6, Grade 50, Beams And Girders, Steel Reinforcement Bar.....	2.40	
For Up To 100, Add	1.61	
For >100 To 200, Add	0.87	
For >200 To 500, Add	0.35	
03 21 11 00-0010 LF #3, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	0.71	
For Up To 100, Add	0.46	
For >100 To 200, Add	0.25	
For >200 To 500, Add	0.10	
03 21 11 00-0011 LF #4, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	1.20	
For Up To 100, Add	0.79	
For >100 To 200, Add	0.43	
For >200 To 500, Add	0.17	
03 21 11 00-0012 LF #5, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	1.80	
For Up To 100, Add	1.21	
For >100 To 200, Add	0.65	
For >200 To 500, Add	0.26	
03 21 11 00-0013 LF #6, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	2.48	
For Up To 100, Add	1.69	
For >100 To 200, Add	0.91	
For >200 To 500, Add	0.37	
03 21 11 00-0014 LF #7, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	3.20	
For Up To 100, Add	1.76	
For >100 To 200, Add	1.04	
For >200 To 400, Add	0.48	
03 21 11 00-0015 LF #8, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	3.98	
For Up To 100, Add	2.23	
For >100 To 200, Add	1.31	
For >200 To 400, Add	0.61	
03 21 11 00-0016 LF #9, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	4.87	
For Up To 100, Add	2.76	
For >100 To 200, Add	1.62	
For >200 To 400, Add	0.75	
03 21 11 00-0017 LF #10, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	5.93	
For Up To 100, Add	2.78	
For >100 To 200, Add	1.52	
For >200 To 300, Add	0.76	
03 21 11 00-0018 LF #11, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	7.02	
For Up To 100, Add	3.35	
For >100 To 200, Add	1.82	
For >200 To 300, Add	0.91	
03 21 11 00-0019 LF #14, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	9.70	
For Up To 100, Add	4.70	
For >100 To 200, Add	2.54	
For >200 To 300, Add	1.27	
03 21 11 00-0020 LF #18, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	16.51	
For Up To 100, Add	8.13	
For >100 To 200, Add	4.36	
For >200 To 300, Add	2.18	
03 21 11 00-0021 LF #6, Grade 75, Beams And Girders, Steel Reinforcement Bar.....	2.56	
For Up To 100, Add	1.77	
For >100 To 200, Add	0.95	
For >200 To 500, Add	0.38	
03 21 11 00-0022 LF #7, Grade 75, Beams And Girders, Steel Reinforcement Bar.....	3.31	
For Up To 100, Add	1.84	
For >100 To 200, Add	1.08	
For >200 To 400, Add	0.50	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 11 00-0023	LF	#8, Grade 75, Beams And Girders, Steel Reinforcement Bar	.....	4.12	
		For Up To 100, Add		2.33	
		For >100 To 200, Add		1.36	
		For >200 To 400, Add		0.63	
03 21 11 00-0024	LF	#9, Grade 75, Beams And Girders, Steel Reinforcement Bar	.....	5.04	
		For Up To 100, Add		2.89	
		For >100 To 200, Add		1.68	
		For >200 To 400, Add		0.79	
03 21 11 00-0025	LF	#10, Grade 75, Beams And Girders, Steel Reinforcement Bar	.....	6.15	
		For Up To 100, Add		2.92	
		For >100 To 200, Add		1.59	
		For >200 To 300, Add		0.79	
03 21 11 00-0026	LF	#11, Grade 75, Beams And Girders, Steel Reinforcement Bar	.....	7.30	
		For Up To 100, Add		3.51	
		For >100 To 200, Add		1.90	
		For >200 To 300, Add		0.95	
03 21 11 00-0027	LF	#14, Grade 75, Beams And Girders, Steel Reinforcement Bar	.....	10.10	
		For Up To 100, Add		4.94	
		For >100 To 200, Add		2.66	
		For >200 To 300, Add		1.33	
03 21 11 00-0028	LF	#18, Grade 75, Beams And Girders, Steel Reinforcement Bar	.....	17.21	
		For Up To 100, Add		8.55	
		For >100 To 200, Add		4.57	
		For >200 To 300, Add		2.29	
03 21 11 00-0029	LF	#3, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar	.....	0.73	
		For Up To 100, Add		0.48	
		For >100 To 200, Add		0.26	
		For >200 To 500, Add		0.10	
03 21 11 00-0030	LF	#4, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar	.....	1.23	
		For Up To 100, Add		0.82	
		For >100 To 200, Add		0.45	
		For >200 To 500, Add		0.18	
03 21 11 00-0031	LF	#5, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar	.....	1.84	
		For Up To 100, Add		1.25	
		For >100 To 200, Add		0.67	
		For >200 To 500, Add		0.27	
03 21 11 00-0032	LF	#6, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar	.....	2.54	
		For Up To 100, Add		1.75	
		For >100 To 200, Add		0.94	
		For >200 To 500, Add		0.38	
03 21 11 00-0033	LF	#7, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar	.....	3.28	
		For Up To 100, Add		1.82	
		For >100 To 200, Add		1.07	
		For >200 To 400, Add		0.50	
03 21 11 00-0034	LF	#8, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar	.....	4.08	
		For Up To 100, Add		2.30	
		For >100 To 200, Add		1.35	
		For >200 To 400, Add		0.63	
03 21 11 00-0035	LF	#9, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar	.....	5.00	
		For Up To 100, Add		2.86	
		For >100 To 200, Add		1.67	
		For >200 To 400, Add		0.78	
03 21 11 00-0036	LF	#10, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar	.....	6.09	
		For Up To 100, Add		2.88	
		For >100 To 200, Add		1.57	
		For >200 To 300, Add		0.78	
03 21 11 00-0037	LF	#11, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar	.....	7.23	
		For Up To 100, Add		3.47	
		For >100 To 200, Add		1.88	
		For >200 To 300, Add		0.94	
03 21 11 00-0038	LF	#14, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar	.....	10.00	
		For Up To 100, Add		4.88	
		For >100 To 200, Add		2.63	
		For >200 To 300, Add		1.31	
03 21 11 00-0039	LF	#18, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar	.....	17.04	
		For Up To 100, Add		8.45	
		For >100 To 200, Add		4.52	
		For >200 To 300, Add		2.26	
03 21 11 00-0040		Columns, Steel Reinforcement Bar <small>(03 21 11)</small>			
		Note: ASTM A-615 Plain Steel and A-706 Low Alloy Steel.			
03 21 11 00-0041	LF	#3, Grade 40, Columns, Steel Reinforcement Bar	.....	0.72	
		For Up To 100, Add		0.44	
		For >100 To 200, Add		0.25	
		For >200 To 500, Add		0.10	
03 21 11 00-0042	LF	#4, Grade 40, Columns, Steel Reinforcement Bar	.....	1.22	
		For Up To 100, Add		0.76	
		For >100 To 200, Add		0.42	
		For >200 To 500, Add		0.17	
03 21 11 00-0043	LF	#5, Grade 40, Columns, Steel Reinforcement Bar	.....	1.80	
		For Up To 100, Add		1.15	
		For >100 To 200, Add		0.63	
		For >200 To 500, Add		0.25	



Concrete	03	03
Concrete Reinforcing	03 20	
Reinforcement Bars	03 21	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 11 00-0044 LF #6, Grade 40, Columns, Steel Reinforcement Bar.....	2.48	
For Up To 100, Add	1.62	
For >100 To 200, Add	0.88	
For >200 To 500, Add	0.35	
03 21 11 00-0045 LF #3, Grade 50, Columns, Steel Reinforcement Bar.....	0.73	
For Up To 100, Add	0.45	
For >100 To 200, Add	0.25	
For >200 To 500, Add	0.10	
03 21 11 00-0046 LF #4, Grade 50, Columns, Steel Reinforcement Bar.....	1.24	
For Up To 100, Add	0.78	
For >100 To 200, Add	0.43	
For >200 To 500, Add	0.17	
03 21 11 00-0047 LF #5, Grade 50, Columns, Steel Reinforcement Bar.....	1.84	
For Up To 100, Add	1.19	
For >100 To 200, Add	0.65	
For >200 To 500, Add	0.26	
03 21 11 00-0048 LF #6, Grade 50, Columns, Steel Reinforcement Bar.....	2.53	
For Up To 100, Add	1.67	
For >100 To 200, Add	0.91	
For >200 To 500, Add	0.36	
03 21 11 00-0049 LF #3, Grade 60, Columns, Steel Reinforcement Bar.....	0.75	
For Up To 100, Add	0.47	
For >100 To 200, Add	0.26	
For >200 To 500, Add	0.10	
03 21 11 00-0050 LF #4, Grade 60, Columns, Steel Reinforcement Bar.....	1.28	
For Up To 100, Add	0.82	
For >100 To 200, Add	0.45	
For >200 To 500, Add	0.18	
03 21 11 00-0051 LF #5, Grade 60, Columns, Steel Reinforcement Bar.....	1.89	
For Up To 100, Add	1.24	
For >100 To 200, Add	0.68	
For >200 To 500, Add	0.27	
03 21 11 00-0052 LF #6, Grade 60, Columns, Steel Reinforcement Bar.....	2.61	
For Up To 100, Add	1.75	
For >100 To 200, Add	0.95	
For >200 To 500, Add	0.38	
03 21 11 00-0053 LF #7, Grade 60, Columns, Steel Reinforcement Bar.....	3.37	
For Up To 100, Add	1.82	
For >100 To 200, Add	1.08	
For >200 To 400, Add	0.50	
03 21 11 00-0054 LF #8, Grade 60, Columns, Steel Reinforcement Bar.....	4.16	
For Up To 100, Add	2.29	
For >100 To 200, Add	1.35	
For >200 To 400, Add	0.62	
03 21 11 00-0055 LF #9, Grade 60, Columns, Steel Reinforcement Bar.....	5.09	
For Up To 100, Add	2.84	
For >100 To 200, Add	1.67	
For >200 To 400, Add	0.77	
03 21 11 00-0056 LF #10, Grade 60, Columns, Steel Reinforcement Bar.....	6.18	
For Up To 100, Add	2.86	
For >100 To 200, Add	1.57	
For >200 To 300, Add	0.79	
03 21 11 00-0057 LF #11, Grade 60, Columns, Steel Reinforcement Bar.....	7.31	
For Up To 100, Add	3.43	
For >100 To 200, Add	1.88	
For >200 To 300, Add	0.94	
03 21 11 00-0058 LF #14, Grade 60, Columns, Steel Reinforcement Bar.....	10.08	
For Up To 100, Add	4.81	
For >100 To 200, Add	2.61	
For >200 To 300, Add	1.31	
03 21 11 00-0059 LF #18, Grade 60, Columns, Steel Reinforcement Bar.....	17.09	
For Up To 100, Add	8.30	
For >100 To 200, Add	4.48	
For >200 To 300, Add	2.24	
03 21 11 00-0060 LF #6, Grade 75, Columns, Steel Reinforcement Bar.....	2.69	
For Up To 100, Add	1.83	
For >100 To 200, Add	0.99	
For >200 To 500, Add	0.39	
03 21 11 00-0061 LF #7, Grade 75, Columns, Steel Reinforcement Bar.....	3.48	
For Up To 100, Add	1.90	
For >100 To 200, Add	1.13	
For >200 To 400, Add	0.52	
03 21 11 00-0062 LF #8, Grade 75, Columns, Steel Reinforcement Bar.....	4.30	
For Up To 100, Add	2.39	
For >100 To 200, Add	1.41	
For >200 To 400, Add	0.65	
03 21 11 00-0063 LF #9, Grade 75, Columns, Steel Reinforcement Bar.....	5.26	
For Up To 100, Add	2.97	
For >100 To 200, Add	1.74	
For >200 To 400, Add	0.81	
03 21 11 00-0064 LF #10, Grade 75, Columns, Steel Reinforcement Bar.....	6.40	
For Up To 100, Add	2.99	
For >100 To 200, Add	1.64	
For >200 To 300, Add	0.82	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 11 00-0065	LF		#11, Grade 75, Columns, Steel Reinforcement Bar	7.59	
			For Up To 100, Add	3.60	
			For >100 To 200, Add	1.96	
			For >200 To 300, Add	0.98	
03 21 11 00-0066	LF		#14, Grade 75, Columns, Steel Reinforcement Bar	10.48	
			For Up To 100, Add	5.05	
			For >100 To 200, Add	2.73	
			For >200 To 300, Add	1.37	
03 21 11 00-0067	LF		#18, Grade 75, Columns, Steel Reinforcement Bar	17.79	
			For Up To 100, Add	8.72	
			For >100 To 200, Add	4.69	
			For >200 To 300, Add	2.34	
03 21 11 00-0068	LF		#3, Grade 60, Columns, Low Alloy Steel Reinforcement Bar	0.77	
			For Up To 100, Add	0.49	
			For >100 To 200, Add	0.27	
			For >200 To 500, Add	0.11	
03 21 11 00-0069	LF		#4, Grade 60, Columns, Low Alloy Steel Reinforcement Bar	1.31	
			For Up To 100, Add	0.85	
			For >100 To 200, Add	0.47	
			For >200 To 500, Add	0.19	
03 21 11 00-0070	LF		#5, Grade 60, Columns, Low Alloy Steel Reinforcement Bar	1.93	
			For Up To 100, Add	1.28	
			For >100 To 200, Add	0.70	
			For >200 To 500, Add	0.28	
03 21 11 00-0071	LF		#6, Grade 60, Columns, Low Alloy Steel Reinforcement Bar	2.67	
			For Up To 100, Add	1.81	
			For >100 To 200, Add	0.98	
			For >200 To 500, Add	0.39	
03 21 11 00-0072	LF		#7, Grade 60, Columns, Low Alloy Steel Reinforcement Bar	3.45	
			For Up To 100, Add	1.88	
			For >100 To 200, Add	1.11	
			For >200 To 400, Add	0.51	
03 21 11 00-0073	LF		#8, Grade 60, Columns, Low Alloy Steel Reinforcement Bar	4.26	
			For Up To 100, Add	2.36	
			For >100 To 200, Add	1.39	
			For >200 To 400, Add	0.64	
03 21 11 00-0074	LF		#9, Grade 60, Columns, Low Alloy Steel Reinforcement Bar	5.22	
			For Up To 100, Add	2.94	
			For >100 To 200, Add	1.72	
			For >200 To 400, Add	0.80	
03 21 11 00-0075	LF		#10, Grade 60, Columns, Low Alloy Steel Reinforcement Bar	6.34	
			For Up To 100, Add	2.96	
			For >100 To 200, Add	1.62	
			For >200 To 300, Add	0.81	
03 21 11 00-0076	LF		#11, Grade 60, Columns, Low Alloy Steel Reinforcement Bar	7.52	
			For Up To 100, Add	3.56	
			For >100 To 200, Add	1.94	
			For >200 To 300, Add	0.97	
03 21 11 00-0077	LF		#14, Grade 60, Columns, Low Alloy Steel Reinforcement Bar	10.38	
			For Up To 100, Add	4.99	
			For >100 To 200, Add	2.70	
			For >200 To 300, Add	1.35	
03 21 11 00-0078	LF		#18, Grade 60, Columns, Low Alloy Steel Reinforcement Bar	17.62	
			For Up To 100, Add	8.62	
			For >100 To 200, Add	4.64	
			For >200 To 300, Add	2.32	
03 21 11 00-0079			Footings, Steel Reinforcement Bar <small>(03 21 11)</small>		
			Note: ASTM A-615 Plain Steel and A-706 Low Alloy Steel.		
03 21 11 00-0080	LF		#3, Grade 40, Footings, Steel Reinforcement Bar	0.62	
			For Up To 100, Add	0.40	
			For >100 To 200, Add	0.22	
			For >200 To 500, Add	0.09	
03 21 11 00-0081	LF		#4, Grade 40, Footings, Steel Reinforcement Bar	1.05	
			For Up To 100, Add	0.70	
			For >100 To 200, Add	0.38	
			For >200 To 500, Add	0.15	
03 21 11 00-0082	LF		#5, Grade 40, Footings, Steel Reinforcement Bar	1.57	
			For Up To 100, Add	1.06	
			For >100 To 200, Add	0.57	
			For >200 To 500, Add	0.23	
03 21 11 00-0083	LF		#6, Grade 40, Footings, Steel Reinforcement Bar	2.16	
			For Up To 100, Add	1.49	
			For >100 To 200, Add	0.80	
			For >200 To 500, Add	0.32	
03 21 11 00-0084	LF		#3, Grade 50, Footings, Steel Reinforcement Bar	0.63	
			For Up To 100, Add	0.41	
			For >100 To 200, Add	0.23	
			For >200 To 500, Add	0.09	
03 21 11 00-0085	LF		#4, Grade 50, Footings, Steel Reinforcement Bar	1.07	
			For Up To 100, Add	0.72	
			For >100 To 200, Add	0.39	
			For >200 To 500, Add	0.16	



Concrete	03	03
Concrete Reinforcing	03 20	
Reinforcement Bars	03 21	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 11 00-0086 LF #5, Grade 50, Footings, Steel Reinforcement Bar	1.61	
For Up To 100, Add	1.10	
For >100 To 200, Add	0.59	
For >200 To 500, Add	0.24	
03 21 11 00-0087 LF #6, Grade 50, Footings, Steel Reinforcement Bar	2.21	
For Up To 100, Add	1.54	
For >100 To 200, Add	0.83	
For >200 To 500, Add	0.33	
03 21 11 00-0088 LF #3, Grade 60, Footings, Steel Reinforcement Bar	0.65	
For Up To 100, Add	0.43	
For >100 To 200, Add	0.24	
For >200 To 500, Add	0.09	
03 21 11 00-0089 LF #4, Grade 60, Footings, Steel Reinforcement Bar	1.11	
For Up To 100, Add	0.76	
For >100 To 200, Add	0.41	
For >200 To 500, Add	0.16	
03 21 11 00-0090 LF #5, Grade 60, Footings, Steel Reinforcement Bar	1.66	
For Up To 100, Add	1.15	
For >100 To 200, Add	0.62	
For >200 To 500, Add	0.25	
03 21 11 00-0091 LF #6, Grade 60, Footings, Steel Reinforcement Bar	2.29	
For Up To 100, Add	1.62	
For >100 To 200, Add	0.87	
For >200 To 500, Add	0.35	
03 21 11 00-0092 LF #7, Grade 60, Footings, Steel Reinforcement Bar	2.97	
For Up To 100, Add	1.68	
For >100 To 200, Add	0.98	
For >200 To 400, Add	0.46	
03 21 11 00-0093 LF #8, Grade 60, Footings, Steel Reinforcement Bar	3.69	
For Up To 100, Add	2.12	
For >100 To 200, Add	1.23	
For >200 To 400, Add	0.58	
03 21 11 00-0094 LF #9, Grade 60, Footings, Steel Reinforcement Bar	4.54	
For Up To 100, Add	2.65	
For >100 To 200, Add	1.53	
For >200 To 400, Add	0.72	
03 21 11 00-0095 LF #10, Grade 60, Footings, Steel Reinforcement Bar	5.54	
For Up To 100, Add	3.28	
For >100 To 200, Add	1.89	
For >200 To 400, Add	0.89	
For Up To 100, Add	2.67	
For >100 To 200, Add	1.44	
For >200 To 300, Add	0.72	
03 21 11 00-0096 LF #11, Grade 60, Footings, Steel Reinforcement Bar	6.59	
For Up To 100, Add	3.96	
For >100 To 200, Add	2.27	
For >200 To 400, Add	1.07	
For Up To 100, Add	3.22	
For >100 To 200, Add	1.73	
For >200 To 300, Add	0.87	
03 21 11 00-0097 LF #14, Grade 60, Footings, Steel Reinforcement Bar	9.14	
For Up To 100, Add	5.58	
For >100 To 200, Add	3.18	
For >200 To 400, Add	1.51	
For Up To 100, Add	4.53	
For >100 To 200, Add	2.42	
For >200 To 300, Add	1.21	
03 21 11 00-0098 LF #18, Grade 60, Footings, Steel Reinforcement Bar	15.61	
For Up To 100, Add	9.70	
For >100 To 200, Add	5.49	
For >200 To 400, Add	2.62	
For Up To 100, Add	7.86	
For >100 To 200, Add	4.18	
For >200 To 300, Add	2.09	
03 21 11 00-0099 LF #6, Grade 75, Footings, Steel Reinforcement Bar	2.37	
For Up To 100, Add	1.70	
For >100 To 200, Add	0.91	
For >200 To 500, Add	0.36	
For Up To 100, Add	1.33	
For >100 To 200, Add	0.78	
For >200 To 400, Add	0.36	
03 21 11 00-0100 LF #7, Grade 75, Footings, Steel Reinforcement Bar	3.08	
For Up To 100, Add	1.76	
For >100 To 200, Add	1.03	
For >200 To 400, Add	0.48	
03 21 11 00-0101 LF #8, Grade 75, Footings, Steel Reinforcement Bar	3.83	
For Up To 100, Add	2.23	
For >100 To 200, Add	1.29	
For >200 To 400, Add	0.61	
03 21 11 00-0102 LF #9, Grade 75, Footings, Steel Reinforcement Bar	4.71	
For Up To 100, Add	2.78	
For >100 To 200, Add	1.60	
For >200 To 400, Add	0.75	
03 21 11 00-0103 LF #10, Grade 75, Footings, Steel Reinforcement Bar	5.76	
For Up To 100, Add	2.80	
For >100 To 200, Add	1.51	
For >200 To 300, Add	0.75	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 11 00-0104	LF		#11, Grade 75, Footings, Steel Reinforcement Bar	6.87	
			For Up To 100, Add	3.38	
			For >100 To 200, Add	1.82	
			For >200 To 300, Add	0.91	
03 21 11 00-0105	LF		#14, Grade 75, Footings, Steel Reinforcement Bar	9.54	
			For Up To 100, Add	4.77	
			For >100 To 200, Add	2.54	
			For >200 To 300, Add	1.27	
03 21 11 00-0106	LF		#18, Grade 75, Footings, Steel Reinforcement Bar	16.31	
			For Up To 100, Add	8.28	
			For >100 To 200, Add	4.39	
			For >200 To 300, Add	2.20	
03 21 11 00-0107	LF		#3, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	0.67	
			For Up To 100, Add	0.45	
			For >100 To 200, Add	0.25	
			For >200 To 500, Add	0.10	
03 21 11 00-0108	LF		#4, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	1.14	
			For Up To 100, Add	0.79	
			For >100 To 200, Add	0.42	
			For >200 To 500, Add	0.17	
03 21 11 00-0109	LF		#5, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	1.70	
			For Up To 100, Add	1.19	
			For >100 To 200, Add	0.64	
			For >200 To 500, Add	0.26	
03 21 11 00-0110	LF		#6, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	2.35	
			For Up To 100, Add	1.68	
			For >100 To 200, Add	0.90	
			For >200 To 500, Add	0.36	
03 21 11 00-0111	LF		#7, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	3.05	
			For Up To 100, Add	1.74	
			For >100 To 200, Add	1.01	
			For >200 To 400, Add	0.47	
03 21 11 00-0112	LF		#8, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	3.79	
			For Up To 100, Add	2.20	
			For >100 To 200, Add	1.27	
			For >200 To 400, Add	0.60	
03 21 11 00-0113	LF		#9, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	4.67	
			For Up To 100, Add	2.75	
			For >100 To 200, Add	1.58	
			For >200 To 400, Add	0.75	
03 21 11 00-0114	LF		#10, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	5.70	
			For Up To 100, Add	2.76	
			For >100 To 200, Add	1.49	
			For >200 To 300, Add	0.75	
03 21 11 00-0115	LF		#11, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	6.80	
			For Up To 100, Add	3.34	
			For >100 To 200, Add	1.79	
			For >200 To 300, Add	0.90	
03 21 11 00-0116	LF		#14, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	9.44	
			For Up To 100, Add	4.71	
			For >100 To 200, Add	2.51	
			For >200 To 300, Add	1.26	
03 21 11 00-0117	LF		#18, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	16.14	
			For Up To 100, Add	8.18	
			For >100 To 200, Add	4.34	
			For >200 To 300, Add	2.17	
03 21 11 00-0118			Slab On Grade, Steel Reinforcement Bar <small>(03 21 11)</small>		
			Note: ASTM A-615 Plain Steel and A-706 Low Alloy Steel.		
03 21 11 00-0119	LF		#3, Grade 40, Slab On Grade, Steel Reinforcement Bar	0.60	
			For Up To 100, Add	0.40	
			For >100 To 200, Add	0.22	
			For >200 To 500, Add	0.09	
03 21 11 00-0120	LF		#4, Grade 40, Slab On Grade, Steel Reinforcement Bar	1.01	
			For Up To 100, Add	0.68	
			For >100 To 200, Add	0.37	
			For >200 To 500, Add	0.15	
03 21 11 00-0121	LF		#5, Grade 40, Slab On Grade, Steel Reinforcement Bar	1.51	
			For Up To 100, Add	1.04	
			For >100 To 200, Add	0.56	
			For >200 To 500, Add	0.22	
03 21 11 00-0122	LF		#6, Grade 40, Slab On Grade, Steel Reinforcement Bar	2.08	
			For Up To 100, Add	1.46	
			For >100 To 200, Add	0.78	
			For >200 To 500, Add	0.31	
03 21 11 00-0123	LF		#3, Grade 50, Slab On Grade, Steel Reinforcement Bar	0.61	
			For Up To 100, Add	0.41	
			For >100 To 200, Add	0.22	
			For >200 To 500, Add	0.09	
03 21 11 00-0124	LF		#4, Grade 50, Slab On Grade, Steel Reinforcement Bar	1.03	
			For Up To 100, Add	0.70	
			For >100 To 200, Add	0.38	
			For >200 To 500, Add	0.15	



Concrete	03	03
Concrete Reinforcing	03 20	
Reinforcement Bars	03 21	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 11 00-0125 LF #5, Grade 50, Slab On Grade, Steel Reinforcement Bar	1.55	
For Up To 100, Add	1.08	
For >100 To 200, Add	0.58	
For >200 To 500, Add	0.23	
03 21 11 00-0126 LF #6, Grade 50, Slab On Grade, Steel Reinforcement Bar	2.13	
For Up To 100, Add	1.51	
For >100 To 200, Add	0.81	
For >200 To 500, Add	0.32	
03 21 11 00-0127 LF #3, Grade 60, Slab On Grade, Steel Reinforcement Bar	0.63	
For Up To 100, Add	0.43	
For >100 To 200, Add	0.23	
For >200 To 500, Add	0.09	
03 21 11 00-0128 LF #4, Grade 60, Slab On Grade, Steel Reinforcement Bar	1.07	
For Up To 100, Add	0.74	
For >100 To 200, Add	0.40	
For >200 To 500, Add	0.16	
03 21 11 00-0129 LF #5, Grade 60, Slab On Grade, Steel Reinforcement Bar	1.60	
For Up To 100, Add	1.13	
For >100 To 200, Add	0.60	
For >200 To 500, Add	0.24	
03 21 11 00-0130 LF #6, Grade 60, Slab On Grade, Steel Reinforcement Bar	2.21	
For Up To 100, Add	1.59	
For >100 To 200, Add	0.85	
For >200 To 500, Add	0.34	
03 21 11 00-0131 LF #7, Grade 60, Slab On Grade, Steel Reinforcement Bar	2.89	
For Up To 100, Add	1.65	
For >100 To 200, Add	0.96	
For >200 To 400, Add	0.45	
03 21 11 00-0132 LF #8, Grade 60, Slab On Grade, Steel Reinforcement Bar	3.60	
For Up To 100, Add	2.09	
For >100 To 200, Add	1.21	
For >200 To 400, Add	0.57	
03 21 11 00-0133 LF #9, Grade 60, Slab On Grade, Steel Reinforcement Bar	4.43	
For Up To 100, Add	2.61	
For >100 To 200, Add	1.51	
For >200 To 400, Add	0.71	
03 21 11 00-0134 LF #10, Grade 60, Slab On Grade, Steel Reinforcement Bar	5.41	
For Up To 100, Add	2.63	
For >100 To 200, Add	1.42	
For >200 To 300, Add	0.71	
03 21 11 00-0135 LF #11, Grade 60, Slab On Grade, Steel Reinforcement Bar	6.45	
For Up To 100, Add	3.17	
For >100 To 200, Add	1.70	
For >200 To 300, Add	0.85	
03 21 11 00-0136 LF #14, Grade 60, Slab On Grade, Steel Reinforcement Bar	8.94	
For Up To 100, Add	4.47	
For >100 To 200, Add	2.38	
For >200 To 300, Add	1.19	
03 21 11 00-0137 LF #18, Grade 60, Slab On Grade, Steel Reinforcement Bar	15.32	
For Up To 100, Add	7.77	
For >100 To 200, Add	4.12	
For >200 To 300, Add	2.06	
03 21 11 00-0138 LF #6, Grade 75, Slab On Grade, Steel Reinforcement Bar	2.29	
For Up To 100, Add	1.67	
For >100 To 200, Add	0.89	
For >200 To 500, Add	0.35	
03 21 11 00-0139 LF #7, Grade 75, Slab On Grade, Steel Reinforcement Bar	3.00	
For Up To 100, Add	1.73	
For >100 To 200, Add	1.01	
For >200 To 400, Add	0.47	
03 21 11 00-0140 LF #8, Grade 75, Slab On Grade, Steel Reinforcement Bar	3.74	
For Up To 100, Add	2.20	
For >100 To 200, Add	1.27	
For >200 To 400, Add	0.60	
03 21 11 00-0141 LF #9, Grade 75, Slab On Grade, Steel Reinforcement Bar	4.60	
For Up To 100, Add	2.74	
For >100 To 200, Add	1.57	
For >200 To 400, Add	0.74	
03 21 11 00-0142 LF #10, Grade 75, Slab On Grade, Steel Reinforcement Bar	5.63	
For Up To 100, Add	2.76	
For >100 To 200, Add	1.48	
For >200 To 300, Add	0.74	
03 21 11 00-0143 LF #11, Grade 75, Slab On Grade, Steel Reinforcement Bar	6.73	
For Up To 100, Add	3.34	
For >100 To 200, Add	1.79	
For >200 To 300, Add	0.89	
03 21 11 00-0144 LF #14, Grade 75, Slab On Grade, Steel Reinforcement Bar	9.34	
For Up To 100, Add	4.71	
For >100 To 200, Add	2.50	
For >200 To 300, Add	1.25	
03 21 11 00-0145 LF #18, Grade 75, Slab On Grade, Steel Reinforcement Bar	16.02	
For Up To 100, Add	8.19	
For >100 To 200, Add	4.33	
For >200 To 300, Add	2.17	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 11 00-0146	LF	#3, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	.....	0.65	
		<i>For Up To 100, Add</i>		0.45	
		<i>For >100 To 200, Add</i>		0.24	
		<i>For >200 To 500, Add</i>		0.10	
03 21 11 00-0147	LF	#4, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	.....	1.10	
		<i>For Up To 100, Add</i>		0.77	
		<i>For >100 To 200, Add</i>		0.41	
		<i>For >200 To 500, Add</i>		0.17	
03 21 11 00-0148	LF	#5, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	.....	1.64	
		<i>For Up To 100, Add</i>		1.17	
		<i>For >100 To 200, Add</i>		0.62	
		<i>For >200 To 500, Add</i>		0.25	
03 21 11 00-0149	LF	#6, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	.....	2.27	
		<i>For Up To 100, Add</i>		1.65	
		<i>For >100 To 200, Add</i>		0.88	
		<i>For >200 To 500, Add</i>		0.35	
03 21 11 00-0150	LF	#7, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	.....	2.97	
		<i>For Up To 100, Add</i>		1.71	
		<i>For >100 To 200, Add</i>		0.99	
		<i>For >200 To 400, Add</i>		0.46	
03 21 11 00-0151	LF	#8, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	.....	3.70	
		<i>For Up To 100, Add</i>		2.17	
		<i>For >100 To 200, Add</i>		1.25	
		<i>For >200 To 400, Add</i>		0.59	
03 21 11 00-0152	LF	#9, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	.....	4.56	
		<i>For Up To 100, Add</i>		2.71	
		<i>For >100 To 200, Add</i>		1.56	
		<i>For >200 To 400, Add</i>		0.73	
03 21 11 00-0153	LF	#10, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	.....	5.57	
		<i>For Up To 100, Add</i>		2.72	
		<i>For >100 To 200, Add</i>		1.47	
		<i>For >200 To 300, Add</i>		0.73	
03 21 11 00-0154	LF	#11, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	.....	6.66	
		<i>For Up To 100, Add</i>		3.30	
		<i>For >100 To 200, Add</i>		1.77	
		<i>For >200 To 300, Add</i>		0.88	
03 21 11 00-0155	LF	#14, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	.....	9.24	
		<i>For Up To 100, Add</i>		4.65	
		<i>For >100 To 200, Add</i>		2.47	
		<i>For >200 To 300, Add</i>		1.24	
03 21 11 00-0156	LF	#18, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	.....	15.85	
		<i>For Up To 100, Add</i>		8.09	
		<i>For >100 To 200, Add</i>		4.28	
		<i>For >200 To 300, Add</i>		2.14	
03 21 11 00-0157		Elevated Slabs, Steel Reinforcement Bar <small>(03 21 11)</small>			
		Note: ASTM A-615 Plain Steel and A-706 Low Alloy Steel.			
03 21 11 00-0158	LF	#3, Grade 40, Elevated Slabs, Steel Reinforcement Bar	.....	0.55	
		<i>For Up To 100, Add</i>		0.38	
		<i>For >100 To 200, Add</i>		0.20	
		<i>For >200 To 500, Add</i>		0.08	
03 21 11 00-0159	LF	#4, Grade 40, Elevated Slabs, Steel Reinforcement Bar	.....	0.94	
		<i>For Up To 100, Add</i>		0.65	
		<i>For >100 To 200, Add</i>		0.35	
		<i>For >200 To 500, Add</i>		0.14	
03 21 11 00-0160	LF	#5, Grade 40, Elevated Slabs, Steel Reinforcement Bar	.....	1.41	
		<i>For Up To 100, Add</i>		1.00	
		<i>For >100 To 200, Add</i>		0.53	
		<i>For >200 To 500, Add</i>		0.21	
03 21 11 00-0161	LF	#6, Grade 40, Elevated Slabs, Steel Reinforcement Bar	.....	1.95	
		<i>For Up To 100, Add</i>		1.40	
		<i>For >100 To 200, Add</i>		0.75	
		<i>For >200 To 500, Add</i>		0.30	
03 21 11 00-0162	LF	#3, Grade 50, Elevated Slabs, Steel Reinforcement Bar	.....	0.56	
		<i>For Up To 100, Add</i>		0.39	
		<i>For >100 To 200, Add</i>		0.21	
		<i>For >200 To 500, Add</i>		0.08	
03 21 11 00-0163	LF	#4, Grade 50, Elevated Slabs, Steel Reinforcement Bar	.....	0.96	
		<i>For Up To 100, Add</i>		0.67	
		<i>For >100 To 200, Add</i>		0.36	
		<i>For >200 To 500, Add</i>		0.14	
03 21 11 00-0164	LF	#5, Grade 50, Elevated Slabs, Steel Reinforcement Bar	.....	1.45	
		<i>For Up To 100, Add</i>		1.04	
		<i>For >100 To 200, Add</i>		0.55	
		<i>For >200 To 500, Add</i>		0.22	
03 21 11 00-0165	LF	#6, Grade 50, Elevated Slabs, Steel Reinforcement Bar	.....	2.00	
		<i>For Up To 100, Add</i>		1.45	
		<i>For >100 To 200, Add</i>		0.77	
		<i>For >200 To 500, Add</i>		0.31	
03 21 11 00-0166	LF	#3, Grade 60, Elevated Slabs, Steel Reinforcement Bar	.....	0.58	
		<i>For Up To 100, Add</i>		0.41	
		<i>For >100 To 200, Add</i>		0.22	
		<i>For >200 To 500, Add</i>		0.09	



Concrete	03	03
Concrete Reinforcing	03 20	
Reinforcement Bars	03 21	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 11 00-0167 LF #4, Grade 60, Elevated Slabs, Steel Reinforcement Bar	1.00	
<i>For Up To 100, Add</i>	0.71	
<i>For >100 To 200, Add</i>	0.38	
<i>For >200 To 500, Add</i>	0.15	
03 21 11 00-0168 LF #5, Grade 60, Elevated Slabs, Steel Reinforcement Bar	1.50	
<i>For Up To 100, Add</i>	1.09	
<i>For >100 To 200, Add</i>	0.58	
<i>For >200 To 500, Add</i>	0.23	
03 21 11 00-0169 LF #6, Grade 60, Elevated Slabs, Steel Reinforcement Bar	2.08	
<i>For Up To 100, Add</i>	1.53	
<i>For >100 To 200, Add</i>	0.81	
<i>For >200 To 500, Add</i>	0.33	
03 21 11 00-0170 LF #7, Grade 60, Elevated Slabs, Steel Reinforcement Bar	2.73	
<i>For Up To 100, Add</i>	1.59	
<i>For >100 To 200, Add</i>	0.92	
<i>For >200 To 400, Add</i>	0.43	
03 21 11 00-0171 LF #8, Grade 60, Elevated Slabs, Steel Reinforcement Bar	3.40	
<i>For Up To 100, Add</i>	2.02	
<i>For >100 To 200, Add</i>	1.16	
<i>For >200 To 400, Add</i>	0.55	
03 21 11 00-0172 LF #9, Grade 60, Elevated Slabs, Steel Reinforcement Bar	4.21	
<i>For Up To 100, Add</i>	2.53	
<i>For >100 To 200, Add</i>	1.45	
<i>For >200 To 400, Add</i>	0.69	
03 21 11 00-0173 LF #10, Grade 60, Elevated Slabs, Steel Reinforcement Bar	5.16	
<i>For Up To 100, Add</i>	2.55	
<i>For >100 To 200, Add</i>	1.37	
<i>For >200 To 300, Add</i>	0.68	
03 21 11 00-0174 LF #11, Grade 60, Elevated Slabs, Steel Reinforcement Bar	6.16	
<i>For Up To 100, Add</i>	3.09	
<i>For >100 To 200, Add</i>	1.65	
<i>For >200 To 300, Add</i>	0.82	
03 21 11 00-0175 LF #14, Grade 60, Elevated Slabs, Steel Reinforcement Bar	8.57	
<i>For Up To 100, Add</i>	4.36	
<i>For >100 To 200, Add</i>	2.31	
<i>For >200 To 300, Add</i>	1.15	
03 21 11 00-0176 LF #18, Grade 60, Elevated Slabs, Steel Reinforcement Bar	14.73	
<i>For Up To 100, Add</i>	7.59	
<i>For >100 To 200, Add</i>	4.00	
<i>For >200 To 300, Add</i>	2.00	
03 21 11 00-0177 LF #6, Grade 75, Elevated Slabs, Steel Reinforcement Bar	2.16	
<i>For Up To 100, Add</i>	1.61	
<i>For >100 To 200, Add</i>	0.85	
<i>For >200 To 500, Add</i>	0.34	
03 21 11 00-0178 LF #7, Grade 75, Elevated Slabs, Steel Reinforcement Bar	2.84	
<i>For Up To 100, Add</i>	1.67	
<i>For >100 To 200, Add</i>	0.97	
<i>For >200 To 400, Add</i>	0.45	
03 21 11 00-0179 LF #8, Grade 75, Elevated Slabs, Steel Reinforcement Bar	3.54	
<i>For Up To 100, Add</i>	2.13	
<i>For >100 To 200, Add</i>	1.22	
<i>For >200 To 400, Add</i>	0.58	
03 21 11 00-0180 LF #9, Grade 75, Elevated Slabs, Steel Reinforcement Bar	4.38	
<i>For Up To 100, Add</i>	2.66	
<i>For >100 To 200, Add</i>	1.52	
<i>For >200 To 400, Add</i>	0.72	
03 21 11 00-0181 LF #10, Grade 75, Elevated Slabs, Steel Reinforcement Bar	5.38	
<i>For Up To 100, Add</i>	2.69	
<i>For >100 To 200, Add</i>	1.43	
<i>For >200 To 300, Add</i>	0.72	
03 21 11 00-0182 LF #11, Grade 75, Elevated Slabs, Steel Reinforcement Bar	6.44	
<i>For Up To 100, Add</i>	3.26	
<i>For >100 To 200, Add</i>	1.73	
<i>For >200 To 300, Add</i>	0.86	
03 21 11 00-0183 LF #14, Grade 75, Elevated Slabs, Steel Reinforcement Bar	8.97	
<i>For Up To 100, Add</i>	4.60	
<i>For >100 To 200, Add</i>	2.43	
<i>For >200 To 300, Add</i>	1.21	
03 21 11 00-0184 LF #18, Grade 75, Elevated Slabs, Steel Reinforcement Bar	15.43	
<i>For Up To 100, Add</i>	8.01	
<i>For >100 To 200, Add</i>	4.21	
<i>For >200 To 300, Add</i>	2.11	
03 21 11 00-0185 LF #3, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	0.60	
<i>For Up To 100, Add</i>	0.43	
<i>For >100 To 200, Add</i>	0.23	
<i>For >200 To 500, Add</i>	0.09	
03 21 11 00-0186 LF #4, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	1.03	
<i>For Up To 100, Add</i>	0.74	
<i>For >100 To 200, Add</i>	0.40	
<i>For >200 To 500, Add</i>	0.16	
03 21 11 00-0187 LF #5, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	1.54	
<i>For Up To 100, Add</i>	1.13	
<i>For >100 To 200, Add</i>	0.60	
<i>For >200 To 500, Add</i>	0.24	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 11 00-0188	LF		#6, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	2.14	
			For Up To 100, Add	1.59	
			For >100 To 200, Add	0.84	
			For >200 To 500, Add	0.34	
03 21 11 00-0189	LF		#7, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	2.81	
			For Up To 100, Add	1.65	
			For >100 To 200, Add	0.95	
			For >200 To 400, Add	0.45	
03 21 11 00-0190	LF		#8, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	3.50	
			For Up To 100, Add	2.10	
			For >100 To 200, Add	1.20	
			For >200 To 400, Add	0.57	
03 21 11 00-0191	LF		#9, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	4.34	
			For Up To 100, Add	2.63	
			For >100 To 200, Add	1.50	
			For >200 To 400, Add	0.71	
03 21 11 00-0192	LF		#10, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	5.32	
			For Up To 100, Add	2.65	
			For >100 To 200, Add	1.42	
			For >200 To 300, Add	0.71	
03 21 11 00-0193	LF		#11, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	6.37	
			For Up To 100, Add	3.21	
			For >100 To 200, Add	1.71	
			For >200 To 300, Add	0.85	
03 21 11 00-0194	LF		#14, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	8.87	
			For Up To 100, Add	4.54	
			For >100 To 200, Add	2.40	
			For >200 To 300, Add	1.20	
03 21 11 00-0195	LF		#18, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	15.26	
			For Up To 100, Add	7.91	
			For >100 To 200, Add	4.16	
			For >200 To 300, Add	2.08	
03 21 11 00-0196			Walls, Steel Reinforcement Bar <small>(03 21 11)</small>		
			Note: ASTM A-615 Plain Steel and A-706 Low Alloy Steel.		
03 21 11 00-0197	LF		#3, Grade 40, Walls, Steel Reinforcement Bar	0.53	
			For Up To 100, Add	0.37	
			For >100 To 200, Add	0.20	
			For >200 To 500, Add	0.08	
03 21 11 00-0198	LF		#4, Grade 40, Walls, Steel Reinforcement Bar	0.90	
			For Up To 100, Add	0.64	
			For >100 To 200, Add	0.34	
			For >200 To 500, Add	0.14	
03 21 11 00-0199	LF		#5, Grade 40, Walls, Steel Reinforcement Bar	1.36	
			For Up To 100, Add	0.98	
			For >100 To 200, Add	0.52	
			For >200 To 500, Add	0.21	
03 21 11 00-0200	LF		#6, Grade 40, Walls, Steel Reinforcement Bar	1.89	
			For Up To 100, Add	1.38	
			For >100 To 200, Add	0.73	
			For >200 To 500, Add	0.29	
03 21 11 00-0201	LF		#3, Grade 50, Walls, Steel Reinforcement Bar	0.54	
			For Up To 100, Add	0.38	
			For >100 To 200, Add	0.20	
			For >200 To 500, Add	0.08	
03 21 11 00-0202	LF		#4, Grade 50, Walls, Steel Reinforcement Bar	0.92	
			For Up To 100, Add	0.66	
			For >100 To 200, Add	0.35	
			For >200 To 500, Add	0.14	
03 21 11 00-0203	LF		#5, Grade 50, Walls, Steel Reinforcement Bar	1.40	
			For Up To 100, Add	1.02	
			For >100 To 200, Add	0.54	
			For >200 To 500, Add	0.22	
03 21 11 00-0204	LF		#6, Grade 50, Walls, Steel Reinforcement Bar	1.94	
			For Up To 100, Add	1.43	
			For >100 To 200, Add	0.76	
			For >200 To 500, Add	0.30	
03 21 11 00-0205	LF		#3, Grade 60, Walls, Steel Reinforcement Bar	0.56	
			For Up To 100, Add	0.40	
			For >100 To 200, Add	0.21	
			For >200 To 500, Add	0.09	
03 21 11 00-0206	LF		#4, Grade 60, Walls, Steel Reinforcement Bar	0.96	
			For Up To 100, Add	0.70	
			For >100 To 200, Add	0.37	
			For >200 To 500, Add	0.15	
03 21 11 00-0207	LF		#5, Grade 60, Walls, Steel Reinforcement Bar	1.45	
			For Up To 100, Add	1.07	
			For >100 To 200, Add	0.57	
			For >200 To 500, Add	0.23	
03 21 11 00-0208	LF		#6, Grade 60, Walls, Steel Reinforcement Bar	2.02	
			For Up To 100, Add	1.51	
			For >100 To 200, Add	0.80	
			For >200 To 500, Add	0.32	



Concrete	03	03
Concrete Reinforcing	03 20	
Reinforcement Bars	03 21	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 11 00-0209 LF #7, Grade 60, Walls, Steel Reinforcement Bar	2.63	
For Up To 100, Add	1.56	
For >100 To 200, Add	0.90	
For >200 To 400, Add	0.42	
03 21 11 00-0210 LF #8, Grade 60, Walls, Steel Reinforcement Bar	3.31	
For Up To 100, Add	1.99	
For >100 To 200, Add	1.14	
For >200 To 400, Add	0.54	
03 21 11 00-0211 LF #9, Grade 60, Walls, Steel Reinforcement Bar	4.10	
For Up To 100, Add	2.50	
For >100 To 200, Add	1.42	
For >200 To 400, Add	0.68	
03 21 11 00-0212 LF #10, Grade 60, Walls, Steel Reinforcement Bar	5.03	
For Up To 100, Add	2.51	
For >100 To 200, Add	1.34	
For >200 To 300, Add	0.67	
03 21 11 00-0213 LF #11, Grade 60, Walls, Steel Reinforcement Bar	6.02	
For Up To 100, Add	3.05	
For >100 To 200, Add	1.62	
For >200 To 300, Add	0.81	
03 21 11 00-0214 LF #14, Grade 60, Walls, Steel Reinforcement Bar	8.39	
For Up To 100, Add	4.30	
For >100 To 200, Add	2.27	
For >200 To 300, Add	1.14	
03 21 11 00-0215 LF #18, Grade 60, Walls, Steel Reinforcement Bar	14.44	
For Up To 100, Add	7.51	
For >100 To 200, Add	3.95	
For >200 To 300, Add	1.97	
03 21 11 00-0216 LF #6, Grade 75, Walls, Steel Reinforcement Bar	2.10	
For Up To 100, Add	1.59	
For >100 To 200, Add	0.84	
For >200 To 500, Add	0.34	
03 21 11 00-0217 LF #7, Grade 75, Walls, Steel Reinforcement Bar	2.74	
For Up To 100, Add	1.64	
For >100 To 200, Add	0.94	
For >200 To 400, Add	0.44	
03 21 11 00-0218 LF #8, Grade 75, Walls, Steel Reinforcement Bar	3.45	
For Up To 100, Add	2.10	
For >100 To 200, Add	1.20	
For >200 To 400, Add	0.57	
03 21 11 00-0219 LF #9, Grade 75, Walls, Steel Reinforcement Bar	4.27	
For Up To 100, Add	2.62	
For >100 To 200, Add	1.49	
For >200 To 400, Add	0.71	
03 21 11 00-0220 LF #10, Grade 75, Walls, Steel Reinforcement Bar	5.25	
For Up To 100, Add	2.65	
For >100 To 200, Add	1.41	
For >200 To 300, Add	0.70	
03 21 11 00-0221 LF #11, Grade 75, Walls, Steel Reinforcement Bar	6.30	
For Up To 100, Add	3.21	
For >100 To 200, Add	1.70	
For >200 To 300, Add	0.85	
03 21 11 00-0222 LF #14, Grade 75, Walls, Steel Reinforcement Bar	8.79	
For Up To 100, Add	4.54	
For >100 To 200, Add	2.39	
For >200 To 300, Add	1.20	
03 21 11 00-0223 LF #18, Grade 75, Walls, Steel Reinforcement Bar	15.14	
For Up To 100, Add	7.93	
For >100 To 200, Add	4.16	
For >200 To 300, Add	2.08	
03 21 11 00-0224 LF #3, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	0.58	
For Up To 100, Add	0.42	
For >100 To 200, Add	0.22	
For >200 To 500, Add	0.09	
03 21 11 00-0225 LF #4, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	0.99	
For Up To 100, Add	0.73	
For >100 To 200, Add	0.39	
For >200 To 500, Add	0.15	
03 21 11 00-0226 LF #5, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	1.49	
For Up To 100, Add	1.11	
For >100 To 200, Add	0.59	
For >200 To 500, Add	0.23	
03 21 11 00-0227 LF #6, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	2.08	
For Up To 100, Add	1.57	
For >100 To 200, Add	0.83	
For >200 To 500, Add	0.33	
03 21 11 00-0228 LF #7, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	2.71	
For Up To 100, Add	1.62	
For >100 To 200, Add	0.93	
For >200 To 400, Add	0.44	
03 21 11 00-0229 LF #8, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	3.41	
For Up To 100, Add	2.07	
For >100 To 200, Add	1.18	
For >200 To 400, Add	0.56	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 11 00-0230	LF		#9, Grade 60, Walls, Low Alloy Steel Reinforcement Bar.....	4.23	
			<i>For Up To 100, Add</i>	2.59	
			<i>For >100 To 200, Add</i>	1.47	
			<i>For >200 To 400, Add</i>	0.70	
03 21 11 00-0231	LF		#10, Grade 60, Walls, Low Alloy Steel Reinforcement Bar.....	5.19	
			<i>For Up To 100, Add</i>	2.61	
			<i>For >100 To 200, Add</i>	1.39	
			<i>For >200 To 300, Add</i>	0.69	
03 21 11 00-0232	LF		#11, Grade 60, Walls, Low Alloy Steel Reinforcement Bar.....	6.23	
			<i>For Up To 100, Add</i>	3.17	
			<i>For >100 To 200, Add</i>	1.68	
			<i>For >200 To 300, Add</i>	0.84	
03 21 11 00-0233	LF		#14, Grade 60, Walls, Low Alloy Steel Reinforcement Bar.....	8.69	
			<i>For Up To 100, Add</i>	4.48	
			<i>For >100 To 200, Add</i>	2.36	
			<i>For >200 To 300, Add</i>	1.18	
03 21 11 00-0234	LF		#18, Grade 60, Walls, Low Alloy Steel Reinforcement Bar.....	14.97	
			<i>For Up To 100, Add</i>	7.82	
			<i>For >100 To 200, Add</i>	4.11	
			<i>For >200 To 300, Add</i>	2.05	
03 21 11 00-0235			Mechanical Joint Connection (03 21 11)		
03 21 11 00-0236			Thermal Type Mechanical Joint Connection (03 21 11 00-0235)		
03 21 11 00-0237	EA		Thermal Type Mechanical Joint Connection, Add Per Splice.....	221.69	
03 21 11 00-0238			Screwed Type Mechanical Joint Connection (03 21 11 00-0235)		
03 21 11 00-0239	EA		Screwed Type Mechanical Joint Connection, Add Per Splice.....	121.78	
03 21 11 00-0240			Deformed Straight Dowels (03 21 11)		
			Note: Excludes drilling.		
03 21 11 00-0241	EA		3/8" Diameter x 24" Long, Deformed Straight Dowel.....	3.08	
			<i>For Up To 12" Length, Deduct</i>	-0.34	
			<i>For >12" To <24" Length, Deduct</i>	-0.17	
03 21 11 00-0242	EA		1/2" Diameter x 24" Long, Deformed Straight Dowel.....	3.68	
			<i>For Up To 12" Length, Deduct</i>	-0.45	
			<i>For >12" To <24" Length, Deduct</i>	-0.23	
03 21 11 00-0243	EA		5/8" Diameter x 24" Long, Deformed Straight Dowel.....	4.46	
			<i>For Up To 12" Length, Deduct</i>	-0.71	
			<i>For >12" To <24" Length, Deduct</i>	-0.36	
03 21 11 00-0244	EA		3/4" Diameter x 24" Long, Deformed Straight Dowel.....	5.39	
			<i>For Up To 12" Length, Deduct</i>	-1.02	
			<i>For >12" To <24" Length, Deduct</i>	-0.51	
03 21 11 00-0245	EA		7/8" Diameter x 24" Long, Deformed Straight Dowel.....	6.32	
			<i>For Up To 12" Length, Deduct</i>	-1.43	
			<i>For >12" To <24" Length, Deduct</i>	-0.71	
03 21 11 00-0246	EA		1" Diameter x 24" Long, Deformed Straight Dowel.....	7.97	
			<i>For Up To 12" Length, Deduct</i>	-1.83	
			<i>For >12" To <24" Length, Deduct</i>	-0.92	
03 21 11 00-0247	EA		1-1/8" Diameter x 24" Long, Deformed Straight Dowel.....	9.36	
			<i>For Up To 12" Length, Deduct</i>	-2.26	
			<i>For >12" To <24" Length, Deduct</i>	-1.13	
03 21 11 00-0248	EA		1-1/4" Diameter x 24" Long, Deformed Straight Dowel.....	11.43	
			<i>For Up To 12" Length, Deduct</i>	-2.95	
			<i>For >12" To <24" Length, Deduct</i>	-1.47	
03 21 11 00-0249	EA		1-3/8" Diameter x 24" Long, Deformed Straight Dowel.....	13.55	
			<i>For Up To 12" Length, Deduct</i>	-3.64	
			<i>For >12" To <24" Length, Deduct</i>	-1.82	
03 21 11 00-0250			Spirals, Reinforcing Steel (03 21 11)		
03 21 11 00-0251	TON		Up To 15" Diameter, Grade 60, Spirals, Reinforcing Steel.....	3,577.68	
			<i>For Grade 75, Add</i>	134.43	
03 21 11 00-0252	TON		>15" To 24" Diameter, Grade 60, Spirals, Reinforcing Steel.....	3,534.82	
			<i>For Grade 75, Add</i>	134.43	
03 21 11 00-0253	TON		>24" To 36" Diameter, Grade 60, Spirals, Reinforcing Steel.....	3,502.15	
			<i>For Grade 75, Add</i>	134.43	
03 21 11 00-0254	TON		>36" To 48" Diameter, Grade 60, Spirals, Reinforcing Steel.....	3,448.70	
			<i>For Grade 75, Add</i>	134.43	
03 21 11 00-0255	TON		>48" To 64" Diameter, Grade 60, Spirals, Reinforcing Steel.....	3,376.42	
			<i>For Grade 75, Add</i>	134.43	
03 21 11 00-0256	TON		>64" To 84" Diameter, Grade 60, Spirals, Reinforcing Steel.....	3,349.03	
			<i>For Grade 75, Add</i>	137.74	
03 21 11 00-0257	TON		>84" To 96" Diameter, Grade 60, Spirals, Reinforcing Steel.....	3,288.52	
			<i>For Grade 75, Add</i>	137.74	
03 21 11 00-0258			Dowel Or Hairpin, Drilled And Epoxy Into Concrete (03 21 11)		
03 21 11 00-0259	EA		Dowels Or Hairpin, 1/2" x 30" Length, Drilled And Epoxy In Concrete, 6" Embedment.....	30.30	
03 21 11 00-0260	EA		Dowels Or Hairpin, 1/2" x 36" Length, Drilled And Epoxy In Concrete, >6" To 12" Embedment.....	31.65	



Concrete	03	03
Concrete Reinforcing	03 20	
Reinforcement Bars	03 21	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
------------------------------	---------------------------	-------------------------

03 21 11 00-0261	Accessories For Reinforcing Steel <small>(03 21 11)</small>		
03 21 11 00-0262	Reinforcing Steel Lap-Weld Splice <small>(03 21 11 00-0261)</small>		
03 21 11 00-0263	EA Up To #6 Reinforcing Steel Lap-Weld Splice.....	60.31	
03 21 11 00-0264	EA >#6 Reinforcing Steel Lap-Weld Splice.....	95.34	

03 21 11 00-0265	Reinforcing Steel Sleeve And Wedge Splice Joint <small>(03 21 11 00-0261)</small>		
03 21 11 00-0266	EA Up To #4 Reinforcing Steel, Sleeve And Wedge Splice Joint.....	32.98	
03 21 11 00-0267	EA #5 Reinforcing Steel, Sleeve And Wedge Splice Joint.....	49.01	
03 21 11 00-0268	EA #6 Reinforcing Steel, Sleeve And Wedge Splice Joint.....	71.67	

03 21 13 Galvanized Reinforcement Steel Bars (03 21)

03 21 13 00-0001	Beams And Girders, Galvanized Steel Reinforcement Bar <small>(03 21 13)</small>		
	Note: ASTM A-767 Hot Dipped Galvanized Steel.		
03 21 13 00-0002	LF #3, Grade 40, Beams And Girders, Galvanized Steel Reinforcement Bar.....	0.81	
	For Up To 100, Add	0.56	
	For >100 To 200, Add	0.30	
	For >200 To 500, Add	0.12	
03 21 13 00-0003	LF #4, Grade 40, Beams And Girders, Galvanized Steel Reinforcement Bar.....	1.38	
	For Up To 100, Add	0.97	
	For >100 To 200, Add	0.52	
	For >200 To 500, Add	0.21	
03 21 13 00-0004	LF #5, Grade 40, Beams And Girders, Galvanized Steel Reinforcement Bar.....	2.08	
	For Up To 100, Add	1.49	
	For >100 To 200, Add	0.79	
	For >200 To 500, Add	0.32	
03 21 13 00-0005	LF #6, Grade 40, Beams And Girders, Galvanized Steel Reinforcement Bar.....	2.88	
	For Up To 100, Add	2.09	
	For >100 To 200, Add	1.11	
	For >200 To 500, Add	0.45	
03 21 13 00-0006	LF #3, Grade 50, Beams And Girders, Galvanized Steel Reinforcement Bar.....	0.83	
	For Up To 100, Add	0.58	
	For >100 To 200, Add	0.31	
	For >200 To 500, Add	0.12	
03 21 13 00-0007	LF #4, Grade 50, Beams And Girders, Galvanized Steel Reinforcement Bar.....	1.40	
	For Up To 100, Add	0.99	
	For >100 To 200, Add	0.53	
	For >200 To 500, Add	0.21	
03 21 13 00-0008	LF #5, Grade 50, Beams And Girders, Galvanized Steel Reinforcement Bar.....	2.12	
	For Up To 100, Add	1.53	
	For >100 To 200, Add	0.81	
	For >200 To 500, Add	0.33	
03 21 13 00-0009	LF #6, Grade 50, Beams And Girders, Galvanized Steel Reinforcement Bar.....	2.93	
	For Up To 100, Add	2.14	
	For >100 To 200, Add	1.14	
	For >200 To 500, Add	0.46	
03 21 13 00-0010	LF #3, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar.....	0.85	
	For Up To 100, Add	0.60	
	For >100 To 200, Add	0.32	
	For >200 To 500, Add	0.13	
03 21 13 00-0011	LF #4, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar.....	1.44	
	For Up To 100, Add	1.03	
	For >100 To 200, Add	0.55	
	For >200 To 500, Add	0.22	
03 21 13 00-0012	LF #5, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar.....	2.17	
	For Up To 100, Add	1.58	
	For >100 To 200, Add	0.84	
	For >200 To 500, Add	0.34	
03 21 13 00-0013	LF #6, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar.....	3.01	
	For Up To 100, Add	2.22	
	For >100 To 200, Add	1.18	
	For >200 To 500, Add	0.47	
03 21 13 00-0014	LF #7, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar.....	3.92	
	For Up To 100, Add	2.30	
	For >100 To 200, Add	1.33	
	For >200 To 400, Add	0.62	
03 21 13 00-0015	LF #8, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar.....	4.92	
	For Up To 100, Add	2.93	
	For >100 To 200, Add	1.68	
	For >200 To 400, Add	0.79	
03 21 13 00-0016	LF #9, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar.....	6.07	
	For Up To 100, Add	3.66	
	For >100 To 200, Add	2.10	
	For >200 To 400, Add	0.99	
03 21 13 00-0017	LF #10, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar.....	7.45	
	For Up To 100, Add	3.70	
	For >100 To 200, Add	1.98	
	For >200 To 300, Add	0.99	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 13 00-0018	LF		#11, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	8.90	
			For Up To 100, Add	4.47	
			For >100 To 200, Add	2.38	
			For >200 To 300, Add	1.19	
03 21 13 00-0019	LF		#14, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	12.41	
			For Up To 100, Add	6.32	
			For >100 To 200, Add	3.35	
			For >200 To 300, Add	1.67	
03 21 13 00-0020	LF		#18, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	21.32	
			For Up To 100, Add	11.01	
			For >100 To 200, Add	5.80	
			For >200 To 300, Add	2.90	
03 21 13 00-0021	LF		#6, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar	3.09	
			For Up To 100, Add	2.30	
			For >100 To 200, Add	1.22	
			For >200 To 500, Add	0.49	
03 21 13 00-0022	LF		#7, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar	4.03	
			For Up To 100, Add	2.38	
			For >100 To 200, Add	1.37	
			For >200 To 400, Add	0.65	
03 21 13 00-0023	LF		#8, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar	5.06	
			For Up To 100, Add	3.04	
			For >100 To 200, Add	1.74	
			For >200 To 400, Add	0.82	
03 21 13 00-0024	LF		#9, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar	6.24	
			For Up To 100, Add	3.79	
			For >100 To 200, Add	2.16	
			For >200 To 400, Add	1.03	
03 21 13 00-0025	LF		#10, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar	7.67	
			For Up To 100, Add	3.83	
			For >100 To 200, Add	2.04	
			For >200 To 300, Add	1.02	
03 21 13 00-0026	LF		#11, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar	9.18	
			For Up To 100, Add	4.64	
			For >100 To 200, Add	2.47	
			For >200 To 300, Add	1.23	
03 21 13 00-0027	LF		#14, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar	12.80	
			For Up To 100, Add	6.56	
			For >100 To 200, Add	3.47	
			For >200 To 300, Add	1.73	
03 21 13 00-0028	LF		#18, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar	22.03	
			For Up To 100, Add	11.44	
			For >100 To 200, Add	6.02	
			For >200 To 300, Add	3.01	
03 21 13 00-0029			Columns, Galvanized Steel Reinforcement Bar <small>(03 21 13)</small>		
			Note: ASTM A-767 Hot Dipped Galvanized Steel.		
03 21 13 00-0030	LF		#3, Grade 40, Columns, Galvanized Steel Reinforcement Bar	0.85	
			For Up To 100, Add	0.57	
			For >100 To 200, Add	0.31	
			For >200 To 500, Add	0.12	
03 21 13 00-0031	LF		#4, Grade 40, Columns, Galvanized Steel Reinforcement Bar	1.46	
			For Up To 100, Add	1.00	
			For >100 To 200, Add	0.54	
			For >200 To 500, Add	0.22	
03 21 13 00-0032	LF		#5, Grade 40, Columns, Galvanized Steel Reinforcement Bar	2.17	
			For Up To 100, Add	1.52	
			For >100 To 200, Add	0.82	
			For >200 To 500, Add	0.33	
03 21 13 00-0033	LF		#6, Grade 40, Columns, Galvanized Steel Reinforcement Bar	3.01	
			For Up To 100, Add	2.15	
			For >100 To 200, Add	1.15	
			For >200 To 500, Add	0.46	
03 21 13 00-0034	LF		#3, Grade 50, Columns, Galvanized Steel Reinforcement Bar	0.87	
			For Up To 100, Add	0.59	
			For >100 To 200, Add	0.32	
			For >200 To 500, Add	0.13	
03 21 13 00-0035	LF		#4, Grade 50, Columns, Galvanized Steel Reinforcement Bar	1.48	
			For Up To 100, Add	1.02	
			For >100 To 200, Add	0.55	
			For >200 To 500, Add	0.22	
03 21 13 00-0036	LF		#5, Grade 50, Columns, Galvanized Steel Reinforcement Bar	2.21	
			For Up To 100, Add	1.56	
			For >100 To 200, Add	0.84	
			For >200 To 500, Add	0.33	
03 21 13 00-0037	LF		#6, Grade 50, Columns, Galvanized Steel Reinforcement Bar	3.06	
			For Up To 100, Add	2.20	
			For >100 To 200, Add	1.17	
			For >200 To 500, Add	0.47	
03 21 13 00-0038	LF		#3, Grade 60, Columns, Galvanized Steel Reinforcement Bar	0.89	
			For Up To 100, Add	0.61	
			For >100 To 200, Add	0.33	
			For >200 To 500, Add	0.13	



Concrete	03	CS
Concrete Reinforcing	03 20	
Reinforcement Bars	03 21	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 13 00-0039 LF #4, Grade 60, Columns, Galvanized Steel Reinforcement Bar.....	1.52	
For Up To 100, Add	1.06	
For >100 To 200, Add	0.57	
For >200 To 500, Add	0.23	
03 21 13 00-0040 LF #5, Grade 60, Columns, Galvanized Steel Reinforcement Bar.....	2.26	
For Up To 100, Add	1.61	
For >100 To 200, Add	0.86	
For >200 To 500, Add	0.34	
03 21 13 00-0041 LF #6, Grade 60, Columns, Galvanized Steel Reinforcement Bar.....	3.14	
For Up To 100, Add	2.28	
For >100 To 200, Add	1.21	
For >200 To 500, Add	0.48	
03 21 13 00-0042 LF #7, Grade 60, Columns, Galvanized Steel Reinforcement Bar.....	4.09	
For Up To 100, Add	2.36	
For >100 To 200, Add	1.37	
For >200 To 400, Add	0.64	
03 21 13 00-0043 LF #8, Grade 60, Columns, Galvanized Steel Reinforcement Bar.....	5.10	
For Up To 100, Add	2.99	
For >100 To 200, Add	1.73	
For >200 To 400, Add	0.81	
03 21 13 00-0044 LF #9, Grade 60, Columns, Galvanized Steel Reinforcement Bar.....	6.29	
For Up To 100, Add	3.74	
For >100 To 200, Add	2.15	
For >200 To 400, Add	1.01	
03 21 13 00-0045 LF #10, Grade 60, Columns, Galvanized Steel Reinforcement Bar.....	7.70	
For Up To 100, Add	3.77	
For >100 To 200, Add	2.03	
For >200 To 300, Add	1.01	
03 21 13 00-0046 LF #11, Grade 60, Columns, Galvanized Steel Reinforcement Bar.....	9.19	
For Up To 100, Add	4.56	
For >100 To 200, Add	2.44	
For >200 To 300, Add	1.22	
03 21 13 00-0047 LF #14, Grade 60, Columns, Galvanized Steel Reinforcement Bar.....	12.79	
For Up To 100, Add	6.44	
For >100 To 200, Add	3.42	
For >200 To 300, Add	1.71	
03 21 13 00-0048 LF #18, Grade 60, Columns, Galvanized Steel Reinforcement Bar.....	21.90	
For Up To 100, Add	11.19	
For >100 To 200, Add	5.92	
For >200 To 300, Add	2.96	
03 21 13 00-0049 LF #6, Grade 75, Columns, Galvanized Steel Reinforcement Bar.....	3.22	
For Up To 100, Add	2.36	
For >100 To 200, Add	1.25	
For >200 To 500, Add	0.50	
03 21 13 00-0050 LF #7, Grade 75, Columns, Galvanized Steel Reinforcement Bar.....	4.20	
For Up To 100, Add	2.44	
For >100 To 200, Add	1.41	
For >200 To 400, Add	0.66	
03 21 13 00-0051 LF #8, Grade 75, Columns, Galvanized Steel Reinforcement Bar.....	5.24	
For Up To 100, Add	3.10	
For >100 To 200, Add	1.78	
For >200 To 400, Add	0.84	
03 21 13 00-0052 LF #9, Grade 75, Columns, Galvanized Steel Reinforcement Bar.....	6.46	
For Up To 100, Add	3.87	
For >100 To 200, Add	2.22	
For >200 To 400, Add	1.05	
03 21 13 00-0053 LF #10, Grade 75, Columns, Galvanized Steel Reinforcement Bar.....	7.92	
For Up To 100, Add	3.90	
For >100 To 200, Add	2.09	
For >200 To 300, Add	1.05	
03 21 13 00-0054 LF #11, Grade 75, Columns, Galvanized Steel Reinforcement Bar.....	9.47	
For Up To 100, Add	4.73	
For >100 To 200, Add	2.52	
For >200 To 300, Add	1.26	
03 21 13 00-0055 LF #14, Grade 75, Columns, Galvanized Steel Reinforcement Bar.....	13.18	
For Up To 100, Add	6.67	
For >100 To 200, Add	3.54	
For >200 To 300, Add	1.77	
03 21 13 00-0056 LF #18, Grade 75, Columns, Galvanized Steel Reinforcement Bar.....	22.61	
For Up To 100, Add	11.61	
For >100 To 200, Add	6.13	
For >200 To 300, Add	3.07	
03 21 13 00-0057 Footings, Galvanized Steel Reinforcement Bar <small>(03 21 13)</small>		
Note: ASTM A-767 Hot Dipped Galvanized Steel.		
03 21 13 00-0058 LF #3, Grade 40, Footings, Galvanized Steel Reinforcement Bar.....	0.75	
For Up To 100, Add	0.53	
For >100 To 200, Add	0.29	
For >200 To 500, Add	0.11	
03 21 13 00-0059 LF #4, Grade 40, Footings, Galvanized Steel Reinforcement Bar.....	1.29	
For Up To 100, Add	0.94	
For >100 To 200, Add	0.50	
For >200 To 500, Add	0.20	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21	13 00-0060	LF	#5, Grade 40, Footings, Galvanized Steel Reinforcement Bar	1.94	
			<i>For Up To 100, Add</i>	1.43	
			<i>For >100 To 200, Add</i>	0.76	
			<i>For >200 To 500, Add</i>	0.30	
03 21	13 00-0061	LF	#6, Grade 40, Footings, Galvanized Steel Reinforcement Bar	2.69	
			<i>For Up To 100, Add</i>	2.02	
			<i>For >100 To 200, Add</i>	1.07	
			<i>For >200 To 500, Add</i>	0.43	
03 21	13 00-0062	LF	#3, Grade 50, Footings, Galvanized Steel Reinforcement Bar	0.77	
			<i>For Up To 100, Add</i>	0.55	
			<i>For >100 To 200, Add</i>	0.30	
			<i>For >200 To 500, Add</i>	0.12	
03 21	13 00-0063	LF	#4, Grade 50, Footings, Galvanized Steel Reinforcement Bar	1.31	
			<i>For Up To 100, Add</i>	0.96	
			<i>For >100 To 200, Add</i>	0.51	
			<i>For >200 To 500, Add</i>	0.20	
03 21	13 00-0064	LF	#5, Grade 50, Footings, Galvanized Steel Reinforcement Bar	1.98	
			<i>For Up To 100, Add</i>	1.47	
			<i>For >100 To 200, Add</i>	0.78	
			<i>For >200 To 500, Add</i>	0.31	
03 21	13 00-0065	LF	#6, Grade 50, Footings, Galvanized Steel Reinforcement Bar	2.74	
			<i>For Up To 100, Add</i>	2.07	
			<i>For >100 To 200, Add</i>	1.09	
			<i>For >200 To 500, Add</i>	0.44	
03 21	13 00-0066	LF	#3, Grade 60, Footings, Galvanized Steel Reinforcement Bar	0.79	
			<i>For Up To 100, Add</i>	0.57	
			<i>For >100 To 200, Add</i>	0.31	
			<i>For >200 To 500, Add</i>	0.12	
03 21	13 00-0067	LF	#4, Grade 60, Footings, Galvanized Steel Reinforcement Bar	1.35	
			<i>For Up To 100, Add</i>	1.00	
			<i>For >100 To 200, Add</i>	0.53	
			<i>For >200 To 500, Add</i>	0.21	
03 21	13 00-0068	LF	#5, Grade 60, Footings, Galvanized Steel Reinforcement Bar	2.03	
			<i>For Up To 100, Add</i>	1.52	
			<i>For >100 To 200, Add</i>	0.80	
			<i>For >200 To 500, Add</i>	0.32	
03 21	13 00-0069	LF	#6, Grade 60, Footings, Galvanized Steel Reinforcement Bar	2.82	
			<i>For Up To 100, Add</i>	2.15	
			<i>For >100 To 200, Add</i>	1.13	
			<i>For >200 To 500, Add</i>	0.45	
03 21	13 00-0070	LF	#7, Grade 60, Footings, Galvanized Steel Reinforcement Bar	3.69	
			<i>For Up To 100, Add</i>	2.22	
			<i>For >100 To 200, Add</i>	1.27	
			<i>For >200 To 400, Add</i>	0.60	
03 21	13 00-0071	LF	#8, Grade 60, Footings, Galvanized Steel Reinforcement Bar	4.63	
			<i>For Up To 100, Add</i>	2.83	
			<i>For >100 To 200, Add</i>	1.61	
			<i>For >200 To 400, Add</i>	0.77	
03 21	13 00-0072	LF	#9, Grade 60, Footings, Galvanized Steel Reinforcement Bar	5.74	
			<i>For Up To 100, Add</i>	3.55	
			<i>For >100 To 200, Add</i>	2.01	
			<i>For >200 To 400, Add</i>	0.96	
03 21	13 00-0073	LF	#10, Grade 60, Footings, Galvanized Steel Reinforcement Bar	7.06	
			<i>For Up To 100, Add</i>	3.58	
			<i>For >100 To 200, Add</i>	1.90	
			<i>For >200 To 300, Add</i>	0.95	
03 21	13 00-0074	LF	#11, Grade 60, Footings, Galvanized Steel Reinforcement Bar	8.47	
			<i>For Up To 100, Add</i>	4.34	
			<i>For >100 To 200, Add</i>	2.30	
			<i>For >200 To 300, Add</i>	1.15	
03 21	13 00-0075	LF	#14, Grade 60, Footings, Galvanized Steel Reinforcement Bar	11.85	
			<i>For Up To 100, Add</i>	6.15	
			<i>For >100 To 200, Add</i>	3.24	
			<i>For >200 To 300, Add</i>	1.62	
03 21	13 00-0076	LF	#18, Grade 60, Footings, Galvanized Steel Reinforcement Bar	20.42	
			<i>For Up To 100, Add</i>	10.74	
			<i>For >100 To 200, Add</i>	5.62	
			<i>For >200 To 300, Add</i>	2.81	
03 21	13 00-0077	LF	#6, Grade 75, Footings, Galvanized Steel Reinforcement Bar	2.90	
			<i>For Up To 100, Add</i>	2.23	
			<i>For >100 To 200, Add</i>	1.17	
			<i>For >200 To 500, Add</i>	0.47	
03 21	13 00-0078	LF	#7, Grade 75, Footings, Galvanized Steel Reinforcement Bar	3.80	
			<i>For Up To 100, Add</i>	2.30	
			<i>For >100 To 200, Add</i>	1.31	
			<i>For >200 To 400, Add</i>	0.62	
03 21	13 00-0079	LF	#8, Grade 75, Footings, Galvanized Steel Reinforcement Bar	4.77	
			<i>For Up To 100, Add</i>	2.93	
			<i>For >100 To 200, Add</i>	1.67	
			<i>For >200 To 400, Add</i>	0.79	
03 21	13 00-0080	LF	#9, Grade 75, Footings, Galvanized Steel Reinforcement Bar	5.91	
			<i>For Up To 100, Add</i>	3.68	
			<i>For >100 To 200, Add</i>	2.08	
			<i>For >200 To 400, Add</i>	0.99	



Concrete	03	03
Concrete Reinforcing	03 20	
Reinforcement Bars	03 21	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 13 00-0081 LF #10, Grade 75, Footings, Galvanized Steel Reinforcement Bar	7.28	
For Up To 100, Add	3.71	
For >100 To 200, Add	1.97	
For >200 To 300, Add	0.98	
03 21 13 00-0082 LF #11, Grade 75, Footings, Galvanized Steel Reinforcement Bar	8.75	
For Up To 100, Add	4.51	
For >100 To 200, Add	2.38	
For >200 To 300, Add	1.19	
03 21 13 00-0083 LF #14, Grade 75, Footings, Galvanized Steel Reinforcement Bar	12.24	
For Up To 100, Add	6.39	
For >100 To 200, Add	3.35	
For >200 To 300, Add	1.68	
03 21 13 00-0084 LF #18, Grade 75, Footings, Galvanized Steel Reinforcement Bar	21.13	
For Up To 100, Add	11.17	
For >100 To 200, Add	5.84	
For >200 To 300, Add	2.92	
03 21 13 00-0085 Slab On Grade, Galvanized Steel Reinforcement Bar (03 21 13)		
Note: ASTM A-767 Hot Dipped Galvanized Steel.		
03 21 13 00-0086 LF #3, Grade 40, Slab On Grade, Galvanized Steel Reinforcement Bar	0.73	
For Up To 100, Add	0.53	
For >100 To 200, Add	0.28	
For >200 To 500, Add	0.11	
03 21 13 00-0087 LF #4, Grade 40, Slab On Grade, Galvanized Steel Reinforcement Bar	1.25	
For Up To 100, Add	0.92	
For >100 To 200, Add	0.49	
For >200 To 500, Add	0.20	
03 21 13 00-0088 LF #5, Grade 40, Slab On Grade, Galvanized Steel Reinforcement Bar	1.88	
For Up To 100, Add	1.41	
For >100 To 200, Add	0.74	
For >200 To 500, Add	0.30	
03 21 13 00-0089 LF #6, Grade 40, Slab On Grade, Galvanized Steel Reinforcement Bar	2.61	
For Up To 100, Add	1.99	
For >100 To 200, Add	1.05	
For >200 To 500, Add	0.42	
03 21 13 00-0090 LF #3, Grade 50, Slab On Grade, Galvanized Steel Reinforcement Bar	0.75	
For Up To 100, Add	0.55	
For >100 To 200, Add	0.29	
For >200 To 500, Add	0.12	
03 21 13 00-0091 LF #4, Grade 50, Slab On Grade, Galvanized Steel Reinforcement Bar	1.27	
For Up To 100, Add	0.94	
For >100 To 200, Add	0.50	
For >200 To 500, Add	0.20	
03 21 13 00-0092 LF #5, Grade 50, Slab On Grade, Galvanized Steel Reinforcement Bar	1.92	
For Up To 100, Add	1.45	
For >100 To 200, Add	0.76	
For >200 To 500, Add	0.31	
03 21 13 00-0093 LF #6, Grade 50, Slab On Grade, Galvanized Steel Reinforcement Bar	2.66	
For Up To 100, Add	2.04	
For >100 To 200, Add	1.07	
For >200 To 500, Add	0.43	
03 21 13 00-0094 LF #3, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	0.77	
For Up To 100, Add	0.57	
For >100 To 200, Add	0.30	
For >200 To 500, Add	0.12	
03 21 13 00-0095 LF #4, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	1.31	
For Up To 100, Add	0.98	
For >100 To 200, Add	0.52	
For >200 To 500, Add	0.21	
03 21 13 00-0096 LF #5, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	1.97	
For Up To 100, Add	1.50	
For >100 To 200, Add	0.79	
For >200 To 500, Add	0.32	
03 21 13 00-0097 LF #6, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	2.74	
For Up To 100, Add	2.12	
For >100 To 200, Add	1.11	
For >200 To 500, Add	0.44	
03 21 13 00-0098 LF #7, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	3.61	
For Up To 100, Add	2.19	
For >100 To 200, Add	1.25	
For >200 To 400, Add	0.59	
03 21 13 00-0099 LF #8, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	4.54	
For Up To 100, Add	2.80	
For >100 To 200, Add	1.59	
For >200 To 400, Add	0.76	
03 21 13 00-0100 LF #9, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	5.63	
For Up To 100, Add	3.51	
For >100 To 200, Add	1.99	
For >200 To 400, Add	0.95	
03 21 13 00-0101 LF #10, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	6.93	
For Up To 100, Add	3.54	
For >100 To 200, Add	1.87	
For >200 To 300, Add	0.94	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21	13 00-0102	LF	#11, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	8.33	
			For Up To 100, Add	4.30	
			For >100 To 200, Add	2.27	
			For >200 To 300, Add	1.13	
03 21	13 00-0103	LF	#14, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	11.65	
			For Up To 100, Add	6.09	
			For >100 To 200, Add	3.20	
			For >200 To 300, Add	1.60	
03 21	13 00-0104	LF	#18, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	20.13	
			For Up To 100, Add	10.66	
			For >100 To 200, Add	5.57	
			For >200 To 300, Add	2.78	
03 21	13 00-0105	LF	#6, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar	2.82	
			For Up To 100, Add	2.20	
			For >100 To 200, Add	1.15	
			For >200 To 500, Add	0.46	
03 21	13 00-0106	LF	#7, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar	3.72	
			For Up To 100, Add	2.27	
			For >100 To 200, Add	1.29	
			For >200 To 400, Add	0.61	
03 21	13 00-0107	LF	#8, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar	4.68	
			For Up To 100, Add	2.90	
			For >100 To 200, Add	1.64	
			For >200 To 400, Add	0.78	
03 21	13 00-0108	LF	#9, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar	5.80	
			For Up To 100, Add	3.64	
			For >100 To 200, Add	2.05	
			For >200 To 400, Add	0.98	
03 21	13 00-0109	LF	#10, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar	7.15	
			For Up To 100, Add	3.67	
			For >100 To 200, Add	1.94	
			For >200 To 300, Add	0.97	
03 21	13 00-0110	LF	#11, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar	8.61	
			For Up To 100, Add	4.47	
			For >100 To 200, Add	2.35	
			For >200 To 300, Add	1.18	
03 21	13 00-0111	LF	#14, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar	12.04	
			For Up To 100, Add	6.33	
			For >100 To 200, Add	3.31	
			For >200 To 300, Add	1.66	
03 21	13 00-0112	LF	#18, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar	20.84	
			For Up To 100, Add	11.08	
			For >100 To 200, Add	5.78	
			For >200 To 300, Add	2.89	
03 21	13 00-0113		Elevated Slabs, Galvanized Steel Reinforcement Bar <small>(03 21 13)</small>		
			Note: ASTM A-767 Hot Dipped Galvanized Steel.		
03 21	13 00-0114	LF	#3, Grade 40, Elevated Slabs, Galvanized Steel Reinforcement Bar	0.68	
			For Up To 100, Add	0.51	
			For >100 To 200, Add	0.27	
			For >200 To 500, Add	0.11	
03 21	13 00-0115	LF	#4, Grade 40, Elevated Slabs, Galvanized Steel Reinforcement Bar	1.18	
			For Up To 100, Add	0.89	
			For >100 To 200, Add	0.47	
			For >200 To 500, Add	0.19	
03 21	13 00-0116	LF	#5, Grade 40, Elevated Slabs, Galvanized Steel Reinforcement Bar	1.78	
			For Up To 100, Add	1.37	
			For >100 To 200, Add	0.72	
			For >200 To 500, Add	0.29	
03 21	13 00-0117	LF	#6, Grade 40, Elevated Slabs, Galvanized Steel Reinforcement Bar	2.48	
			For Up To 100, Add	1.93	
			For >100 To 200, Add	1.01	
			For >200 To 500, Add	0.41	
03 21	13 00-0118	LF	#3, Grade 50, Elevated Slabs, Galvanized Steel Reinforcement Bar	0.70	
			For Up To 100, Add	0.53	
			For >100 To 200, Add	0.28	
			For >200 To 500, Add	0.11	
03 21	13 00-0119	LF	#4, Grade 50, Elevated Slabs, Galvanized Steel Reinforcement Bar	1.20	
			For Up To 100, Add	0.91	
			For >100 To 200, Add	0.48	
			For >200 To 500, Add	0.19	
03 21	13 00-0120	LF	#5, Grade 50, Elevated Slabs, Galvanized Steel Reinforcement Bar	1.82	
			For Up To 100, Add	1.41	
			For >100 To 200, Add	0.74	
			For >200 To 500, Add	0.30	
03 21	13 00-0121	LF	#6, Grade 50, Elevated Slabs, Galvanized Steel Reinforcement Bar	2.53	
			For Up To 100, Add	1.98	
			For >100 To 200, Add	1.04	
			For >200 To 500, Add	0.42	
03 21	13 00-0122	LF	#3, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	0.72	
			For Up To 100, Add	0.55	
			For >100 To 200, Add	0.29	
			For >200 To 500, Add	0.12	



Concrete	03	CS
Concrete Reinforcing	03 20	
Reinforcement Bars	03 21	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 13 00-0123 LF #4, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	1.24	
For Up To 100, Add	0.95	
For >100 To 200, Add	0.50	
For >200 To 500, Add	0.20	
03 21 13 00-0124 LF #5, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	1.87	
For Up To 100, Add	1.46	
For >100 To 200, Add	0.76	
For >200 To 500, Add	0.31	
03 21 13 00-0125 LF #6, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	2.61	
For Up To 100, Add	2.06	
For >100 To 200, Add	1.08	
For >200 To 500, Add	0.43	
03 21 13 00-0126 LF #7, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	3.45	
For Up To 100, Add	2.13	
For >100 To 200, Add	1.21	
For >200 To 400, Add	0.58	
03 21 13 00-0127 LF #8, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	4.34	
For Up To 100, Add	2.73	
For >100 To 200, Add	1.54	
For >200 To 400, Add	0.74	
03 21 13 00-0128 LF #9, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	5.41	
For Up To 100, Add	3.43	
For >100 To 200, Add	1.93	
For >200 To 400, Add	0.93	
03 21 13 00-0129 LF #10, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	6.68	
For Up To 100, Add	3.47	
For >100 To 200, Add	1.82	
For >200 To 300, Add	0.91	
03 21 13 00-0130 LF #11, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	8.04	
For Up To 100, Add	4.22	
For >100 To 200, Add	2.21	
For >200 To 300, Add	1.10	
03 21 13 00-0131 LF #14, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	11.28	
For Up To 100, Add	5.98	
For >100 To 200, Add	3.12	
For >200 To 300, Add	1.56	
03 21 13 00-0132 LF #18, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	19.54	
For Up To 100, Add	10.48	
For >100 To 200, Add	5.45	
For >200 To 300, Add	2.72	
03 21 13 00-0133 LF #6, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar	2.69	
For Up To 100, Add	2.14	
For >100 To 200, Add	1.12	
For >200 To 500, Add	0.45	
03 21 13 00-0134 LF #7, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar	3.56	
For Up To 100, Add	2.21	
For >100 To 200, Add	1.25	
For >200 To 400, Add	0.60	
03 21 13 00-0135 LF #8, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar	4.48	
For Up To 100, Add	2.83	
For >100 To 200, Add	1.59	
For >200 To 400, Add	0.76	
03 21 13 00-0136 LF #9, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar	5.58	
For Up To 100, Add	3.56	
For >100 To 200, Add	2.00	
For >200 To 400, Add	0.96	
03 21 13 00-0137 LF #10, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar	6.90	
For Up To 100, Add	3.60	
For >100 To 200, Add	1.89	
For >200 To 300, Add	0.94	
03 21 13 00-0138 LF #11, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar	8.32	
For Up To 100, Add	4.38	
For >100 To 200, Add	2.29	
For >200 To 300, Add	1.15	
03 21 13 00-0139 LF #14, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar	11.67	
For Up To 100, Add	6.22	
For >100 To 200, Add	3.24	
For >200 To 300, Add	1.62	
03 21 13 00-0140 LF #18, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar	20.25	
For Up To 100, Add	10.91	
For >100 To 200, Add	5.66	
For >200 To 300, Add	2.83	
03 21 13 00-0141 Walls, Galvanized Steel Reinforcement Bar <small>(03 21 13)</small>		
Note: ASTM A-767 Hot Dipped Galvanized Steel.		
03 21 13 00-0142 LF #3, Grade 40, Walls, Galvanized Steel Reinforcement Bar	0.66	
For Up To 100, Add	0.50	
For >100 To 200, Add	0.26	
For >200 To 500, Add	0.11	
03 21 13 00-0143 LF #4, Grade 40, Walls, Galvanized Steel Reinforcement Bar	1.14	
For Up To 100, Add	0.88	
For >100 To 200, Add	0.46	
For >200 To 500, Add	0.18	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21	13 00-0144	LF	#5, Grade 40, Walls, Galvanized Steel Reinforcement Bar	1.73	
			For Up To 100, Add	1.35	
			For >100 To 200, Add	0.71	
			For >200 To 500, Add	0.28	
03 21	13 00-0145	LF	#6, Grade 40, Walls, Galvanized Steel Reinforcement Bar	2.42	
			For Up To 100, Add	1.91	
			For >100 To 200, Add	1.00	
			For >200 To 500, Add	0.40	
03 21	13 00-0146	LF	#3, Grade 50, Walls, Galvanized Steel Reinforcement Bar	0.68	
			For Up To 100, Add	0.52	
			For >100 To 200, Add	0.27	
			For >200 To 500, Add	0.11	
03 21	13 00-0147	LF	#4, Grade 50, Walls, Galvanized Steel Reinforcement Bar	1.16	
			For Up To 100, Add	0.90	
			For >100 To 200, Add	0.47	
			For >200 To 500, Add	0.19	
03 21	13 00-0148	LF	#5, Grade 50, Walls, Galvanized Steel Reinforcement Bar	1.77	
			For Up To 100, Add	1.39	
			For >100 To 200, Add	0.73	
			For >200 To 500, Add	0.29	
03 21	13 00-0149	LF	#6, Grade 50, Walls, Galvanized Steel Reinforcement Bar	2.47	
			For Up To 100, Add	1.96	
			For >100 To 200, Add	1.02	
			For >200 To 500, Add	0.41	
03 21	13 00-0150	LF	#3, Grade 60, Walls, Galvanized Steel Reinforcement Bar	0.70	
			For Up To 100, Add	0.54	
			For >100 To 200, Add	0.28	
			For >200 To 500, Add	0.11	
03 21	13 00-0151	LF	#4, Grade 60, Walls, Galvanized Steel Reinforcement Bar	1.20	
			For Up To 100, Add	0.94	
			For >100 To 200, Add	0.49	
			For >200 To 500, Add	0.20	
03 21	13 00-0152	LF	#5, Grade 60, Walls, Galvanized Steel Reinforcement Bar	1.82	
			For Up To 100, Add	1.44	
			For >100 To 200, Add	0.75	
			For >200 To 500, Add	0.30	
03 21	13 00-0153	LF	#6, Grade 60, Walls, Galvanized Steel Reinforcement Bar	2.55	
			For Up To 100, Add	2.04	
			For >100 To 200, Add	1.06	
			For >200 To 500, Add	0.43	
03 21	13 00-0154	LF	#7, Grade 60, Walls, Galvanized Steel Reinforcement Bar	3.35	
			For Up To 100, Add	2.10	
			For >100 To 200, Add	1.18	
			For >200 To 400, Add	0.57	
03 21	13 00-0155	LF	#8, Grade 60, Walls, Galvanized Steel Reinforcement Bar	4.25	
			For Up To 100, Add	2.70	
			For >100 To 200, Add	1.52	
			For >200 To 400, Add	0.73	
03 21	13 00-0156	LF	#9, Grade 60, Walls, Galvanized Steel Reinforcement Bar	5.30	
			For Up To 100, Add	3.40	
			For >100 To 200, Add	1.90	
			For >200 To 400, Add	0.92	
03 21	13 00-0157	LF	#10, Grade 60, Walls, Galvanized Steel Reinforcement Bar	6.55	
			For Up To 100, Add	3.43	
			For >100 To 200, Add	1.80	
			For >200 To 300, Add	0.90	
03 21	13 00-0158	LF	#11, Grade 60, Walls, Galvanized Steel Reinforcement Bar	7.90	
			For Up To 100, Add	4.17	
			For >100 To 200, Add	2.18	
			For >200 To 300, Add	1.09	
03 21	13 00-0159	LF	#14, Grade 60, Walls, Galvanized Steel Reinforcement Bar	11.10	
			For Up To 100, Add	5.93	
			For >100 To 200, Add	3.09	
			For >200 To 300, Add	1.54	
03 21	13 00-0160	LF	#18, Grade 60, Walls, Galvanized Steel Reinforcement Bar	19.25	
			For Up To 100, Add	10.39	
			For >100 To 200, Add	5.39	
			For >200 To 300, Add	2.69	
03 21	13 00-0161	LF	#6, Grade 75, Walls, Galvanized Steel Reinforcement Bar	2.63	
			For Up To 100, Add	2.12	
			For >100 To 200, Add	1.10	
			For >200 To 500, Add	0.44	
03 21	13 00-0162	LF	#7, Grade 75, Walls, Galvanized Steel Reinforcement Bar	3.46	
			For Up To 100, Add	2.18	
			For >100 To 200, Add	1.23	
			For >200 To 400, Add	0.59	
03 21	13 00-0163	LF	#8, Grade 75, Walls, Galvanized Steel Reinforcement Bar	4.39	
			For Up To 100, Add	2.80	
			For >100 To 200, Add	1.57	
			For >200 To 400, Add	0.76	
03 21	13 00-0164	LF	#9, Grade 75, Walls, Galvanized Steel Reinforcement Bar	5.47	
			For Up To 100, Add	3.52	
			For >100 To 200, Add	1.97	
			For >200 To 400, Add	0.95	



Concrete	03	03
Concrete Reinforcing	03 20	
Reinforcement Bars	03 21	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 13 00-0165 LF #10, Grade 75, Walls, Galvanized Steel Reinforcement Bar	6.77	
For Up To 100, Add	3.56	
For >100 To 200, Add	1.86	
For >200 To 300, Add	0.93	
03 21 13 00-0166 LF #11, Grade 75, Walls, Galvanized Steel Reinforcement Bar	8.18	
For Up To 100, Add	4.34	
For >100 To 200, Add	2.27	
For >200 To 300, Add	1.13	
03 21 13 00-0167 LF #14, Grade 75, Walls, Galvanized Steel Reinforcement Bar	11.49	
For Up To 100, Add	6.16	
For >100 To 200, Add	3.20	
For >200 To 300, Add	1.60	
03 21 13 00-0168 LF #18, Grade 75, Walls, Galvanized Steel Reinforcement Bar	19.96	
For Up To 100, Add	10.82	
For >100 To 200, Add	5.60	
For >200 To 300, Add	2.80	

03 21 16 Epoxy-Coated Reinforcement Steel Bars (03 21)

03 21 16 00-0001 Beams And Girders, Epoxy Coated Steel Reinforcement Bar (03 21 16)

Note: ASTM A-775 Epoxy Coated Steel.

03 21 16 00-0002 LF #3, Grade 40, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	0.80	
For Up To 100, Add	0.55	
For >100 To 200, Add	0.30	
For >200 To 500, Add	0.12	
03 21 16 00-0003 LF #4, Grade 40, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	1.35	
For Up To 100, Add	0.94	
For >100 To 200, Add	0.51	
For >200 To 500, Add	0.20	
03 21 16 00-0004 LF #5, Grade 40, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	2.04	
For Up To 100, Add	1.45	
For >100 To 200, Add	0.77	
For >200 To 500, Add	0.31	
03 21 16 00-0005 LF #6, Grade 40, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	2.82	
For Up To 100, Add	2.03	
For >100 To 200, Add	1.08	
For >200 To 500, Add	0.43	
03 21 16 00-0006 LF #3, Grade 50, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	0.81	
For Up To 100, Add	0.56	
For >100 To 200, Add	0.30	
For >200 To 500, Add	0.12	
03 21 16 00-0007 LF #4, Grade 50, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	1.38	
For Up To 100, Add	0.97	
For >100 To 200, Add	0.52	
For >200 To 500, Add	0.21	
03 21 16 00-0008 LF #5, Grade 50, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	2.08	
For Up To 100, Add	1.49	
For >100 To 200, Add	0.79	
For >200 To 500, Add	0.32	
03 21 16 00-0009 LF #6, Grade 50, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	2.87	
For Up To 100, Add	2.08	
For >100 To 200, Add	1.11	
For >200 To 500, Add	0.44	
03 21 16 00-0010 LF #3, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	0.83	
For Up To 100, Add	0.58	
For >100 To 200, Add	0.31	
For >200 To 500, Add	0.12	
03 21 16 00-0011 LF #4, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	1.41	
For Up To 100, Add	1.00	
For >100 To 200, Add	0.54	
For >200 To 500, Add	0.21	
03 21 16 00-0012 LF #5, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	2.13	
For Up To 100, Add	1.54	
For >100 To 200, Add	0.82	
For >200 To 500, Add	0.33	
03 21 16 00-0013 LF #6, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	2.95	
For Up To 100, Add	2.16	
For >100 To 200, Add	1.15	
For >200 To 500, Add	0.46	
03 21 16 00-0014 LF #7, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	3.84	
For Up To 100, Add	2.24	
For >100 To 200, Add	1.29	
For >200 To 400, Add	0.61	
03 21 16 00-0015 LF #8, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	4.82	
For Up To 100, Add	2.86	
For >100 To 200, Add	1.64	
For >200 To 400, Add	0.77	
03 21 16 00-0016 LF #9, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	5.94	
For Up To 100, Add	3.57	
For >100 To 200, Add	2.04	
For >200 To 400, Add	0.97	
03 21 16 00-0017 LF #10, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	7.28	
For Up To 100, Add	3.59	
For >100 To 200, Add	1.93	
For >200 To 300, Add	0.96	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 16 00-0018 LF #11, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	8.70	
For Up To 100, Add	4.35	
For >100 To 200, Add	2.32	
For >200 To 300, Add	1.16	
03 21 16 00-0019 LF #14, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	12.11	
For Up To 100, Add	6.14	
For >100 To 200, Add	3.26	
For >200 To 300, Add	1.63	
03 21 16 00-0020 LF #18, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	20.80	
For Up To 100, Add	10.70	
For >100 To 200, Add	5.65	
For >200 To 300, Add	2.82	
03 21 16 00-0021 LF #6, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	3.03	
For Up To 100, Add	2.24	
For >100 To 200, Add	1.19	
For >200 To 500, Add	0.48	
03 21 16 00-0022 LF #7, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	3.95	
For Up To 100, Add	2.32	
For >100 To 200, Add	1.34	
For >200 To 400, Add	0.63	
03 21 16 00-0023 LF #8, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	4.96	
For Up To 100, Add	2.96	
For >100 To 200, Add	1.70	
For >200 To 400, Add	0.80	
03 21 16 00-0024 LF #9, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	6.11	
For Up To 100, Add	3.69	
For >100 To 200, Add	2.11	
For >200 To 400, Add	1.00	
03 21 16 00-0025 LF #10, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	7.51	
For Up To 100, Add	3.73	
For >100 To 200, Add	2.00	
For >200 To 300, Add	1.00	
03 21 16 00-0026 LF #11, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	8.97	
For Up To 100, Add	4.52	
For >100 To 200, Add	2.40	
For >200 To 300, Add	1.20	
03 21 16 00-0027 LF #14, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	12.51	
For Up To 100, Add	6.38	
For >100 To 200, Add	3.38	
For >200 To 300, Add	1.69	
03 21 16 00-0028 LF #18, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	21.50	
For Up To 100, Add	11.12	
For >100 To 200, Add	5.86	
For >200 To 300, Add	2.93	
03 21 16 00-0029 Columns, Epoxy Coated Steel Reinforcement Bar <small>(03 21 16)</small>		
Note: ASTM A-775 Epoxy Coated Steel.		
03 21 16 00-0030 LF #3, Grade 40, Columns, Epoxy Coated Steel Reinforcement Bar	0.84	
For Up To 100, Add	0.56	
For >100 To 200, Add	0.31	
For >200 To 500, Add	0.12	
03 21 16 00-0031 LF #4, Grade 40, Columns, Epoxy Coated Steel Reinforcement Bar	1.43	
For Up To 100, Add	0.97	
For >100 To 200, Add	0.53	
For >200 To 500, Add	0.21	
03 21 16 00-0032 LF #5, Grade 40, Columns, Epoxy Coated Steel Reinforcement Bar	2.13	
For Up To 100, Add	1.48	
For >100 To 200, Add	0.80	
For >200 To 500, Add	0.32	
03 21 16 00-0033 LF #6, Grade 40, Columns, Epoxy Coated Steel Reinforcement Bar	2.95	
For Up To 100, Add	2.09	
For >100 To 200, Add	1.12	
For >200 To 500, Add	0.45	
03 21 16 00-0034 LF #3, Grade 50, Columns, Epoxy Coated Steel Reinforcement Bar	0.85	
For Up To 100, Add	0.57	
For >100 To 200, Add	0.31	
For >200 To 500, Add	0.12	
03 21 16 00-0035 LF #4, Grade 50, Columns, Epoxy Coated Steel Reinforcement Bar	1.46	
For Up To 100, Add	1.00	
For >100 To 200, Add	0.54	
For >200 To 500, Add	0.22	
03 21 16 00-0036 LF #5, Grade 50, Columns, Epoxy Coated Steel Reinforcement Bar	2.17	
For Up To 100, Add	1.52	
For >100 To 200, Add	0.82	
For >200 To 500, Add	0.33	
03 21 16 00-0037 LF #6, Grade 50, Columns, Epoxy Coated Steel Reinforcement Bar	3.00	
For Up To 100, Add	2.14	
For >100 To 200, Add	1.14	
For >200 To 500, Add	0.46	
03 21 16 00-0038 LF #3, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	0.87	
For Up To 100, Add	0.59	
For >100 To 200, Add	0.32	
For >200 To 500, Add	0.13	



Concrete	03	03
Concrete Reinforcing	03 20	
Reinforcement Bars	03 21	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 16 00-0039 LF #4, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar <i>For Up To 100, Add</i> <i>For >100 To 200, Add</i> <i>For >200 To 500, Add</i>	1.49 1.03 0.56 0.22	
03 21 16 00-0040 LF #5, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar <i>For Up To 100, Add</i> <i>For >100 To 200, Add</i> <i>For >200 To 500, Add</i>	2.22 1.57 0.84 0.34	
03 21 16 00-0041 LF #6, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar <i>For Up To 100, Add</i> <i>For >100 To 200, Add</i> <i>For >200 To 500, Add</i>	3.08 2.22 1.18 0.47	
03 21 16 00-0042 LF #7, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar <i>For Up To 100, Add</i> <i>For >100 To 200, Add</i> <i>For >200 To 400, Add</i>	4.01 2.30 1.34 0.62	
03 21 16 00-0043 LF #8, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar <i>For Up To 100, Add</i> <i>For >100 To 200, Add</i> <i>For >200 To 400, Add</i>	5.00 2.92 1.69 0.79	
03 21 16 00-0044 LF #9, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar <i>For Up To 100, Add</i> <i>For >100 To 200, Add</i> <i>For >200 To 400, Add</i>	6.16 3.64 2.10 0.99	
03 21 16 00-0045 LF #10, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar <i>For Up To 100, Add</i> <i>For >100 To 200, Add</i> <i>For >200 To 300, Add</i>	7.53 3.67 1.98 0.99	
03 21 16 00-0046 LF #11, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar <i>For Up To 100, Add</i> <i>For >100 To 200, Add</i> <i>For >200 To 300, Add</i>	8.99 4.44 2.38 1.19	
03 21 16 00-0047 LF #14, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar <i>For Up To 100, Add</i> <i>For >100 To 200, Add</i> <i>For >200 To 300, Add</i>	12.49 6.26 3.33 1.67	
03 21 16 00-0048 LF #18, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar <i>For Up To 100, Add</i> <i>For >100 To 200, Add</i> <i>For >200 To 300, Add</i>	21.38 10.88 5.76 2.88	
03 21 16 00-0049 LF #6, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar <i>For Up To 100, Add</i> <i>For >100 To 200, Add</i> <i>For >200 To 500, Add</i>	3.16 2.30 1.22 0.49	
03 21 16 00-0050 LF #7, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar <i>For Up To 100, Add</i> <i>For >100 To 200, Add</i> <i>For >200 To 400, Add</i>	4.12 2.38 1.38 0.65	
03 21 16 00-0051 LF #8, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar <i>For Up To 100, Add</i> <i>For >100 To 200, Add</i> <i>For >200 To 400, Add</i>	5.14 3.02 1.74 0.82	
03 21 16 00-0052 LF #9, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar <i>For Up To 100, Add</i> <i>For >100 To 200, Add</i> <i>For >200 To 400, Add</i>	6.33 3.77 2.17 1.02	
03 21 16 00-0053 LF #10, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar <i>For Up To 100, Add</i> <i>For >100 To 200, Add</i> <i>For >200 To 300, Add</i>	7.76 3.81 2.05 1.02	
03 21 16 00-0054 LF #11, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar <i>For Up To 100, Add</i> <i>For >100 To 200, Add</i> <i>For >200 To 300, Add</i>	9.26 4.60 2.46 1.23	
03 21 16 00-0055 LF #14, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar <i>For Up To 100, Add</i> <i>For >100 To 200, Add</i> <i>For >200 To 300, Add</i>	12.89 6.50 3.45 1.73	
03 21 16 00-0056 LF #18, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar <i>For Up To 100, Add</i> <i>For >100 To 200, Add</i> <i>For >200 To 300, Add</i>	22.08 11.30 5.97 2.99	
03 21 16 00-0057 Footings, Epoxy Coated Steel Reinforcement Bar <small>(03 21 16)</small> Note: ASTM A-775 Epoxy Coated Steel.		
03 21 16 00-0058 LF #3, Grade 40, Footings, Epoxy Coated Steel Reinforcement Bar <i>For Up To 100, Add</i> <i>For >100 To 200, Add</i> <i>For >200 To 500, Add</i>	0.74 0.52 0.28 0.11	
03 21 16 00-0059 LF #4, Grade 40, Footings, Epoxy Coated Steel Reinforcement Bar <i>For Up To 100, Add</i> <i>For >100 To 200, Add</i> <i>For >200 To 500, Add</i>	1.26 0.91 0.48 0.19	

03	Concrete
03 20	Concrete Reinforcing
03 21	Reinforcement Bars



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 16 00-0060	LF	#5, Grade 40, Footings, Epoxy Coated Steel Reinforcement Bar	.....	1.90	
		<i>For Up To 100, Add</i>		1.39	
		<i>For >100 To 200, Add</i>		0.74	
		<i>For >200 To 500, Add</i>		0.30	
03 21 16 00-0061	LF	#6, Grade 40, Footings, Epoxy Coated Steel Reinforcement Bar	.....	2.63	
		<i>For Up To 100, Add</i>		1.96	
		<i>For >100 To 200, Add</i>		1.04	
		<i>For >200 To 500, Add</i>		0.41	
03 21 16 00-0062	LF	#3, Grade 50, Footings, Epoxy Coated Steel Reinforcement Bar	.....	0.75	
		<i>For Up To 100, Add</i>		0.53	
		<i>For >100 To 200, Add</i>		0.29	
		<i>For >200 To 500, Add</i>		0.11	
03 21 16 00-0063	LF	#4, Grade 50, Footings, Epoxy Coated Steel Reinforcement Bar	.....	1.29	
03 21 16 00-0064	LF	#5, Grade 50, Footings, Epoxy Coated Steel Reinforcement Bar	.....	1.94	
		<i>For Up To 100, Add</i>		1.43	
		<i>For >100 To 200, Add</i>		0.76	
		<i>For >200 To 500, Add</i>		0.30	
03 21 16 00-0065	LF	#6, Grade 50, Footings, Epoxy Coated Steel Reinforcement Bar	.....	2.68	
		<i>For Up To 100, Add</i>		2.01	
		<i>For >100 To 200, Add</i>		1.06	
		<i>For >200 To 500, Add</i>		0.42	
03 21 16 00-0066	LF	#3, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	.....	0.77	
		<i>For Up To 100, Add</i>		0.55	
		<i>For >100 To 200, Add</i>		0.30	
		<i>For >200 To 500, Add</i>		0.12	
03 21 16 00-0067	LF	#4, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	.....	1.32	
		<i>For Up To 100, Add</i>		0.97	
		<i>For >100 To 200, Add</i>		0.51	
		<i>For >200 To 500, Add</i>		0.21	
03 21 16 00-0068	LF	#5, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	.....	1.99	
		<i>For Up To 100, Add</i>		1.48	
		<i>For >100 To 200, Add</i>		0.78	
		<i>For >200 To 500, Add</i>		0.31	
03 21 16 00-0069	LF	#6, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	.....	2.76	
		<i>For Up To 100, Add</i>		2.09	
		<i>For >100 To 200, Add</i>		1.10	
		<i>For >200 To 500, Add</i>		0.44	
03 21 16 00-0070	LF	#7, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	.....	3.61	
		<i>For Up To 100, Add</i>		2.16	
		<i>For >100 To 200, Add</i>		1.24	
		<i>For >200 To 400, Add</i>		0.58	
03 21 16 00-0071	LF	#8, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	.....	4.53	
		<i>For Up To 100, Add</i>		2.75	
		<i>For >100 To 200, Add</i>		1.57	
		<i>For >200 To 400, Add</i>		0.75	
03 21 16 00-0072	LF	#9, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	.....	5.61	
		<i>For Up To 100, Add</i>		3.45	
		<i>For >100 To 200, Add</i>		1.96	
		<i>For >200 To 400, Add</i>		0.93	
03 21 16 00-0073	LF	#10, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	.....	6.89	
		<i>For Up To 100, Add</i>		3.48	
		<i>For >100 To 200, Add</i>		1.85	
		<i>For >200 To 300, Add</i>		0.92	
03 21 16 00-0074	LF	#11, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	.....	8.27	
		<i>For Up To 100, Add</i>		4.22	
		<i>For >100 To 200, Add</i>		2.24	
		<i>For >200 To 300, Add</i>		1.12	
03 21 16 00-0075	LF	#14, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	.....	11.55	
		<i>For Up To 100, Add</i>		5.97	
		<i>For >100 To 200, Add</i>		3.15	
		<i>For >200 To 300, Add</i>		1.57	
03 21 16 00-0076	LF	#18, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	.....	19.90	
		<i>For Up To 100, Add</i>		10.43	
		<i>For >100 To 200, Add</i>		5.47	
		<i>For >200 To 300, Add</i>		2.73	
03 21 16 00-0077	LF	#6, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar	.....	2.84	
		<i>For Up To 100, Add</i>		2.17	
		<i>For >100 To 200, Add</i>		1.14	
		<i>For >200 To 500, Add</i>		0.46	
03 21 16 00-0078	LF	#7, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar	.....	3.72	
		<i>For Up To 100, Add</i>		2.24	
		<i>For >100 To 200, Add</i>		1.28	
		<i>For >200 To 400, Add</i>		0.61	
03 21 16 00-0079	LF	#8, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar	.....	4.67	
		<i>For Up To 100, Add</i>		2.86	
		<i>For >100 To 200, Add</i>		1.63	
		<i>For >200 To 400, Add</i>		0.77	
03 21 16 00-0080	LF	#9, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar	.....	5.78	
		<i>For Up To 100, Add</i>		3.58	
		<i>For >100 To 200, Add</i>		2.03	
		<i>For >200 To 400, Add</i>		0.97	
03 21 16 00-0081	LF	#10, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar	.....	7.12	
		<i>For Up To 100, Add</i>		3.62	
		<i>For >100 To 200, Add</i>		1.92	
		<i>For >200 To 300, Add</i>		0.96	



Concrete	03	03
Concrete Reinforcing	03 20	
Reinforcement Bars	03 21	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 16 00-0082 LF #11, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar.....	8.54	
For Up To 100, Add	4.39	
For >100 To 200, Add	2.32	
For >200 To 300, Add	1.16	
03 21 16 00-0083 LF #14, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar.....	11.95	
For Up To 100, Add	6.21	
For >100 To 200, Add	3.27	
For >200 To 300, Add	1.63	
03 21 16 00-0084 LF #18, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar.....	20.60	
For Up To 100, Add	10.85	
For >100 To 200, Add	5.68	
For >200 To 300, Add	2.84	
03 21 16 00-0085 Slab On Grade, Epoxy Coated Steel Reinforcement Bar (03 21 16)		
Note: ASTM A-775 Epoxy Coated Steel.		
03 21 16 00-0086 LF #3, Grade 40, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	0.72	
For Up To 100, Add	0.52	
For >100 To 200, Add	0.28	
For >200 To 500, Add	0.11	
03 21 16 00-0087 LF #4, Grade 40, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	1.22	
For Up To 100, Add	0.89	
For >100 To 200, Add	0.47	
For >200 To 500, Add	0.19	
03 21 16 00-0088 LF #5, Grade 40, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	1.84	
For Up To 100, Add	1.37	
For >100 To 200, Add	0.72	
For >200 To 500, Add	0.29	
03 21 16 00-0089 LF #6, Grade 40, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	2.55	
For Up To 100, Add	1.93	
For >100 To 200, Add	1.02	
For >200 To 500, Add	0.41	
03 21 16 00-0090 LF #3, Grade 50, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	0.73	
For Up To 100, Add	0.53	
For >100 To 200, Add	0.28	
For >200 To 500, Add	0.11	
03 21 16 00-0091 LF #4, Grade 50, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	1.25	
For Up To 100, Add	0.92	
For >100 To 200, Add	0.49	
For >200 To 500, Add	0.20	
03 21 16 00-0092 LF #5, Grade 50, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	1.88	
For Up To 100, Add	1.41	
For >100 To 200, Add	0.74	
For >200 To 500, Add	0.30	
03 21 16 00-0093 LF #6, Grade 50, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	2.60	
For Up To 100, Add	1.98	
For >100 To 200, Add	1.04	
For >200 To 500, Add	0.42	
03 21 16 00-0094 LF #3, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	0.75	
For Up To 100, Add	0.55	
For >100 To 200, Add	0.29	
For >200 To 500, Add	0.12	
03 21 16 00-0095 LF #4, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	1.28	
For Up To 100, Add	0.95	
For >100 To 200, Add	0.50	
For >200 To 500, Add	0.20	
03 21 16 00-0096 LF #5, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	1.93	
For Up To 100, Add	1.46	
For >100 To 200, Add	0.77	
For >200 To 500, Add	0.31	
03 21 16 00-0097 LF #6, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	2.68	
For Up To 100, Add	2.06	
For >100 To 200, Add	1.08	
For >200 To 500, Add	0.43	
03 21 16 00-0098 LF #7, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	3.53	
For Up To 100, Add	2.13	
For >100 To 200, Add	1.22	
For >200 To 400, Add	0.58	
03 21 16 00-0099 LF #8, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	4.44	
For Up To 100, Add	2.72	
For >100 To 200, Add	1.55	
For >200 To 400, Add	0.74	
03 21 16 00-0100 LF #9, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	5.50	
For Up To 100, Add	3.41	
For >100 To 200, Add	1.93	
For >200 To 400, Add	0.92	
03 21 16 00-0101 LF #10, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	6.76	
For Up To 100, Add	3.44	
For >100 To 200, Add	1.82	
For >200 To 300, Add	0.91	
03 21 16 00-0102 LF #11, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	8.13	
For Up To 100, Add	4.18	
For >100 To 200, Add	2.21	
For >200 To 300, Add	1.10	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 16 00-0103	LF		#14, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	11.35	
			For Up To 100, Add	5.91	
			For >100 To 200, Add	3.11	
			For >200 To 300, Add	1.55	
03 21 16 00-0104	LF		#18, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	19.61	
			For Up To 100, Add	10.34	
			For >100 To 200, Add	5.41	
			For >200 To 300, Add	2.70	
03 21 16 00-0105	LF		#6, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	2.76	
			For Up To 100, Add	2.14	
			For >100 To 200, Add	1.12	
			For >200 To 500, Add	0.45	
03 21 16 00-0106	LF		#7, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	3.64	
			For Up To 100, Add	2.21	
			For >100 To 200, Add	1.26	
			For >200 To 400, Add	0.60	
03 21 16 00-0107	LF		#8, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	4.58	
			For Up To 100, Add	2.83	
			For >100 To 200, Add	1.60	
			For >200 To 400, Add	0.76	
03 21 16 00-0108	LF		#9, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	5.67	
			For Up To 100, Add	3.54	
			For >100 To 200, Add	2.00	
			For >200 To 400, Add	0.96	
03 21 16 00-0109	LF		#10, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	6.99	
			For Up To 100, Add	3.58	
			For >100 To 200, Add	1.89	
			For >200 To 300, Add	0.95	
03 21 16 00-0110	LF		#11, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	8.40	
			For Up To 100, Add	4.34	
			For >100 To 200, Add	2.29	
			For >200 To 300, Add	1.14	
03 21 16 00-0111	LF		#14, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	11.75	
			For Up To 100, Add	6.15	
			For >100 To 200, Add	3.23	
			For >200 To 300, Add	1.61	
03 21 16 00-0112	LF		#18, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	20.31	
			For Up To 100, Add	10.76	
			For >100 To 200, Add	5.62	
			For >200 To 300, Add	2.81	
03 21 16 00-0113			Elevated Slabs, Epoxy Coated Steel Reinforcement Bar <small>(03 21 16)</small>		
			Note: ASTM A-775 Epoxy Coated Steel.		
03 21 16 00-0114	LF		#3, Grade 40, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	0.67	
			For Up To 100, Add	0.50	
			For >100 To 200, Add	0.26	
			For >200 To 500, Add	0.11	
03 21 16 00-0115	LF		#4, Grade 40, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	1.15	
			For Up To 100, Add	0.86	
			For >100 To 200, Add	0.46	
			For >200 To 500, Add	0.18	
03 21 16 00-0116	LF		#5, Grade 40, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	1.74	
			For Up To 100, Add	1.33	
			For >100 To 200, Add	0.70	
			For >200 To 500, Add	0.28	
03 21 16 00-0117	LF		#6, Grade 40, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	2.42	
			For Up To 100, Add	1.87	
			For >100 To 200, Add	0.98	
			For >200 To 500, Add	0.39	
03 21 16 00-0118	LF		#3, Grade 50, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	0.68	
			For Up To 100, Add	0.51	
			For >100 To 200, Add	0.27	
			For >200 To 500, Add	0.11	
03 21 16 00-0119	LF		#4, Grade 50, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	1.18	
			For Up To 100, Add	0.89	
			For >100 To 200, Add	0.47	
			For >200 To 500, Add	0.19	
03 21 16 00-0120	LF		#5, Grade 50, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	1.78	
			For Up To 100, Add	1.37	
			For >100 To 200, Add	0.72	
			For >200 To 500, Add	0.29	
03 21 16 00-0121	LF		#6, Grade 50, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	2.47	
			For Up To 100, Add	1.92	
			For >100 To 200, Add	1.01	
			For >200 To 500, Add	0.40	
03 21 16 00-0122	LF		#3, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	0.70	
			For Up To 100, Add	0.53	
			For >100 To 200, Add	0.28	
			For >200 To 500, Add	0.11	
03 21 16 00-0123	LF		#4, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	1.21	
			For Up To 100, Add	0.92	
			For >100 To 200, Add	0.49	
			For >200 To 500, Add	0.19	



Concrete	03	03
Concrete Reinforcing	03 20	
Reinforcement Bars	03 21	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 16 00-0124 LF #5, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	1.83	
For Up To 100, Add	1.42	
For >100 To 200, Add	0.74	
For >200 To 500, Add	0.30	
03 21 16 00-0125 LF #6, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	2.55	
For Up To 100, Add	2.00	
For >100 To 200, Add	1.05	
For >200 To 500, Add	0.42	
03 21 16 00-0126 LF #7, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	3.37	
For Up To 100, Add	2.07	
For >100 To 200, Add	1.18	
For >200 To 400, Add	0.56	
03 21 16 00-0127 LF #8, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	4.24	
For Up To 100, Add	2.65	
For >100 To 200, Add	1.50	
For >200 To 400, Add	0.72	
03 21 16 00-0128 LF #9, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	5.28	
For Up To 100, Add	3.34	
For >100 To 200, Add	1.88	
For >200 To 400, Add	0.90	
03 21 16 00-0129 LF #10, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	6.51	
For Up To 100, Add	3.36	
For >100 To 200, Add	1.77	
For >200 To 300, Add	0.89	
03 21 16 00-0130 LF #11, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	7.84	
For Up To 100, Add	4.10	
For >100 To 200, Add	2.15	
For >200 To 300, Add	1.07	
03 21 16 00-0131 LF #14, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	10.98	
For Up To 100, Add	5.80	
For >100 To 200, Add	3.03	
For >200 To 300, Add	1.52	
03 21 16 00-0132 LF #18, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	19.02	
For Up To 100, Add	10.17	
For >100 To 200, Add	5.29	
For >200 To 300, Add	2.65	
03 21 16 00-0133 LF #6, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	2.63	
For Up To 100, Add	2.08	
For >100 To 200, Add	1.09	
For >200 To 500, Add	0.44	
03 21 16 00-0134 LF #7, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	3.48	
For Up To 100, Add	2.15	
For >100 To 200, Add	1.22	
For >200 To 400, Add	0.58	
03 21 16 00-0135 LF #8, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	4.38	
For Up To 100, Add	2.76	
For >100 To 200, Add	1.55	
For >200 To 400, Add	0.74	
03 21 16 00-0136 LF #9, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	5.45	
For Up To 100, Add	3.46	
For >100 To 200, Add	1.95	
For >200 To 400, Add	0.93	
03 21 16 00-0137 LF #10, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	6.74	
For Up To 100, Add	3.50	
For >100 To 200, Add	1.84	
For >200 To 300, Add	0.92	
03 21 16 00-0138 LF #11, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	8.11	
For Up To 100, Add	4.26	
For >100 To 200, Add	2.23	
For >200 To 300, Add	1.12	
03 21 16 00-0139 LF #14, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	11.38	
For Up To 100, Add	6.04	
For >100 To 200, Add	3.15	
For >200 To 300, Add	1.58	
03 21 16 00-0140 LF #18, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	19.72	
For Up To 100, Add	10.59	
For >100 To 200, Add	5.50	
For >200 To 300, Add	2.75	
03 21 16 00-0141 Walls, Epoxy Coated Steel Reinforcement Bar <small>(03 21 16)</small>		
Note: ASTM A-775 Epoxy Coated Steel.		
03 21 16 00-0142 LF #3, Grade 40, Walls, Epoxy Coated Steel Reinforcement Bar.....	0.65	
For Up To 100, Add	0.49	
For >100 To 200, Add	0.26	
For >200 To 500, Add	0.10	
03 21 16 00-0143 LF #4, Grade 40, Walls, Epoxy Coated Steel Reinforcement Bar.....	1.11	
For Up To 100, Add	0.85	
For >100 To 200, Add	0.45	
For >200 To 500, Add	0.18	
03 21 16 00-0144 LF #5, Grade 40, Walls, Epoxy Coated Steel Reinforcement Bar.....	1.69	
For Up To 100, Add	1.31	
For >100 To 200, Add	0.69	
For >200 To 500, Add	0.27	

03	Concrete
03 20	Concrete Reinforcing
03 21	Reinforcement Bars



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 16 00-0145	LF	#6, Grade 40, Walls, Epoxy Coated Steel Reinforcement Bar	.....	2.36	
		<i>For Up To 100, Add</i>		1.85	
		<i>For >100 To 200, Add</i>		0.97	
		<i>For >200 To 500, Add</i>		0.39	
03 21 16 00-0146	LF	#3, Grade 50, Walls, Epoxy Coated Steel Reinforcement Bar	.....	0.66	
		<i>For Up To 100, Add</i>		0.50	
		<i>For >100 To 200, Add</i>		0.26	
		<i>For >200 To 500, Add</i>		0.11	
03 21 16 00-0147	LF	#4, Grade 50, Walls, Epoxy Coated Steel Reinforcement Bar	.....	1.14	
		<i>For Up To 100, Add</i>		0.88	
		<i>For >100 To 200, Add</i>		0.46	
		<i>For >200 To 500, Add</i>		0.18	
03 21 16 00-0148	LF	#5, Grade 50, Walls, Epoxy Coated Steel Reinforcement Bar	.....	1.73	
		<i>For Up To 100, Add</i>		1.35	
		<i>For >100 To 200, Add</i>		0.71	
		<i>For >200 To 500, Add</i>		0.28	
03 21 16 00-0149	LF	#6, Grade 50, Walls, Epoxy Coated Steel Reinforcement Bar	.....	2.41	
		<i>For Up To 100, Add</i>		1.90	
		<i>For >100 To 200, Add</i>		0.99	
		<i>For >200 To 500, Add</i>		0.40	
03 21 16 00-0150	LF	#3, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar	.....	0.68	
		<i>For Up To 100, Add</i>		0.52	
		<i>For >100 To 200, Add</i>		0.27	
		<i>For >200 To 500, Add</i>		0.11	
03 21 16 00-0151	LF	#4, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar	.....	1.17	
		<i>For Up To 100, Add</i>		0.91	
		<i>For >100 To 200, Add</i>		0.48	
		<i>For >200 To 500, Add</i>		0.19	
03 21 16 00-0152	LF	#5, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar	.....	1.78	
		<i>For Up To 100, Add</i>		1.40	
		<i>For >100 To 200, Add</i>		0.73	
		<i>For >200 To 500, Add</i>		0.29	
03 21 16 00-0153	LF	#6, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar	.....	2.49	
		<i>For Up To 100, Add</i>		1.98	
		<i>For >100 To 200, Add</i>		1.03	
		<i>For >200 To 500, Add</i>		0.41	
03 21 16 00-0154	LF	#7, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar	.....	3.27	
		<i>For Up To 100, Add</i>		2.04	
		<i>For >100 To 200, Add</i>		1.15	
		<i>For >200 To 400, Add</i>		0.55	
03 21 16 00-0155	LF	#8, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar	.....	4.15	
		<i>For Up To 100, Add</i>		2.62	
		<i>For >100 To 200, Add</i>		1.48	
		<i>For >200 To 400, Add</i>		0.71	
03 21 16 00-0156	LF	#9, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar	.....	5.17	
		<i>For Up To 100, Add</i>		3.30	
		<i>For >100 To 200, Add</i>		1.85	
		<i>For >200 To 400, Add</i>		0.89	
03 21 16 00-0157	LF	#10, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar	.....	6.38	
		<i>For Up To 100, Add</i>		3.32	
		<i>For >100 To 200, Add</i>		1.75	
		<i>For >200 To 300, Add</i>		0.87	
03 21 16 00-0158	LF	#11, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar	.....	7.70	
		<i>For Up To 100, Add</i>		4.05	
		<i>For >100 To 200, Add</i>		2.12	
		<i>For >200 To 300, Add</i>		1.06	
03 21 16 00-0159	LF	#14, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar	.....	10.80	
		<i>For Up To 100, Add</i>		5.75	
		<i>For >100 To 200, Add</i>		3.00	
		<i>For >200 To 300, Add</i>		1.50	
03 21 16 00-0160	LF	#18, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar	.....	18.73	
		<i>For Up To 100, Add</i>		10.08	
		<i>For >100 To 200, Add</i>		5.23	
		<i>For >200 To 300, Add</i>		2.62	
03 21 16 00-0161	LF	#6, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar	.....	2.57	
		<i>For Up To 100, Add</i>		2.06	
		<i>For >100 To 200, Add</i>		1.07	
		<i>For >200 To 500, Add</i>		0.43	
03 21 16 00-0162	LF	#7, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar	.....	3.38	
		<i>For Up To 100, Add</i>		2.12	
		<i>For >100 To 200, Add</i>		1.20	
		<i>For >200 To 400, Add</i>		0.57	
03 21 16 00-0163	LF	#8, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar	.....	4.29	
		<i>For Up To 100, Add</i>		2.73	
		<i>For >100 To 200, Add</i>		1.53	
		<i>For >200 To 400, Add</i>		0.74	
03 21 16 00-0164	LF	#9, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar	.....	5.34	
		<i>For Up To 100, Add</i>		3.43	
		<i>For >100 To 200, Add</i>		1.92	
		<i>For >200 To 400, Add</i>		0.92	
03 21 16 00-0165	LF	#10, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar	.....	6.61	
		<i>For Up To 100, Add</i>		3.46	
		<i>For >100 To 200, Add</i>		1.82	
		<i>For >200 To 300, Add</i>		0.91	



Concrete	03	CS
Concrete Reinforcing	03 20	
Reinforcement Bars	03 21	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 16 00-0166 LF #11, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar.....	7.97	
For Up To 100, Add	4.22	
For >100 To 200, Add	2.20	
For >200 To 300, Add	1.10	
03 21 16 00-0167 LF #14, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar.....	11.20	
For Up To 100, Add	5.99	
For >100 To 200, Add	3.12	
For >200 To 300, Add	1.56	
03 21 16 00-0168 LF #18, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar.....	19.43	
For Up To 100, Add	10.50	
For >100 To 200, Add	5.44	
For >200 To 300, Add	2.72	
03 21 16 00-0169 Epoxy Coated Deformed Straight Dowels (03 21 16)		
Note: Excludes drilling.		
03 21 16 00-0170 EA 3/8" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel.....	5.13	
For Up To 12" Length, Deduct	-0.48	
For >12" To <24" Length, Deduct	-0.24	
03 21 16 00-0171 EA 1/2" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel.....	6.01	
For Up To 12" Length, Deduct	-0.72	
For >12" To <24" Length, Deduct	-0.36	
03 21 16 00-0172 EA 5/8" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel.....	7.40	
For Up To 12" Length, Deduct	-1.08	
For >12" To <24" Length, Deduct	-0.54	
03 21 16 00-0173 EA 3/4" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel.....	9.18	
For Up To 12" Length, Deduct	-1.44	
For >12" To <24" Length, Deduct	-0.72	
03 21 16 00-0174 EA 7/8" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel.....	10.98	
For Up To 12" Length, Deduct	-1.95	
For >12" To <24" Length, Deduct	-0.98	
03 21 16 00-0175 EA 1" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel.....	12.74	
For Up To 12" Length, Deduct	-2.40	
For >12" To <24" Length, Deduct	-1.20	
03 21 16 00-0176 EA 1-1/8" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel.....	15.02	
For Up To 12" Length, Deduct	-2.91	
For >12" To <24" Length, Deduct	-1.45	
03 21 16 00-0177 EA 1-1/4" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel.....	18.09	
For Up To 12" Length, Deduct	-3.52	
For >12" To <24" Length, Deduct	-1.76	

03 22 Fabric and Grid Reinforcing (03 20)

03 22 11 Plain Steel Welded Wire Fabric Reinforcing (03 22)

Note: Includes cutting, tie wire, tying, overlap, bar chairs and all non-mechanical splicing.

03 22 11 00-0001 Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (03 22 11)

Note: Includes bar chairs. Under 5 tons. ASTM A-185

03 22 11 00-0002 SF 6" x 6" x #10, 21 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W1.4 x W1.4).....	0.98	
For >5 Ton, Deduct	-0.14	
03 22 11 00-0003 SF 6" x 6" x #8, 30 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.1 x W2.1).....	1.13	
For >5 Ton, Deduct	-0.16	
03 22 11 00-0004 SF 6" x 6" x #6, 42 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.9 x W2.9).....	1.31	
For >5 Ton, Deduct	-0.18	
03 22 11 00-0005 SF 6" x 6" x #4, 58 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W4.0 x W4.0).....	1.58	
For >5 Ton, Deduct	-0.21	
03 22 11 00-0006 SF 4" x 4" x #10, 31 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W1.4 x W1.4).....	1.20	
For >5 Ton, Deduct	-0.17	
03 22 11 00-0007 SF 4" x 4" x #8, 44 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.1 x W2.1).....	1.37	
For >5 Ton, Deduct	-0.19	
03 22 11 00-0008 SF 4" x 4" x #6, 62 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.9 x W2.9).....	1.80	
For >5 Ton, Deduct	-0.24	
03 22 11 00-0009 SF 4" x 4" x #4, 85 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W4.0 x W4.0).....	2.13	
For >5 Ton, Deduct	-0.27	
03 22 11 00-0010 SF 2" x 2" x #12, 37 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W0.9 x W0.9).....	2.04	
For >5 Ton, Deduct	-0.25	

03 22 13 Galvanized Welded Wire Fabric Reinforcing (03 22)

03 22 13 00-0001 Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (03 22 13)

Note: Includes bar chairs. Under 5 tons.

03 22 13 00-0002 SF 6" x 6" x #10, 21 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W1.4 x W1.4).....	1.12	
For >5 Ton, Deduct	-0.16	
03 22 13 00-0003 SF 6" x 6" x #8, 29 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.1 x W2.1).....	1.30	
For >5 Ton, Deduct	-0.18	
03 22 13 00-0004 SF 6" x 6" x #6, 42 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.9 x W2.9).....	1.53	
For >5 Ton, Deduct	-0.21	
03 22 13 00-0005 SF 6" x 6" x #4, 58 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W4.0 x W4.0).....	1.90	
For >5 Ton, Deduct	-0.25	
03 22 13 00-0006 SF 4" x 4" x #10, 31 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W1.4 x W1.4).....	1.40	
For >5 Ton, Deduct	-0.19	
03 22 13 00-0007 SF 4" x 4" x #8, 43 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.1 x W2.1).....	1.62	
For >5 Ton, Deduct	-0.21	

03	Concrete
03 20	Concrete Reinforcing
03 22	Fabric and Grid Reinforcing



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 22 13 00-0008	SF		4" x 4" x #6, 62 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.9 x W2.9) .....2.20 <i>For >5 Ton, Deduct</i>		-0.28
03 22 13 00-0009	SF		4" x 4" x #4, 85 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W4.0 x W4.0) .....2.63 <i>For >5 Ton, Deduct</i>		-0.32
03 22 13 00-0010			Galvanized Welded Wire Reinforcement Wrap Placed In Beams And Columns (03 22 13) Note: Includes bar chairs. Under 5 tons.		
03 22 13 00-0011	SF		2" x 2" x #14, 21 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Wrap Placed In Beams And Columns (W0.5 x W0.5).....3.71 <i>For >5 Ton, Deduct</i>		-0.56
03 22 16			Epoxy-Coated Welded Wire Fabric Reinforcing (03 22)		
03 22 16 00-0001			Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (03 22 16) Note: Includes bar chairs. Under 5 tons.		
03 22 16 00-0002	SF		6" x 6" x #10, 21 LB/CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W1.4 x W1.4).....1.11 <i>For >5 Ton, Deduct</i>		-0.15
03 22 16 00-0003	SF		6" x 6" x #8, 29 LB/CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.1 x W2.1).....1.28 <i>For >5 Ton, Deduct</i>		-0.18
03 22 16 00-0004	SF		6" x 6" x #6, 42 LB/CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.9 x W2.9).....1.51 <i>For >5 Ton, Deduct</i>		-0.20
03 22 16 00-0005	SF		6" x 6" x #4, 58 LB/CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W4.0 x W4.0).....1.86 <i>For >5 Ton, Deduct</i>		-0.24
03 22 16 00-0006	SF		4" x 4" x #10, 31 LB/CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W1.4 x W1.4).....1.37 <i>For >5 Ton, Deduct</i>		-0.19
03 22 16 00-0007	SF		4" x 4" x #8, 43 LB/CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.1 x W2.1).....1.59 <i>For >5 Ton, Deduct</i>		-0.21
03 22 16 00-0008	SF		4" x 4" x #6, 62 LB/CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.9 x W2.9).....2.15 <i>For >5 Ton, Deduct</i>		-0.27
03 22 16 00-0009	SF		4" x 4" x #4, 85 LB/CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W4.0 x W4.0).....2.56 <i>For >5 Ton, Deduct</i>		-0.32
03 22 23			Stainless Steel Welded Wire Fabric Reinforcing (03 22) Note: Includes cutting, tie wire, tying, overlap, bar chairs and all non-mechanical splicing.		
03 22 23 00-0001			Stainless Steel Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (03 22 23)		
03 22 23 00-0002	SF		6" x 6" x #10, Stainless Steel Welded Wire Fabric Reinforcing Placed In Floors Or Slabs .....2.06		
03 22 23 00-0003	SF		4" x 4" x #10, Stainless Steel Welded Wire Fabric Reinforcing Placed In Floors Or Slabs .....2.69		
03 30			Cast-In-Place Concrete (03) See CSI section 01 74 19 00-0039 for hauling over 15 miles.		
03 30 53			Miscellaneous Cast-in-Place Concrete (03 30)		
03 30 53 00-0001			Place Concrete Duct Bank (03 30 53)		
03 30 53 00-0002	CY		Direct Chute, Place 3,000 PSI Concrete Duct Bank .....265.37 <i>For 2,000 PSI Concrete, Deduct</i>		-12.53
			<i>For 2,500 PSI Concrete, Deduct</i>		-6.26
			<i>For 3,500 PSI Concrete, Add</i>		11.60
			<i>For 3,750 PSI Concrete, Add</i>		15.78
			<i>For 4,000 PSI Concrete, Add</i>		19.95
			<i>For 4,500 PSI Concrete, Add</i>		23.20
			<i>For 5,000 PSI Concrete, Add</i>		26.45
			<i>For 6,000 PSI Concrete, Add</i>		62.64
			<i>For White Cement Concrete, Add</i>		27.84
			<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>		30.16
			<i>For High Early Strength, Type 3 ASTM C150, Add</i>		23.20
			<i>For Lightweight Aggregate, ASTM C330, Add</i>		81.20
			<i>For Up To 20, Add</i>		13.35
			<i>For >20 To 50, Add</i>		5.01
			<i>For >100 To 200, Deduct</i>		-5.31
			<i>For >200 To 400, Deduct</i>		-10.61
			<i>For >400, Deduct</i>		-15.92
03 30 53 00-0003			Place Concrete Thrust Blocks And Backfill (03 30 53)		



Concrete	03	03
Cast-In-Place Concrete	03 30	
Miscellaneous Cast-in-Place Concrete	03 30 53	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 30 53 00-0004 CY Direct Chute, Place 3,000 PSI Concrete Thrust Blocks	307.37	
For 2,000 PSI Concrete, Deduct	-12.53	
For 2,500 PSI Concrete, Deduct	-6.26	
For 3,500 PSI Concrete, Add	11.60	
For 3,750 PSI Concrete, Add	15.78	
For 4,000 PSI Concrete, Add	19.95	
For 4,500 PSI Concrete, Add	23.20	
For 5,000 PSI Concrete, Add	26.45	
For 6,000 PSI Concrete, Add	62.64	
For White Cement Concrete, Add	27.84	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	30.16	
For High Early Strength, Type 3 ASTM C150, Add	23.20	
For Lightweight Aggregate, ASTM C330, Add	81.20	
For Up To 20, Add	30.15	
For >20 To 50, Add	11.31	
For >100 To 200, Deduct	-6.15	
For >200 To 400, Deduct	-12.29	
For >400, Deduct	-18.44	
03 30 53 00-0005 Place Concrete Slurry (03 30 53)		
03 30 53 00-0006 CY Direct Chute, Place Two Sack Cement, Concrete Slurry	242.90	
Note: Two 94# sack cement per CY.		
03 30 53 00-0007 CY Concrete Pump, Place Two Sack Cement, Concrete Slurry	236.25	
Note: Two 94# sack cement per CY. Excludes pumping equipment.		
03 30 53 00-0008 Hand Mix And Place Concrete (03 30 53)		
03 30 53 00-0009 CF Hand Mix And Place 3,000 PSI Concrete	22.43	
Note: For use where conventional equipment access is limited or when directed by the owner. Includes local aggregate, sand, bagged cement (Type I) and water.		
For Up To 25 CF, Add	2.74	
For 2,000 PSI Concrete, Deduct	-0.54	
For 2,500 PSI Concrete, Deduct	-0.27	
For 3,500 PSI Concrete, Add	0.50	
For 3,750 PSI Concrete, Add	0.67	
For 4,000 PSI Concrete, Add	0.85	
For 4,500 PSI Concrete, Add	0.99	
For 5,000 PSI Concrete, Add	1.13	
For 6,000 PSI Concrete, Add	2.68	
For White Cement Concrete, Add	1.19	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	1.29	
For High Early Strength, Type 3 ASTM C150, Add	0.99	
For Lightweight Aggregate, ASTM C330, Add	3.47	
03 31 Structural Concrete (03 30)		
03 31 13 Heavyweight Structural Concrete (03 31)		
Note: Includes delivery, fuel charge and placement of material. See CSI section 03 05 13 00-0001 for admixtures, 03 11 00 00-0000 for forming, 03 20 00 00-0000 for reinforcing, 03 31 13 00-0086 for small concrete purchases (short load), 03 35 00 00-0000 for finishing, 03 39 00 00-0000 for curing.		
03 31 13 00-0001 Concrete Slab Assemblies (03 31 13)		
03 31 13 00-0002 3,000 PSI Slab On Grade Concrete Slabs Assemblies (03 31 13 00-0001)		
Note: Includes forms, welded wire reinforcement (where necessary), #3 to #6 reinforcing rods at 12" on center each way with chairs (where necessary), vapor barrier, concrete, curing, latex or hot asphalt expansion joints, control joints, screed, float, and finish for pedestrian slabs. Excludes excavation, base, earthwork, and expansion joints along existing slab. See CSI section 03 05 13 00-0001 for color additive alternative, 03 37 16 00-0001 for concrete pumping equipment.		
03 31 13 00-0003 SF 4" 3,000 PSI Slab On Grade Concrete Slab Assembly	9.44	
For 2,000 PSI Concrete, Deduct	-0.30	
For 2,500 PSI Concrete, Deduct	-0.15	
For 3,500 PSI Concrete, Add	0.11	
For 4,000 PSI Concrete, Add	0.35	
For 4,500 PSI Concrete, Add	0.44	
For 5,000 PSI Concrete, Add	0.51	
For Reinforcing Rods Are At 18" On Center, Deduct	-0.40	
For Reinforcing Rods Are At 24" On Center, Deduct	-0.59	
For Up To 500, Add	3.41	
For >500 To 1,000, Add	2.37	
For >1,000 To 2,000, Add	1.33	
For >2,000 To 5,000, Add	0.66	
For >10,000 To 20,000, Deduct	-0.28	
For >20,000 To 35,000, Deduct	-0.52	
For >35,000 To 50,000, Deduct	-0.75	
For >50,000 To 70,000, Deduct	-0.99	
For >70,000, Deduct	-1.23	

03	Concrete
03 30	Cast-In-Place Concrete
03 31	Structural Concrete



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0004	SF		5" 3,000 PSI Slab On Grade Concrete Slab Assembly.....	10.39	
			For 2,000 PSI Concrete, Deduct	-0.35	
			For 2,500 PSI Concrete, Deduct	-0.17	
			For 3,500 PSI Concrete, Add	0.12	
			For 4,000 PSI Concrete, Add	0.40	
			For 4,500 PSI Concrete, Add	0.51	
			For 5,000 PSI Concrete, Add	0.58	
			For Reinforcing Rods Are At 18" On Center, Deduct	-0.40	
			For Reinforcing Rods Are At 24" On Center, Deduct	-0.59	
			For Up To 500, Add	3.67	
			For >500 To 1,000, Add	2.56	
			For >1,000 To 2,000, Add	1.44	
			For >2,000 To 5,000, Add	0.72	
			For >10,000 To 20,000, Deduct	-0.32	
			For >20,000 To 35,000, Deduct	-0.58	
			For >35,000 To 50,000, Deduct	-0.84	
			For >50,000 To 70,000, Deduct	-1.10	
			For >70,000, Deduct	-1.36	
03 31 13 00-0005	SF		6" 3,000 PSI Slab On Grade Concrete Slab Assembly.....	11.73	
			For 2,000 PSI Concrete, Deduct	-0.40	
			For 2,500 PSI Concrete, Deduct	-0.20	
			For 3,500 PSI Concrete, Add	0.14	
			For 4,000 PSI Concrete, Add	0.47	
			For 4,500 PSI Concrete, Add	0.59	
			For 5,000 PSI Concrete, Add	0.68	
			For Reinforcing Rods Are At 18" On Center, Deduct	-0.40	
			For Reinforcing Rods Are At 24" On Center, Deduct	-0.59	
			For Up To 500, Add	4.05	
			For >500 To 1,000, Add	2.82	
			For >1,000 To 2,000, Add	1.60	
			For >2,000 To 5,000, Add	0.80	
			For >10,000 To 20,000, Deduct	-0.37	
			For >20,000 To 35,000, Deduct	-0.67	
			For >35,000 To 50,000, Deduct	-0.96	
			For >50,000 To 70,000, Deduct	-1.25	
			For >70,000, Deduct	-1.55	
03 31 13 00-0006	SF		7" 3,000 PSI Slab On Grade Concrete Slab Assembly.....	13.03	
			For 2,000 PSI Concrete, Deduct	-0.46	
			For 2,500 PSI Concrete, Deduct	-0.23	
			For 3,500 PSI Concrete, Add	0.16	
			For 4,000 PSI Concrete, Add	0.54	
			For 4,500 PSI Concrete, Add	0.68	
			For 5,000 PSI Concrete, Add	0.78	
			For Reinforcing Rods Are At 18" On Center, Deduct	-0.40	
			For Reinforcing Rods Are At 24" On Center, Deduct	-0.59	
			For Up To 500, Add	4.38	
			For >500 To 1,000, Add	3.06	
			For >1,000 To 2,000, Add	1.75	
			For >2,000 To 5,000, Add	0.87	
			For >10,000 To 20,000, Deduct	-0.43	
			For >20,000 To 35,000, Deduct	-0.76	
			For >35,000 To 50,000, Deduct	-1.08	
			For >50,000 To 70,000, Deduct	-1.41	
			For >70,000, Deduct	-1.73	
03 31 13 00-0007	SF		8" 3,000 PSI Slab On Grade Concrete Slab Assembly.....	14.13	
			For 2,000 PSI Concrete, Deduct	-0.51	
			For 2,500 PSI Concrete, Deduct	-0.26	
			For 3,500 PSI Concrete, Add	0.18	
			For 4,000 PSI Concrete, Add	0.60	
			For 4,500 PSI Concrete, Add	0.75	
			For 5,000 PSI Concrete, Add	0.87	
			For Reinforcing Rods Are At 18" On Center, Deduct	-0.40	
			For Reinforcing Rods Are At 24" On Center, Deduct	-0.59	
			For Up To 500, Add	4.67	
			For >500 To 1,000, Add	3.27	
			For >1,000 To 2,000, Add	1.87	
			For >2,000 To 5,000, Add	0.94	
			For >10,000 To 20,000, Deduct	-0.48	
			For >20,000 To 35,000, Deduct	-0.83	
			For >35,000 To 50,000, Deduct	-1.18	
			For >50,000 To 70,000, Deduct	-1.54	
			For >70,000, Deduct	-1.89	



Concrete	03	03
Cast-In-Place Concrete	03 30	
Structural Concrete	03 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0008 SF 10" 3,000 PSI Slab On Grade Concrete Slab Assembly.....	16.99	
For 2,000 PSI Concrete, Deduct	-0.65	
For 2,500 PSI Concrete, Deduct	-0.32	
For 3,500 PSI Concrete, Add	0.23	
For 4,000 PSI Concrete, Add	0.76	
For 4,500 PSI Concrete, Add	0.95	
For 5,000 PSI Concrete, Add	1.09	
For Reinforcing Rods Are At 18" On Center, Deduct	-0.40	
For Reinforcing Rods Are At 24" On Center, Deduct	-0.59	
For Up To 500, Add	5.38	
For >500 To 1,000, Add	3.79	
For >1,000 To 2,000, Add	2.20	
For >2,000 To 5,000, Add	1.10	
For >10,000 To 20,000, Deduct	-0.60	
For >20,000 To 35,000, Deduct	-1.03	
For >35,000 To 50,000, Deduct	-1.45	
For >50,000 To 70,000, Deduct	-1.88	
For >70,000, Deduct	-2.30	
03 31 13 00-0009 SF 12" 3,000 PSI Slab On Grade Concrete Slab Assembly.....	19.18	
For 2,000 PSI Concrete, Deduct	-0.75	
For 2,500 PSI Concrete, Deduct	-0.37	
For 3,500 PSI Concrete, Add	0.26	
For 4,000 PSI Concrete, Add	0.87	
For 4,500 PSI Concrete, Add	1.09	
For 5,000 PSI Concrete, Add	1.26	
For Reinforcing Rods Are At 18" On Center, Deduct	-0.40	
For Reinforcing Rods Are At 24" On Center, Deduct	-0.59	
For Up To 500, Add	5.96	
For >500 To 1,000, Add	4.21	
For >1,000 To 2,000, Add	2.45	
For >2,000 To 5,000, Add	1.23	
For >10,000 To 20,000, Deduct	-0.69	
For >20,000 To 35,000, Deduct	-1.17	
For >35,000 To 50,000, Deduct	-1.65	
For >50,000 To 70,000, Deduct	-2.13	
For >70,000, Deduct	-2.61	
03 31 13 00-0010 Concrete Delivery And Placement <small>(03 31 13)</small>		
Note: Includes cleaning out equipment and standard concrete placement tests. See CSI section 01 45 23 00-0000 for additional tests, 03 05 13 00-0001 for admixtures.		
03 31 13 00-0011 Place Concrete By Method Indicated <small>(03 31 13 00-0010)</small>		
Note: Tasks for concrete placement "By Concrete Pump" exclude the pumping equipment. See CSI section 03 37 16 00-0001 for concrete pumping equipment.		
03 31 13 00-0012 Place Concrete Pile Caps <small>(03 31 13 00-0011)</small>		
03 31 13 00-0013 CY Crane And Bucket, Place 3,000 PSI Concrete Pile Caps	358.65	
For 2,000 PSI Concrete, Deduct	-12.53	
For 2,500 PSI Concrete, Deduct	-6.26	
For 3,500 PSI Concrete, Add	11.60	
For 3,750 PSI Concrete, Add	15.78	
For 4,000 PSI Concrete, Add	19.95	
For 4,500 PSI Concrete, Add	23.20	
For 5,000 PSI Concrete, Add	26.45	
For 6,000 PSI Concrete, Add	62.64	
For White Cement Concrete, Add	27.84	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	30.16	
For High Early Strength, Type 3 ASTM C150, Add	23.20	
For Lightweight Aggregate, ASTM C330, Add	81.20	
For Up To 20, Add	50.66	
For >20 To 50, Add	19.00	
For >100 To 200, Deduct	-7.17	
For >200 To 400, Deduct	-14.35	
For >400, Deduct	-21.52	
03 31 13 00-0014 CY Direct Chute, Place 3,000 PSI Concrete Pile Caps	287.42	
For 2,000 PSI Concrete, Deduct	-12.53	
For 2,500 PSI Concrete, Deduct	-6.26	
For 3,500 PSI Concrete, Add	11.60	
For 3,750 PSI Concrete, Add	15.78	
For 4,000 PSI Concrete, Add	19.95	
For 4,500 PSI Concrete, Add	23.20	
For 5,000 PSI Concrete, Add	26.45	
For 6,000 PSI Concrete, Add	62.64	
For White Cement Concrete, Add	27.84	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	30.16	
For High Early Strength, Type 3 ASTM C150, Add	23.20	
For Lightweight Aggregate, ASTM C330, Add	81.20	
For Up To 20, Add	22.17	
For >20 To 50, Add	8.31	
For >100 To 200, Deduct	-5.75	
For >200 To 400, Deduct	-11.50	
For >400, Deduct	-17.25	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	03 31 13 00-0015	CY	Concrete Pump, Place 3,000 PSI Concrete Pile Caps.....	304.11	
			Note: Excludes pumping equipment.		
			For 2,000 PSI Concrete, Deduct	-13.57	
			For 2,500 PSI Concrete, Deduct	-6.79	
			For 3,500 PSI Concrete, Add	12.57	
			For 3,750 PSI Concrete, Add	17.09	
			For 4,000 PSI Concrete, Add	21.61	
			For 4,500 PSI Concrete, Add	25.13	
			For 5,000 PSI Concrete, Add	28.65	
			For 6,000 PSI Concrete, Add	67.86	
			For White Cement Concrete, Add	30.16	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	32.67	
			For High Early Strength, Type 3 ASTM C150, Add	25.13	
			For Lightweight Aggregate, ASTM C330, Add	87.97	
			For Up To 20, Add	21.11	
			For >20 To 50, Add	7.92	
			For >100 To 200, Deduct	-6.08	
			For >200 To 400, Deduct	-12.16	
			For >400, Deduct	-18.25	
	03 31 13 00-0016		Place Concrete Continuous Footings (03 31 13 00-0011)		
	03 31 13 00-0017	CY	Crane And Bucket, Place 3,000 PSI Concrete Continuous Footings.....	344.58	
			For 2,000 PSI Concrete, Deduct	-12.53	
			For 2,500 PSI Concrete, Deduct	-6.26	
			For 3,500 PSI Concrete, Add	11.60	
			For 3,750 PSI Concrete, Add	15.78	
			For 4,000 PSI Concrete, Add	19.95	
			For 4,500 PSI Concrete, Add	23.20	
			For 5,000 PSI Concrete, Add	26.45	
			For 6,000 PSI Concrete, Add	62.64	
			For White Cement Concrete, Add	27.84	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	30.16	
			For High Early Strength, Type 3 ASTM C150, Add	23.20	
			For Lightweight Aggregate, ASTM C330, Add	81.20	
			For Up To 20, Add	45.03	
			For >20 To 50, Add	16.89	
			For >100 To 200, Deduct	-6.89	
			For >200 To 400, Deduct	-13.78	
			For >400, Deduct	-20.67	
	03 31 13 00-0018	CY	Direct Chute, Place 3,000 PSI Concrete Continuous Footings.....	281.25	
			For 2,000 PSI Concrete, Deduct	-12.53	
			For 2,500 PSI Concrete, Deduct	-6.26	
			For 3,500 PSI Concrete, Add	11.60	
			For 3,750 PSI Concrete, Add	15.78	
			For 4,000 PSI Concrete, Add	19.95	
			For 4,500 PSI Concrete, Add	23.20	
			For 5,000 PSI Concrete, Add	26.45	
			For 6,000 PSI Concrete, Add	62.64	
			For White Cement Concrete, Add	27.84	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	30.16	
			For High Early Strength, Type 3 ASTM C150, Add	23.20	
			For Lightweight Aggregate, ASTM C330, Add	81.20	
			For Up To 20, Add	19.70	
			For >20 To 50, Add	7.39	
			For >100 To 200, Deduct	-5.63	
			For >200 To 400, Deduct	-11.25	
			For >400, Deduct	-16.88	
	03 31 13 00-0019	CY	Concrete Pump, Place 3,000 PSI Concrete Continuous Footings.....	298.24	
			Note: Excludes pumping equipment.		
			For 2,000 PSI Concrete, Deduct	-13.57	
			For 2,500 PSI Concrete, Deduct	-6.79	
			For 3,500 PSI Concrete, Add	12.57	
			For 3,750 PSI Concrete, Add	17.09	
			For 4,000 PSI Concrete, Add	21.61	
			For 4,500 PSI Concrete, Add	25.13	
			For 5,000 PSI Concrete, Add	28.65	
			For 6,000 PSI Concrete, Add	67.86	
			For White Cement Concrete, Add	30.16	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	32.67	
			For High Early Strength, Type 3 ASTM C150, Add	25.13	
			For Lightweight Aggregate, ASTM C330, Add	87.97	
			For Up To 20, Add	18.76	
			For >20 To 50, Add	7.04	
			For >100 To 200, Deduct	-5.96	
			For >200 To 400, Deduct	-11.93	
			For >400, Deduct	-17.89	
	03 31 13 00-0020		Place Concrete Spread Footings (03 31 13 00-0011)		



Concrete	03	03
Cast-In-Place Concrete	03 30	
Structural Concrete	03 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0021 CY Crane And Bucket, Place 3,000 PSI Concrete Spread Footings	421.97	
For 2,000 PSI Concrete, Deduct	-12.53	
For 2,500 PSI Concrete, Deduct	-6.26	
For 3,500 PSI Concrete, Add	11.60	
For 3,750 PSI Concrete, Add	15.78	
For 4,000 PSI Concrete, Add	19.95	
For 4,500 PSI Concrete, Add	23.20	
For 5,000 PSI Concrete, Add	26.45	
For 6,000 PSI Concrete, Add	62.64	
For White Cement Concrete, Add	27.84	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	30.16	
For High Early Strength, Type 3 ASTM C150, Add	23.20	
For Lightweight Aggregate, ASTM C330, Add	81.20	
For Up To 20, Add	75.99	
For >20 To 50, Add	28.50	
For >100 To 200, Deduct	-8.44	
For >200 To 400, Deduct	-16.88	
For >400, Deduct	-25.32	
03 31 13 00-0022 CY Direct Chute, Place 3,000 PSI Concrete Spread Footings	315.11	
For 2,000 PSI Concrete, Deduct	-12.53	
For 2,500 PSI Concrete, Deduct	-6.26	
For 3,500 PSI Concrete, Add	11.60	
For 3,750 PSI Concrete, Add	15.78	
For 4,000 PSI Concrete, Add	19.95	
For 4,500 PSI Concrete, Add	23.20	
For 5,000 PSI Concrete, Add	26.45	
For 6,000 PSI Concrete, Add	62.64	
For White Cement Concrete, Add	27.84	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	30.16	
For High Early Strength, Type 3 ASTM C150, Add	23.20	
For Lightweight Aggregate, ASTM C330, Add	81.20	
For Up To 20, Add	33.25	
For >20 To 50, Add	12.47	
For >100 To 200, Deduct	-6.30	
For >200 To 400, Deduct	-12.60	
For >400, Deduct	-18.91	
03 31 13 00-0023 CY Concrete Pump, Place 3,000 PSI Concrete Spread Footings	330.50	
Note: Excludes pumping equipment.		
For 2,000 PSI Concrete, Deduct	-13.57	
For 2,500 PSI Concrete, Deduct	-6.79	
For 3,500 PSI Concrete, Add	12.57	
For 3,750 PSI Concrete, Add	17.09	
For 4,000 PSI Concrete, Add	21.61	
For 4,500 PSI Concrete, Add	25.13	
For 5,000 PSI Concrete, Add	28.65	
For 6,000 PSI Concrete, Add	67.86	
For White Cement Concrete, Add	30.16	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	32.67	
For High Early Strength, Type 3 ASTM C150, Add	25.13	
For Lightweight Aggregate, ASTM C330, Add	87.97	
For Up To 20, Add	31.67	
For >20 To 50, Add	11.88	
For >100 To 200, Deduct	-6.61	
For >200 To 400, Deduct	-13.22	
For >400, Deduct	-19.83	
03 31 13 00-0024 Place Concrete Mat Foundation (03 31 13 00-0011)		
03 31 13 00-0025 CY Crane And Bucket, Place 3,000 PSI Concrete Mat Foundation	265.76	
For 2,000 PSI Concrete, Deduct	-12.53	
For 2,500 PSI Concrete, Deduct	-6.26	
For 3,500 PSI Concrete, Add	11.60	
For 3,750 PSI Concrete, Add	15.78	
For 4,000 PSI Concrete, Add	19.95	
For 4,500 PSI Concrete, Add	23.20	
For 5,000 PSI Concrete, Add	26.45	
For 6,000 PSI Concrete, Add	62.64	
For White Cement Concrete, Add	27.84	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	30.16	
For High Early Strength, Type 3 ASTM C150, Add	23.20	
For Lightweight Aggregate, ASTM C330, Add	81.20	
For Up To 20, Add	13.51	
For >20 To 50, Add	5.07	
For >100 To 200, Deduct	-5.32	
For >200 To 400, Deduct	-10.63	
For >400, Deduct	-15.95	

03 Concrete**03 30 Cast-In-Place Concrete****03 31 Structural Concrete**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0026	CY		Direct Chute, Place 3,000 PSI Concrete Mat Foundation.....	246.77	
			<i>For 2,000 PSI Concrete, Deduct</i>	-12.53	
			<i>For 2,500 PSI Concrete, Deduct</i>	-6.26	
			<i>For 3,500 PSI Concrete, Add</i>	11.60	
			<i>For 3,750 PSI Concrete, Add</i>	15.78	
			<i>For 4,000 PSI Concrete, Add</i>	19.95	
			<i>For 4,500 PSI Concrete, Add</i>	23.20	
			<i>For 5,000 PSI Concrete, Add</i>	26.45	
			<i>For 6,000 PSI Concrete, Add</i>	62.64	
			<i>For White Cement Concrete, Add</i>	27.84	
			<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	30.16	
			<i>For High Early Strength, Type 3 ASTM C150, Add</i>	23.20	
			<i>For Lightweight Aggregate, ASTM C330, Add</i>	81.20	
			<i>For Up To 20, Add</i>	5.91	
			<i>For >20 To 50, Add</i>	2.22	
			<i>For >100 To 200, Deduct</i>	-4.94	
			<i>For >200 To 400, Deduct</i>	-9.87	
			<i>For >400, Deduct</i>	-14.81	
03 31 13 00-0027	CY		Concrete Pump, Place 3,000 PSI Concrete Mat Foundation	263.64	
			Note: Excludes pumping equipment.		
			<i>For 2,000 PSI Concrete, Deduct</i>	-13.57	
			<i>For 2,500 PSI Concrete, Deduct</i>	-6.79	
			<i>For 3,500 PSI Concrete, Add</i>	12.57	
			<i>For 3,750 PSI Concrete, Add</i>	17.09	
			<i>For 4,000 PSI Concrete, Add</i>	21.61	
			<i>For 4,500 PSI Concrete, Add</i>	25.13	
			<i>For 5,000 PSI Concrete, Add</i>	28.65	
			<i>For 6,000 PSI Concrete, Add</i>	67.86	
			<i>For White Cement Concrete, Add</i>	30.16	
			<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	32.67	
			<i>For High Early Strength, Type 3 ASTM C150, Add</i>	25.13	
			<i>For Lightweight Aggregate, ASTM C330, Add</i>	87.97	
			<i>For Up To 20, Add</i>	4.92	
			<i>For >20 To 50, Add</i>	1.85	
			<i>For >100 To 200, Deduct</i>	-5.27	
			<i>For >200 To 400, Deduct</i>	-10.55	
			<i>For >400, Deduct</i>	-15.82	
03 31 13 00-0028			Place Concrete Grade Beams <small>(03 31 13 00-0011)</small>	322.06	
03 31 13 00-0029	CY		Crane And Bucket, Place 3,000 PSI Concrete Grade Beams.....	322.06	
			<i>For 2,000 PSI Concrete, Deduct</i>	-12.53	
			<i>For 2,500 PSI Concrete, Deduct</i>	-6.26	
			<i>For 3,500 PSI Concrete, Add</i>	11.60	
			<i>For 3,750 PSI Concrete, Add</i>	15.78	
			<i>For 4,000 PSI Concrete, Add</i>	19.95	
			<i>For 4,500 PSI Concrete, Add</i>	23.20	
			<i>For 5,000 PSI Concrete, Add</i>	26.45	
			<i>For 6,000 PSI Concrete, Add</i>	62.64	
			<i>For White Cement Concrete, Add</i>	27.84	
			<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	30.16	
			<i>For High Early Strength, Type 3 ASTM C150, Add</i>	23.20	
			<i>For Lightweight Aggregate, ASTM C330, Add</i>	81.20	
			<i>For Up To 20, Add</i>	36.02	
			<i>For >20 To 50, Add</i>	13.51	
			<i>For >100 To 200, Deduct</i>	-6.44	
			<i>For >200 To 400, Deduct</i>	-12.88	
			<i>For >400, Deduct</i>	-19.32	
03 31 13 00-0030	CY		Direct Chute, Place 3,000 PSI Concrete Grade Beams.....	271.39	
			<i>For 2,000 PSI Concrete, Deduct</i>	-12.53	
			<i>For 2,500 PSI Concrete, Deduct</i>	-6.26	
			<i>For 3,500 PSI Concrete, Add</i>	11.60	
			<i>For 3,750 PSI Concrete, Add</i>	15.78	
			<i>For 4,000 PSI Concrete, Add</i>	19.95	
			<i>For 4,500 PSI Concrete, Add</i>	23.20	
			<i>For 5,000 PSI Concrete, Add</i>	26.45	
			<i>For 6,000 PSI Concrete, Add</i>	62.64	
			<i>For White Cement Concrete, Add</i>	27.84	
			<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	30.16	
			<i>For High Early Strength, Type 3 ASTM C150, Add</i>	23.20	
			<i>For Lightweight Aggregate, ASTM C330, Add</i>	81.20	
			<i>For Up To 20, Add</i>	15.76	
			<i>For >20 To 50, Add</i>	5.91	
			<i>For >100 To 200, Deduct</i>	-5.43	
			<i>For >200 To 400, Deduct</i>	-10.86	
			<i>For >400, Deduct</i>	-16.28	



Concrete	03	03
Cast-In-Place Concrete	03 30	
Structural Concrete	03 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0031 CY Concrete Pump, Place 3,000 PSI Concrete Grade Beams.....	288.86	
Note: Excludes pumping equipment.		
For 2,000 PSI Concrete, Deduct	-13.57	
For 2,500 PSI Concrete, Deduct	-6.79	
For 3,500 PSI Concrete, Add	12.57	
For 3,750 PSI Concrete, Add	17.09	
For 4,000 PSI Concrete, Add	21.61	
For 4,500 PSI Concrete, Add	25.13	
For 5,000 PSI Concrete, Add	28.65	
For 6,000 PSI Concrete, Add	67.86	
For White Cement Concrete, Add	30.16	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	32.67	
For High Early Strength, Type 3 ASTM C150, Add	25.13	
For Lightweight Aggregate, ASTM C330, Add	87.97	
For Up To 20, Add	15.01	
For >20 To 50, Add	5.63	
For >100 To 200, Deduct	-5.78	
For >200 To 400, Deduct	-11.55	
For >400, Deduct	-17.33	
03 31 13 00-0032 Place Concrete Slab On Grade <small>(03 31 13 00-0011)</small>		
03 31 13 00-0033 CY Up To 6", By Crane And Bucket, Place 3,000 PSI Concrete Slab On Grade.....	324.17	
For 2,000 PSI Concrete, Deduct	-12.53	
For 2,500 PSI Concrete, Deduct	-6.26	
For 3,500 PSI Concrete, Add	11.60	
For 3,750 PSI Concrete, Add	15.78	
For 4,000 PSI Concrete, Add	19.95	
For 4,500 PSI Concrete, Add	23.20	
For 5,000 PSI Concrete, Add	26.45	
For 6,000 PSI Concrete, Add	62.64	
For White Cement Concrete, Add	27.84	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	30.16	
For High Early Strength, Type 3 ASTM C150, Add	23.20	
For Lightweight Aggregate, ASTM C330, Add	81.20	
For Up To 20, Add	36.87	
For >20 To 50, Add	13.83	
For >100 To 200, Deduct	-6.48	
For >200 To 400, Deduct	-12.97	
For >400, Deduct	-19.45	
03 31 13 00-0034 CY >6", By Crane And Bucket, Place 3,000 PSI Concrete Slab On Grade.....	301.93	
For 2,000 PSI Concrete, Deduct	-12.53	
For 2,500 PSI Concrete, Deduct	-6.26	
For 3,500 PSI Concrete, Add	11.60	
For 3,750 PSI Concrete, Add	15.78	
For 4,000 PSI Concrete, Add	19.95	
For 4,500 PSI Concrete, Add	23.20	
For 5,000 PSI Concrete, Add	26.45	
For 6,000 PSI Concrete, Add	62.64	
For White Cement Concrete, Add	27.84	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	30.16	
For High Early Strength, Type 3 ASTM C150, Add	23.20	
For Lightweight Aggregate, ASTM C330, Add	81.20	
For Up To 20, Add	27.98	
For >20 To 50, Add	10.49	
For >100 To 200, Deduct	-6.04	
For >200 To 400, Deduct	-12.08	
For >400, Deduct	-18.12	
03 31 13 00-0035 CY Up To 6", By Direct Chute, Place 3,000 PSI Concrete Slab On Grade.....	272.32	
For 2,000 PSI Concrete, Deduct	-12.53	
For 2,500 PSI Concrete, Deduct	-6.26	
For 3,500 PSI Concrete, Add	11.60	
For 3,750 PSI Concrete, Add	15.78	
For 4,000 PSI Concrete, Add	19.95	
For 4,500 PSI Concrete, Add	23.20	
For 5,000 PSI Concrete, Add	26.45	
For 6,000 PSI Concrete, Add	62.64	
For White Cement Concrete, Add	27.84	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	30.16	
For High Early Strength, Type 3 ASTM C150, Add	23.20	
For Lightweight Aggregate, ASTM C330, Add	81.20	
For Up To 20, Add	16.13	
For >20 To 50, Add	6.05	
For >100 To 200, Deduct	-5.45	
For >200 To 400, Deduct	-10.89	
For >400, Deduct	-16.34	

03	Concrete
03 30	Cast-In-Place Concrete
03 31	Structural Concrete



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31	13 00-0036	CY	>6", By Direct Chute, Place 3,000 PSI Concrete Slab On Grade	262.59	
			<i>For 2,000 PSI Concrete, Deduct</i>	-12.53	
			<i>For 2,500 PSI Concrete, Deduct</i>	-6.26	
			<i>For 3,500 PSI Concrete, Add</i>	11.60	
			<i>For 3,750 PSI Concrete, Add</i>	15.78	
			<i>For 4,000 PSI Concrete, Add</i>	19.95	
			<i>For 4,500 PSI Concrete, Add</i>	23.20	
			<i>For 5,000 PSI Concrete, Add</i>	26.45	
			<i>For 6,000 PSI Concrete, Add</i>	62.64	
			<i>For White Cement Concrete, Add</i>	27.84	
			<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	30.16	
			<i>For High Early Strength, Type 3 ASTM C150, Add</i>	23.20	
			<i>For Lightweight Aggregate, ASTM C330, Add</i>	81.20	
			<i>For Up To 20, Add</i>	12.24	
			<i>For >20 To 50, Add</i>	4.59	
			<i>For >100 To 200, Deduct</i>	-5.25	
			<i>For >200 To 400, Deduct</i>	-10.50	
			<i>For >400, Deduct</i>	-15.76	
03 31	13 00-0037	CY	Up To 6", By Concrete Pump, Place 3,000 PSI Concrete Slab On Grade.....	284.94	
			Note: Excludes pumping equipment.		
			<i>For 2,000 PSI Concrete, Deduct</i>	-13.57	
			<i>For 2,500 PSI Concrete, Deduct</i>	-6.79	
			<i>For 3,500 PSI Concrete, Add</i>	12.57	
			<i>For 3,750 PSI Concrete, Add</i>	17.09	
			<i>For 4,000 PSI Concrete, Add</i>	21.61	
			<i>For 4,500 PSI Concrete, Add</i>	25.13	
			<i>For 5,000 PSI Concrete, Add</i>	28.65	
			<i>For 6,000 PSI Concrete, Add</i>	67.86	
			<i>For White Cement Concrete, Add</i>	30.16	
			<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	32.67	
			<i>For High Early Strength, Type 3 ASTM C150, Add</i>	25.13	
			<i>For Lightweight Aggregate, ASTM C330, Add</i>	87.97	
			<i>For Up To 20, Add</i>	13.44	
			<i>For >20 To 50, Add</i>	5.04	
			<i>For >100 To 200, Deduct</i>	-5.70	
			<i>For >200 To 400, Deduct</i>	-11.40	
			<i>For >400, Deduct</i>	-17.10	
03 31	13 00-0038	CY	>6", By Concrete Pump, Place 3,000 PSI Concrete Slab On Grade	276.84	
			Note: Excludes pumping equipment.		
			<i>For 2,000 PSI Concrete, Deduct</i>	-13.57	
			<i>For 2,500 PSI Concrete, Deduct</i>	-6.79	
			<i>For 3,500 PSI Concrete, Add</i>	12.57	
			<i>For 3,750 PSI Concrete, Add</i>	17.09	
			<i>For 4,000 PSI Concrete, Add</i>	21.61	
			<i>For 4,500 PSI Concrete, Add</i>	25.13	
			<i>For 5,000 PSI Concrete, Add</i>	28.65	
			<i>For 6,000 PSI Concrete, Add</i>	67.86	
			<i>For White Cement Concrete, Add</i>	30.16	
			<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	32.67	
			<i>For High Early Strength, Type 3 ASTM C150, Add</i>	25.13	
			<i>For Lightweight Aggregate, ASTM C330, Add</i>	87.97	
			<i>For Up To 20, Add</i>	10.20	
			<i>For >20 To 50, Add</i>	3.83	
			<i>For >100 To 200, Deduct</i>	-5.54	
			<i>For >200 To 400, Deduct</i>	-11.07	
			<i>For >400, Deduct</i>	-16.61	
03 31	13 00-0039		Place Concrete Stairs <small>(03 31 13 00-0011)</small>	646.74	
03 31	13 00-0040	CY	Crane And Bucket, Place 3,000 PSI On Grade Concrete Stairs.....	646.74	
			<i>For 2,000 PSI Concrete, Deduct</i>	-12.53	
			<i>For 2,500 PSI Concrete, Deduct</i>	-6.26	
			<i>For 3,500 PSI Concrete, Add</i>	11.60	
			<i>For 3,750 PSI Concrete, Add</i>	15.78	
			<i>For 4,000 PSI Concrete, Add</i>	19.95	
			<i>For 4,500 PSI Concrete, Add</i>	23.20	
			<i>For 5,000 PSI Concrete, Add</i>	26.45	
			<i>For 6,000 PSI Concrete, Add</i>	62.64	
			<i>For White Cement Concrete, Add</i>	27.84	
			<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	30.16	
			<i>For High Early Strength, Type 3 ASTM C150, Add</i>	23.20	
			<i>For Lightweight Aggregate, ASTM C330, Add</i>	81.20	
			<i>For Up To 20, Add</i>	165.90	
			<i>For >20 To 50, Add</i>	62.21	
			<i>For >100 To 200, Deduct</i>	-12.93	
			<i>For >200 To 400, Deduct</i>	-25.87	
			<i>For >400, Deduct</i>	-38.80	



Concrete	03	03
Cast-In-Place Concrete	03 30	
Structural Concrete	03 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0041 CY Direct Chute, Place 3,000 PSI On Grade Concrete Stairs.....	413.49	
For 2,000 PSI Concrete, Deduct	-12.53	
For 2,500 PSI Concrete, Deduct	-6.26	
For 3,500 PSI Concrete, Add	11.60	
For 3,750 PSI Concrete, Add	15.78	
For 4,000 PSI Concrete, Add	19.95	
For 4,500 PSI Concrete, Add	23.20	
For 5,000 PSI Concrete, Add	26.45	
For 6,000 PSI Concrete, Add	62.64	
For White Cement Concrete, Add	27.84	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	30.16	
For High Early Strength, Type 3 ASTM C150, Add	23.20	
For Lightweight Aggregate, ASTM C330, Add	81.20	
For Up To 20, Add	72.60	
For >20 To 50, Add	27.23	
For >100 To 200, Deduct	-8.27	
For >200 To 400, Deduct	-16.54	
For >400, Deduct	-24.81	
03 31 13 00-0042 CY Concrete Pump, Place 3,000 PSI On Grade Concrete Stairs.....	402.60	
Note: Excludes pumping equipment.		
For 2,000 PSI Concrete, Deduct	-13.57	
For 2,500 PSI Concrete, Deduct	-6.79	
For 3,500 PSI Concrete, Add	12.57	
For 3,750 PSI Concrete, Add	17.09	
For 4,000 PSI Concrete, Add	21.61	
For 4,500 PSI Concrete, Add	25.13	
For 5,000 PSI Concrete, Add	28.65	
For 6,000 PSI Concrete, Add	67.86	
For White Cement Concrete, Add	30.16	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	32.67	
For High Early Strength, Type 3 ASTM C150, Add	25.13	
For Lightweight Aggregate, ASTM C330, Add	87.97	
For Up To 20, Add	60.51	
For >20 To 50, Add	22.69	
For >100 To 200, Deduct	-8.05	
For >200 To 400, Deduct	-16.10	
For >400, Deduct	-24.16	
03 31 13 00-0043 Place Concrete Superstructure By Method Indicated (03 31 13 00-0010)		
See CSI section 03 37 16 00-0001 for concrete pump truck.		
03 31 13 00-0044 Place Elevated Concrete Beams (03 31 13 00-0043)		
03 31 13 00-0045 CY Crane And Bucket, Place 3,000 PSI Elevated Concrete Beams	457.16	
For 2,000 PSI Concrete, Deduct	-12.53	
For 2,500 PSI Concrete, Deduct	-6.26	
For 3,500 PSI Concrete, Add	11.60	
For 3,750 PSI Concrete, Add	15.78	
For 4,000 PSI Concrete, Add	19.95	
For 4,500 PSI Concrete, Add	23.20	
For 5,000 PSI Concrete, Add	26.45	
For 6,000 PSI Concrete, Add	62.64	
For White Cement Concrete, Add	27.84	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	30.16	
For High Early Strength, Type 3 ASTM C150, Add	23.20	
For Lightweight Aggregate, ASTM C330, Add	81.20	
For Up To 20, Add	90.07	
For >20 To 50, Add	33.78	
For >100 To 200, Deduct	-9.14	
For >200 To 400, Deduct	-18.29	
For >400, Deduct	-27.43	
03 31 13 00-0046 CY Concrete Pump, Place 3,000 PSI Elevated Concrete Beams.....	345.16	
Note: Excludes pumping equipment.		
For 2,000 PSI Concrete, Deduct	-13.57	
For 2,500 PSI Concrete, Deduct	-6.79	
For 3,500 PSI Concrete, Add	12.57	
For 3,750 PSI Concrete, Add	17.09	
For 4,000 PSI Concrete, Add	21.61	
For 4,500 PSI Concrete, Add	25.13	
For 5,000 PSI Concrete, Add	28.65	
For 6,000 PSI Concrete, Add	67.86	
For White Cement Concrete, Add	30.16	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	32.67	
For High Early Strength, Type 3 ASTM C150, Add	25.13	
For Lightweight Aggregate, ASTM C330, Add	87.97	
For Up To 20, Add	37.53	
For >20 To 50, Add	14.07	
For >100 To 200, Deduct	-6.90	
For >200 To 400, Deduct	-13.81	
For >400, Deduct	-20.71	
03 31 13 00-0047 Place Elevated Concrete Slab (03 31 13 00-0043)		

03 Concrete**03 30 Cast-In-Place Concrete****03 31 Structural Concrete**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

03 31 13 00-0048	CY	Up To 6", By Crane And Bucket, Place 3,000 PSI Elevated Concrete Slab	338.00	
		<i>For 2,000 PSI Concrete, Deduct</i>	-12.53	
		<i>For 2,500 PSI Concrete, Deduct</i>	-6.26	
		<i>For 3,500 PSI Concrete, Add</i>	11.60	
		<i>For 3,750 PSI Concrete, Add</i>	15.78	
		<i>For 4,000 PSI Concrete, Add</i>	19.95	
		<i>For 4,500 PSI Concrete, Add</i>	23.20	
		<i>For 5,000 PSI Concrete, Add</i>	26.45	
		<i>For 6,000 PSI Concrete, Add</i>	62.64	
		<i>For White Cement Concrete, Add</i>	27.84	
		<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	30.16	
		<i>For High Early Strength, Type 3 ASTM C150, Add</i>	23.20	
		<i>For Lightweight Aggregate, ASTM C330, Add</i>	81.20	
		<i>For Up To 20, Add</i>	42.40	
		<i>For >20 To 50, Add</i>	15.90	
		<i>For >100 To 200, Deduct</i>	-6.76	
		<i>For >200 To 400, Deduct</i>	-13.52	
		<i>For >400, Deduct</i>	-20.28	
03 31 13 00-0049	CY	>6", By Crane And Bucket, Place 3,000 PSI Elevated Concrete Slab	312.42	
		<i>For 2,000 PSI Concrete, Deduct</i>	-12.53	
		<i>For 2,500 PSI Concrete, Deduct</i>	-6.26	
		<i>For 3,500 PSI Concrete, Add</i>	11.60	
		<i>For 3,750 PSI Concrete, Add</i>	15.78	
		<i>For 4,000 PSI Concrete, Add</i>	19.95	
		<i>For 4,500 PSI Concrete, Add</i>	23.20	
		<i>For 5,000 PSI Concrete, Add</i>	26.45	
		<i>For 6,000 PSI Concrete, Add</i>	62.64	
		<i>For White Cement Concrete, Add</i>	27.84	
		<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	30.16	
		<i>For High Early Strength, Type 3 ASTM C150, Add</i>	23.20	
		<i>For Lightweight Aggregate, ASTM C330, Add</i>	81.20	
		<i>For Up To 20, Add</i>	32.17	
		<i>For >20 To 50, Add</i>	12.06	
		<i>For >100 To 200, Deduct</i>	-6.25	
		<i>For >200 To 400, Deduct</i>	-12.50	
		<i>For >400, Deduct</i>	-18.75	
03 31 13 00-0050	CY	Up To 6", By Concrete Pump, Place 3,000 PSI Elevated Concrete Slab	295.51	
		Note: Excludes pumping equipment.		
		<i>For 2,000 PSI Concrete, Deduct</i>	-13.57	
		<i>For 2,500 PSI Concrete, Deduct</i>	-6.79	
		<i>For 3,500 PSI Concrete, Add</i>	12.57	
		<i>For 3,750 PSI Concrete, Add</i>	17.09	
		<i>For 4,000 PSI Concrete, Add</i>	21.61	
		<i>For 4,500 PSI Concrete, Add</i>	25.13	
		<i>For 5,000 PSI Concrete, Add</i>	28.65	
		<i>For 6,000 PSI Concrete, Add</i>	67.86	
		<i>For White Cement Concrete, Add</i>	30.16	
		<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	32.67	
		<i>For High Early Strength, Type 3 ASTM C150, Add</i>	25.13	
		<i>For Lightweight Aggregate, ASTM C330, Add</i>	87.97	
		<i>For Up To 20, Add</i>	17.67	
		<i>For >20 To 50, Add</i>	6.63	
		<i>For >100 To 200, Deduct</i>	-5.91	
		<i>For >200 To 400, Deduct</i>	-11.82	
		<i>For >400, Deduct</i>	-17.73	
03 31 13 00-0051	CY	>6", By Concrete Pump, Place 3,000 PSI Elevated Concrete Slab	284.85	
		Note: Excludes pumping equipment.		
		<i>For 2,000 PSI Concrete, Deduct</i>	-13.57	
		<i>For 2,500 PSI Concrete, Deduct</i>	-6.79	
		<i>For 3,500 PSI Concrete, Add</i>	12.57	
		<i>For 3,750 PSI Concrete, Add</i>	17.09	
		<i>For 4,000 PSI Concrete, Add</i>	21.61	
		<i>For 4,500 PSI Concrete, Add</i>	25.13	
		<i>For 5,000 PSI Concrete, Add</i>	28.65	
		<i>For 6,000 PSI Concrete, Add</i>	67.86	
		<i>For White Cement Concrete, Add</i>	30.16	
		<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	32.67	
		<i>For High Early Strength, Type 3 ASTM C150, Add</i>	25.13	
		<i>For Lightweight Aggregate, ASTM C330, Add</i>	87.97	
		<i>For Up To 20, Add</i>	13.41	
		<i>For >20 To 50, Add</i>	5.03	
		<i>For >100 To 200, Deduct</i>	-5.70	
		<i>For >200 To 400, Deduct</i>	-11.39	
		<i>For >400, Deduct</i>	-17.09	

03 31 13 00-0052 Place Concrete Columns (03 31 13 00-0043)



Concrete	03	03
Cast-In-Place Concrete	03 30	
Structural Concrete	03 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0053 CY 12" Square Or Round, By Crane And Bucket, Place 3,000 PSI Concrete Columns	475.18	
For 2,000 PSI Concrete, Deduct	-12.53	
For 2,500 PSI Concrete, Deduct	-6.26	
For 3,500 PSI Concrete, Add	11.60	
For 3,750 PSI Concrete, Add	15.78	
For 4,000 PSI Concrete, Add	19.95	
For 4,500 PSI Concrete, Add	23.20	
For 5,000 PSI Concrete, Add	26.45	
For 6,000 PSI Concrete, Add	62.64	
For White Cement Concrete, Add	27.84	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	30.16	
For High Early Strength, Type 3 ASTM C150, Add	23.20	
For Lightweight Aggregate, ASTM C330, Add	81.20	
For Up To 20, Add	97.27	
For >20 To 50, Add	36.48	
For >100 To 200, Deduct	-9.50	
For >200 To 400, Deduct	-19.01	
For >400, Deduct	-28.51	
03 31 13 00-0054 CY 18" Square Or Round, By Crane And Bucket, Place 3,000 PSI Concrete Columns	408.74	
For 2,000 PSI Concrete, Deduct	-12.53	
For 2,500 PSI Concrete, Deduct	-6.26	
For 3,500 PSI Concrete, Add	11.60	
For 3,750 PSI Concrete, Add	15.78	
For 4,000 PSI Concrete, Add	19.95	
For 4,500 PSI Concrete, Add	23.20	
For 5,000 PSI Concrete, Add	26.45	
For 6,000 PSI Concrete, Add	62.64	
For White Cement Concrete, Add	27.84	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	30.16	
For High Early Strength, Type 3 ASTM C150, Add	23.20	
For Lightweight Aggregate, ASTM C330, Add	81.20	
For Up To 20, Add	70.70	
For >20 To 50, Add	26.51	
For >100 To 200, Deduct	-8.17	
For >200 To 400, Deduct	-16.35	
For >400, Deduct	-24.52	
03 31 13 00-0055 CY 24" Square Or Round, By Crane And Bucket, Place 3,000 PSI Concrete Columns	361.24	
For 2,000 PSI Concrete, Deduct	-12.53	
For 2,500 PSI Concrete, Deduct	-6.26	
For 3,500 PSI Concrete, Add	11.60	
For 3,750 PSI Concrete, Add	15.78	
For 4,000 PSI Concrete, Add	19.95	
For 4,500 PSI Concrete, Add	23.20	
For 5,000 PSI Concrete, Add	26.45	
For 6,000 PSI Concrete, Add	62.64	
For White Cement Concrete, Add	27.84	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	30.16	
For High Early Strength, Type 3 ASTM C150, Add	23.20	
For Lightweight Aggregate, ASTM C330, Add	81.20	
For Up To 20, Add	51.70	
For >20 To 50, Add	19.39	
For >100 To 200, Deduct	-7.22	
For >200 To 400, Deduct	-14.45	
For >400, Deduct	-21.67	
03 31 13 00-0056 CY 36" Square Or Round, By Crane And Bucket, Place 3,000 PSI Concrete Columns	340.07	
For 2,000 PSI Concrete, Deduct	-12.53	
For 2,500 PSI Concrete, Deduct	-6.26	
For 3,500 PSI Concrete, Add	11.60	
For 3,750 PSI Concrete, Add	15.78	
For 4,000 PSI Concrete, Add	19.95	
For 4,500 PSI Concrete, Add	23.20	
For 5,000 PSI Concrete, Add	26.45	
For 6,000 PSI Concrete, Add	62.64	
For White Cement Concrete, Add	27.84	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	30.16	
For High Early Strength, Type 3 ASTM C150, Add	23.20	
For Lightweight Aggregate, ASTM C330, Add	81.20	
For Up To 20, Add	43.23	
For >20 To 50, Add	16.21	
For >100 To 200, Deduct	-6.80	
For >200 To 400, Deduct	-13.60	
For >400, Deduct	-20.40	

03	Concrete
03 30	Cast-In-Place Concrete
03 31	Structural Concrete



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0057	CY		12" Square Or Round, By Concrete Pump, Place 3,000 PSI Concrete Columns .....352.66		
			Note: Excludes pumping equipment.		
			For 2,000 PSI Concrete, Deduct	-13.57	
			For 2,500 PSI Concrete, Deduct	-6.79	
			For 3,500 PSI Concrete, Add	12.57	
			For 3,750 PSI Concrete, Add	17.09	
			For 4,000 PSI Concrete, Add	21.61	
			For 4,500 PSI Concrete, Add	25.13	
			For 5,000 PSI Concrete, Add	28.65	
			For 6,000 PSI Concrete, Add	67.86	
			For White Cement Concrete, Add	30.16	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	32.67	
			For High Early Strength, Type 3 ASTM C150, Add	25.13	
			For Lightweight Aggregate, ASTM C330, Add	87.97	
			For Up To 20, Add	40.53	
			For >20 To 50, Add	15.20	
			For >100 To 200, Deduct	-7.05	
			For >200 To 400, Deduct	-14.11	
			For >400, Deduct	-21.16	
03 31 13 00-0058	CY		18" Square Or Round, By Concrete Pump, Place 3,000 PSI Concrete Columns .....324.99		
			Note: Excludes pumping equipment.		
			For 2,000 PSI Concrete, Deduct	-13.57	
			For 2,500 PSI Concrete, Deduct	-6.79	
			For 3,500 PSI Concrete, Add	12.57	
			For 3,750 PSI Concrete, Add	17.09	
			For 4,000 PSI Concrete, Add	21.61	
			For 4,500 PSI Concrete, Add	25.13	
			For 5,000 PSI Concrete, Add	28.65	
			For 6,000 PSI Concrete, Add	67.86	
			For White Cement Concrete, Add	30.16	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	32.67	
			For High Early Strength, Type 3 ASTM C150, Add	25.13	
			For Lightweight Aggregate, ASTM C330, Add	87.97	
			For Up To 20, Add	29.46	
			For >20 To 50, Add	11.05	
			For >100 To 200, Deduct	-6.50	
			For >200 To 400, Deduct	-13.00	
			For >400, Deduct	-19.50	
03 31 13 00-0059	CY		24" Square Or Round, By Concrete Pump, Place 3,000 PSI Concrete Columns .....305.19		
			Note: Excludes pumping equipment.		
			For 2,000 PSI Concrete, Deduct	-13.57	
			For 2,500 PSI Concrete, Deduct	-6.79	
			For 3,500 PSI Concrete, Add	12.57	
			For 3,750 PSI Concrete, Add	17.09	
			For 4,000 PSI Concrete, Add	21.61	
			For 4,500 PSI Concrete, Add	25.13	
			For 5,000 PSI Concrete, Add	28.65	
			For 6,000 PSI Concrete, Add	67.86	
			For White Cement Concrete, Add	30.16	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	32.67	
			For High Early Strength, Type 3 ASTM C150, Add	25.13	
			For Lightweight Aggregate, ASTM C330, Add	87.97	
			For Up To 20, Add	21.54	
			For >20 To 50, Add	8.08	
			For >100 To 200, Deduct	-6.10	
			For >200 To 400, Deduct	-12.21	
			For >400, Deduct	-18.31	
03 31 13 00-0060	CY		36" Square Or Round, By Concrete Pump, Place 3,000 PSI Concrete Columns .....296.36		
			Note: Excludes pumping equipment.		
			For 2,000 PSI Concrete, Deduct	-13.57	
			For 2,500 PSI Concrete, Deduct	-6.79	
			For 3,500 PSI Concrete, Add	12.57	
			For 3,750 PSI Concrete, Add	17.09	
			For 4,000 PSI Concrete, Add	21.61	
			For 4,500 PSI Concrete, Add	25.13	
			For 5,000 PSI Concrete, Add	28.65	
			For 6,000 PSI Concrete, Add	67.86	
			For White Cement Concrete, Add	30.16	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	32.67	
			For High Early Strength, Type 3 ASTM C150, Add	25.13	
			For Lightweight Aggregate, ASTM C330, Add	87.97	
			For Up To 20, Add	18.01	
			For >20 To 50, Add	6.75	
			For >100 To 200, Deduct	-5.93	
			For >200 To 400, Deduct	-11.85	
			For >400, Deduct	-17.78	

03 31 13 00-0061 Place Concrete Walls (03 31 13 00-0043)



Concrete	03	03
Cast-In-Place Concrete	03 30	
Structural Concrete	03 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0062 CY Up To 8" Thick, By Crane And Bucket, Place 3,000 PSI Concrete Walls	459.96	
For 2,000 PSI Concrete, Deduct	-12.53	
For 2,500 PSI Concrete, Deduct	-6.26	
For 3,500 PSI Concrete, Add	11.60	
For 3,750 PSI Concrete, Add	15.78	
For 4,000 PSI Concrete, Add	19.95	
For 4,500 PSI Concrete, Add	23.20	
For 5,000 PSI Concrete, Add	26.45	
For 6,000 PSI Concrete, Add	62.64	
For White Cement Concrete, Add	27.84	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	30.16	
For High Early Strength, Type 3 ASTM C150, Add	23.20	
For Lightweight Aggregate, ASTM C330, Add	81.20	
For Up To 20, Add	91.19	
For >20 To 50, Add	34.20	
For >100 To 200, Deduct	-9.20	
For >200 To 400, Deduct	-18.40	
For >400, Deduct	-27.60	
03 31 13 00-0063 CY 12" Thick, By Crane And Bucket, Place 3,000 PSI Concrete Walls	441.06	
For 2,000 PSI Concrete, Deduct	-12.53	
For 2,500 PSI Concrete, Deduct	-6.26	
For 3,500 PSI Concrete, Add	11.60	
For 3,750 PSI Concrete, Add	15.78	
For 4,000 PSI Concrete, Add	19.95	
For 4,500 PSI Concrete, Add	23.20	
For 5,000 PSI Concrete, Add	26.45	
For 6,000 PSI Concrete, Add	62.64	
For White Cement Concrete, Add	27.84	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	30.16	
For High Early Strength, Type 3 ASTM C150, Add	23.20	
For Lightweight Aggregate, ASTM C330, Add	81.20	
For Up To 20, Add	83.63	
For >20 To 50, Add	31.36	
For >100 To 200, Deduct	-8.82	
For >200 To 400, Deduct	-17.64	
For >400, Deduct	-26.46	
03 31 13 00-0064 CY 15" Thick, By Crane And Bucket, Place 3,000 PSI Concrete Walls	391.57	
For 2,000 PSI Concrete, Deduct	-12.53	
For 2,500 PSI Concrete, Deduct	-6.26	
For 3,500 PSI Concrete, Add	11.60	
For 3,750 PSI Concrete, Add	15.78	
For 4,000 PSI Concrete, Add	19.95	
For 4,500 PSI Concrete, Add	23.20	
For 5,000 PSI Concrete, Add	26.45	
For 6,000 PSI Concrete, Add	62.64	
For White Cement Concrete, Add	27.84	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	30.16	
For High Early Strength, Type 3 ASTM C150, Add	23.20	
For Lightweight Aggregate, ASTM C330, Add	81.20	
For Up To 20, Add	63.83	
For >20 To 50, Add	23.94	
For >100 To 200, Deduct	-7.83	
For >200 To 400, Deduct	-15.66	
For >400, Deduct	-23.49	
03 31 13 00-0065 CY Up To 8" Thick, By Direct Chute, Place 3,000 PSI Concrete Walls	331.74	
For 2,000 PSI Concrete, Deduct	-12.53	
For 2,500 PSI Concrete, Deduct	-6.26	
For 3,500 PSI Concrete, Add	11.60	
For 3,750 PSI Concrete, Add	15.78	
For 4,000 PSI Concrete, Add	19.95	
For 4,500 PSI Concrete, Add	23.20	
For 5,000 PSI Concrete, Add	26.45	
For 6,000 PSI Concrete, Add	62.64	
For White Cement Concrete, Add	27.84	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	30.16	
For High Early Strength, Type 3 ASTM C150, Add	23.20	
For Lightweight Aggregate, ASTM C330, Add	81.20	
For Up To 20, Add	39.90	
For >20 To 50, Add	14.96	
For >100 To 200, Deduct	-6.63	
For >200 To 400, Deduct	-13.27	
For >400, Deduct	-19.90	

03	Concrete
03 30	Cast-In-Place Concrete
03 31	Structural Concrete



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

03 31 13 00-0066	CY 12" Thick, By Direct Chute, Place 3,000 PSI Concrete Walls	311.79	
	For 2,000 PSI Concrete, Deduct	-12.53	
	For 2,500 PSI Concrete, Deduct	-6.26	
	For 3,500 PSI Concrete, Add	11.60	
	For 3,750 PSI Concrete, Add	15.78	
	For 4,000 PSI Concrete, Add	19.95	
	For 4,500 PSI Concrete, Add	23.20	
	For 5,000 PSI Concrete, Add	26.45	
	For 6,000 PSI Concrete, Add	62.64	
	For White Cement Concrete, Add	27.84	
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	30.16	
	For High Early Strength, Type 3 ASTM C150, Add	23.20	
	For Lightweight Aggregate, ASTM C330, Add	81.20	
	For Up To 20, Add	31.92	
	For >20 To 50, Add	11.97	
	For >100 To 200, Deduct	-6.24	
	For >200 To 400, Deduct	-12.47	
	For >400, Deduct	-18.71	
03 31 13 00-0067	CY 15" Thick, By Direct Chute, Place 3,000 PSI Concrete Walls	301.82	
	For 2,000 PSI Concrete, Deduct	-12.53	
	For 2,500 PSI Concrete, Deduct	-6.26	
	For 3,500 PSI Concrete, Add	11.60	
	For 3,750 PSI Concrete, Add	15.78	
	For 4,000 PSI Concrete, Add	19.95	
	For 4,500 PSI Concrete, Add	23.20	
	For 5,000 PSI Concrete, Add	26.45	
	For 6,000 PSI Concrete, Add	62.64	
	For White Cement Concrete, Add	27.84	
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	30.16	
	For High Early Strength, Type 3 ASTM C150, Add	23.20	
	For Lightweight Aggregate, ASTM C330, Add	81.20	
	For Up To 20, Add	27.93	
	For >20 To 50, Add	10.47	
	For >100 To 200, Deduct	-6.04	
	For >200 To 400, Deduct	-12.07	
	For >400, Deduct	-18.11	
03 31 13 00-0068	CY Up To 8" Thick, By Concrete Pump, Place 3,000 PSI Concrete Walls	346.33	
	Note: Excludes pumping equipment.		
	For 2,000 PSI Concrete, Deduct	-13.57	
	For 2,500 PSI Concrete, Deduct	-6.79	
	For 3,500 PSI Concrete, Add	12.57	
	For 3,750 PSI Concrete, Add	17.09	
	For 4,000 PSI Concrete, Add	21.61	
	For 4,500 PSI Concrete, Add	25.13	
	For 5,000 PSI Concrete, Add	28.65	
	For 6,000 PSI Concrete, Add	67.86	
	For White Cement Concrete, Add	30.16	
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	32.67	
	For High Early Strength, Type 3 ASTM C150, Add	25.13	
	For Lightweight Aggregate, ASTM C330, Add	87.97	
	For Up To 20, Add	38.00	
	For >20 To 50, Add	14.25	
	For >100 To 200, Deduct	-6.93	
	For >200 To 400, Deduct	-13.85	
	For >400, Deduct	-20.78	
03 31 13 00-0069	CY 12" Thick, By Concrete Pump, Place 3,000 PSI Concrete Walls	327.32	
	Note: Excludes pumping equipment.		
	For 2,000 PSI Concrete, Deduct	-13.57	
	For 2,500 PSI Concrete, Deduct	-6.79	
	For 3,500 PSI Concrete, Add	12.57	
	For 3,750 PSI Concrete, Add	17.09	
	For 4,000 PSI Concrete, Add	21.61	
	For 4,500 PSI Concrete, Add	25.13	
	For 5,000 PSI Concrete, Add	28.65	
	For 6,000 PSI Concrete, Add	67.86	
	For White Cement Concrete, Add	30.16	
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	32.67	
	For High Early Strength, Type 3 ASTM C150, Add	25.13	
	For Lightweight Aggregate, ASTM C330, Add	87.97	
	For Up To 20, Add	30.40	
	For >20 To 50, Add	11.40	
	For >100 To 200, Deduct	-6.55	
	For >200 To 400, Deduct	-13.09	
	For >400, Deduct	-19.64	



Concrete	03	03
Cast-In-Place Concrete	03 30	
Structural Concrete	03 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0070 CY 15" Thick, By Concrete Pump, Place 3,000 PSI Concrete Walls	317.83	
Note: Excludes pumping equipment.		
For 2,000 PSI Concrete, Deduct	-13.57	
For 2,500 PSI Concrete, Deduct	-6.79	
For 3,500 PSI Concrete, Add	12.57	
For 3,750 PSI Concrete, Add	17.09	
For 4,000 PSI Concrete, Add	21.61	
For 4,500 PSI Concrete, Add	25.13	
For 5,000 PSI Concrete, Add	28.65	
For 6,000 PSI Concrete, Add	67.86	
For White Cement Concrete, Add	30.16	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	32.67	
For High Early Strength, Type 3 ASTM C150, Add	25.13	
For Lightweight Aggregate, ASTM C330, Add	87.97	
For Up To 20, Add	26.60	
For >20 To 50, Add	9.98	
For >100 To 200, Deduct	-6.36	
For >200 To 400, Deduct	-12.71	
For >400, Deduct	-19.07	
03 31 13 00-0071 Place Elevated Concrete Stairs (03 31 13 00-0043)		
03 31 13 00-0072 CY Crane And Bucket, Place 3,000 PSI Elevated Concrete Stairs	692.87	
For 2,000 PSI Concrete, Deduct	-12.53	
For 2,500 PSI Concrete, Deduct	-6.26	
For 3,500 PSI Concrete, Add	11.60	
For 3,750 PSI Concrete, Add	15.78	
For 4,000 PSI Concrete, Add	19.95	
For 4,500 PSI Concrete, Add	23.20	
For 5,000 PSI Concrete, Add	26.45	
For 6,000 PSI Concrete, Add	62.64	
For White Cement Concrete, Add	27.84	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	30.16	
For High Early Strength, Type 3 ASTM C150, Add	23.20	
For Lightweight Aggregate, ASTM C330, Add	81.20	
For Up To 20, Add	184.35	
For >20 To 50, Add	69.13	
For >100 To 200, Deduct	-13.86	
For >200 To 400, Deduct	-27.71	
For >400, Deduct	-41.57	
03 31 13 00-0073 CY Direct Chute, Place 3,000 PSI Elevated Concrete Stairs.....	433.66	
For 2,000 PSI Concrete, Deduct	-12.53	
For 2,500 PSI Concrete, Deduct	-6.26	
For 3,500 PSI Concrete, Add	11.60	
For 3,750 PSI Concrete, Add	15.78	
For 4,000 PSI Concrete, Add	19.95	
For 4,500 PSI Concrete, Add	23.20	
For 5,000 PSI Concrete, Add	26.45	
For 6,000 PSI Concrete, Add	62.64	
For White Cement Concrete, Add	27.84	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	30.16	
For High Early Strength, Type 3 ASTM C150, Add	23.20	
For Lightweight Aggregate, ASTM C330, Add	81.20	
For Up To 20, Add	80.66	
For >20 To 50, Add	30.25	
For >100 To 200, Deduct	-8.67	
For >200 To 400, Deduct	-17.35	
For >400, Deduct	-26.02	
03 31 13 00-0074 CY Concrete Pump, Place 3,000 PSI Elevated Concrete Stairs.....	419.39	
Note: Excludes pumping equipment.		
For 2,000 PSI Concrete, Deduct	-13.57	
For 2,500 PSI Concrete, Deduct	-6.79	
For 3,500 PSI Concrete, Add	12.57	
For 3,750 PSI Concrete, Add	17.09	
For 4,000 PSI Concrete, Add	21.61	
For 4,500 PSI Concrete, Add	25.13	
For 5,000 PSI Concrete, Add	28.65	
For 6,000 PSI Concrete, Add	67.86	
For White Cement Concrete, Add	30.16	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	32.67	
For High Early Strength, Type 3 ASTM C150, Add	25.13	
For Lightweight Aggregate, ASTM C330, Add	87.97	
For Up To 20, Add	67.22	
For >20 To 50, Add	25.21	
For >100 To 200, Deduct	-8.39	
For >200 To 400, Deduct	-16.78	
For >400, Deduct	-25.16	
03 31 13 00-0075 Place Concrete Coping (03 31 13 00-0043)		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31	13 00-0076	CY	Crane And Bucket, Place 3,000 PSI Concrete Coping	708.82	
			For 2,000 PSI Concrete, Deduct	-12.53	
			For 2,500 PSI Concrete, Deduct	-6.26	
			For 3,500 PSI Concrete, Add	11.60	
			For 3,750 PSI Concrete, Add	15.78	
			For 4,000 PSI Concrete, Add	19.95	
			For 4,500 PSI Concrete, Add	23.20	
			For 5,000 PSI Concrete, Add	26.45	
			For 6,000 PSI Concrete, Add	62.64	
			For White Cement Concrete, Add	27.84	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	30.16	
			For High Early Strength, Type 3 ASTM C150, Add	23.20	
			For Lightweight Aggregate, ASTM C330, Add	81.20	
			For Up To 20, Add	190.73	
			For >20 To 50, Add	71.52	
			For >100 To 200, Deduct	-14.18	
			For >200 To 400, Deduct	-28.35	
			For >400, Deduct	-42.53	
03 31	13 00-0077	CY	Direct Chute, Place 3,000 PSI Concrete Coping	432.30	
			For 2,000 PSI Concrete, Deduct	-12.53	
			For 2,500 PSI Concrete, Deduct	-6.26	
			For 3,500 PSI Concrete, Add	11.60	
			For 3,750 PSI Concrete, Add	15.78	
			For 4,000 PSI Concrete, Add	19.95	
			For 4,500 PSI Concrete, Add	23.20	
			For 5,000 PSI Concrete, Add	26.45	
			For 6,000 PSI Concrete, Add	62.64	
			For White Cement Concrete, Add	27.84	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	30.16	
			For High Early Strength, Type 3 ASTM C150, Add	23.20	
			For Lightweight Aggregate, ASTM C330, Add	81.20	
			For Up To 20, Add	80.12	
			For >20 To 50, Add	30.05	
			For >100 To 200, Deduct	-8.65	
			For >200 To 400, Deduct	-17.29	
			For >400, Deduct	-25.94	
03 31	13 00-0078	CY	Concrete Pump, Place 3,000 PSI Concrete Coping	554.72	
			Note: Excludes pumping equipment.		
			For 2,000 PSI Concrete, Deduct	-13.57	
			For 2,500 PSI Concrete, Deduct	-6.79	
			For 3,500 PSI Concrete, Add	12.57	
			For 3,750 PSI Concrete, Add	17.09	
			For 4,000 PSI Concrete, Add	21.61	
			For 4,500 PSI Concrete, Add	25.13	
			For 5,000 PSI Concrete, Add	28.65	
			For 6,000 PSI Concrete, Add	67.86	
			For White Cement Concrete, Add	30.16	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	32.67	
			For High Early Strength, Type 3 ASTM C150, Add	25.13	
			For Lightweight Aggregate, ASTM C330, Add	87.97	
			For Up To 20, Add	121.36	
			For >20 To 50, Add	45.51	
			For >100 To 200, Deduct	-11.09	
			For >200 To 400, Deduct	-22.19	
			For >400, Deduct	-33.28	
03 31	13 00-0079		Concrete Carts <small>(03 31 13 00-0010)</small>		
			Note: Used to place concrete were necessary.		
03 31	13 00-0080	CY	50' Haul, Non-Motorized, Concrete Buggy	23.63	
03 31	13 00-0081	CY	150' Haul, Non-Motorized, Concrete Buggy	31.63	
03 31	13 00-0082	CY	250' Haul, Non-Motorized, Concrete Buggy	42.19	
03 31	13 00-0083	CY	50' Haul, Motorized, Concrete Buggy	10.79	
03 31	13 00-0084	CY	150' Haul, Motorized, Concrete Buggy	14.45	
03 31	13 00-0085	CY	250' Haul, Motorized, Concrete Buggy	19.27	
03 31	13 00-0086		Delivery Fee For Small Concrete Purchases (Short Load) <small>(03 31 13)</small>		
03 31	13 00-0087	CY	Delivery Fee For Small Concrete Purchases (Short Load) Per CY For Each CY Less Than 9 CY	33.02	
			Note: The task quantity is 9 minus the number of CY's delivered. For example, the delivery fee for 2CY's is: (9-2) = 7.		
03 31	13 00-0088		Equipment Pads <small>(03 31 13)</small>		
03 31	13 00-0089		Small Concrete Equipment Housekeeping Pad Assemblies <small>(03 31 13 00-0088)</small>		
			Note: Includes forms, hand mix concrete, finish, curing and reinforcing. For up to 50 SF per pad and up to 5 pads per project. See CSI section 03 31 13 00-0002 for >50 SF concrete pads.		
03 31	13 00-0090	SF	4" Equipment Pad With Welded Wire Reinforcement Assembly	19.79	
			For >5 To 20 Pads, Deduct	-2.31	
			For >20 To 50 Pads, Deduct	-4.23	
			For >50 Pads, Deduct	-6.15	
03 31	13 00-0091	SF	4" Equipment Pad With Rebar Assembly	24.11	
			For >5 To 20 Pads, Deduct	-2.66	
			For >20 To 50 Pads, Deduct	-4.88	
			For >50 Pads, Deduct	-7.09	



Concrete	03	03
Cast-In-Place Concrete	03 30	
Structural Concrete	03 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0092 SF 6" Equipment Pad With Rebar Assembly.....	30.60	
For >5 To 20 Pads, Deduct	-3.34	
For >20 To 50 Pads, Deduct	-6.13	
For >50 Pads, Deduct	-8.91	
03 31 13 00-0093 SF 8" Equipment Pad With Rebar Assembly.....	38.57	
For >5 To 20 Pads, Deduct	-4.25	
For >20 To 50 Pads, Deduct	-7.79	
For >50 Pads, Deduct	-11.32	
03 31 13 00-0094 Delivery Fee For Concrete, Per Truck Load (03 31 13)		
03 31 13 00-0095 EA Concrete Delivery Fee, Per Truck.....	40.00	
Note: To be added to all concrete leaving concrete yard		
03 31 16 Lightweight Structural Concrete (03 31)		
03 31 16 00-0001 Low Density Cellular / Foam Concrete Fill (03 31 16)		
03 31 16 00-0002 CY Lightweight Low Density Pervious Cellular/Foam Concrete, 100 To 120 PCF Density Range.....	295.50	
03 35 Concrete Finishing (03 30)		
03 35 13 High-Tolerance Concrete Floor Finishing (03 35)		
03 35 13 00-0001 Floor Finishes (03 35 13)		
Note: Task is for final finish type and includes all required prior finishes.		
03 35 13 00-0002 SF Scream, Concrete Floor Finish.....	1.01	
For Up To 100, Add	2.02	
For >100 To 250, Add	0.51	
For >250 To 500, Add	0.25	
For >5,000 To 10,000, Deduct	-0.05	
For >10,000, Deduct	-0.10	
03 35 13 00-0003 SF Darby, Concrete Floor Finish.....	1.21	
For Up To 100, Add	2.42	
For >100 To 250, Add	0.61	
For >250 To 500, Add	0.30	
For >5,000 To 10,000, Deduct	-0.06	
For >10,000, Deduct	-0.12	
03 35 13 00-0004 SF Broom, Concrete Floor Finish.....	1.33	
For Up To 100, Add	2.66	
For >100 To 250, Add	0.67	
For >250 To 500, Add	0.33	
For >5,000 To 10,000, Deduct	-0.07	
For >10,000, Deduct	-0.13	
03 35 13 00-0005 SF Final Float, Concrete Floor Finish.....	1.56	
For Up To 100, Add	3.12	
For >100 To 250, Add	0.78	
For >250 To 500, Add	0.39	
For >5,000 To 10,000, Deduct	-0.08	
For >10,000, Deduct	-0.16	
03 35 13 00-0006 SF Steel Trowel, Concrete Floor Finish.....	1.75	
For Up To 100, Add	3.50	
For >100 To 250, Add	0.88	
For >250 To 500, Add	0.44	
For >5,000 To 10,000, Deduct	-0.09	
For >10,000, Deduct	-0.18	
03 35 13 00-0007 SF Concrete Floor Finishes, Machine.....	1.56	
For Up To 100, Add	3.12	
For >100 To 250, Add	0.78	
For >250 To 500, Add	0.39	
For >5,000 To 10,000, Deduct	-0.08	
For >10,000, Deduct	-0.16	
03 35 16 Heavy-Duty Concrete Floor Finishing (03 35)		
03 35 16 00-0001 Shake On Floor Hardeners (03 35 16)		
03 35 16 00-0002 SF 0.3 LB/SF, Metallic, Shake On Floor Hardener.....	1.36	
03 35 16 00-0003 SF 0.65 LB/SF, Metallic, Shake On Floor Hardener.....	2.17	
03 35 16 00-0004 SF 0.3 LB/SF, Non-Metallic, Shake On Floor Hardener.....	1.27	
03 35 16 00-0005 SF 0.65 LB/SF, Non-Metallic, Shake On Floor Hardener.....	1.61	
03 35 19 Colored Concrete Finishing (03 35)		
03 35 19 00-0001 Concrete Surface Treatments (03 35 19)		
03 35 19 00-0002 SF Acrylic Latex Bonding Agent.....	0.52	
03 35 19 00-0003 SF Epoxy Resin Bonding Agent.....	3.18	
03 35 19 00-0004 SF Clear Acrylic Sealer, Hardener And Dustproof.....	0.38	
03 35 19 00-0005 SF Colored Acrylic Sealer, Hardener And Dustproof.....	0.40	
03 35 23 Exposed Aggregate Concrete Finishing (03 35)		

03	03 Concrete
	03 30 Cast-In-Place Concrete
	03 35 Concrete Finishing



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 35 23 00-0001 Exposed Aggregate, Concrete Finish <small>(03 35 23)</small>		
03 35 23 00-0002 SF Exposed Aggregate, Concrete Floor Finish	3.28	
03 35 26 Grooved Concrete Surface Finishing <small>(03 35)</small>		
03 35 26 00-0001 Ramp, Grooved Concrete Surface Finishing <small>(03 35 26)</small>		
03 35 26 00-0002 SF Ramp, Grooved Concrete Surface Finishing	4.63	
03 35 29 Tooled Concrete Finishing <small>(03 35)</small>		
03 35 29 00-0001 Solid Board Concrete Finish <small>(03 35 29)</small>		
03 35 29 00-0002 SF Solid Board Concrete, Non-Uniform Finish, 1 Use, Add To Formwork	18.19	
03 35 29 00-0003 Marblecrete Finishes <small>(03 35 29)</small>		
03 35 29 00-0004 SF 2" Thick Marblecrete And Finish	54.40	
03 35 29 00-0005 SF 4" Thick Marblecrete And Finish	72.83	
03 35 33 Stamped Concrete Finishing <small>(03 35)</small>		
03 35 33 00-0001 Stamped Concrete Finishes <small>(03 35 33)</small>		
03 35 33 00-0002 SF Up To 2,500 SF Stamped Concrete Finish	4.06	
03 35 33 00-0003 SF >2,500 To 10,000 SF Stamped Concrete Finish	3.68	
03 35 33 00-0004 SF >10,000 SF Stamped Concrete Finish	3.52	
03 35 43 Polished Concrete Finishing <small>(03 35)</small>		
03 35 43 00-0001 Concrete Floor Polishing System <small>(03 35 43)</small>		
Note: The floor polishing system below may consist of one or multiple applications of each task/step below depending on existing conditions and desired results.		
03 35 43 00-0002 SF Mechanically Grind Concrete Floor With 40 Grit Metal Bonded Diamond Wheels	1.91	
For Up To 500, Add	3.63	
For >500 To 1,000, Add	3.37	
For >1,000 To 2,500, Add	2.23	
For >2,500 To 4,000, Add	1.16	
For >8,000 To 15,000, Deduct	-0.45	
For >15,000 To 25,000, Deduct	-0.57	
For >25,000, Deduct	-0.80	
03 35 43 00-0003 SF Mechanically Grind Concrete Floor With 80 Grit Metal Bonded Diamond Wheels	1.54	
For Up To 500, Add	2.91	
For >500 To 1,000, Add	2.70	
For >1,000 To 2,500, Add	1.79	
For >2,500 To 4,000, Add	0.93	
For >8,000 To 15,000, Deduct	-0.36	
For >15,000 To 25,000, Deduct	-0.46	
For >25,000, Deduct	-0.65	
03 35 43 00-0004 SF Mechanically Grind Concrete Floor With 100 Grit Resin Bonded Diamond Wheels	1.28	
For Up To 500, Add	2.41	
For >500 To 1,000, Add	2.23	
For >1,000 To 2,500, Add	1.48	
For >2,500 To 4,000, Add	0.77	
For >8,000 To 15,000, Deduct	-0.30	
For >15,000 To 25,000, Deduct	-0.38	
For >25,000, Deduct	-0.53	
03 35 43 00-0005 SF Mechanically Grind Concrete Floor With 150 Grit Metal Bonded Diamond Wheels	1.20	
For Up To 500, Add	2.25	
For >500 To 1,000, Add	2.09	
For >1,000 To 2,500, Add	1.38	
For >2,500 To 4,000, Add	0.72	
For >8,000 To 15,000, Deduct	-0.28	
For >15,000 To 25,000, Deduct	-0.35	
For >25,000, Deduct	-0.50	
03 35 43 00-0006 SF Mechanically Grind Concrete Floor With 200 Grit Resin Bonded Diamond Wheels	1.10	
For Up To 500, Add	2.06	
For >500 To 1,000, Add	1.91	
For >1,000 To 2,500, Add	1.26	
For >2,500 To 4,000, Add	0.66	
For >8,000 To 15,000, Deduct	-0.25	
For >15,000 To 25,000, Deduct	-0.32	
For >25,000, Deduct	-0.46	
03 35 43 00-0007 SF Mechanically Grind Concrete Floor With 400 Grit Resin Bonded Diamond Wheels	1.10	
For Up To 500, Add	2.06	
For >500 To 1,000, Add	1.91	
For >1,000 To 2,500, Add	1.26	
For >2,500 To 4,000, Add	0.66	
For >8,000 To 15,000, Deduct	-0.25	
For >15,000 To 25,000, Deduct	-0.32	
For >25,000, Deduct	-0.46	



Concrete	03	03
Cast-In-Place Concrete	03 30	
Concrete Finishing	03 35	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 35 43 00-0008 SF Mechanically Grind Concrete Floor With 800 Grit Resin Bonded Diamond Wheels	1.10	
For Up To 500, Add	2.06	
For >500 To 1,000, Add	1.91	
For >1,000 To 2,500, Add	1.26	
For >2,500 To 4,000, Add	0.66	
For >8,000 To 15,000, Deduct	-0.25	
For >15,000 To 25,000, Deduct	-0.32	
For >25,000, Deduct	-0.46	
03 35 43 00-0009 SF Mechanically Grind Concrete Floor With 1,500 Grit Resin Bonded Diamond Wheels	1.10	
For Up To 500, Add	2.06	
For >500 To 1,000, Add	1.91	
For >1,000 To 2,500, Add	1.26	
For >2,500 To 4,000, Add	0.66	
For >8,000 To 15,000, Deduct	-0.25	
For >15,000 To 25,000, Deduct	-0.32	
For >25,000, Deduct	-0.46	
03 35 43 00-0010 SF High Speed Burnish Concrete Floor With Diamond Pads.....	0.27	
For Up To 500, Add	0.45	
For >500 To 1,000, Add	0.41	
For >1,000 To 2,500, Add	0.27	
For >2,500 To 4,000, Add	0.14	
For >8,000 To 15,000, Deduct	-0.06	
For >15,000 To 25,000, Deduct	-0.07	
For >25,000, Deduct	-0.10	
03 35 43 00-0011 SF Apply 1 Coat Of Concrete Densifier For Concrete Floor Polishing	0.52	
For Up To 500, Add	0.56	
For >500 To 1,000, Add	0.52	
For >1,000 To 2,500, Add	0.35	
For >2,500 To 4,000, Add	0.18	
For >8,000 To 15,000, Deduct	-0.07	
For >15,000 To 25,000, Deduct	-0.09	
For >25,000, Deduct	-0.12	
03 35 43 00-0012 SF Apply 2 Coats Of Concrete Densifier With Stain Protector For Concrete Floor Polishing.....	0.88	
For Up To 500, Add	0.81	
For >500 To 1,000, Add	0.76	
For >1,000 To 2,500, Add	0.50	
For >2,500 To 4,000, Add	0.26	
For >8,000 To 15,000, Deduct	-0.10	
For >15,000 To 25,000, Deduct	-0.13	
For >25,000, Deduct	-0.18	
03 35 43 00-0013 SF Concrete Floor Polishing Final Clean Up.....	0.15	
For Up To 500, Add	0.29	
For >500 To 1,000, Add	0.27	
For >1,000 To 2,500, Add	0.18	
For >2,500 To 4,000, Add	0.09	
For >8,000 To 15,000, Deduct	-0.04	
For >15,000 To 25,000, Deduct	-0.05	
For >25,000, Deduct	-0.06	
03 35 63 Slip-Resistant Floor Finishing (03 35)		
03 35 63 00-0001 Slip-Resistant Floor Finishing (03 35 63)		
03 35 63 00-0002 SF Aluminum Oxide Abrasive Floor Finish, 0.25 LB/SF	1.61	
For Up To 100, Add	1.94	
For >100 To 250, Add	0.49	
For >250 To 500, Add	0.24	
For >5,000 To 10,000, Deduct	-0.05	
For >10,000, Deduct	-0.10	
03 35 63 00-0003 SF Silicone Carbide Abrasive Floor Finish 0.25 LB/SF	1.31	
For Up To 100, Add	1.94	
For >100 To 250, Add	0.49	
For >250 To 500, Add	0.24	
For >5,000 To 10,000, Deduct	-0.05	
For >10,000, Deduct	-0.10	
03 35 66 Acid Etch Floor Finishing (03 35)		
03 35 66 00-0001 Acid Etch Floor (03 35 66)		
03 35 66 00-0002 SF Concrete Floor Finishes, Etch With Acid And Rinse	1.20	
For Up To 100, Add	0.92	
For >100 To 250, Add	0.23	
For >250 To 500, Add	0.12	
For >5,000 To 10,000, Deduct	-0.02	
For >10,000, Deduct	-0.05	
03 35 83 Concrete Wall Finishing (03 35)		
03 35 83 00-0001 Wall Finishes (03 35 83)		

03	Concrete
03 30	Cast-In-Place Concrete
03 35	Concrete Finishing



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 35 83 00-0002 SF Burlap Rub With Grout, New Concrete Wall Finishes	1.82	
For Up To 100, Add	3.38	
For >100 To 250, Add	0.85	
For >250 To 500, Add	0.42	
For >5,000 To 10,000, Deduct	-0.08	
For >10,000, Deduct	-0.17	
03 35 83 00-0003 SF 1/16" Float Finish, New Concrete Wall Finishes	2.73	
For Up To 100, Add	5.06	
For >100 To 250, Add	1.27	
For >250 To 500, Add	0.63	
For >5,000 To 10,000, Deduct	-0.13	
For >10,000, Deduct	-0.25	
03 35 83 00-0004 SF Etch With Acid And Rinse, New Concrete Wall Finishes	1.30	
For Up To 100, Add	1.12	
For >100 To 250, Add	0.28	
For >250 To 500, Add	0.14	
For >5,000 To 10,000, Deduct	-0.03	
For >10,000, Deduct	-0.06	
03 35 83 00-0005 SF Bush Hammer Green Concrete, New Concrete Wall Finishes	5.43	
For Up To 100, Add	10.72	
For >100 To 250, Add	2.68	
For >250 To 500, Add	1.34	
For >5,000 To 10,000, Deduct	-0.27	
For >10,000, Deduct	-0.54	
03 35 83 00-0006 SF Bush Hammer Cured Concrete, New Concrete Wall Finishes	8.41	
For Up To 100, Add	16.56	
For >100 To 250, Add	4.14	
For >250 To 500, Add	2.07	
For >5,000 To 10,000, Deduct	-0.41	
For >10,000, Deduct	-0.83	
03 35 83 00-0007 SF Break Ties And Patch, New Concrete Wall Finishes	1.08	
For Up To 100, Add	1.82	
For >100 To 250, Add	0.46	
For >250 To 500, Add	0.23	
For >5,000 To 10,000, Deduct	-0.05	
For >10,000, Deduct	-0.09	
03 35 83 00-0008 SF Carborundum Dry Rub, New Concrete Wall Finishes	3.54	
For Up To 100, Add	6.74	
For >100 To 250, Add	1.69	
For >250 To 500, Add	0.84	
For >5,000 To 10,000, Deduct	-0.17	
For >10,000, Deduct	-0.34	
03 35 83 00-0009 SF Carborundum Wet Rub, New Concrete Wall Finishes	5.38	
For Up To 100, Add	10.42	
For >100 To 250, Add	2.61	
For >250 To 500, Add	1.30	
For >5,000 To 10,000, Deduct	-0.26	
For >10,000, Deduct	-0.52	
03 35 83 00-0010 SF Up To 1/4" Penetration Abrasive Media Blasting, New Concrete Wall Finishes	5.42	
Note: 4.5 Lbs of sand or abrasive media material per SF		
For Up To 100, Add	8.64	
For >100 To 250, Add	2.16	
For >250 To 500, Add	1.08	
For >5,000 To 10,000, Deduct	-0.22	
For >10,000, Deduct	-0.43	
03 35 83 00-0011 SF >1/4" To 1/2" Penetration Abrasive Media Blasting, New Concrete Wall Finishes	10.83	
Note: 9 Lbs of sand abrasive media material per SF		
For Up To 100, Add	17.28	
For >100 To 250, Add	4.32	
For >250 To 500, Add	2.16	
For >5,000 To 10,000, Deduct	-0.43	
For >10,000, Deduct	-0.86	

03 37 Specialty Placed Concrete (03 30)

Note: Includes gun finish. Not to be used for pumping concrete tasks. See CSI section 03 35 00 00-0000 for finishing.

03 37 13 Shotcrete (03 37)

03 37 13 00-0001 Shotcrete, Fiber Reinforced, Structural Repair (03 37 13)

03 37 13 00-0002 SF 1" Thick Shotcrete, Fiber Reinforced	3.44	
For Up To 25, Add	0.64	
For >25 To 50, Add	0.37	
For >50 To 150, Add	0.15	
03 37 13 00-0003 SF 2" Thick Shotcrete, Fiber Reinforced	6.49	
For Up To 25, Add	1.19	
For >25 To 50, Add	0.68	
For >50 To 150, Add	0.27	
03 37 13 00-0004 SF 3" Thick Shotcrete, Fiber Reinforced	9.19	
For Up To 25, Add	1.65	
For >25 To 50, Add	0.94	
For >50 To 150, Add	0.36	
03 37 13 00-0005 SF 4" Thick Shotcrete, Fiber Reinforced	11.60	
For Up To 25, Add	2.03	
For >25 To 50, Add	1.16	
For >50 To 150, Add	0.44	



Concrete	03	03
Cast-In-Place Concrete	03 30	
Specialty Placed Concrete	03 37	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 37 13 00-0006 SF 6" Thick Shotcrete, Fiber Reinforced	15.74	
For Up To 25, Add	2.63	
For >25 To 50, Add	1.49	
For >50 To 150, Add	0.53	
03 37 13 00-0007 Gunite (Dry Mix Shotcrete), Sprayed ^(03 37 13)		
See CSI section 03 22 11 00-0001 for wire mesh reinforcing.		
03 37 13 00-0008 SF 1" Thick Gunite (Dry Mix Shotcrete), Sprayed	3.74	
For Radius Or Irregular Surface, Add	1.10	
For Up To 25, Add	0.79	
For >25 To 50, Add	0.46	
For >50 To 150, Add	0.21	
03 37 13 00-0009 SF 2" Thick Gunite (Dry Mix Shotcrete), Sprayed	6.91	
For Radius Or Irregular Surface, Add	1.98	
For Up To 25, Add	1.43	
For >25 To 50, Add	0.84	
For >50 To 150, Add	0.37	
03 37 13 00-0010 SF 3" Thick Gunite (Dry Mix Shotcrete), Sprayed	9.62	
For Radius Or Irregular Surface, Add	2.67	
For Up To 25, Add	1.96	
For >25 To 50, Add	1.15	
For >50 To 150, Add	0.50	
03 37 13 00-0011 SF 4" Thick Gunite (Dry Mix Shotcrete), Sprayed	11.94	
For Radius Or Irregular Surface, Add	3.20	
For Up To 25, Add	2.39	
For >25 To 50, Add	1.40	
For >50 To 150, Add	0.60	
03 37 13 00-0012 SF 5" Thick Gunite (Dry Mix Shotcrete), Sprayed	13.92	
For Radius Or Irregular Surface, Add	3.60	
For Up To 25, Add	2.74	
For >25 To 50, Add	1.60	
For >50 To 150, Add	0.68	
03 37 13 00-0013 SF 6" Thick Gunite (Dry Mix Shotcrete), Sprayed	15.63	
For Radius Or Irregular Surface, Add	3.89	
For Up To 25, Add	3.02	
For >25 To 50, Add	1.75	
For >50 To 150, Add	0.73	
03 37 13 00-0014 SF 8" Thick Gunite (Dry Mix Shotcrete), Sprayed	19.53	
For Radius Or Irregular Surface, Add	4.66	
For Up To 25, Add	3.70	
For >25 To 50, Add	2.14	
For >50 To 150, Add	0.87	
03 37 13 00-0015 SF 10" Thick Gunite (Dry Mix Shotcrete), Sprayed	22.96	
For Radius Or Irregular Surface, Add	5.25	
For Up To 25, Add	4.26	
For >25 To 50, Add	2.46	
For >50 To 150, Add	0.98	
03 37 13 00-0016 SF 12" Thick Gunite (Dry Mix Shotcrete), Sprayed	25.98	
For Radius Or Irregular Surface, Add	5.67	
For Up To 25, Add	4.72	
For >25 To 50, Add	2.72	
For >50 To 150, Add	1.06	

03 37 16 Pumped Concrete ^(03 37)

03 37 16 00-0001 Concrete Pumping With Boom Truck ^(03 37 16)

Note: Includes truck rental, operator, and local travel delivery. For delivery/set-up of equipment add one hour, for clean-up of equipment add one hour. Use four hours as the minimum cost including set-up and clean-up. Excludes concrete, use "Concrete Pump" concrete tasks from appropriate section to place into pump hopper and place concrete. Sizes are measured at a 30 degree vertical reach. See CSI section 03 31 13 00-0010 for concrete placement.

03 37 16 00-0002 HR 55' To 60' Boom Truck For Concrete Placement (95 CY Per Hour Rating)	246.46
03 37 16 00-0003 HR 70' To 80' Boom Truck For Concrete Placement (117 CY Per Hour Rating)	268.22
03 37 16 00-0004 HR 90' To 100' Boom Truck For Concrete Placement (117 CY Per Hour Rating)	346.81
03 37 16 00-0005 HR 105' To 115' Boom Truck For Concrete Placement (117 CY Per Hour Rating)	395.73
03 37 16 00-0006 HR 120' To 130' Boom Truck For Concrete Placement (170 CY Per Hour Rating)	446.22
03 37 16 00-0007 HR 135' To 140' Boom Truck For Concrete Placement (170 CY Per Hour Rating)	553.15
03 37 16 00-0008 HR 148' To 155' Boom Truck For Concrete Placement (170 CY Per Hour Rating)	616.94
03 37 16 00-0009 HR 170' To 175' Boom Truck For Concrete Placement (182 CY Per Hour Rating)	771.45
03 37 16 00-0010 HR 35 CY/HR, 66 HP Trailer Mounted Concrete Pump	167.62
Note: Includes hoses	

03 39 Concrete Curing ^(03 39)

03 39 13 Water Concrete Curing ^(03 39)

03 39 13 00-0001 Water Concrete Curing ^(03 39 13)

03 39 13 00-0002 SF Water Based Curing, Sealing, Hardening And Dustproofing Compound	0.35
Note: Coverage rates: rough finish = 300 SF/GAL, broom finish = 300 to 400 SF/GAL, steel troweled = 500 to 600 SF/GAL, and vertical surface = 400 - 500 SF/GAL.	

03	03 Concrete
	03 30 Cast-In-Place Concrete
	03 39 Concrete Curing



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
------------------------------	---------------------------	-------------------------

03 39 23 Membrane Concrete Curing (03 39)

03 39 23 23 Sheet Membrane Concrete Curing (03 39 23)

03 39 23 23-0001 Warm Weather Concrete Curing Blankets (03 39 23 23)

03 39 23 23-0002	CSF	Warm Weather Concrete Curing Blankets	37.35
------------------	-----	---	-------

03 39 23 23-0003 Cold Weather Concrete Curing Blankets (03 39 23 23)

03 39 23 23-0004	CSF	Electric, Cold Weather Concrete Curing Blanket	305.03
03 39 23 23-0005	CSF	Non-Electric, Cold Weather Concrete Curing Blanket	36.86

03 50 Cast Decks and Underlayment (03)

03 51 Cast Roof Decks (03 50)

03 51 13 Cementitious Wood Fiber Decks (03 51)

03 51 13 00-0001 Cement Fiber Tongue And Groove Planks (03 51 13)

03 51 13 00-0002	SF	1" Thick Cementitious Fiber Tongue And Groove Planks, Cement Wood Fiber System	4.71
03 51 13 00-0003	SF	1-1/2" Thick Cementitious Fiber Tongue And Groove Planks, Cement Wood Fiber System	4.92
03 51 13 00-0004	SF	2" Thick Cementitious Fiber Tongue And Groove Planks, Cement Wood Fiber System	5.14
03 51 13 00-0005	SF	2-1/2" Thick Cementitious Fiber Tongue And Groove Planks, Cement Wood Fiber System	5.89
03 51 13 00-0006	SF	3" Thick Cementitious Fiber Tongue And Groove Planks, Cement Wood Fiber System	6.70
03 51 13 00-0007	SF	3-1/2" Thick Cementitious Fiber Tongue And Groove Planks, Cement Wood Fiber System	7.62
03 51 13 00-0008	SF	4" Thick Cementitious Fiber Tongue And Groove Planks, Cement Wood Fiber System	8.76

03 51 16 Gypsum Concrete Roof Decks (03 51)

03 51 16 00-0001 Class A Gypsum Fill Concrete Deck (03 51 16)

03 51 16 00-0002	SF	2" Thick Precast Gypsum Fill Concrete Deck, Class A	11.56	0.57
03 51 16 00-0003	SF	2-1/2" Thick Precast Gypsum Fill Concrete Deck, Class A	14.33	0.66
03 51 16 00-0004	SF	3" Thick Precast Gypsum Fill Concrete Deck, Class A	17.12	0.75
03 51 16 00-0005	SF	3-1/2" Thick Precast Gypsum Fill Concrete Deck, Class A	19.93	0.84
03 51 16 00-0006	SF	4" Thick Precast Gypsum Fill Concrete Deck, Class A	22.76	0.93

03 51 16 00-0007 Form Board For Lightweight Deck (03 51 16)

03 51 16 00-0008	SF	Gypsum Deck Form Board, 1/2" Drywall For Lightweight Deck	2.39	
03 51 16 00-0009	SF	Gypsum Deck Form Board, 1" Mineral Fiber Board For Lightweight Deck	3.17	
03 51 16 00-0010	SF	Gypsum Deck Form Board, 1-1/2" Mineral Fiber Board For Lightweight Deck	6.51	
03 51 16 00-0011	SF	Gypsum Deck Form Board, 1" Cementitious Fiber Board For Lightweight Deck	2.64	0.64
03 51 16 00-0012	SF	Gypsum Deck Form Board, 1-1/2" Cementitious Fiber Board For Lightweight Deck	3.20	0.64
03 51 16 00-0013	SF	Gypsum Deck Form Board, 1" Glass Fiber Board For Lightweight Deck	3.55	0.64
03 51 16 00-0014	SF	Gypsum Deck Form Board, 1-1/2" Glass Fiber Board For Lightweight Deck	4.37	0.64

03 51 16 00-0015 Gypsum Plank (03 51 16)

03 51 16 00-0016	SF	2" Thick, Insulating Concrete Gypsum Plank, Roof Deck	4.88
03 51 16 00-0017	SF	3" Thick, Insulating Concrete Gypsum Plank, Roof Deck	6.58

03 53 Concrete Topping (03 50)

Note: Installed over new or existing concrete.

03 53 14 Granolithic Concrete Topping (03 53)

03 53 14 00-0001 Granolithic Topping Laid After (03 53 14)

Note: Using 1:1:1-1/2 mix.

03 53 14 00-0002	SF	1/2" Thick Concrete Topping, Granolithic Laid After Finish, 1:1:1-1/2 Mix	4.39
03 53 14 00-0003	SF	1" Thick Concrete Topping, Granolithic Laid After Finish, 1:1:1-1/2 Mix	4.83
03 53 14 00-0004	SF	2" Thick Concrete Topping, Granolithic Laid After Finish, 1:1:1-1/2 Mix	6.24

03 53 19 Concrete Overlayment (03 53)

03 53 19 00-0001 Integral Topping Including Hard Trowel Finish (03 53 19)

Note: Using 1:1:2 mix.

03 53 19 00-0002	SF	3/16" Thick Hard Trowel Integral Concrete Topping, 1:1:2 Mix	2.61
03 53 19 00-0003	SF	1/2" Thick Hard Trowel Integral Concrete Topping, 1:1:2 Mix	2.99
03 53 19 00-0004	SF	3/4" Thick Hard Trowel Integral Concrete Topping, 1:1:2 Mix	3.56
03 53 19 00-0005	SF	1" Thick Hard Trowel Integral Concrete Topping, 1:1:2 Mix	4.27
03 53 19 00-0006	SF	2" Thick Hard Trowel Integral Concrete Topping, 1:1:2 Mix	6.25
03 53 19 00-0007	SF	2-1/2" Thick Hard Trowel Integral Concrete Topping, 1:1:2 Mix	5.58
03 53 19 00-0008	SF	3" Thick Hard Trowel Integral Concrete Topping, 1:1:2 Mix	6.34

03 54 Cast Underlayment (03 50)

Note: Includes primer. Excludes sandblasting existing smooth finished concrete surface (where necessary).



Concrete	03	03
Cast Decks and Underlayment	03 50	
Cast Underlayment	03 54	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
------------------------------	---------------------------	-------------------------

03 54 16 Hydraulic Cement Underlayment (03 54)

03 54 16 00-0001	Self Leveling Cementitious Underlayment For Floors <small>(03 54 16)</small>	
	Note: Includes primer.	
03 54 16 00-0002	SF 1/8" Thick Self Leveling Cementitious Underlayment For Floors	2.14
	Note: Including Surface Preparation	
	For Up To 100 SF, Add	0.14
	For >100 To 250 SF, Add	0.07
03 54 16 00-0003	SF 1/4" Thick Self Leveling Cementitious Underlayment For Floors	3.79
	Note: Including Surface Preparation	
	For Up To 100 SF, Add	0.14
	For >100 To 250 SF, Add	0.07
03 54 16 00-0004	SF 3/8" Thick Self Leveling Cementitious Underlayment For Floors	4.89
	Note: Including Surface Preparation	
	For Up To 100 SF, Add	0.14
	For >100 To 250 SF, Add	0.07
03 54 16 00-0005	SF 1/2" Thick Self Leveling Cementitious Underlayment For Floors	7.08
	Note: Including Surface Preparation	
	For Up To 100 SF, Add	0.14
	For >100 To 250 SF, Add	0.07
03 54 16 00-0006	SF 5/8" Thick Self Leveling Cementitious Underlayment For Floors	8.40
	Note: Including Surface Preparation	
	For Up To 100 SF, Add	0.14
	For >100 To 250 SF, Add	0.07
03 54 16 00-0007	SF 3/4" Thick Self Leveling Cementitious Underlayment For Floors	10.42
	Note: Including Surface Preparation	
	For Up To 100 SF, Add	0.17
	For >100 To 250 SF, Add	0.08
03 54 16 00-0008	SF 1" Thick Self Leveling Cementitious Underlayment For Floors	13.71
	Note: Including Surface Preparation	
	For Up To 100 SF, Add	0.17
	For >100 To 250 SF, Add	0.08
03 54 16 00-0009	SF 1-1/4" Thick Self Leveling Cementitious Underlayment For Floors	18.12
	Note: Including Surface Preparation	
	For Up To 100 SF, Add	0.19
	For >100 To 250 SF, Add	0.09
03 54 16 00-0010	SF 1-1/2" Thick Self Leveling Cementitious Underlayment For Floors	20.33
	Note: Including Surface Preparation	
	For Up To 100 SF, Add	0.19
	For >100 To 250 SF, Add	0.09
03 54 16 00-0011	SF 1-3/4" Thick Self Leveling Cementitious Underlayment For Floors	27.01
	Note: Including Surface Preparation	
	For Up To 100 SF, Add	0.23
	For >100 To 250 SF, Add	0.12

03 60 Grouting (03)

03 61 Cementitious Grouting (03 60)

Note: 1 part cement to 3 parts sand by volume.

03 61 16 Cementitious Flowable Grout (03 61)

03 61 16 00-0001	Cementitious Flowable Grout <small>(03 61 16)</small>	
03 61 16 00-0002	CY Cementitious Flowable Grout	540.43

03 62 Non-Shrink Grouting (03 60)

03 62 13 Non-Metallic Non-Shrink Grouting (03 62)

03 62 13 00-0001	Fluid Type, Non-Metallic Non-Shrink Grouting For Bases <small>(03 62 13)</small>	
03 62 13 00-0002	SF 1" Deep, Fluid Type, Non-Metallic Non-Shrink Grout For Bases	29.17
03 62 13 00-0003	SF 2" Deep, Fluid Type, Non-Metallic Non-Shrink Grout For Bases	44.66
03 62 13 00-0004	Non-Metallic Non-Shrink Grouting For Bases <small>(03 62 13)</small>	
03 62 13 00-0005	SF 1" Deep, Non-Metallic Non-Shrink Grout For Bases	45.34
03 62 13 00-0006	SF 2" Deep, Non-Metallic Non-Shrink Grout For Bases	74.56
03 62 13 00-0007	Non-Metallic Non-Shrink Grouting For Joints <small>(03 62 13)</small>	
03 62 13 00-0008	1/2" Joint Thickness, Non-Metallic Non-Shrink Grout For Joints <small>(03 62 13 00-0007)</small>	
03 62 13 00-0009	LF 4" Deep x 1/2" Thick, Non-Metallic Non-Shrink Grout For Joints	2.25
03 62 13 00-0010	LF 6" Deep x 1/2" Thick, Non-Metallic Non-Shrink Grout For Joints	2.98
03 62 13 00-0011	LF 8" Deep x 1/2" Thick, Non-Metallic Non-Shrink Grout For Joints	3.95
03 62 13 00-0012	1" Joint Thickness, Non-Metallic Non-Shrink Grout For Joints <small>(03 62 13 00-0007)</small>	
03 62 13 00-0013	LF 4" Deep x 1" Thick, Non-Metallic Non-Shrink Grout For Joints	3.42
03 62 13 00-0014	LF 6" Deep x 1" Thick, Non-Metallic Non-Shrink Grout For Joints	4.61
03 62 13 00-0015	LF 8" Deep x 1" Thick, Non-Metallic Non-Shrink Grout For Joints	6.12

03	03 Concrete
	03 60 Grouting
	03 62 Non-Shrink Grouting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
------------------------------	---------------------------	-------------------------

03 62 16 Metallic Non-Shrink Grouting (03 62)

03 62 16 00-0001	Metallic Non-Shrink Grouting For Bases <small>(03 62 16)</small>	
03 62 16 00-0002	SF 1" Deep, Metallic Non-Shrink Grout For Bases.....	36.97
03 62 16 00-0003	SF 2" Deep, Metallic Non-Shrink Grout For Bases.....	58.32

03 62 16 00-0004 Metallic Non-Shrink Grouting For Joints (03 62 16)

03 62 16 00-0005	1/2" Joint Thickness, Metallic Non-Shrink Grout For Joints <small>(03 62 16 00-0004)</small>	
03 62 16 00-0006	LF 4" Deep x 1/2" Thick, Metallic Non-Shrink Grout For Joints.....	1.72
03 62 16 00-0007	LF 6" Deep x 1/2" Thick, Metallic Non-Shrink Grout For Joints.....	2.19
03 62 16 00-0008	LF 8" Deep x 1/2" Thick, Metallic Non-Shrink Grout For Joints.....	2.93

03 62 16 00-0009 1" Joint Thickness, Metallic Non-Shrink Grout For Joints (03 62 16 00-0004)

03 62 16 00-0010	LF 4" Deep x 1" Thick, Metallic Non-Shrink Grout For Joints.....	2.40
03 62 16 00-0011	LF 6" Deep x 1" Thick, Metallic Non-Shrink Grout For Joints.....	3.03
03 62 16 00-0012	LF 8" Deep x 1" Thick, Metallic Non-Shrink Grout For Joints.....	4.04

03 64 Injection Grouting (03 60)

Note: By volume of void filled. Includes injection ports.

03 64 23 Epoxy Injection Grouting (03 64)

03 64 23 00-0001	Pressure Injected Epoxy Grout <small>(03 64 23)</small>	
03 64 23 00-0002	CF Pressure Injected Epoxy Grout.....	1,325.65
	<i>For >4, Deduct</i>	<i>-140.45</i>

03 64 26 Cementitious Injection Grouting (03 64)

03 64 26 00-0001	Pressure Injected Cementitious Grout <small>(03 64 26)</small>	
03 64 26 00-0002	CF Pressure Injected Cementitious Grout.....	230.40
	<i>For >4, Deduct</i>	<i>-60.25</i>

END OF SECTION 03



MINOR	CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
-------	---------------------	------------------------	----------------------

05 Metals

05 05 Common Work Results for Metals (05)

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

See CSI section 03 15 19 00-0000 for cast-in concrete anchors.

05 05 19 00-0001	Concrete And Masonry Anchors <small>(05 05 19)</small>		
05 05 19 00-0002	Expansion Anchors <small>(05 05 19 00-0001)</small>		
	Note: Includes drilling.		
05 05 19 00-0003	Wedge Expansion Bolt Anchors <small>(05 05 19 00-0002)</small>		
05 05 19 00-0004	Zinc Plated Steel, Wedge Anchor Expansion Bolt <small>(05 05 19 00-0003)</small>		
	Note: Includes nut and washer.		
05 05 19 00-0005	EA 1/4" Diameter x 1-3/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	13.41	
	For >10 To 50, Deduct	-0.63	
	For >50 To 100, Deduct	-1.27	
	For >100, Deduct	-2.55	
05 05 19 00-0006	EA 1/4" Diameter x 2-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	13.55	
	For >10 To 50, Deduct	-0.63	
	For >50 To 100, Deduct	-1.28	
	For >100, Deduct	-2.56	
05 05 19 00-0007	EA 1/4" Diameter x 3-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	13.99	
	For >10 To 50, Deduct	-0.64	
	For >50 To 100, Deduct	-1.32	
	For >100, Deduct	-2.63	
05 05 19 00-0008	EA 3/8" Diameter x 2-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	16.49	
	For >10 To 50, Deduct	-0.76	
	For >50 To 100, Deduct	-1.56	
	For >100, Deduct	-3.11	
05 05 19 00-0009	EA 3/8" Diameter x 2-3/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	16.59	
	For >10 To 50, Deduct	-0.76	
	For >50 To 100, Deduct	-1.56	
	For >100, Deduct	-3.12	
05 05 19 00-0010	EA 3/8" Diameter x 3" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	16.63	
	For >10 To 50, Deduct	-0.76	
	For >50 To 100, Deduct	-1.56	
	For >100, Deduct	-3.12	
05 05 19 00-0011	EA 3/8" Diameter x 5" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	17.03	
	For >10 To 50, Deduct	-0.76	
	For >50 To 100, Deduct	-1.57	
	For >100, Deduct	-3.14	
05 05 19 00-0012	EA 1/2" Diameter x 2-3/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	23.94	
	For >10 To 50, Deduct	-1.08	
	For >50 To 100, Deduct	-2.22	
	For >100, Deduct	-4.45	
05 05 19 00-0013	EA 1/2" Diameter x 3-3/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	24.02	
	For >10 To 50, Deduct	-1.08	
	For >50 To 100, Deduct	-2.23	
	For >100, Deduct	-4.45	
05 05 19 00-0014	EA 1/2" Diameter x 4-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	24.18	
	For >10 To 50, Deduct	-1.08	
	For >50 To 100, Deduct	-2.23	
	For >100, Deduct	-4.46	
05 05 19 00-0015	EA 1/2" Diameter x 5-1/2" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	24.63	
	For >10 To 50, Deduct	-1.08	
	For >50 To 100, Deduct	-2.24	
	For >100, Deduct	-4.48	
05 05 19 00-0016	EA 1/2" Diameter x 7" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	25.25	
	For >10 To 50, Deduct	-1.08	
	For >50 To 100, Deduct	-2.26	
	For >100, Deduct	-4.51	
05 05 19 00-0017	EA 5/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	31.30	
	For >10 To 50, Deduct	-1.34	
	For >50 To 100, Deduct	-2.79	
	For >100, Deduct	-5.58	
05 05 19 00-0018	EA 5/8" Diameter x 4-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	31.44	
	For >10 To 50, Deduct	-1.34	
	For >50 To 100, Deduct	-2.79	
	For >100, Deduct	-5.58	
05 05 19 00-0019	EA 5/8" Diameter x 5" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	31.72	
	For >10 To 50, Deduct	-1.34	
	For >50 To 100, Deduct	-2.80	
	For >100, Deduct	-5.60	
05 05 19 00-0020	EA 5/8" Diameter x 6" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	32.27	
	For >10 To 50, Deduct	-1.34	
	For >50 To 100, Deduct	-2.81	
	For >100, Deduct	-5.62	
05 05 19 00-0021	EA 5/8" Diameter x 7" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	32.82	
	For >10 To 50, Deduct	-1.34	
	For >50 To 100, Deduct	-2.83	
	For >100, Deduct	-5.65	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0022	EA		5/8" Diameter x 8-1/2" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	37.17	
			<i>For >10 To 50, Deduct</i>	-1.34	
			<i>For >50 To 100, Deduct</i>	-2.93	
			<i>For >100, Deduct</i>	-5.87	
05 05 19 00-0023	EA		5/8" Diameter x 10" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	40.90	
			<i>For >10 To 50, Deduct</i>	-1.34	
			<i>For >50 To 100, Deduct</i>	-3.03	
			<i>For >100, Deduct</i>	-6.06	
05 05 19 00-0024	EA		3/4" Diameter x 4-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	37.85	
			<i>For >10 To 50, Deduct</i>	-1.59	
			<i>For >50 To 100, Deduct</i>	-3.33	
			<i>For >100, Deduct</i>	-6.67	
05 05 19 00-0025	EA		3/4" Diameter x 4-3/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	37.97	
			<i>For >10 To 50, Deduct</i>	-1.59	
			<i>For >50 To 100, Deduct</i>	-3.34	
			<i>For >100, Deduct</i>	-6.67	
05 05 19 00-0026	EA		3/4" Diameter x 5-1/2" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	38.63	
			<i>For >10 To 50, Deduct</i>	-1.59	
			<i>For >50 To 100, Deduct</i>	-3.35	
			<i>For >100, Deduct</i>	-6.70	
05 05 19 00-0027	EA		3/4" Diameter x 6-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	39.43	
			<i>For >10 To 50, Deduct</i>	-1.59	
			<i>For >50 To 100, Deduct</i>	-3.37	
			<i>For >100, Deduct</i>	-6.74	
05 05 19 00-0028	EA		3/4" Diameter x 7" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	40.35	
			<i>For >10 To 50, Deduct</i>	-1.59	
			<i>For >50 To 100, Deduct</i>	-3.40	
			<i>For >100, Deduct</i>	-6.79	
05 05 19 00-0029	EA		3/4" Diameter x 8-1/2" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	43.83	
			<i>For >10 To 50, Deduct</i>	-1.59	
			<i>For >50 To 100, Deduct</i>	-3.48	
			<i>For >100, Deduct</i>	-6.96	
05 05 19 00-0030	EA		3/4" Diameter x 10" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	48.46	
			<i>For >10 To 50, Deduct</i>	-1.59	
			<i>For >50 To 100, Deduct</i>	-3.60	
			<i>For >100, Deduct</i>	-7.20	
05 05 19 00-0031	EA		3/4" Diameter x 12" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	53.69	
			<i>For >10 To 50, Deduct</i>	-1.59	
			<i>For >50 To 100, Deduct</i>	-3.73	
			<i>For >100, Deduct</i>	-7.46	
05 05 19 00-0032	EA		7/8" Diameter x 6" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	51.76	
			<i>For >10 To 50, Deduct</i>	-1.73	
			<i>For >50 To 100, Deduct</i>	-3.88	
			<i>For >100, Deduct</i>	-7.77	
05 05 19 00-0033	EA		7/8" Diameter x 8" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	54.51	
			<i>For >10 To 50, Deduct</i>	-1.73	
			<i>For >50 To 100, Deduct</i>	-3.95	
			<i>For >100, Deduct</i>	-7.90	
05 05 19 00-0034	EA		7/8" Diameter x 10" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	58.15	
			<i>For >10 To 50, Deduct</i>	-1.73	
			<i>For >50 To 100, Deduct</i>	-4.04	
			<i>For >100, Deduct</i>	-8.09	
05 05 19 00-0035	EA		1" Diameter x 6" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	63.85	
			<i>For >10 To 50, Deduct</i>	-2.23	
			<i>For >50 To 100, Deduct</i>	-4.95	
			<i>For >100, Deduct</i>	-9.89	
05 05 19 00-0036	EA		1" Diameter x 9" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	69.03	
			<i>For >10 To 50, Deduct</i>	-2.23	
			<i>For >50 To 100, Deduct</i>	-5.08	
			<i>For >100, Deduct</i>	-10.15	
05 05 19 00-0037	EA		1" Diameter x 12" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	74.16	
			<i>For >10 To 50, Deduct</i>	-2.23	
			<i>For >50 To 100, Deduct</i>	-5.21	
			<i>For >100, Deduct</i>	-10.41	
05 05 19 00-0038	EA		1-1/4" Diameter x 9" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	83.30	
			<i>For >10 To 50, Deduct</i>	-2.86	
			<i>For >50 To 100, Deduct</i>	-6.37	
			<i>For >100, Deduct</i>	-12.75	
05 05 19 00-0039	EA		1-1/4" Diameter x 12" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	87.00	
			<i>For >10 To 50, Deduct</i>	-2.86	
			<i>For >50 To 100, Deduct</i>	-6.47	
			<i>For >100, Deduct</i>	-12.93	
05 05 19 00-0040			304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt <small>(05 05 19 00-0003)</small>		
			Note: Includes nut and washer.		
05 05 19 00-0041	EA		1/4" Diameter x 1-3/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	15.08	
			<i>For >10 To 50, Deduct</i>	-0.63	
			<i>For >50 To 100, Deduct</i>	-1.32	
			<i>For >100, Deduct</i>	-2.63	
05 05 19 00-0042	EA		1/4" Diameter x 2-1/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	15.67	
			<i>For >10 To 50, Deduct</i>	-0.63	
			<i>For >50 To 100, Deduct</i>	-1.33	
			<i>For >100, Deduct</i>	-2.66	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0043	EA			1/4" Diameter x 3-1/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	16.39	
				<i>For >10 To 50, Deduct</i>	-0.64	
				<i>For >50 To 100, Deduct</i>	-1.38	
				<i>For >100, Deduct</i>	-2.75	
05 05 19 00-0044	EA			3/8" Diameter x 2-1/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	19.53	
				<i>For >10 To 50, Deduct</i>	-0.76	
				<i>For >50 To 100, Deduct</i>	-1.63	
				<i>For >100, Deduct</i>	-3.26	
05 05 19 00-0045	EA			3/8" Diameter x 2-3/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	20.04	
				<i>For >10 To 50, Deduct</i>	-0.76	
				<i>For >50 To 100, Deduct</i>	-1.64	
				<i>For >100, Deduct</i>	-3.29	
05 05 19 00-0046	EA			3/8" Diameter x 3" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	20.41	
				<i>For >10 To 50, Deduct</i>	-0.76	
				<i>For >50 To 100, Deduct</i>	-1.65	
				<i>For >100, Deduct</i>	-3.31	
05 05 19 00-0047	EA			3/8" Diameter x 5" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	23.20	
				<i>For >10 To 50, Deduct</i>	-0.76	
				<i>For >50 To 100, Deduct</i>	-1.72	
				<i>For >100, Deduct</i>	-3.44	
05 05 19 00-0048	EA			1/2" Diameter x 2-3/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	30.68	
				<i>For >10 To 50, Deduct</i>	-1.08	
				<i>For >50 To 100, Deduct</i>	-2.39	
				<i>For >100, Deduct</i>	-4.78	
05 05 19 00-0049	EA			1/2" Diameter x 3-3/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	31.65	
				<i>For >10 To 50, Deduct</i>	-1.08	
				<i>For >50 To 100, Deduct</i>	-2.42	
				<i>For >100, Deduct</i>	-4.83	
05 05 19 00-0050	EA			1/2" Diameter x 4-1/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	32.20	
				<i>For >10 To 50, Deduct</i>	-1.08	
				<i>For >50 To 100, Deduct</i>	-2.43	
				<i>For >100, Deduct</i>	-4.86	
05 05 19 00-0051	EA			1/2" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	34.74	
				<i>For >10 To 50, Deduct</i>	-1.08	
				<i>For >50 To 100, Deduct</i>	-2.49	
				<i>For >100, Deduct</i>	-4.99	
05 05 19 00-0052	EA			1/2" Diameter x 7" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	38.55	
				<i>For >10 To 50, Deduct</i>	-1.08	
				<i>For >50 To 100, Deduct</i>	-2.59	
				<i>For >100, Deduct</i>	-5.18	
05 05 19 00-0053	EA			5/8" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	45.01	
				<i>For >10 To 50, Deduct</i>	-1.34	
				<i>For >50 To 100, Deduct</i>	-3.13	
				<i>For >100, Deduct</i>	-6.26	
05 05 19 00-0054	EA			5/8" Diameter x 5" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	47.49	
				<i>For >10 To 50, Deduct</i>	-1.34	
				<i>For >50 To 100, Deduct</i>	-3.19	
				<i>For >100, Deduct</i>	-6.39	
05 05 19 00-0055	EA			5/8" Diameter x 6" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	50.17	
				<i>For >10 To 50, Deduct</i>	-1.34	
				<i>For >50 To 100, Deduct</i>	-3.26	
				<i>For >100, Deduct</i>	-6.52	
05 05 19 00-0056	EA			5/8" Diameter x 7" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	53.74	
				<i>For >10 To 50, Deduct</i>	-1.34	
				<i>For >50 To 100, Deduct</i>	-3.35	
				<i>For >100, Deduct</i>	-6.70	
05 05 19 00-0057	EA			5/8" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	69.39	
				<i>For >10 To 50, Deduct</i>	-1.34	
				<i>For >50 To 100, Deduct</i>	-3.74	
				<i>For >100, Deduct</i>	-7.48	
05 05 19 00-0058	EA			3/4" Diameter x 4-1/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	53.76	
				<i>For >10 To 50, Deduct</i>	-1.59	
				<i>For >50 To 100, Deduct</i>	-3.73	
				<i>For >100, Deduct</i>	-7.46	
05 05 19 00-0059	EA			3/4" Diameter x 4-3/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	58.80	
				<i>For >10 To 50, Deduct</i>	-1.59	
				<i>For >50 To 100, Deduct</i>	-3.86	
				<i>For >100, Deduct</i>	-7.71	
05 05 19 00-0060	EA			3/4" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	63.10	
				<i>For >10 To 50, Deduct</i>	-1.59	
				<i>For >50 To 100, Deduct</i>	-3.96	
				<i>For >100, Deduct</i>	-7.93	
05 05 19 00-0061	EA			3/4" Diameter x 6-1/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	63.63	
				<i>For >10 To 50, Deduct</i>	-1.59	
				<i>For >50 To 100, Deduct</i>	-3.98	
				<i>For >100, Deduct</i>	-7.95	
05 05 19 00-0062	EA			3/4" Diameter x 7" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	67.67	
				<i>For >10 To 50, Deduct</i>	-1.59	
				<i>For >50 To 100, Deduct</i>	-4.08	
				<i>For >100, Deduct</i>	-8.16	
05 05 19 00-0063	EA			3/4" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	78.15	
				<i>For >10 To 50, Deduct</i>	-1.59	
				<i>For >50 To 100, Deduct</i>	-4.34	
				<i>For >100, Deduct</i>	-8.68	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0064	EA		3/4" Diameter x 10" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	92.94	
			<i>For >10 To 50, Deduct</i>	-1.59	
			<i>For >50 To 100, Deduct</i>	-4.71	
			<i>For >100, Deduct</i>	-9.42	
05 05 19 00-0065	EA		7/8" Diameter x 8" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	92.90	
			<i>For >10 To 50, Deduct</i>	-1.73	
			<i>For >50 To 100, Deduct</i>	-4.91	
			<i>For >100, Deduct</i>	-9.82	
05 05 19 00-0066	EA		1" Diameter x 6" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	136.24	
			<i>For >10 To 50, Deduct</i>	-2.23	
			<i>For >50 To 100, Deduct</i>	-6.76	
			<i>For >100, Deduct</i>	-13.51	
05 05 19 00-0067	EA		1" Diameter x 9" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	158.12	
			<i>For >10 To 50, Deduct</i>	-2.23	
			<i>For >50 To 100, Deduct</i>	-7.30	
			<i>For >100, Deduct</i>	-14.61	
05 05 19 00-0068			316 Stainless Steel, Wedge Anchor Expansion Bolt <small>(05 05 19 00-0003)</small>		
			Note: Includes nut and washer.		
05 05 19 00-0069	EA		1/4" Diameter x 2-1/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	15.59	
			<i>For >10 To 50, Deduct</i>	-0.63	
			<i>For >50 To 100, Deduct</i>	-1.33	
			<i>For >100, Deduct</i>	-2.66	
05 05 19 00-0070	EA		1/4" Diameter x 3-1/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	16.62	
			<i>For >10 To 50, Deduct</i>	-0.64	
			<i>For >50 To 100, Deduct</i>	-1.38	
			<i>For >100, Deduct</i>	-2.76	
05 05 19 00-0071	EA		3/8" Diameter x 2-1/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	21.19	
			<i>For >10 To 50, Deduct</i>	-0.76	
			<i>For >50 To 100, Deduct</i>	-1.67	
			<i>For >100, Deduct</i>	-3.34	
05 05 19 00-0072	EA		3/8" Diameter x 2-3/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	22.07	
			<i>For >10 To 50, Deduct</i>	-0.76	
			<i>For >50 To 100, Deduct</i>	-1.69	
			<i>For >100, Deduct</i>	-3.39	
05 05 19 00-0073	EA		3/8" Diameter x 3" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	22.30	
			<i>For >10 To 50, Deduct</i>	-0.76	
			<i>For >50 To 100, Deduct</i>	-1.70	
			<i>For >100, Deduct</i>	-3.40	
05 05 19 00-0074	EA		3/8" Diameter x 5" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	26.50	
			<i>For >10 To 50, Deduct</i>	-0.76	
			<i>For >50 To 100, Deduct</i>	-1.80	
			<i>For >100, Deduct</i>	-3.61	
05 05 19 00-0075	EA		1/2" Diameter x 2-3/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	34.70	
			<i>For >10 To 50, Deduct</i>	-1.08	
			<i>For >50 To 100, Deduct</i>	-2.49	
			<i>For >100, Deduct</i>	-4.99	
05 05 19 00-0076	EA		1/2" Diameter x 3-3/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	37.13	
			<i>For >10 To 50, Deduct</i>	-1.08	
			<i>For >50 To 100, Deduct</i>	-2.55	
			<i>For >100, Deduct</i>	-5.11	
05 05 19 00-0077	EA		1/2" Diameter x 4-1/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	41.56	
			<i>For >10 To 50, Deduct</i>	-1.08	
			<i>For >50 To 100, Deduct</i>	-2.66	
			<i>For >100, Deduct</i>	-5.33	
05 05 19 00-0078	EA		1/2" Diameter x 5-1/2" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	42.67	
			<i>For >10 To 50, Deduct</i>	-1.08	
			<i>For >50 To 100, Deduct</i>	-2.69	
			<i>For >100, Deduct</i>	-5.38	
05 05 19 00-0079	EA		5/8" Diameter x 5" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	58.57	
			<i>For >10 To 50, Deduct</i>	-1.34	
			<i>For >50 To 100, Deduct</i>	-3.47	
			<i>For >100, Deduct</i>	-6.94	
05 05 19 00-0080	EA		5/8" Diameter x 7" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	59.90	
			<i>For >10 To 50, Deduct</i>	-1.34	
			<i>For >50 To 100, Deduct</i>	-3.50	
			<i>For >100, Deduct</i>	-7.01	
05 05 19 00-0081	EA		3/4" Diameter x 4-3/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	72.73	
			<i>For >10 To 50, Deduct</i>	-1.59	
			<i>For >50 To 100, Deduct</i>	-4.20	
			<i>For >100, Deduct</i>	-8.41	
05 05 19 00-0082	EA		3/4" Diameter x 5-1/2" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	78.26	
			<i>For >10 To 50, Deduct</i>	-1.59	
			<i>For >50 To 100, Deduct</i>	-4.34	
			<i>For >100, Deduct</i>	-8.69	
05 05 19 00-0083			Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt <small>(05 05 19 00-0003)</small>		
			Note: Includes nut and washer.		
05 05 19 00-0084	EA		1/2" Diameter x 2-3/4" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	27.46	
			<i>For >10 To 50, Deduct</i>	-1.08	
			<i>For >50 To 100, Deduct</i>	-2.31	
			<i>For >100, Deduct</i>	-4.62	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0085	EA			1/2" Diameter x 4-1/4" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt	28.98	
				<i>For >10 To 50, Deduct</i>	-1.08	
				<i>For >50 To 100, Deduct</i>	-2.35	
				<i>For >100, Deduct</i>	-4.70	
05 05 19 00-0086	EA			1/2" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt	30.51	
				<i>For >10 To 50, Deduct</i>	-1.08	
				<i>For >50 To 100, Deduct</i>	-2.39	
				<i>For >100, Deduct</i>	-4.78	
05 05 19 00-0087	EA			1/2" Diameter x 7" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	31.27	
				<i>For >10 To 50, Deduct</i>	-1.08	
				<i>For >50 To 100, Deduct</i>	-2.41	
				<i>For >100, Deduct</i>	-4.81	
05 05 19 00-0088	EA			5/8" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt	37.71	
				<i>For >10 To 50, Deduct</i>	-1.34	
				<i>For >50 To 100, Deduct</i>	-2.95	
				<i>For >100, Deduct</i>	-5.90	
05 05 19 00-0089	EA			5/8" Diameter x 6" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	35.88	
				<i>For >10 To 50, Deduct</i>	-1.34	
				<i>For >50 To 100, Deduct</i>	-2.90	
				<i>For >100, Deduct</i>	-5.81	
05 05 19 00-0090	EA			3/4" Diameter x 4-3/4" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt	48.90	
				<i>For >10 To 50, Deduct</i>	-1.59	
				<i>For >50 To 100, Deduct</i>	-3.61	
				<i>For >100, Deduct</i>	-7.22	
05 05 19 00-0091	EA			3/4" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt	50.58	
				<i>For >10 To 50, Deduct</i>	-1.59	
				<i>For >50 To 100, Deduct</i>	-3.65	
				<i>For >100, Deduct</i>	-7.30	
05 05 19 00-0092	EA			3/4" Diameter x 8-1/2" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt	58.82	
				<i>For >10 To 50, Deduct</i>	-1.59	
				<i>For >50 To 100, Deduct</i>	-3.86	
				<i>For >100, Deduct</i>	-7.71	
05 05 19 00-0093	EA			1" Diameter x 6" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	62.25	
				<i>For >10 To 50, Deduct</i>	-2.23	
				<i>For >50 To 100, Deduct</i>	-4.91	
				<i>For >100, Deduct</i>	-9.81	
05 05 19 00-0094	EA			1" Diameter x 9" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	67.00	
				<i>For >10 To 50, Deduct</i>	-2.23	
				<i>For >50 To 100, Deduct</i>	-5.03	
				<i>For >100, Deduct</i>	-10.05	
05 05 19 00-0095	EA			1" Diameter x 12" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	71.70	
				<i>For >10 To 50, Deduct</i>	-2.23	
				<i>For >50 To 100, Deduct</i>	-5.14	
				<i>For >100, Deduct</i>	-10.29	
05 05 19 00-0096				Concrete Sleeve Anchors <small>(05 05 19 00-0002)</small>		
05 05 19 00-0097				Zinc Plated Steel, Concrete Sleeve Anchors <small>(05 05 19 00-0096)</small>		
				Note: Includes nut and washer.		
05 05 19 00-0098	EA			1/4" Diameter x 5/8" Length, Zinc Plated Steel, Concrete Sleeve Anchor	13.46	
				<i>For >10 To 50, Deduct</i>	-0.64	
				<i>For >50 To 100, Deduct</i>	-1.30	
				<i>For >100, Deduct</i>	-2.59	
05 05 19 00-0099	EA			1/4" Diameter x 1-3/8" Length, Zinc Plated Steel, Concrete Sleeve Anchor	13.66	
				<i>For >10 To 50, Deduct</i>	-0.64	
				<i>For >50 To 100, Deduct</i>	-1.30	
				<i>For >100, Deduct</i>	-2.60	
05 05 19 00-0100	EA			1/4" Diameter x 2-1/4" Length, Zinc Plated Steel, Concrete Sleeve Anchor	13.90	
				<i>For >10 To 50, Deduct</i>	-0.64	
				<i>For >50 To 100, Deduct</i>	-1.31	
				<i>For >100, Deduct</i>	-2.62	
05 05 19 00-0101	EA			5/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Concrete Sleeve Anchor	14.18	
				<i>For >10 To 50, Deduct</i>	-0.67	
				<i>For >50 To 100, Deduct</i>	-1.36	
				<i>For >100, Deduct</i>	-2.73	
05 05 19 00-0102	EA			5/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Concrete Sleeve Anchor	14.36	
				<i>For >10 To 50, Deduct</i>	-0.67	
				<i>For >50 To 100, Deduct</i>	-1.37	
				<i>For >100, Deduct</i>	-2.73	
05 05 19 00-0103	EA			3/8" Diameter x 1-7/8" Length, Zinc Plated Steel, Concrete Sleeve Anchor	16.07	
				<i>For >10 To 50, Deduct</i>	-0.76	
				<i>For >50 To 100, Deduct</i>	-1.54	
				<i>For >100, Deduct</i>	-3.09	
05 05 19 00-0104	EA			3/8" Diameter x 3" Length, Zinc Plated Steel, Concrete Sleeve Anchor	16.40	
				<i>For >10 To 50, Deduct</i>	-0.76	
				<i>For >50 To 100, Deduct</i>	-1.55	
				<i>For >100, Deduct</i>	-3.10	
05 05 19 00-0105	EA			3/8" Diameter x 4" Length, Zinc Plated Steel, Concrete Sleeve Anchor	16.72	
				<i>For >10 To 50, Deduct</i>	-0.76	
				<i>For >50 To 100, Deduct</i>	-1.56	
				<i>For >100, Deduct</i>	-3.12	
05 05 19 00-0106	EA			1/2" Diameter x 2-1/4" Length, Zinc Plated Steel, Concrete Sleeve Anchor	23.19	
				<i>For >10 To 50, Deduct</i>	-1.08	
				<i>For >50 To 100, Deduct</i>	-2.20	
				<i>For >100, Deduct</i>	-4.41	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0107 EA 1/2" Diameter x 3" Length, Zinc Plated Steel, Concrete Sleeve Anchor	23.61	
For >10 To 50, Deduct	-1.08	
For >50 To 100, Deduct	-2.21	
For >100, Deduct	-4.43	
05 05 19 00-0108 EA 1/2" Diameter x 4" Length, Zinc Plated Steel, Concrete Sleeve Anchor	23.97	
For >10 To 50, Deduct	-1.08	
For >50 To 100, Deduct	-2.22	
For >100, Deduct	-4.44	
05 05 19 00-0109 EA 1/2" Diameter x 6" Length, Zinc Plated Steel, Concrete Sleeve Anchor	24.40	
For >10 To 50, Deduct	-1.08	
For >50 To 100, Deduct	-2.23	
For >100, Deduct	-4.47	
05 05 19 00-0110 EA 5/8" Diameter x 2-1/4" Length, Zinc Plated Steel, Concrete Sleeve Anchor	29.13	
For >10 To 50, Deduct	-1.34	
For >50 To 100, Deduct	-2.73	
For >100, Deduct	-5.47	
05 05 19 00-0111 EA 5/8" Diameter x 3" Length, Zinc Plated Steel, Concrete Sleeve Anchor	29.76	
For >10 To 50, Deduct	-1.34	
For >50 To 100, Deduct	-2.75	
For >100, Deduct	-5.50	
05 05 19 00-0112 EA 5/8" Diameter x 4-1/4" Length, Zinc Plated Steel, Concrete Sleeve Anchor	30.24	
For >10 To 50, Deduct	-1.34	
For >50 To 100, Deduct	-2.76	
For >100, Deduct	-5.52	
05 05 19 00-0113 EA 5/8" Diameter x 6" Length, Zinc Plated Steel, Concrete Sleeve Anchor	31.61	
For >10 To 50, Deduct	-1.34	
For >50 To 100, Deduct	-2.80	
For >100, Deduct	-5.59	
05 05 19 00-0114 EA 3/4" Diameter x 2-1/2" Length, Zinc Plated Steel, Concrete Sleeve Anchor	35.82	
For >10 To 50, Deduct	-1.59	
For >50 To 100, Deduct	-3.28	
For >100, Deduct	-6.56	
05 05 19 00-0115 EA 3/4" Diameter x 4-1/4" Length, Zinc Plated Steel, Concrete Sleeve Anchor	37.00	
For >10 To 50, Deduct	-1.59	
For >50 To 100, Deduct	-3.31	
For >100, Deduct	-6.62	
05 05 19 00-0116 EA 3/4" Diameter x 5-1/2" Length, Zinc Plated Steel, Concrete Sleeve Anchor	38.07	
For >10 To 50, Deduct	-1.59	
For >50 To 100, Deduct	-3.34	
For >100, Deduct	-6.68	
05 05 19 00-0117 EA 3/4" Diameter x 6-1/4" Length, Zinc Plated Steel, Concrete Sleeve Anchor	39.76	
For >10 To 50, Deduct	-1.59	
For >50 To 100, Deduct	-3.38	
For >100, Deduct	-6.76	
05 05 19 00-0118 304/18-8 Stainless Steel, Concrete Sleeve Anchors (05 05 19 00-0096)		
Note: Includes nut and washer.		
05 05 19 00-0119 EA 1/4" Diameter x 1-3/8" Length, 304/18-8 Stainless Steel, Concrete Sleeve Anchor	15.98	
For >10 To 50, Deduct	-0.64	
For >50 To 100, Deduct	-1.36	
For >100, Deduct	-2.72	
05 05 19 00-0120 EA 3/8" Diameter x 1-7/8" Length, 304/18-8 Stainless Steel, Concrete Sleeve Anchor	21.16	
For >10 To 50, Deduct	-0.76	
For >50 To 100, Deduct	-1.67	
For >100, Deduct	-3.34	
05 05 19 00-0121 EA 3/8" Diameter x 3" Length, 304/18-8 Stainless Steel, Concrete Sleeve Anchor	23.52	
For >10 To 50, Deduct	-0.76	
For >50 To 100, Deduct	-1.73	
For >100, Deduct	-3.46	
05 05 19 00-0122 EA 1/2" Diameter x 2-1/4" Length, 304/18-8 Stainless Steel, Concrete Sleeve Anchor	31.72	
For >10 To 50, Deduct	-1.08	
For >50 To 100, Deduct	-2.42	
For >100, Deduct	-4.83	
05 05 19 00-0123 EA 1/2" Diameter x 4" Length, 304/18-8 Stainless Steel, Concrete Sleeve Anchor	35.96	
For >10 To 50, Deduct	-1.08	
For >50 To 100, Deduct	-2.52	
For >100, Deduct	-5.04	
05 05 19 00-0124 EA 5/8" Diameter x 4-1/4" Length, 304/18-8 Stainless Steel, Concrete Sleeve Anchor	49.77	
For >10 To 50, Deduct	-1.34	
For >50 To 100, Deduct	-3.25	
For >100, Deduct	-6.50	
05 05 19 00-0125 Concrete Strike Anchors (05 05 19 00-0002)		
Note: Includes nut and washer.		
05 05 19 00-0126 EA 1/4" Diameter x 1-3/4" Length, Zinc Plated Steel, Concrete Strike Anchor	14.42	
For >10 To 50, Deduct	-0.64	
For >50 To 100, Deduct	-1.32	
For >100, Deduct	-2.64	
05 05 19 00-0127 EA 1/4" Diameter x 2-3/8" Length, Zinc Plated Steel, Concrete Strike Anchor	14.76	
For >10 To 50, Deduct	-0.64	
For >50 To 100, Deduct	-1.33	
For >100, Deduct	-2.66	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0128 EA 5/16" Diameter x 2-3/4" Length, Zinc Plated Steel, Concrete Strike Anchor	15.37	
<i>For >10 To 50, Deduct</i>	-0.67	
<i>For >50 To 100, Deduct</i>	-1.39	
<i>For >100, Deduct</i>	-2.78	
05 05 19 00-0129 EA 5/16" Diameter x 4" Length, Zinc Plated Steel, Concrete Strike Anchor	16.75	
<i>For >10 To 50, Deduct</i>	-0.67	
<i>For >50 To 100, Deduct</i>	-1.43	
<i>For >100, Deduct</i>	-2.85	
05 05 19 00-0130 EA 3/8" Diameter x 2-3/8" Length, Zinc Plated Steel, Concrete Strike Anchor	17.57	
<i>For >10 To 50, Deduct</i>	-0.76	
<i>For >50 To 100, Deduct</i>	-1.58	
<i>For >100, Deduct</i>	-3.16	
05 05 19 00-0131 EA 3/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Concrete Strike Anchor	18.60	
<i>For >10 To 50, Deduct</i>	-0.76	
<i>For >50 To 100, Deduct</i>	-1.61	
<i>For >100, Deduct</i>	-3.21	
05 05 19 00-0132 EA 3/8" Diameter x 5" Length, Zinc Plated Steel, Concrete Strike Anchor	19.40	
<i>For >10 To 50, Deduct</i>	-0.76	
<i>For >50 To 100, Deduct</i>	-1.63	
<i>For >100, Deduct</i>	-3.25	
05 05 19 00-0133 EA 1/2" Diameter x 2-3/4" Length, Zinc Plated Steel, Concrete Strike Anchor	25.75	
<i>For >10 To 50, Deduct</i>	-1.08	
<i>For >50 To 100, Deduct</i>	-2.27	
<i>For >100, Deduct</i>	-4.53	
05 05 19 00-0134 EA 1/2" Diameter x 3-1/2" Length, Zinc Plated Steel, Concrete Strike Anchor	26.37	
<i>For >10 To 50, Deduct</i>	-1.08	
<i>For >50 To 100, Deduct</i>	-2.28	
<i>For >100, Deduct</i>	-4.56	
05 05 19 00-0135 EA 1/2" Diameter x 4-3/4" Length, Zinc Plated Steel, Concrete Strike Anchor	28.19	
<i>For >10 To 50, Deduct</i>	-1.08	
<i>For >50 To 100, Deduct</i>	-2.33	
<i>For >100, Deduct</i>	-4.66	
05 05 19 00-0136 EA 1/2" Diameter x 6" Length, Zinc Plated Steel, Concrete Strike Anchor	30.53	
<i>For >10 To 50, Deduct</i>	-1.08	
<i>For >50 To 100, Deduct</i>	-2.39	
<i>For >100, Deduct</i>	-4.77	
05 05 19 00-0137 EA 5/8" Diameter x 4" Length, Zinc Plated Steel, Concrete Strike Anchor	34.57	
<i>For >10 To 50, Deduct</i>	-1.34	
<i>For >50 To 100, Deduct</i>	-2.87	
<i>For >100, Deduct</i>	-5.74	
05 05 19 00-0138 EA 5/8" Diameter x 4-3/4" Length, Zinc Plated Steel, Concrete Strike Anchor	36.74	
<i>For >10 To 50, Deduct</i>	-1.34	
<i>For >50 To 100, Deduct</i>	-2.92	
<i>For >100, Deduct</i>	-5.85	
05 05 19 00-0139 EA 5/8" Diameter x 6" Length, Zinc Plated Steel, Concrete Strike Anchor	38.66	
<i>For >10 To 50, Deduct</i>	-1.34	
<i>For >50 To 100, Deduct</i>	-2.97	
<i>For >100, Deduct</i>	-5.94	
05 05 19 00-0140 EA 3/4" Diameter x 5" Length, Zinc Plated Steel, Concrete Strike Anchor	44.86	
<i>For >10 To 50, Deduct</i>	-1.59	
<i>For >50 To 100, Deduct</i>	-3.51	
<i>For >100, Deduct</i>	-7.02	
05 05 19 00-0141 EA 3/4" Diameter x 6" Length, Zinc Plated Steel, Concrete Strike Anchor	46.89	
<i>For >10 To 50, Deduct</i>	-1.59	
<i>For >50 To 100, Deduct</i>	-3.56	
<i>For >100, Deduct</i>	-7.12	
 05 05 19 00-0142 Multi-Set Drop-In Anchors <small>(05 05 19 00-0002)</small>		
05 05 19 00-0143 Zinc Plated Steel, Multi-Set Drop-In Anchors <small>(05 05 19 00-0142)</small>		
Note: Excludes bolt, nut and washer.		
05 05 19 00-0144 EA 1/4" Bolt Diameter, Zinc Plated Steel, Multi-Set Drop-In Anchor	18.67	
<i>For >10 To 50, Deduct</i>	-0.89	
<i>For >50 To 100, Deduct</i>	-1.80	
<i>For >100, Deduct</i>	-3.61	
05 05 19 00-0145 EA 3/8" Bolt Diameter, Zinc Plated Steel, Multi-Set Drop-In Anchor	22.86	
<i>For >10 To 50, Deduct</i>	-1.09	
<i>For >50 To 100, Deduct</i>	-2.20	
<i>For >100, Deduct</i>	-4.40	
05 05 19 00-0146 EA 1/2" Bolt Diameter, Zinc Plated Steel, Multi-Set Drop-In Anchor	28.03	
<i>For >10 To 50, Deduct</i>	-1.28	
<i>For >50 To 100, Deduct</i>	-2.62	
<i>For >100, Deduct</i>	-5.24	
05 05 19 00-0147 EA 5/8" Bolt Diameter, Zinc Plated Steel, Multi-Set Drop-In Anchor	31.95	
<i>For >10 To 50, Deduct</i>	-1.41	
<i>For >50 To 100, Deduct</i>	-2.91	
<i>For >100, Deduct</i>	-5.82	
05 05 19 00-0148 EA 3/4" Bolt Diameter, Zinc Plated Steel, Multi-Set Drop-In Anchor	38.56	
<i>For >10 To 50, Deduct</i>	-1.60	
<i>For >50 To 100, Deduct</i>	-3.36	
<i>For >100, Deduct</i>	-6.73	
 05 05 19 00-0149 304/18-8 Stainless Steel, Multi-Set Drop-In Anchors <small>(05 05 19 00-0142)</small>		
Note: Excludes bolt, nut and washer.		

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0150 EA 1/4" Bolt Diameter, 304/18-8 Stainless Steel, Multi-Set Drop-In Anchor.....	23.77	
For >10 To 50, Deduct	-0.89	
For >50 To 100, Deduct	-1.93	
For >100, Deduct	-3.86	
05 05 19 00-0151 EA 3/8" Bolt Diameter, 304/18-8 Stainless Steel, Multi-Set Drop-In Anchor.....	32.40	
For >10 To 50, Deduct	-1.09	
For >50 To 100, Deduct	-2.44	
For >100, Deduct	-4.88	
05 05 19 00-0152 EA 1/2" Bolt Diameter, 304/18-8 Stainless Steel, Multi-Set Drop-In Anchor.....	40.77	
For >10 To 50, Deduct	-1.28	
For >50 To 100, Deduct	-2.94	
For >100, Deduct	-5.88	
05 05 19 00-0153 EA 5/8" Bolt Diameter, 304/18-8 Stainless Steel, Multi-Set Drop-In Anchor.....	52.45	
For >10 To 50, Deduct	-1.41	
For >50 To 100, Deduct	-3.42	
For >100, Deduct	-6.84	
05 05 19 00-0154 EA 3/4" Bolt Diameter, 304/18-8 Stainless Steel, Multi-Set Drop-In Anchor.....	73.80	
For >10 To 50, Deduct	-1.60	
For >50 To 100, Deduct	-4.25	
For >100, Deduct	-8.49	
05 05 19 00-0155 Single Bolt Expansion Anchors (05 05 19 00-0002)		
Note: Excludes bolt, nut and washer.		
05 05 19 00-0156 EA 1/4" Bolt Diameter, Zinc Plated Steel, Single Bolt Expansion Anchor.....	13.75	
For >10 To 50, Deduct	-0.64	
For >50 To 100, Deduct	-1.30	
For >100, Deduct	-2.61	
05 05 19 00-0157 EA 5/16" Bolt Diameter, Zinc Plated Steel, Single Bolt Expansion Anchor.....	14.72	
For >10 To 50, Deduct	-0.67	
For >50 To 100, Deduct	-1.38	
For >100, Deduct	-2.75	
05 05 19 00-0158 EA 3/8" Bolt Diameter, Zinc Plated Steel, Single Bolt Expansion Anchor.....	16.65	
For >10 To 50, Deduct	-0.76	
For >50 To 100, Deduct	-1.56	
For >100, Deduct	-3.12	
05 05 19 00-0159 EA 1/2" Bolt Diameter, Zinc Plated Steel, Single Bolt Expansion Anchor.....	24.40	
For >10 To 50, Deduct	-1.08	
For >50 To 100, Deduct	-2.23	
For >100, Deduct	-4.47	
05 05 19 00-0160 EA 5/8" Bolt Diameter, Zinc Plated Steel, Single Bolt Expansion Anchor.....	34.31	
For >10 To 50, Deduct	-1.34	
For >50 To 100, Deduct	-2.86	
For >100, Deduct	-5.73	
05 05 19 00-0161 EA 3/4" Bolt Diameter, Zinc Plated Steel, Single Bolt Expansion Anchor.....	41.46	
For >10 To 50, Deduct	-1.59	
For >50 To 100, Deduct	-3.42	
For >100, Deduct	-6.85	
05 05 19 00-0162 Concrete Lag Shield Anchors (05 05 19 00-0002)		
Note: Excludes lag bolt and washer.		
05 05 19 00-0163 EA 1/4" Bolt Diameter, Zinc Plated Steel, Concrete Lag Shield Anchor.....	13.84	
For >10 To 50, Deduct	-0.64	
For >50 To 100, Deduct	-1.31	
For >100, Deduct	-2.61	
05 05 19 00-0164 EA 5/16" Bolt Diameter, Zinc Plated Steel, Concrete Lag Shield Anchor.....	16.45	
For >10 To 50, Deduct	-0.76	
For >50 To 100, Deduct	-1.55	
For >100, Deduct	-3.11	
05 05 19 00-0165 EA 3/8" Bolt Diameter, Zinc Plated Steel, Concrete Lag Shield Anchor.....	17.28	
For >10 To 50, Deduct	-0.76	
For >50 To 100, Deduct	-1.57	
For >100, Deduct	-3.15	
05 05 19 00-0166 EA 1/2" Bolt Diameter, Zinc Plated Steel, Concrete Lag Shield Anchor.....	24.34	
For >10 To 50, Deduct	-1.08	
For >50 To 100, Deduct	-2.23	
For >100, Deduct	-4.46	
05 05 19 00-0167 EA 5/8" Bolt Diameter, Zinc Plated Steel, Concrete Lag Shield Anchor.....	33.01	
For >10 To 50, Deduct	-1.34	
For >50 To 100, Deduct	-2.83	
For >100, Deduct	-5.66	
05 05 19 00-0168 EA 3/4" Bolt Diameter, Zinc Plated Steel, Concrete Lag Shield Anchor.....	36.78	
For >10 To 50, Deduct	-1.59	
For >50 To 100, Deduct	-3.31	
For >100, Deduct	-6.61	
05 05 19 00-0169 Chemical And Adhesive Anchors (05 05 19 00-0001)		
05 05 19 00-0170 Chemically Adhered Anchor Rods (05 05 19 00-0169)		
Note: Includes drilling hole, injected adhesive or pre-placed adhesive cartridge, nut and washer. Zinc coated carbon steel.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0171 EA 1/4" x 1-9/16" Long Chemically Adhered Anchor Rod	17.92	
<i>For >10 To 50, Deduct</i>	-0.70	
<i>For >50 To 100, Deduct</i>	-1.50	
<i>For >100, Deduct</i>	-3.01	
05 05 19 00-0172 EA 5/16" x 2-3/8" Long Chemically Adhered Anchor Rod	20.95	
<i>For >10 To 50, Deduct</i>	-0.77	
<i>For >50 To 100, Deduct</i>	-1.68	
<i>For >100, Deduct</i>	-3.35	
05 05 19 00-0173 EA 3/8" x 2-3/4" Long Chemically Adhered Anchor Rod	25.99	
<i>For >10 To 50, Deduct</i>	-0.96	
<i>For >50 To 100, Deduct</i>	-2.09	
<i>For >100, Deduct</i>	-4.18	
05 05 19 00-0174 EA 1/2" x 3-11/16" Long Chemically Adhered Anchor Rod	30.60	
<i>For >10 To 50, Deduct</i>	-1.08	
<i>For >50 To 100, Deduct</i>	-2.39	
<i>For >100, Deduct</i>	-4.78	
05 05 19 00-0175 EA 1/2" x 5-1/2" Long Chemically Adhered Anchor Rod	32.64	
<i>For >10 To 50, Deduct</i>	-1.08	
<i>For >50 To 100, Deduct</i>	-2.44	
<i>For >100, Deduct</i>	-4.88	
05 05 19 00-0176 EA 5/8" x 7" Long Chemically Adhered Anchor Rod.....	40.39	
<i>For >10 To 50, Deduct</i>	-1.34	
<i>For >50 To 100, Deduct</i>	-3.01	
<i>For >100, Deduct</i>	-6.03	
05 05 19 00-0177 EA 3/4" x 9-1/2" Long Chemically Adhered Anchor Rod	52.98	
<i>For >10 To 50, Deduct</i>	-1.59	
<i>For >50 To 100, Deduct</i>	-3.71	
<i>For >100, Deduct</i>	-7.42	
05 05 19 00-0178 EA 7/8" x 10" Long Chemically Adhered Anchor Rod.....	63.36	
<i>For >10 To 50, Deduct</i>	-1.72	
<i>For >50 To 100, Deduct</i>	-4.17	
<i>For >100, Deduct</i>	-8.33	
05 05 19 00-0179 EA 1" x 11-3/4" Long Chemically Adhered Anchor Rod	87.00	
<i>For >10 To 50, Deduct</i>	-2.23	
<i>For >50 To 100, Deduct</i>	-5.53	
<i>For >100, Deduct</i>	-11.05	
05 05 19 00-0180 EA 1-1/4" x 14" Long Chemically Adhered Anchor Rod	126.25	
<i>For >10 To 50, Deduct</i>	-2.82	
<i>For >50 To 100, Deduct</i>	-7.38	
<i>For >100, Deduct</i>	-14.76	
05 05 19 00-0181 Chemical Adhesives For Bolts, Dowels Or Threaded Rod <small>(05 05 19 00-0169)</small>		
<small>Note: Injected or drop in cartridge. Sizes listed are for the diameter of the bolt, dowel or rod to be anchored. Includes drilling. Drill a hole 1/16" to 1/4" larger than the diameter of the thread and a depth a minimum of 4-1/2 times the diameter of the bolt. Excludes bolt, dowel or rod.</small>		
05 05 19 00-0182 EA 1/4" Chemical Adhesive For Bolt Or Threaded Rod	14.56	
<i>For >10 To 50, Deduct</i>	-0.70	
<i>For >50 To 100, Deduct</i>	-1.42	
<i>For >100, Deduct</i>	-2.84	
05 05 19 00-0183 EA 5/16" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	15.95	
<i>For >10 To 50, Deduct</i>	-0.77	
<i>For >50 To 100, Deduct</i>	-1.55	
<i>For >100, Deduct</i>	-3.10	
05 05 19 00-0184 EA 3/8" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	18.72	
<i>For >10 To 50, Deduct</i>	-0.90	
<i>For >50 To 100, Deduct</i>	-1.81	
<i>For >100, Deduct</i>	-3.63	
05 05 19 00-0185 EA 1/2" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	22.76	
<i>For >10 To 50, Deduct</i>	-1.08	
<i>For >50 To 100, Deduct</i>	-2.19	
<i>For >100, Deduct</i>	-4.38	
05 05 19 00-0186 EA 5/8" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	25.88	
<i>For >10 To 50, Deduct</i>	-1.16	
<i>For >50 To 100, Deduct</i>	-2.38	
<i>For >100, Deduct</i>	-4.77	
05 05 19 00-0187 EA 3/4" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	33.17	
<i>For >10 To 50, Deduct</i>	-1.42	
<i>For >50 To 100, Deduct</i>	-2.96	
<i>For >100, Deduct</i>	-5.92	
05 05 19 00-0188 EA 7/8" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	36.80	
<i>For >10 To 50, Deduct</i>	-1.52	
<i>For >50 To 100, Deduct</i>	-3.21	
<i>For >100, Deduct</i>	-6.41	
05 05 19 00-0189 EA 1" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	46.24	
<i>For >10 To 50, Deduct</i>	-1.84	
<i>For >50 To 100, Deduct</i>	-3.91	
<i>For >100, Deduct</i>	-7.82	
05 05 19 00-0190 EA 1-1/8" Chemical Adhesive For Bolt, Dowel Or Threaded Rod	51.51	
<i>For >10 To 50, Deduct</i>	-1.99	
<i>For >50 To 100, Deduct</i>	-4.27	
<i>For >100, Deduct</i>	-8.55	
05 05 19 00-0191 EA 1-1/4" Chemical Adhesive For Bolt, Dowel Or Threaded Rod	60.27	
<i>For >10 To 50, Deduct</i>	-2.25	
<i>For >50 To 100, Deduct</i>	-4.89	
<i>For >100, Deduct</i>	-9.77	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0192	EA		1-3/8" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	68.16	
			<i>For >10 To 50, Deduct</i>	-2.46	
			<i>For >50 To 100, Deduct</i>	-5.39	
			<i>For >100, Deduct</i>	-10.78	
05 05 19 00-0193	EA		1-1/2" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	78.84	
			<i>For >10 To 50, Deduct</i>	-2.68	
			<i>For >50 To 100, Deduct</i>	-5.98	
			<i>For >100, Deduct</i>	-11.97	
05 05 19 00-0194	EA		1-3/4" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	100.86	
			<i>For >10 To 50, Deduct</i>	-3.14	
			<i>For >50 To 100, Deduct</i>	-7.24	
			<i>For >100, Deduct</i>	-14.47	
05 05 19 00-0195	EA		2" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	151.91	
			<i>For >10 To 50, Deduct</i>	-3.80	
			<i>For >50 To 100, Deduct</i>	-9.49	
			<i>For >100, Deduct</i>	-18.98	
05 05 19 00-0196			Grout Concrete Anchor Bolt Or Threaded Rod (05 05 19 00-0169)		
05 05 19 00-0197	EA		Grout Concrete Anchor Bolt or Threaded Rod.....	4.76	
			<i>For >10 To 50, Deduct</i>	-0.23	
			<i>For >50 To 100, Deduct</i>	-0.46	
			<i>For >100, Deduct</i>	-0.92	
05 05 19 00-0198			Other Concrete And Masonry Anchors (05 05 19 00-0001)		
05 05 19 00-0199			Tapcon Masonry Screws (05 05 19 00-0198)		
			Note: Includes drilling. Countersunk or hex head.		
05 05 19 00-0200	EA		3/16" x 1-1/4" Tapcon Masonry Screw.....	13.19	
			<i>For >10 To 50, Deduct</i>	-0.64	
			<i>For >50 To 100, Deduct</i>	-1.29	
			<i>For >100, Deduct</i>	-2.58	
05 05 19 00-0201	EA		3/16" x 2-1/4" Tapcon Masonry Screw.....	13.29	
			<i>For >10 To 50, Deduct</i>	-0.64	
			<i>For >50 To 100, Deduct</i>	-1.29	
			<i>For >100, Deduct</i>	-2.59	
05 05 19 00-0202	EA		3/16" x 3-1/4" Tapcon Masonry Screw.....	13.51	
			<i>For >10 To 50, Deduct</i>	-0.64	
			<i>For >50 To 100, Deduct</i>	-1.30	
			<i>For >100, Deduct</i>	-2.60	
05 05 19 00-0203	EA		1/4" x 1-1/4" Tapcon Masonry Screw.....	13.31	
			<i>For >10 To 50, Deduct</i>	-0.64	
			<i>For >50 To 100, Deduct</i>	-1.29	
			<i>For >100, Deduct</i>	-2.59	
05 05 19 00-0204	EA		1/4" x 2-1/4" Tapcon Masonry Screw.....	13.43	
			<i>For >10 To 50, Deduct</i>	-0.64	
			<i>For >50 To 100, Deduct</i>	-1.30	
			<i>For >100, Deduct</i>	-2.59	
05 05 19 00-0205	EA		1/4" x 3-1/4" Tapcon Masonry Screw.....	13.69	
			<i>For >10 To 50, Deduct</i>	-0.64	
			<i>For >50 To 100, Deduct</i>	-1.30	
			<i>For >100, Deduct</i>	-2.61	
05 05 19 00-0206			Large Diameter, Self-Threading Concrete Fasteners (05 05 19 00-0199)		
			Note: Includes drilling. Zinc plated.		
05 05 19 00-0207	EA		3/8" x 1-3/4", Large Diameter, Self-Threading Concrete Fastener.....	14.15	
			<i>For >10 To 50, Deduct</i>	-0.64	
			<i>For >50 To 100, Deduct</i>	-1.31	
			<i>For >100, Deduct</i>	-2.63	
05 05 19 00-0208	EA		3/8" x 2-1/2", Large Diameter, Self-Threading Concrete Fastener.....	14.63	
			<i>For >10 To 50, Deduct</i>	-0.64	
			<i>For >50 To 100, Deduct</i>	-1.33	
			<i>For >100, Deduct</i>	-2.65	
05 05 19 00-0209	EA		3/8" x 3", Large Diameter, Self-Threading Concrete Fastener.....	14.76	
			<i>For >10 To 50, Deduct</i>	-0.64	
			<i>For >50 To 100, Deduct</i>	-1.33	
			<i>For >100, Deduct</i>	-2.66	
05 05 19 00-0210	EA		3/8" x 4", Large Diameter, Self-Threading Concrete Fastener.....	14.99	
			<i>For >10 To 50, Deduct</i>	-0.64	
			<i>For >50 To 100, Deduct</i>	-1.34	
			<i>For >100, Deduct</i>	-2.67	
05 05 19 00-0211	EA		3/8" x 5", Large Diameter, Self-Threading Concrete Fastener.....	15.19	
			<i>For >10 To 50, Deduct</i>	-0.64	
			<i>For >50 To 100, Deduct</i>	-1.34	
			<i>For >100, Deduct</i>	-2.68	
05 05 19 00-0212	EA		1/2" x 3", Large Diameter, Self-Threading Concrete Fastener.....	15.60	
			<i>For >10 To 50, Deduct</i>	-0.64	
			<i>For >50 To 100, Deduct</i>	-1.35	
			<i>For >100, Deduct</i>	-2.70	
05 05 19 00-0213	EA		1/2" x 4", Large Diameter, Self-Threading Concrete Fastener.....	16.12	
			<i>For >10 To 50, Deduct</i>	-0.64	
			<i>For >50 To 100, Deduct</i>	-1.36	
			<i>For >100, Deduct</i>	-2.73	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0214 EA 1/2" x 5", Large Diameter, Self-Threading Concrete Fastener.....	16.59	
<i>For >10 To 50, Deduct</i>	-0.64	
<i>For >50 To 100, Deduct</i>	-1.38	
<i>For >100, Deduct</i>	-2.75	
05 05 19 00-0215 EA 1/2" x 6", Large Diameter, Self-Threading Concrete Fastener.....	17.92	
<i>For >10 To 50, Deduct</i>	-0.64	
<i>For >50 To 100, Deduct</i>	-1.41	
<i>For >100, Deduct</i>	-2.82	
05 05 19 00-0216 EA 5/8" x 3", Large Diameter, Self-Threading Concrete Fastener.....	18.08	
<i>For >10 To 50, Deduct</i>	-0.64	
<i>For >50 To 100, Deduct</i>	-1.41	
<i>For >100, Deduct</i>	-2.83	
05 05 19 00-0217 EA 5/8" x 4", Large Diameter, Self-Threading Concrete Fastener.....	18.89	
<i>For >10 To 50, Deduct</i>	-0.64	
<i>For >50 To 100, Deduct</i>	-1.43	
<i>For >100, Deduct</i>	-2.87	
05 05 19 00-0218 EA 5/8" x 5", Large Diameter, Self-Threading Concrete Fastener.....	19.72	
<i>For >10 To 50, Deduct</i>	-0.64	
<i>For >50 To 100, Deduct</i>	-1.45	
<i>For >100, Deduct</i>	-2.91	
05 05 19 00-0219 EA 5/8" x 6", Large Diameter, Self-Threading Concrete Fastener.....	20.26	
<i>For >10 To 50, Deduct</i>	-0.64	
<i>For >50 To 100, Deduct</i>	-1.47	
<i>For >100, Deduct</i>	-2.93	
05 05 19 00-0220 EA 3/4" x 4-1/2", Large Diameter, Self-Threading Concrete Fastener.....	20.02	
<i>For >10 To 50, Deduct</i>	-0.64	
<i>For >50 To 100, Deduct</i>	-1.46	
<i>For >100, Deduct</i>	-2.92	
05 05 19 00-0221 EA 3/4" x 5-1/2", Large Diameter, Self-Threading Concrete Fastener.....	20.79	
<i>For >10 To 50, Deduct</i>	-0.64	
<i>For >50 To 100, Deduct</i>	-1.48	
<i>For >100, Deduct</i>	-2.96	
05 05 19 00-0222 EA 3/4" x 6-1/4", Large Diameter, Self-Threading Concrete Fastener.....	22.60	
<i>For >10 To 50, Deduct</i>	-0.64	
<i>For >50 To 100, Deduct</i>	-1.53	
<i>For >100, Deduct</i>	-3.05	
05 05 19 00-0223 Pin Bolt Drives <small>(05 05 19 00-0198)</small>		
Note: Includes drilling. Zinc plated.		
05 05 19 00-0224 EA 1/4" x 1" Pin Bolt Drive.....	8.27	
<i>For >10 To 50, Deduct</i>	-0.38	
<i>For >50 To 100, Deduct</i>	-0.78	
<i>For >100, Deduct</i>	-1.57	
05 05 19 00-0225 EA 1/4" x 1-1/4" Pin Bolt Drive.....	8.27	
<i>For >10 To 50, Deduct</i>	-0.38	
<i>For >50 To 100, Deduct</i>	-0.78	
<i>For >100, Deduct</i>	-1.57	
05 05 19 00-0226 EA 1/4" x 1-1/2" Pin Bolt Drive.....	8.35	
<i>For >10 To 50, Deduct</i>	-0.38	
<i>For >50 To 100, Deduct</i>	-0.79	
<i>For >100, Deduct</i>	-1.57	
05 05 19 00-0227 EA 1/4" x 2" Pin Bolt Drive.....	8.37	
<i>For >10 To 50, Deduct</i>	-0.38	
<i>For >50 To 100, Deduct</i>	-0.79	
<i>For >100, Deduct</i>	-1.57	
05 05 19 00-0228 Powder Actuated, Shot-In Place Anchors <small>(05 05 19 00-0198)</small>		
05 05 19 00-0229 EA 0.15" Diameter x 1/2" Length, Stud Powder Actuated Anchor.....	2.08	
<i>For >10 To 50, Deduct</i>	-0.09	
<i>For >50 To 100, Deduct</i>	-0.18	
<i>For >100, Deduct</i>	-0.36	
05 05 19 00-0230 EA 0.15" Diameter x 3/4" Length, Stud Powder Actuated Anchor.....	2.21	
<i>For >10 To 50, Deduct</i>	-0.09	
<i>For >50 To 100, Deduct</i>	-0.19	
<i>For >100, Deduct</i>	-0.38	
05 05 19 00-0231 EA 0.15"/0.18" Diameter x 1" Length, Stud Powder Actuated Anchor.....	2.40	
<i>For >10 To 50, Deduct</i>	-0.10	
<i>For >50 To 100, Deduct</i>	-0.20	
<i>For >100, Deduct</i>	-0.41	
05 05 19 00-0232 EA 0.15"/0.18" Diameter x 1-1/4" Length, Stud Powder Actuated Anchor.....	2.67	
<i>For >10 To 50, Deduct</i>	-0.10	
<i>For >50 To 100, Deduct</i>	-0.22	
<i>For >100, Deduct</i>	-0.44	
05 05 19 00-0233 EA 0.15"/0.18" Diameter x 1-7/8" Length, Stud Powder Actuated Anchor.....	2.83	
<i>For >10 To 50, Deduct</i>	-0.10	
<i>For >50 To 100, Deduct</i>	-0.22	
<i>For >100, Deduct</i>	-0.45	
05 05 19 00-0234 Powder Actuated, Shot-In Place Anchors With Exposed Thread <small>(05 05 19 00-0198)</small>		

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0235 EA 0.145" Diameter x 1" Long Shank, 3/4" Thread Length, 1/4" - 20 Treaded Stud Powder Actuated Anchor.....	2.51	
For >10 To 50, Deduct	-0.09	
For >50 To 100, Deduct	-0.20	
For >100, Deduct	-0.39	
05 05 19 00-0236 EA 0.205" Diameter x 1-1/16" Long Shank, 1" Thread Length, 3/8" - 16 Treaded Stud Powder Actuated Anchor.....	3.43	
For >10 To 50, Deduct	-0.11	
For >50 To 100, Deduct	-0.25	
For >100, Deduct	-0.50	
05 05 21 Fastening Methods for Metal <small>(05 05)</small>		
05 05 21 00-0001 Welding <small>(05 05 21)</small>		
05 05 21 00-0002 Minimum Charge For Welding <small>(05 05 21 00-0001)</small>		
05 05 21 00-0003 EA Welding Minimum Charge.....	497.87	
Note: For projects where the total welding charge is less than the minimum charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
05 05 21 00-0004 Spot Welding <small>(05 05 21 00-0001)</small>		
See CSI section 05 05 21 00-0007 for a series of welds.		
05 05 21 00-0005 EA Up To 15 Spot Weldings, Welds Up To 1" Length Each.....	12.68	
For Aluminum Welding, Add	1.98	
For Stainless Steel Welding, Add	3.27	
05 05 21 00-0006 EA >15 Spot Weldings, Welds Up To 1" Length Each.....	9.90	
For Aluminum Welding, Add	1.56	
For Stainless Steel Welding, Add	2.57	
05 05 21 00-0007 Field Welding (Seam And Stitch Welding) <small>(05 05 21 00-0001)</small>		
05 05 21 00-0008 Vertical Fillet Welds <small>(05 05 21 00-0007)</small>		
Note: For existing steel and moment connections. Includes tack welds for proper alignment until the final welds are made.		
05 05 21 00-0009 LF 1/8" Vertical Fillet Weld.....	8.07	
For Aluminum Welding, Add	1.61	
For Stainless Steel Welding, Add	2.51	
For Up To 25, Add	2.66	
For >25 To 50, Add	1.89	
05 05 21 00-0010 LF 3/16" Vertical Fillet Weld.....	15.64	
For Aluminum Welding, Add	2.84	
For Stainless Steel Welding, Add	4.53	
For Up To 25, Add	5.27	
For >25 To 50, Add	3.75	
05 05 21 00-0011 LF 1/4" Vertical Fillet Weld.....	23.48	
For Aluminum Welding, Add	4.27	
For Stainless Steel Welding, Add	6.81	
For Up To 25, Add	7.91	
For >25 To 50, Add	5.62	
05 05 21 00-0012 LF 5/16" Vertical Fillet Weld.....	30.98	
For Aluminum Welding, Add	5.66	
For Stainless Steel Welding, Add	9.01	
For Up To 25, Add	10.42	
For >25 To 50, Add	7.41	
05 05 21 00-0013 LF 3/8" Vertical Fillet Weld.....	39.12	
For Aluminum Welding, Add	7.11	
For Stainless Steel Welding, Add	11.33	
For Up To 25, Add	13.17	
For >25 To 50, Add	9.37	
05 05 21 00-0014 LF 7/16" Vertical Fillet Weld.....	45.52	
For Aluminum Welding, Add	7.81	
For Stainless Steel Welding, Add	12.61	
For Up To 25, Add	15.52	
For >25 To 50, Add	11.05	
05 05 21 00-0015 LF 1/2" Vertical Fillet Weld.....	53.49	
For Aluminum Welding, Add	9.76	
For Stainless Steel Welding, Add	15.55	
For Up To 25, Add	18.00	
For >25 To 50, Add	12.79	
05 05 21 00-0016 LF 9/16" Vertical Fillet Weld.....	62.57	
For Aluminum Welding, Add	10.94	
For Stainless Steel Welding, Add	17.59	
For Up To 25, Add	21.25	
For >25 To 50, Add	15.12	
05 05 21 00-0017 LF 5/8" Vertical Fillet Weld.....	72.54	
For Aluminum Welding, Add	12.72	
For Stainless Steel Welding, Add	20.44	
For Up To 25, Add	24.62	
For >25 To 50, Add	17.52	
05 05 21 00-0018 LF 3/4" Vertical Fillet Weld.....	97.89	
For Aluminum Welding, Add	17.85	
For Stainless Steel Welding, Add	28.43	
For Up To 25, Add	32.94	
For >25 To 50, Add	23.42	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 21 00-0019	LF		7/8" Vertical Fillet Weld.....	144.81	
			<i>For Aluminum Welding, Add</i>	25.25	
			<i>For Stainless Steel Welding, Add</i>	40.61	
			<i>For Up To 25, Add</i>	49.21	
			<i>For >25 To 50, Add</i>	35.03	
05 05 21 00-0020	LF		1" Vertical Fillet Weld.....	195.10	
			<i>For Aluminum Welding, Add</i>	35.18	
			<i>For Stainless Steel Welding, Add</i>	56.16	
			<i>For Up To 25, Add</i>	65.82	
			<i>For >25 To 50, Add</i>	46.81	
05 05 21 00-0021			Horizontal Or Flat Fillet Welds <small>(05 05 21 00-0007)</small>		
			Note: For existing steel and moment connections. Includes tack welds for proper alignment until the final welds are made.		
05 05 21 00-0022	LF		1/8" Horizontal Or Flat Fillet Weld.....	6.80	
			<i>For Aluminum Welding, Add</i>	1.42	
			<i>For Stainless Steel Welding, Add</i>	2.20	
			<i>For Up To 25, Add</i>	2.22	
			<i>For >25 To 50, Add</i>	1.57	
05 05 21 00-0023	LF		3/16" Horizontal Or Flat Fillet Weld.....	13.24	
			<i>For Aluminum Welding, Add</i>	2.50	
			<i>For Stainless Steel Welding, Add</i>	3.96	
			<i>For Up To 25, Add</i>	4.42	
			<i>For >25 To 50, Add</i>	3.14	
05 05 21 00-0024	LF		1/4" Horizontal Or Flat Fillet Weld.....	19.82	
			<i>For Aluminum Welding, Add</i>	3.75	
			<i>For Stainless Steel Welding, Add</i>	5.93	
			<i>For Up To 25, Add</i>	6.61	
			<i>For >25 To 50, Add</i>	4.70	
05 05 21 00-0025	LF		5/16" Horizontal Or Flat Fillet Weld.....	26.20	
			<i>For Aluminum Welding, Add</i>	4.99	
			<i>For Stainless Steel Welding, Add</i>	7.88	
			<i>For Up To 25, Add</i>	8.73	
			<i>For >25 To 50, Add</i>	6.20	
05 05 21 00-0026	LF		3/8" Horizontal Or Flat Fillet Weld.....	33.07	
			<i>For Aluminum Welding, Add</i>	6.26	
			<i>For Stainless Steel Welding, Add</i>	9.89	
			<i>For Up To 25, Add</i>	11.03	
			<i>For >25 To 50, Add</i>	7.84	
05 05 21 00-0027	LF		7/16" Horizontal Or Flat Fillet Weld.....	38.31	
			<i>For Aluminum Welding, Add</i>	6.78	
			<i>For Stainless Steel Welding, Add</i>	10.88	
			<i>For Up To 25, Add</i>	12.98	
			<i>For >25 To 50, Add</i>	9.23	
05 05 21 00-0028	LF		1/2" Horizontal Or Flat Fillet Weld.....	45.18	
			<i>For Aluminum Welding, Add</i>	8.60	
			<i>For Stainless Steel Welding, Add</i>	13.57	
			<i>For Up To 25, Add</i>	15.06	
			<i>For >25 To 50, Add</i>	10.69	
05 05 21 00-0029	LF		9/16" Horizontal Or Flat Fillet Weld.....	52.78	
			<i>For Aluminum Welding, Add</i>	9.58	
			<i>For Stainless Steel Welding, Add</i>	15.27	
			<i>For Up To 25, Add</i>	17.78	
			<i>For >25 To 50, Add</i>	12.64	
05 05 21 00-0030	LF		5/8" Horizontal Or Flat Fillet Weld.....	61.48	
			<i>For Aluminum Welding, Add</i>	11.38	
			<i>For Stainless Steel Welding, Add</i>	18.06	
			<i>For Up To 25, Add</i>	20.62	
			<i>For >25 To 50, Add</i>	14.65	
05 05 21 00-0031	LF		3/4" Horizontal Or Flat Fillet Weld.....	82.76	
			<i>For Aluminum Welding, Add</i>	15.73	
			<i>For Stainless Steel Welding, Add</i>	24.84	
			<i>For Up To 25, Add</i>	27.58	
			<i>For >25 To 50, Add</i>	19.58	
05 05 21 00-0032	LF		7/8" Horizontal Or Flat Fillet Weld.....	121.27	
			<i>For Aluminum Welding, Add</i>	21.48	
			<i>For Stainless Steel Welding, Add</i>	34.44	
			<i>For Up To 25, Add</i>	41.07	
			<i>For >25 To 50, Add</i>	29.22	
05 05 21 00-0033	LF		1" Horizontal Or Flat Fillet Weld.....	164.32	
			<i>For Aluminum Welding, Add</i>	30.85	
			<i>For Stainless Steel Welding, Add</i>	48.83	
			<i>For Up To 25, Add</i>	54.93	
			<i>For >25 To 50, Add</i>	39.01	

05 05 23 Metal Fastenings (05 05)

- 05 05 23 00-0001 **Hex Bolts** (05 05 23)
 Note: For owner furnished materials or where requested by the owner. Excludes drilling through wood, steel, concrete, brick or block. See CSI section 05 05 23 00-1567 for drilling through steel.
- 05 05 23 00-0002 **A307B Heavy Hex Bolts** (05 05 23 00-0001)
 Note: Includes A307B heavy hex nut and two structural washers.
- 05 05 23 00-0003 **Plain Finish A307B Heavy Hex Bolts** (05 05 23 00-0002)

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0004 EA 1/2" Diameter x 1-1/2" Long, Plain Finish A307B Heavy Hex Bolt	14.70	1.41
For >10 To 50, Deduct	-0.59	
For >50 To 100, Deduct	-1.25	
For >100, Deduct	-2.51	
05 05 23 00-0005 EA 1/2" Diameter x 3" Long, Plain Finish A307B Heavy Hex Bolt	16.36	1.41
For >10 To 50, Deduct	-0.59	
For >50 To 100, Deduct	-1.30	
For >100, Deduct	-2.59	
05 05 23 00-0006 EA 5/8" Diameter x 2" Long, Plain Finish A307B Heavy Hex Bolt	16.40	1.41
For >10 To 50, Deduct	-0.59	
For >50 To 100, Deduct	-1.30	
For >100, Deduct	-2.59	
05 05 23 00-0007 EA 5/8" Diameter x 4" Long, Plain Finish A307B Heavy Hex Bolt	19.61	1.62
For >10 To 50, Deduct	-0.68	
For >50 To 100, Deduct	-1.50	
For >100, Deduct	-3.01	
05 05 23 00-0008 EA 3/4" Diameter x 2" Long, Plain Finish A307B Heavy Hex Bolt	19.19	1.41
For >10 To 50, Deduct	-0.59	
For >50 To 100, Deduct	-1.37	
For >100, Deduct	-2.73	
05 05 23 00-0009 EA 3/4" Diameter x 4" Long, Plain Finish A307B Heavy Hex Bolt	23.07	1.62
For >10 To 50, Deduct	-0.67	
For >50 To 100, Deduct	-1.59	
For >100, Deduct	-3.18	
05 05 23 00-0010 EA 3/4" Diameter x 6" Long, Plain Finish A307B Heavy Hex Bolt	29.53	1.69
For >10 To 50, Deduct	-0.71	
For >50 To 100, Deduct	-1.80	
For >100, Deduct	-3.59	
05 05 23 00-0011 EA 3/4" Diameter x 8" Long, Plain Finish A307B Heavy Hex Bolt	31.76	1.78
For >10 To 50, Deduct	-0.74	
For >50 To 100, Deduct	-1.91	
For >100, Deduct	-3.81	
05 05 23 00-0012 EA 7/8" Diameter x 2" Long, Plain Finish A307B Heavy Hex Bolt	23.15	1.54
For >10 To 50, Deduct	-0.64	
For >50 To 100, Deduct	-1.54	
For >100, Deduct	-3.08	
05 05 23 00-0013 EA 7/8" Diameter x 4" Long, Plain Finish A307B Heavy Hex Bolt	28.08	1.69
For >10 To 50, Deduct	-0.70	
For >50 To 100, Deduct	-1.76	
For >100, Deduct	-3.52	
05 05 23 00-0014 EA 1" Diameter x 4" Long, Plain Finish A307B Heavy Hex Bolt	33.25	1.78
For >10 To 50, Deduct	-0.74	
For >50 To 100, Deduct	-1.94	
For >100, Deduct	-3.89	
05 05 23 00-0015 EA 1" Diameter x 6" Long, Plain Finish A307B Heavy Hex Bolt	48.13	1.86
For >10 To 50, Deduct	-0.78	
For >50 To 100, Deduct	-2.37	
For >100, Deduct	-4.74	
05 05 23 00-0016 EA 1-1/4" Diameter x 4" Long, Plain Finish A307B Heavy Hex Bolt	56.43	2.12
For >10 To 50, Deduct	-0.88	
For >50 To 100, Deduct	-2.73	
For >100, Deduct	-5.46	
05 05 23 00-0017 EA 1-1/4" Diameter x 6" Long, Plain Finish A307B Heavy Hex Bolt	63.63	2.26
For >10 To 50, Deduct	-0.94	
For >50 To 100, Deduct	-3.01	
For >100, Deduct	-6.01	
05 05 23 00-0018 Galvanized A307B Heavy Hex Bolts <small>(05 05 23 00-0002)</small>		
05 05 23 00-0019 EA 1/2" Diameter x 1-1/2" Long, Galvanized A307B Heavy Hex Bolt	15.51	1.41
For >10 To 50, Deduct	-0.59	
For >50 To 100, Deduct	-1.27	
For >100, Deduct	-2.55	
05 05 23 00-0020 EA 1/2" Diameter x 3" Long, Galvanized A307B Heavy Hex Bolt	16.90	1.41
For >10 To 50, Deduct	-0.59	
For >50 To 100, Deduct	-1.31	
For >100, Deduct	-2.62	
05 05 23 00-0021 EA 5/8" Diameter x 2" Long, Galvanized A307B Heavy Hex Bolt	18.41	1.41
For >10 To 50, Deduct	-0.59	
For >50 To 100, Deduct	-1.35	
For >100, Deduct	-2.69	
05 05 23 00-0022 EA 5/8" Diameter x 4" Long, Galvanized A307B Heavy Hex Bolt	21.62	1.62
For >10 To 50, Deduct	-0.68	
For >50 To 100, Deduct	-1.55	
For >100, Deduct	-3.11	
05 05 23 00-0023 EA 3/4" Diameter x 2" Long, Galvanized A307B Heavy Hex Bolt	21.48	1.41
For >10 To 50, Deduct	-0.59	
For >50 To 100, Deduct	-1.42	
For >100, Deduct	-2.85	
05 05 23 00-0024 EA 3/4" Diameter x 4" Long, Galvanized A307B Heavy Hex Bolt	27.29	1.62
For >10 To 50, Deduct	-0.67	
For >50 To 100, Deduct	-1.69	
For >100, Deduct	-3.39	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0025	EA		3/4" Diameter x 6" Long, Galvanized A307B Heavy Hex Bolt.....	36.81	1.69
			<i>For >10 To 50, Deduct</i>	-0.71	
			<i>For >50 To 100, Deduct</i>	-1.98	
			<i>For >100, Deduct</i>	-3.96	
05 05 23 00-0026	EA		3/4" Diameter x 8" Long, Galvanized A307B Heavy Hex Bolt.....	43.54	1.78
			<i>For >10 To 50, Deduct</i>	-0.74	
			<i>For >50 To 100, Deduct</i>	-2.20	
			<i>For >100, Deduct</i>	-4.40	
05 05 23 00-0027	EA		7/8" Diameter x 2" Long, Galvanized A307B Heavy Hex Bolt.....	29.13	1.54
			<i>For >10 To 50, Deduct</i>	-0.64	
			<i>For >50 To 100, Deduct</i>	-1.69	
			<i>For >100, Deduct</i>	-3.38	
05 05 23 00-0028	EA		7/8" Diameter x 4" Long, Galvanized A307B Heavy Hex Bolt.....	34.82	1.69
			<i>For >10 To 50, Deduct</i>	-0.70	
			<i>For >50 To 100, Deduct</i>	-1.93	
			<i>For >100, Deduct</i>	-3.85	
05 05 23 00-0029	EA		1" Diameter x 4" Long, Galvanized A307B Heavy Hex Bolt.....	41.94	1.78
			<i>For >10 To 50, Deduct</i>	-0.74	
			<i>For >50 To 100, Deduct</i>	-2.16	
			<i>For >100, Deduct</i>	-4.32	
05 05 23 00-0030	EA		1" Diameter x 6" Long, Galvanized A307B Heavy Hex Bolt.....	63.90	1.86
			<i>For >10 To 50, Deduct</i>	-0.78	
			<i>For >50 To 100, Deduct</i>	-2.77	
			<i>For >100, Deduct</i>	-5.53	
05 05 23 00-0031	EA		1-1/4" Diameter x 4" Long, Galvanized A307B Heavy Hex Bolt.....	63.49	2.12
			<i>For >10 To 50, Deduct</i>	-0.88	
			<i>For >50 To 100, Deduct</i>	-2.91	
			<i>For >100, Deduct</i>	-5.81	
05 05 23 00-0032	EA		1-1/4" Diameter x 6" Long, Galvanized A307B Heavy Hex Bolt.....	79.96	2.26
			<i>For >10 To 50, Deduct</i>	-0.94	
			<i>For >50 To 100, Deduct</i>	-3.41	
			<i>For >100, Deduct</i>	-6.83	
05 05 23 00-0033			A325 High Strength Structural Bolts (05 05 23 00-0001)		
05 05 23 00-0034			Plain Finish A325 High Strength Structural Bolts (05 05 23 00-0033)		
			Note: Includes A325 heavy hex nut and structural washer.		
05 05 23 00-0035	EA		1/2" Diameter x 1-1/2" Long, Plain Finish A325 High Strength Structural Bolt.....	14.31	1.41
			<i>For >10 To 50, Deduct</i>	-0.59	
			<i>For >50 To 100, Deduct</i>	-1.24	
			<i>For >100, Deduct</i>	-2.49	
05 05 23 00-0036	EA		1/2" Diameter x 3" Long, Plain Finish A325 High Strength Structural Bolt.....	14.68	1.41
			<i>For >10 To 50, Deduct</i>	-0.59	
			<i>For >50 To 100, Deduct</i>	-1.25	
			<i>For >100, Deduct</i>	-2.51	
05 05 23 00-0037	EA		5/8" Diameter x 2" Long, Plain Finish A325 High Strength Structural Bolt.....	15.85	1.41
			<i>For >10 To 50, Deduct</i>	-0.59	
			<i>For >50 To 100, Deduct</i>	-1.28	
			<i>For >100, Deduct</i>	-2.57	
05 05 23 00-0038	EA		5/8" Diameter x 4" Long, Plain Finish A325 High Strength Structural Bolt.....	19.64	1.62
			<i>For >10 To 50, Deduct</i>	-0.68	
			<i>For >50 To 100, Deduct</i>	-1.50	
			<i>For >100, Deduct</i>	-3.01	
05 05 23 00-0039	EA		5/8" Diameter x 6" Long, Plain Finish A325 High Strength Structural Bolt.....	23.03	1.69
			<i>For >10 To 50, Deduct</i>	-0.71	
			<i>For >50 To 100, Deduct</i>	-1.63	
			<i>For >100, Deduct</i>	-3.27	
05 05 23 00-0040	EA		3/4" Diameter x 2" Long, Plain Finish A325 High Strength Structural Bolt.....	17.48	1.41
			<i>For >10 To 50, Deduct</i>	-0.59	
			<i>For >50 To 100, Deduct</i>	-1.32	
			<i>For >100, Deduct</i>	-2.65	
05 05 23 00-0041	EA		3/4" Diameter x 4" Long, Plain Finish A325 High Strength Structural Bolt.....	21.37	1.62
			<i>For >10 To 50, Deduct</i>	-0.67	
			<i>For >50 To 100, Deduct</i>	-1.55	
			<i>For >100, Deduct</i>	-3.09	
05 05 23 00-0042	EA		3/4" Diameter x 6" Long, Plain Finish A325 High Strength Structural Bolt.....	24.57	1.69
			<i>For >10 To 50, Deduct</i>	-0.71	
			<i>For >50 To 100, Deduct</i>	-1.67	
			<i>For >100, Deduct</i>	-3.34	
05 05 23 00-0043	EA		3/4" Diameter x 8" Long, Plain Finish A325 High Strength Structural Bolt.....	30.72	1.78
			<i>For >10 To 50, Deduct</i>	-0.74	
			<i>For >50 To 100, Deduct</i>	-1.88	
			<i>For >100, Deduct</i>	-3.76	
05 05 23 00-0044	EA		7/8" Diameter x 2" Long, Plain Finish A325 High Strength Structural Bolt.....	20.47	1.54
			<i>For >10 To 50, Deduct</i>	-0.64	
			<i>For >50 To 100, Deduct</i>	-1.47	
			<i>For >100, Deduct</i>	-2.95	
05 05 23 00-0045	EA		7/8" Diameter x 4" Long, Plain Finish A325 High Strength Structural Bolt.....	25.22	1.69
			<i>For >10 To 50, Deduct</i>	-0.70	
			<i>For >50 To 100, Deduct</i>	-1.69	
			<i>For >100, Deduct</i>	-3.37	
05 05 23 00-0046	EA		7/8" Diameter x 6" Long, Plain Finish A325 High Strength Structural Bolt.....	29.03	1.78
			<i>For >10 To 50, Deduct</i>	-0.74	
			<i>For >50 To 100, Deduct</i>	-1.84	
			<i>For >100, Deduct</i>	-3.68	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0047 EA 7/8" Diameter x 8" Long, Plain Finish A325 High Strength Structural Bolt.....	31.55	1.86
For >10 To 50, Deduct	-0.78	
For >50 To 100, Deduct	-1.96	
For >100, Deduct	-3.91	
05 05 23 00-0048 EA 1" Diameter x 2" Long, Plain Finish A325 High Strength Structural Bolt.....	22.79	1.60
For >10 To 50, Deduct	-0.67	
For >50 To 100, Deduct	-1.57	
For >100, Deduct	-3.14	
05 05 23 00-0049 EA 1" Diameter x 4" Long, Plain Finish A325 High Strength Structural Bolt.....	27.64	1.78
For >10 To 50, Deduct	-0.74	
For >50 To 100, Deduct	-1.80	
For >100, Deduct	-3.61	
05 05 23 00-0050 EA 1" Diameter x 6" Long, Plain Finish A325 High Strength Structural Bolt.....	32.33	1.86
For >10 To 50, Deduct	-0.78	
For >50 To 100, Deduct	-1.98	
For >100, Deduct	-3.95	
05 05 23 00-0051 EA 1" Diameter x 8" Long, Plain Finish A325 High Strength Structural Bolt.....	42.07	1.99
For >10 To 50, Deduct	-0.83	
For >50 To 100, Deduct	-2.30	
For >100, Deduct	-4.59	
05 05 23 00-0052 EA 1-1/4" Diameter x 3" Long, Plain Finish A325 High Strength Structural Bolt.....	40.02	1.99
For >10 To 50, Deduct	-0.83	
For >50 To 100, Deduct	-2.24	
For >100, Deduct	-4.49	
05 05 23 00-0053 EA 1-1/4" Diameter x 4" Long, Plain Finish A325 High Strength Structural Bolt.....	45.59	2.12
For >10 To 50, Deduct	-0.88	
For >50 To 100, Deduct	-2.46	
For >100, Deduct	-4.92	
05 05 23 00-0054 EA 1-1/4" Diameter x 6" Long, Plain Finish A325 High Strength Structural Bolt.....	53.88	2.26
For >10 To 50, Deduct	-0.94	
For >50 To 100, Deduct	-2.76	
For >100, Deduct	-5.52	
05 05 23 00-0055 EA 1-1/4" Diameter x 8" Long, Plain Finish A325 High Strength Structural Bolt.....	63.65	2.42
For >10 To 50, Deduct	-1.01	
For >50 To 100, Deduct	-3.10	
For >100, Deduct	-6.20	
05 05 23 00-0056 Galvanized A325 High Strength Structural Bolts (05 05 23 00-0053)		
Note: Includes A325 heavy hex nut and structural washer.		
05 05 23 00-0057 EA 1/2" Diameter x 1-1/2" Long, Galvanized A325 High Strength Structural Bolt.....	15.05	1.41
For >10 To 50, Deduct	-0.59	
For >50 To 100, Deduct	-1.26	
For >100, Deduct	-2.53	
05 05 23 00-0058 EA 1/2" Diameter x 3" Long, Galvanized A325 High Strength Structural Bolt.....	15.31	1.41
For >10 To 50, Deduct	-0.59	
For >50 To 100, Deduct	-1.27	
For >100, Deduct	-2.54	
05 05 23 00-0059 EA 5/8" Diameter x 2" Long, Galvanized A325 High Strength Structural Bolt.....	17.40	1.41
For >10 To 50, Deduct	-0.59	
For >50 To 100, Deduct	-1.32	
For >100, Deduct	-2.64	
05 05 23 00-0060 EA 5/8" Diameter x 4" Long, Galvanized A325 High Strength Structural Bolt.....	20.74	1.62
For >10 To 50, Deduct	-0.68	
For >50 To 100, Deduct	-1.53	
For >100, Deduct	-3.06	
05 05 23 00-0061 EA 5/8" Diameter x 6" Long, Galvanized A325 High Strength Structural Bolt.....	21.98	1.69
For >10 To 50, Deduct	-0.71	
For >50 To 100, Deduct	-1.61	
For >100, Deduct	-3.21	
05 05 23 00-0062 EA 3/4" Diameter x 2" Long, Galvanized A325 High Strength Structural Bolt.....	18.20	1.41
For >10 To 50, Deduct	-0.59	
For >50 To 100, Deduct	-1.34	
For >100, Deduct	-2.68	
05 05 23 00-0063 EA 3/4" Diameter x 4" Long, Galvanized A325 High Strength Structural Bolt.....	22.27	1.62
For >10 To 50, Deduct	-0.67	
For >50 To 100, Deduct	-1.57	
For >100, Deduct	-3.14	
05 05 23 00-0064 EA 3/4" Diameter x 6" Long, Galvanized A325 High Strength Structural Bolt.....	25.97	1.69
For >10 To 50, Deduct	-0.71	
For >50 To 100, Deduct	-1.71	
For >100, Deduct	-3.41	
05 05 23 00-0065 EA 3/4" Diameter x 8" Long, Galvanized A325 High Strength Structural Bolt.....	34.03	1.78
For >10 To 50, Deduct	-0.74	
For >50 To 100, Deduct	-1.96	
For >100, Deduct	-3.93	
05 05 23 00-0066 EA 7/8" Diameter x 2" Long, Galvanized A325 High Strength Structural Bolt.....	24.74	1.54
For >10 To 50, Deduct	-0.64	
For >50 To 100, Deduct	-1.58	
For >100, Deduct	-3.16	
05 05 23 00-0067 EA 7/8" Diameter x 4" Long, Galvanized A325 High Strength Structural Bolt.....	27.75	1.69
For >10 To 50, Deduct	-0.70	
For >50 To 100, Deduct	-1.75	
For >100, Deduct	-3.50	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0068 EA 7/8" Diameter x 6" Long, Galvanized A325 High Strength Structural Bolt	32.09	1.78
For >10 To 50, Deduct	-0.74	
For >50 To 100, Deduct	-1.91	
For >100, Deduct	-3.83	
05 05 23 00-0069 EA 7/8" Diameter x 8" Long, Galvanized A325 High Strength Structural Bolt	40.73	1.86
For >10 To 50, Deduct	-0.78	
For >50 To 100, Deduct	-2.19	
For >100, Deduct	-4.37	
05 05 23 00-0070 EA 1" Diameter x 2" Long, Galvanized A325 High Strength Structural Bolt	26.11	1.60
For >10 To 50, Deduct	-0.67	
For >50 To 100, Deduct	-1.65	
For >100, Deduct	-3.31	
05 05 23 00-0071 EA 1" Diameter x 4" Long, Galvanized A325 High Strength Structural Bolt	35.25	1.78
For >10 To 50, Deduct	-0.74	
For >50 To 100, Deduct	-1.99	
For >100, Deduct	-3.99	
05 05 23 00-0072 EA 1" Diameter x 6" Long, Galvanized A325 High Strength Structural Bolt	38.70	1.86
For >10 To 50, Deduct	-0.78	
For >50 To 100, Deduct	-2.14	
For >100, Deduct	-4.27	
05 05 23 00-0073 EA 1" Diameter x 8" Long, Galvanized A325 High Strength Structural Bolt	49.93	1.99
For >10 To 50, Deduct	-0.83	
For >50 To 100, Deduct	-2.49	
For >100, Deduct	-4.99	
05 05 23 00-0074 EA 1-1/4" Diameter x 3" Long, Galvanized A325 High Strength Structural Bolt	49.61	1.99
For >10 To 50, Deduct	-0.83	
For >50 To 100, Deduct	-2.48	
For >100, Deduct	-4.97	
05 05 23 00-0075 EA 1-1/4" Diameter x 4" Long, Galvanized A325 High Strength Structural Bolt	52.92	2.12
For >10 To 50, Deduct	-0.88	
For >50 To 100, Deduct	-2.64	
For >100, Deduct	-5.29	
05 05 23 00-0076 EA 1-1/4" Diameter x 6" Long, Galvanized A325 High Strength Structural Bolt	62.27	2.26
For >10 To 50, Deduct	-0.94	
For >50 To 100, Deduct	-2.97	
For >100, Deduct	-5.94	
05 05 23 00-0077 EA 1-1/4" Diameter x 8" Long, Galvanized A325 High Strength Structural Bolt	72.41	2.42
For >10 To 50, Deduct	-1.01	
For >50 To 100, Deduct	-3.32	
For >100, Deduct	-6.64	
05 05 23 00-0078 A490 High Strength Structural Bolts (05 05 23 00-0001)		
Note: Includes A490 heavy hex nut and two structural washers.		
05 05 23 00-0079 Plain Finish A490 High Strength Structural Bolts (05 05 23 00-0078)		
05 05 23 00-0080 EA 5/8" Diameter x 2" Long, Plain Finish A490 High Strength Structural Bolt	16.43	1.41
For >10 To 50, Deduct	-0.59	
For >50 To 100, Deduct	-1.30	
For >100, Deduct	-2.59	
05 05 23 00-0081 EA 5/8" Diameter x 4" Long, Plain Finish A490 High Strength Structural Bolt	23.63	1.62
For >10 To 50, Deduct	-0.68	
For >50 To 100, Deduct	-1.60	
For >100, Deduct	-3.21	
05 05 23 00-0082 EA 5/8" Diameter x 6" Long, Plain Finish A490 High Strength Structural Bolt	25.32	1.69
For >10 To 50, Deduct	-0.71	
For >50 To 100, Deduct	-1.69	
For >100, Deduct	-3.38	
05 05 23 00-0083 EA 3/4" Diameter x 2" Long, Plain Finish A490 High Strength Structural Bolt	18.69	1.41
For >10 To 50, Deduct	-0.59	
For >50 To 100, Deduct	-1.35	
For >100, Deduct	-2.71	
05 05 23 00-0084 EA 3/4" Diameter x 4" Long, Plain Finish A490 High Strength Structural Bolt	22.75	1.62
For >10 To 50, Deduct	-0.67	
For >50 To 100, Deduct	-1.58	
For >100, Deduct	-3.16	
05 05 23 00-0085 EA 3/4" Diameter x 6" Long, Plain Finish A490 High Strength Structural Bolt	26.79	1.69
For >10 To 50, Deduct	-0.71	
For >50 To 100, Deduct	-1.73	
For >100, Deduct	-3.45	
05 05 23 00-0086 EA 3/4" Diameter x 8" Long, Plain Finish A490 High Strength Structural Bolt	35.03	1.78
For >10 To 50, Deduct	-0.74	
For >50 To 100, Deduct	-1.99	
For >100, Deduct	-3.98	
05 05 23 00-0087 EA 7/8" Diameter x 2" Long, Plain Finish A490 High Strength Structural Bolt	21.86	1.54
For >10 To 50, Deduct	-0.64	
For >50 To 100, Deduct	-1.51	
For >100, Deduct	-3.02	
05 05 23 00-0088 EA 7/8" Diameter x 4" Long, Plain Finish A490 High Strength Structural Bolt	25.67	1.69
For >10 To 50, Deduct	-0.70	
For >50 To 100, Deduct	-1.70	
For >100, Deduct	-3.40	
05 05 23 00-0089 EA 7/8" Diameter x 6" Long, Plain Finish A490 High Strength Structural Bolt	38.02	1.78
For >10 To 50, Deduct	-0.74	
For >50 To 100, Deduct	-2.06	
For >100, Deduct	-4.13	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0090 EA 1" Diameter x 2" Long, Plain Finish A490 High Strength Structural Bolt.....	26.04	1.60
For >10 To 50, Deduct	-0.67	
For >50 To 100, Deduct	-1.65	
For >100, Deduct	-3.30	
05 05 23 00-0091 EA 1" Diameter x 4" Long, Plain Finish A490 High Strength Structural Bolt.....	31.29	1.78
For >10 To 50, Deduct	-0.74	
For >50 To 100, Deduct	-1.89	
For >100, Deduct	-3.79	
05 05 23 00-0092 EA 1" Diameter x 6" Long, Plain Finish A490 High Strength Structural Bolt.....	36.25	1.86
For >10 To 50, Deduct	-0.78	
For >50 To 100, Deduct	-2.07	
For >100, Deduct	-4.15	
05 05 23 00-0093 EA 1-1/4" Diameter x 3" Long, Plain Finish A490 High Strength Structural Bolt.....	45.82	1.99
For >10 To 50, Deduct	-0.83	
For >50 To 100, Deduct	-2.39	
For >100, Deduct	-4.78	
05 05 23 00-0094 EA 1-1/4" Diameter x 4" Long, Plain Finish A490 High Strength Structural Bolt.....	59.44	2.12
For >10 To 50, Deduct	-0.88	
For >50 To 100, Deduct	-2.81	
For >100, Deduct	-5.61	
05 05 23 00-0095 EA 1-1/4" Diameter x 6" Long, Plain Finish A490 High Strength Structural Bolt.....	62.50	2.26
For >10 To 50, Deduct	-0.94	
For >50 To 100, Deduct	-2.98	
For >100, Deduct	-5.95	
05 05 23 00-0096 EA 1-1/4" Diameter x 8" Long, Plain Finish A490 High Strength Structural Bolt.....	65.13	2.42
For >10 To 50, Deduct	-1.01	
For >50 To 100, Deduct	-3.14	
For >100, Deduct	-6.27	
05 05 23 00-0097 Hex Head Bolts (05 05 23 00-0001)		
05 05 23 00-0098 Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05 23 00-0097)		
05 05 23 00-0099 1/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05 23 00-0098)		
05 05 23 00-0100 EA 1/4" Diameter x 1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.13	
For >100 To 250, Deduct	-1.60	
For >250 To 500, Deduct	-2.00	
For >500, Deduct	-2.40	
05 05 23 00-0101 EA 1/4" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.16	
For >100 To 250, Deduct	-1.60	
For >250 To 500, Deduct	-2.00	
For >500, Deduct	-2.40	
05 05 23 00-0102 EA 1/4" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.25	
For >100 To 250, Deduct	-1.60	
For >250 To 500, Deduct	-2.00	
For >500, Deduct	-2.40	
05 05 23 00-0103 EA 1/4" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.30	
For >100 To 250, Deduct	-1.60	
For >250 To 500, Deduct	-2.00	
For >500, Deduct	-2.40	
05 05 23 00-0104 EA 1/4" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.59	
For >100 To 250, Deduct	-1.65	
For >250 To 500, Deduct	-2.06	
For >500, Deduct	-2.47	
05 05 23 00-0105 EA 1/4" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.63	
For >100 To 250, Deduct	-1.65	
For >250 To 500, Deduct	-2.06	
For >500, Deduct	-2.47	
05 05 23 00-0106 EA 1/4" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.77	
For >100 To 250, Deduct	-1.65	
For >250 To 500, Deduct	-2.06	
For >500, Deduct	-2.47	
05 05 23 00-0107 EA 1/4" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.01	
For >100 To 250, Deduct	-1.69	
For >250 To 500, Deduct	-2.12	
For >500, Deduct	-2.54	
05 05 23 00-0108 EA 1/4" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.06	
For >100 To 250, Deduct	-1.69	
For >250 To 500, Deduct	-2.12	
For >500, Deduct	-2.54	
05 05 23 00-0109 EA 1/4" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.28	
For >100 To 250, Deduct	-1.69	
For >250 To 500, Deduct	-2.12	
For >500, Deduct	-2.54	
05 05 23 00-0110 EA 1/4" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.67	
For >100 To 250, Deduct	-1.74	
For >250 To 500, Deduct	-2.17	
For >500, Deduct	-2.61	
05 05 23 00-0111 EA 1/4" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.83	
For >100 To 250, Deduct	-1.74	
For >250 To 500, Deduct	-2.17	
For >500, Deduct	-2.61	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0112	EA		1/4" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.06	
			<i>For >100 To 250, Deduct</i>	-1.74	
			<i>For >250 To 500, Deduct</i>	-2.17	
			<i>For >500, Deduct</i>	-2.61	
05 05 23 00-0113	EA		1/4" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.77	
			<i>For >100 To 250, Deduct</i>	-1.78	
			<i>For >250 To 500, Deduct</i>	-2.23	
			<i>For >500, Deduct</i>	-2.67	
05 05 23 00-0114	EA		1/4" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.12	
			<i>For >100 To 250, Deduct</i>	-1.78	
			<i>For >250 To 500, Deduct</i>	-2.23	
			<i>For >500, Deduct</i>	-2.67	
05 05 23 00-0115	EA		1/4" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.21	
			<i>For >100 To 250, Deduct</i>	-1.78	
			<i>For >250 To 500, Deduct</i>	-2.23	
			<i>For >500, Deduct</i>	-2.67	
05 05 23 00-0116 5/16" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0098)</small>					
05 05 23 00-0117	EA		5/16" Diameter x 1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.21	
			<i>For >100 To 250, Deduct</i>	-1.60	
			<i>For >250 To 500, Deduct</i>	-2.00	
			<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0118	EA		5/16" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.24	
			<i>For >100 To 250, Deduct</i>	-1.60	
			<i>For >250 To 500, Deduct</i>	-2.00	
			<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0119	EA		5/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.32	
			<i>For >100 To 250, Deduct</i>	-1.60	
			<i>For >250 To 500, Deduct</i>	-2.00	
			<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0120	EA		5/16" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.38	
			<i>For >100 To 250, Deduct</i>	-1.60	
			<i>For >250 To 500, Deduct</i>	-2.00	
			<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0121	EA		5/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.69	
			<i>For >100 To 250, Deduct</i>	-1.65	
			<i>For >250 To 500, Deduct</i>	-2.06	
			<i>For >500, Deduct</i>	-2.47	
05 05 23 00-0122	EA		5/16" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.84	
			<i>For >100 To 250, Deduct</i>	-1.65	
			<i>For >250 To 500, Deduct</i>	-2.06	
			<i>For >500, Deduct</i>	-2.47	
05 05 23 00-0123	EA		5/16" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.89	
			<i>For >100 To 250, Deduct</i>	-1.65	
			<i>For >250 To 500, Deduct</i>	-2.06	
			<i>For >500, Deduct</i>	-2.47	
05 05 23 00-0124	EA		5/16" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.27	
			<i>For >100 To 250, Deduct</i>	-1.69	
			<i>For >250 To 500, Deduct</i>	-2.12	
			<i>For >500, Deduct</i>	-2.54	
05 05 23 00-0125	EA		5/16" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.48	
			<i>For >100 To 250, Deduct</i>	-1.69	
			<i>For >250 To 500, Deduct</i>	-2.12	
			<i>For >500, Deduct</i>	-2.54	
05 05 23 00-0126	EA		5/16" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.56	
			<i>For >100 To 250, Deduct</i>	-1.69	
			<i>For >250 To 500, Deduct</i>	-2.12	
			<i>For >500, Deduct</i>	-2.54	
05 05 23 00-0127	EA		5/16" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.86	
			<i>For >100 To 250, Deduct</i>	-1.74	
			<i>For >250 To 500, Deduct</i>	-2.17	
			<i>For >500, Deduct</i>	-2.61	
05 05 23 00-0128	EA		5/16" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.94	
			<i>For >100 To 250, Deduct</i>	-1.74	
			<i>For >250 To 500, Deduct</i>	-2.17	
			<i>For >500, Deduct</i>	-2.61	
05 05 23 00-0129	EA		5/16" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.74	
			<i>For >100 To 250, Deduct</i>	-1.74	
			<i>For >250 To 500, Deduct</i>	-2.17	
			<i>For >500, Deduct</i>	-2.61	
05 05 23 00-0130	EA		5/16" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.35	
			<i>For >100 To 250, Deduct</i>	-1.78	
			<i>For >250 To 500, Deduct</i>	-2.23	
			<i>For >500, Deduct</i>	-2.67	
05 05 23 00-0131	EA		5/16" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.70	
			<i>For >100 To 250, Deduct</i>	-1.78	
			<i>For >250 To 500, Deduct</i>	-2.23	
			<i>For >500, Deduct</i>	-2.67	
05 05 23 00-0132	EA		5/16" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.02	
			<i>For >100 To 250, Deduct</i>	-1.78	
			<i>For >250 To 500, Deduct</i>	-2.23	
			<i>For >500, Deduct</i>	-2.67	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0133 3/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05)</small>		
<small>23 00-0098</small>		
05 05 23 00-0134 EA 3/8" Diameter x 1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.31	
For >100 To 250, Deduct	-1.60	
For >250 To 500, Deduct	-2.00	
For >500, Deduct	-2.40	
05 05 23 00-0135 EA 3/8" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.34	
For >100 To 250, Deduct	-1.60	
For >250 To 500, Deduct	-2.00	
For >500, Deduct	-2.40	
05 05 23 00-0136 EA 3/8" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.45	
For >100 To 250, Deduct	-1.60	
For >250 To 500, Deduct	-2.00	
For >500, Deduct	-2.40	
05 05 23 00-0137 EA 3/8" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.55	
For >100 To 250, Deduct	-1.60	
For >250 To 500, Deduct	-2.00	
For >500, Deduct	-2.40	
05 05 23 00-0138 EA 3/8" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.87	
For >100 To 250, Deduct	-1.65	
For >250 To 500, Deduct	-2.06	
For >500, Deduct	-2.47	
05 05 23 00-0139 EA 3/8" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.06	
For >100 To 250, Deduct	-1.65	
For >250 To 500, Deduct	-2.06	
For >500, Deduct	-2.47	
05 05 23 00-0140 EA 3/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.24	
For >100 To 250, Deduct	-1.65	
For >250 To 500, Deduct	-2.06	
For >500, Deduct	-2.47	
05 05 23 00-0141 EA 3/8" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.66	
For >100 To 250, Deduct	-1.69	
For >250 To 500, Deduct	-2.12	
For >500, Deduct	-2.54	
05 05 23 00-0142 EA 3/8" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.90	
For >100 To 250, Deduct	-1.69	
For >250 To 500, Deduct	-2.12	
For >500, Deduct	-2.54	
05 05 23 00-0143 EA 3/8" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.03	
For >100 To 250, Deduct	-1.69	
For >250 To 500, Deduct	-2.12	
For >500, Deduct	-2.54	
05 05 23 00-0144 EA 3/8" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.51	
For >100 To 250, Deduct	-1.74	
For >250 To 500, Deduct	-2.17	
For >500, Deduct	-2.61	
05 05 23 00-0145 EA 3/8" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.64	
For >100 To 250, Deduct	-1.74	
For >250 To 500, Deduct	-2.17	
For >500, Deduct	-2.61	
05 05 23 00-0146 EA 3/8" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.74	
For >100 To 250, Deduct	-1.74	
For >250 To 500, Deduct	-2.17	
For >500, Deduct	-2.61	
05 05 23 00-0147 EA 3/8" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.02	
For >100 To 250, Deduct	-1.78	
For >250 To 500, Deduct	-2.23	
For >500, Deduct	-2.67	
05 05 23 00-0148 EA 3/8" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.17	
For >100 To 250, Deduct	-1.78	
For >250 To 500, Deduct	-2.23	
For >500, Deduct	-2.67	
05 05 23 00-0149 EA 3/8" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.38	
For >100 To 250, Deduct	-1.78	
For >250 To 500, Deduct	-2.23	
For >500, Deduct	-2.67	
05 05 23 00-0150 7/16" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05)</small>		
<small>23 00-0098</small>		
05 05 23 00-0151 EA 7/16" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.90	
For >100 To 250, Deduct	-1.83	
For >250 To 500, Deduct	-2.29	
For >500, Deduct	-2.74	
05 05 23 00-0152 EA 7/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.05	
For >100 To 250, Deduct	-1.83	
For >250 To 500, Deduct	-2.29	
For >500, Deduct	-2.74	
05 05 23 00-0153 EA 7/16" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.07	
For >100 To 250, Deduct	-1.83	
For >250 To 500, Deduct	-2.29	
For >500, Deduct	-2.74	
05 05 23 00-0154 EA 7/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.50	
For >100 To 250, Deduct	-1.87	
For >250 To 500, Deduct	-2.34	
For >500, Deduct	-2.81	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0155 EA 7/16" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.73	
<i>For >100 To 250, Deduct</i>	-1.87	
<i>For >250 To 500, Deduct</i>	-2.34	
<i>For >500, Deduct</i>	-2.81	
05 05 23 00-0156 EA 7/16" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.91	
<i>For >100 To 250, Deduct</i>	-1.87	
<i>For >250 To 500, Deduct</i>	-2.34	
<i>For >500, Deduct</i>	-2.81	
05 05 23 00-0157 EA 7/16" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.63	
<i>For >100 To 250, Deduct</i>	-1.92	
<i>For >250 To 500, Deduct</i>	-2.40	
<i>For >500, Deduct</i>	-2.88	
05 05 23 00-0158 EA 7/16" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.77	
<i>For >100 To 250, Deduct</i>	-1.92	
<i>For >250 To 500, Deduct</i>	-2.40	
<i>For >500, Deduct</i>	-2.88	
05 05 23 00-0159 EA 7/16" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.04	
<i>For >100 To 250, Deduct</i>	-1.92	
<i>For >250 To 500, Deduct</i>	-2.40	
<i>For >500, Deduct</i>	-2.88	
05 05 23 00-0160 EA 7/16" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.71	
<i>For >100 To 250, Deduct</i>	-1.97	
<i>For >250 To 500, Deduct</i>	-2.46	
<i>For >500, Deduct</i>	-2.95	
05 05 23 00-0161 EA 7/16" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.85	
<i>For >100 To 250, Deduct</i>	-1.97	
<i>For >250 To 500, Deduct</i>	-2.46	
<i>For >500, Deduct</i>	-2.95	
05 05 23 00-0162 EA 7/16" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.19	
<i>For >100 To 250, Deduct</i>	-1.97	
<i>For >250 To 500, Deduct</i>	-2.46	
<i>For >500, Deduct</i>	-2.95	
05 05 23 00-0163 EA 7/16" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.57	
<i>For >100 To 250, Deduct</i>	-2.01	
<i>For >250 To 500, Deduct</i>	-2.52	
<i>For >500, Deduct</i>	-3.02	
05 05 23 00-0164 EA 7/16" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.88	
<i>For >100 To 250, Deduct</i>	-2.01	
<i>For >250 To 500, Deduct</i>	-2.52	
<i>For >500, Deduct</i>	-3.02	
05 05 23 00-0165 EA 7/16" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.49	
<i>For >100 To 250, Deduct</i>	-2.01	
<i>For >250 To 500, Deduct</i>	-2.52	
<i>For >500, Deduct</i>	-3.02	
05 05 23 00-0166 1/2" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0098)</small>		
05 05 23 00-0167 EA 1/2" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.77	
<i>For >100 To 250, Deduct</i>	-1.83	
<i>For >250 To 500, Deduct</i>	-2.29	
<i>For >500, Deduct</i>	-2.74	
05 05 23 00-0168 EA 1/2" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.95	
<i>For >100 To 250, Deduct</i>	-1.83	
<i>For >250 To 500, Deduct</i>	-2.29	
<i>For >500, Deduct</i>	-2.74	
05 05 23 00-0169 EA 1/2" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.13	
<i>For >100 To 250, Deduct</i>	-1.83	
<i>For >250 To 500, Deduct</i>	-2.29	
<i>For >500, Deduct</i>	-2.74	
05 05 23 00-0170 EA 1/2" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.57	
<i>For >100 To 250, Deduct</i>	-1.87	
<i>For >250 To 500, Deduct</i>	-2.34	
<i>For >500, Deduct</i>	-2.81	
05 05 23 00-0171 EA 1/2" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.75	
<i>For >100 To 250, Deduct</i>	-1.87	
<i>For >250 To 500, Deduct</i>	-2.34	
<i>For >500, Deduct</i>	-2.81	
05 05 23 00-0172 EA 1/2" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.94	
<i>For >100 To 250, Deduct</i>	-1.87	
<i>For >250 To 500, Deduct</i>	-2.34	
<i>For >500, Deduct</i>	-2.81	
05 05 23 00-0173 EA 1/2" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.42	
<i>For >100 To 250, Deduct</i>	-1.92	
<i>For >250 To 500, Deduct</i>	-2.40	
<i>For >500, Deduct</i>	-2.88	
05 05 23 00-0174 EA 1/2" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.63	
<i>For >100 To 250, Deduct</i>	-1.92	
<i>For >250 To 500, Deduct</i>	-2.40	
<i>For >500, Deduct</i>	-2.88	
05 05 23 00-0175 EA 1/2" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.01	
<i>For >100 To 250, Deduct</i>	-1.92	
<i>For >250 To 500, Deduct</i>	-2.40	
<i>For >500, Deduct</i>	-2.88	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0176 EA 1/2" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.29	
For>100 To 250, Deduct	-1.97	
For>250 To 500, Deduct	-2.46	
For>500, Deduct	-2.95	
05 05 23 00-0177 EA 1/2" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.33	
For>100 To 250, Deduct	-1.97	
For>250 To 500, Deduct	-2.46	
For>500, Deduct	-2.95	
05 05 23 00-0178 EA 1/2" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.65	
For>100 To 250, Deduct	-1.97	
For>250 To 500, Deduct	-2.46	
For>500, Deduct	-2.95	
05 05 23 00-0179 EA 1/2" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.17	
For>100 To 250, Deduct	-2.01	
For>250 To 500, Deduct	-2.52	
For>500, Deduct	-3.02	
05 05 23 00-0180 EA 1/2" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.37	
For>100 To 250, Deduct	-2.01	
For>250 To 500, Deduct	-2.52	
For>500, Deduct	-3.02	
05 05 23 00-0181 EA 1/2" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.92	
For>100 To 250, Deduct	-2.01	
For>250 To 500, Deduct	-2.52	
For>500, Deduct	-3.02	
05 05 23 00-0182 EA 1/2" Diameter x 8-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.43	
For>100 To 250, Deduct	-2.06	
For>250 To 500, Deduct	-2.57	
For>500, Deduct	-3.09	
05 05 23 00-0183 EA 1/2" Diameter x 9" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.63	
For>100 To 250, Deduct	-2.06	
For>250 To 500, Deduct	-2.57	
For>500, Deduct	-3.09	
05 05 23 00-0184 EA 1/2" Diameter x 9-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.40	
For>100 To 250, Deduct	-2.06	
For>250 To 500, Deduct	-2.57	
For>500, Deduct	-3.09	
05 05 23 00-0185 EA 1/2" Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.62	
For>100 To 250, Deduct	-2.06	
For>250 To 500, Deduct	-2.57	
For>500, Deduct	-3.09	
05 05 23 00-0186 9/16" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0098)</small>		
05 05 23 00-0187 EA 9/16" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.96	
For>100 To 250, Deduct	-1.83	
For>250 To 500, Deduct	-2.29	
For>500, Deduct	-2.74	
05 05 23 00-0188 EA 9/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.21	
For>100 To 250, Deduct	-1.83	
For>250 To 500, Deduct	-2.29	
For>500, Deduct	-2.74	
05 05 23 00-0189 EA 9/16" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.27	
For>100 To 250, Deduct	-1.83	
For>250 To 500, Deduct	-2.29	
For>500, Deduct	-2.74	
05 05 23 00-0190 EA 9/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.31	
For>100 To 250, Deduct	-1.87	
For>250 To 500, Deduct	-2.34	
For>500, Deduct	-2.81	
05 05 23 00-0191 EA 9/16" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.63	
For>100 To 250, Deduct	-1.87	
For>250 To 500, Deduct	-2.34	
For>500, Deduct	-2.81	
05 05 23 00-0192 EA 9/16" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.74	
For>100 To 250, Deduct	-1.87	
For>250 To 500, Deduct	-2.34	
For>500, Deduct	-2.81	
05 05 23 00-0193 EA 9/16" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.01	
For>100 To 250, Deduct	-1.92	
For>250 To 500, Deduct	-2.40	
For>500, Deduct	-2.88	
05 05 23 00-0194 EA 9/16" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.09	
For>100 To 250, Deduct	-1.92	
For>250 To 500, Deduct	-2.40	
For>500, Deduct	-2.88	
05 05 23 00-0195 EA 9/16" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.36	
For>100 To 250, Deduct	-1.92	
For>250 To 500, Deduct	-2.40	
For>500, Deduct	-2.88	
05 05 23 00-0196 EA 9/16" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.65	
For>100 To 250, Deduct	-1.97	
For>250 To 500, Deduct	-2.46	
For>500, Deduct	-2.95	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0197	EA			9/16" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.73	
				<i>For >100 To 250, Deduct</i>	-1.97	
				<i>For >250 To 500, Deduct</i>	-2.46	
				<i>For >500, Deduct</i>	-2.95	
05 05 23 00-0198	EA			9/16" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.97	
				<i>For >100 To 250, Deduct</i>	-1.97	
				<i>For >250 To 500, Deduct</i>	-2.46	
				<i>For >500, Deduct</i>	-2.95	
05 05 23 00-0199	EA			9/16" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.46	
				<i>For >100 To 250, Deduct</i>	-2.01	
				<i>For >250 To 500, Deduct</i>	-2.52	
				<i>For >500, Deduct</i>	-3.02	
05 05 23 00-0200	EA			9/16" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.75	
				<i>For >100 To 250, Deduct</i>	-2.01	
				<i>For >250 To 500, Deduct</i>	-2.52	
				<i>For >500, Deduct</i>	-3.02	
05 05 23 00-0201	EA			9/16" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.04	
				<i>For >100 To 250, Deduct</i>	-2.01	
				<i>For >250 To 500, Deduct</i>	-2.52	
				<i>For >500, Deduct</i>	-3.02	
05 05 23 00-0202	EA			9/16" Diameter x 8-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.53	
				<i>For >100 To 250, Deduct</i>	-2.06	
				<i>For >250 To 500, Deduct</i>	-2.57	
				<i>For >500, Deduct</i>	-3.09	
05 05 23 00-0203	EA			9/16" Diameter x 9" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.87	
				<i>For >100 To 250, Deduct</i>	-2.06	
				<i>For >250 To 500, Deduct</i>	-2.57	
				<i>For >500, Deduct</i>	-3.09	
05 05 23 00-0204	EA			9/16" Diameter x 9-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.10	
				<i>For >100 To 250, Deduct</i>	-2.06	
				<i>For >250 To 500, Deduct</i>	-2.57	
				<i>For >500, Deduct</i>	-3.09	
05 05 23 00-0205	EA			9/16" Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.45	
				<i>For >100 To 250, Deduct</i>	-2.06	
				<i>For >250 To 500, Deduct</i>	-2.57	
				<i>For >500, Deduct</i>	-3.09	
05 05 23 00-0206				5/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05)</small>		
				<small>23 00-0098)</small>		
05 05 23 00-0207	EA			5/8" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.65	
				<i>For >100 To 250, Deduct</i>	-2.06	
				<i>For >250 To 500, Deduct</i>	-2.57	
				<i>For >500, Deduct</i>	-3.09	
05 05 23 00-0208	EA			5/8" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.82	
				<i>For >100 To 250, Deduct</i>	-2.06	
				<i>For >250 To 500, Deduct</i>	-2.57	
				<i>For >500, Deduct</i>	-3.09	
05 05 23 00-0209	EA			5/8" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.03	
				<i>For >100 To 250, Deduct</i>	-2.06	
				<i>For >250 To 500, Deduct</i>	-2.57	
				<i>For >500, Deduct</i>	-3.09	
05 05 23 00-0210	EA			5/8" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.54	
				<i>For >100 To 250, Deduct</i>	-2.10	
				<i>For >250 To 500, Deduct</i>	-2.63	
				<i>For >500, Deduct</i>	-3.15	
05 05 23 00-0211	EA			5/8" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.86	
				<i>For >100 To 250, Deduct</i>	-2.10	
				<i>For >250 To 500, Deduct</i>	-2.63	
				<i>For >500, Deduct</i>	-3.15	
05 05 23 00-0212	EA			5/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.26	
				<i>For >100 To 250, Deduct</i>	-2.10	
				<i>For >250 To 500, Deduct</i>	-2.63	
				<i>For >500, Deduct</i>	-3.15	
05 05 23 00-0213	EA			5/8" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.99	
				<i>For >100 To 250, Deduct</i>	-2.15	
				<i>For >250 To 500, Deduct</i>	-2.69	
				<i>For >500, Deduct</i>	-3.22	
05 05 23 00-0214	EA			5/8" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.60	
				<i>For >100 To 250, Deduct</i>	-2.15	
				<i>For >250 To 500, Deduct</i>	-2.69	
				<i>For >500, Deduct</i>	-3.22	
05 05 23 00-0215	EA			5/8" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.08	
				<i>For >100 To 250, Deduct</i>	-2.15	
				<i>For >250 To 500, Deduct</i>	-2.69	
				<i>For >500, Deduct</i>	-3.22	
05 05 23 00-0216	EA			5/8" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.50	
				<i>For >100 To 250, Deduct</i>	-2.19	
				<i>For >250 To 500, Deduct</i>	-2.74	
				<i>For >500, Deduct</i>	-3.29	
05 05 23 00-0217	EA			5/8" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.56	
				<i>For >100 To 250, Deduct</i>	-2.19	
				<i>For >250 To 500, Deduct</i>	-2.74	
				<i>For >500, Deduct</i>	-3.29	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0218 EA 5/8" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.37	
For>100 To 250, Deduct	-2.19	
For>250 To 500, Deduct	-2.74	
For>500, Deduct	-3.29	
05 05 23 00-0219 EA 5/8" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.06	
For>100 To 250, Deduct	-2.24	
For>250 To 500, Deduct	-2.80	
For>500, Deduct	-3.36	
05 05 23 00-0220 EA 5/8" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.70	
For>100 To 250, Deduct	-2.24	
For>250 To 500, Deduct	-2.80	
For>500, Deduct	-3.36	
05 05 23 00-0221 EA 5/8" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	18.45	
For>100 To 250, Deduct	-2.24	
For>250 To 500, Deduct	-2.80	
For>500, Deduct	-3.36	
05 05 23 00-0222 EA 5/8" Diameter x 8-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	19.49	
For>100 To 250, Deduct	-2.29	
For>250 To 500, Deduct	-2.86	
For>500, Deduct	-3.43	
05 05 23 00-0223 EA 5/8" Diameter x 9" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	20.22	
For>100 To 250, Deduct	-2.29	
For>250 To 500, Deduct	-2.86	
For>500, Deduct	-3.43	
05 05 23 00-0224 EA 5/8" Diameter x 9-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	20.97	
For>100 To 250, Deduct	-2.29	
For>250 To 500, Deduct	-2.86	
For>500, Deduct	-3.43	
05 05 23 00-0225 EA 5/8" Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	21.55	
For>100 To 250, Deduct	-2.29	
For>250 To 500, Deduct	-2.86	
For>500, Deduct	-3.43	
05 05 23 00-0226 3/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts <small>05 05</small>		
<small>23 00-0098</small>		
05 05 23 00-0227 EA 3/4" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.20	
For>100 To 250, Deduct	-2.06	
For>250 To 500, Deduct	-2.57	
For>500, Deduct	-3.09	
05 05 23 00-0228 EA 3/4" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.53	
For>100 To 250, Deduct	-2.06	
For>250 To 500, Deduct	-2.57	
For>500, Deduct	-3.09	
05 05 23 00-0229 EA 3/4" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.84	
For>100 To 250, Deduct	-2.06	
For>250 To 500, Deduct	-2.57	
For>500, Deduct	-3.09	
05 05 23 00-0230 EA 3/4" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.44	
For>100 To 250, Deduct	-2.10	
For>250 To 500, Deduct	-2.63	
For>500, Deduct	-3.15	
05 05 23 00-0231 EA 3/4" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.91	
For>100 To 250, Deduct	-2.10	
For>250 To 500, Deduct	-2.63	
For>500, Deduct	-3.15	
05 05 23 00-0232 EA 3/4" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.33	
For>100 To 250, Deduct	-2.10	
For>250 To 500, Deduct	-2.63	
For>500, Deduct	-3.15	
05 05 23 00-0233 EA 3/4" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.01	
For>100 To 250, Deduct	-2.15	
For>250 To 500, Deduct	-2.69	
For>500, Deduct	-3.22	
05 05 23 00-0234 EA 3/4" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.59	
For>100 To 250, Deduct	-2.15	
For>250 To 500, Deduct	-2.69	
For>500, Deduct	-3.22	
05 05 23 00-0235 EA 3/4" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.05	
For>100 To 250, Deduct	-2.15	
For>250 To 500, Deduct	-2.69	
For>500, Deduct	-3.22	
05 05 23 00-0236 EA 3/4" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.23	
For>100 To 250, Deduct	-2.19	
For>250 To 500, Deduct	-2.74	
For>500, Deduct	-3.29	
05 05 23 00-0237 EA 3/4" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.61	
For>100 To 250, Deduct	-2.19	
For>250 To 500, Deduct	-2.74	
For>500, Deduct	-3.29	
05 05 23 00-0238 EA 3/4" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	18.33	
For>100 To 250, Deduct	-2.19	
For>250 To 500, Deduct	-2.74	
For>500, Deduct	-3.29	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0239 EA 3/4" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	18.60	
<i>For >100 To 250, Deduct</i>	-2.24	
<i>For >250 To 500, Deduct</i>	-2.80	
<i>For >500, Deduct</i>	-3.36	
05 05 23 00-0240 EA 3/4" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	20.28	
<i>For >100 To 250, Deduct</i>	-2.24	
<i>For >250 To 500, Deduct</i>	-2.80	
<i>For >500, Deduct</i>	-3.36	
05 05 23 00-0241 EA 3/4" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	21.06	
<i>For >100 To 250, Deduct</i>	-2.24	
<i>For >250 To 500, Deduct</i>	-2.80	
<i>For >500, Deduct</i>	-3.36	
05 05 23 00-0242 EA 3/4" Diameter x 8-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	22.31	
<i>For >100 To 250, Deduct</i>	-2.29	
<i>For >250 To 500, Deduct</i>	-2.86	
<i>For >500, Deduct</i>	-3.43	
05 05 23 00-0243 EA 3/4" Diameter x 9" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	23.09	
<i>For >100 To 250, Deduct</i>	-2.29	
<i>For >250 To 500, Deduct</i>	-2.86	
<i>For >500, Deduct</i>	-3.43	
05 05 23 00-0244 EA 3/4" Diameter x 9-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	24.13	
<i>For >100 To 250, Deduct</i>	-2.29	
<i>For >250 To 500, Deduct</i>	-2.86	
<i>For >500, Deduct</i>	-3.43	
05 05 23 00-0245 EA 3/4" Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	25.14	
<i>For >100 To 250, Deduct</i>	-2.29	
<i>For >250 To 500, Deduct</i>	-2.86	
<i>For >500, Deduct</i>	-3.43	
05 05 23 00-0246 7/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0098)</small>		
05 05 23 00-0247 EA 7/8" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.09	
<i>For >100 To 250, Deduct</i>	-2.29	
<i>For >250 To 500, Deduct</i>	-2.86	
<i>For >500, Deduct</i>	-3.43	
05 05 23 00-0248 EA 7/8" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.37	
<i>For >100 To 250, Deduct</i>	-2.29	
<i>For >250 To 500, Deduct</i>	-2.86	
<i>For >500, Deduct</i>	-3.43	
05 05 23 00-0249 EA 7/8" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.51	
<i>For >100 To 250, Deduct</i>	-2.29	
<i>For >250 To 500, Deduct</i>	-2.86	
<i>For >500, Deduct</i>	-3.43	
05 05 23 00-0250 EA 7/8" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.12	
<i>For >100 To 250, Deduct</i>	-2.33	
<i>For >250 To 500, Deduct</i>	-2.92	
<i>For >500, Deduct</i>	-3.50	
05 05 23 00-0251 EA 7/8" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.88	
<i>For >100 To 250, Deduct</i>	-2.33	
<i>For >250 To 500, Deduct</i>	-2.92	
<i>For >500, Deduct</i>	-3.50	
05 05 23 00-0252 EA 7/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.77	
<i>For >100 To 250, Deduct</i>	-2.33	
<i>For >250 To 500, Deduct</i>	-2.92	
<i>For >500, Deduct</i>	-3.50	
05 05 23 00-0253 EA 7/8" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	18.74	
<i>For >100 To 250, Deduct</i>	-2.38	
<i>For >250 To 500, Deduct</i>	-2.97	
<i>For >500, Deduct</i>	-3.57	
05 05 23 00-0254 EA 7/8" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	20.04	
<i>For >100 To 250, Deduct</i>	-2.38	
<i>For >250 To 500, Deduct</i>	-2.97	
<i>For >500, Deduct</i>	-3.57	
05 05 23 00-0255 EA 7/8" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	20.76	
<i>For >100 To 250, Deduct</i>	-2.38	
<i>For >250 To 500, Deduct</i>	-2.97	
<i>For >500, Deduct</i>	-3.57	
05 05 23 00-0256 EA 7/8" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	21.55	
<i>For >100 To 250, Deduct</i>	-2.42	
<i>For >250 To 500, Deduct</i>	-3.03	
<i>For >500, Deduct</i>	-3.64	
05 05 23 00-0257 EA 7/8" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	21.98	
<i>For >100 To 250, Deduct</i>	-2.42	
<i>For >250 To 500, Deduct</i>	-3.03	
<i>For >500, Deduct</i>	-3.64	
05 05 23 00-0258 EA 7/8" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	23.00	
<i>For >100 To 250, Deduct</i>	-2.42	
<i>For >250 To 500, Deduct</i>	-3.03	
<i>For >500, Deduct</i>	-3.64	
05 05 23 00-0259 EA 7/8" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	24.25	
<i>For >100 To 250, Deduct</i>	-2.47	
<i>For >250 To 500, Deduct</i>	-3.09	
<i>For >500, Deduct</i>	-3.70	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0260 EA 7/8" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	25.28	
For>100 To 250, Deduct	-2.47	
For>250 To 500, Deduct	-3.09	
For>500, Deduct	-3.70	
05 05 23 00-0261 EA 7/8" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	26.31	
For>100 To 250, Deduct	-2.47	
For>250 To 500, Deduct	-3.09	
For>500, Deduct	-3.70	
05 05 23 00-0262 EA 7/8" Diameter x 8-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	27.50	
For>100 To 250, Deduct	-2.51	
For>250 To 500, Deduct	-3.14	
For>500, Deduct	-3.77	
05 05 23 00-0263 EA 7/8" Diameter x 9" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	28.58	
For>100 To 250, Deduct	-2.51	
For>250 To 500, Deduct	-3.14	
For>500, Deduct	-3.77	
05 05 23 00-0264 EA 7/8" Diameter x 9-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	29.57	
For>100 To 250, Deduct	-2.51	
For>250 To 500, Deduct	-3.14	
For>500, Deduct	-3.77	
05 05 23 00-0265 EA 7/8" Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	30.64	
For>100 To 250, Deduct	-2.51	
For>250 To 500, Deduct	-3.14	
For>500, Deduct	-3.77	
05 05 23 00-0266 1" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05 23 00-0098)		
05 05 23 00-0267 EA 1" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.35	
For>100 To 250, Deduct	-2.29	
For>250 To 500, Deduct	-2.86	
For>500, Deduct	-3.43	
05 05 23 00-0268 EA 1" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	18.22	
For>100 To 250, Deduct	-2.29	
For>250 To 500, Deduct	-2.86	
For>500, Deduct	-3.43	
05 05 23 00-0269 EA 1" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	19.63	
For>100 To 250, Deduct	-2.33	
For>250 To 500, Deduct	-2.92	
For>500, Deduct	-3.50	
05 05 23 00-0270 EA 1" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	21.11	
For>100 To 250, Deduct	-2.33	
For>250 To 500, Deduct	-2.92	
For>500, Deduct	-3.50	
05 05 23 00-0271 EA 1" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	22.45	
For>100 To 250, Deduct	-2.33	
For>250 To 500, Deduct	-2.92	
For>500, Deduct	-3.50	
05 05 23 00-0272 EA 1" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	24.07	
For>100 To 250, Deduct	-2.38	
For>250 To 500, Deduct	-2.97	
For>500, Deduct	-3.57	
05 05 23 00-0273 EA 1" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	25.37	
For>100 To 250, Deduct	-2.38	
For>250 To 500, Deduct	-2.97	
For>500, Deduct	-3.57	
05 05 23 00-0274 EA 1" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	26.71	
For>100 To 250, Deduct	-2.38	
For>250 To 500, Deduct	-2.97	
For>500, Deduct	-3.57	
05 05 23 00-0275 EA 1" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	27.61	
For>100 To 250, Deduct	-2.42	
For>250 To 500, Deduct	-3.03	
For>500, Deduct	-3.64	
05 05 23 00-0276 EA 1" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	28.25	
For>100 To 250, Deduct	-2.42	
For>250 To 500, Deduct	-3.03	
For>500, Deduct	-3.64	
05 05 23 00-0277 EA 1" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	29.38	
For>100 To 250, Deduct	-2.42	
For>250 To 500, Deduct	-3.03	
For>500, Deduct	-3.64	
05 05 23 00-0278 EA 1" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	30.73	
For>100 To 250, Deduct	-2.47	
For>250 To 500, Deduct	-3.09	
For>500, Deduct	-3.70	
05 05 23 00-0279 EA 1" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	31.85	
For>100 To 250, Deduct	-2.47	
For>250 To 500, Deduct	-3.09	
For>500, Deduct	-3.70	
05 05 23 00-0280 EA 1" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	33.01	
For>100 To 250, Deduct	-2.47	
For>250 To 500, Deduct	-3.09	
For>500, Deduct	-3.70	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0281 EA 1" Diameter x 8-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	34.17	
<i>For >100 To 250, Deduct</i>	-2.51	
<i>For >250 To 500, Deduct</i>	-3.14	
<i>For >500, Deduct</i>	-3.77	
05 05 23 00-0282 EA 1" Diameter x 9" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	35.48	
<i>For >100 To 250, Deduct</i>	-2.51	
<i>For >250 To 500, Deduct</i>	-3.14	
<i>For >500, Deduct</i>	-3.77	
05 05 23 00-0283 EA 1" Diameter x 9-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	36.64	
<i>For >100 To 250, Deduct</i>	-2.51	
<i>For >250 To 500, Deduct</i>	-3.14	
<i>For >500, Deduct</i>	-3.77	
05 05 23 00-0284 EA 1" Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	37.82	
<i>For >100 To 250, Deduct</i>	-2.51	
<i>For >250 To 500, Deduct</i>	-3.14	
<i>For >500, Deduct</i>	-3.77	
05 05 23 00-0285 Zinc Plated Steel, Grade 5, Hex Head Bolts <small>(05 05 23 00-0097)</small>		
05 05 23 00-0286 1/4" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts <small>(05 05 23 00-0285)</small>		
05 05 23 00-0287 EA 1/4" Diameter x 1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.19	
<i>For >100 To 250, Deduct</i>	-1.60	
<i>For >250 To 500, Deduct</i>	-2.00	
<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0288 EA 1/4" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.25	
<i>For >100 To 250, Deduct</i>	-1.60	
<i>For >250 To 500, Deduct</i>	-2.00	
<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0289 EA 1/4" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.30	
<i>For >100 To 250, Deduct</i>	-1.60	
<i>For >250 To 500, Deduct</i>	-2.00	
<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0290 EA 1/4" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.40	
<i>For >100 To 250, Deduct</i>	-1.60	
<i>For >250 To 500, Deduct</i>	-2.00	
<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0291 EA 1/4" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.73	
<i>For >100 To 250, Deduct</i>	-1.65	
<i>For >250 To 500, Deduct</i>	-2.06	
<i>For >500, Deduct</i>	-2.47	
05 05 23 00-0292 EA 1/4" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.91	
<i>For >100 To 250, Deduct</i>	-1.65	
<i>For >250 To 500, Deduct</i>	-2.06	
<i>For >500, Deduct</i>	-2.47	
05 05 23 00-0293 EA 1/4" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.10	
<i>For >100 To 250, Deduct</i>	-1.65	
<i>For >250 To 500, Deduct</i>	-2.06	
<i>For >500, Deduct</i>	-2.47	
05 05 23 00-0294 EA 1/4" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.48	
<i>For >100 To 250, Deduct</i>	-1.69	
<i>For >250 To 500, Deduct</i>	-2.12	
<i>For >500, Deduct</i>	-2.54	
05 05 23 00-0295 EA 1/4" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.72	
<i>For >100 To 250, Deduct</i>	-1.69	
<i>For >250 To 500, Deduct</i>	-2.12	
<i>For >500, Deduct</i>	-2.54	
05 05 23 00-0296 EA 1/4" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.88	
<i>For >100 To 250, Deduct</i>	-1.69	
<i>For >250 To 500, Deduct</i>	-2.12	
<i>For >500, Deduct</i>	-2.54	
05 05 23 00-0297 EA 1/4" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.28	
<i>For >100 To 250, Deduct</i>	-1.74	
<i>For >250 To 500, Deduct</i>	-2.17	
<i>For >500, Deduct</i>	-2.61	
05 05 23 00-0298 EA 1/4" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.43	
<i>For >100 To 250, Deduct</i>	-1.74	
<i>For >250 To 500, Deduct</i>	-2.17	
<i>For >500, Deduct</i>	-2.61	
05 05 23 00-0299 EA 1/4" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.58	
<i>For >100 To 250, Deduct</i>	-1.74	
<i>For >250 To 500, Deduct</i>	-2.17	
<i>For >500, Deduct</i>	-2.61	
05 05 23 00-0300 EA 1/4" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	11.00	
<i>For >100 To 250, Deduct</i>	-1.78	
<i>For >250 To 500, Deduct</i>	-2.23	
<i>For >500, Deduct</i>	-2.67	
05 05 23 00-0301 EA 1/4" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	11.21	
<i>For >100 To 250, Deduct</i>	-1.78	
<i>For >250 To 500, Deduct</i>	-2.23	
<i>For >500, Deduct</i>	-2.67	
05 05 23 00-0302 EA 1/4" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	11.43	
<i>For >100 To 250, Deduct</i>	-1.78	
<i>For >250 To 500, Deduct</i>	-2.23	
<i>For >500, Deduct</i>	-2.67	

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

MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
05 05 23 00-0303	5/16" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts <small>(05 05 23 00-0285)</small>		
05 05 23 00-0304	EA 5/16" Diameter x 1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	8.31	
	For >100 To 250, Deduct	-1.60	
	For >250 To 500, Deduct	-2.00	
	For >500, Deduct	-2.40	
05 05 23 00-0305	EA 5/16" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	8.35	
	For >100 To 250, Deduct	-1.60	
	For >250 To 500, Deduct	-2.00	
	For >500, Deduct	-2.40	
05 05 23 00-0306	EA 5/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	8.42	
	For >100 To 250, Deduct	-1.60	
	For >250 To 500, Deduct	-2.00	
	For >500, Deduct	-2.40	
05 05 23 00-0307	EA 5/16" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	8.56	
	For >100 To 250, Deduct	-1.60	
	For >250 To 500, Deduct	-2.00	
	For >500, Deduct	-2.40	
05 05 23 00-0308	EA 5/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	8.89	
	For >100 To 250, Deduct	-1.65	
	For >250 To 500, Deduct	-2.06	
	For >500, Deduct	-2.47	
05 05 23 00-0309	EA 5/16" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	9.06	
	For >100 To 250, Deduct	-1.65	
	For >250 To 500, Deduct	-2.06	
	For >500, Deduct	-2.47	
05 05 23 00-0310	EA 5/16" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	9.35	
	For >100 To 250, Deduct	-1.65	
	For >250 To 500, Deduct	-2.06	
	For >500, Deduct	-2.47	
05 05 23 00-0311	EA 5/16" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	9.73	
	For >100 To 250, Deduct	-1.69	
	For >250 To 500, Deduct	-2.12	
	For >500, Deduct	-2.54	
05 05 23 00-0312	EA 5/16" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	9.97	
	For >100 To 250, Deduct	-1.69	
	For >250 To 500, Deduct	-2.12	
	For >500, Deduct	-2.54	
05 05 23 00-0313	EA 5/16" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	10.18	
	For >100 To 250, Deduct	-1.69	
	For >250 To 500, Deduct	-2.12	
	For >500, Deduct	-2.54	
05 05 23 00-0314	EA 5/16" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	10.84	
	For >100 To 250, Deduct	-1.74	
	For >250 To 500, Deduct	-2.17	
	For >500, Deduct	-2.61	
05 05 23 00-0315	EA 5/16" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	10.92	
	For >100 To 250, Deduct	-1.74	
	For >250 To 500, Deduct	-2.17	
	For >500, Deduct	-2.61	
05 05 23 00-0316	EA 5/16" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	11.21	
	For >100 To 250, Deduct	-1.74	
	For >250 To 500, Deduct	-2.17	
	For >500, Deduct	-2.61	
05 05 23 00-0317	EA 5/16" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	11.81	
	For >100 To 250, Deduct	-1.78	
	For >250 To 500, Deduct	-2.23	
	For >500, Deduct	-2.67	
05 05 23 00-0318	EA 5/16" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	12.21	
	For >100 To 250, Deduct	-1.78	
	For >250 To 500, Deduct	-2.23	
	For >500, Deduct	-2.67	
05 05 23 00-0319	EA 5/16" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	12.59	
	For >100 To 250, Deduct	-1.78	
	For >250 To 500, Deduct	-2.23	
	For >500, Deduct	-2.67	
05 05 23 00-0320	3/8" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts <small>(05 05 23 00-0285)</small>		
05 05 23 00-0321	EA 3/8" Diameter x 1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	8.37	
	For >100 To 250, Deduct	-1.60	
	For >250 To 500, Deduct	-2.00	
	For >500, Deduct	-2.40	
05 05 23 00-0322	EA 3/8" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	8.41	
	For >100 To 250, Deduct	-1.60	
	For >250 To 500, Deduct	-2.00	
	For >500, Deduct	-2.40	
05 05 23 00-0323	EA 3/8" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	8.54	
	For >100 To 250, Deduct	-1.60	
	For >250 To 500, Deduct	-2.00	
	For >500, Deduct	-2.40	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0324	EA			3/8" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	8.68 -1.60 -2.00 -2.40	
05 05 23 00-0325	EA			3/8" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	9.07 -1.65 -2.06 -2.47	
05 05 23 00-0326	EA			3/8" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	9.23 -1.65 -2.06 -2.47	
05 05 23 00-0327	EA			3/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	9.49 -1.65 -2.06 -2.47	
05 05 23 00-0328	EA			3/8" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	10.00 -1.69 -2.12 -2.54	
05 05 23 00-0329	EA			3/8" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	10.61 -1.69 -2.12 -2.54	
05 05 23 00-0330	EA			3/8" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	10.89 -1.69 -2.12 -2.54	
05 05 23 00-0331	EA			3/8" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	11.48 -1.74 -2.17 -2.61	
05 05 23 00-0332	EA			3/8" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	11.74 -1.74 -2.17 -2.61	
05 05 23 00-0333	EA			3/8" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	12.20 -1.74 -2.17 -2.61	
05 05 23 00-0334	EA			3/8" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	12.76 -1.78 -2.23 -2.67	
05 05 23 00-0335	EA			3/8" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	13.37 -1.78 -2.23 -2.67	
05 05 23 00-0336	EA			3/8" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	13.86 -1.78 -2.23 -2.67	
05 05 23 00-0337				7/16" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts <small>(05 05 23 00-0285)</small>		
05 05 23 00-0338	EA			7/16" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	9.79 -1.83 -2.29 -2.74	
05 05 23 00-0339	EA			7/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	9.91 -1.83 -2.29 -2.74	
05 05 23 00-0340	EA			7/16" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	10.23 -1.83 -2.29 -2.74	
05 05 23 00-0341	EA			7/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	10.70 -1.87 -2.34 -2.81	
05 05 23 00-0342	EA			7/16" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	10.93 -1.87 -2.34 -2.81	
05 05 23 00-0343	EA			7/16" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	11.14 -1.87 -2.34 -2.81	
05 05 23 00-0344	EA			7/16" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	11.65 -1.92 -2.40 -2.88	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0345 EA 7/16" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	12.85	
For>100 To 250, Deduct	-1.92	
For>250 To 500, Deduct	-2.40	
For>500, Deduct	-2.88	
05 05 23 00-0346 EA 7/16" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	13.39	
For>100 To 250, Deduct	-1.92	
For>250 To 500, Deduct	-2.40	
For>500, Deduct	-2.88	
05 05 23 00-0347 EA 7/16" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	13.78	
For>100 To 250, Deduct	-1.97	
For>250 To 500, Deduct	-2.46	
For>500, Deduct	-2.95	
05 05 23 00-0348 EA 7/16" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	14.03	
For>100 To 250, Deduct	-1.97	
For>250 To 500, Deduct	-2.46	
For>500, Deduct	-2.95	
05 05 23 00-0349 EA 7/16" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	14.29	
For>100 To 250, Deduct	-1.97	
For>250 To 500, Deduct	-2.46	
For>500, Deduct	-2.95	
05 05 23 00-0350 EA 7/16" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	14.87	
For>100 To 250, Deduct	-2.01	
For>250 To 500, Deduct	-2.52	
For>500, Deduct	-3.02	
05 05 23 00-0351 EA 7/16" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	15.22	
For>100 To 250, Deduct	-2.01	
For>250 To 500, Deduct	-2.52	
For>500, Deduct	-3.02	
05 05 23 00-0352 EA 7/16" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	15.57	
For>100 To 250, Deduct	-2.01	
For>250 To 500, Deduct	-2.52	
For>500, Deduct	-3.02	
05 05 23 00-0353 1/2" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts (05 05 23 00-0285)		
05 05 23 00-0354 EA 1/2" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.95	
For>100 To 250, Deduct	-1.83	
For>250 To 500, Deduct	-2.29	
For>500, Deduct	-2.74	
05 05 23 00-0355 EA 1/2" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.12	
For>100 To 250, Deduct	-1.83	
For>250 To 500, Deduct	-2.29	
For>500, Deduct	-2.74	
05 05 23 00-0356 EA 1/2" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.30	
For>100 To 250, Deduct	-1.83	
For>250 To 500, Deduct	-2.29	
For>500, Deduct	-2.74	
05 05 23 00-0357 EA 1/2" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.82	
For>100 To 250, Deduct	-1.87	
For>250 To 500, Deduct	-2.34	
For>500, Deduct	-2.81	
05 05 23 00-0358 EA 1/2" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	11.09	
For>100 To 250, Deduct	-1.87	
For>250 To 500, Deduct	-2.34	
For>500, Deduct	-2.81	
05 05 23 00-0359 EA 1/2" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	11.38	
For>100 To 250, Deduct	-1.87	
For>250 To 500, Deduct	-2.34	
For>500, Deduct	-2.81	
05 05 23 00-0360 EA 1/2" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	11.87	
For>100 To 250, Deduct	-1.92	
For>250 To 500, Deduct	-2.40	
For>500, Deduct	-2.88	
05 05 23 00-0361 EA 1/2" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	12.82	
For>100 To 250, Deduct	-1.92	
For>250 To 500, Deduct	-2.40	
For>500, Deduct	-2.88	
05 05 23 00-0362 EA 1/2" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	12.88	
For>100 To 250, Deduct	-1.92	
For>250 To 500, Deduct	-2.40	
For>500, Deduct	-2.88	
05 05 23 00-0363 EA 1/2" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	13.75	
For>100 To 250, Deduct	-1.97	
For>250 To 500, Deduct	-2.46	
For>500, Deduct	-2.95	
05 05 23 00-0364 EA 1/2" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	14.12	
For>100 To 250, Deduct	-1.97	
For>250 To 500, Deduct	-2.46	
For>500, Deduct	-2.95	
05 05 23 00-0365 EA 1/2" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	15.07	
For>100 To 250, Deduct	-1.97	
For>250 To 500, Deduct	-2.46	
For>500, Deduct	-2.95	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0366 EA 1/2" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	16.15	
<i>For >100 To 250, Deduct</i>	-2.01	
<i>For >250 To 500, Deduct</i>	-2.52	
<i>For >500, Deduct</i>	-3.02	
05 05 23 00-0367 EA 1/2" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	16.68	
<i>For >100 To 250, Deduct</i>	-2.01	
<i>For >250 To 500, Deduct</i>	-2.52	
<i>For >500, Deduct</i>	-3.02	
05 05 23 00-0368 EA 1/2" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	16.88	
<i>For >100 To 250, Deduct</i>	-2.01	
<i>For >250 To 500, Deduct</i>	-2.52	
<i>For >500, Deduct</i>	-3.02	
05 05 23 00-0369 EA 1/2" Diameter x 8-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	18.09	
<i>For >100 To 250, Deduct</i>	-2.06	
<i>For >250 To 500, Deduct</i>	-2.57	
<i>For >500, Deduct</i>	-3.09	
05 05 23 00-0370 EA 1/2" Diameter x 9" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	19.02	
<i>For >100 To 250, Deduct</i>	-2.06	
<i>For >250 To 500, Deduct</i>	-2.57	
<i>For >500, Deduct</i>	-3.09	
05 05 23 00-0371 EA 1/2" Diameter x 9-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	20.33	
<i>For >100 To 250, Deduct</i>	-2.06	
<i>For >250 To 500, Deduct</i>	-2.57	
<i>For >500, Deduct</i>	-3.09	
05 05 23 00-0372 EA 1/2" Diameter x 10" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	20.84	
<i>For >100 To 250, Deduct</i>	-2.06	
<i>For >250 To 500, Deduct</i>	-2.57	
<i>For >500, Deduct</i>	-3.09	
05 05 23 00-0373 9/16" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts <small>(05 05 23 00-0285)</small>		
05 05 23 00-0374 EA 9/16" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.47	
<i>For >100 To 250, Deduct</i>	-1.83	
<i>For >250 To 500, Deduct</i>	-2.29	
<i>For >500, Deduct</i>	-2.74	
05 05 23 00-0375 EA 9/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.77	
<i>For >100 To 250, Deduct</i>	-1.83	
<i>For >250 To 500, Deduct</i>	-2.29	
<i>For >500, Deduct</i>	-2.74	
05 05 23 00-0376 EA 9/16" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	11.05	
<i>For >100 To 250, Deduct</i>	-1.83	
<i>For >250 To 500, Deduct</i>	-2.29	
<i>For >500, Deduct</i>	-2.74	
05 05 23 00-0377 EA 9/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	11.58	
<i>For >100 To 250, Deduct</i>	-1.87	
<i>For >250 To 500, Deduct</i>	-2.34	
<i>For >500, Deduct</i>	-2.81	
05 05 23 00-0378 EA 9/16" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	11.96	
<i>For >100 To 250, Deduct</i>	-1.87	
<i>For >250 To 500, Deduct</i>	-2.34	
<i>For >500, Deduct</i>	-2.81	
05 05 23 00-0379 EA 9/16" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	12.39	
<i>For >100 To 250, Deduct</i>	-1.87	
<i>For >250 To 500, Deduct</i>	-2.34	
<i>For >500, Deduct</i>	-2.81	
05 05 23 00-0380 EA 9/16" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	13.11	
<i>For >100 To 250, Deduct</i>	-1.92	
<i>For >250 To 500, Deduct</i>	-2.40	
<i>For >500, Deduct</i>	-2.88	
05 05 23 00-0381 EA 9/16" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	14.76	
<i>For >100 To 250, Deduct</i>	-1.92	
<i>For >250 To 500, Deduct</i>	-2.40	
<i>For >500, Deduct</i>	-2.88	
05 05 23 00-0382 EA 9/16" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	15.19	
<i>For >100 To 250, Deduct</i>	-1.92	
<i>For >250 To 500, Deduct</i>	-2.40	
<i>For >500, Deduct</i>	-2.88	
05 05 23 00-0383 EA 9/16" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	15.89	
<i>For >100 To 250, Deduct</i>	-1.97	
<i>For >250 To 500, Deduct</i>	-2.46	
<i>For >500, Deduct</i>	-2.95	
05 05 23 00-0384 EA 9/16" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	16.35	
<i>For >100 To 250, Deduct</i>	-1.97	
<i>For >250 To 500, Deduct</i>	-2.46	
<i>For >500, Deduct</i>	-2.95	
05 05 23 00-0385 EA 9/16" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	17.87	
<i>For >100 To 250, Deduct</i>	-1.97	
<i>For >250 To 500, Deduct</i>	-2.46	
<i>For >500, Deduct</i>	-2.95	
05 05 23 00-0386 EA 9/16" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	19.98	
<i>For >100 To 250, Deduct</i>	-2.01	
<i>For >250 To 500, Deduct</i>	-2.52	
<i>For >500, Deduct</i>	-3.02	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0387 EA 9/16" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	20.61	
For>100 To 250, Deduct	-2.01	
For>250 To 500, Deduct	-2.52	
For>500, Deduct	-3.02	
05 05 23 00-0388 EA 9/16" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	21.66	
For>100 To 250, Deduct	-2.01	
For>250 To 500, Deduct	-2.52	
For>500, Deduct	-3.02	
05 05 23 00-0389 EA 9/16" Diameter x 8-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	22.88	
For>100 To 250, Deduct	-2.06	
For>250 To 500, Deduct	-2.57	
For>500, Deduct	-3.09	
05 05 23 00-0390 EA 9/16" Diameter x 9" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	23.26	
For>100 To 250, Deduct	-2.06	
For>250 To 500, Deduct	-2.57	
For>500, Deduct	-3.09	
05 05 23 00-0391 EA 9/16" Diameter x 9-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	23.65	
For>100 To 250, Deduct	-2.06	
For>250 To 500, Deduct	-2.57	
For>500, Deduct	-3.09	
05 05 23 00-0392 EA 9/16" Diameter x 10" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	24.59	
For>100 To 250, Deduct	-2.06	
For>250 To 500, Deduct	-2.57	
For>500, Deduct	-3.09	
05 05 23 00-0393 5/8" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts (05 05 23 00-0285)		
05 05 23 00-0394 EA 5/8" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	11.94	
For>100 To 250, Deduct	-2.06	
For>250 To 500, Deduct	-2.57	
For>500, Deduct	-3.09	
05 05 23 00-0395 EA 5/8" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	12.05	
For>100 To 250, Deduct	-2.06	
For>250 To 500, Deduct	-2.57	
For>500, Deduct	-3.09	
05 05 23 00-0396 EA 5/8" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	12.14	
For>100 To 250, Deduct	-2.06	
For>250 To 500, Deduct	-2.57	
For>500, Deduct	-3.09	
05 05 23 00-0397 EA 5/8" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	12.65	
For>100 To 250, Deduct	-2.10	
For>250 To 500, Deduct	-2.63	
For>500, Deduct	-3.15	
05 05 23 00-0398 EA 5/8" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	13.15	
For>100 To 250, Deduct	-2.10	
For>250 To 500, Deduct	-2.63	
For>500, Deduct	-3.15	
05 05 23 00-0399 EA 5/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	13.61	
For>100 To 250, Deduct	-2.10	
For>250 To 500, Deduct	-2.63	
For>500, Deduct	-3.15	
05 05 23 00-0400 EA 5/8" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	14.31	
For>100 To 250, Deduct	-2.15	
For>250 To 500, Deduct	-2.69	
For>500, Deduct	-3.22	
05 05 23 00-0401 EA 5/8" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	15.20	
For>100 To 250, Deduct	-2.15	
For>250 To 500, Deduct	-2.69	
For>500, Deduct	-3.22	
05 05 23 00-0402 EA 5/8" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	15.67	
For>100 To 250, Deduct	-2.15	
For>250 To 500, Deduct	-2.69	
For>500, Deduct	-3.22	
05 05 23 00-0403 EA 5/8" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	16.14	
For>100 To 250, Deduct	-2.19	
For>250 To 500, Deduct	-2.74	
For>500, Deduct	-3.29	
05 05 23 00-0404 EA 5/8" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	16.91	
For>100 To 250, Deduct	-2.19	
For>250 To 500, Deduct	-2.74	
For>500, Deduct	-3.29	
05 05 23 00-0405 EA 5/8" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	18.11	
For>100 To 250, Deduct	-2.19	
For>250 To 500, Deduct	-2.74	
For>500, Deduct	-3.29	
05 05 23 00-0406 EA 5/8" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	19.44	
For>100 To 250, Deduct	-2.24	
For>250 To 500, Deduct	-2.80	
For>500, Deduct	-3.36	
05 05 23 00-0407 EA 5/8" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	20.43	
For>100 To 250, Deduct	-2.24	
For>250 To 500, Deduct	-2.80	
For>500, Deduct	-3.36	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0408	EA			5/8" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	20.59	
				<i>For >100 To 250, Deduct</i>	-2.24	
				<i>For >250 To 500, Deduct</i>	-2.80	
				<i>For >500, Deduct</i>	-3.36	
05 05 23 00-0409	EA			5/8" Diameter x 8-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	22.62	
				<i>For >100 To 250, Deduct</i>	-2.29	
				<i>For >250 To 500, Deduct</i>	-2.86	
				<i>For >500, Deduct</i>	-3.43	
05 05 23 00-0410	EA			5/8" Diameter x 9" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	23.96	
				<i>For >100 To 250, Deduct</i>	-2.29	
				<i>For >250 To 500, Deduct</i>	-2.86	
				<i>For >500, Deduct</i>	-3.43	
05 05 23 00-0411	EA			5/8" Diameter x 9-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	25.93	
				<i>For >100 To 250, Deduct</i>	-2.29	
				<i>For >250 To 500, Deduct</i>	-2.86	
				<i>For >500, Deduct</i>	-3.43	
05 05 23 00-0412	EA			5/8" Diameter x 10" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	26.62	
				<i>For >100 To 250, Deduct</i>	-2.29	
				<i>For >250 To 500, Deduct</i>	-2.86	
				<i>For >500, Deduct</i>	-3.43	
05 05 23 00-0413				3/4" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts (05 05 23 00-0285)		
05 05 23 00-0414	EA			3/4" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	13.07	
				<i>For >100 To 250, Deduct</i>	-2.06	
				<i>For >250 To 500, Deduct</i>	-2.57	
				<i>For >500, Deduct</i>	-3.09	
05 05 23 00-0415	EA			3/4" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	13.27	
				<i>For >100 To 250, Deduct</i>	-2.06	
				<i>For >250 To 500, Deduct</i>	-2.57	
				<i>For >500, Deduct</i>	-3.09	
05 05 23 00-0416	EA			3/4" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	13.37	
				<i>For >100 To 250, Deduct</i>	-2.06	
				<i>For >250 To 500, Deduct</i>	-2.57	
				<i>For >500, Deduct</i>	-3.09	
05 05 23 00-0417	EA			3/4" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	14.02	
				<i>For >100 To 250, Deduct</i>	-2.10	
				<i>For >250 To 500, Deduct</i>	-2.63	
				<i>For >500, Deduct</i>	-3.15	
05 05 23 00-0418	EA			3/4" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	14.52	
				<i>For >100 To 250, Deduct</i>	-2.10	
				<i>For >250 To 500, Deduct</i>	-2.63	
				<i>For >500, Deduct</i>	-3.15	
05 05 23 00-0419	EA			3/4" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	15.29	
				<i>For >100 To 250, Deduct</i>	-2.10	
				<i>For >250 To 500, Deduct</i>	-2.63	
				<i>For >500, Deduct</i>	-3.15	
05 05 23 00-0420	EA			3/4" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	16.04	
				<i>For >100 To 250, Deduct</i>	-2.15	
				<i>For >250 To 500, Deduct</i>	-2.69	
				<i>For >500, Deduct</i>	-3.22	
05 05 23 00-0421	EA			3/4" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	16.53	
				<i>For >100 To 250, Deduct</i>	-2.15	
				<i>For >250 To 500, Deduct</i>	-2.69	
				<i>For >500, Deduct</i>	-3.22	
05 05 23 00-0422	EA			3/4" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	17.56	
				<i>For >100 To 250, Deduct</i>	-2.15	
				<i>For >250 To 500, Deduct</i>	-2.69	
				<i>For >500, Deduct</i>	-3.22	
05 05 23 00-0423	EA			3/4" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	18.27	
				<i>For >100 To 250, Deduct</i>	-2.19	
				<i>For >250 To 500, Deduct</i>	-2.74	
				<i>For >500, Deduct</i>	-3.29	
05 05 23 00-0424	EA			3/4" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	19.12	
				<i>For >100 To 250, Deduct</i>	-2.19	
				<i>For >250 To 500, Deduct</i>	-2.74	
				<i>For >500, Deduct</i>	-3.29	
05 05 23 00-0425	EA			3/4" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	20.16	
				<i>For >100 To 250, Deduct</i>	-2.19	
				<i>For >250 To 500, Deduct</i>	-2.74	
				<i>For >500, Deduct</i>	-3.29	
05 05 23 00-0426	EA			3/4" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	21.87	
				<i>For >100 To 250, Deduct</i>	-2.24	
				<i>For >250 To 500, Deduct</i>	-2.80	
				<i>For >500, Deduct</i>	-3.36	
05 05 23 00-0427	EA			3/4" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	22.95	
				<i>For >100 To 250, Deduct</i>	-2.24	
				<i>For >250 To 500, Deduct</i>	-2.80	
				<i>For >500, Deduct</i>	-3.36	
05 05 23 00-0428	EA			3/4" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	23.56	
				<i>For >100 To 250, Deduct</i>	-2.24	
				<i>For >250 To 500, Deduct</i>	-2.80	
				<i>For >500, Deduct</i>	-3.36	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0429	EA		3/4" Diameter x 8-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	25.41	
			<i>For >100 To 250, Deduct</i>	-2.29	
			<i>For >250 To 500, Deduct</i>	-2.86	
			<i>For >500, Deduct</i>	-3.43	
05 05 23 00-0430	EA		3/4" Diameter x 9" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	25.96	
			<i>For >100 To 250, Deduct</i>	-2.29	
			<i>For >250 To 500, Deduct</i>	-2.86	
			<i>For >500, Deduct</i>	-3.43	
05 05 23 00-0431	EA		3/4" Diameter x 9-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	27.75	
			<i>For >100 To 250, Deduct</i>	-2.29	
			<i>For >250 To 500, Deduct</i>	-2.86	
			<i>For >500, Deduct</i>	-3.43	
05 05 23 00-0432	EA		3/4" Diameter x 10" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	28.19	
			<i>For >100 To 250, Deduct</i>	-2.29	
			<i>For >250 To 500, Deduct</i>	-2.86	
			<i>For >500, Deduct</i>	-3.43	
05 05 23 00-0433			7/8" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts (05 05 23 00-0285)		
05 05 23 00-0434	EA		7/8" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	15.63	
			<i>For >100 To 250, Deduct</i>	-2.29	
			<i>For >250 To 500, Deduct</i>	-2.86	
			<i>For >500, Deduct</i>	-3.43	
05 05 23 00-0435	EA		7/8" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	15.87	
			<i>For >100 To 250, Deduct</i>	-2.29	
			<i>For >250 To 500, Deduct</i>	-2.86	
			<i>For >500, Deduct</i>	-3.43	
05 05 23 00-0436	EA		7/8" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	16.21	
			<i>For >100 To 250, Deduct</i>	-2.29	
			<i>For >250 To 500, Deduct</i>	-2.86	
			<i>For >500, Deduct</i>	-3.43	
05 05 23 00-0437	EA		7/8" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	16.77	
			<i>For >100 To 250, Deduct</i>	-2.33	
			<i>For >250 To 500, Deduct</i>	-2.92	
			<i>For >500, Deduct</i>	-3.50	
05 05 23 00-0438	EA		7/8" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	17.78	
			<i>For >100 To 250, Deduct</i>	-2.33	
			<i>For >250 To 500, Deduct</i>	-2.92	
			<i>For >500, Deduct</i>	-3.50	
05 05 23 00-0439	EA		7/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	18.45	
			<i>For >100 To 250, Deduct</i>	-2.33	
			<i>For >250 To 500, Deduct</i>	-2.92	
			<i>For >500, Deduct</i>	-3.50	
05 05 23 00-0440	EA		7/8" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	19.19	
			<i>For >100 To 250, Deduct</i>	-2.38	
			<i>For >250 To 500, Deduct</i>	-2.97	
			<i>For >500, Deduct</i>	-3.57	
05 05 23 00-0441	EA		7/8" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	20.38	
			<i>For >100 To 250, Deduct</i>	-2.38	
			<i>For >250 To 500, Deduct</i>	-2.97	
			<i>For >500, Deduct</i>	-3.57	
05 05 23 00-0442	EA		7/8" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	21.28	
			<i>For >100 To 250, Deduct</i>	-2.38	
			<i>For >250 To 500, Deduct</i>	-2.97	
			<i>For >500, Deduct</i>	-3.57	
05 05 23 00-0443	EA		7/8" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	21.93	
			<i>For >100 To 250, Deduct</i>	-2.42	
			<i>For >250 To 500, Deduct</i>	-3.03	
			<i>For >500, Deduct</i>	-3.64	
05 05 23 00-0444	EA		7/8" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	22.68	
			<i>For >100 To 250, Deduct</i>	-2.42	
			<i>For >250 To 500, Deduct</i>	-3.03	
			<i>For >500, Deduct</i>	-3.64	
05 05 23 00-0445	EA		7/8" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	25.89	
			<i>For >100 To 250, Deduct</i>	-2.42	
			<i>For >250 To 500, Deduct</i>	-3.03	
			<i>For >500, Deduct</i>	-3.64	
05 05 23 00-0446	EA		7/8" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	27.25	
			<i>For >100 To 250, Deduct</i>	-2.47	
			<i>For >250 To 500, Deduct</i>	-3.09	
			<i>For >500, Deduct</i>	-3.70	
05 05 23 00-0447	EA		7/8" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	28.66	
			<i>For >100 To 250, Deduct</i>	-2.47	
			<i>For >250 To 500, Deduct</i>	-3.09	
			<i>For >500, Deduct</i>	-3.70	
05 05 23 00-0448	EA		7/8" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	28.75	
			<i>For >100 To 250, Deduct</i>	-2.47	
			<i>For >250 To 500, Deduct</i>	-3.09	
			<i>For >500, Deduct</i>	-3.70	
05 05 23 00-0449	EA		7/8" Diameter x 8-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	31.01	
			<i>For >100 To 250, Deduct</i>	-2.51	
			<i>For >250 To 500, Deduct</i>	-3.14	
			<i>For >500, Deduct</i>	-3.77	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0450	EA		7/8" Diameter x 9" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	32.38	
			<i>For >100 To 250, Deduct</i>	-2.51	
			<i>For >250 To 500, Deduct</i>	-3.14	
			<i>For >500, Deduct</i>	-3.77	
05 05 23 00-0451	EA		7/8" Diameter x 9-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	33.56	
			<i>For >100 To 250, Deduct</i>	-2.51	
			<i>For >250 To 500, Deduct</i>	-3.14	
			<i>For >500, Deduct</i>	-3.77	
05 05 23 00-0452	EA		7/8" Diameter x 10" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	34.73	
			<i>For >100 To 250, Deduct</i>	-2.51	
			<i>For >250 To 500, Deduct</i>	-3.14	
			<i>For >500, Deduct</i>	-3.77	
05 05 23 00-0453			1" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts <small>(05 05 23 00-0285)</small>		
05 05 23 00-0454	EA		1" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	17.87	
			<i>For >100 To 250, Deduct</i>	-2.29	
			<i>For >250 To 500, Deduct</i>	-2.86	
			<i>For >500, Deduct</i>	-3.43	
05 05 23 00-0455	EA		1" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	17.95	
			<i>For >100 To 250, Deduct</i>	-2.29	
			<i>For >250 To 500, Deduct</i>	-2.86	
			<i>For >500, Deduct</i>	-3.43	
05 05 23 00-0456	EA		1" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	18.93	
			<i>For >100 To 250, Deduct</i>	-2.33	
			<i>For >250 To 500, Deduct</i>	-2.92	
			<i>For >500, Deduct</i>	-3.50	
05 05 23 00-0457	EA		1" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	19.90	
			<i>For >100 To 250, Deduct</i>	-2.33	
			<i>For >250 To 500, Deduct</i>	-2.92	
			<i>For >500, Deduct</i>	-3.50	
05 05 23 00-0458	EA		1" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	20.62	
			<i>For >100 To 250, Deduct</i>	-2.33	
			<i>For >250 To 500, Deduct</i>	-2.92	
			<i>For >500, Deduct</i>	-3.50	
05 05 23 00-0459	EA		1" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	21.77	
			<i>For >100 To 250, Deduct</i>	-2.38	
			<i>For >250 To 500, Deduct</i>	-2.97	
			<i>For >500, Deduct</i>	-3.57	
05 05 23 00-0460	EA		1" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	22.91	
			<i>For >100 To 250, Deduct</i>	-2.38	
			<i>For >250 To 500, Deduct</i>	-2.97	
			<i>For >500, Deduct</i>	-3.57	
05 05 23 00-0461	EA		1" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	24.57	
			<i>For >100 To 250, Deduct</i>	-2.38	
			<i>For >250 To 500, Deduct</i>	-2.97	
			<i>For >500, Deduct</i>	-3.57	
05 05 23 00-0462	EA		1" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	26.00	
			<i>For >100 To 250, Deduct</i>	-2.42	
			<i>For >250 To 500, Deduct</i>	-3.03	
			<i>For >500, Deduct</i>	-3.64	
05 05 23 00-0463	EA		1" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	26.35	
			<i>For >100 To 250, Deduct</i>	-2.42	
			<i>For >250 To 500, Deduct</i>	-3.03	
			<i>For >500, Deduct</i>	-3.64	
05 05 23 00-0464	EA		1" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	28.67	
			<i>For >100 To 250, Deduct</i>	-2.42	
			<i>For >250 To 500, Deduct</i>	-3.03	
			<i>For >500, Deduct</i>	-3.64	
05 05 23 00-0465	EA		1" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	30.38	
			<i>For >100 To 250, Deduct</i>	-2.47	
			<i>For >250 To 500, Deduct</i>	-3.09	
			<i>For >500, Deduct</i>	-3.70	
05 05 23 00-0466	EA		1" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	32.85	
			<i>For >100 To 250, Deduct</i>	-2.47	
			<i>For >250 To 500, Deduct</i>	-3.09	
			<i>For >500, Deduct</i>	-3.70	
05 05 23 00-0467	EA		1" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	33.56	
			<i>For >100 To 250, Deduct</i>	-2.47	
			<i>For >250 To 500, Deduct</i>	-3.09	
			<i>For >500, Deduct</i>	-3.70	
05 05 23 00-0468	EA		1" Diameter x 8-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	41.71	
			<i>For >100 To 250, Deduct</i>	-2.51	
			<i>For >250 To 500, Deduct</i>	-3.14	
			<i>For >500, Deduct</i>	-3.77	
05 05 23 00-0469	EA		1" Diameter x 9" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	42.33	
			<i>For >100 To 250, Deduct</i>	-2.51	
			<i>For >250 To 500, Deduct</i>	-3.14	
			<i>For >500, Deduct</i>	-3.77	
05 05 23 00-0470	EA		1" Diameter x 9-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	44.03	
			<i>For >100 To 250, Deduct</i>	-2.51	
			<i>For >250 To 500, Deduct</i>	-3.14	
			<i>For >500, Deduct</i>	-3.77	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0471 EA 1" Diameter x 10" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	45.19	
For >100 To 250, Deduct	-2.51	
For >250 To 500, Deduct	-3.14	
For >500, Deduct	-3.77	
05 05 23 00-0472 Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0097)		
05 05 23 00-0473 1/4" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0472)		
05 05 23 00-0474 EA 1/4" Diameter x 1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	8.22	
For >100 To 250, Deduct	-1.60	
For >250 To 500, Deduct	-2.00	
For >500, Deduct	-2.40	
05 05 23 00-0475 EA 1/4" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	8.34	
For >100 To 250, Deduct	-1.60	
For >250 To 500, Deduct	-2.00	
For >500, Deduct	-2.40	
05 05 23 00-0476 EA 1/4" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	8.40	
For >100 To 250, Deduct	-1.60	
For >250 To 500, Deduct	-2.00	
For >500, Deduct	-2.40	
05 05 23 00-0477 EA 1/4" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	8.53	
For >100 To 250, Deduct	-1.60	
For >250 To 500, Deduct	-2.00	
For >500, Deduct	-2.40	
05 05 23 00-0478 EA 1/4" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	8.84	
For >100 To 250, Deduct	-1.65	
For >250 To 500, Deduct	-2.06	
For >500, Deduct	-2.47	
05 05 23 00-0479 EA 1/4" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	8.98	
For >100 To 250, Deduct	-1.65	
For >250 To 500, Deduct	-2.06	
For >500, Deduct	-2.47	
05 05 23 00-0480 EA 1/4" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	9.11	
For >100 To 250, Deduct	-1.65	
For >250 To 500, Deduct	-2.06	
For >500, Deduct	-2.47	
05 05 23 00-0481 EA 1/4" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	9.35	
For >100 To 250, Deduct	-1.69	
For >250 To 500, Deduct	-2.12	
For >500, Deduct	-2.54	
05 05 23 00-0482 EA 1/4" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	9.73	
For >100 To 250, Deduct	-1.69	
For >250 To 500, Deduct	-2.12	
For >500, Deduct	-2.54	
05 05 23 00-0483 EA 1/4" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	10.09	
For >100 To 250, Deduct	-1.69	
For >250 To 500, Deduct	-2.12	
For >500, Deduct	-2.54	
05 05 23 00-0484 EA 1/4" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	10.51	
For >100 To 250, Deduct	-1.74	
For >250 To 500, Deduct	-2.17	
For >500, Deduct	-2.61	
05 05 23 00-0485 EA 1/4" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	10.70	
For >100 To 250, Deduct	-1.74	
For >250 To 500, Deduct	-2.17	
For >500, Deduct	-2.61	
05 05 23 00-0486 EA 1/4" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	10.95	
For >100 To 250, Deduct	-1.74	
For >250 To 500, Deduct	-2.17	
For >500, Deduct	-2.61	
05 05 23 00-0487 EA 1/4" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	11.34	
For >100 To 250, Deduct	-1.78	
For >250 To 500, Deduct	-2.23	
For >500, Deduct	-2.67	
05 05 23 00-0488 EA 1/4" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	11.81	
For >100 To 250, Deduct	-1.78	
For >250 To 500, Deduct	-2.23	
For >500, Deduct	-2.67	
05 05 23 00-0489 EA 1/4" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	12.02	
For >100 To 250, Deduct	-1.78	
For >250 To 500, Deduct	-2.23	
For >500, Deduct	-2.67	
05 05 23 00-0490 5/16" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0472)		
05 05 23 00-0491 EA 5/16" Diameter x 1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	8.33	
For >100 To 250, Deduct	-1.60	
For >250 To 500, Deduct	-2.00	
For >500, Deduct	-2.40	
05 05 23 00-0492 EA 5/16" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	8.40	
For >100 To 250, Deduct	-1.60	
For >250 To 500, Deduct	-2.00	
For >500, Deduct	-2.40	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	05 05 23 00-0493	EA		5/16" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	8.63	
				<i>For >100 To 250, Deduct</i>	-1.60	
				<i>For >250 To 500, Deduct</i>	-2.00	
				<i>For >500, Deduct</i>	-2.40	
	05 05 23 00-0494	EA		5/16" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.67	
				<i>For >100 To 250, Deduct</i>	-1.60	
				<i>For >250 To 500, Deduct</i>	-2.00	
				<i>For >500, Deduct</i>	-2.40	
	05 05 23 00-0495	EA		5/16" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	9.03	
				<i>For >100 To 250, Deduct</i>	-1.65	
				<i>For >250 To 500, Deduct</i>	-2.06	
				<i>For >500, Deduct</i>	-2.47	
	05 05 23 00-0496	EA		5/16" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.37	
				<i>For >100 To 250, Deduct</i>	-1.65	
				<i>For >250 To 500, Deduct</i>	-2.06	
				<i>For >500, Deduct</i>	-2.47	
	05 05 23 00-0497	EA		5/16" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	9.47	
				<i>For >100 To 250, Deduct</i>	-1.65	
				<i>For >250 To 500, Deduct</i>	-2.06	
				<i>For >500, Deduct</i>	-2.47	
	05 05 23 00-0498	EA		5/16" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.89	
				<i>For >100 To 250, Deduct</i>	-1.69	
				<i>For >250 To 500, Deduct</i>	-2.12	
				<i>For >500, Deduct</i>	-2.54	
	05 05 23 00-0499	EA		5/16" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	10.11	
				<i>For >100 To 250, Deduct</i>	-1.69	
				<i>For >250 To 500, Deduct</i>	-2.12	
				<i>For >500, Deduct</i>	-2.54	
	05 05 23 00-0500	EA		5/16" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.60	
				<i>For >100 To 250, Deduct</i>	-1.69	
				<i>For >250 To 500, Deduct</i>	-2.12	
				<i>For >500, Deduct</i>	-2.54	
	05 05 23 00-0501	EA		5/16" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	11.12	
				<i>For >100 To 250, Deduct</i>	-1.74	
				<i>For >250 To 500, Deduct</i>	-2.17	
				<i>For >500, Deduct</i>	-2.61	
	05 05 23 00-0502	EA		5/16" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.30	
				<i>For >100 To 250, Deduct</i>	-1.74	
				<i>For >250 To 500, Deduct</i>	-2.17	
				<i>For >500, Deduct</i>	-2.61	
	05 05 23 00-0503	EA		5/16" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	11.59	
				<i>For >100 To 250, Deduct</i>	-1.74	
				<i>For >250 To 500, Deduct</i>	-2.17	
				<i>For >500, Deduct</i>	-2.61	
	05 05 23 00-0504	EA		5/16" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	12.01	
				<i>For >100 To 250, Deduct</i>	-1.78	
				<i>For >250 To 500, Deduct</i>	-2.23	
				<i>For >500, Deduct</i>	-2.67	
	05 05 23 00-0505	EA		5/16" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	12.22	
				<i>For >100 To 250, Deduct</i>	-1.78	
				<i>For >250 To 500, Deduct</i>	-2.23	
				<i>For >500, Deduct</i>	-2.67	
	05 05 23 00-0506	EA		5/16" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	12.63	
				<i>For >100 To 250, Deduct</i>	-1.78	
				<i>For >250 To 500, Deduct</i>	-2.23	
				<i>For >500, Deduct</i>	-2.67	
	05 05 23 00-0507			3/8" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts <small>(05 05 23 00-0472)</small>		
	05 05 23 00-0508	EA		3/8" Diameter x 1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.57	
				<i>For >100 To 250, Deduct</i>	-1.60	
				<i>For >250 To 500, Deduct</i>	-2.00	
				<i>For >500, Deduct</i>	-2.40	
	05 05 23 00-0509	EA		3/8" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.60	
				<i>For >100 To 250, Deduct</i>	-1.60	
				<i>For >250 To 500, Deduct</i>	-2.00	
				<i>For >500, Deduct</i>	-2.40	
	05 05 23 00-0510	EA		3/8" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	8.61	
				<i>For >100 To 250, Deduct</i>	-1.60	
				<i>For >250 To 500, Deduct</i>	-2.00	
				<i>For >500, Deduct</i>	-2.40	
	05 05 23 00-0511	EA		3/8" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.88	
				<i>For >100 To 250, Deduct</i>	-1.60	
				<i>For >250 To 500, Deduct</i>	-2.00	
				<i>For >500, Deduct</i>	-2.40	
	05 05 23 00-0512	EA		3/8" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	9.26	
				<i>For >100 To 250, Deduct</i>	-1.65	
				<i>For >250 To 500, Deduct</i>	-2.06	
				<i>For >500, Deduct</i>	-2.47	
	05 05 23 00-0513	EA		3/8" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.53	
				<i>For >100 To 250, Deduct</i>	-1.65	
				<i>For >250 To 500, Deduct</i>	-2.06	
				<i>For >500, Deduct</i>	-2.47	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0514	EA		3/8" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	9.77	
			<i>For >100 To 250, Deduct</i>	-1.65	
			<i>For >250 To 500, Deduct</i>	-2.06	
			<i>For >500, Deduct</i>	-2.47	
05 05 23 00-0515	EA		3/8" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.76	
			<i>For >100 To 250, Deduct</i>	-1.69	
			<i>For >250 To 500, Deduct</i>	-2.12	
			<i>For >500, Deduct</i>	-2.54	
05 05 23 00-0516	EA		3/8" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	11.07	
			<i>For >100 To 250, Deduct</i>	-1.69	
			<i>For >250 To 500, Deduct</i>	-2.12	
			<i>For >500, Deduct</i>	-2.54	
05 05 23 00-0517	EA		3/8" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.13	
			<i>For >100 To 250, Deduct</i>	-1.69	
			<i>For >250 To 500, Deduct</i>	-2.12	
			<i>For >500, Deduct</i>	-2.54	
05 05 23 00-0518	EA		3/8" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	11.48	
			<i>For >100 To 250, Deduct</i>	-1.74	
			<i>For >250 To 500, Deduct</i>	-2.17	
			<i>For >500, Deduct</i>	-2.61	
05 05 23 00-0519	EA		3/8" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.82	
			<i>For >100 To 250, Deduct</i>	-1.74	
			<i>For >250 To 500, Deduct</i>	-2.17	
			<i>For >500, Deduct</i>	-2.61	
05 05 23 00-0520	EA		3/8" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	13.31	
			<i>For >100 To 250, Deduct</i>	-1.74	
			<i>For >250 To 500, Deduct</i>	-2.17	
			<i>For >500, Deduct</i>	-2.61	
05 05 23 00-0521	EA		3/8" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	13.89	
			<i>For >100 To 250, Deduct</i>	-1.78	
			<i>For >250 To 500, Deduct</i>	-2.23	
			<i>For >500, Deduct</i>	-2.67	
05 05 23 00-0522	EA		3/8" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	14.56	
			<i>For >100 To 250, Deduct</i>	-1.78	
			<i>For >250 To 500, Deduct</i>	-2.23	
			<i>For >500, Deduct</i>	-2.67	
05 05 23 00-0523	EA		3/8" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	16.13	
			<i>For >100 To 250, Deduct</i>	-1.78	
			<i>For >250 To 500, Deduct</i>	-2.23	
			<i>For >500, Deduct</i>	-2.67	
05 05 23 00-0524			7/16" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts <small>(05 05 23 00-0472)</small>		
05 05 23 00-0525	EA		7/16" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.97	
			<i>For >100 To 250, Deduct</i>	-1.83	
			<i>For >250 To 500, Deduct</i>	-2.29	
			<i>For >500, Deduct</i>	-2.74	
05 05 23 00-0526	EA		7/16" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	10.01	
			<i>For >100 To 250, Deduct</i>	-1.83	
			<i>For >250 To 500, Deduct</i>	-2.29	
			<i>For >500, Deduct</i>	-2.74	
05 05 23 00-0527	EA		7/16" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.43	
			<i>For >100 To 250, Deduct</i>	-1.83	
			<i>For >250 To 500, Deduct</i>	-2.29	
			<i>For >500, Deduct</i>	-2.74	
05 05 23 00-0528	EA		7/16" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	10.70	
			<i>For >100 To 250, Deduct</i>	-1.87	
			<i>For >250 To 500, Deduct</i>	-2.34	
			<i>For >500, Deduct</i>	-2.81	
05 05 23 00-0529	EA		7/16" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.17	
			<i>For >100 To 250, Deduct</i>	-1.87	
			<i>For >250 To 500, Deduct</i>	-2.34	
			<i>For >500, Deduct</i>	-2.81	
05 05 23 00-0530	EA		7/16" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	11.43	
			<i>For >100 To 250, Deduct</i>	-1.87	
			<i>For >250 To 500, Deduct</i>	-2.34	
			<i>For >500, Deduct</i>	-2.81	
05 05 23 00-0531	EA		7/16" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.71	
			<i>For >100 To 250, Deduct</i>	-1.92	
			<i>For >250 To 500, Deduct</i>	-2.40	
			<i>For >500, Deduct</i>	-2.88	
05 05 23 00-0532	EA		7/16" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	12.76	
			<i>For >100 To 250, Deduct</i>	-1.92	
			<i>For >250 To 500, Deduct</i>	-2.40	
			<i>For >500, Deduct</i>	-2.88	
05 05 23 00-0533	EA		7/16" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	13.58	
			<i>For >100 To 250, Deduct</i>	-1.92	
			<i>For >250 To 500, Deduct</i>	-2.40	
			<i>For >500, Deduct</i>	-2.88	
05 05 23 00-0534	EA		7/16" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	14.36	
			<i>For >100 To 250, Deduct</i>	-1.97	
			<i>For >250 To 500, Deduct</i>	-2.46	
			<i>For >500, Deduct</i>	-2.95	



	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0535	EA 7/16" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt..... <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	14.65	-1.97 -2.46 -2.95	
05 05 23 00-0536	EA 7/16" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	15.08	-1.97 -2.46 -2.95	
05 05 23 00-0537	EA 7/16" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt..... <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	15.95	-2.01 -2.52 -3.02	
05 05 23 00-0538	EA 7/16" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	17.34	-2.01 -2.52 -3.02	
05 05 23 00-0539	EA 7/16" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt..... <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	17.45	-2.01 -2.52 -3.02	
05 05 23 00-0540	1/2" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0472)			
05 05 23 00-0541	EA 1/2" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt..... <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	10.24	-1.83 -2.29 -2.74	
05 05 23 00-0542	EA 1/2" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	10.55	-1.83 -2.29 -2.74	
05 05 23 00-0543	EA 1/2" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt..... <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	10.74	-1.83 -2.29 -2.74	
05 05 23 00-0544	EA 1/2" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	11.17	-1.87 -2.34 -2.81	
05 05 23 00-0545	EA 1/2" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt..... <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	11.51	-1.87 -2.34 -2.81	
05 05 23 00-0546	EA 1/2" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	12.27	-1.87 -2.34 -2.81	
05 05 23 00-0547	EA 1/2" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt..... <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	13.03	-1.92 -2.40 -2.88	
05 05 23 00-0548	EA 1/2" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	13.48	-1.92 -2.40 -2.88	
05 05 23 00-0549	EA 1/2" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt..... <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	13.80	-1.92 -2.40 -2.88	
05 05 23 00-0550	EA 1/2" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	14.58	-1.97 -2.46 -2.95	
05 05 23 00-0551	EA 1/2" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt..... <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	15.54	-1.97 -2.46 -2.95	
05 05 23 00-0552	EA 1/2" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	16.42	-1.97 -2.46 -2.95	
05 05 23 00-0553	EA 1/2" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt..... <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	17.42	-2.01 -2.52 -3.02	
05 05 23 00-0554	EA 1/2" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	17.81	-2.01 -2.52 -3.02	
05 05 23 00-0555	EA 1/2" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt..... <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	18.91	-2.01 -2.52 -3.02	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0556	EA		1/2" Diameter x 8-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	20.97	
			<i>For >100 To 250, Deduct</i>	-2.06	
			<i>For >250 To 500, Deduct</i>	-2.57	
			<i>For >500, Deduct</i>	-3.09	
05 05 23 00-0557	EA		1/2" Diameter x 9" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	21.77	
			<i>For >100 To 250, Deduct</i>	-2.06	
			<i>For >250 To 500, Deduct</i>	-2.57	
			<i>For >500, Deduct</i>	-3.09	
05 05 23 00-0558	EA		1/2" Diameter x 9-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	22.18	
			<i>For >100 To 250, Deduct</i>	-2.06	
			<i>For >250 To 500, Deduct</i>	-2.57	
			<i>For >500, Deduct</i>	-3.09	
05 05 23 00-0559	EA		1/2" Diameter x 10" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	24.15	
			<i>For >100 To 250, Deduct</i>	-2.06	
			<i>For >250 To 500, Deduct</i>	-2.57	
			<i>For >500, Deduct</i>	-3.09	
05 05 23 00-0560			9/16" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts <small>(05 05 23 00-0472)</small>		
05 05 23 00-0561	EA		9/16" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.53	
			<i>For >100 To 250, Deduct</i>	-1.83	
			<i>For >250 To 500, Deduct</i>	-2.29	
			<i>For >500, Deduct</i>	-2.74	
05 05 23 00-0562	EA		9/16" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	10.71	
			<i>For >100 To 250, Deduct</i>	-1.83	
			<i>For >250 To 500, Deduct</i>	-2.29	
			<i>For >500, Deduct</i>	-2.74	
05 05 23 00-0563	EA		9/16" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.14	
			<i>For >100 To 250, Deduct</i>	-1.83	
			<i>For >250 To 500, Deduct</i>	-2.29	
			<i>For >500, Deduct</i>	-2.74	
05 05 23 00-0564	EA		9/16" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	12.00	
			<i>For >100 To 250, Deduct</i>	-1.87	
			<i>For >250 To 500, Deduct</i>	-2.34	
			<i>For >500, Deduct</i>	-2.81	
05 05 23 00-0565	EA		9/16" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	12.15	
			<i>For >100 To 250, Deduct</i>	-1.87	
			<i>For >250 To 500, Deduct</i>	-2.34	
			<i>For >500, Deduct</i>	-2.81	
05 05 23 00-0566	EA		9/16" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	12.77	
			<i>For >100 To 250, Deduct</i>	-1.87	
			<i>For >250 To 500, Deduct</i>	-2.34	
			<i>For >500, Deduct</i>	-2.81	
05 05 23 00-0567	EA		9/16" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	13.42	
			<i>For >100 To 250, Deduct</i>	-1.92	
			<i>For >250 To 500, Deduct</i>	-2.40	
			<i>For >500, Deduct</i>	-2.88	
05 05 23 00-0568	EA		9/16" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	15.46	
			<i>For >100 To 250, Deduct</i>	-1.92	
			<i>For >250 To 500, Deduct</i>	-2.40	
			<i>For >500, Deduct</i>	-2.88	
05 05 23 00-0569	EA		9/16" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	15.86	
			<i>For >100 To 250, Deduct</i>	-1.92	
			<i>For >250 To 500, Deduct</i>	-2.40	
			<i>For >500, Deduct</i>	-2.88	
05 05 23 00-0570	EA		9/16" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	16.41	
			<i>For >100 To 250, Deduct</i>	-1.97	
			<i>For >250 To 500, Deduct</i>	-2.46	
			<i>For >500, Deduct</i>	-2.95	
05 05 23 00-0571	EA		9/16" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	17.29	
			<i>For >100 To 250, Deduct</i>	-1.97	
			<i>For >250 To 500, Deduct</i>	-2.46	
			<i>For >500, Deduct</i>	-2.95	
05 05 23 00-0572	EA		9/16" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	20.64	
			<i>For >100 To 250, Deduct</i>	-1.97	
			<i>For >250 To 500, Deduct</i>	-2.46	
			<i>For >500, Deduct</i>	-2.95	
05 05 23 00-0573	EA		9/16" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	24.79	
			<i>For >100 To 250, Deduct</i>	-2.01	
			<i>For >250 To 500, Deduct</i>	-2.52	
			<i>For >500, Deduct</i>	-3.02	
05 05 23 00-0574	EA		9/16" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	29.63	
			<i>For >100 To 250, Deduct</i>	-2.01	
			<i>For >250 To 500, Deduct</i>	-2.52	
			<i>For >500, Deduct</i>	-3.02	
05 05 23 00-0575	EA		9/16" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	34.89	
			<i>For >100 To 250, Deduct</i>	-2.01	
			<i>For >250 To 500, Deduct</i>	-2.52	
			<i>For >500, Deduct</i>	-3.02	

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



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0577 EA 5/8" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	12.34	
<i>For >100 To 250, Deduct</i>	-2.06	
<i>For >250 To 500, Deduct</i>	-2.57	
<i>For >500, Deduct</i>	-3.09	
05 05 23 00-0578 EA 5/8" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	12.52	
<i>For >100 To 250, Deduct</i>	-2.06	
<i>For >250 To 500, Deduct</i>	-2.57	
<i>For >500, Deduct</i>	-3.09	
05 05 23 00-0579 EA 5/8" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	12.99	
<i>For >100 To 250, Deduct</i>	-2.06	
<i>For >250 To 500, Deduct</i>	-2.57	
<i>For >500, Deduct</i>	-3.09	
05 05 23 00-0580 EA 5/8" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	13.90	
<i>For >100 To 250, Deduct</i>	-2.10	
<i>For >250 To 500, Deduct</i>	-2.63	
<i>For >500, Deduct</i>	-3.15	
05 05 23 00-0581 EA 5/8" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	14.46	
<i>For >100 To 250, Deduct</i>	-2.10	
<i>For >250 To 500, Deduct</i>	-2.63	
<i>For >500, Deduct</i>	-3.15	
05 05 23 00-0582 EA 5/8" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	14.77	
<i>For >100 To 250, Deduct</i>	-2.10	
<i>For >250 To 500, Deduct</i>	-2.63	
<i>For >500, Deduct</i>	-3.15	
05 05 23 00-0583 EA 5/8" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	15.21	
<i>For >100 To 250, Deduct</i>	-2.15	
<i>For >250 To 500, Deduct</i>	-2.69	
<i>For >500, Deduct</i>	-3.22	
05 05 23 00-0584 EA 5/8" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	16.22	
<i>For >100 To 250, Deduct</i>	-2.15	
<i>For >250 To 500, Deduct</i>	-2.69	
<i>For >500, Deduct</i>	-3.22	
05 05 23 00-0585 EA 5/8" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	16.66	
<i>For >100 To 250, Deduct</i>	-2.15	
<i>For >250 To 500, Deduct</i>	-2.69	
<i>For >500, Deduct</i>	-3.22	
05 05 23 00-0586 EA 5/8" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	17.37	
<i>For >100 To 250, Deduct</i>	-2.19	
<i>For >250 To 500, Deduct</i>	-2.74	
<i>For >500, Deduct</i>	-3.29	
05 05 23 00-0587 EA 5/8" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	17.84	
<i>For >100 To 250, Deduct</i>	-2.19	
<i>For >250 To 500, Deduct</i>	-2.74	
<i>For >500, Deduct</i>	-3.29	
05 05 23 00-0588 EA 5/8" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	18.83	
<i>For >100 To 250, Deduct</i>	-2.19	
<i>For >250 To 500, Deduct</i>	-2.74	
<i>For >500, Deduct</i>	-3.29	
05 05 23 00-0589 EA 5/8" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	21.41	
<i>For >100 To 250, Deduct</i>	-2.24	
<i>For >250 To 500, Deduct</i>	-2.80	
<i>For >500, Deduct</i>	-3.36	
05 05 23 00-0590 EA 5/8" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	22.54	
<i>For >100 To 250, Deduct</i>	-2.24	
<i>For >250 To 500, Deduct</i>	-2.80	
<i>For >500, Deduct</i>	-3.36	
05 05 23 00-0591 EA 5/8" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	23.01	
<i>For >100 To 250, Deduct</i>	-2.24	
<i>For >250 To 500, Deduct</i>	-2.80	
<i>For >500, Deduct</i>	-3.36	
05 05 23 00-0592 EA 5/8" Diameter x 8-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	25.24	
<i>For >100 To 250, Deduct</i>	-2.29	
<i>For >250 To 500, Deduct</i>	-2.86	
<i>For >500, Deduct</i>	-3.43	
05 05 23 00-0593 EA 5/8" Diameter x 9" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	27.46	
<i>For >100 To 250, Deduct</i>	-2.29	
<i>For >250 To 500, Deduct</i>	-2.86	
<i>For >500, Deduct</i>	-3.43	
05 05 23 00-0594 EA 5/8" Diameter x 9-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	27.63	
<i>For >100 To 250, Deduct</i>	-2.29	
<i>For >250 To 500, Deduct</i>	-2.86	
<i>For >500, Deduct</i>	-3.43	
05 05 23 00-0595 EA 5/8" Diameter x 10" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	29.69	
<i>For >100 To 250, Deduct</i>	-2.29	
<i>For >250 To 500, Deduct</i>	-2.86	
<i>For >500, Deduct</i>	-3.43	
05 05 23 00-0596 3/4" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0472)		
05 05 23 00-0597 EA 3/4" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	13.39	
<i>For >100 To 250, Deduct</i>	-2.06	
<i>For >250 To 500, Deduct</i>	-2.57	
<i>For >500, Deduct</i>	-3.09	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0598 EA 3/4" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	13.59	
For>100 To 250, Deduct	-2.06	
For>250 To 500, Deduct	-2.57	
For>500, Deduct	-3.09	
05 05 23 00-0599 EA 3/4" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	13.72	
For>100 To 250, Deduct	-2.06	
For>250 To 500, Deduct	-2.57	
For>500, Deduct	-3.09	
05 05 23 00-0600 EA 3/4" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	14.23	
For>100 To 250, Deduct	-2.10	
For>250 To 500, Deduct	-2.63	
For>500, Deduct	-3.15	
05 05 23 00-0601 EA 3/4" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	14.65	
For>100 To 250, Deduct	-2.10	
For>250 To 500, Deduct	-2.63	
For>500, Deduct	-3.15	
05 05 23 00-0602 EA 3/4" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	15.85	
For>100 To 250, Deduct	-2.10	
For>250 To 500, Deduct	-2.63	
For>500, Deduct	-3.15	
05 05 23 00-0603 EA 3/4" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	16.59	
For>100 To 250, Deduct	-2.15	
For>250 To 500, Deduct	-2.69	
For>500, Deduct	-3.22	
05 05 23 00-0604 EA 3/4" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	16.69	
For>100 To 250, Deduct	-2.15	
For>250 To 500, Deduct	-2.69	
For>500, Deduct	-3.22	
05 05 23 00-0605 EA 3/4" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	18.33	
For>100 To 250, Deduct	-2.15	
For>250 To 500, Deduct	-2.69	
For>500, Deduct	-3.22	
05 05 23 00-0606 EA 3/4" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	19.15	
For>100 To 250, Deduct	-2.19	
For>250 To 500, Deduct	-2.74	
For>500, Deduct	-3.29	
05 05 23 00-0607 EA 3/4" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	20.01	
For>100 To 250, Deduct	-2.19	
For>250 To 500, Deduct	-2.74	
For>500, Deduct	-3.29	
05 05 23 00-0608 EA 3/4" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	21.61	
For>100 To 250, Deduct	-2.19	
For>250 To 500, Deduct	-2.74	
For>500, Deduct	-3.29	
05 05 23 00-0609 EA 3/4" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	23.79	
For>100 To 250, Deduct	-2.24	
For>250 To 500, Deduct	-2.80	
For>500, Deduct	-3.36	
05 05 23 00-0610 EA 3/4" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	24.65	
For>100 To 250, Deduct	-2.24	
For>250 To 500, Deduct	-2.80	
For>500, Deduct	-3.36	
05 05 23 00-0611 EA 3/4" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	25.09	
For>100 To 250, Deduct	-2.24	
For>250 To 500, Deduct	-2.80	
For>500, Deduct	-3.36	
05 05 23 00-0612 EA 3/4" Diameter x 8-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	27.43	
For>100 To 250, Deduct	-2.29	
For>250 To 500, Deduct	-2.86	
For>500, Deduct	-3.43	
05 05 23 00-0613 EA 3/4" Diameter x 9" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	28.98	
For>100 To 250, Deduct	-2.29	
For>250 To 500, Deduct	-2.86	
For>500, Deduct	-3.43	
05 05 23 00-0614 EA 3/4" Diameter x 9-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	30.10	
For>100 To 250, Deduct	-2.29	
For>250 To 500, Deduct	-2.86	
For>500, Deduct	-3.43	
05 05 23 00-0615 EA 3/4" Diameter x 10" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	30.51	
For>100 To 250, Deduct	-2.29	
For>250 To 500, Deduct	-2.86	
For>500, Deduct	-3.43	
05 05 23 00-0616 7/8" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0472)	17.43	
05 05 23 00-0617 EA 7/8" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	17.43	
For>100 To 250, Deduct	-2.29	
For>250 To 500, Deduct	-2.86	
For>500, Deduct	-3.43	
05 05 23 00-0618 EA 7/8" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	17.96	
For>100 To 250, Deduct	-2.29	
For>250 To 500, Deduct	-2.86	
For>500, Deduct	-3.43	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0619	EA			7/8" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....18.97 <i>For >100 To 250, Deduct</i> -2.33 <i>For >250 To 500, Deduct</i> -2.92 <i>For >500, Deduct</i> -3.50		
05 05 23 00-0620	EA			7/8" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....20.56 <i>For >100 To 250, Deduct</i> -2.33 <i>For >250 To 500, Deduct</i> -2.92 <i>For >500, Deduct</i> -3.50		
05 05 23 00-0621	EA			7/8" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....20.74 <i>For >100 To 250, Deduct</i> -2.33 <i>For >250 To 500, Deduct</i> -2.92 <i>For >500, Deduct</i> -3.50		
05 05 23 00-0622	EA			7/8" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....21.31 <i>For >100 To 250, Deduct</i> -2.38 <i>For >250 To 500, Deduct</i> -2.97 <i>For >500, Deduct</i> -3.57		
05 05 23 00-0623	EA			7/8" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....25.14 <i>For >100 To 250, Deduct</i> -2.38 <i>For >250 To 500, Deduct</i> -2.97 <i>For >500, Deduct</i> -3.57		
05 05 23 00-0624	EA			7/8" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....26.12 <i>For >100 To 250, Deduct</i> -2.38 <i>For >250 To 500, Deduct</i> -2.97 <i>For >500, Deduct</i> -3.57		
05 05 23 00-0625	EA			7/8" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....28.62 <i>For >100 To 250, Deduct</i> -2.42 <i>For >250 To 500, Deduct</i> -3.03 <i>For >500, Deduct</i> -3.64		
05 05 23 00-0626	EA			7/8" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....30.06 <i>For >100 To 250, Deduct</i> -2.42 <i>For >250 To 500, Deduct</i> -3.03 <i>For >500, Deduct</i> -3.64		
05 05 23 00-0627	EA			7/8" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....33.76 <i>For >100 To 250, Deduct</i> -2.42 <i>For >250 To 500, Deduct</i> -3.03 <i>For >500, Deduct</i> -3.64		
05 05 23 00-0628	EA			7/8" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....35.22 <i>For >100 To 250, Deduct</i> -2.47 <i>For >250 To 500, Deduct</i> -3.09 <i>For >500, Deduct</i> -3.70		
05 05 23 00-0629	EA			7/8" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....39.04 <i>For >100 To 250, Deduct</i> -2.47 <i>For >250 To 500, Deduct</i> -3.09 <i>For >500, Deduct</i> -3.70		
05 05 23 00-0630	EA			7/8" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....40.58 <i>For >100 To 250, Deduct</i> -2.47 <i>For >250 To 500, Deduct</i> -3.09 <i>For >500, Deduct</i> -3.70		
05 05 23 00-0631	EA			7/8" Diameter x 8-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....42.04 <i>For >100 To 250, Deduct</i> -2.51 <i>For >250 To 500, Deduct</i> -3.14 <i>For >500, Deduct</i> -3.77		
05 05 23 00-0632	EA			7/8" Diameter x 9" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....42.49 <i>For >100 To 250, Deduct</i> -2.51 <i>For >250 To 500, Deduct</i> -3.14 <i>For >500, Deduct</i> -3.77		
05 05 23 00-0633	EA			7/8" Diameter x 9-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....42.87 <i>For >100 To 250, Deduct</i> -2.51 <i>For >250 To 500, Deduct</i> -3.14 <i>For >500, Deduct</i> -3.77		
05 05 23 00-0634	EA			7/8" Diameter x 10" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....43.78 <i>For >100 To 250, Deduct</i> -2.51 <i>For >250 To 500, Deduct</i> -3.14 <i>For >500, Deduct</i> -3.77		
05 05 23 00-0635				1" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts <small>(05 05 23 00-0472)</small>		
05 05 23 00-0636	EA			1" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....18.94 <i>For >100 To 250, Deduct</i> -2.29 <i>For >250 To 500, Deduct</i> -2.86 <i>For >500, Deduct</i> -3.43		
05 05 23 00-0637	EA			1" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....20.27 <i>For >100 To 250, Deduct</i> -2.29 <i>For >250 To 500, Deduct</i> -2.86 <i>For >500, Deduct</i> -3.43		
05 05 23 00-0638	EA			1" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....21.08 <i>For >100 To 250, Deduct</i> -2.33 <i>For >250 To 500, Deduct</i> -2.92 <i>For >500, Deduct</i> -3.50		
05 05 23 00-0639	EA			1" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....22.07 <i>For >100 To 250, Deduct</i> -2.33 <i>For >250 To 500, Deduct</i> -2.92 <i>For >500, Deduct</i> -3.50		

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0640 EA 1" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	23.93	
For>100 To 250, Deduct	-2.33	
For>250 To 500, Deduct	-2.92	
For>500, Deduct	-3.50	
05 05 23 00-0641 EA 1" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	24.65	
For>100 To 250, Deduct	-2.38	
For>250 To 500, Deduct	-2.97	
For>500, Deduct	-3.57	
05 05 23 00-0642 EA 1" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	26.25	
For>100 To 250, Deduct	-2.38	
For>250 To 500, Deduct	-2.97	
For>500, Deduct	-3.57	
05 05 23 00-0643 EA 1" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	28.39	
For>100 To 250, Deduct	-2.38	
For>250 To 500, Deduct	-2.97	
For>500, Deduct	-3.57	
05 05 23 00-0644 EA 1" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	29.63	
For>100 To 250, Deduct	-2.42	
For>250 To 500, Deduct	-3.03	
For>500, Deduct	-3.64	
05 05 23 00-0645 EA 1" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	30.53	
For>100 To 250, Deduct	-2.42	
For>250 To 500, Deduct	-3.03	
For>500, Deduct	-3.64	
05 05 23 00-0646 EA 1" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	35.00	
For>100 To 250, Deduct	-2.42	
For>250 To 500, Deduct	-3.03	
For>500, Deduct	-3.64	
05 05 23 00-0647 EA 1" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	35.91	
For>100 To 250, Deduct	-2.47	
For>250 To 500, Deduct	-3.09	
For>500, Deduct	-3.70	
05 05 23 00-0648 EA 1" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	40.96	
For>100 To 250, Deduct	-2.47	
For>250 To 500, Deduct	-3.09	
For>500, Deduct	-3.70	
05 05 23 00-0649 EA 1" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	41.83	
For>100 To 250, Deduct	-2.47	
For>250 To 500, Deduct	-3.09	
For>500, Deduct	-3.70	
05 05 23 00-0650 EA 1" Diameter x 8-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	44.75	
For>100 To 250, Deduct	-2.51	
For>250 To 500, Deduct	-3.14	
For>500, Deduct	-3.77	
05 05 23 00-0651 EA 1" Diameter x 9" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	46.21	
For>100 To 250, Deduct	-2.51	
For>250 To 500, Deduct	-3.14	
For>500, Deduct	-3.77	
05 05 23 00-0652 EA 1" Diameter x 9-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	50.06	
For>100 To 250, Deduct	-2.51	
For>250 To 500, Deduct	-3.14	
For>500, Deduct	-3.77	
05 05 23 00-0653 EA 1" Diameter x 10" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	52.41	
For>100 To 250, Deduct	-2.51	
For>250 To 500, Deduct	-3.14	
For>500, Deduct	-3.77	
05 05 23 00-0654 Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0654)</small>		
05 05 23 00-0655 1/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0654)</small>		
05 05 23 00-0656 EA 1/4" Diameter x 1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	8.38	
For>100 To 250, Deduct	-1.60	
For>250 To 500, Deduct	-2.00	
For>500, Deduct	-2.40	
05 05 23 00-0657 EA 1/4" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.40	
For>100 To 250, Deduct	-1.60	
For>250 To 500, Deduct	-2.00	
For>500, Deduct	-2.40	
05 05 23 00-0658 EA 1/4" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.42	
For>100 To 250, Deduct	-1.60	
For>250 To 500, Deduct	-2.00	
For>500, Deduct	-2.40	
05 05 23 00-0659 EA 1/4" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.70	
For>100 To 250, Deduct	-1.60	
For>250 To 500, Deduct	-2.00	
For>500, Deduct	-2.40	
05 05 23 00-0660 EA 1/4" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.06	
For>100 To 250, Deduct	-1.65	
For>250 To 500, Deduct	-2.06	
For>500, Deduct	-2.47	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0661 EA 1/4" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.22	
<i>For >100 To 250, Deduct</i>	-1.65	
<i>For >250 To 500, Deduct</i>	-2.06	
<i>For >500, Deduct</i>	-2.47	
05 05 23 00-0662 EA 1/4" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.29	
<i>For >100 To 250, Deduct</i>	-1.65	
<i>For >250 To 500, Deduct</i>	-2.06	
<i>For >500, Deduct</i>	-2.47	
05 05 23 00-0663 EA 1/4" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.54	
<i>For >100 To 250, Deduct</i>	-1.69	
<i>For >250 To 500, Deduct</i>	-2.12	
<i>For >500, Deduct</i>	-2.54	
05 05 23 00-0664 EA 1/4" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.73	
<i>For >100 To 250, Deduct</i>	-1.69	
<i>For >250 To 500, Deduct</i>	-2.12	
<i>For >500, Deduct</i>	-2.54	
05 05 23 00-0665 EA 1/4" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.78	
<i>For >100 To 250, Deduct</i>	-1.69	
<i>For >250 To 500, Deduct</i>	-2.12	
<i>For >500, Deduct</i>	-2.54	
05 05 23 00-0666 EA 1/4" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.14	
<i>For >100 To 250, Deduct</i>	-1.74	
<i>For >250 To 500, Deduct</i>	-2.17	
<i>For >500, Deduct</i>	-2.61	
05 05 23 00-0667 EA 1/4" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.31	
<i>For >100 To 250, Deduct</i>	-1.74	
<i>For >250 To 500, Deduct</i>	-2.17	
<i>For >500, Deduct</i>	-2.61	
05 05 23 00-0668 EA 1/4" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.37	
<i>For >100 To 250, Deduct</i>	-1.74	
<i>For >250 To 500, Deduct</i>	-2.17	
<i>For >500, Deduct</i>	-2.61	
05 05 23 00-0669 EA 1/4" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.74	
<i>For >100 To 250, Deduct</i>	-1.78	
<i>For >250 To 500, Deduct</i>	-2.23	
<i>For >500, Deduct</i>	-2.67	
05 05 23 00-0670 EA 1/4" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.20	
<i>For >100 To 250, Deduct</i>	-1.78	
<i>For >250 To 500, Deduct</i>	-2.23	
<i>For >500, Deduct</i>	-2.67	
05 05 23 00-0671 EA 1/4" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.78	
<i>For >100 To 250, Deduct</i>	-1.78	
<i>For >250 To 500, Deduct</i>	-2.23	
<i>For >500, Deduct</i>	-2.67	
05 05 23 00-0672 5/16" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0654)</small>		
05 05 23 00-0673 EA 5/16" Diameter x 1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.26	
<i>For >100 To 250, Deduct</i>	-1.60	
<i>For >250 To 500, Deduct</i>	-2.00	
<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0674 EA 5/16" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.78	
<i>For >100 To 250, Deduct</i>	-1.60	
<i>For >250 To 500, Deduct</i>	-2.00	
<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0675 EA 5/16" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.83	
<i>For >100 To 250, Deduct</i>	-1.60	
<i>For >250 To 500, Deduct</i>	-2.00	
<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0676 EA 5/16" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.85	
<i>For >100 To 250, Deduct</i>	-1.60	
<i>For >250 To 500, Deduct</i>	-2.00	
<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0677 EA 5/16" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.32	
<i>For >100 To 250, Deduct</i>	-1.65	
<i>For >250 To 500, Deduct</i>	-2.06	
<i>For >500, Deduct</i>	-2.47	
05 05 23 00-0678 EA 5/16" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.82	
<i>For >100 To 250, Deduct</i>	-1.65	
<i>For >250 To 500, Deduct</i>	-2.06	
<i>For >500, Deduct</i>	-2.47	
05 05 23 00-0679 EA 5/16" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.91	
<i>For >100 To 250, Deduct</i>	-1.65	
<i>For >250 To 500, Deduct</i>	-2.06	
<i>For >500, Deduct</i>	-2.47	
05 05 23 00-0680 EA 5/16" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.28	
<i>For >100 To 250, Deduct</i>	-1.69	
<i>For >250 To 500, Deduct</i>	-2.12	
<i>For >500, Deduct</i>	-2.54	
05 05 23 00-0681 EA 5/16" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.32	
<i>For >100 To 250, Deduct</i>	-1.69	
<i>For >250 To 500, Deduct</i>	-2.12	
<i>For >500, Deduct</i>	-2.54	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0682	EA		5/16" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.72	
			<i>For >100 To 250, Deduct</i>	-1.69	
			<i>For >250 To 500, Deduct</i>	-2.12	
			<i>For >500, Deduct</i>	-2.54	
05 05 23 00-0683	EA		5/16" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.06	
			<i>For >100 To 250, Deduct</i>	-1.74	
			<i>For >250 To 500, Deduct</i>	-2.17	
			<i>For >500, Deduct</i>	-2.61	
05 05 23 00-0684	EA		5/16" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.21	
			<i>For >100 To 250, Deduct</i>	-1.74	
			<i>For >250 To 500, Deduct</i>	-2.17	
			<i>For >500, Deduct</i>	-2.61	
05 05 23 00-0685	EA		5/16" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.59	
			<i>For >100 To 250, Deduct</i>	-1.74	
			<i>For >250 To 500, Deduct</i>	-2.17	
			<i>For >500, Deduct</i>	-2.61	
05 05 23 00-0686	EA		5/16" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.57	
			<i>For >100 To 250, Deduct</i>	-1.78	
			<i>For >250 To 500, Deduct</i>	-2.23	
			<i>For >500, Deduct</i>	-2.67	
05 05 23 00-0687	EA		5/16" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.18	
			<i>For >100 To 250, Deduct</i>	-1.78	
			<i>For >250 To 500, Deduct</i>	-2.23	
			<i>For >500, Deduct</i>	-2.67	
05 05 23 00-0688	EA		5/16" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.75	
			<i>For >100 To 250, Deduct</i>	-1.78	
			<i>For >250 To 500, Deduct</i>	-2.23	
			<i>For >500, Deduct</i>	-2.67	
05 05 23 00-0689			3/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0654)</small>		
05 05 23 00-0690	EA		3/8" Diameter x 1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.42	
			<i>For >100 To 250, Deduct</i>	-1.60	
			<i>For >250 To 500, Deduct</i>	-2.00	
			<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0691	EA		3/8" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.54	
			<i>For >100 To 250, Deduct</i>	-1.60	
			<i>For >250 To 500, Deduct</i>	-2.00	
			<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0692	EA		3/8" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.67	
			<i>For >100 To 250, Deduct</i>	-1.60	
			<i>For >250 To 500, Deduct</i>	-2.00	
			<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0693	EA		3/8" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.99	
			<i>For >100 To 250, Deduct</i>	-1.60	
			<i>For >250 To 500, Deduct</i>	-2.00	
			<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0694	EA		3/8" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.36	
			<i>For >100 To 250, Deduct</i>	-1.65	
			<i>For >250 To 500, Deduct</i>	-2.06	
			<i>For >500, Deduct</i>	-2.47	
05 05 23 00-0695	EA		3/8" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.63	
			<i>For >100 To 250, Deduct</i>	-1.65	
			<i>For >250 To 500, Deduct</i>	-2.06	
			<i>For >500, Deduct</i>	-2.47	
05 05 23 00-0696	EA		3/8" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.82	
			<i>For >100 To 250, Deduct</i>	-1.65	
			<i>For >250 To 500, Deduct</i>	-2.06	
			<i>For >500, Deduct</i>	-2.47	
05 05 23 00-0697	EA		3/8" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.31	
			<i>For >100 To 250, Deduct</i>	-1.69	
			<i>For >250 To 500, Deduct</i>	-2.12	
			<i>For >500, Deduct</i>	-2.54	
05 05 23 00-0698	EA		3/8" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.44	
			<i>For >100 To 250, Deduct</i>	-1.69	
			<i>For >250 To 500, Deduct</i>	-2.12	
			<i>For >500, Deduct</i>	-2.54	
05 05 23 00-0699	EA		3/8" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.76	
			<i>For >100 To 250, Deduct</i>	-1.69	
			<i>For >250 To 500, Deduct</i>	-2.12	
			<i>For >500, Deduct</i>	-2.54	
05 05 23 00-0700	EA		3/8" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.13	
			<i>For >100 To 250, Deduct</i>	-1.74	
			<i>For >250 To 500, Deduct</i>	-2.17	
			<i>For >500, Deduct</i>	-2.61	
05 05 23 00-0701	EA		3/8" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.57	
			<i>For >100 To 250, Deduct</i>	-1.74	
			<i>For >250 To 500, Deduct</i>	-2.17	
			<i>For >500, Deduct</i>	-2.61	
05 05 23 00-0702	EA		3/8" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.65	
			<i>For >100 To 250, Deduct</i>	-1.74	
			<i>For >250 To 500, Deduct</i>	-2.17	
			<i>For >500, Deduct</i>	-2.61	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0703	EA		3/8" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.90	
			<i>For >100 To 250, Deduct</i>	-1.78	
			<i>For >250 To 500, Deduct</i>	-2.23	
			<i>For >500, Deduct</i>	-2.67	
05 05 23 00-0704	EA		3/8" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.95	
			<i>For >100 To 250, Deduct</i>	-1.78	
			<i>For >250 To 500, Deduct</i>	-2.23	
			<i>For >500, Deduct</i>	-2.67	
05 05 23 00-0705	EA		3/8" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.47	
			<i>For >100 To 250, Deduct</i>	-1.78	
			<i>For >250 To 500, Deduct</i>	-2.23	
			<i>For >500, Deduct</i>	-2.67	
05 05 23 00-0706 7/16" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts					
<small>(05 05 23 00-0654)</small>					
05 05 23 00-0707	EA		7/16" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.35	
			<i>For >100 To 250, Deduct</i>	-1.83	
			<i>For >250 To 500, Deduct</i>	-2.29	
			<i>For >500, Deduct</i>	-2.74	
05 05 23 00-0708	EA		7/16" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.93	
			<i>For >100 To 250, Deduct</i>	-1.83	
			<i>For >250 To 500, Deduct</i>	-2.29	
			<i>For >500, Deduct</i>	-2.74	
05 05 23 00-0709	EA		7/16" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.37	
			<i>For >100 To 250, Deduct</i>	-1.83	
			<i>For >250 To 500, Deduct</i>	-2.29	
			<i>For >500, Deduct</i>	-2.74	
05 05 23 00-0710	EA		7/16" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.35	
			<i>For >100 To 250, Deduct</i>	-1.87	
			<i>For >250 To 500, Deduct</i>	-2.34	
			<i>For >500, Deduct</i>	-2.81	
05 05 23 00-0711	EA		7/16" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.38	
			<i>For >100 To 250, Deduct</i>	-1.87	
			<i>For >250 To 500, Deduct</i>	-2.34	
			<i>For >500, Deduct</i>	-2.81	
05 05 23 00-0712	EA		7/16" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.42	
			<i>For >100 To 250, Deduct</i>	-1.87	
			<i>For >250 To 500, Deduct</i>	-2.34	
			<i>For >500, Deduct</i>	-2.81	
05 05 23 00-0713	EA		7/16" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.02	
			<i>For >100 To 250, Deduct</i>	-1.92	
			<i>For >250 To 500, Deduct</i>	-2.40	
			<i>For >500, Deduct</i>	-2.88	
05 05 23 00-0714	EA		7/16" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.43	
			<i>For >100 To 250, Deduct</i>	-1.92	
			<i>For >250 To 500, Deduct</i>	-2.40	
			<i>For >500, Deduct</i>	-2.88	
05 05 23 00-0715	EA		7/16" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.80	
			<i>For >100 To 250, Deduct</i>	-1.92	
			<i>For >250 To 500, Deduct</i>	-2.40	
			<i>For >500, Deduct</i>	-2.88	
05 05 23 00-0716	EA		7/16" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.44	
			<i>For >100 To 250, Deduct</i>	-1.97	
			<i>For >250 To 500, Deduct</i>	-2.46	
			<i>For >500, Deduct</i>	-2.95	
05 05 23 00-0717	EA		7/16" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.87	
			<i>For >100 To 250, Deduct</i>	-1.97	
			<i>For >250 To 500, Deduct</i>	-2.46	
			<i>For >500, Deduct</i>	-2.95	
05 05 23 00-0718 1/2" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts					
<small>(05 05 23 00-0654)</small>					
05 05 23 00-0719	EA		1/2" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.10	
			<i>For >100 To 250, Deduct</i>	-1.83	
			<i>For >250 To 500, Deduct</i>	-2.29	
			<i>For >500, Deduct</i>	-2.74	
05 05 23 00-0720	EA		1/2" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.29	
			<i>For >100 To 250, Deduct</i>	-1.83	
			<i>For >250 To 500, Deduct</i>	-2.29	
			<i>For >500, Deduct</i>	-2.74	
05 05 23 00-0721	EA		1/2" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.66	
			<i>For >100 To 250, Deduct</i>	-1.83	
			<i>For >250 To 500, Deduct</i>	-2.29	
			<i>For >500, Deduct</i>	-2.74	
05 05 23 00-0722	EA		1/2" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.32	
			<i>For >100 To 250, Deduct</i>	-1.87	
			<i>For >250 To 500, Deduct</i>	-2.34	
			<i>For >500, Deduct</i>	-2.81	
05 05 23 00-0723	EA		1/2" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.61	
			<i>For >100 To 250, Deduct</i>	-1.87	
			<i>For >250 To 500, Deduct</i>	-2.34	
			<i>For >500, Deduct</i>	-2.81	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0724 EA 1/2" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.15	
For >100 To 250, Deduct	-1.87	
For >250 To 500, Deduct	-2.34	
For >500, Deduct	-2.81	
05 05 23 00-0725 EA 1/2" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.47	
For >100 To 250, Deduct	-1.92	
For >250 To 500, Deduct	-2.40	
For >500, Deduct	-2.88	
05 05 23 00-0726 EA 1/2" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.67	
For >100 To 250, Deduct	-1.92	
For >250 To 500, Deduct	-2.40	
For >500, Deduct	-2.88	
05 05 23 00-0727 EA 1/2" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.10	
For >100 To 250, Deduct	-1.92	
For >250 To 500, Deduct	-2.40	
For >500, Deduct	-2.88	
05 05 23 00-0728 EA 1/2" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.52	
For >100 To 250, Deduct	-1.97	
For >250 To 500, Deduct	-2.46	
For >500, Deduct	-2.95	
05 05 23 00-0729 EA 1/2" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.00	
For >100 To 250, Deduct	-1.97	
For >250 To 500, Deduct	-2.46	
For >500, Deduct	-2.95	
05 05 23 00-0730 EA 1/2" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.04	
For >100 To 250, Deduct	-1.97	
For >250 To 500, Deduct	-2.46	
For >500, Deduct	-2.95	
05 05 23 00-0731 EA 1/2" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.36	
For >100 To 250, Deduct	-2.01	
For >250 To 500, Deduct	-2.52	
For >500, Deduct	-3.02	
05 05 23 00-0732 EA 1/2" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.49	
For >100 To 250, Deduct	-2.01	
For >250 To 500, Deduct	-2.52	
For >500, Deduct	-3.02	
05 05 23 00-0733 EA 1/2" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.85	
For >100 To 250, Deduct	-2.01	
For >250 To 500, Deduct	-2.52	
For >500, Deduct	-3.02	
05 05 23 00-0734 EA 1/2" Diameter x 8-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.79	
For >100 To 250, Deduct	-2.06	
For >250 To 500, Deduct	-2.57	
For >500, Deduct	-3.09	
05 05 23 00-0735 EA 1/2" Diameter x 9" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.08	
For >100 To 250, Deduct	-2.06	
For >250 To 500, Deduct	-2.57	
For >500, Deduct	-3.09	
05 05 23 00-0736 EA 1/2" Diameter x 9-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.14	
For >100 To 250, Deduct	-2.06	
For >250 To 500, Deduct	-2.57	
For >500, Deduct	-3.09	
05 05 23 00-0737 EA 1/2" Diameter x 10" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.31	
For >100 To 250, Deduct	-2.06	
For >250 To 500, Deduct	-2.57	
For >500, Deduct	-3.09	
05 05 23 00-0738 5/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0654)</small>		
05 05 23 00-0739 EA 5/8" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.92	
For >100 To 250, Deduct	-2.06	
For >250 To 500, Deduct	-2.57	
For >500, Deduct	-3.09	
05 05 23 00-0740 EA 5/8" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.21	
For >100 To 250, Deduct	-2.06	
For >250 To 500, Deduct	-2.57	
For >500, Deduct	-3.09	
05 05 23 00-0741 EA 5/8" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.41	
For >100 To 250, Deduct	-2.06	
For >250 To 500, Deduct	-2.57	
For >500, Deduct	-3.09	
05 05 23 00-0742 EA 5/8" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.95	
For >100 To 250, Deduct	-2.10	
For >250 To 500, Deduct	-2.63	
For >500, Deduct	-3.15	
05 05 23 00-0743 EA 5/8" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.38	
For >100 To 250, Deduct	-2.10	
For >250 To 500, Deduct	-2.63	
For >500, Deduct	-3.15	
05 05 23 00-0744 EA 5/8" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.33	
For >100 To 250, Deduct	-2.10	
For >250 To 500, Deduct	-2.63	
For >500, Deduct	-3.15	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0745 EA 5/8" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.71	
<i>For >100 To 250, Deduct</i>	-2.15	
<i>For >250 To 500, Deduct</i>	-2.69	
<i>For >500, Deduct</i>	-3.22	
05 05 23 00-0746 EA 5/8" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.88	
<i>For >100 To 250, Deduct</i>	-2.15	
<i>For >250 To 500, Deduct</i>	-2.69	
<i>For >500, Deduct</i>	-3.22	
05 05 23 00-0747 EA 5/8" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.17	
<i>For >100 To 250, Deduct</i>	-2.15	
<i>For >250 To 500, Deduct</i>	-2.69	
<i>For >500, Deduct</i>	-3.22	
05 05 23 00-0748 EA 5/8" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.78	
<i>For >100 To 250, Deduct</i>	-2.19	
<i>For >250 To 500, Deduct</i>	-2.74	
<i>For >500, Deduct</i>	-3.29	
05 05 23 00-0749 EA 5/8" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.11	
<i>For >100 To 250, Deduct</i>	-2.19	
<i>For >250 To 500, Deduct</i>	-2.74	
<i>For >500, Deduct</i>	-3.29	
05 05 23 00-0750 EA 5/8" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.09	
<i>For >100 To 250, Deduct</i>	-2.19	
<i>For >250 To 500, Deduct</i>	-2.74	
<i>For >500, Deduct</i>	-3.29	
05 05 23 00-0751 EA 5/8" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.38	
<i>For >100 To 250, Deduct</i>	-2.24	
<i>For >250 To 500, Deduct</i>	-2.80	
<i>For >500, Deduct</i>	-3.36	
05 05 23 00-0752 EA 5/8" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	19.09	
<i>For >100 To 250, Deduct</i>	-2.24	
<i>For >250 To 500, Deduct</i>	-2.80	
<i>For >500, Deduct</i>	-3.36	
05 05 23 00-0753 EA 5/8" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	19.60	
<i>For >100 To 250, Deduct</i>	-2.24	
<i>For >250 To 500, Deduct</i>	-2.80	
<i>For >500, Deduct</i>	-3.36	
05 05 23 00-0754 EA 5/8" Diameter x 8-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	20.54	
<i>For >100 To 250, Deduct</i>	-2.29	
<i>For >250 To 500, Deduct</i>	-2.86	
<i>For >500, Deduct</i>	-3.43	
05 05 23 00-0755 EA 5/8" Diameter x 9" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	21.35	
<i>For >100 To 250, Deduct</i>	-2.29	
<i>For >250 To 500, Deduct</i>	-2.86	
<i>For >500, Deduct</i>	-3.43	
05 05 23 00-0756 EA 5/8" Diameter x 9-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	23.20	
<i>For >100 To 250, Deduct</i>	-2.29	
<i>For >250 To 500, Deduct</i>	-2.86	
<i>For >500, Deduct</i>	-3.43	
05 05 23 00-0757 EA 5/8" Diameter x 10" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	23.34	
<i>For >100 To 250, Deduct</i>	-2.29	
<i>For >250 To 500, Deduct</i>	-2.86	
<i>For >500, Deduct</i>	-3.43	
05 05 23 00-0758 3/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0654)</small>		
05 05 23 00-0759 EA 3/4" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.31	
<i>For >100 To 250, Deduct</i>	-2.06	
<i>For >250 To 500, Deduct</i>	-2.57	
<i>For >500, Deduct</i>	-3.09	
05 05 23 00-0760 EA 3/4" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.37	
<i>For >100 To 250, Deduct</i>	-2.06	
<i>For >250 To 500, Deduct</i>	-2.57	
<i>For >500, Deduct</i>	-3.09	
05 05 23 00-0761 EA 3/4" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.72	
<i>For >100 To 250, Deduct</i>	-2.06	
<i>For >250 To 500, Deduct</i>	-2.57	
<i>For >500, Deduct</i>	-3.09	
05 05 23 00-0762 EA 3/4" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.74	
<i>For >100 To 250, Deduct</i>	-2.10	
<i>For >250 To 500, Deduct</i>	-2.63	
<i>For >500, Deduct</i>	-3.15	
05 05 23 00-0763 EA 3/4" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.07	
<i>For >100 To 250, Deduct</i>	-2.10	
<i>For >250 To 500, Deduct</i>	-2.63	
<i>For >500, Deduct</i>	-3.15	
05 05 23 00-0764 EA 3/4" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.92	
<i>For >100 To 250, Deduct</i>	-2.10	
<i>For >250 To 500, Deduct</i>	-2.63	
<i>For >500, Deduct</i>	-3.15	
05 05 23 00-0765 EA 3/4" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.61	
<i>For >100 To 250, Deduct</i>	-2.15	
<i>For >250 To 500, Deduct</i>	-2.69	
<i>For >500, Deduct</i>	-3.22	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0766 EA 3/4" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.69	
For>100 To 250, Deduct	-2.15	
For>250 To 500, Deduct	-2.69	
For>500, Deduct	-3.22	
05 05 23 00-0767 EA 3/4" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.87	
For>100 To 250, Deduct	-2.15	
For>250 To 500, Deduct	-2.69	
For>500, Deduct	-3.22	
05 05 23 00-0768 EA 3/4" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	18.22	
For>100 To 250, Deduct	-2.19	
For>250 To 500, Deduct	-2.74	
For>500, Deduct	-3.29	
05 05 23 00-0769 EA 3/4" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	19.35	
For>100 To 250, Deduct	-2.19	
For>250 To 500, Deduct	-2.74	
For>500, Deduct	-3.29	
05 05 23 00-0770 EA 3/4" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	19.82	
For>100 To 250, Deduct	-2.19	
For>250 To 500, Deduct	-2.74	
For>500, Deduct	-3.29	
05 05 23 00-0771 EA 3/4" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	20.97	
For>100 To 250, Deduct	-2.24	
For>250 To 500, Deduct	-2.80	
For>500, Deduct	-3.36	
05 05 23 00-0772 EA 3/4" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	21.12	
For>100 To 250, Deduct	-2.24	
For>250 To 500, Deduct	-2.80	
For>500, Deduct	-3.36	
05 05 23 00-0773 EA 3/4" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	21.58	
For>100 To 250, Deduct	-2.24	
For>250 To 500, Deduct	-2.80	
For>500, Deduct	-3.36	
05 05 23 00-0774 EA 3/4" Diameter x 8-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	22.50	
For>100 To 250, Deduct	-2.29	
For>250 To 500, Deduct	-2.86	
For>500, Deduct	-3.43	
05 05 23 00-0775 EA 3/4" Diameter x 9" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	22.98	
For>100 To 250, Deduct	-2.29	
For>250 To 500, Deduct	-2.86	
For>500, Deduct	-3.43	
05 05 23 00-0776 EA 3/4" Diameter x 9-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	23.26	
For>100 To 250, Deduct	-2.29	
For>250 To 500, Deduct	-2.86	
For>500, Deduct	-3.43	
05 05 23 00-0777 EA 3/4" Diameter x 10" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	23.40	
For>100 To 250, Deduct	-2.29	
For>250 To 500, Deduct	-2.86	
For>500, Deduct	-3.43	
05 05 23 00-0778 7/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0654)</small>		
05 05 23 00-0779 EA 7/8" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.22	
For>100 To 250, Deduct	-2.29	
For>250 To 500, Deduct	-2.86	
For>500, Deduct	-3.43	
05 05 23 00-0780 EA 7/8" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.76	
For>100 To 250, Deduct	-2.29	
For>250 To 500, Deduct	-2.86	
For>500, Deduct	-3.43	
05 05 23 00-0781 EA 7/8" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	18.30	
For>100 To 250, Deduct	-2.33	
For>250 To 500, Deduct	-2.92	
For>500, Deduct	-3.50	
05 05 23 00-0782 EA 7/8" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	21.15	
For>100 To 250, Deduct	-2.33	
For>250 To 500, Deduct	-2.92	
For>500, Deduct	-3.50	
05 05 23 00-0783 EA 7/8" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	21.58	
For>100 To 250, Deduct	-2.33	
For>250 To 500, Deduct	-2.92	
For>500, Deduct	-3.50	
05 05 23 00-0784 EA 7/8" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	22.36	
For>100 To 250, Deduct	-2.38	
For>250 To 500, Deduct	-2.97	
For>500, Deduct	-3.57	
05 05 23 00-0785 EA 7/8" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	22.96	
For>100 To 250, Deduct	-2.38	
For>250 To 500, Deduct	-2.97	
For>500, Deduct	-3.57	
05 05 23 00-0786 EA 7/8" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	23.72	
For>100 To 250, Deduct	-2.38	
For>250 To 500, Deduct	-2.97	
For>500, Deduct	-3.57	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0787 EA 7/8" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	24.48	
<i>For >100 To 250, Deduct</i>	-2.42	
<i>For >250 To 500, Deduct</i>	-3.03	
<i>For >500, Deduct</i>	-3.64	
05 05 23 00-0788 EA 7/8" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	25.08	
<i>For >100 To 250, Deduct</i>	-2.42	
<i>For >250 To 500, Deduct</i>	-3.03	
<i>For >500, Deduct</i>	-3.64	
05 05 23 00-0789 EA 7/8" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	29.80	
<i>For >100 To 250, Deduct</i>	-2.42	
<i>For >250 To 500, Deduct</i>	-3.03	
<i>For >500, Deduct</i>	-3.64	
05 05 23 00-0790 EA 7/8" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	30.67	
<i>For >100 To 250, Deduct</i>	-2.47	
<i>For >250 To 500, Deduct</i>	-3.09	
<i>For >500, Deduct</i>	-3.70	
05 05 23 00-0791 EA 7/8" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	31.77	
<i>For >100 To 250, Deduct</i>	-2.47	
<i>For >250 To 500, Deduct</i>	-3.09	
<i>For >500, Deduct</i>	-3.70	
05 05 23 00-0792 EA 7/8" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	32.03	
<i>For >100 To 250, Deduct</i>	-2.47	
<i>For >250 To 500, Deduct</i>	-3.09	
<i>For >500, Deduct</i>	-3.70	
05 05 23 00-0793 EA 7/8" Diameter x 8-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	32.57	
<i>For >100 To 250, Deduct</i>	-2.51	
<i>For >250 To 500, Deduct</i>	-3.14	
<i>For >500, Deduct</i>	-3.77	
05 05 23 00-0794 EA 7/8" Diameter x 9" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	33.18	
<i>For >100 To 250, Deduct</i>	-2.51	
<i>For >250 To 500, Deduct</i>	-3.14	
<i>For >500, Deduct</i>	-3.77	
05 05 23 00-0795 EA 7/8" Diameter x 9-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	33.94	
<i>For >100 To 250, Deduct</i>	-2.51	
<i>For >250 To 500, Deduct</i>	-3.14	
<i>For >500, Deduct</i>	-3.77	
05 05 23 00-0796 EA 7/8" Diameter x 10" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	34.66	
<i>For >100 To 250, Deduct</i>	-2.51	
<i>For >250 To 500, Deduct</i>	-3.14	
<i>For >500, Deduct</i>	-3.77	

05 05 23 00-0797 1" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05 23 00-0654)

05 05 23 00-0798 EA 1" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	21.05	
<i>For >100 To 250, Deduct</i>	-2.29	
<i>For >250 To 500, Deduct</i>	-2.86	
<i>For >500, Deduct</i>	-3.43	
05 05 23 00-0799 EA 1" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	21.44	
<i>For >100 To 250, Deduct</i>	-2.33	
<i>For >250 To 500, Deduct</i>	-2.92	
<i>For >500, Deduct</i>	-3.50	
05 05 23 00-0800 EA 1" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	22.47	
<i>For >100 To 250, Deduct</i>	-2.33	
<i>For >250 To 500, Deduct</i>	-2.92	
<i>For >500, Deduct</i>	-3.50	
05 05 23 00-0801 EA 1" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	23.28	
<i>For >100 To 250, Deduct</i>	-2.33	
<i>For >250 To 500, Deduct</i>	-2.92	
<i>For >500, Deduct</i>	-3.50	
05 05 23 00-0802 EA 1" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	25.35	
<i>For >100 To 250, Deduct</i>	-2.38	
<i>For >250 To 500, Deduct</i>	-2.97	
<i>For >500, Deduct</i>	-3.57	
05 05 23 00-0803 EA 1" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	25.77	
<i>For >100 To 250, Deduct</i>	-2.38	
<i>For >250 To 500, Deduct</i>	-2.97	
<i>For >500, Deduct</i>	-3.57	
05 05 23 00-0804 EA 1" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	26.96	
<i>For >100 To 250, Deduct</i>	-2.38	
<i>For >250 To 500, Deduct</i>	-2.97	
<i>For >500, Deduct</i>	-3.57	
05 05 23 00-0805 EA 1" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	27.31	
<i>For >100 To 250, Deduct</i>	-2.42	
<i>For >250 To 500, Deduct</i>	-3.03	
<i>For >500, Deduct</i>	-3.64	
05 05 23 00-0806 EA 1" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	27.75	
<i>For >100 To 250, Deduct</i>	-2.42	
<i>For >250 To 500, Deduct</i>	-3.03	
<i>For >500, Deduct</i>	-3.64	
05 05 23 00-0807 EA 1" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	31.80	
<i>For >100 To 250, Deduct</i>	-2.42	
<i>For >250 To 500, Deduct</i>	-3.03	
<i>For >500, Deduct</i>	-3.64	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0808 EA 1" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	32.78	
For>100 To 250, Deduct	-2.47	
For>250 To 500, Deduct	-3.09	
For>500, Deduct	-3.70	
05 05 23 00-0809 EA 1" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	34.47	
For>100 To 250, Deduct	-2.47	
For>250 To 500, Deduct	-3.09	
For>500, Deduct	-3.70	
05 05 23 00-0810 EA 1" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	36.15	
For>100 To 250, Deduct	-2.47	
For>250 To 500, Deduct	-3.09	
For>500, Deduct	-3.70	
05 05 23 00-0811 EA 1" Diameter x 8-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	36.89	
For>100 To 250, Deduct	-2.51	
For>250 To 500, Deduct	-3.14	
For>500, Deduct	-3.77	
05 05 23 00-0812 EA 1" Diameter x 9" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	38.24	
For>100 To 250, Deduct	-2.51	
For>250 To 500, Deduct	-3.14	
For>500, Deduct	-3.77	
05 05 23 00-0813 EA 1" Diameter x 9-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	39.28	
For>100 To 250, Deduct	-2.51	
For>250 To 500, Deduct	-3.14	
For>500, Deduct	-3.77	
05 05 23 00-0814 EA 1" Diameter x 10" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	40.81	
For>100 To 250, Deduct	-2.51	
For>250 To 500, Deduct	-3.14	
For>500, Deduct	-3.77	
05 05 23 00-0815 304/18-8 Stainless Steel, Hex Head Bolts (05 05 23 00-0097)		
05 05 23 00-0816 1/4" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts (05 05 23 00-0815)		
05 05 23 00-0817 EA 1/4" Diameter x 1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	8.38	
For>100 To 250, Deduct	-1.60	
For>250 To 500, Deduct	-2.00	
For>500, Deduct	-2.40	
05 05 23 00-0818 EA 1/4" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	8.53	
For>100 To 250, Deduct	-1.60	
For>250 To 500, Deduct	-2.00	
For>500, Deduct	-2.40	
05 05 23 00-0819 EA 1/4" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	8.71	
For>100 To 250, Deduct	-1.60	
For>250 To 500, Deduct	-2.00	
For>500, Deduct	-2.40	
05 05 23 00-0820 EA 1/4" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	8.91	
For>100 To 250, Deduct	-1.60	
For>250 To 500, Deduct	-2.00	
For>500, Deduct	-2.40	
05 05 23 00-0821 EA 1/4" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	9.34	
For>100 To 250, Deduct	-1.65	
For>250 To 500, Deduct	-2.06	
For>500, Deduct	-2.47	
05 05 23 00-0822 EA 1/4" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	9.64	
For>100 To 250, Deduct	-1.65	
For>250 To 500, Deduct	-2.06	
For>500, Deduct	-2.47	
05 05 23 00-0823 EA 1/4" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	9.99	
For>100 To 250, Deduct	-1.65	
For>250 To 500, Deduct	-2.06	
For>500, Deduct	-2.47	
05 05 23 00-0824 EA 1/4" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	10.48	
For>100 To 250, Deduct	-1.69	
For>250 To 500, Deduct	-2.12	
For>500, Deduct	-2.54	
05 05 23 00-0825 EA 1/4" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	10.92	
For>100 To 250, Deduct	-1.69	
For>250 To 500, Deduct	-2.12	
For>500, Deduct	-2.54	
05 05 23 00-0826 EA 1/4" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	11.31	
For>100 To 250, Deduct	-1.69	
For>250 To 500, Deduct	-2.12	
For>500, Deduct	-2.54	
05 05 23 00-0827 EA 1/4" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	11.86	
For>100 To 250, Deduct	-1.74	
For>250 To 500, Deduct	-2.17	
For>500, Deduct	-2.61	
05 05 23 00-0828 EA 1/4" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	12.52	
For>100 To 250, Deduct	-1.74	
For>250 To 500, Deduct	-2.17	
For>500, Deduct	-2.61	
05 05 23 00-0829 EA 1/4" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	20.37	
For>100 To 250, Deduct	-1.74	
For>250 To 500, Deduct	-2.17	
For>500, Deduct	-2.61	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0830 EA 1/4" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt	24.42	
<i>For >100 To 250, Deduct</i>	-1.78	
<i>For >250 To 500, Deduct</i>	-2.23	
<i>For >500, Deduct</i>	-2.67	
05 05 23 00-0831 EA 1/4" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	24.78	
<i>For >100 To 250, Deduct</i>	-1.78	
<i>For >250 To 500, Deduct</i>	-2.23	
<i>For >500, Deduct</i>	-2.67	
05 05 23 00-0832 EA 1/4" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt	25.67	
<i>For >100 To 250, Deduct</i>	-1.78	
<i>For >250 To 500, Deduct</i>	-2.23	
<i>For >500, Deduct</i>	-2.67	
05 05 23 00-0833 5/16" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts <small>(05 05 23 00-0815)</small>		
05 05 23 00-0834 EA 5/16" Diameter x 1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	8.65	
<i>For >100 To 250, Deduct</i>	-1.60	
<i>For >250 To 500, Deduct</i>	-2.00	
<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0835 EA 5/16" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt	8.78	
<i>For >100 To 250, Deduct</i>	-1.60	
<i>For >250 To 500, Deduct</i>	-2.00	
<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0836 EA 5/16" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	9.06	
<i>For >100 To 250, Deduct</i>	-1.60	
<i>For >250 To 500, Deduct</i>	-2.00	
<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0837 EA 5/16" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	9.29	
<i>For >100 To 250, Deduct</i>	-1.60	
<i>For >250 To 500, Deduct</i>	-2.00	
<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0838 EA 5/16" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	9.93	
<i>For >100 To 250, Deduct</i>	-1.65	
<i>For >250 To 500, Deduct</i>	-2.06	
<i>For >500, Deduct</i>	-2.47	
05 05 23 00-0839 EA 5/16" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	10.08	
<i>For >100 To 250, Deduct</i>	-1.65	
<i>For >250 To 500, Deduct</i>	-2.06	
<i>For >500, Deduct</i>	-2.47	
05 05 23 00-0840 EA 5/16" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	10.81	
<i>For >100 To 250, Deduct</i>	-1.65	
<i>For >250 To 500, Deduct</i>	-2.06	
<i>For >500, Deduct</i>	-2.47	
05 05 23 00-0841 EA 5/16" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt	11.55	
<i>For >100 To 250, Deduct</i>	-1.69	
<i>For >250 To 500, Deduct</i>	-2.12	
<i>For >500, Deduct</i>	-2.54	
05 05 23 00-0842 EA 5/16" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	12.37	
<i>For >100 To 250, Deduct</i>	-1.69	
<i>For >250 To 500, Deduct</i>	-2.12	
<i>For >500, Deduct</i>	-2.54	
05 05 23 00-0843 EA 5/16" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	12.78	
<i>For >100 To 250, Deduct</i>	-1.69	
<i>For >250 To 500, Deduct</i>	-2.12	
<i>For >500, Deduct</i>	-2.54	
05 05 23 00-0844 EA 5/16" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	14.26	
<i>For >100 To 250, Deduct</i>	-1.74	
<i>For >250 To 500, Deduct</i>	-2.17	
<i>For >500, Deduct</i>	-2.61	
05 05 23 00-0845 EA 5/16" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt	16.31	
<i>For >100 To 250, Deduct</i>	-1.74	
<i>For >250 To 500, Deduct</i>	-2.17	
<i>For >500, Deduct</i>	-2.61	
05 05 23 00-0846 EA 5/16" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	20.98	
<i>For >100 To 250, Deduct</i>	-1.74	
<i>For >250 To 500, Deduct</i>	-2.17	
<i>For >500, Deduct</i>	-2.61	
05 05 23 00-0847 EA 5/16" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt	28.76	
<i>For >100 To 250, Deduct</i>	-1.78	
<i>For >250 To 500, Deduct</i>	-2.23	
<i>For >500, Deduct</i>	-2.67	
05 05 23 00-0848 3/8" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts <small>(05 05 23 00-0815)</small>		
05 05 23 00-0849 EA 3/8" Diameter x 1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	9.00	
<i>For >100 To 250, Deduct</i>	-1.60	
<i>For >250 To 500, Deduct</i>	-2.00	
<i>For >500, Deduct</i>	-2.40	
05 05 23 00-0850 EA 3/8" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt	9.17	
<i>For >100 To 250, Deduct</i>	-1.60	
<i>For >250 To 500, Deduct</i>	-2.00	
<i>For >500, Deduct</i>	-2.40	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0851 EA 3/8" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	9.61	
For>100 To 250, Deduct	-1.60	
For>250 To 500, Deduct	-2.00	
For>500, Deduct	-2.40	
05 05 23 00-0852 EA 3/8" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	10.17	
For>100 To 250, Deduct	-1.60	
For>250 To 500, Deduct	-2.00	
For>500, Deduct	-2.40	
05 05 23 00-0853 EA 3/8" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	10.69	
For>100 To 250, Deduct	-1.65	
For>250 To 500, Deduct	-2.06	
For>500, Deduct	-2.47	
05 05 23 00-0854 EA 3/8" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	11.14	
For>100 To 250, Deduct	-1.65	
For>250 To 500, Deduct	-2.06	
For>500, Deduct	-2.47	
05 05 23 00-0855 EA 3/8" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	11.73	
For>100 To 250, Deduct	-1.65	
For>250 To 500, Deduct	-2.06	
For>500, Deduct	-2.47	
05 05 23 00-0856 EA 3/8" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt	12.50	
For>100 To 250, Deduct	-1.69	
For>250 To 500, Deduct	-2.12	
For>500, Deduct	-2.54	
05 05 23 00-0857 EA 3/8" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	13.19	
For>100 To 250, Deduct	-1.69	
For>250 To 500, Deduct	-2.12	
For>500, Deduct	-2.54	
05 05 23 00-0858 EA 3/8" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	14.73	
For>100 To 250, Deduct	-1.69	
For>250 To 500, Deduct	-2.12	
For>500, Deduct	-2.54	
05 05 23 00-0859 EA 3/8" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	15.14	
For>100 To 250, Deduct	-1.74	
For>250 To 500, Deduct	-2.17	
For>500, Deduct	-2.61	
05 05 23 00-0860 EA 3/8" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt	16.41	
For>100 To 250, Deduct	-1.74	
For>250 To 500, Deduct	-2.17	
For>500, Deduct	-2.61	
05 05 23 00-0861 EA 3/8" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	19.12	
For>100 To 250, Deduct	-1.74	
For>250 To 500, Deduct	-2.17	
For>500, Deduct	-2.61	
05 05 23 00-0862 EA 3/8" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt	19.97	
For>100 To 250, Deduct	-1.78	
For>250 To 500, Deduct	-2.23	
For>500, Deduct	-2.67	
05 05 23 00-0863 EA 3/8" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	20.36	
For>100 To 250, Deduct	-1.78	
For>250 To 500, Deduct	-2.23	
For>500, Deduct	-2.67	
05 05 23 00-0864 EA 3/8" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt	23.06	
For>100 To 250, Deduct	-1.78	
For>250 To 500, Deduct	-2.23	
For>500, Deduct	-2.67	
05 05 23 00-0865 7/16" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts (05 05 23 00-0815)		
05 05 23 00-0866 EA 7/16" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt	11.58	
For>100 To 250, Deduct	-1.83	
For>250 To 500, Deduct	-2.29	
For>500, Deduct	-2.74	
05 05 23 00-0867 EA 7/16" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	11.76	
For>100 To 250, Deduct	-1.83	
For>250 To 500, Deduct	-2.29	
For>500, Deduct	-2.74	
05 05 23 00-0868 EA 7/16" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	12.48	
For>100 To 250, Deduct	-1.83	
For>250 To 500, Deduct	-2.29	
For>500, Deduct	-2.74	
05 05 23 00-0869 EA 7/16" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	13.14	
For>100 To 250, Deduct	-1.87	
For>250 To 500, Deduct	-2.34	
For>500, Deduct	-2.81	
05 05 23 00-0870 EA 7/16" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	14.00	
For>100 To 250, Deduct	-1.87	
For>250 To 500, Deduct	-2.34	
For>500, Deduct	-2.81	
05 05 23 00-0871 EA 7/16" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	15.43	
For>100 To 250, Deduct	-1.87	
For>250 To 500, Deduct	-2.34	
For>500, Deduct	-2.81	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0872	EA		7/16" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	16.32 -1.92 -2.40 -2.88	
05 05 23 00-0873	EA		7/16" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	18.00 -1.92 -2.40 -2.88	
05 05 23 00-0874	EA		7/16" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	18.74 -1.92 -2.40 -2.88	
05 05 23 00-0875	EA		7/16" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	21.26 -1.97 -2.46 -2.95	
05 05 23 00-0876	EA		7/16" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	23.82 -1.97 -2.46 -2.95	
05 05 23 00-0877	EA		7/16" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	24.17 -1.97 -2.46 -2.95	
05 05 23 00-0878	EA		7/16" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	24.71 -2.01 -2.52 -3.02	
05 05 23 00-0879			1/2" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts <small>(05 05 23 00-0875)</small>		
05 05 23 00-0880	EA		1/2" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	11.56 -1.83 -2.29 -2.74	
05 05 23 00-0881	EA		1/2" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	11.76 -1.83 -2.29 -2.74	
05 05 23 00-0882	EA		1/2" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	12.89 -1.83 -2.29 -2.74	
05 05 23 00-0883	EA		1/2" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	13.57 -1.87 -2.34 -2.81	
05 05 23 00-0884	EA		1/2" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	14.59 -1.87 -2.34 -2.81	
05 05 23 00-0885	EA		1/2" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	15.15 -1.87 -2.34 -2.81	
05 05 23 00-0886	EA		1/2" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	16.05 -1.92 -2.40 -2.88	
05 05 23 00-0887	EA		1/2" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	16.54 -1.92 -2.40 -2.88	
05 05 23 00-0888	EA		1/2" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	19.23 -1.92 -2.40 -2.88	
05 05 23 00-0889	EA		1/2" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	20.19 -1.97 -2.46 -2.95	
05 05 23 00-0890	EA		1/2" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	21.40 -1.97 -2.46 -2.95	
05 05 23 00-0891	EA		1/2" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	22.78 -1.97 -2.46 -2.95	
05 05 23 00-0892	EA		1/2" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	25.03 -2.01 -2.52 -3.02	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0893 EA 1/2" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	25.85	
For>100 To 250, Deduct	-2.01	
For>250 To 500, Deduct	-2.52	
For>500, Deduct	-3.02	
05 05 23 00-0894 EA 1/2" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt	27.14	
For>100 To 250, Deduct	-2.01	
For>250 To 500, Deduct	-2.52	
For>500, Deduct	-3.02	
05 05 23 00-0895 EA 1/2" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	33.68	
For>100 To 250, Deduct	-2.06	
For>250 To 500, Deduct	-2.57	
For>500, Deduct	-3.09	
05 05 23 00-0896 EA 1/2" Diameter x 9" Length, 304/18-8 Stainless Steel, Hex Head Bolt	34.19	
For>100 To 250, Deduct	-2.06	
For>250 To 500, Deduct	-2.57	
For>500, Deduct	-3.09	
05 05 23 00-0897 EA 1/2" Diameter x 9-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	37.76	
For>100 To 250, Deduct	-2.06	
For>250 To 500, Deduct	-2.57	
For>500, Deduct	-3.09	
05 05 23 00-0898 EA 1/2" Diameter x 10" Length, 304/18-8 Stainless Steel, Hex Head Bolt	41.30	
For>100 To 250, Deduct	-2.06	
For>250 To 500, Deduct	-2.57	
For>500, Deduct	-3.09	
05 05 23 00-0899 9/16" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts (05 05 23 00-0815)		
05 05 23 00-0900 EA 9/16" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt	17.46	
For>100 To 250, Deduct	-1.83	
For>250 To 500, Deduct	-2.29	
For>500, Deduct	-2.74	
05 05 23 00-0901 EA 9/16" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	19.79	
For>100 To 250, Deduct	-1.83	
For>250 To 500, Deduct	-2.29	
For>500, Deduct	-2.74	
05 05 23 00-0902 EA 9/16" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	23.89	
For>100 To 250, Deduct	-1.83	
For>250 To 500, Deduct	-2.29	
For>500, Deduct	-2.74	
05 05 23 00-0903 EA 9/16" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	24.94	
For>100 To 250, Deduct	-1.87	
For>250 To 500, Deduct	-2.34	
For>500, Deduct	-2.81	
05 05 23 00-0904 EA 9/16" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	26.39	
For>100 To 250, Deduct	-1.87	
For>250 To 500, Deduct	-2.34	
For>500, Deduct	-2.81	
05 05 23 00-0905 EA 9/16" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	28.93	
For>100 To 250, Deduct	-1.87	
For>250 To 500, Deduct	-2.34	
For>500, Deduct	-2.81	
05 05 23 00-0906 EA 9/16" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt	32.89	
For>100 To 250, Deduct	-1.92	
For>250 To 500, Deduct	-2.40	
For>500, Deduct	-2.88	
05 05 23 00-0907 EA 9/16" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	33.46	
For>100 To 250, Deduct	-1.92	
For>250 To 500, Deduct	-2.40	
For>500, Deduct	-2.88	
05 05 23 00-0908 EA 9/16" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	38.83	
For>100 To 250, Deduct	-1.92	
For>250 To 500, Deduct	-2.40	
For>500, Deduct	-2.88	
05 05 23 00-0909 EA 9/16" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	41.58	
For>100 To 250, Deduct	-1.97	
For>250 To 500, Deduct	-2.46	
For>500, Deduct	-2.95	
05 05 23 00-0910 EA 9/16" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt	44.45	
For>100 To 250, Deduct	-1.97	
For>250 To 500, Deduct	-2.46	
For>500, Deduct	-2.95	
05 05 23 00-0911 5/8" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts (05 05 23 00-0815)		
05 05 23 00-0912 EA 5/8" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt	14.69	
For>100 To 250, Deduct	-2.06	
For>250 To 500, Deduct	-2.57	
For>500, Deduct	-3.09	
05 05 23 00-0913 EA 5/8" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	15.23	
For>100 To 250, Deduct	-2.06	
For>250 To 500, Deduct	-2.57	
For>500, Deduct	-3.09	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0914 EA 5/8" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	17.46	
<i>For >100 To 250, Deduct</i>	-2.06	
<i>For >250 To 500, Deduct</i>	-2.57	
<i>For >500, Deduct</i>	-3.09	
05 05 23 00-0915 EA 5/8" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	18.05	
<i>For >100 To 250, Deduct</i>	-2.10	
<i>For >250 To 500, Deduct</i>	-2.63	
<i>For >500, Deduct</i>	-3.15	
05 05 23 00-0916 EA 5/8" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	19.11	
<i>For >100 To 250, Deduct</i>	-2.10	
<i>For >250 To 500, Deduct</i>	-2.63	
<i>For >500, Deduct</i>	-3.15	
05 05 23 00-0917 EA 5/8" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	20.63	
<i>For >100 To 250, Deduct</i>	-2.10	
<i>For >250 To 500, Deduct</i>	-2.63	
<i>For >500, Deduct</i>	-3.15	
05 05 23 00-0918 EA 5/8" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt	22.76	
<i>For >100 To 250, Deduct</i>	-2.15	
<i>For >250 To 500, Deduct</i>	-2.69	
<i>For >500, Deduct</i>	-3.22	
05 05 23 00-0919 EA 5/8" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	22.78	
<i>For >100 To 250, Deduct</i>	-2.15	
<i>For >250 To 500, Deduct</i>	-2.69	
<i>For >500, Deduct</i>	-3.22	
05 05 23 00-0920 EA 5/8" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	24.48	
<i>For >100 To 250, Deduct</i>	-2.15	
<i>For >250 To 500, Deduct</i>	-2.69	
<i>For >500, Deduct</i>	-3.22	
05 05 23 00-0921 EA 5/8" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	25.68	
<i>For >100 To 250, Deduct</i>	-2.19	
<i>For >250 To 500, Deduct</i>	-2.74	
<i>For >500, Deduct</i>	-3.29	
05 05 23 00-0922 EA 5/8" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt	27.21	
<i>For >100 To 250, Deduct</i>	-2.19	
<i>For >250 To 500, Deduct</i>	-2.74	
<i>For >500, Deduct</i>	-3.29	
05 05 23 00-0923 EA 5/8" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	32.83	
<i>For >100 To 250, Deduct</i>	-2.19	
<i>For >250 To 500, Deduct</i>	-2.74	
<i>For >500, Deduct</i>	-3.29	
05 05 23 00-0924 EA 5/8" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt	36.13	
<i>For >100 To 250, Deduct</i>	-2.24	
<i>For >250 To 500, Deduct</i>	-2.80	
<i>For >500, Deduct</i>	-3.36	
05 05 23 00-0925 EA 5/8" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	38.67	
<i>For >100 To 250, Deduct</i>	-2.24	
<i>For >250 To 500, Deduct</i>	-2.80	
<i>For >500, Deduct</i>	-3.36	
05 05 23 00-0926 EA 5/8" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt	39.82	
<i>For >100 To 250, Deduct</i>	-2.24	
<i>For >250 To 500, Deduct</i>	-2.80	
<i>For >500, Deduct</i>	-3.36	
05 05 23 00-0927 EA 5/8" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	44.74	
<i>For >100 To 250, Deduct</i>	-2.29	
<i>For >250 To 500, Deduct</i>	-2.86	
<i>For >500, Deduct</i>	-3.43	
05 05 23 00-0928 EA 5/8" Diameter x 9" Length, 304/18-8 Stainless Steel, Hex Head Bolt	46.23	
<i>For >100 To 250, Deduct</i>	-2.29	
<i>For >250 To 500, Deduct</i>	-2.86	
<i>For >500, Deduct</i>	-3.43	
05 05 23 00-0929 EA 5/8" Diameter x 9-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	52.91	
<i>For >100 To 250, Deduct</i>	-2.29	
<i>For >250 To 500, Deduct</i>	-2.86	
<i>For >500, Deduct</i>	-3.43	
05 05 23 00-0930 EA 5/8" Diameter x 10" Length, 304/18-8 Stainless Steel, Hex Head Bolt	55.65	
<i>For >100 To 250, Deduct</i>	-2.29	
<i>For >250 To 500, Deduct</i>	-2.86	
<i>For >500, Deduct</i>	-3.43	
05 05 23 00-0931 3/4" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts <small>(05 05 23 00-0815)</small>		
05 05 23 00-0932 EA 3/4" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt	17.13	
<i>For >100 To 250, Deduct</i>	-2.06	
<i>For >250 To 500, Deduct</i>	-2.57	
<i>For >500, Deduct</i>	-3.09	
05 05 23 00-0933 EA 3/4" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	18.18	
<i>For >100 To 250, Deduct</i>	-2.06	
<i>For >250 To 500, Deduct</i>	-2.57	
<i>For >500, Deduct</i>	-3.09	
05 05 23 00-0934 EA 3/4" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	19.55	
<i>For >100 To 250, Deduct</i>	-2.06	
<i>For >250 To 500, Deduct</i>	-2.57	
<i>For >500, Deduct</i>	-3.09	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0935 EA 3/4" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	21.26	
For >100 To 250, Deduct	-2.10	
For >250 To 500, Deduct	-2.63	
For >500, Deduct	-3.15	
05 05 23 00-0936 EA 3/4" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	22.78	
For >100 To 250, Deduct	-2.10	
For >250 To 500, Deduct	-2.63	
For >500, Deduct	-3.15	
05 05 23 00-0937 EA 3/4" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	25.34	
For >100 To 250, Deduct	-2.10	
For >250 To 500, Deduct	-2.63	
For >500, Deduct	-3.15	
05 05 23 00-0938 EA 3/4" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt	27.09	
For >100 To 250, Deduct	-2.15	
For >250 To 500, Deduct	-2.69	
For >500, Deduct	-3.22	
05 05 23 00-0939 EA 3/4" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	29.46	
For >100 To 250, Deduct	-2.15	
For >250 To 500, Deduct	-2.69	
For >500, Deduct	-3.22	
05 05 23 00-0940 EA 3/4" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	31.37	
For >100 To 250, Deduct	-2.15	
For >250 To 500, Deduct	-2.69	
For >500, Deduct	-3.22	
05 05 23 00-0941 EA 3/4" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	33.56	
For >100 To 250, Deduct	-2.19	
For >250 To 500, Deduct	-2.74	
For >500, Deduct	-3.29	
05 05 23 00-0942 EA 3/4" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt	35.78	
For >100 To 250, Deduct	-2.19	
For >250 To 500, Deduct	-2.74	
For >500, Deduct	-3.29	
05 05 23 00-0943 EA 3/4" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	39.93	
For >100 To 250, Deduct	-2.19	
For >250 To 500, Deduct	-2.74	
For >500, Deduct	-3.29	
05 05 23 00-0944 EA 3/4" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt	51.20	
For >100 To 250, Deduct	-2.24	
For >250 To 500, Deduct	-2.80	
For >500, Deduct	-3.36	
05 05 23 00-0945 EA 3/4" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	54.73	
For >100 To 250, Deduct	-2.24	
For >250 To 500, Deduct	-2.80	
For >500, Deduct	-3.36	
05 05 23 00-0946 EA 3/4" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt	62.26	
For >100 To 250, Deduct	-2.24	
For >250 To 500, Deduct	-2.80	
For >500, Deduct	-3.36	
05 05 23 00-0947 EA 3/4" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	62.84	
For >100 To 250, Deduct	-2.29	
For >250 To 500, Deduct	-2.86	
For >500, Deduct	-3.43	
05 05 23 00-0948 EA 3/4" Diameter x 9" Length, 304/18-8 Stainless Steel, Hex Head Bolt	64.03	
For >100 To 250, Deduct	-2.29	
For >250 To 500, Deduct	-2.86	
For >500, Deduct	-3.43	
05 05 23 00-0949 EA 3/4" Diameter x 9-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	67.25	
For >100 To 250, Deduct	-2.29	
For >250 To 500, Deduct	-2.86	
For >500, Deduct	-3.43	
05 05 23 00-0950 EA 3/4" Diameter x 10" Length, 304/18-8 Stainless Steel, Hex Head Bolt	69.73	
For >100 To 250, Deduct	-2.29	
For >250 To 500, Deduct	-2.86	
For >500, Deduct	-3.43	
05 05 23 00-0951 7/8" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts <small>(05 05 23 00-0815)</small>		
05 05 23 00-0952 EA 7/8" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	24.83	
For >100 To 250, Deduct	-2.29	
For >250 To 500, Deduct	-2.86	
For >500, Deduct	-3.43	
05 05 23 00-0953 EA 7/8" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	27.43	
For >100 To 250, Deduct	-2.29	
For >250 To 500, Deduct	-2.86	
For >500, Deduct	-3.43	
05 05 23 00-0954 EA 7/8" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	29.64	
For >100 To 250, Deduct	-2.33	
For >250 To 500, Deduct	-2.92	
For >500, Deduct	-3.50	
05 05 23 00-0955 EA 7/8" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	32.29	
For >100 To 250, Deduct	-2.33	
For >250 To 500, Deduct	-2.92	
For >500, Deduct	-3.50	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0956 EA 7/8" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	33.15	
<i>For >100 To 250, Deduct</i>	-2.33	
<i>For >250 To 500, Deduct</i>	-2.92	
<i>For >500, Deduct</i>	-3.50	
05 05 23 00-0957 EA 7/8" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt	35.55	
<i>For >100 To 250, Deduct</i>	-2.38	
<i>For >250 To 500, Deduct</i>	-2.97	
<i>For >500, Deduct</i>	-3.57	
05 05 23 00-0958 EA 7/8" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	36.39	
<i>For >100 To 250, Deduct</i>	-2.38	
<i>For >250 To 500, Deduct</i>	-2.97	
<i>For >500, Deduct</i>	-3.57	
05 05 23 00-0959 EA 7/8" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	42.14	
<i>For >100 To 250, Deduct</i>	-2.38	
<i>For >250 To 500, Deduct</i>	-2.97	
<i>For >500, Deduct</i>	-3.57	
05 05 23 00-0960 EA 7/8" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	43.23	
<i>For >100 To 250, Deduct</i>	-2.42	
<i>For >250 To 500, Deduct</i>	-3.03	
<i>For >500, Deduct</i>	-3.64	
05 05 23 00-0961 EA 7/8" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt	45.45	
<i>For >100 To 250, Deduct</i>	-2.42	
<i>For >250 To 500, Deduct</i>	-3.03	
<i>For >500, Deduct</i>	-3.64	
05 05 23 00-0962 EA 7/8" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	57.63	
<i>For >100 To 250, Deduct</i>	-2.42	
<i>For >250 To 500, Deduct</i>	-3.03	
<i>For >500, Deduct</i>	-3.64	
05 05 23 00-0963 EA 7/8" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt	62.52	
<i>For >100 To 250, Deduct</i>	-2.47	
<i>For >250 To 500, Deduct</i>	-3.09	
<i>For >500, Deduct</i>	-3.70	
05 05 23 00-0964 EA 7/8" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	67.99	
<i>For >100 To 250, Deduct</i>	-2.47	
<i>For >250 To 500, Deduct</i>	-3.09	
<i>For >500, Deduct</i>	-3.70	
05 05 23 00-0965 EA 7/8" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt	72.40	
<i>For >100 To 250, Deduct</i>	-2.47	
<i>For >250 To 500, Deduct</i>	-3.09	
<i>For >500, Deduct</i>	-3.70	
05 05 23 00-0966 EA 7/8" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	86.00	
<i>For >100 To 250, Deduct</i>	-2.51	
<i>For >250 To 500, Deduct</i>	-3.14	
<i>For >500, Deduct</i>	-3.77	
05 05 23 00-0967 EA 7/8" Diameter x 9" Length, 304/18-8 Stainless Steel, Hex Head Bolt	96.72	
<i>For >100 To 250, Deduct</i>	-2.51	
<i>For >250 To 500, Deduct</i>	-3.14	
<i>For >500, Deduct</i>	-3.77	
05 05 23 00-0968 EA 7/8" Diameter x 9-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	101.67	
<i>For >100 To 250, Deduct</i>	-2.51	
<i>For >250 To 500, Deduct</i>	-3.14	
<i>For >500, Deduct</i>	-3.77	
05 05 23 00-0969 EA 7/8" Diameter x 10" Length, 304/18-8 Stainless Steel, Hex Head Bolt	106.61	
<i>For >100 To 250, Deduct</i>	-2.51	
<i>For >250 To 500, Deduct</i>	-3.14	
<i>For >500, Deduct</i>	-3.77	
05 05 23 00-0970 1" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts <small>(05 05 23 00-0815)</small>		
05 05 23 00-0971 EA 1" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	31.13	
<i>For >100 To 250, Deduct</i>	-2.29	
<i>For >250 To 500, Deduct</i>	-2.86	
<i>For >500, Deduct</i>	-3.43	
05 05 23 00-0972 EA 1" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	33.04	
<i>For >100 To 250, Deduct</i>	-2.29	
<i>For >250 To 500, Deduct</i>	-2.86	
<i>For >500, Deduct</i>	-3.43	
05 05 23 00-0973 EA 1" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	36.10	
<i>For >100 To 250, Deduct</i>	-2.33	
<i>For >250 To 500, Deduct</i>	-2.92	
<i>For >500, Deduct</i>	-3.50	
05 05 23 00-0974 EA 1" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	38.49	
<i>For >100 To 250, Deduct</i>	-2.33	
<i>For >250 To 500, Deduct</i>	-2.92	
<i>For >500, Deduct</i>	-3.50	
05 05 23 00-0975 EA 1" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	42.43	
<i>For >100 To 250, Deduct</i>	-2.33	
<i>For >250 To 500, Deduct</i>	-2.92	
<i>For >500, Deduct</i>	-3.50	
05 05 23 00-0976 EA 1" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt	47.08	
<i>For >100 To 250, Deduct</i>	-2.38	
<i>For >250 To 500, Deduct</i>	-2.97	
<i>For >500, Deduct</i>	-3.57	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0977 EA 1" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	49.83	
For >100 To 250, Deduct	-2.38	
For >250 To 500, Deduct	-2.97	
For >500, Deduct	-3.57	
05 05 23 00-0978 EA 1" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	53.88	
For >100 To 250, Deduct	-2.38	
For >250 To 500, Deduct	-2.97	
For >500, Deduct	-3.57	
05 05 23 00-0979 EA 1" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	57.92	
For >100 To 250, Deduct	-2.42	
For >250 To 500, Deduct	-3.03	
For >500, Deduct	-3.64	
05 05 23 00-0980 EA 1" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt	58.15	
For >100 To 250, Deduct	-2.42	
For >250 To 500, Deduct	-3.03	
For >500, Deduct	-3.64	
05 05 23 00-0981 EA 1" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	69.02	
For >100 To 250, Deduct	-2.42	
For >250 To 500, Deduct	-3.03	
For >500, Deduct	-3.64	
05 05 23 00-0982 EA 1" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt	83.01	
For >100 To 250, Deduct	-2.47	
For >250 To 500, Deduct	-3.09	
For >500, Deduct	-3.70	
05 05 23 00-0983 EA 1" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	85.06	
For >100 To 250, Deduct	-2.47	
For >250 To 500, Deduct	-3.09	
For >500, Deduct	-3.70	
05 05 23 00-0984 EA 1" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt	87.10	
For >100 To 250, Deduct	-2.47	
For >250 To 500, Deduct	-3.09	
For >500, Deduct	-3.70	
05 05 23 00-0985 EA 1" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	91.43	
For >100 To 250, Deduct	-2.51	
For >250 To 500, Deduct	-3.14	
For >500, Deduct	-3.77	
05 05 23 00-0986 EA 1" Diameter x 9" Length, 304/18-8 Stainless Steel, Hex Head Bolt	97.72	
For >100 To 250, Deduct	-2.51	
For >250 To 500, Deduct	-3.14	
For >500, Deduct	-3.77	
05 05 23 00-0987 EA 1" Diameter x 9-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	126.25	
For >100 To 250, Deduct	-2.51	
For >250 To 500, Deduct	-3.14	
For >500, Deduct	-3.77	
05 05 23 00-0988 EA 1" Diameter x 10" Length, 304/18-8 Stainless Steel, Hex Head Bolt	159.50	
For >100 To 250, Deduct	-2.51	
For >250 To 500, Deduct	-3.14	
For >500, Deduct	-3.77	
05 05 23 00-0989 316 Stainless Steel, Hex Head Bolts <small>(05 05 23 00-0987)</small>		
05 05 23 00-0990 1/4" Diameter, 316 Stainless Steel, Hex Head Bolts <small>(05 05 23 00-0989)</small>		
05 05 23 00-0991 EA 1/2" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	8.66	
For >100 To 250, Deduct	-1.60	
For >250 To 500, Deduct	-2.00	
For >500, Deduct	-2.40	
05 05 23 00-0992 EA 1" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	8.96	
For >100 To 250, Deduct	-1.60	
For >250 To 500, Deduct	-2.00	
For >500, Deduct	-2.40	
05 05 23 00-0993 EA 1-1/2" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	9.18	
For >100 To 250, Deduct	-1.60	
For >250 To 500, Deduct	-2.00	
For >500, Deduct	-2.40	
05 05 23 00-0994 EA 2" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	9.33	
For >100 To 250, Deduct	-1.60	
For >250 To 500, Deduct	-2.00	
For >500, Deduct	-2.40	
05 05 23 00-0995 EA 2-1/2" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	9.99	
For >100 To 250, Deduct	-1.65	
For >250 To 500, Deduct	-2.06	
For >500, Deduct	-2.47	
05 05 23 00-0996 EA 3" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	10.38	
For >100 To 250, Deduct	-1.65	
For >250 To 500, Deduct	-2.06	
For >500, Deduct	-2.47	
05 05 23 00-0997 EA 3-1/2" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	10.77	
For >100 To 250, Deduct	-1.65	
For >250 To 500, Deduct	-2.06	
For >500, Deduct	-2.47	
05 05 23 00-0998 EA 4" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt	11.31	
For >100 To 250, Deduct	-1.69	
For >250 To 500, Deduct	-2.12	
For >500, Deduct	-2.54	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	05 05 23 00-0999	EA		4-1/2" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt .....11.63 <i>For >100 To 250, Deduct</i> -1.69 <i>For >250 To 500, Deduct</i> -2.12 <i>For >500, Deduct</i> -2.54		
	05 05 23 00-1000	EA		5" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt .....11.78 <i>For >100 To 250, Deduct</i> -1.69 <i>For >250 To 500, Deduct</i> -2.12 <i>For >500, Deduct</i> -2.54		
	05 05 23 00-1001	EA		5-1/2" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt .....13.01 <i>For >100 To 250, Deduct</i> -1.74 <i>For >250 To 500, Deduct</i> -2.17 <i>For >500, Deduct</i> -2.61		
	05 05 23 00-1002	EA		6" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt .....13.28 <i>For >100 To 250, Deduct</i> -1.74 <i>For >250 To 500, Deduct</i> -2.17 <i>For >500, Deduct</i> -2.61		
	05 05 23 00-1003	EA		6-1/2" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt .....23.27 <i>For >100 To 250, Deduct</i> -1.74 <i>For >250 To 500, Deduct</i> -2.17 <i>For >500, Deduct</i> -2.61		
	05 05 23 00-1004	EA		7" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt .....35.60 <i>For >100 To 250, Deduct</i> -1.78 <i>For >250 To 500, Deduct</i> -2.23 <i>For >500, Deduct</i> -2.67		
	05 05 23 00-1005	EA		7-1/2" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt .....62.27 <i>For >100 To 250, Deduct</i> -1.78 <i>For >250 To 500, Deduct</i> -2.23 <i>For >500, Deduct</i> -2.67		
	05 05 23 00-1006	EA		8" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt .....68.35 <i>For >100 To 250, Deduct</i> -1.78 <i>For >250 To 500, Deduct</i> -2.23 <i>For >500, Deduct</i> -2.67		
05 05 23 00-1007				5/16" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0999)		
	05 05 23 00-1008	EA		5/16" Diameter x 1/2" Length, 316 Stainless Steel, Hex Head Bolt .....9.07 <i>For >100 To 250, Deduct</i> -1.60 <i>For >250 To 500, Deduct</i> -2.00 <i>For >500, Deduct</i> -2.40		
	05 05 23 00-1009	EA		5/16" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt .....9.41 <i>For >100 To 250, Deduct</i> -1.60 <i>For >250 To 500, Deduct</i> -2.00 <i>For >500, Deduct</i> -2.40		
	05 05 23 00-1010	EA		5/16" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....9.98 <i>For >100 To 250, Deduct</i> -1.60 <i>For >250 To 500, Deduct</i> -2.00 <i>For >500, Deduct</i> -2.40		
	05 05 23 00-1011	EA		5/16" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt .....10.42 <i>For >100 To 250, Deduct</i> -1.60 <i>For >250 To 500, Deduct</i> -2.00 <i>For >500, Deduct</i> -2.40		
	05 05 23 00-1012	EA		5/16" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....10.83 <i>For >100 To 250, Deduct</i> -1.65 <i>For >250 To 500, Deduct</i> -2.06 <i>For >500, Deduct</i> -2.47		
	05 05 23 00-1013	EA		5/16" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt .....11.71 <i>For >100 To 250, Deduct</i> -1.65 <i>For >250 To 500, Deduct</i> -2.06 <i>For >500, Deduct</i> -2.47		
	05 05 23 00-1014	EA		5/16" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....12.33 <i>For >100 To 250, Deduct</i> -1.65 <i>For >250 To 500, Deduct</i> -2.06 <i>For >500, Deduct</i> -2.47		
	05 05 23 00-1015	EA		5/16" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt .....12.82 <i>For >100 To 250, Deduct</i> -1.69 <i>For >250 To 500, Deduct</i> -2.12 <i>For >500, Deduct</i> -2.54		
	05 05 23 00-1016	EA		5/16" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....14.13 <i>For >100 To 250, Deduct</i> -1.69 <i>For >250 To 500, Deduct</i> -2.12 <i>For >500, Deduct</i> -2.54		
	05 05 23 00-1017	EA		5/16" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt .....14.40 <i>For >100 To 250, Deduct</i> -1.69 <i>For >250 To 500, Deduct</i> -2.12 <i>For >500, Deduct</i> -2.54		
	05 05 23 00-1018	EA		5/16" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....15.55 <i>For >100 To 250, Deduct</i> -1.74 <i>For >250 To 500, Deduct</i> -2.17 <i>For >500, Deduct</i> -2.61		
	05 05 23 00-1019	EA		5/16" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt .....16.58 <i>For >100 To 250, Deduct</i> -1.74 <i>For >250 To 500, Deduct</i> -2.17 <i>For >500, Deduct</i> -2.61		

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1020 EA 5/16" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt	25.08	
For >100 To 250, Deduct	-1.74	
For >250 To 500, Deduct	-2.17	
For >500, Deduct	-2.61	
05 05 23 00-1021 EA 5/16" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt	37.38	
For >100 To 250, Deduct	-1.78	
For >250 To 500, Deduct	-2.23	
For >500, Deduct	-2.67	
05 05 23 00-1022 3/8" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0989)		
05 05 23 00-1023 EA 3/8" Diameter x 1/2" Length, 316 Stainless Steel, Hex Head Bolt	9.97	
For >100 To 250, Deduct	-1.60	
For >250 To 500, Deduct	-2.00	
For >500, Deduct	-2.40	
05 05 23 00-1024 EA 3/8" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt	10.11	
For >100 To 250, Deduct	-1.60	
For >250 To 500, Deduct	-2.00	
For >500, Deduct	-2.40	
05 05 23 00-1025 EA 3/8" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt	10.64	
For >100 To 250, Deduct	-1.60	
For >250 To 500, Deduct	-2.00	
For >500, Deduct	-2.40	
05 05 23 00-1026 EA 3/8" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt	11.91	
For >100 To 250, Deduct	-1.60	
For >250 To 500, Deduct	-2.00	
For >500, Deduct	-2.40	
05 05 23 00-1027 EA 3/8" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	12.59	
For >100 To 250, Deduct	-1.65	
For >250 To 500, Deduct	-2.06	
For >500, Deduct	-2.47	
05 05 23 00-1028 EA 3/8" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt	12.82	
For >100 To 250, Deduct	-1.65	
For >250 To 500, Deduct	-2.06	
For >500, Deduct	-2.47	
05 05 23 00-1029 EA 3/8" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	13.92	
For >100 To 250, Deduct	-1.65	
For >250 To 500, Deduct	-2.06	
For >500, Deduct	-2.47	
05 05 23 00-1030 EA 3/8" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt	14.32	
For >100 To 250, Deduct	-1.69	
For >250 To 500, Deduct	-2.12	
For >500, Deduct	-2.54	
05 05 23 00-1031 EA 3/8" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	15.01	
For >100 To 250, Deduct	-1.69	
For >250 To 500, Deduct	-2.12	
For >500, Deduct	-2.54	
05 05 23 00-1032 EA 3/8" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt	15.49	
For >100 To 250, Deduct	-1.69	
For >250 To 500, Deduct	-2.12	
For >500, Deduct	-2.54	
05 05 23 00-1033 EA 3/8" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	17.25	
For >100 To 250, Deduct	-1.74	
For >250 To 500, Deduct	-2.17	
For >500, Deduct	-2.61	
05 05 23 00-1034 EA 3/8" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt	19.12	
For >100 To 250, Deduct	-1.74	
For >250 To 500, Deduct	-2.17	
For >500, Deduct	-2.61	
05 05 23 00-1035 EA 3/8" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt	19.20	
For >100 To 250, Deduct	-1.74	
For >250 To 500, Deduct	-2.17	
For >500, Deduct	-2.61	
05 05 23 00-1036 EA 3/8" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt	24.15	
For >100 To 250, Deduct	-1.78	
For >250 To 500, Deduct	-2.23	
For >500, Deduct	-2.67	
05 05 23 00-1037 EA 3/8" Diameter x 7-1/2" Length, 316 Stainless Steel, Hex Head Bolt	31.85	
For >100 To 250, Deduct	-1.78	
For >250 To 500, Deduct	-2.23	
For >500, Deduct	-2.67	
05 05 23 00-1038 EA 3/8" Diameter x 8" Length, 316 Stainless Steel, Hex Head Bolt	40.17	
For >100 To 250, Deduct	-1.78	
For >250 To 500, Deduct	-2.23	
For >500, Deduct	-2.67	
05 05 23 00-1039 7/16" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0989)		
05 05 23 00-1040 EA 7/16" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt	13.24	
For >100 To 250, Deduct	-1.83	
For >250 To 500, Deduct	-2.29	
For >500, Deduct	-2.74	



	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1041	EA 7/16" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt	.....	14.04	
	For >100 To 250, Deduct		-1.83	
	For >250 To 500, Deduct		-2.29	
	For >500, Deduct		-2.74	
05 05 23 00-1042	EA 7/16" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt	.....	15.53	
	For >100 To 250, Deduct		-1.83	
	For >250 To 500, Deduct		-2.29	
	For >500, Deduct		-2.74	
05 05 23 00-1043	EA 7/16" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	.....	17.05	
	For >100 To 250, Deduct		-1.87	
	For >250 To 500, Deduct		-2.34	
	For >500, Deduct		-2.81	
05 05 23 00-1044	EA 7/16" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt	.....	18.49	
	For >100 To 250, Deduct		-1.87	
	For >250 To 500, Deduct		-2.34	
	For >500, Deduct		-2.81	
05 05 23 00-1045	EA 7/16" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	.....	20.84	
	For >100 To 250, Deduct		-1.87	
	For >250 To 500, Deduct		-2.34	
	For >500, Deduct		-2.81	
05 05 23 00-1046	EA 7/16" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt	.....	23.32	
	For >100 To 250, Deduct		-1.92	
	For >250 To 500, Deduct		-2.40	
	For >500, Deduct		-2.88	
05 05 23 00-1047	EA 7/16" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	.....	23.73	
	For >100 To 250, Deduct		-1.92	
	For >250 To 500, Deduct		-2.40	
	For >500, Deduct		-2.88	
05 05 23 00-1048	EA 7/16" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt	.....	24.59	
	For >100 To 250, Deduct		-1.92	
	For >250 To 500, Deduct		-2.40	
	For >500, Deduct		-2.88	
05 05 23 00-1049	EA 7/16" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	.....	24.50	
	For >100 To 250, Deduct		-1.97	
	For >250 To 500, Deduct		-2.46	
	For >500, Deduct		-2.95	
05 05 23 00-1050	EA 7/16" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt	.....	26.01	
	For >100 To 250, Deduct		-1.97	
	For >250 To 500, Deduct		-2.46	
	For >500, Deduct		-2.95	
05 05 23 00-1051	EA 7/16" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt	.....	26.63	
	For >100 To 250, Deduct		-1.97	
	For >250 To 500, Deduct		-2.46	
	For >500, Deduct		-2.95	
05 05 23 00-1052	EA 7/16" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt	.....	27.35	
	For >100 To 250, Deduct		-2.01	
	For >250 To 500, Deduct		-2.52	
	For >500, Deduct		-3.02	
05 05 23 00-1053	1/2" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0989)			
05 05 23 00-1054	EA 1/2" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt	.....	13.20	
	For >100 To 250, Deduct		-1.83	
	For >250 To 500, Deduct		-2.29	
	For >500, Deduct		-2.74	
05 05 23 00-1055	EA 1/2" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt	.....	14.06	
	For >100 To 250, Deduct		-1.83	
	For >250 To 500, Deduct		-2.29	
	For >500, Deduct		-2.74	
05 05 23 00-1056	EA 1/2" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt	.....	15.26	
	For >100 To 250, Deduct		-1.83	
	For >250 To 500, Deduct		-2.29	
	For >500, Deduct		-2.74	
05 05 23 00-1057	EA 1/2" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	.....	16.93	
	For >100 To 250, Deduct		-1.87	
	For >250 To 500, Deduct		-2.34	
	For >500, Deduct		-2.81	
05 05 23 00-1058	EA 1/2" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt	.....	18.26	
	For >100 To 250, Deduct		-1.87	
	For >250 To 500, Deduct		-2.34	
	For >500, Deduct		-2.81	
05 05 23 00-1059	EA 1/2" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	.....	18.59	
	For >100 To 250, Deduct		-1.87	
	For >250 To 500, Deduct		-2.34	
	For >500, Deduct		-2.81	
05 05 23 00-1060	EA 1/2" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt	.....	19.37	
	For >100 To 250, Deduct		-1.92	
	For >250 To 500, Deduct		-2.40	
	For >500, Deduct		-2.88	
05 05 23 00-1061	EA 1/2" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	.....	21.93	
	For >100 To 250, Deduct		-1.92	
	For >250 To 500, Deduct		-2.40	
	For >500, Deduct		-2.88	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1062 EA 1/2" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt	27.13	
For>100 To 250, Deduct	-1.92	
For>250 To 500, Deduct	-2.40	
For>500, Deduct	-2.88	
05 05 23 00-1063 EA 1/2" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	27.75	
For>100 To 250, Deduct	-1.97	
For>250 To 500, Deduct	-2.46	
For>500, Deduct	-2.95	
05 05 23 00-1064 EA 1/2" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt	28.57	
For>100 To 250, Deduct	-1.97	
For>250 To 500, Deduct	-2.46	
For>500, Deduct	-2.95	
05 05 23 00-1065 EA 1/2" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt	35.00	
For>100 To 250, Deduct	-1.97	
For>250 To 500, Deduct	-2.46	
For>500, Deduct	-2.95	
05 05 23 00-1066 EA 1/2" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt	39.54	
For>100 To 250, Deduct	-2.01	
For>250 To 500, Deduct	-2.52	
For>500, Deduct	-3.02	
05 05 23 00-1067 EA 1/2" Diameter x 7-1/2" Length, 316 Stainless Steel, Hex Head Bolt	42.32	
For>100 To 250, Deduct	-2.01	
For>250 To 500, Deduct	-2.52	
For>500, Deduct	-3.02	
05 05 23 00-1068 EA 1/2" Diameter x 8" Length, 316 Stainless Steel, Hex Head Bolt	46.93	
For>100 To 250, Deduct	-2.01	
For>250 To 500, Deduct	-2.52	
For>500, Deduct	-3.02	
05 05 23 00-1069 EA 1/2" Diameter x 8-1/2" Length, 316 Stainless Steel, Hex Head Bolt	59.35	
For>100 To 250, Deduct	-2.06	
For>250 To 500, Deduct	-2.57	
For>500, Deduct	-3.09	
05 05 23 00-1070 EA 1/2" Diameter x 9" Length, 316 Stainless Steel, Hex Head Bolt	67.21	
For>100 To 250, Deduct	-2.06	
For>250 To 500, Deduct	-2.57	
For>500, Deduct	-3.09	
05 05 23 00-1071 EA 1/2" Diameter x 9-1/2" Length, 316 Stainless Steel, Hex Head Bolt	68.50	
For>100 To 250, Deduct	-2.06	
For>250 To 500, Deduct	-2.57	
For>500, Deduct	-3.09	
05 05 23 00-1072 EA 1/2" Diameter x 10" Length, 316 Stainless Steel, Hex Head Bolt	70.51	
For>100 To 250, Deduct	-2.06	
For>250 To 500, Deduct	-2.57	
For>500, Deduct	-3.09	
05 05 23 00-1073 9/16" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0989)		
05 05 23 00-1074 EA 9/16" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt	34.74	
For>100 To 250, Deduct	-1.83	
For>250 To 500, Deduct	-2.29	
For>500, Deduct	-2.74	
05 05 23 00-1075 EA 9/16" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt	37.57	
For>100 To 250, Deduct	-1.83	
For>250 To 500, Deduct	-2.29	
For>500, Deduct	-2.74	
05 05 23 00-1076 EA 9/16" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt	47.03	
For>100 To 250, Deduct	-1.83	
For>250 To 500, Deduct	-2.29	
For>500, Deduct	-2.74	
05 05 23 00-1077 EA 9/16" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	52.57	
For>100 To 250, Deduct	-1.87	
For>250 To 500, Deduct	-2.34	
For>500, Deduct	-2.81	
05 05 23 00-1078 EA 9/16" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt	58.16	
For>100 To 250, Deduct	-1.87	
For>250 To 500, Deduct	-2.34	
For>500, Deduct	-2.81	
05 05 23 00-1079 EA 9/16" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	63.75	
For>100 To 250, Deduct	-1.87	
For>250 To 500, Deduct	-2.34	
For>500, Deduct	-2.81	
05 05 23 00-1080 EA 9/16" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt	67.47	
For>100 To 250, Deduct	-1.92	
For>250 To 500, Deduct	-2.40	
For>500, Deduct	-2.88	
05 05 23 00-1081 EA 9/16" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	72.07	
For>100 To 250, Deduct	-1.92	
For>250 To 500, Deduct	-2.40	
For>500, Deduct	-2.88	
05 05 23 00-1082 EA 9/16" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt	76.17	
For>100 To 250, Deduct	-1.92	
For>250 To 500, Deduct	-2.40	
For>500, Deduct	-2.88	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	05 05 23	00-1083	EA	9/16" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	77.63	
				<i>For >100 To 250, Deduct</i>	-1.97	
				<i>For >250 To 500, Deduct</i>	-2.46	
				<i>For >500, Deduct</i>	-2.95	
	05 05 23	00-1084	EA	9/16" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt	81.23	
				<i>For >100 To 250, Deduct</i>	-1.97	
				<i>For >250 To 500, Deduct</i>	-2.46	
				<i>For >500, Deduct</i>	-2.95	
05 05 23	00-1085			5/8" Diameter, 316 Stainless Steel, Hex Head Bolts <small>(05 05 23 00-0989)</small>		
	05 05 23	00-1086	EA	5/8" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt	18.73	
				<i>For >100 To 250, Deduct</i>	-2.06	
				<i>For >250 To 500, Deduct</i>	-2.57	
				<i>For >500, Deduct</i>	-3.09	
	05 05 23	00-1087	EA	5/8" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt	18.97	
				<i>For >100 To 250, Deduct</i>	-2.06	
				<i>For >250 To 500, Deduct</i>	-2.57	
				<i>For >500, Deduct</i>	-3.09	
	05 05 23	00-1088	EA	5/8" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt	19.06	
				<i>For >100 To 250, Deduct</i>	-2.06	
				<i>For >250 To 500, Deduct</i>	-2.57	
				<i>For >500, Deduct</i>	-3.09	
	05 05 23	00-1089	EA	5/8" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	20.89	
				<i>For >100 To 250, Deduct</i>	-2.10	
				<i>For >250 To 500, Deduct</i>	-2.63	
				<i>For >500, Deduct</i>	-3.15	
	05 05 23	00-1090	EA	5/8" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt	22.55	
				<i>For >100 To 250, Deduct</i>	-2.10	
				<i>For >250 To 500, Deduct</i>	-2.63	
				<i>For >500, Deduct</i>	-3.15	
	05 05 23	00-1091	EA	5/8" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	27.82	
				<i>For >100 To 250, Deduct</i>	-2.10	
				<i>For >250 To 500, Deduct</i>	-2.63	
				<i>For >500, Deduct</i>	-3.15	
	05 05 23	00-1092	EA	5/8" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt	29.15	
				<i>For >100 To 250, Deduct</i>	-2.15	
				<i>For >250 To 500, Deduct</i>	-2.69	
				<i>For >500, Deduct</i>	-3.22	
	05 05 23	00-1093	EA	5/8" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	33.76	
				<i>For >100 To 250, Deduct</i>	-2.15	
				<i>For >250 To 500, Deduct</i>	-2.69	
				<i>For >500, Deduct</i>	-3.22	
	05 05 23	00-1094	EA	5/8" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt	35.36	
				<i>For >100 To 250, Deduct</i>	-2.15	
				<i>For >250 To 500, Deduct</i>	-2.69	
				<i>For >500, Deduct</i>	-3.22	
	05 05 23	00-1095	EA	5/8" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	38.62	
				<i>For >100 To 250, Deduct</i>	-2.19	
				<i>For >250 To 500, Deduct</i>	-2.74	
				<i>For >500, Deduct</i>	-3.29	
	05 05 23	00-1096	EA	5/8" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt	39.93	
				<i>For >100 To 250, Deduct</i>	-2.19	
				<i>For >250 To 500, Deduct</i>	-2.74	
				<i>For >500, Deduct</i>	-3.29	
	05 05 23	00-1097	EA	5/8" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt	48.00	
				<i>For >100 To 250, Deduct</i>	-2.19	
				<i>For >250 To 500, Deduct</i>	-2.74	
				<i>For >500, Deduct</i>	-3.29	
	05 05 23	00-1098	EA	5/8" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt	51.14	
				<i>For >100 To 250, Deduct</i>	-2.24	
				<i>For >250 To 500, Deduct</i>	-2.80	
				<i>For >500, Deduct</i>	-3.36	
	05 05 23	00-1099	EA	5/8" Diameter x 7-1/2" Length, 316 Stainless Steel, Hex Head Bolt	52.17	
				<i>For >100 To 250, Deduct</i>	-2.24	
				<i>For >250 To 500, Deduct</i>	-2.80	
				<i>For >500, Deduct</i>	-3.36	
	05 05 23	00-1100	EA	5/8" Diameter x 8" Length, 316 Stainless Steel, Hex Head Bolt	55.94	
				<i>For >100 To 250, Deduct</i>	-2.24	
				<i>For >250 To 500, Deduct</i>	-2.80	
				<i>For >500, Deduct</i>	-3.36	
	05 05 23	00-1101	EA	5/8" Diameter x 8-1/2" Length, 316 Stainless Steel, Hex Head Bolt	59.57	
				<i>For >100 To 250, Deduct</i>	-2.29	
				<i>For >250 To 500, Deduct</i>	-2.86	
				<i>For >500, Deduct</i>	-3.43	
	05 05 23	00-1102	EA	5/8" Diameter x 9" Length, 316 Stainless Steel, Hex Head Bolt	62.76	
				<i>For >100 To 250, Deduct</i>	-2.29	
				<i>For >250 To 500, Deduct</i>	-2.86	
				<i>For >500, Deduct</i>	-3.43	
	05 05 23	00-1103	EA	5/8" Diameter x 9-1/2" Length, 316 Stainless Steel, Hex Head Bolt	78.00	
				<i>For >100 To 250, Deduct</i>	-2.29	
				<i>For >250 To 500, Deduct</i>	-2.86	
				<i>For >500, Deduct</i>	-3.43	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1104 EA 5/8" Diameter x 10" Length, 316 Stainless Steel, Hex Head Bolt	94.28	
For >100 To 250, Deduct	-2.29	
For >250 To 500, Deduct	-2.86	
For >500, Deduct	-3.43	
05 05 23 00-1105 3/4" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0989)		
05 05 23 00-1106 EA 3/4" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt	25.14	
For >100 To 250, Deduct	-2.06	
For >250 To 500, Deduct	-2.57	
For >500, Deduct	-3.09	
05 05 23 00-1107 EA 3/4" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt	25.71	
For >100 To 250, Deduct	-2.06	
For >250 To 500, Deduct	-2.57	
For >500, Deduct	-3.09	
05 05 23 00-1108 EA 3/4" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt	27.91	
For >100 To 250, Deduct	-2.06	
For >250 To 500, Deduct	-2.57	
For >500, Deduct	-3.09	
05 05 23 00-1109 EA 3/4" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	30.05	
For >100 To 250, Deduct	-2.10	
For >250 To 500, Deduct	-2.63	
For >500, Deduct	-3.15	
05 05 23 00-1110 EA 3/4" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt	34.15	
For >100 To 250, Deduct	-2.10	
For >250 To 500, Deduct	-2.63	
For >500, Deduct	-3.15	
05 05 23 00-1111 EA 3/4" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	36.52	
For >100 To 250, Deduct	-2.10	
For >250 To 500, Deduct	-2.63	
For >500, Deduct	-3.15	
05 05 23 00-1112 EA 3/4" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt	41.81	
For >100 To 250, Deduct	-2.15	
For >250 To 500, Deduct	-2.69	
For >500, Deduct	-3.22	
05 05 23 00-1113 EA 3/4" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	43.90	
For >100 To 250, Deduct	-2.15	
For >250 To 500, Deduct	-2.69	
For >500, Deduct	-3.22	
05 05 23 00-1114 EA 3/4" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt	45.05	
For >100 To 250, Deduct	-2.15	
For >250 To 500, Deduct	-2.69	
For >500, Deduct	-3.22	
05 05 23 00-1115 EA 3/4" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	46.82	
For >100 To 250, Deduct	-2.19	
For >250 To 500, Deduct	-2.74	
For >500, Deduct	-3.29	
05 05 23 00-1116 EA 3/4" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt	49.44	
For >100 To 250, Deduct	-2.19	
For >250 To 500, Deduct	-2.74	
For >500, Deduct	-3.29	
05 05 23 00-1117 EA 3/4" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt	57.51	
For >100 To 250, Deduct	-2.19	
For >250 To 500, Deduct	-2.74	
For >500, Deduct	-3.29	
05 05 23 00-1118 EA 3/4" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt	69.41	
For >100 To 250, Deduct	-2.24	
For >250 To 500, Deduct	-2.80	
For >500, Deduct	-3.36	
05 05 23 00-1119 EA 3/4" Diameter x 7-1/2" Length, 316 Stainless Steel, Hex Head Bolt	78.51	
For >100 To 250, Deduct	-2.24	
For >250 To 500, Deduct	-2.80	
For >500, Deduct	-3.36	
05 05 23 00-1120 EA 3/4" Diameter x 8" Length, 316 Stainless Steel, Hex Head Bolt	79.88	
For >100 To 250, Deduct	-2.24	
For >250 To 500, Deduct	-2.80	
For >500, Deduct	-3.36	
05 05 23 00-1121 EA 3/4" Diameter x 8-1/2" Length, 316 Stainless Steel, Hex Head Bolt	85.58	
For >100 To 250, Deduct	-2.29	
For >250 To 500, Deduct	-2.86	
For >500, Deduct	-3.43	
05 05 23 00-1122 EA 3/4" Diameter x 9" Length, 316 Stainless Steel, Hex Head Bolt	99.36	
For >100 To 250, Deduct	-2.29	
For >250 To 500, Deduct	-2.86	
For >500, Deduct	-3.43	
05 05 23 00-1123 EA 3/4" Diameter x 9-1/2" Length, 316 Stainless Steel, Hex Head Bolt	100.53	
For >100 To 250, Deduct	-2.29	
For >250 To 500, Deduct	-2.86	
For >500, Deduct	-3.43	
05 05 23 00-1124 EA 3/4" Diameter x 10" Length, 316 Stainless Steel, Hex Head Bolt	103.44	
For >100 To 250, Deduct	-2.29	
For >250 To 500, Deduct	-2.86	
For >500, Deduct	-3.43	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1125 7/8" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0989)					
05 05 23 00-1126	EA		7/8" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt	28.37	
			<i>For >100 To 250, Deduct</i>	-2.29	
			<i>For >250 To 500, Deduct</i>	-2.86	
			<i>For >500, Deduct</i>	-3.43	
05 05 23 00-1127	EA		7/8" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt	32.16	
			<i>For >100 To 250, Deduct</i>	-2.29	
			<i>For >250 To 500, Deduct</i>	-2.86	
			<i>For >500, Deduct</i>	-3.43	
05 05 23 00-1128	EA		7/8" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	34.46	
			<i>For >100 To 250, Deduct</i>	-2.33	
			<i>For >250 To 500, Deduct</i>	-2.92	
			<i>For >500, Deduct</i>	-3.50	
05 05 23 00-1129	EA		7/8" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt	39.76	
			<i>For >100 To 250, Deduct</i>	-2.33	
			<i>For >250 To 500, Deduct</i>	-2.92	
			<i>For >500, Deduct</i>	-3.50	
05 05 23 00-1130	EA		7/8" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	42.14	
			<i>For >100 To 250, Deduct</i>	-2.33	
			<i>For >250 To 500, Deduct</i>	-2.92	
			<i>For >500, Deduct</i>	-3.50	
05 05 23 00-1131	EA		7/8" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt	44.46	
			<i>For >100 To 250, Deduct</i>	-2.38	
			<i>For >250 To 500, Deduct</i>	-2.97	
			<i>For >500, Deduct</i>	-3.57	
05 05 23 00-1132	EA		7/8" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	47.67	
			<i>For >100 To 250, Deduct</i>	-2.38	
			<i>For >250 To 500, Deduct</i>	-2.97	
			<i>For >500, Deduct</i>	-3.57	
05 05 23 00-1133	EA		7/8" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt	54.90	
			<i>For >100 To 250, Deduct</i>	-2.38	
			<i>For >250 To 500, Deduct</i>	-2.97	
			<i>For >500, Deduct</i>	-3.57	
05 05 23 00-1134	EA		7/8" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	55.32	
			<i>For >100 To 250, Deduct</i>	-2.42	
			<i>For >250 To 500, Deduct</i>	-3.03	
			<i>For >500, Deduct</i>	-3.64	
05 05 23 00-1135	EA		7/8" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt	57.72	
			<i>For >100 To 250, Deduct</i>	-2.42	
			<i>For >250 To 500, Deduct</i>	-3.03	
			<i>For >500, Deduct</i>	-3.64	
05 05 23 00-1136	EA		7/8" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt	77.95	
			<i>For >100 To 250, Deduct</i>	-2.42	
			<i>For >250 To 500, Deduct</i>	-3.03	
			<i>For >500, Deduct</i>	-3.64	
05 05 23 00-1137	EA		7/8" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt	87.10	
			<i>For >100 To 250, Deduct</i>	-2.47	
			<i>For >250 To 500, Deduct</i>	-3.09	
			<i>For >500, Deduct</i>	-3.70	
05 05 23 00-1138	EA		7/8" Diameter x 7-1/2" Length, 316 Stainless Steel, Hex Head Bolt	96.71	
			<i>For >100 To 250, Deduct</i>	-2.47	
			<i>For >250 To 500, Deduct</i>	-3.09	
			<i>For >500, Deduct</i>	-3.70	
05 05 23 00-1139	EA		7/8" Diameter x 8" Length, 316 Stainless Steel, Hex Head Bolt	101.44	
			<i>For >100 To 250, Deduct</i>	-2.47	
			<i>For >250 To 500, Deduct</i>	-3.09	
			<i>For >500, Deduct</i>	-3.70	
05 05 23 00-1140	EA		7/8" Diameter x 8-1/2" Length, 316 Stainless Steel, Hex Head Bolt	107.82	
			<i>For >100 To 250, Deduct</i>	-2.51	
			<i>For >250 To 500, Deduct</i>	-3.14	
			<i>For >500, Deduct</i>	-3.77	
05 05 23 00-1141	EA		7/8" Diameter x 9" Length, 316 Stainless Steel, Hex Head Bolt	111.93	
			<i>For >100 To 250, Deduct</i>	-2.51	
			<i>For >250 To 500, Deduct</i>	-3.14	
			<i>For >500, Deduct</i>	-3.77	
05 05 23 00-1142	EA		7/8" Diameter x 9-1/2" Length, 316 Stainless Steel, Hex Head Bolt	116.01	
			<i>For >100 To 250, Deduct</i>	-2.51	
			<i>For >250 To 500, Deduct</i>	-3.14	
			<i>For >500, Deduct</i>	-3.77	
05 05 23 00-1143	EA		7/8" Diameter x 10" Length, 316 Stainless Steel, Hex Head Bolt	120.60	
			<i>For >100 To 250, Deduct</i>	-2.51	
			<i>For >250 To 500, Deduct</i>	-3.14	
			<i>For >500, Deduct</i>	-3.77	
05 05 23 00-1144 1" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0989)					
05 05 23 00-1145	EA		1" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt	36.71	
			<i>For >100 To 250, Deduct</i>	-2.29	
			<i>For >250 To 500, Deduct</i>	-2.86	
			<i>For >500, Deduct</i>	-3.43	
05 05 23 00-1146	EA		1" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	42.77	
			<i>For >100 To 250, Deduct</i>	-2.33	
			<i>For >250 To 500, Deduct</i>	-2.92	
			<i>For >500, Deduct</i>	-3.50	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1147 EA 1" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt	46.69	
For>100 To 250, Deduct	-2.33	
For>250 To 500, Deduct	-2.92	
For>500, Deduct	-3.50	
05 05 23 00-1148 EA 1" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	52.93	
For>100 To 250, Deduct	-2.33	
For>250 To 500, Deduct	-2.92	
For>500, Deduct	-3.50	
05 05 23 00-1149 EA 1" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt	55.40	
For>100 To 250, Deduct	-2.38	
For>250 To 500, Deduct	-2.97	
For>500, Deduct	-3.57	
05 05 23 00-1150 EA 1" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	59.64	
For>100 To 250, Deduct	-2.38	
For>250 To 500, Deduct	-2.97	
For>500, Deduct	-3.57	
05 05 23 00-1151 EA 1" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt	63.92	
For>100 To 250, Deduct	-2.38	
For>250 To 500, Deduct	-2.97	
For>500, Deduct	-3.57	
05 05 23 00-1152 EA 1" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	68.45	
For>100 To 250, Deduct	-2.42	
For>250 To 500, Deduct	-3.03	
For>500, Deduct	-3.64	
05 05 23 00-1153 EA 1" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt	79.51	
For>100 To 250, Deduct	-2.42	
For>250 To 500, Deduct	-3.03	
For>500, Deduct	-3.64	
05 05 23 00-1154 EA 1" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt	90.41	
For>100 To 250, Deduct	-2.42	
For>250 To 500, Deduct	-3.03	
For>500, Deduct	-3.64	
05 05 23 00-1155 EA 1" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt	105.54	
For>100 To 250, Deduct	-2.47	
For>250 To 500, Deduct	-3.09	
For>500, Deduct	-3.70	
05 05 23 00-1156 EA 1" Diameter x 7-1/2" Length, 316 Stainless Steel, Hex Head Bolt	118.07	
For>100 To 250, Deduct	-2.47	
For>250 To 500, Deduct	-3.09	
For>500, Deduct	-3.70	
05 05 23 00-1157 EA 1" Diameter x 8" Length, 316 Stainless Steel, Hex Head Bolt	119.88	
For>100 To 250, Deduct	-2.47	
For>250 To 500, Deduct	-3.09	
For>500, Deduct	-3.70	
05 05 23 00-1158 EA 1" Diameter x 8-1/2" Length, 316 Stainless Steel, Hex Head Bolt	124.20	
For>100 To 250, Deduct	-2.51	
For>250 To 500, Deduct	-3.14	
For>500, Deduct	-3.77	
05 05 23 00-1159 EA 1" Diameter x 9" Length, 316 Stainless Steel, Hex Head Bolt	125.92	
For>100 To 250, Deduct	-2.51	
For>250 To 500, Deduct	-3.14	
For>500, Deduct	-3.77	
05 05 23 00-1160 EA 1" Diameter x 9-1/2" Length, 316 Stainless Steel, Hex Head Bolt	146.74	
For>100 To 250, Deduct	-2.51	
For>250 To 500, Deduct	-3.14	
For>500, Deduct	-3.77	
05 05 23 00-1161 EA 1" Diameter x 10" Length, 316 Stainless Steel, Hex Head Bolt	166.83	
For>100 To 250, Deduct	-2.51	
For>250 To 500, Deduct	-3.14	
For>500, Deduct	-3.77	
05 05 23 00-1162 Screws (05 05 23)		
05 05 23 00-1163 Teks® 5 Self Drilling Screws (05 05 23 00-1162)		
Note: Includes Climaseal® finish, self-drill point and tapping threads.		
05 05 23 00-1164 EA 12-24 x 1-1/4", Hex Washer Head, Teks® 5 Self Drilling Screw	4.33	
For>10 To 50, Deduct	-0.19	
For>50 To 100, Deduct	-0.39	
For>100, Deduct	-0.79	
05 05 23 00-1165 EA 12-24 x 1-1/2", Hex Washer Head, Teks® 5 Self Drilling Screw	4.51	
For>10 To 50, Deduct	-0.19	
For>50 To 100, Deduct	-0.40	
For>100, Deduct	-0.80	
05 05 23 00-1166 EA 12-24 x 2", Hex Washer Head, Teks® 5 Self Drilling Screw	5.03	
For>10 To 50, Deduct	-0.20	
For>50 To 100, Deduct	-0.43	
For>100, Deduct	-0.86	
05 05 23 00-1167 EA 1/4" x 3", 28 TPI, Hex Washer Head, Teks® 5 Self Drilling Screw	6.92	
For>10 To 50, Deduct	-0.25	
For>50 To 100, Deduct	-0.55	
For>100, Deduct	-1.11	
05 05 23 00-1168 EA 1/4" x 4", 28 TPI, Hex Washer Head, Teks® 5 Self Drilling Screw	7.39	
For>10 To 50, Deduct	-0.27	
For>50 To 100, Deduct	-0.58	
For>100, Deduct	-1.17	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1169 EA 1/4" x 6", 28 TPI, Hex Washer Head, Teks® 5 Self Drilling Screw	9.15	
<i>For >10 To 50, Deduct</i>	-0.28	
<i>For >50 To 100, Deduct</i>	-0.65	
<i>For >100, Deduct</i>	-1.30	
05 05 23 00-1170 EA 1/4" x 8", 28 TPI, Hex Washer Head, Teks® 5 Self Drilling Screw	10.22	
<i>For >10 To 50, Deduct</i>	-0.29	
<i>For >50 To 100, Deduct</i>	-0.69	
<i>For >100, Deduct</i>	-1.39	
05 05 23 00-1171 Security Screws <small>(05 05 23 00-1162)</small>		
05 05 23 00-1172 304/18-8 Stainless Steel, Security Screws <small>(05 05 23 00-1171)</small>		
<small>Note: Includes "security" style drive in machine or sheet metal screw threads.</small>		
05 05 23 00-1173 EA #4 Diameter x 1/2" Length, 304/18-8 Stainless Steel, Security Screws	3.42	
<i>For >10 To 50, Deduct</i>	-0.16	
<i>For >50 To 100, Deduct</i>	-0.33	
<i>For >100, Deduct</i>	-0.65	
05 05 23 00-1174 EA #6 Diameter x 1/2" Length, 304/18-8 Stainless Steel, Security Screw	4.01	
<i>For >10 To 50, Deduct</i>	-0.16	
<i>For >50 To 100, Deduct</i>	-0.34	
<i>For >100, Deduct</i>	-0.68	
05 05 23 00-1175 EA #6 Diameter x 1" Length, 304/18-8 Stainless Steel, Security Screw	4.51	
<i>For >10 To 50, Deduct</i>	-0.16	
<i>For >50 To 100, Deduct</i>	-0.35	
<i>For >100, Deduct</i>	-0.71	
05 05 23 00-1176 EA #6 Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Security Screw	4.69	
<i>For >10 To 50, Deduct</i>	-0.16	
<i>For >50 To 100, Deduct</i>	-0.36	
<i>For >100, Deduct</i>	-0.71	
05 05 23 00-1177 EA #6 Diameter x 2" Length, 304/18-8 Stainless Steel, Security Screw	5.01	
<i>For >10 To 50, Deduct</i>	-0.16	
<i>For >50 To 100, Deduct</i>	-0.37	
<i>For >100, Deduct</i>	-0.73	
05 05 23 00-1178 EA #8 Diameter x 1/2" Length, 304/18-8 Stainless Steel, Security Screw	4.14	
<i>For >10 To 50, Deduct</i>	-0.16	
<i>For >50 To 100, Deduct</i>	-0.34	
<i>For >100, Deduct</i>	-0.69	
05 05 23 00-1179 EA #8 Diameter x 1" Length, 304/18-8 Stainless Steel, Security Screw	4.38	
<i>For >10 To 50, Deduct</i>	-0.16	
<i>For >50 To 100, Deduct</i>	-0.35	
<i>For >100, Deduct</i>	-0.70	
05 05 23 00-1180 EA #8 Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Security Screw	4.88	
<i>For >10 To 50, Deduct</i>	-0.16	
<i>For >50 To 100, Deduct</i>	-0.36	
<i>For >100, Deduct</i>	-0.72	
05 05 23 00-1181 EA #8 Diameter x 2" Length, 304/18-8 Stainless Steel, Security Screw	5.04	
<i>For >10 To 50, Deduct</i>	-0.16	
<i>For >50 To 100, Deduct</i>	-0.37	
<i>For >100, Deduct</i>	-0.73	
05 05 23 00-1182 EA #10 Diameter x 1/2" Length, 304/18-8 Stainless Steel, Security Screw	4.29	
<i>For >10 To 50, Deduct</i>	-0.16	
<i>For >50 To 100, Deduct</i>	-0.35	
<i>For >100, Deduct</i>	-0.69	
05 05 23 00-1183 EA #10 Diameter x 1" Length, 304/18-8 Stainless Steel, Security Screw	4.36	
<i>For >10 To 50, Deduct</i>	-0.16	
<i>For >50 To 100, Deduct</i>	-0.35	
<i>For >100, Deduct</i>	-0.70	
05 05 23 00-1184 EA #10 Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Security Screw	4.58	
<i>For >10 To 50, Deduct</i>	-0.16	
<i>For >50 To 100, Deduct</i>	-0.35	
<i>For >100, Deduct</i>	-0.71	
05 05 23 00-1185 EA #10 Diameter x 2" Length, 304/18-8 Stainless Steel, Security Screw	5.25	
<i>For >10 To 50, Deduct</i>	-0.16	
<i>For >50 To 100, Deduct</i>	-0.37	
<i>For >100, Deduct</i>	-0.74	
05 05 23 00-1186 EA 1/4" Diameter x 1/2" Length, 304/18-8 Stainless Steel, Security Screw	4.69	
<i>For >10 To 50, Deduct</i>	-0.16	
<i>For >50 To 100, Deduct</i>	-0.36	
<i>For >100, Deduct</i>	-0.71	
05 05 23 00-1187 EA 1/4" Diameter x 1" Length, 304/18-8 Stainless Steel, Security Screw	4.84	
<i>For >10 To 50, Deduct</i>	-0.16	
<i>For >50 To 100, Deduct</i>	-0.36	
<i>For >100, Deduct</i>	-0.72	
05 05 23 00-1188 EA 1/4" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Security Screw	5.49	
<i>For >10 To 50, Deduct</i>	-0.16	
<i>For >50 To 100, Deduct</i>	-0.38	
<i>For >100, Deduct</i>	-0.75	
05 05 23 00-1189 EA 1/4" Diameter x 2" Length, 304/18-8 Stainless Steel, Security Screw	6.52	
<i>For >10 To 50, Deduct</i>	-0.16	
<i>For >50 To 100, Deduct</i>	-0.40	
<i>For >100, Deduct</i>	-0.81	

05 05 23 00-1190

Threaded Rod (05 05 23)

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

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
			washers.		
05 05 23 00-1191			Plain Finish Steel, Low Carbon Threaded Rod (05 05 23 00-1190)		
05 05 23 00-1192	LF		1/4" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	2.61	0.56
			<i>For Left Hand Threaded Rod, Add</i>	0.15	
05 05 23 00-1193	LF		5/16" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	3.48	0.62
			<i>For Left Hand Threaded Rod, Add</i>	0.22	
05 05 23 00-1194	LF		3/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	4.04	0.72
			<i>For Left Hand Threaded Rod, Add</i>	0.26	
05 05 23 00-1195	LF		7/16" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	5.55	0.73
			<i>For Left Hand Threaded Rod, Add</i>	0.41	
05 05 23 00-1196	LF		1/2" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	5.69	0.76
			<i>For Left Hand Threaded Rod, Add</i>	0.42	
05 05 23 00-1197	LF		9/16" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	7.12	0.77
			<i>For Left Hand Threaded Rod, Add</i>	0.56	
05 05 23 00-1198	LF		5/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	8.05	0.78
			<i>For Left Hand Threaded Rod, Add</i>	0.65	
05 05 23 00-1199	LF		3/4" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	13.39	0.81
			<i>For Left Hand Threaded Rod, Add</i>	1.18	
05 05 23 00-1200	LF		7/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	14.62	0.83
			<i>For Left Hand Threaded Rod, Add</i>	1.30	
05 05 23 00-1201	LF		1" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	20.08	0.94
			<i>For Left Hand Threaded Rod, Add</i>	1.82	
05 05 23 00-1202	LF		1-1/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	25.04	1.05
			<i>For Left Hand Threaded Rod, Add</i>	2.30	
05 05 23 00-1203	LF		1-1/4" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	33.31	1.13
			<i>For Left Hand Threaded Rod, Add</i>	3.10	
05 05 23 00-1204	LF		1-3/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	41.54	1.23
			<i>For Left Hand Threaded Rod, Add</i>	3.91	
05 05 23 00-1205	LF		1-1/2" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	49.77	1.28
			<i>For Left Hand Threaded Rod, Add</i>	4.72	
05 05 23 00-1206	LF		1-3/4" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	61.13	1.34
			<i>For Left Hand Threaded Rod, Add</i>	5.84	
05 05 23 00-1207	LF		2" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	78.21	1.41
			<i>For Left Hand Threaded Rod, Add</i>	7.54	
05 05 23 00-1208			Zinc Plated Steel, Low Carbon Threaded Rod (05 05 23 00-1190)		
05 05 23 00-1209	LF		1/4" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	2.63	0.56
			<i>For Left Hand Threaded Rod, Add</i>	0.15	
05 05 23 00-1210	LF		5/16" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	3.97	0.62
			<i>For Left Hand Threaded Rod, Add</i>	0.27	
05 05 23 00-1211	LF		3/8" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	4.41	0.72
			<i>For Left Hand Threaded Rod, Add</i>	0.30	
05 05 23 00-1212	LF		7/16" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	6.47	0.73
			<i>For Left Hand Threaded Rod, Add</i>	0.50	
05 05 23 00-1213	LF		1/2" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	6.99	0.76
			<i>For Left Hand Threaded Rod, Add</i>	0.55	
05 05 23 00-1214	LF		9/16" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	9.24	0.77
			<i>For Left Hand Threaded Rod, Add</i>	0.77	
05 05 23 00-1215	LF		5/8" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	9.83	0.78
			<i>For Left Hand Threaded Rod, Add</i>	0.83	
05 05 23 00-1216	LF		3/4" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	14.92	0.81
			<i>For Left Hand Threaded Rod, Add</i>	1.33	
05 05 23 00-1217	LF		7/8" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	19.41	0.83
			<i>For Left Hand Threaded Rod, Add</i>	1.78	
05 05 23 00-1218	LF		1" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	26.11	0.94
			<i>For Left Hand Threaded Rod, Add</i>	2.42	
05 05 23 00-1219	LF		1-1/8" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	33.77	1.05
			<i>For Left Hand Threaded Rod, Add</i>	3.17	
05 05 23 00-1220	LF		1-1/4" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	40.33	1.13
			<i>For Left Hand Threaded Rod, Add</i>	3.80	
05 05 23 00-1221	LF		1-3/8" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	45.89	1.23
			<i>For Left Hand Threaded Rod, Add</i>	4.34	
05 05 23 00-1222	LF		1-1/2" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	57.90	1.28
			<i>For Left Hand Threaded Rod, Add</i>	5.53	
05 05 23 00-1223	LF		1-3/4" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	71.84	1.34
			<i>For Left Hand Threaded Rod, Add</i>	6.92	
05 05 23 00-1224	LF		2" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	105.05	1.41
			<i>For Left Hand Threaded Rod, Add</i>	10.22	
05 05 23 00-1225			Hot Dipped Galvanized Steel, Low Carbon Threaded Rod (05 05 23 00-1190)		
05 05 23 00-1226	LF		3/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod	7.46	0.72
			<i>For Left Hand Threaded Rod, Add</i>	0.61	
05 05 23 00-1227	LF		1/2" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod	10.53	0.76
			<i>For Left Hand Threaded Rod, Add</i>	0.90	
05 05 23 00-1228	LF		5/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod	14.32	0.78
			<i>For Left Hand Threaded Rod, Add</i>	1.28	
05 05 23 00-1229	LF		3/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod	19.76	0.81
			<i>For Left Hand Threaded Rod, Add</i>	1.82	
05 05 23 00-1230	LF		7/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod	27.47	0.83
			<i>For Left Hand Threaded Rod, Add</i>	2.58	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1231	LF		1" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	35.49 3.36	0.94
05 05 23 00-1232	LF		1-1/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	46.77 4.47	1.05
05 05 23 00-1233	LF		1-1/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	61.58 5.92	1.13
05 05 23 00-1234	LF		1-3/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	68.87 6.64	1.23
05 05 23 00-1235	LF		1-1/2" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	82.06 7.95	1.28
05 05 23 00-1236	LF		1-3/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	99.78 9.71	1.34
05 05 23 00-1237	LF		2" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	174.54 17.17	1.41
05 05 23 00-1238			304/18-8 Stainless Steel Threaded Rod <small>(05 05 23 00-1190)</small>		
05 05 23 00-1239	LF		1/4" Diameter, 304/18-8 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	4.22 0.31	0.56
05 05 23 00-1240	LF		5/16" Diameter, 304/18-8 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	6.53 0.53	0.62
05 05 23 00-1241	LF		3/8" Diameter, 304/18-8 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	8.47 0.71	0.72
05 05 23 00-1242	LF		7/16" Diameter, 304/18-8 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	11.95 1.05	0.73
05 05 23 00-1243	LF		1/2" Diameter, 304/18-8 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	14.43 1.29	0.76
05 05 23 00-1244	LF		9/16" Diameter, 304/18-8 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	20.99 1.95	0.77
05 05 23 00-1245	LF		5/8" Diameter, 304/18-8 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	21.94 2.04	0.78
05 05 23 00-1246	LF		3/4" Diameter, 304/18-8 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	30.93 2.93	0.81
05 05 23 00-1247	LF		7/8" Diameter, 304/18-8 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	42.76 4.11	0.83
05 05 23 00-1248	LF		1" Diameter, 304/18-8 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	54.94 5.31	0.94
05 05 23 00-1249	LF		1-1/4" Diameter, 304/18-8 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	116.92 11.46	1.13
05 05 23 00-1250	LF		1-1/2" Diameter, 304/18-8 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	178.42 17.59	1.28
05 05 23 00-1251	LF		1-3/4" Diameter, 304/18-8 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	183.51 18.08	1.34
05 05 23 00-1252	LF		2" Diameter, 304/18-8 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	254.26 25.14	1.41
05 05 23 00-1253			316 Stainless Steel Threaded Rod <small>(05 05 23 00-1190)</small>		
05 05 23 00-1254	LF		1/4" Diameter, 316 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	6.31 0.52	0.56
05 05 23 00-1255	LF		5/16" Diameter, 316 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	10.38 0.91	0.62
05 05 23 00-1256	LF		3/8" Diameter, 316 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	13.87 1.25	0.72
05 05 23 00-1257	LF		7/16" Diameter, 316 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	21.93 2.05	0.73
05 05 23 00-1258	LF		1/2" Diameter, 316 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	23.28 2.18	0.76
05 05 23 00-1259	LF		9/16" Diameter, 316 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	30.72 2.92	0.77
05 05 23 00-1260	LF		5/8" Diameter, 316 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	33.10 3.15	0.78
05 05 23 00-1261	LF		3/4" Diameter, 316 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	48.50 4.69	0.81
05 05 23 00-1262	LF		7/8" Diameter, 316 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	66.61 6.50	0.83
05 05 23 00-1263	LF		1" Diameter, 316 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	84.37 8.25	0.94
05 05 23 00-1264	LF		1-1/4" Diameter, 316 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	178.72 17.64	1.13
05 05 23 00-1265	LF		1-1/2" Diameter, 316 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	234.47 23.19	1.28
05 05 23 00-1266			Plain Finish Steel, B-7 Alloy Threaded Rod <small>(05 05 23 00-1190)</small>		
05 05 23 00-1267	LF		1/4" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod..... <i>For Zinc Plating, Add</i>	4.70 1.79	0.56
05 05 23 00-1268	LF		5/16" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod..... <i>For Zinc Plating, Add</i>	7.35 3.06	0.62
05 05 23 00-1269	LF		3/8" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod..... <i>For Zinc Plating, Add</i>	7.67 3.13	0.72
05 05 23 00-1270	LF		7/16" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod..... <i>For Zinc Plating, Add</i>	8.39 3.47	0.73

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1271 LF 1/2" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod	9.27	0.76
For Zinc Plating, Add	3.89	
05 05 23 00-1272 LF 9/16" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod	11.66	0.77
For Zinc Plating, Add	5.07	
05 05 23 00-1273 LF 5/8" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod	12.04	0.78
For Zinc Plating, Add	5.24	
05 05 23 00-1274 LF 3/4" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod	16.10	0.81
For Zinc Plating, Add	7.25	
05 05 23 00-1275 LF 7/8" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod	19.36	0.83
For Zinc Plating, Add	8.85	
05 05 23 00-1276 LF 1" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod	25.18	0.94
For Zinc Plating, Add	11.65	
05 05 23 00-1277 LF 1-1/8" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod	32.84	1.05
For Zinc Plating, Add	15.38	
05 05 23 00-1278 LF 1-1/4" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod	36.55	1.13
For Zinc Plating, Add	17.10	
05 05 23 00-1279 LF 1-3/8" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod	42.24	1.23
For Zinc Plating, Add	19.90	
05 05 23 00-1280 LF 1-1/2" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod	51.48	1.28
For Zinc Plating, Add	24.46	
05 05 23 00-1281 LF 1-3/4" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod	53.21	1.34
For Zinc Plating, Add	25.26	
05 05 23 00-1282 LF 2" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod	71.60	1.41
For Zinc Plating, Add	34.39	
05 05 23 00-1283 Nuts And Washers (05 05 23)		
05 05 23 00-1284 Hex Nuts (05 05 23 00-1283)		
05 05 23 00-1285 Zinc Plated Steel, Low Carbon/Grade 2 Hex Nuts (05 05 23 00-1284)		
05 05 23 00-1286 EA 1/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	0.71	0.32
05 05 23 00-1287 EA 5/16" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	0.80	0.32
05 05 23 00-1288 EA 3/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	0.85	0.32
05 05 23 00-1289 EA 7/16" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	0.99	0.32
05 05 23 00-1290 EA 1/2" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	1.08	0.32
05 05 23 00-1291 EA 9/16" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	1.44	0.32
05 05 23 00-1292 EA 5/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	1.49	0.32
05 05 23 00-1293 EA 3/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	1.77	0.63
05 05 23 00-1294 EA 7/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	2.62	0.63
05 05 23 00-1295 EA 1" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	3.33	0.63
05 05 23 00-1296 EA 1-1/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	5.48	0.63
05 05 23 00-1297 EA 1-1/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	6.72	0.63
05 05 23 00-1298 EA 1-3/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	9.91	0.63
05 05 23 00-1299 EA 1-1/2" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	11.48	0.96
05 05 23 00-1300 EA 1-3/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	16.90	0.96
05 05 23 00-1301 EA 2" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	24.46	0.96
05 05 23 00-1302 Zinc Plated Steel, Grade 5 Hex Nuts (05 05 23 00-1284)		
05 05 23 00-1303 EA 1/4" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	0.73	0.32
05 05 23 00-1304 EA 5/16" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	0.81	0.32
05 05 23 00-1305 EA 3/8" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	0.88	0.32
05 05 23 00-1306 EA 7/16" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	1.03	0.32
05 05 23 00-1307 EA 1/2" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	1.22	0.32
05 05 23 00-1308 EA 9/16" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	1.48	0.32
05 05 23 00-1309 EA 5/8" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	1.52	0.32
05 05 23 00-1310 EA 3/4" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	2.01	0.63
05 05 23 00-1311 EA 7/8" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	2.86	0.63
05 05 23 00-1312 EA 1" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	4.05	0.63
05 05 23 00-1313 EA 1-1/8" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	6.20	0.63
05 05 23 00-1314 EA 1-1/4" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	8.79	0.63
05 05 23 00-1315 EA 1-3/8" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	12.93	0.63
05 05 23 00-1316 EA 1-1/2" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	14.29	0.96
05 05 23 00-1317 EA 1-3/4" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	25.86	0.96
05 05 23 00-1318 EA 2" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	37.11	0.96
05 05 23 00-1319 Zinc Plated Steel, Grade 8 Hex Nuts (05 05 23 00-1284)		
05 05 23 00-1320 EA 1/4" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	0.75	0.32
05 05 23 00-1321 EA 5/16" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	0.87	0.32
05 05 23 00-1322 EA 3/8" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	0.94	0.32
05 05 23 00-1323 EA 7/16" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	1.18	0.32
05 05 23 00-1324 EA 1/2" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	1.43	0.32
05 05 23 00-1325 EA 9/16" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	1.72	0.32
05 05 23 00-1326 EA 5/8" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	1.96	0.32
05 05 23 00-1327 EA 3/4" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	2.45	0.63
05 05 23 00-1328 EA 7/8" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	3.70	0.63
05 05 23 00-1329 EA 1" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	4.94	0.63
05 05 23 00-1330 EA 1-1/8" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	7.76	0.63
05 05 23 00-1331 EA 1-1/4" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	9.69	0.63
05 05 23 00-1332 EA 1-3/8" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	16.00	0.63



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1333 EA 1-1/2" Diameter, Zinc Plated Steel, Grade 8 Hex Nut.....	16.98	0.96
05 05 23 00-1334 EA 1-3/4" Diameter, Zinc Plated Steel, Grade 8 Hex Nut.....	25.93	0.96
05 05 23 00-1335 EA 2" Diameter, Zinc Plated Steel, Grade 8 Hex Nut.....	36.70	0.96
05 05 23 00-1336 Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nuts <small>(05 05 23 00-1284)</small>		
05 05 23 00-1337 EA 1/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut.....	0.75	0.32
05 05 23 00-1338 EA 5/16" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut.....	0.85	0.32
05 05 23 00-1339 EA 3/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut.....	0.92	0.32
05 05 23 00-1340 EA 7/16" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut.....	1.16	0.32
05 05 23 00-1341 EA 1/2" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut.....	1.34	0.32
05 05 23 00-1342 EA 9/16" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut.....	1.50	0.32
05 05 23 00-1343 EA 5/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut.....	1.66	0.32
05 05 23 00-1344 EA 3/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut.....	2.23	0.63
05 05 23 00-1345 EA 7/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut.....	3.26	0.63
05 05 23 00-1346 EA 1" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut.....	4.51	0.63
05 05 23 00-1347 EA 1-1/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut.....	7.50	0.63
05 05 23 00-1348 EA 1-1/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut.....	9.63	0.63
05 05 23 00-1349 EA 1-3/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut.....	14.32	0.63
05 05 23 00-1350 EA 1-1/2" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut.....	16.72	0.96
05 05 23 00-1351 EA 1-3/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut.....	29.21	0.96
05 05 23 00-1352 EA 2" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut.....	50.60	0.96
05 05 23 00-1353 304 Stainless Steel Hex Nuts <small>(05 05 23 00-1284)</small>		
05 05 23 00-1354 EA 1/4" Diameter, 304 Stainless Steel Hex Nut.....	0.88	0.32
05 05 23 00-1355 EA 5/16" Diameter, 304 Stainless Steel Hex Nut.....	1.06	0.32
05 05 23 00-1356 EA 3/8" Diameter, 304 Stainless Steel Hex Nut.....	1.21	0.32
05 05 23 00-1357 EA 7/16" Diameter, 304 Stainless Steel Hex Nut.....	1.88	0.32
05 05 23 00-1358 EA 1/2" Diameter, 304 Stainless Steel Hex Nut.....	2.04	0.32
05 05 23 00-1359 EA 9/16" Diameter, 304 Stainless Steel Hex Nut.....	3.21	0.32
05 05 23 00-1360 EA 5/8" Diameter, 304 Stainless Steel Hex Nut.....	3.60	0.32
05 05 23 00-1361 EA 3/4" Diameter, 304 Stainless Steel Hex Nut.....	4.16	0.63
05 05 23 00-1362 EA 7/8" Diameter, 304 Stainless Steel Hex Nut.....	6.96	0.63
05 05 23 00-1363 EA 1" Diameter, 304 Stainless Steel Hex Nut.....	10.75	0.63
05 05 23 00-1364 EA 1-1/4" Diameter, 304 Stainless Steel Hex Nut.....	26.16	0.63
05 05 23 00-1365 EA 1-1/2" Diameter, 304 Stainless Steel Hex Nut.....	50.54	0.96
05 05 23 00-1366 EA 1-3/4" Diameter, 304 Stainless Steel Hex Nut.....	89.16	0.96
05 05 23 00-1367 EA 2" Diameter, 304 Stainless Steel Hex Nut.....	127.23	0.96
05 05 23 00-1368 316 Stainless Steel Hex Nuts <small>(05 05 23 00-1284)</small>		
05 05 23 00-1369 EA 1/4" Diameter, 316 Stainless Steel Hex Nut.....	1.05	0.32
05 05 23 00-1370 EA 5/16" Diameter, 316 Stainless Steel Hex Nut.....	1.22	0.32
05 05 23 00-1371 EA 3/8" Diameter, 316 Stainless Steel Hex Nut.....	1.48	0.32
05 05 23 00-1372 EA 7/16" Diameter, 316 Stainless Steel Hex Nut.....	2.53	0.32
05 05 23 00-1373 EA 1/2" Diameter, 316 Stainless Steel Hex Nut.....	2.72	0.32
05 05 23 00-1374 EA 9/16" Diameter, 316 Stainless Steel Hex Nut.....	3.78	0.32
05 05 23 00-1375 EA 5/8" Diameter, 316 Stainless Steel Hex Nut.....	4.29	0.32
05 05 23 00-1376 EA 3/4" Diameter, 316 Stainless Steel Hex Nut.....	6.06	0.63
05 05 23 00-1377 EA 7/8" Diameter, 316 Stainless Steel Hex Nut.....	8.52	0.63
05 05 23 00-1378 EA 1" Diameter, 316 Stainless Steel Hex Nut.....	13.23	0.63
05 05 23 00-1379 EA 1-1/4" Diameter, 316 Stainless Steel Hex Nut.....	40.76	0.63
05 05 23 00-1380 EA 1-1/2" Diameter, 316 Stainless Steel Hex Nut.....	66.11	0.96
05 05 23 00-1381 EA 1-3/4" Diameter, 316 Stainless Steel Hex Nut.....	111.83	0.96
05 05 23 00-1382 EA 2" Diameter, 316 Stainless Steel Hex Nut.....	208.25	0.96
05 05 23 00-1383 Flat Washers <small>(05 05 23 00-1283)</small>		
05 05 23 00-1384 Zinc Plated Steel, Low Carbon Flat Washers <small>(05 05 23 00-1383)</small>		
05 05 23 00-1385 EA 1/4" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	0.05	
05 05 23 00-1386 EA 5/16" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	0.09	
05 05 23 00-1387 EA 3/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	0.16	
05 05 23 00-1388 EA 7/16" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	0.24	
05 05 23 00-1389 EA 1/2" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	0.34	
05 05 23 00-1390 EA 9/16" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	0.39	
05 05 23 00-1391 EA 5/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	0.66	
05 05 23 00-1392 EA 3/4" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	0.95	
05 05 23 00-1393 EA 7/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	1.13	
05 05 23 00-1394 EA 1" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	1.39	
05 05 23 00-1395 EA 1-1/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	1.57	
05 05 23 00-1396 EA 1-1/4" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	1.88	
05 05 23 00-1397 EA 1-3/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	2.95	
05 05 23 00-1398 EA 1-1/2" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	3.02	
05 05 23 00-1399 EA 1-3/4" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	4.47	
05 05 23 00-1400 EA 2" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	5.56	
05 05 23 00-1401 Zinc Plated Steel, Hardened Flat Washers <small>(05 05 23 00-1383)</small>		

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

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

05 05 23 00-1402	EA	1/4" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	0.20	
05 05 23 00-1403	EA	5/16" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	0.28	
05 05 23 00-1404	EA	3/8" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	0.32	
05 05 23 00-1405	EA	7/16" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	0.44	
05 05 23 00-1406	EA	1/2" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	0.59	
05 05 23 00-1407	EA	9/16" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	0.95	
05 05 23 00-1408	EA	5/8" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	1.36	
05 05 23 00-1409	EA	3/4" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	1.92	
05 05 23 00-1410	EA	7/8" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	3.21	
05 05 23 00-1411	EA	1" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	3.56	
05 05 23 00-1412	EA	1-1/8" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	5.17	
05 05 23 00-1413	EA	1-1/4" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	5.65	
05 05 23 00-1414	EA	1-3/8" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	7.45	
05 05 23 00-1415	EA	1-1/2" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	8.52	
05 05 23 00-1416	EA	1-3/4" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	11.45	
05 05 23 00-1417	EA	2" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer.....	13.74	

05 05 23 00-1418 Hot Dipped Galvanized Steel Flat Washers (05 05 23 00-1383)

05 05 23 00-1419	EA	1/4" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	0.13	
05 05 23 00-1420	EA	5/16" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	0.19	
05 05 23 00-1421	EA	3/8" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	0.21	
05 05 23 00-1422	EA	7/16" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	0.40	
05 05 23 00-1423	EA	1/2" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	0.51	
05 05 23 00-1424	EA	9/16" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	0.84	
05 05 23 00-1425	EA	5/8" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	0.94	
05 05 23 00-1426	EA	3/4" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	1.42	
05 05 23 00-1427	EA	7/8" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	2.00	
05 05 23 00-1428	EA	1" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	2.20	
05 05 23 00-1429	EA	1-1/8" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	3.36	
05 05 23 00-1430	EA	1-1/4" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	3.74	
05 05 23 00-1431	EA	1-3/8" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	5.34	
05 05 23 00-1432	EA	1-1/2" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	5.79	
05 05 23 00-1433	EA	1-3/4" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer.....	8.40	

05 05 23 00-1434 304/18-8 Stainless Steel Flat Washers (05 05 23 00-1383)

05 05 23 00-1435	EA	1/4" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	0.19	
05 05 23 00-1436	EA	5/16" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	0.26	
05 05 23 00-1437	EA	3/8" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	0.36	
05 05 23 00-1438	EA	7/16" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	0.67	
05 05 23 00-1439	EA	1/2" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	1.23	
05 05 23 00-1440	EA	9/16" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	1.54	
05 05 23 00-1441	EA	5/8" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	2.25	
05 05 23 00-1442	EA	3/4" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	2.29	
05 05 23 00-1443	EA	7/8" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	4.83	
05 05 23 00-1444	EA	1" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	6.12	
05 05 23 00-1445	EA	1-1/8" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	7.13	
05 05 23 00-1446	EA	1-1/4" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	7.68	
05 05 23 00-1447	EA	1-3/8" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	8.11	
05 05 23 00-1448	EA	1-1/2" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	9.89	
05 05 23 00-1449	EA	1-3/4" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	12.29	
05 05 23 00-1450	EA	2" Inside Diameter, 304/18-8 Stainless Steel Flat Washer.....	24.15	

05 05 23 00-1451 316 Stainless Steel Flat Washers (05 05 23 00-1383)

05 05 23 00-1452	EA	1/4" Inside Diameter, 316 Stainless Steel Flat Washer.....	0.38	
05 05 23 00-1453	EA	5/16" Inside Diameter, 316 Stainless Steel Flat Washer.....	0.41	
05 05 23 00-1454	EA	3/8" Inside Diameter, 316 Stainless Steel Flat Washer.....	0.73	
05 05 23 00-1455	EA	7/16" Inside Diameter, 316 Stainless Steel Flat Washer.....	0.86	
05 05 23 00-1456	EA	1/2" Inside Diameter, 316 Stainless Steel Flat Washer.....	1.60	
05 05 23 00-1457	EA	9/16" Inside Diameter, 316 Stainless Steel Flat Washer.....	2.87	
05 05 23 00-1458	EA	5/8" Inside Diameter, 316 Stainless Steel Flat Washer.....	3.38	
05 05 23 00-1459	EA	3/4" Inside Diameter, 316 Stainless Steel Flat Washer.....	4.26	
05 05 23 00-1460	EA	7/8" Inside Diameter, 316 Stainless Steel Flat Washer.....	6.60	
05 05 23 00-1461	EA	1" Inside Diameter, 316 Stainless Steel Flat Washer.....	7.37	
05 05 23 00-1462	EA	1-1/8" Inside Diameter, 316 Stainless Steel Flat Washer.....	8.40	
05 05 23 00-1463	EA	1-1/4" Inside Diameter, 316 Stainless Steel Flat Washer.....	10.34	
05 05 23 00-1464	EA	1-3/8" Inside Diameter, 316 Stainless Steel Flat Washer.....	10.94	
05 05 23 00-1465	EA	1-1/2" Inside Diameter, 316 Stainless Steel Flat Washer.....	11.18	
05 05 23 00-1466	EA	1-3/4" Inside Diameter, 316 Stainless Steel Flat Washer.....	16.39	

05 05 23 00-1467 Lock Washers (05 05 23 00-1283)**05 05 23 00-1468 Zinc Plated Steel, Low Carbon Lock Washers (05 05 23 00-1467)**

05 05 23 00-1469	EA	1/4" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer.....	0.02	
05 05 23 00-1470	EA	5/16" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer.....	0.04	
05 05 23 00-1471	EA	3/8" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer.....	0.06	
05 05 23 00-1472	EA	7/16" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer.....	0.10	
05 05 23 00-1473	EA	1/2" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer.....	0.13	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1474 EA 9/16" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	0.22	
05 05 23 00-1475 EA 5/8" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	0.25	
05 05 23 00-1476 EA 3/4" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	0.38	
05 05 23 00-1477 EA 7/8" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	0.63	
05 05 23 00-1478 EA 1" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	1.14	
05 05 23 00-1479 EA 1-1/8" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	1.66	
05 05 23 00-1480 EA 1-1/4" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	2.55	
05 05 23 00-1481 EA 1-3/8" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	4.03	
05 05 23 00-1482 EA 1-1/2" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	4.75	
05 05 23 00-1483 EA 1-3/4" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	8.47	
05 05 23 00-1484 EA 2" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	9.54	
05 05 23 00-1485 Hot Dipped Galvanized Steel Lock Washers <small>(05 05 23 00-1467)</small>		
05 05 23 00-1486 EA 1/4" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	0.10	
05 05 23 00-1487 EA 5/16" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	0.12	
05 05 23 00-1488 EA 3/8" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	0.16	
05 05 23 00-1489 EA 7/16" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	0.18	
05 05 23 00-1490 EA 1/2" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	0.28	
05 05 23 00-1491 EA 9/16" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	0.37	
05 05 23 00-1492 EA 5/8" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	0.44	
05 05 23 00-1493 EA 3/4" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	0.73	
05 05 23 00-1494 EA 7/8" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	1.05	
05 05 23 00-1495 EA 1" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	1.66	
05 05 23 00-1496 EA 1-1/8" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	3.01	
05 05 23 00-1497 EA 1-1/4" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	3.59	
05 05 23 00-1498 EA 1-3/8" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	5.17	
05 05 23 00-1499 EA 1-1/2" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	5.92	
05 05 23 00-1500 EA 1-3/4" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	8.01	
05 05 23 00-1501 EA 2" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	10.91	
05 05 23 00-1502 304/18-8 Stainless Steel Lock Washers <small>(05 05 23 00-1467)</small>		
05 05 23 00-1503 EA 1/4" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	0.16	
05 05 23 00-1504 EA 5/16" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	0.22	
05 05 23 00-1505 EA 3/8" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	0.32	
05 05 23 00-1506 EA 7/16" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	0.59	
05 05 23 00-1507 EA 1/2" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	0.65	
05 05 23 00-1508 EA 9/16" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	1.58	
05 05 23 00-1509 EA 5/8" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	1.86	
05 05 23 00-1510 EA 3/4" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	2.17	
05 05 23 00-1511 EA 7/8" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	3.93	
05 05 23 00-1512 EA 1" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	5.55	
05 05 23 00-1513 EA 1-1/8" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	9.69	
05 05 23 00-1514 EA 1-1/4" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	12.88	
05 05 23 00-1515 EA 1-3/8" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	16.39	
05 05 23 00-1516 EA 1-1/2" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	19.66	
05 05 23 00-1517 316 Stainless Steel Lock Washers <small>(05 05 23 00-1467)</small>		
05 05 23 00-1518 EA 1/4" Inside Diameter, 316 Stainless Steel Lock Washer	0.20	
05 05 23 00-1519 EA 5/16" Inside Diameter, 316 Stainless Steel Lock Washer	0.43	
05 05 23 00-1520 EA 3/8" Inside Diameter, 316 Stainless Steel Lock Washer	0.50	
05 05 23 00-1521 EA 7/16" Inside Diameter, 316 Stainless Steel Lock Washer	0.85	
05 05 23 00-1522 EA 1/2" Inside Diameter, 316 Stainless Steel Lock Washer	0.94	
05 05 23 00-1523 EA 9/16" Inside Diameter, 316 Stainless Steel Lock Washer	1.69	
05 05 23 00-1524 EA 5/8" Inside Diameter, 316 Stainless Steel Lock Washer	1.85	
05 05 23 00-1525 EA 3/4" Inside Diameter, 316 Stainless Steel Lock Washer	3.20	
05 05 23 00-1526 EA 7/8" Inside Diameter, 316 Stainless Steel Lock Washer	5.28	
05 05 23 00-1527 EA 1" Inside Diameter, 316 Stainless Steel Lock Washer	7.19	
05 05 23 00-1528 EA 1-1/8" Inside Diameter, 316 Stainless Steel Lock Washer	10.04	
05 05 23 00-1529 EA 1-1/4" Inside Diameter, 316 Stainless Steel Lock Washer	15.44	
05 05 23 00-1530 EA 1-3/8" Inside Diameter, 316 Stainless Steel Lock Washer	27.65	
05 05 23 00-1531 EA 1-1/2" Inside Diameter, 316 Stainless Steel Lock Washer	30.70	
05 05 23 00-1532 Load Indicating Washers <small>(05 05 23 00-1283)</small>		
05 05 23 00-1533 A325, Direct Tension Indicator, Load Indicating Washers (ASTM F959) <small>(05 05 23 00-1532)</small>		
05 05 23 00-1534 Plain Finish, A325, Direct Tension Indicator, Load Indicating Washers (ASTM F959) <small>(05 05 23 00-1533)</small>		
05 05 23 00-1535 EA 1/2", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)	2.76	
05 05 23 00-1536 EA 5/8", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)	3.13	
05 05 23 00-1537 EA 3/4", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)	3.37	
05 05 23 00-1538 EA 7/8", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)	3.83	
05 05 23 00-1539 EA 1", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)	4.62	
05 05 23 00-1540 EA 1-1/8", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)	7.69	
05 05 23 00-1541 EA 1-1/4", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)	9.94	
05 05 23 00-1542 EA 1-3/8", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959)	12.68	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1543 EA 1-1/2", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	13.95	
05 05 23 00-1544 Galvanized, A325, Direct Tension Indicator, Load Indicating Washers (ASTM F959) (05 05 23 00-1533)		
05 05 23 00-1545 EA 1/2", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	3.50	
05 05 23 00-1546 EA 5/8", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	3.89	
05 05 23 00-1547 EA 3/4", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	3.79	
05 05 23 00-1548 EA 7/8", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	4.62	
05 05 23 00-1549 EA 1", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	5.48	
05 05 23 00-1550 EA 1-1/8", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	8.26	
05 05 23 00-1551 EA 1-1/4", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	10.39	
05 05 23 00-1552 EA 1-3/8", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	14.79	
05 05 23 00-1553 EA 1-1/2", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	16.27	
05 05 23 00-1554 Beveled Washers (05 05 23 00-1283)		
05 05 23 00-1555 Plain Finish, Square Beveled Structural Washers (ASTM F436) (05 05 23 00-1554)		
05 05 23 00-1556 EA 1/2", Plain Finish, Square Beveled Structural Washer (ASTM F436).....	4.56	
05 05 23 00-1557 EA 5/8", Plain Finish, Square Beveled Structural Washer (ASTM F436).....	4.66	
05 05 23 00-1558 EA 3/4", Plain Finish, Square Beveled Structural Washer (ASTM F436).....	4.76	
05 05 23 00-1559 EA 7/8", Plain Finish, Square Beveled Structural Washer (ASTM F436).....	5.79	
05 05 23 00-1560 EA 1", Plain Finish, Square Beveled Structural Washer (ASTM F436).....	6.09	
05 05 23 00-1561 Galvanized, Square Beveled Structural Washers (ASTM F436) (05 05 23 00-1554)		
05 05 23 00-1562 EA 1/2", Galvanized, Square Beveled Structural Washer (ASTM F436).....	6.56	
05 05 23 00-1563 EA 5/8", Galvanized, Square Beveled Structural Washer (ASTM F436).....	6.85	
05 05 23 00-1564 EA 3/4", Galvanized, Square Beveled Structural Washer (ASTM F436).....	6.85	
05 05 23 00-1565 EA 7/8", Galvanized, Square Beveled Structural Washer (ASTM F436).....	7.25	
05 05 23 00-1566 EA 1", Galvanized, Square Beveled Structural Washer (ASTM F436).....	7.71	
05 05 23 00-1567 Drilling In Existing Steel Plates (05 05 23)		
05 05 23 00-1568 EA Up To 1/2" Diameter Drill Through Up To 1/4" Steel Plate.....	21.18	
For Aluminum, Deduct	-2.12	
For Stainless Steel, Add	2.65	
For >5 To 10, Deduct	-2.12	
For >10 To 25, Deduct	-5.30	
For >25 To 50, Deduct	-7.41	
For >50, Deduct	-10.59	
05 05 23 00-1569 EA >1/2" To 7/8" Diameter Drill Through Up To 1/4" Steel Plate.....	24.92	
For Aluminum, Deduct	-2.49	
For Stainless Steel, Add	3.12	
For >5 To 10, Deduct	-2.49	
For >10 To 25, Deduct	-6.23	
For >25 To 50, Deduct	-8.72	
For >50, Deduct	-12.46	
05 05 23 00-1570 EA >7/8" To 1-1/2" Diameter Drill Through Up To 1/4" Steel Plate.....	29.90	
For Aluminum, Deduct	-2.99	
For Stainless Steel, Add	3.74	
For >5 To 10, Deduct	-2.99	
For >10 To 25, Deduct	-7.48	
For >25 To 50, Deduct	-10.47	
For >50, Deduct	-14.95	
05 05 23 00-1571 EA >1-1/2" To 4" Diameter Drill Through Up To 1/4" Steel Plate.....	34.89	
For Aluminum, Deduct	-3.49	
For Stainless Steel, Add	4.36	
For >5 To 10, Deduct	-3.49	
For >10 To 25, Deduct	-8.72	
For >25 To 50, Deduct	-12.21	
For >50, Deduct	-17.45	
05 05 23 00-1572 EA >4" To 10" Diameter Drill Through Up To 1/4" Steel Plate.....	46.72	
For Aluminum, Deduct	-4.67	
For Stainless Steel, Add	5.84	
For >5 To 10, Deduct	-4.67	
For >10 To 25, Deduct	-11.68	
For >25 To 50, Deduct	-16.35	
For >50, Deduct	-23.36	
05 05 23 00-1573 EA Up To 1/2" Diameter Drill Through >1/4" To 1/2" Steel Plate.....	24.92	
For Aluminum, Deduct	-2.49	
For Stainless Steel, Add	3.12	
For >5 To 10, Deduct	-2.49	
For >10 To 25, Deduct	-6.23	
For >25 To 50, Deduct	-8.72	
For >50, Deduct	-12.46	
05 05 23 00-1574 EA >1/2" To 7/8" Diameter Drill Through >1/4" To 1/2" Steel Plate.....	31.15	
For Aluminum, Deduct	-3.12	
For Stainless Steel, Add	3.89	
For >5 To 10, Deduct	-3.12	
For >10 To 25, Deduct	-7.79	
For >25 To 50, Deduct	-10.90	
For >50, Deduct	-15.58	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1575 EA >7/8" To 1-1/2" Diameter Drill Through >1/4" To 1/2" Steel Plate.....	37.38	
For Aluminum, Deduct	-3.74	
For Stainless Steel, Add	4.67	
For >5 To 10, Deduct	-3.74	
For >10 To 25, Deduct	-9.35	
For >25 To 50, Deduct	-13.08	
For >50, Deduct	-18.69	
05 05 23 00-1576 EA >1-1/2" To 4" Diameter Drill Through >1/4" To 1/2" Steel Plate.....	46.72	
For Aluminum, Deduct	-4.67	
For Stainless Steel, Add	5.84	
For >5 To 10, Deduct	-4.67	
For >10 To 25, Deduct	-11.68	
For >25 To 50, Deduct	-16.35	
For >50, Deduct	-23.36	
05 05 23 00-1577 EA Up To 1/2" Diameter Drill Through >1/2" To 1" Steel Plate.....	31.15	
For Aluminum, Deduct	-3.12	
For Stainless Steel, Add	3.89	
For >5 To 10, Deduct	-3.12	
For >10 To 25, Deduct	-7.79	
For >25 To 50, Deduct	-10.90	
For >50, Deduct	-15.58	
05 05 23 00-1578 EA >1/2" To 7/8" Diameter Drill Through >1/2" To 1" Steel Plate.....	41.12	
For Aluminum, Deduct	-4.11	
For Stainless Steel, Add	5.14	
For >5 To 10, Deduct	-4.11	
For >10 To 25, Deduct	-10.28	
For >25 To 50, Deduct	-14.39	
For >50, Deduct	-20.56	
05 05 23 00-1579 EA >7/8" To 1-1/2" Diameter Drill Through >1/2" To 1" Steel Plate.....	49.83	
For Aluminum, Deduct	-4.98	
For Stainless Steel, Add	6.23	
For >5 To 10, Deduct	-4.98	
For >10 To 25, Deduct	-12.46	
For >25 To 50, Deduct	-17.44	
For >50, Deduct	-24.92	

05 05 23 00-1580 Welded Stud Anchors (05 05 23)

05 05 23 00-1581 EA 1-1/8" Long x 1/4" Diameter, Welded Stud Concrete Anchors.....	4.55
05 05 23 00-1582 EA 2-11/16" Long x 1/4" Diameter, Welded Stud Concrete Anchors.....	4.65
05 05 23 00-1583 EA 3-1/8" Long x 1/4" Diameter, Welded Stud Concrete Anchors.....	4.69
05 05 23 00-1584 EA 4-1/8" Long x 1/4" Diameter, Welded Stud Concrete Anchors.....	4.73
05 05 23 00-1585 EA 1-3/8" Long x 3/8" Diameter, Welded Stud Concrete Anchors.....	4.45
05 05 23 00-1586 EA 1-5/8" Long x 3/8" Diameter, Welded Stud Concrete Anchors.....	4.70
05 05 23 00-1587 EA 2-1/8" Long x 3/8" Diameter, Welded Stud Concrete Anchors.....	4.95
05 05 23 00-1588 EA 2-5/8" Long x 3/8" Diameter, Welded Stud Concrete Anchors.....	5.08
05 05 23 00-1589 EA 3-1/8" Long x 3/8" Diameter, Welded Stud Concrete Anchors.....	5.22
05 05 23 00-1590 EA 4-1/8" Long x 3/8" Diameter, Welded Stud Concrete Anchors.....	5.74
05 05 23 00-1591 EA 5-1/8" Long x 3/8" Diameter, Welded Stud Concrete Anchors.....	6.16
05 05 23 00-1592 EA 6-1/8" Long x 3/8" Diameter, Welded Stud Concrete Anchors.....	6.50
05 05 23 00-1593 EA 1-1/2" Long x 1/2" Diameter, Welded Stud Concrete Anchors.....	5.48
05 05 23 00-1594 EA 1-5/8" Long x 1/2" Diameter, Welded Stud Concrete Anchors.....	5.51
05 05 23 00-1595 EA 2-1/8" Long x 1/2" Diameter, Welded Stud Concrete Anchors.....	5.90
05 05 23 00-1596 EA 2-5/8" Long x 1/2" Diameter, Welded Stud Concrete Anchors.....	6.27
05 05 23 00-1597 EA 3-1/8" Long x 1/2" Diameter, Welded Stud Concrete Anchors.....	6.72
05 05 23 00-1598 EA 4-1/8" Long x 1/2" Diameter, Welded Stud Concrete Anchors.....	7.43
05 05 23 00-1599 EA 5-5/16" Long x 1/2" Diameter, Welded Stud Concrete Anchors.....	7.88
05 05 23 00-1600 EA 6-1/8" Long x 1/2" Diameter, Welded Stud Concrete Anchors.....	9.13
05 05 23 00-1601 EA 8-1/8" Long x 1/2" Diameter, Welded Stud Concrete Anchors.....	11.48
05 05 23 00-1602 EA 2-11/16" Long x 5/8" Diameter, Welded Stud Concrete Anchors.....	7.88
05 05 23 00-1603 EA 3-3/16" Long x 5/8" Diameter, Welded Stud Concrete Anchors.....	8.47
05 05 23 00-1604 EA 3-11/16" Long x 5/8" Diameter, Welded Stud Concrete Anchors.....	8.95
05 05 23 00-1605 EA 4-3/16" Long x 5/8" Diameter, Welded Stud Concrete Anchors.....	9.43
05 05 23 00-1606 EA 4-11/16" Long x 5/8" Diameter, Welded Stud Concrete Anchors.....	9.83
05 05 23 00-1607 EA 5-3/16" Long x 5/8" Diameter, Welded Stud Concrete Anchors.....	10.20
05 05 23 00-1608 EA 6-3/16" Long x 5/8" Diameter, Welded Stud Concrete Anchors.....	10.68
05 05 23 00-1609 EA 6-9/16" Long x 5/8" Diameter, Welded Stud Concrete Anchors.....	12.69
05 05 23 00-1610 EA 8-3/16" Long x 5/8" Diameter, Welded Stud Concrete Anchors.....	15.47

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

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

05 05 23 00-1613 EA 3/4" Diameter x 3-3/16" Long, Welded Shear Stud Connector.....	10.13
05 05 23 00-1614 EA 3/4" Diameter x 3-3/8" Long, Welded Shear Stud Connector.....	10.55
05 05 23 00-1615 EA 3/4" Diameter x 3-7/8" Long, Welded Shear Stud Connector.....	10.67
05 05 23 00-1616 EA 3/4" Diameter x 4-3/16" Long, Welded Shear Stud Connector.....	10.72
05 05 23 00-1617 EA 3/4" Diameter x 4-3/8" Long, Welded Shear Stud Connector.....	11.21
05 05 23 00-1618 EA 3/4" Diameter x 4-11/16" Long, Welded Shear Stud Connector.....	12.08
05 05 23 00-1619 EA 3/4" Diameter x 4-7/8" Long, Welded Shear Stud Connector.....	20.61
05 05 23 00-1620 EA 3/4" Diameter x 5-3/16" Long, Welded Shear Stud Connector.....	13.10
05 05 23 00-1621 EA 3/4" Diameter x 5-3/8" Long, Welded Shear Stud Connector.....	14.66
05 05 23 00-1622 EA 3/4" Diameter x 6-3/16" Long, Welded Shear Stud Connector.....	19.01

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1623 EA 3/4" Diameter x 7-3/16" Long, Welded Shear Stud Connector	19.49	
05 05 23 00-1624 EA 3/4" Diameter x 8-3/16" Long, Welded Shear Stud Connector	21.19	
05 05 23 00-1625 EA 3/4" Diameter x 10-3/16" Long, Welded Shear Stud Connector	28.33	
05 05 23 00-1626 7/8" Diameter Welded Shear Stud Connector (05 05 23 00-1611)		
05 05 23 00-1627 EA 7/8" Diameter x 3-3/16" Long, Welded Shear Stud Connector	12.25	
05 05 23 00-1628 EA 7/8" Diameter x 3-11/16" Long, Welded Shear Stud Connector	12.93	
05 05 23 00-1629 EA 7/8" Diameter x 4-3/16" Long, Welded Shear Stud Connector	13.61	
05 05 23 00-1630 EA 7/8" Diameter x 5-3/16" Long, Welded Shear Stud Connector	15.57	
05 05 23 00-1631 EA 7/8" Diameter x 6-3/16" Long, Welded Shear Stud Connector	20.06	
05 05 23 00-1632 EA 7/8" Diameter x 7-3/16" Long, Welded Shear Stud Connector	22.12	
05 05 23 00-1633 EA 7/8" Diameter x 8-3/16" Long, Welded Shear Stud Connector	24.16	
05 05 23 00-1634 EA 7/8" Diameter x 10-3/16" Long, Welded Shear Stud Connector	29.88	
05 05 23 00-1635 1" Diameter Welded Shear Stud Connector (05 05 23 00-1611)		
05 05 23 00-1636 EA 1" Diameter x 3-1/4" Long, Welded Shear Stud Connector	16.70	
05 05 23 00-1637 EA 1" Diameter x 4-1/4" Long, Welded Shear Stud Connector	18.80	
05 05 23 00-1638 EA 1" Diameter x 5-1/4" Long, Welded Shear Stud Connector	21.88	
05 05 23 00-1639 EA 1" Diameter x 6-1/4" Long, Welded Shear Stud Connector	27.79	
05 05 23 00-1640 EA 1" Diameter x 7-1/4" Long, Welded Shear Stud Connector	31.02	
05 05 23 00-1641 EA 1" Diameter x 8-1/4" Long, Welded Shear Stud Connector	34.25	

05 10 Structural Metal Framing (05)**05 12 Structural Steel Framing** (05 10)**05 12 23 Structural Steel for Buildings** (05 12)

See CSI section 05 05 21 00-0007 for moment connection welding, 05 12 23 00-0120 for field fabrication of additional structural metal connections.

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

Note: Prices by Ton (or LB) are based on ASTM A992/A36 steel with bolted standard beam connections and shop primed with red primer paint. Stock cross-sections only. Includes shop fabrication into sub-assemblies and delivery to site, all connecting bolts, connecting welds, and crane for erection (or demolition). Excludes moment connection welding. See CSI section 05 05 21 00-0007 for moment connection welding, 05 12 23 00-0120 for field fabrication of additional structural metal connections.

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

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

05 12 23 00-0003 TON Up To 30 LB/LF Beams, Girders And Columns	11,253.16	1,327.49
<i>For ASTM A242 Type 2 High Strength Steel, Add</i>	680.55	
<i>For Hot Dip Galvanizing, Add</i>	2,381.92	
<i>For >10 To 25 Tons, Deduct</i>	-723.08	
<i>For >25 To 50 Tons, Deduct</i>	-1,488.70	
<i>For >50 Tons, Deduct</i>	-2,126.72	
05 12 23 00-0004 TON >30-65 LB/LF Beams, Girders And Columns	7,897.10	858.13
<i>For ASTM A242 Type 2 High Strength Steel, Add</i>	558.53	
<i>For Hot Dip Galvanizing, Add</i>	1,954.87	
<i>For >10 To 25 Tons, Deduct</i>	-593.44	
<i>For >25 To 50 Tons, Deduct</i>	-1,221.79	
<i>For >50 Tons, Deduct</i>	-1,745.42	
05 12 23 00-0005 TON >65-100 LB/LF Beams, Girders And Columns	6,713.14	482.74
<i>For ASTM A242 Type 2 High Strength Steel, Add</i>	495.86	
<i>For Hot Dip Galvanizing, Add</i>	1,735.50	
<i>For >10 To 25 Tons, Deduct</i>	-526.85	
<i>For >25 To 50 Tons, Deduct</i>	-1,084.69	
<i>For >50 Tons, Deduct</i>	-1,549.55	
05 12 23 00-0006 TON >100-300 LB/LF Beams, Girders And Columns	4,511.83	256.95
<i>For ASTM A242 Type 2 High Strength Steel, Add</i>	338.98	
<i>For Hot Dip Galvanizing, Add</i>	1,186.42	
<i>For >10 To 25 Tons, Deduct</i>	-360.16	
<i>For >25 To 50 Tons, Deduct</i>	-741.51	
<i>For >50 Tons, Deduct</i>	-1,059.30	

05 12 23 00-0007 Trusses, Built-Up (05 12 23 00-0001)

05 12 23 00-0008 TON Built-Up Trusses, Rolled Structural Steel Members	8,379.92	902.80
<i>For ASTM A242 Type 2 High Strength Steel, Add</i>	593.39	
<i>For Hot Dip Galvanizing, Add</i>	2,076.88	
<i>For >10 To 25 Tons, Deduct</i>	-630.48	
<i>For >25 To 50 Tons, Deduct</i>	-1,298.05	
<i>For >50 Tons, Deduct</i>	-1,854.36	

05 12 23 00-0009 Shapes (05 12 23 00-0001)**05 12 23 00-0010 Rolled Shape Steel Angles** (05 12 23 00-0009)



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

05

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0011 TON Up To 10 LB/LF Rolled Shape Steel Angles <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	16,398.12 982.81 3,439.83 -1,044.24 -2,149.90 -3,071.28	2,467.80
05 12 23 00-0012 TON >10 To 20 LB/LF Rolled Shape Steel Angles <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	14,498.28 940.16 3,290.56 -998.92 -2,056.60 -2,938.00	1,448.24
05 12 23 00-0013 TON >20 To 58 LB/LF Rolled Shape Steel Angles <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	11,253.33 827.04 2,894.65 -878.73 -1,809.16 -2,584.51	858.13
05 12 23 00-0014 Rolled C, MC Steel Channels <small>(05 12 23 00-0009)</small>		
05 12 23 00-0015 TON Up To 10 LB/LF Rolled C, MC Steel Channels <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	17,758.24 967.97 3,387.91 -1,028.47 -2,117.44 -3,024.92	3,379.22
05 12 23 00-0016 TON >10 To 20 Rolled C, MC Steel Channels <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	14,336.02 927.18 3,245.12 -985.13 -2,028.20 -2,897.43	2,574.65
05 12 23 00-0017 TON >20 To 58 LB/LF Rolled C, MC Steel Channels <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	11,067.90 812.21 2,842.73 -862.97 -1,776.71 -2,538.15	858.13
05 12 23 00-0018 Double L Shape Steel Angles <small>(05 12 23 00-0009)</small>		
05 12 23 00-0019 TON Up To 20 LB/LF Double L Shape Steel Angles <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	15,249.04 945.72 3,310.03 -1,004.83 -2,068.77 -2,955.38	1,958.02
05 12 23 00-0020 TON >20 To 50 LB/LF Double L Shape Steel Angles <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	12,041.43 890.09 3,115.32 -945.72 -1,947.07 -2,781.54	858.13
05 12 23 00-0021 TON >50 To 80 LB/LF Double L Shape Steel Angles <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	9,091.33 686.11 2,401.39 -728.99 -1,500.87 -2,144.10	482.74
05 12 23 00-0022 TON >80 To 115 LB/LF Double L Shape Steel Angles <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	5,837.27 445.05 1,557.66 -472.86 -973.54 -1,390.77	257.33
05 12 23 00-0023 Structural WT, MT, ST Tee Shapes <small>(05 12 23 00-0001)</small>		
05 12 23 00-0024 TON Up To 30 LB/LF Structural WT, MT, ST Tee Shapes <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	13,872.43 890.09 3,115.32 -945.72 -1,947.07 -2,781.54	1,448.24
05 12 23 00-0025 TON >30 To 65 LB/LF Structural WT, MT, ST Tee Shapes <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	9,422.29 680.55 2,381.92 -723.08 -1,488.70 -2,126.72	858.13

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0026 TON >65 To 100 LB/LF Structural WT, MT, ST Tee Shapes	7,468.77	482.74
For ASTM A242 Type 2 High Strength Steel, Add	556.31	
For Hot Dip Galvanizing, Add	1,947.08	
For >10 To 25 Tons, Deduct	-591.08	
For >25 To 50 Tons, Deduct	-1,216.92	
For >50 Tons, Deduct	-1,738.46	
05 12 23 00-0027 TON >100 To 365 LB/LF Structural WT, MT, ST Tee Shapes	5,513.19	256.95
For ASTM A242 Type 2 High Strength Steel, Add	419.08	
For Hot Dip Galvanizing, Add	1,466.80	
For >10 To 25 Tons, Deduct	-445.28	
For >25 To 50 Tons, Deduct	-916.75	
For >50 Tons, Deduct	-1,309.64	
05 12 23 00-0028 Combination Section Shapes (05 12 23 00-0001)		
05 12 23 00-0029 Combination Section, W Shapes And Angles (05 12 23 00-0028)		
05 12 23 00-0030 TON Up To 30 LB/LF Combination Section - W Shapes And Angles	13,153.87	1,448.24
For ASTM A242 Type 2 High Strength Steel, Add	832.61	
For Hot Dip Galvanizing, Add	2,914.12	
For >10 To 25 Tons, Deduct	-884.64	
For >25 To 50 Tons, Deduct	-1,821.33	
For >50 Tons, Deduct	-2,601.90	
05 12 23 00-0031 TON >30-65 LB/LF Combination Section - W Shapes And Angles	9,491.85	858.13
For ASTM A242 Type 2 High Strength Steel, Add	686.11	
For Hot Dip Galvanizing, Add	2,401.40	
For >10 To 25 Tons, Deduct	-729.00	
For >25 To 50 Tons, Deduct	-1,500.87	
For >50 Tons, Deduct	-2,144.11	
05 12 23 00-0032 TON >65-100 LB/LF Combination Section - W Shapes And Angles	6,889.28	482.74
For ASTM A242 Type 2 High Strength Steel, Add	509.95	
For Hot Dip Galvanizing, Add	1,784.82	
For >10 To 25 Tons, Deduct	-541.82	
For >25 To 50 Tons, Deduct	-1,115.51	
For >50 Tons, Deduct	-1,593.59	
05 12 23 00-0033 TON >100-300 LB/LF Combination Section - W Shapes And Angles	5,976.35	256.95
For ASTM A242 Type 2 High Strength Steel, Add	456.17	
For Hot Dip Galvanizing, Add	1,596.60	
For >10 To 25 Tons, Deduct	-484.68	
For >25 To 50 Tons, Deduct	-997.88	
For >50 Tons, Deduct	-1,425.54	
05 12 23 00-0034 TON >300-500 LB/LF Combination Section - W Shapes And Angles	5,167.28	128.99
For ASTM A242 Type 2 High Strength Steel, Add	402.40	
For Hot Dip Galvanizing, Add	1,408.39	
For >10 To 25 Tons, Deduct	-427.55	
For >25 To 50 Tons, Deduct	-880.24	
For >50 Tons, Deduct	-1,257.49	
05 12 23 00-0035 Combination Section, S Shapes And Angles (05 12 23 00-0028)		
05 12 23 00-0036 TON >30-65 LB/LF Combination Section - S Shapes And Angles	9,120.96	858.13
For ASTM A242 Type 2 High Strength Steel, Add	656.44	
For Hot Dip Galvanizing, Add	2,297.55	
For >10 To 25 Tons, Deduct	-697.47	
For >25 To 50 Tons, Deduct	-1,435.97	
For >50 Tons, Deduct	-2,051.38	
05 12 23 00-0037 TON >65-100 LB/LF Combination Section - S Shapes And Angles	6,912.46	482.74
For ASTM A242 Type 2 High Strength Steel, Add	511.80	
For Hot Dip Galvanizing, Add	1,791.31	
For >10 To 25 Tons, Deduct	-543.79	
For >25 To 50 Tons, Deduct	-1,119.57	
For >50 Tons, Deduct	-1,599.38	
05 12 23 00-0038 Combination Section, Channels And Angles (05 12 23 00-0028)		
05 12 23 00-0039 TON Up To 30 LB/LF Combination Section - Channels And Angles	13,872.43	1,448.24
For ASTM A242 Type 2 High Strength Steel, Add	890.09	
For Hot Dip Galvanizing, Add	3,115.32	
For >10 To 25 Tons, Deduct	-945.72	
For >25 To 50 Tons, Deduct	-1,947.07	
For >50 Tons, Deduct	-2,781.54	
05 12 23 00-0040 TON >30-65 LB/LF Combination Section - Channels And Angles	9,955.42	858.13
For ASTM A242 Type 2 High Strength Steel, Add	723.20	
For Hot Dip Galvanizing, Add	2,531.20	
For >10 To 25 Tons, Deduct	-768.40	
For >25 To 50 Tons, Deduct	-1,582.00	
For >50 Tons, Deduct	-2,260.00	
05 12 23 00-0041 TON >65-100 LB/LF Combination Section - Channels And Angles	7,074.72	482.74
For ASTM A242 Type 2 High Strength Steel, Add	524.78	
For Hot Dip Galvanizing, Add	1,836.74	
For >10 To 25 Tons, Deduct	-557.58	
For >25 To 50 Tons, Deduct	-1,147.96	
For >50 Tons, Deduct	-1,639.95	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0042 Standard Weight Pipe <small>(05 12 23 00-0001)</small>		
05 12 23 00-0043 TON 1/2" To 5" Diameter Standard Weight Pipe.....	8,055.88	772.39
For ASTM A242 Type 2 High Strength Steel, Add	578.56	
For Hot Dip Galvanizing, Add	2,024.96	
For >10 To 25 Tons, Deduct	-614.72	
For >25 To 50 Tons, Deduct	-1,265.60	
For >50 Tons, Deduct	-1,808.00	
05 12 23 00-0044 TON >5" To 12" Diameter Standard Weight Pipe.....	8,586.37	965.49
For ASTM A242 Type 2 High Strength Steel, Add	604.52	
For Hot Dip Galvanizing, Add	2,115.82	
For >10 To 25 Tons, Deduct	-642.30	
For >25 To 50 Tons, Deduct	-1,322.39	
For >50 Tons, Deduct	-1,889.13	
05 12 23 00-0045 Temporary Steel Support For Structures <small>(05 12 23 00-0001)</small>		
Note: Includes removal after use.		
05 12 23 00-0046 TON Up To 30 LB/LF Temporary Steel Support For Structures.....	11,253.16	
Note: For all stock sections.		
05 12 23 00-0047 TON >30 LB/LF Temporary Steel Support For Structures	7,897.10	
Note: For all stock sections.		
05 12 23 00-0048 Structural Steel Shapes <small>(05 12 23)</small>		
Note: Prices by Ton (or LB) are based on ASTM A992/A36 steel with bolted standard beam connections and shop primed with red primer paint. Stock cross-sections only. Includes shop fabrication into sub-assemblies and delivery to site, all connecting bolts, connecting welds, and crane for erection (or demolition). Excludes moment connection welding. See CSI section 05 05 21 00-0007 for moment connection welding, 05 12 23 00-0120 for field fabrication of additional structural metal connections.		
05 12 23 00-0049 Steel Rods <small>(05 12 23 00-0048)</small>		
05 12 23 00-0050 TON 1/2" To 5" Diameter Extra Strong Steel, Solid.....	8,710.11	603.50
For ASTM A242 Type 2 High Strength Steel, Add	645.32	
For Hot Dip Galvanizing, Add	2,258.61	
For >10 To 25 Tons, Deduct	-685.65	
For >25 To 50 Tons, Deduct	-1,411.63	
For >50 Tons, Deduct	-2,016.61	
05 12 23 00-0051 TON >5" To 12" Diameter Extra Strong Steel, Solid	9,955.42	858.13
For ASTM A242 Type 2 High Strength Steel, Add	723.20	
For Hot Dip Galvanizing, Add	2,531.20	
For >10 To 25 Tons, Deduct	-768.40	
For >25 To 50 Tons, Deduct	-1,582.00	
For >50 Tons, Deduct	-2,260.00	
05 12 23 00-0052 Column Base Plates <small>(05 12 23 00-0048)</small>		
05 12 23 00-0053 LB Column Base Plates, Up To 150 LB / Each, A36 Miscellaneous Steel Items	4.32	0.79
For ASTM A242 Type 2 High Strength Steel, Add	0.28	
For Hot Dip Galvanizing, Add	0.97	
05 12 23 00-0054 LB Column Base Plates, >150 LB / Each, A36 Miscellaneous Steel Items	4.06	0.67
For ASTM A242 Type 2 High Strength Steel, Add	0.26	
For Hot Dip Galvanizing, Add	0.92	
05 12 23 00-0055 TON Column Base Plates, Up To 150 LB Each, A36 Miscellaneous Steel Items	7,922.33	705.04
For ASTM A242 Type 2 High Strength Steel, Add	573.62	
For Hot Dip Galvanizing, Add	2,007.68	
For >10 To 25 Tons, Deduct	-609.47	
For >25 To 50 Tons, Deduct	-1,254.80	
For >50 Tons, Deduct	-1,792.57	
05 12 23 00-0056 TON Column Base Plates, >150 LB Each, A36 Miscellaneous Steel Items.....	5,637.40	423.03
For ASTM A242 Type 2 High Strength Steel, Add	414.89	
For Hot Dip Galvanizing, Add	1,452.13	
For >10 To 25 Tons, Deduct	-440.82	
For >25 To 50 Tons, Deduct	-907.58	
For >50 Tons, Deduct	-1,296.54	
05 12 23 00-0057 Double Extra Strong Pipes <small>(05 12 23 00-0048)</small>		
05 12 23 00-0058 TON 2" To 5" Diameter Double Extra Strong Pipe	10,402.41	1,103.36
For ASTM A242 Type 2 High Strength Steel, Add	738.03	
For Hot Dip Galvanizing, Add	2,583.12	
For >10 To 25 Tons, Deduct	-784.16	
For >25 To 50 Tons, Deduct	-1,614.45	
For >50 Tons, Deduct	-2,306.36	
05 12 23 00-0059 TON >5" To 8" Diameter Double Extra Strong Pipe.....	9,859.19	594.10
For ASTM A242 Type 2 High Strength Steel, Add	738.03	
For Hot Dip Galvanizing, Add	2,583.12	
For >10 To 25 Tons, Deduct	-784.16	
For >25 To 50 Tons, Deduct	-1,614.45	
For >50 Tons, Deduct	-2,306.36	
05 12 23 00-0060 Structural Pipes <small>(05 12 23 00-0048)</small>		

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0061 TON 3" To 5" Outside Diameter Structural Pipe, Extra Heavy A36 Miscellaneous Steel Items.....	7,274.60	509.77
For ASTM A242 Type 2 High Strength Steel, Add	519.22	
For Hot Dip Galvanizing, Add	1,817.27	
For >10 To 25 Tons, Deduct	-551.67	
For >25 To 50 Tons, Deduct	-1,135.79	
For >50 Tons, Deduct	-1,622.56	
05 12 23 00-0062 TON >5" To 12" Outside Diameter Structural Pipe, Extra Heavy A36 Miscellaneous Steel Items	7,787.30	587.92
For ASTM A242 Type 2 High Strength Steel, Add	519.22	
For Hot Dip Galvanizing, Add	1,817.27	
For >10 To 25 Tons, Deduct	-551.67	
For >25 To 50 Tons, Deduct	-1,135.79	
For >50 Tons, Deduct	-1,622.56	
05 12 23 00-0063 Structural Tubing (05 12 23 00-0048)		
05 12 23 00-0064 Rectangle Structural Tubing (05 12 23 00-0063)		
05 12 23 00-0065 TON 3" x 2" Weight Range 5-7 LB/LF Structural Tubing - Rectangle.....	12,138.99	514.93
For ASTM A242 Type 2 High Strength Steel, Add	927.18	
For Hot Dip Galvanizing, Add	3,245.12	
For >10 To 25 Tons, Deduct	-985.13	
For >25 To 50 Tons, Deduct	-2,028.20	
For >50 Tons, Deduct	-2,897.43	
05 12 23 00-0066 TON 4" x 3", 2" Weight Range 6-13 LB/LF Structural Tubing - Rectangle	12,223.49	594.10
For ASTM A242 Type 2 High Strength Steel, Add	927.18	
For Hot Dip Galvanizing, Add	3,245.12	
For >10 To 25 Tons, Deduct	-985.13	
For >25 To 50 Tons, Deduct	-2,028.20	
For >50 Tons, Deduct	-2,897.43	
05 12 23 00-0067 TON 5" x 4", 3", 2" Weight Range 8-20 LB/LF Structural Tubing - Rectangle	10,653.74	643.66
For ASTM A242 Type 2 High Strength Steel, Add	797.37	
For Hot Dip Galvanizing, Add	2,790.81	
For >10 To 25 Tons, Deduct	-847.21	
For >25 To 50 Tons, Deduct	-1,744.25	
For >50 Tons, Deduct	-2,491.79	
05 12 23 00-0068 TON 6" x 4", 3", 2" Weight Range 9-29 LB/LF Structural Tubing - Rectangle	10,095.68	772.39
For ASTM A242 Type 2 High Strength Steel, Add	741.74	
For Hot Dip Galvanizing, Add	2,596.10	
For >10 To 25 Tons, Deduct	-788.10	
For >25 To 50 Tons, Deduct	-1,622.56	
For >50 Tons, Deduct	-2,317.95	
05 12 23 00-0069 TON 7" x 5", 4", 3" Weight Range 12-35 LB/LF Structural Tubing - Rectangle	9,916.17	858.13
For ASTM A242 Type 2 High Strength Steel, Add	720.06	
For Hot Dip Galvanizing, Add	2,520.21	
For >10 To 25 Tons, Deduct	-765.06	
For >25 To 50 Tons, Deduct	-1,575.13	
For >50 Tons, Deduct	-2,250.19	
05 12 23 00-0070 TON 8" x 6", 4", 3", 2" Weight Range 11-42 LB/LF Structural Tubing - Rectangle	10,055.31	1,187.55
For ASTM A242 Type 2 High Strength Steel, Add	703.09	
For Hot Dip Galvanizing, Add	2,460.80	
For >10 To 25 Tons, Deduct	-747.03	
For >25 To 50 Tons, Deduct	-1,538.00	
For >50 Tons, Deduct	-2,197.14	
05 12 23 00-0071 TON 10" x 6", 4", 2" Weight Range 15-50 LB/LF Structural Tubing - Rectangle	10,436.41	1,569.89
For ASTM A242 Type 2 High Strength Steel, Add	700.95	
For Hot Dip Galvanizing, Add	2,453.32	
For >10 To 25 Tons, Deduct	-744.76	
For >25 To 50 Tons, Deduct	-1,533.32	
For >50 Tons, Deduct	-2,190.46	
05 12 23 00-0072 TON 12" x 6", 4", 2" Weight Range 17-76 LB/LF Structural Tubing - Rectangle	10,683.80	1,714.84
For ASTM A242 Type 2 High Strength Steel, Add	708.36	
For Hot Dip Galvanizing, Add	2,479.28	
For >10 To 25 Tons, Deduct	-752.64	
For >25 To 50 Tons, Deduct	-1,549.55	
For >50 Tons, Deduct	-2,213.64	
05 12 23 00-0073 TON 14" x 10", 6", 4" Weight Range 29-76 LB/LF Structural Tubing - Rectangle	10,914.27	1,930.99
For ASTM A242 Type 2 High Strength Steel, Add	708.36	
For Hot Dip Galvanizing, Add	2,479.28	
For >10 To 25 Tons, Deduct	-752.64	
For >25 To 50 Tons, Deduct	-1,549.55	
For >50 Tons, Deduct	-2,213.64	
05 12 23 00-0074 TON 16" x 12", 8", 4" Weight Range 40-90 LB/LF Structural Tubing - Rectangle	11,508.12	2,574.65
For ASTM A242 Type 2 High Strength Steel, Add	700.95	
For Hot Dip Galvanizing, Add	2,453.32	
For >10 To 25 Tons, Deduct	-744.76	
For >25 To 50 Tons, Deduct	-1,533.32	
For >50 Tons, Deduct	-2,190.46	
05 12 23 00-0075 TON 18" x 6", 4" Weight Range 48-76 LB/LF Structural Tubing - Rectangle	12,857.18	4,056.74
For ASTM A242 Type 2 High Strength Steel, Add	682.40	
For Hot Dip Galvanizing, Add	2,388.41	
For >10 To 25 Tons, Deduct	-725.05	
For >25 To 50 Tons, Deduct	-1,492.76	
For >50 Tons, Deduct	-2,132.51	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0076 TON 20" x 12", 8", 4" Weight Range 48-105 LB/LF Structural Tubing - Rectangle	14,463.10	5,923.36
For ASTM A242 Type 2 High Strength Steel, Add	651.60	
For Hot Dip Galvanizing, Add	2,280.59	
For >10 To 25 Tons, Deduct	-692.32	
For >25 To 50 Tons, Deduct	-1,425.37	
For >50 Tons, Deduct	-2,036.24	
05 12 23 00-0077 Square Structural Tubing <small>(05 12 23 00-0063)</small>		
05 12 23 00-0078 TON 2" x 2" Weight Range 4-6 LB/LF Structural Tubing - Square	12,104.66	482.74
For ASTM A242 Type 2 High Strength Steel, Add	927.18	
For Hot Dip Galvanizing, Add	3,245.12	
For >10 To 25 Tons, Deduct	-985.13	
For >25 To 50 Tons, Deduct	-2,028.20	
For >50 Tons, Deduct	-2,897.43	
05 12 23 00-0079 TON 2.5" x 2.5" Weight Range 5-8 LB/LF Structural Tubing - Square	12,138.99	514.93
For ASTM A242 Type 2 High Strength Steel, Add	927.18	
For Hot Dip Galvanizing, Add	3,245.12	
For >10 To 25 Tons, Deduct	-985.13	
For >25 To 50 Tons, Deduct	-2,028.20	
For >50 Tons, Deduct	-2,897.43	
05 12 23 00-0080 TON 3" x 3" Weight Range 6-11 LB/LF Structural Tubing - Square	10,885.54	643.66
For ASTM A242 Type 2 High Strength Steel, Add	815.92	
For Hot Dip Galvanizing, Add	2,855.71	
For >10 To 25 Tons, Deduct	-866.91	
For >25 To 50 Tons, Deduct	-1,784.82	
For >50 Tons, Deduct	-2,549.74	
05 12 23 00-0081 TON 3.5" x 3.5" Weight Range 8-13 LB/LF Structural Tubing - Square	10,791.06	772.39
For ASTM A242 Type 2 High Strength Steel, Add	797.37	
For Hot Dip Galvanizing, Add	2,790.81	
For >10 To 25 Tons, Deduct	-847.21	
For >25 To 50 Tons, Deduct	-1,744.25	
For >50 Tons, Deduct	-2,491.79	
05 12 23 00-0082 TON 4" x 4" Weight Range 10-22 LB/LF Structural Tubing - Square	8,632.72	965.49
For ASTM A242 Type 2 High Strength Steel, Add	608.23	
For Hot Dip Galvanizing, Add	2,128.80	
For >10 To 25 Tons, Deduct	-646.24	
For >25 To 50 Tons, Deduct	-1,330.50	
For >50 Tons, Deduct	-1,900.72	
05 12 23 00-0083 TON 5" x 5" Weight Range 12-30 LB/LF Structural Tubing - Square	8,779.84	1,103.36
For ASTM A242 Type 2 High Strength Steel, Add	608.23	
For Hot Dip Galvanizing, Add	2,128.80	
For >10 To 25 Tons, Deduct	-646.24	
For >25 To 50 Tons, Deduct	-1,330.50	
For >50 Tons, Deduct	-1,900.72	
05 12 23 00-0084 TON 6" x 6" Weight Range 15-35 LB/LF Structural Tubing - Square	9,250.64	1,544.79
For ASTM A242 Type 2 High Strength Steel, Add	608.23	
For Hot Dip Galvanizing, Add	2,128.80	
For >10 To 25 Tons, Deduct	-646.24	
For >25 To 50 Tons, Deduct	-1,330.50	
For >50 Tons, Deduct	-1,900.72	
05 12 23 00-0085 TON 7" x 7" Weight Range 17-42 LB/LF Structural Tubing - Square	9,801.65	1,930.99
For ASTM A242 Type 2 High Strength Steel, Add	619.36	
For Hot Dip Galvanizing, Add	2,167.74	
For >10 To 25 Tons, Deduct	-658.06	
For >25 To 50 Tons, Deduct	-1,354.84	
For >50 Tons, Deduct	-1,935.49	
05 12 23 00-0086 TON 8" x 8" Weight Range 20-60 LB/LF Structural Tubing - Square	11,739.92	2,574.65
For ASTM A242 Type 2 High Strength Steel, Add	719.49	
For Hot Dip Galvanizing, Add	2,518.22	
For >10 To 25 Tons, Deduct	-764.46	
For >25 To 50 Tons, Deduct	-1,573.89	
For >50 Tons, Deduct	-2,248.41	
05 12 23 00-0087 TON 10" x 10" Weight Range 33-77 LB/LF Structural Tubing - Square	13,113.06	3,861.97
For ASTM A242 Type 2 High Strength Steel, Add	719.49	
For Hot Dip Galvanizing, Add	2,518.22	
For >10 To 25 Tons, Deduct	-764.46	
For >25 To 50 Tons, Deduct	-1,573.89	
For >50 Tons, Deduct	-2,248.41	
05 12 23 00-0088 TON 12" x 12" Weight Range 40-80 LB/LF Structural Tubing - Square	12,576.95	4,532.79
For ASTM A242 Type 2 High Strength Steel, Add	619.36	
For Hot Dip Galvanizing, Add	2,167.74	
For >10 To 25 Tons, Deduct	-658.06	
For >25 To 50 Tons, Deduct	-1,354.84	
For >50 Tons, Deduct	-1,935.49	
05 12 23 00-0089 TON 14" x 14" Weight Range 57-90 LB/LF Structural Tubing - Square	15,126.35	5,923.36
For ASTM A242 Type 2 High Strength Steel, Add	704.66	
For Hot Dip Galvanizing, Add	2,466.30	
For >10 To 25 Tons, Deduct	-748.70	
For >25 To 50 Tons, Deduct	-1,541.44	
For >50 Tons, Deduct	-2,202.05	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0090 TON 16" x 16" Weight Range 65-105 LB/LF Structural Tubing - Square <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	17,232.50 719.49 2,518.22 -764.46 -1,573.89 -2,248.41	7,723.93
05 12 23 00-0091 Structural Shapes (05 12 23 00-0048)		
05 12 23 00-0092 TON Structural Shapes, Steel Angle A36 Structural Steel, Purlins And Girts (Up To 20 LB/LF) <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >20 To 50 LB/LF, Deduct</i> <i>For >50 To 75 LB/LF, Deduct</i> <i>For >75 To 100 LB/LF, Deduct</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	8,735.69 340.74 1,192.58 -1,097.39 -1,758.00 -2,418.61 -362.03 -745.37 -1,064.81	2,820.17
05 12 23 00-0093 TON Structural Shapes, Steel Plate A36 Structural Steel Note: Up to 21.5 LB per SF <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For >21.5 To 50 LB/LF, Deduct</i> <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	8,917.68 593.41 2,076.93 -966.77 -630.50 -1,298.08 -1,854.40	1,128.07
05 12 23 00-0094 LB Structural Shapes, Primed Pipe Supports (Up To 20 LB/LF).....	5.21	0.25
05 12 23 00-0095 LB Structural Shapes, Galvanized Pipe Supports.....	6.37	0.25
05 12 23 00-0096 Built-Up Trusses (05 12 23 00-0048)		
05 12 23 00-0097 TON Up To 50 LF Span Average Weight 100 LB/LF Trusses, Built-up <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	9,845.98 -801.89 -1,650.96 -2,358.51	386.20
05 12 23 00-0098 TON >50-100 LF Span Average Weight 120 LB/LF Trusses, Built-up <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	9,755.61 -809.77 -1,667.18 -2,381.69	214.47
05 12 23 00-0099 TON >100-200 LF Span Average Weight 150 LB/LF Trusses, Built-up <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	8,697.56 -728.99 -1,500.87 -2,144.10	113.54
05 12 23 00-0100 TON >200 LF Span Average Weight 180 LB/LF Trusses, Built-up <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	8,459.04 -709.29 -1,460.31 -2,086.15	107.36
05 12 23 00-0101 Masonry Plates, Filler Plates, Sole Plates And Anchor Straps (05 12 23 00-0048) Note: Includes shop fabrication, welds, drilling and shop primer.		
05 12 23 00-0102 SF 1/4" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	32.16	8.12
05 12 23 00-0103 SF 3/8" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	48.24	12.15
05 12 23 00-0104 SF 1/2" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	64.32	16.20
05 12 23 00-0105 SF 5/8" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	80.41	20.24
05 12 23 00-0106 SF 3/4" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	96.49	24.17
05 12 23 00-0107 SF 7/8" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	112.57	28.34
05 12 23 00-0108 SF 1" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	128.65	32.39
05 12 23 00-0109 SF 1-1/8" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	144.73	36.44
05 12 23 00-0110 SF 1-1/4" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	160.81	40.48
05 12 23 00-0111 SF 1-3/8" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	176.90	44.53
05 12 23 00-0112 SF 1-1/2" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	192.98	48.58
05 12 23 00-0113 SF 1-5/8" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	209.07	52.63
05 12 23 00-0114 SF 1-3/4" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	225.15	56.67
05 12 23 00-0115 SF 1-7/8" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	241.24	60.72
05 12 23 00-0116 SF 2" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps	257.32	64.77
05 12 23 00-0117 Accessories For Steel (05 12 23)		
05 12 23 00-0118 Field Painting For Touch-Up Of Shop Prime Coat (05 12 23 00-0117)		
05 12 23 00-0119 SF Touch Up Paint - Type 1 Red Oxide Field Painting Prime Coat.....	1.23	
05 12 23 00-0120 Connection And Stiffener Plates (05 12 23 00-0117) Note: For field fabrication of additional structural metal connections.		
05 12 23 00-0121 TON 1/8" Plate Weight 6.16 LB/SF Connection And Stiffener Plates..... <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	21,413.84 -1,820.18 -3,747.42 -5,353.46	
05 12 23 00-0122 TON 3/16" Plate Weight 8.71 LB/SF Connection And Stiffener Plates..... <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	18,270.20 -1,552.97 -3,197.29 -4,567.55	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0123 TON 1/4" Plate Weight 11.26 LB/SF Connection And Stiffener Plates..... <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	14,128.72 -1,200.94 -2,472.53 -3,532.18	
05 12 23 00-0124 TON 5/16" Plate Weight 13.81 LB/SF Connection And Stiffener Plates..... <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	14,128.72 -1,200.94 -2,472.53 -3,532.18	
05 12 23 00-0125 TON 3/8" Plate Weight 16.37 LB/SF Connection And Stiffener Plates..... <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	14,128.72 -1,200.94 -2,472.53 -3,532.18	
05 12 23 00-0126 TON 1/2" Plate Weight 21.47 LB/SF Connection And Stiffener Plates..... <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	14,128.72 -1,200.94 -2,472.53 -3,532.18	
05 12 23 00-0127 TON 9/16" Plate Weight 24.02 LB/SF Connection And Stiffener Plates..... <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	14,128.72 -1,200.94 -2,472.53 -3,532.18	
05 12 23 00-0128 TON 5/8" Plate Weight 26.58 LB/SF Connection And Stiffener Plates..... <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	14,128.72 -1,200.94 -2,472.53 -3,532.18	
05 12 23 00-0129 TON 3/4" Plate Weight 31.68 LB/SF Connection And Stiffener Plates..... <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	13,245.67 -1,125.88 -2,317.99 -3,311.42	
05 12 23 00-0130 TON 7/8" Plate Weight 36.78 LB/SF Connection And Stiffener Plates..... <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	13,245.67 -1,125.88 -2,317.99 -3,311.42	
05 12 23 00-0131 TON 1" Plate Weight 41.89 LB/SF Connection And Stiffener Plates..... <i>For >10 To 25 Tons, Deduct</i> <i>For >25 To 50 Tons, Deduct</i> <i>For >50 Tons, Deduct</i>	13,245.67 -1,125.88 -2,317.99 -3,311.42	
05 12 23 00-0132 Field Applied Cold Galvanizing <small>(05 12 23 00-0117)</small>		
05 12 23 00-0133 SF Brush Applied Cold Galvanizing	1.96	
05 12 23 00-0134 Metal Grinding <small>(05 12 23 00-0117)</small>		
Note: For use to prepare existing metal for welding by removing of rust or scale and smoothing surface after torch cutting.		
05 12 23 00-0135 SI Metal Grinding Up To 1/32" Thickness To Be Removed..... Note: Includes rust or scale removal on metal and smoothing surface.	1.32	
05 12 23 00-0136 Structural Steel For Buildings And Structures <small>(05 12 23)</small>		
Note: Prices by Ton (or LB) are based on ASTM A992/A36 steel with bolted standard beam connections and shop primed with red primer paint. Stock cross-sections only. Includes shop fabrication into sub-assemblies and delivery to site, all connecting bolts, connecting welds, and crane for erection (or demolition). Excludes moment connection welding.		
05 12 23 00-0137 First Tier A992/A36 Structural Steel Columns, W Shapes <small>(05 12 23 00-0136)</small>		
Note: With base plate. Includes material delivery and erection.		
05 12 23 00-0138 LF W14 x 730 A992/A36 Structural Column	1,684.66	78.22
<i>For Hot Dip Galvanizing, Add</i>		
<i>For High Strength Low Alloy A572-50 Steel, Add</i>		
<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>		
05 12 23 00-0139 LF W14 x 665 A992/A36 Structural Column	1,536.41	72.91
<i>For Hot Dip Galvanizing, Add</i>		
<i>For High Strength Low Alloy A572-50 Steel, Add</i>		
<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>		
05 12 23 00-0140 LF W14 x 605 A992/A36 Structural Column	1,399.44	67.86
<i>For Hot Dip Galvanizing, Add</i>		
<i>For High Strength Low Alloy A572-50 Steel, Add</i>		
<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>		
05 12 23 00-0141 LF W14 x 550 A992/A36 Structural Column	1,273.74	63.13
<i>For Hot Dip Galvanizing, Add</i>		
<i>For High Strength Low Alloy A572-50 Steel, Add</i>		
<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>		
05 12 23 00-0142 LF W14 x 500 A992/A36 Structural Column	1,168.19	66.94
<i>For Hot Dip Galvanizing, Add</i>		
<i>For High Strength Low Alloy A572-50 Steel, Add</i>		
<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>		
05 12 23 00-0143 LF W14 x 426 A992/A36 Structural Column	996.72	58.45
<i>For Hot Dip Galvanizing, Add</i>		
<i>For High Strength Low Alloy A572-50 Steel, Add</i>		
<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>		
05 12 23 00-0144 LF W14 x 342 A992/A36 Structural Column	805.95	50.59
<i>For Hot Dip Galvanizing, Add</i>		
<i>For High Strength Low Alloy A572-50 Steel, Add</i>		
<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>		

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0145 LF W14 x 311 A992/A36 Structural Column	725.88	47.25
For Hot Dip Galvanizing, Add	187.44	
For High Strength Low Alloy A572-50 Steel, Add	65.33	
For High Strength Low Alloy A588 Grade B Steel, Add	145.18	
05 12 23 00-0146 LF W14 x 283 A992/A36 Structural Column	658.86	44.54
For Hot Dip Galvanizing, Add	169.67	
For High Strength Low Alloy A572-50 Steel, Add	59.30	
For High Strength Low Alloy A588 Grade B Steel, Add	131.77	
05 12 23 00-0147 LF W14 x 257 A992/A36 Structural Column	579.09	42.23
For Hot Dip Galvanizing, Add	148.21	
For High Strength Low Alloy A572-50 Steel, Add	52.12	
For High Strength Low Alloy A588 Grade B Steel, Add	115.82	
05 12 23 00-0148 LF W14 x 233 A992/A36 Structural Column	532.93	39.26
For Hot Dip Galvanizing, Add	136.28	
For High Strength Low Alloy A572-50 Steel, Add	47.96	
For High Strength Low Alloy A588 Grade B Steel, Add	106.59	
05 12 23 00-0149 LF W14 x 211 A992/A36 Structural Column	474.01	36.56
For Hot Dip Galvanizing, Add	120.72	
For High Strength Low Alloy A572-50 Steel, Add	42.66	
For High Strength Low Alloy A588 Grade B Steel, Add	94.80	
05 12 23 00-0150 LF W14 x 193 A992/A36 Structural Column	428.72	34.75
For Hot Dip Galvanizing, Add	108.68	
For High Strength Low Alloy A572-50 Steel, Add	38.58	
For High Strength Low Alloy A588 Grade B Steel, Add	85.74	
05 12 23 00-0151 LF W14 x 176 A992/A36 Structural Column	386.40	33.22
For Hot Dip Galvanizing, Add	97.40	
For High Strength Low Alloy A572-50 Steel, Add	34.78	
For High Strength Low Alloy A588 Grade B Steel, Add	77.28	
05 12 23 00-0152 LF W14 x 159 A992/A36 Structural Column	349.35	32.05
For Hot Dip Galvanizing, Add	87.48	
For High Strength Low Alloy A572-50 Steel, Add	31.44	
For High Strength Low Alloy A588 Grade B Steel, Add	69.87	
05 12 23 00-0153 LF W14 x 145 A992/A36 Structural Column	337.61	31.03
For Hot Dip Galvanizing, Add	84.51	
For High Strength Low Alloy A572-50 Steel, Add	30.38	
For High Strength Low Alloy A588 Grade B Steel, Add	67.52	
05 12 23 00-0154 LF W14 x 132 A992/A36 Structural Column	288.70	29.61
For Hot Dip Galvanizing, Add	71.36	
For High Strength Low Alloy A572-50 Steel, Add	25.98	
For High Strength Low Alloy A588 Grade B Steel, Add	57.74	
05 12 23 00-0155 LF W14 x 120 A992/A36 Structural Column	270.69	28.84
For Hot Dip Galvanizing, Add	66.58	
For High Strength Low Alloy A572-50 Steel, Add	24.36	
For High Strength Low Alloy A588 Grade B Steel, Add	54.14	
05 12 23 00-0156 LF W14 x 109 A992/A36 Structural Column	242.36	27.68
For Hot Dip Galvanizing, Add	59.07	
For High Strength Low Alloy A572-50 Steel, Add	21.81	
For High Strength Low Alloy A588 Grade B Steel, Add	48.47	
05 12 23 00-0157 LF W14 x 99 A992/A36 Structural Column	221.13	26.91
For Hot Dip Galvanizing, Add	53.43	
For High Strength Low Alloy A572-50 Steel, Add	19.90	
For High Strength Low Alloy A588 Grade B Steel, Add	44.23	
05 12 23 00-0158 LF W14 x 90 A992/A36 Structural Column	205.42	26.26
For Hot Dip Galvanizing, Add	49.25	
For High Strength Low Alloy A572-50 Steel, Add	18.49	
For High Strength Low Alloy A588 Grade B Steel, Add	41.08	
05 12 23 00-0159 LF W14 x 82 A992/A36 Structural Column	189.23	25.49
For Hot Dip Galvanizing, Add	44.97	
For High Strength Low Alloy A572-50 Steel, Add	17.03	
For High Strength Low Alloy A588 Grade B Steel, Add	37.85	
05 12 23 00-0160 LF W14 x 74 A992/A36 Structural Column	170.85	24.84
For Hot Dip Galvanizing, Add	40.09	
For High Strength Low Alloy A572-50 Steel, Add	15.38	
For High Strength Low Alloy A588 Grade B Steel, Add	34.17	
05 12 23 00-0161 LF W14 x 68 A992/A36 Structural Column	159.58	24.46
For Hot Dip Galvanizing, Add	37.07	
For High Strength Low Alloy A572-50 Steel, Add	14.36	
For High Strength Low Alloy A588 Grade B Steel, Add	31.92	
05 12 23 00-0162 LF W14 x 61 A992/A36 Structural Column	145.50	23.82
For Hot Dip Galvanizing, Add	33.34	
For High Strength Low Alloy A572-50 Steel, Add	13.10	
For High Strength Low Alloy A588 Grade B Steel, Add	29.10	
05 12 23 00-0163 LF W14 x 53 A992/A36 Structural Column	132.52	23.17
For Hot Dip Galvanizing, Add	29.91	
For High Strength Low Alloy A572-50 Steel, Add	11.93	
For High Strength Low Alloy A588 Grade B Steel, Add	26.50	
05 12 23 00-0164 LF W14 x 48 A992/A36 Structural Column	124.14	22.78
For Hot Dip Galvanizing, Add	27.70	
For High Strength Low Alloy A572-50 Steel, Add	11.17	
For High Strength Low Alloy A588 Grade B Steel, Add	24.83	
05 12 23 00-0165 LF W14 x 43 A992/A36 Structural Column	112.02	22.40
For Hot Dip Galvanizing, Add	24.48	
For High Strength Low Alloy A572-50 Steel, Add	10.08	
For High Strength Low Alloy A588 Grade B Steel, Add	22.40	



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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0166	LF		W12 x 336 A992/A36 Structural Column	768.22	34.84
			<i>For Hot Dip Galvanizing, Add</i>	202.88	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	69.14	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	153.64	
05 12 23 00-0167	LF		W12 x 305 A992/A36 Structural Column	700.04	34.14
			<i>For Hot Dip Galvanizing, Add</i>	184.16	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	63.00	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	140.01	
05 12 23 00-0168	LF		W12 x 279 A992/A36 Structural Column	643.03	33.73
			<i>For Hot Dip Galvanizing, Add</i>	168.46	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	57.87	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	128.61	
05 12 23 00-0169	LF		W12 x 252 A992/A36 Structural Column	583.38	32.89
			<i>For Hot Dip Galvanizing, Add</i>	152.16	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	52.50	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	116.68	
05 12 23 00-0170	LF		W12 x 230 A992/A36 Structural Column	535.01	32.41
			<i>For Hot Dip Galvanizing, Add</i>	138.87	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	48.15	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	107.00	
05 12 23 00-0171	LF		W12 x 210 A992/A36 Structural Column	490.99	31.96
			<i>For Hot Dip Galvanizing, Add</i>	126.80	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	44.19	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	98.20	
05 12 23 00-0172	LF		W12 x 190 A992/A36 Structural Column	451.40	35.53
			<i>For Hot Dip Galvanizing, Add</i>	114.72	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	40.63	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	90.28	
05 12 23 00-0173	LF		W12 x 170 A992/A36 Structural Column	407.89	34.50
			<i>For Hot Dip Galvanizing, Add</i>	103.01	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	36.71	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	81.58	
05 12 23 00-0174	LF		W12 x 152 A992/A36 Structural Column	367.68	32.05
			<i>For Hot Dip Galvanizing, Add</i>	92.56	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	33.09	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	73.54	
05 12 23 00-0175	LF		W12 x 136 A992/A36 Structural Column	349.54	31.15
			<i>For Hot Dip Galvanizing, Add</i>	87.78	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	31.46	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	69.91	
05 12 23 00-0176	LF		W12 x 120 A992/A36 Structural Column	264.57	28.58
			<i>For Hot Dip Galvanizing, Add</i>	64.92	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	23.81	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	52.91	
05 12 23 00-0177	LF		W12 x 106 A992/A36 Structural Column	243.81	27.68
			<i>For Hot Dip Galvanizing, Add</i>	59.48	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	21.94	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	48.76	
05 12 23 00-0178	LF		W12 x 96 A992/A36 Structural Column	218.11	26.78
			<i>For Hot Dip Galvanizing, Add</i>	52.63	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	19.63	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	43.62	
05 12 23 00-0179	LF		W12 x 87 A992/A36 Structural Column	201.18	25.88
			<i>For Hot Dip Galvanizing, Add</i>	48.15	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	18.11	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	40.24	
05 12 23 00-0180	LF		W12 x 79 A992/A36 Structural Column	176.50	25.11
			<i>For Hot Dip Galvanizing, Add</i>	41.55	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	15.89	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	35.30	
05 12 23 00-0181	LF		W12 x 72 A992/A36 Structural Column	161.52	24.46
			<i>For Hot Dip Galvanizing, Add</i>	37.57	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	14.54	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	32.30	
05 12 23 00-0182	LF		W12 x 65 A992/A36 Structural Column	147.63	23.94
			<i>For Hot Dip Galvanizing, Add</i>	33.89	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	13.29	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	29.53	
05 12 23 00-0183	LF		W12 x 58 A992/A36 Structural Column	142.83	23.68
			<i>For Hot Dip Galvanizing, Add</i>	32.63	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	12.85	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	28.57	
05 12 23 00-0184	LF		W12 x 53 A992/A36 Structural Column	132.52	23.17
			<i>For Hot Dip Galvanizing, Add</i>	29.91	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	11.93	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	26.50	
05 12 23 00-0185	LF		W12 x 50 A992/A36 Structural Column	128.40	23.04
			<i>For Hot Dip Galvanizing, Add</i>	28.81	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	11.56	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	25.68	
05 12 23 00-0186	LF		W12 x 45 A992/A36 Structural Column	116.63	22.53
			<i>For Hot Dip Galvanizing, Add</i>	25.69	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	10.50	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	23.33	

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

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0187	LF	W12 x 40 A992/A36 Structural Column	104.50	22.02
		<i>For Hot Dip Galvanizing, Add</i>	22.46	
		<i>For High Strength Low Alloy A572-50 Steel, Add</i>	9.41	
		<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	20.90	
05 12 23 00-0188	LF	W10 x 112 A992/A36 Structural Column	255.03	28.19
		<i>For Hot Dip Galvanizing, Add</i>	62.45	
		<i>For High Strength Low Alloy A572-50 Steel, Add</i>	22.95	
		<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	51.01	
05 12 23 00-0189	LF	W10 x 110 A992/A36 Structural Column	230.65	27.03
		<i>For Hot Dip Galvanizing, Add</i>	56.00	
		<i>For High Strength Low Alloy A572-50 Steel, Add</i>	20.76	
		<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	46.13	
05 12 23 00-0190	LF	W10 x 88 A992/A36 Structural Column	207.30	26.13
		<i>For Hot Dip Galvanizing, Add</i>	49.81	
		<i>For High Strength Low Alloy A572-50 Steel, Add</i>	18.66	
		<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	41.46	
05 12 23 00-0191	LF	W10 x 77 A992/A36 Structural Column	184.31	25.11
		<i>For Hot Dip Galvanizing, Add</i>	43.71	
		<i>For High Strength Low Alloy A572-50 Steel, Add</i>	16.59	
		<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	36.86	
05 12 23 00-0192	LF	W10 x 68 A992/A36 Structural Column	165.93	24.46
		<i>For Hot Dip Galvanizing, Add</i>	38.83	
		<i>For High Strength Low Alloy A572-50 Steel, Add</i>	14.93	
		<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	33.19	
05 12 23 00-0193	LF	W10 x 60 A992/A36 Structural Column	145.50	23.82
		<i>For Hot Dip Galvanizing, Add</i>	33.34	
		<i>For High Strength Low Alloy A572-50 Steel, Add</i>	13.10	
		<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	29.10	
05 12 23 00-0194	LF	W10 x 54 A992/A36 Structural Column	144.53	23.43
		<i>For Hot Dip Galvanizing, Add</i>	33.14	
		<i>For High Strength Low Alloy A572-50 Steel, Add</i>	13.01	
		<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	28.91	
05 12 23 00-0195	LF	W10 x 49 A992/A36 Structural Column	126.82	23.04
		<i>For Hot Dip Galvanizing, Add</i>	28.40	
		<i>For High Strength Low Alloy A572-50 Steel, Add</i>	11.41	
		<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	25.36	
05 12 23 00-0196	LF	W10 x 45 A992/A36 Structural Column	122.39	22.66
		<i>For Hot Dip Galvanizing, Add</i>	27.24	
		<i>For High Strength Low Alloy A572-50 Steel, Add</i>	11.02	
		<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	24.48	
05 12 23 00-0197	LF	W10 x 39 A992/A36 Structural Column	106.44	22.27
		<i>For Hot Dip Galvanizing, Add</i>	22.97	
		<i>For High Strength Low Alloy A572-50 Steel, Add</i>	9.58	
		<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	21.29	
05 12 23 00-0198	LF	W10 x 33 A992/A36 Structural Column	92.73	21.63
		<i>For Hot Dip Galvanizing, Add</i>	19.34	
		<i>For High Strength Low Alloy A572-50 Steel, Add</i>	8.35	
		<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	18.55	
05 12 23 00-0199	LF	W8 x 67 A992/A36 Structural Column	159.76	24.46
		<i>For Hot Dip Galvanizing, Add</i>	37.12	
		<i>For High Strength Low Alloy A572-50 Steel, Add</i>	14.38	
		<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	31.95	
05 12 23 00-0200	LF	W8 x 58 A992/A36 Structural Column	143.37	23.68
		<i>For Hot Dip Galvanizing, Add</i>	32.78	
		<i>For High Strength Low Alloy A572-50 Steel, Add</i>	12.90	
		<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	28.67	
05 12 23 00-0201	LF	W8 x 48 A992/A36 Structural Column	128.27	23.04
		<i>For Hot Dip Galvanizing, Add</i>	28.81	
		<i>For High Strength Low Alloy A572-50 Steel, Add</i>	11.54	
		<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	25.65	
05 12 23 00-0202	LF	W8 x 40 A992/A36 Structural Column	110.02	22.40
		<i>For Hot Dip Galvanizing, Add</i>	23.92	
		<i>For High Strength Low Alloy A572-50 Steel, Add</i>	9.90	
		<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	22.00	
05 12 23 00-0203	LF	W8 x 35 A992/A36 Structural Column	99.35	21.88
		<i>For Hot Dip Galvanizing, Add</i>	21.10	
		<i>For High Strength Low Alloy A572-50 Steel, Add</i>	8.94	
		<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	19.87	
05 12 23 00-0204	LF	W8 x 31 A992/A36 Structural Column	90.73	21.63
		<i>For Hot Dip Galvanizing, Add</i>	18.78	
		<i>For High Strength Low Alloy A572-50 Steel, Add</i>	8.17	
		<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	18.15	
05 12 23 00-0205	LF	W8 x 28 A992/A36 Structural Column	85.39	21.37
		<i>For Hot Dip Galvanizing, Add</i>	17.37	
		<i>For High Strength Low Alloy A572-50 Steel, Add</i>	7.69	
		<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	17.08	
05 12 23 00-0206	LF	W8 x 24 A992/A36 Structural Column	78.97	21.11
		<i>For Hot Dip Galvanizing, Add</i>	15.66	
		<i>For High Strength Low Alloy A572-50 Steel, Add</i>	7.11	
		<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	15.79	
05 12 23 00-0207	LF	W8 x 21 A992/A36 Structural Column	74.72	20.98
		<i>For Hot Dip Galvanizing, Add</i>	14.55	
		<i>For High Strength Low Alloy A572-50 Steel, Add</i>	6.72	
		<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	14.94	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0208 LF W8 x 18 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	66.66 12.39 6.00 13.33	20.59
05 12 23 00-0209 LF W6 x 25 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	82.96 16.77 7.47 16.59	21.11
05 12 23 00-0210 LF W6 x 20 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	70.05 13.30 6.30 14.01	20.73
05 12 23 00-0211 LF W6 x 15 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	59.97 10.68 5.40 11.99	20.08
05 12 23 00-0212 LF W6 x 12 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	56.16 9.62 5.05 11.23	20.08
05 12 23 00-0213 LF W6 x 9 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	51.31 8.31 4.62 10.26	19.96
05 12 23 00-0214 LF W5 x 19 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	68.96 12.99 6.21 13.79	20.73
05 12 23 00-0215 LF W5 x 16 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	63.44 11.53 5.71 12.69	20.59
05 12 23 00-0216 LF W4 x 13 A992/A36 Structural Column <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	59.38 10.48 5.34 11.88	20.34
05 12 23 00-0217 A992/A36 Structural Steel Beams And Girders, W Shapes <small>(05 12 23 00-0136)</small>		
Note: Includes material delivery and erection.		
05 12 23 00-0218 LF W36 x 300 A992/A36 Structural Beam Or Girder <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Steel, Add</i> <i>For Each Additional Top Copes >2, Add</i> <i>For Structural Tees, WT, MT Or ST, Deduct</i> <i>For Skewed Or Sloped Connections, Add</i>	606.66 142.99 54.60 121.33 5.15 -198.63 72.80	85.66
05 12 23 00-0219 LF W36 x 280 A992/A36 Structural Beam Or Girder <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Steel, Add</i> <i>For Each Additional Top Copes >2, Add</i> <i>For Structural Tees, WT, MT Or ST, Deduct</i> <i>For Skewed Or Sloped Connections, Add</i>	583.91 133.46 52.55 116.78 4.81 -188.92 70.07	96.55
05 12 23 00-0220 LF W36 x 260 A992/A36 Structural Beam Or Girder <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Steel, Add</i> <i>For Each Additional Top Copes >2, Add</i> <i>For Structural Tees, WT, MT Or ST, Deduct</i> <i>For Skewed Or Sloped Connections, Add</i>	552.73 125.16 49.75 110.55 4.51 -178.20 66.33	95.39
05 12 23 00-0221 LF W36 x 240 A992/A36 Structural Beam Or Girder <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Steel, Add</i> <i>For Each Additional Top Copes >2, Add</i> <i>For Structural Tees, WT, MT Or ST, Deduct</i> <i>For Skewed Or Sloped Connections, Add</i>	516.41 118.86 46.48 103.28 4.28 -167.53 61.97	82.56
05 12 23 00-0222 LF W36 x 230 A992/A36 Structural Beam Or Girder <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Steel, Add</i> <i>For Each Additional Top Copes >2, Add</i> <i>For Structural Tees, WT, MT Or ST, Deduct</i> <i>For Skewed Or Sloped Connections, Add</i>	499.80 113.91 44.98 99.96 4.10 -161.53 59.98	83.74
05 12 23 00-0223 LF W36 x 210 A992/A36 Structural Beam Or Girder <i>For Hot Dip Galvanizing, Add</i> <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Steel, Add</i> <i>For Each Additional Top Copes >2, Add</i> <i>For Structural Tees, WT, MT Or ST, Deduct</i> <i>For Skewed Or Sloped Connections, Add</i>	473.26 104.00 42.59 94.65 3.75 -150.87 56.79	92.30

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0224 LF W36 x 194 A992/A36 Structural Beam Or Girder	447.41	80.08
For Hot Dip Galvanizing, Add	100.45	
For High Strength Low Alloy A572-50 Steel, Add	40.27	
For High Strength Low Alloy A588 Steel, Add	89.48	
For Each Additional Top Copes >2, Add	3.62	
For Structural Tees, WT, MT Or ST, Deduct	-143.78	
For Skewed Or Sloped Connections, Add	53.69	
05 12 23 00-0225 LF W36 x 182 A992/A36 Structural Beam Or Girder	424.40	79.50
For Hot Dip Galvanizing, Add	94.24	
For High Strength Low Alloy A572-50 Steel, Add	38.20	
For High Strength Low Alloy A588 Steel, Add	84.88	
For Each Additional Top Copes >2, Add	3.40	
For Structural Tees, WT, MT Or ST, Deduct	-135.82	
For Skewed Or Sloped Connections, Add	50.93	
05 12 23 00-0226 LF W36 x 170 A992/A36 Structural Beam Or Girder	401.03	78.58
For Hot Dip Galvanizing, Add	88.03	
For High Strength Low Alloy A572-50 Steel, Add	36.09	
For High Strength Low Alloy A588 Steel, Add	80.21	
For Each Additional Top Copes >2, Add	3.17	
For Structural Tees, WT, MT Or ST, Deduct	-127.79	
For Skewed Or Sloped Connections, Add	48.12	
05 12 23 00-0227 LF W36 x 160 A992/A36 Structural Beam Or Girder	393.81	89.34
For Hot Dip Galvanizing, Add	82.85	
For High Strength Low Alloy A572-50 Steel, Add	35.44	
For High Strength Low Alloy A588 Steel, Add	78.76	
For Each Additional Top Copes >2, Add	2.99	
For Structural Tees, WT, MT Or ST, Deduct	-123.54	
For Skewed Or Sloped Connections, Add	47.26	
05 12 23 00-0228 LF W36 x 150 A992/A36 Structural Beam Or Girder	377.53	88.70
For Hot Dip Galvanizing, Add	78.50	
For High Strength Low Alloy A572-50 Steel, Add	33.98	
For High Strength Low Alloy A588 Steel, Add	75.51	
For Each Additional Top Copes >2, Add	2.83	
For Structural Tees, WT, MT Or ST, Deduct	-117.94	
For Skewed Or Sloped Connections, Add	45.30	
05 12 23 00-0229 LF W36 x 135 A992/A36 Structural Beam Or Girder	354.74	87.93
For Hot Dip Galvanizing, Add	72.44	
For High Strength Low Alloy A572-50 Steel, Add	31.93	
For High Strength Low Alloy A588 Steel, Add	70.95	
For Each Additional Top Copes >2, Add	2.61	
For Structural Tees, WT, MT Or ST, Deduct	-110.10	
For Skewed Or Sloped Connections, Add	42.57	
05 12 23 00-0230 LF W33 x 241 A992/A36 Structural Beam Or Girder	522.89	85.16
For Hot Dip Galvanizing, Add	119.90	
For High Strength Low Alloy A572-50 Steel, Add	47.06	
For High Strength Low Alloy A588 Steel, Add	104.58	
For Each Additional Top Copes >2, Add	4.32	
For Structural Tees, WT, MT Or ST, Deduct	-169.39	
For Skewed Or Sloped Connections, Add	62.75	
05 12 23 00-0231 LF W33 x 221 A992/A36 Structural Beam Or Girder	484.81	83.07
For Hot Dip Galvanizing, Add	109.95	
For High Strength Low Alloy A572-50 Steel, Add	43.63	
For High Strength Low Alloy A588 Steel, Add	96.96	
For Each Additional Top Copes >2, Add	3.96	
For Structural Tees, WT, MT Or ST, Deduct	-156.39	
For Skewed Or Sloped Connections, Add	58.18	
05 12 23 00-0232 LF W33 x 201 A992/A36 Structural Beam Or Girder	458.19	91.66
For Hot Dip Galvanizing, Add	100.00	
For High Strength Low Alloy A572-50 Steel, Add	41.24	
For High Strength Low Alloy A588 Steel, Add	91.64	
For Each Additional Top Copes >2, Add	3.60	
For Structural Tees, WT, MT Or ST, Deduct	-145.69	
For Skewed Or Sloped Connections, Add	54.98	
05 12 23 00-0233 LF W33 x 170 A992/A36 Structural Beam Or Girder	411.32	89.99
For Hot Dip Galvanizing, Add	87.53	
For High Strength Low Alloy A572-50 Steel, Add	37.02	
For High Strength Low Alloy A588 Steel, Add	82.26	
For Each Additional Top Copes >2, Add	3.15	
For Structural Tees, WT, MT Or ST, Deduct	-129.58	
For Skewed Or Sloped Connections, Add	49.36	
05 12 23 00-0234 LF W33 x 152 A992/A36 Structural Beam Or Girder	375.12	78.33
For Hot Dip Galvanizing, Add	80.91	
For High Strength Low Alloy A572-50 Steel, Add	33.76	
For High Strength Low Alloy A588 Steel, Add	75.02	
For Each Additional Top Copes >2, Add	2.92	
For Structural Tees, WT, MT Or ST, Deduct	-118.76	
For Skewed Or Sloped Connections, Add	45.01	
05 12 23 00-0235 LF W33 x 141 A992/A36 Structural Beam Or Girder	364.56	88.18
For Hot Dip Galvanizing, Add	75.05	
For High Strength Low Alloy A572-50 Steel, Add	32.81	
For High Strength Low Alloy A588 Steel, Add	72.91	
For Each Additional Top Copes >2, Add	2.70	
For Structural Tees, WT, MT Or ST, Deduct	-113.48	
For Skewed Or Sloped Connections, Add	43.75	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0236 LF W33 x 130 A992/A36 Structural Beam Or Girder	346.15	87.54
For Hot Dip Galvanizing, Add	70.15	
For High Strength Low Alloy A572-50 Steel, Add	31.15	
For High Strength Low Alloy A588 Steel, Add	69.23	
For Each Additional Top Copes >2, Add	2.53	
For Structural Tees, WT, MT Or ST, Deduct	-107.15	
For Skewed Or Sloped Connections, Add	41.54	
05 12 23 00-0237 LF W33 x 118 A992/A36 Structural Beam Or Girder	324.70	86.76
For Hot Dip Galvanizing, Add	64.42	
For High Strength Low Alloy A572-50 Steel, Add	29.22	
For High Strength Low Alloy A588 Steel, Add	64.94	
For Each Additional Top Copes >2, Add	2.32	
For Structural Tees, WT, MT Or ST, Deduct	-99.76	
For Skewed Or Sloped Connections, Add	38.96	
05 12 23 00-0238 LF W30 x 211 A992/A36 Structural Beam Or Girder	464.80	82.91
For Hot Dip Galvanizing, Add	104.44	
For High Strength Low Alloy A572-50 Steel, Add	41.83	
For High Strength Low Alloy A588 Steel, Add	92.96	
For Each Additional Top Copes >2, Add	3.76	
For Structural Tees, WT, MT Or ST, Deduct	-149.41	
For Skewed Or Sloped Connections, Add	55.78	
05 12 23 00-0239 LF W30 x 191 A992/A36 Structural Beam Or Girder	437.89	91.01
For Hot Dip Galvanizing, Add	94.54	
For High Strength Low Alloy A572-50 Steel, Add	39.41	
For High Strength Low Alloy A588 Steel, Add	87.58	
For Each Additional Top Copes >2, Add	3.41	
For Structural Tees, WT, MT Or ST, Deduct	-138.68	
For Skewed Or Sloped Connections, Add	52.55	
05 12 23 00-0240 LF W30 x 173 A992/A36 Structural Beam Or Girder	402.43	79.13
For Hot Dip Galvanizing, Add	88.25	
For High Strength Low Alloy A572-50 Steel, Add	36.22	
For High Strength Low Alloy A588 Steel, Add	80.49	
For Each Additional Top Copes >2, Add	3.18	
For Structural Tees, WT, MT Or ST, Deduct	-128.19	
For Skewed Or Sloped Connections, Add	48.29	
05 12 23 00-0241 LF W30 x 154 A992/A36 Structural Beam Or Girder	377.85	88.83
For Hot Dip Galvanizing, Add	78.56	
For High Strength Low Alloy A572-50 Steel, Add	34.01	
For High Strength Low Alloy A588 Steel, Add	75.57	
For Each Additional Top Copes >2, Add	2.83	
For Structural Tees, WT, MT Or ST, Deduct	-118.04	
For Skewed Or Sloped Connections, Add	45.34	
05 12 23 00-0242 LF W30 x 132 A992/A36 Structural Beam Or Girder	338.06	76.34
For Hot Dip Galvanizing, Add	71.21	
For High Strength Low Alloy A572-50 Steel, Add	30.43	
For High Strength Low Alloy A588 Steel, Add	67.61	
For Each Additional Top Copes >2, Add	2.57	
For Structural Tees, WT, MT Or ST, Deduct	-106.11	
For Skewed Or Sloped Connections, Add	40.57	
05 12 23 00-0243 LF W30 x 124 A992/A36 Structural Beam Or Girder	322.46	76.30
For Hot Dip Galvanizing, Add	66.90	
For High Strength Low Alloy A572-50 Steel, Add	29.02	
For High Strength Low Alloy A588 Steel, Add	64.49	
For Each Additional Top Copes >2, Add	2.41	
For Structural Tees, WT, MT Or ST, Deduct	-100.65	
For Skewed Or Sloped Connections, Add	38.70	
05 12 23 00-0244 LF W30 x 116 A992/A36 Structural Beam Or Girder	317.95	86.64
For Hot Dip Galvanizing, Add	62.58	
For High Strength Low Alloy A572-50 Steel, Add	28.62	
For High Strength Low Alloy A588 Steel, Add	63.59	
For Each Additional Top Copes >2, Add	2.26	
For Structural Tees, WT, MT Or ST, Deduct	-97.42	
For Skewed Or Sloped Connections, Add	38.15	
05 12 23 00-0245 LF W30 x 108 A992/A36 Structural Beam Or Girder	294.23	78.02
For Hot Dip Galvanizing, Add	58.57	
For High Strength Low Alloy A572-50 Steel, Add	26.48	
For High Strength Low Alloy A588 Steel, Add	58.85	
For Each Additional Top Copes >2, Add	2.11	
For Structural Tees, WT, MT Or ST, Deduct	-90.51	
For Skewed Or Sloped Connections, Add	35.31	
05 12 23 00-0246 LF W30 x 99 A992/A36 Structural Beam Or Girder	281.08	77.63
For Hot Dip Galvanizing, Add	55.06	
For High Strength Low Alloy A572-50 Steel, Add	25.30	
For High Strength Low Alloy A588 Steel, Add	56.22	
For Each Additional Top Copes >2, Add	1.98	
For Structural Tees, WT, MT Or ST, Deduct	-85.98	
For Skewed Or Sloped Connections, Add	33.73	
05 12 23 00-0247 LF W27 x 178 A992/A36 Structural Beam Or Girder	447.22	92.65
For Hot Dip Galvanizing, Add	96.68	
For High Strength Low Alloy A572-50 Steel, Add	40.25	
For High Strength Low Alloy A588 Steel, Add	89.44	
For Each Additional Top Copes >2, Add	3.48	
For Structural Tees, WT, MT Or ST, Deduct	-141.70	
For Skewed Or Sloped Connections, Add	53.67	

05 Metals

05 10 Structural Metal Framing

05 12 Structural Steel Framing



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0248 LF W27 x 161 A992/A36 Structural Beam Or Girder	410.21	89.16
For Hot Dip Galvanizing, Add	87.44	
For High Strength Low Alloy A572-50 Steel, Add	36.92	
For High Strength Low Alloy A588 Steel, Add	82.04	
For Each Additional Top Copes >2, Add	3.15	
For Structural Tees, WT, MT Or ST, Deduct	-129.31	
For Skewed Or Sloped Connections, Add	49.23	
05 12 23 00-0249 LF W27 x 146 A992/A36 Structural Beam Or Girder	377.48	86.00
For Hot Dip Galvanizing, Add	79.30	
For High Strength Low Alloy A572-50 Steel, Add	33.97	
For High Strength Low Alloy A588 Steel, Add	75.50	
For Each Additional Top Copes >2, Add	2.86	
For Structural Tees, WT, MT Or ST, Deduct	-118.36	
For Skewed Or Sloped Connections, Add	45.30	
05 12 23 00-0250 LF W27 x 114 A992/A36 Structural Beam Or Girder	299.32	71.44
For Hot Dip Galvanizing, Add	61.92	
For High Strength Low Alloy A572-50 Steel, Add	26.94	
For High Strength Low Alloy A588 Steel, Add	59.86	
For Each Additional Top Copes >2, Add	2.23	
For Structural Tees, WT, MT Or ST, Deduct	-93.33	
For Skewed Or Sloped Connections, Add	35.92	
05 12 23 00-0251 LF W27 x 102 A992/A36 Structural Beam Or Girder	282.42	77.63
For Hot Dip Galvanizing, Add	55.40	
For High Strength Low Alloy A572-50 Steel, Add	25.42	
For High Strength Low Alloy A588 Steel, Add	56.48	
For Each Additional Top Copes >2, Add	2.00	
For Structural Tees, WT, MT Or ST, Deduct	-86.43	
For Skewed Or Sloped Connections, Add	33.89	
05 12 23 00-0252 LF W27 x 94 A992/A36 Structural Beam Or Girder	270.06	77.12
For Hot Dip Galvanizing, Add	52.11	
For High Strength Low Alloy A572-50 Steel, Add	24.31	
For High Strength Low Alloy A588 Steel, Add	54.01	
For Each Additional Top Copes >2, Add	1.88	
For Structural Tees, WT, MT Or ST, Deduct	-82.18	
For Skewed Or Sloped Connections, Add	32.41	
05 12 23 00-0253 LF W27 x 84 A992/A36 Structural Beam Or Girder	254.97	76.59
For Hot Dip Galvanizing, Add	48.10	
For High Strength Low Alloy A572-50 Steel, Add	22.95	
For High Strength Low Alloy A588 Steel, Add	50.99	
For Each Additional Top Copes >2, Add	1.73	
For Structural Tees, WT, MT Or ST, Deduct	-77.00	
For Skewed Or Sloped Connections, Add	30.60	
05 12 23 00-0254 LF W24 x 162 A992/A36 Structural Beam Or Girder	395.11	85.47
For Hot Dip Galvanizing, Add	84.34	
For High Strength Low Alloy A572-50 Steel, Add	35.56	
For High Strength Low Alloy A588 Steel, Add	79.02	
For Each Additional Top Copes >2, Add	3.04	
For Structural Tees, WT, MT Or ST, Deduct	-124.61	
For Skewed Or Sloped Connections, Add	47.41	
05 12 23 00-0255 LF W24 x 146 A992/A36 Structural Beam Or Girder	361.33	81.94
For Hot Dip Galvanizing, Add	76.01	
For High Strength Low Alloy A572-50 Steel, Add	32.52	
For High Strength Low Alloy A588 Steel, Add	72.27	
For Each Additional Top Copes >2, Add	2.74	
For Structural Tees, WT, MT Or ST, Deduct	-113.35	
For Skewed Or Sloped Connections, Add	43.36	
05 12 23 00-0256 LF W24 x 131 A992/A36 Structural Beam Or Girder	329.22	78.22
For Hot Dip Galvanizing, Add	68.20	
For High Strength Low Alloy A572-50 Steel, Add	29.63	
For High Strength Low Alloy A588 Steel, Add	65.84	
For Each Additional Top Copes >2, Add	2.46	
For Structural Tees, WT, MT Or ST, Deduct	-102.71	
For Skewed Or Sloped Connections, Add	39.51	
05 12 23 00-0257 LF W24 x 117 A992/A36 Structural Beam Or Girder	298.79	74.32
For Hot Dip Galvanizing, Add	60.92	
For High Strength Low Alloy A572-50 Steel, Add	26.89	
For High Strength Low Alloy A588 Steel, Add	59.76	
For Each Additional Top Copes >2, Add	2.20	
For Structural Tees, WT, MT Or ST, Deduct	-92.69	
For Skewed Or Sloped Connections, Add	35.85	
05 12 23 00-0258 LF W24 x 104 A992/A36 Structural Beam Or Girder	270.08	70.28
For Hot Dip Galvanizing, Add	54.15	
For High Strength Low Alloy A572-50 Steel, Add	24.31	
For High Strength Low Alloy A588 Steel, Add	54.02	
For Each Additional Top Copes >2, Add	1.95	
For Structural Tees, WT, MT Or ST, Deduct	-83.28	
For Skewed Or Sloped Connections, Add	32.41	
05 12 23 00-0259 LF W24 x 94 A992/A36 Structural Beam Or Girder	258.62	77.12
For Hot Dip Galvanizing, Add	48.94	
For High Strength Low Alloy A572-50 Steel, Add	23.28	
For High Strength Low Alloy A588 Steel, Add	51.72	
For Each Additional Top Copes >2, Add	1.76	
For Structural Tees, WT, MT Or ST, Deduct	-78.18	
For Skewed Or Sloped Connections, Add	31.03	



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

05

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0260	LF		W24 x 84 A992/A36 Structural Beam Or Girder	235.91	68.36
			<i>For Hot Dip Galvanizing, Add</i>	45.21	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	21.23	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	47.18	
			<i>For Each Additional Top Copes >2, Add</i>	1.63	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-71.62	
			<i>For Skewed Or Sloped Connections, Add</i>	28.31	
05 12 23 00-0261	LF		W24 x 76 A992/A36 Structural Beam Or Girder	224.36	67.84
			<i>For Hot Dip Galvanizing, Add</i>	42.15	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	20.19	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	44.87	
			<i>For Each Additional Top Copes >2, Add</i>	1.52	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-67.65	
			<i>For Skewed Or Sloped Connections, Add</i>	26.92	
05 12 23 00-0262	LF		W24 x 68 A992/A36 Structural Beam Or Girder	209.80	67.46
			<i>For Hot Dip Galvanizing, Add</i>	38.25	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	18.88	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	41.96	
			<i>For Each Additional Top Copes >2, Add</i>	1.38	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-62.64	
			<i>For Skewed Or Sloped Connections, Add</i>	25.18	
05 12 23 00-0263	LF		W24 x 62 A992/A36 Structural Beam Or Girder	202.20	67.07
			<i>For Hot Dip Galvanizing, Add</i>	36.25	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	18.20	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	40.44	
			<i>For Each Additional Top Copes >2, Add</i>	1.31	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-60.03	
			<i>For Skewed Or Sloped Connections, Add</i>	24.26	
05 12 23 00-0264	LF		W24 x 55 A992/A36 Structural Beam Or Girder	191.77	66.81
			<i>For Hot Dip Galvanizing, Add</i>	33.46	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	17.26	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	38.35	
			<i>For Each Additional Top Copes >2, Add</i>	1.21	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-56.44	
			<i>For Skewed Or Sloped Connections, Add</i>	23.01	
05 12 23 00-0265	LF		W21 x 147 A992/A36 Structural Beam Or Girder	345.83	70.29
			<i>For Hot Dip Galvanizing, Add</i>	75.16	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	31.12	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	69.17	
			<i>For Each Additional Top Copes >2, Add</i>	2.71	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-109.79	
			<i>For Skewed Or Sloped Connections, Add</i>	41.50	
05 12 23 00-0266	LF		W21 x 132 A992/A36 Structural Beam Or Girder	314.83	67.15
			<i>For Hot Dip Galvanizing, Add</i>	67.49	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	28.33	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	62.97	
			<i>For Each Additional Top Copes >2, Add</i>	2.43	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-99.45	
			<i>For Skewed Or Sloped Connections, Add</i>	37.78	
05 12 23 00-0267	LF		W21 x 122 A992/A36 Structural Beam Or Girder	295.20	66.02
			<i>For Hot Dip Galvanizing, Add</i>	62.38	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	26.57	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	59.04	
			<i>For Each Additional Top Copes >2, Add</i>	2.25	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-92.76	
			<i>For Skewed Or Sloped Connections, Add</i>	35.42	
05 12 23 00-0268	LF		W21 x 111 A992/A36 Structural Beam Or Girder	272.68	63.91
			<i>For Hot Dip Galvanizing, Add</i>	56.75	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	24.54	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	54.54	
			<i>For Each Additional Top Copes >2, Add</i>	2.05	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-85.21	
			<i>For Skewed Or Sloped Connections, Add</i>	32.72	
05 12 23 00-0269	LF		W21 x 101 A992/A36 Structural Beam Or Girder	252.07	61.86
			<i>For Hot Dip Galvanizing, Add</i>	51.64	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	22.69	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	50.41	
			<i>For Each Additional Top Copes >2, Add</i>	1.86	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-78.33	
			<i>For Skewed Or Sloped Connections, Add</i>	30.25	
05 12 23 00-0270	LF		W21 x 93 A992/A36 Structural Beam Or Girder	245.11	69.13
			<i>For Hot Dip Galvanizing, Add</i>	47.55	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	22.06	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	49.02	
			<i>For Each Additional Top Copes >2, Add</i>	1.71	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-74.72	
			<i>For Skewed Or Sloped Connections, Add</i>	29.41	
05 12 23 00-0271	LF		W21 x 83 A992/A36 Structural Beam Or Girder	231.50	68.36
			<i>For Hot Dip Galvanizing, Add</i>	43.99	
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	20.84	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	46.30	
			<i>For Each Additional Top Copes >2, Add</i>	1.59	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-70.08	
			<i>For Skewed Or Sloped Connections, Add</i>	27.78	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0272 LF W21 x 73 A992/A36 Structural Beam Or Girder	214.79	67.84
For Hot Dip Galvanizing, Add	39.53	
For High Strength Low Alloy A572-50 Steel, Add	19.33	
For High Strength Low Alloy A588 Steel, Add	42.96	
For Each Additional Top Copes >2, Add	1.42	
For Structural Tees, WT, MT Or ST, Deduct	-64.33	
For Skewed Or Sloped Connections, Add	25.77	
05 12 23 00-0273 LF W21 x 68 A992/A36 Structural Beam Or Girder	206.39	67.46
For Hot Dip Galvanizing, Add	37.30	
For High Strength Low Alloy A572-50 Steel, Add	18.58	
For High Strength Low Alloy A588 Steel, Add	41.28	
For Each Additional Top Copes >2, Add	1.34	
For Structural Tees, WT, MT Or ST, Deduct	-61.44	
For Skewed Or Sloped Connections, Add	24.77	
05 12 23 00-0274 LF W21 x 62 A992/A36 Structural Beam Or Girder	198.79	67.07
For Hot Dip Galvanizing, Add	35.30	
For High Strength Low Alloy A572-50 Steel, Add	17.89	
For High Strength Low Alloy A588 Steel, Add	39.76	
For Each Additional Top Copes >2, Add	1.27	
For Structural Tees, WT, MT Or ST, Deduct	-58.84	
For Skewed Or Sloped Connections, Add	23.85	
05 12 23 00-0275 LF W21 x 57 A992/A36 Structural Beam Or Girder	191.90	66.94
For Hot Dip Galvanizing, Add	33.46	
For High Strength Low Alloy A572-50 Steel, Add	17.27	
For High Strength Low Alloy A588 Steel, Add	38.38	
For Each Additional Top Copes >2, Add	1.21	
For Structural Tees, WT, MT Or ST, Deduct	-56.47	
For Skewed Or Sloped Connections, Add	23.03	
05 12 23 00-0276 LF W21 x 50 A992/A36 Structural Beam Or Girder	170.18	58.06
For Hot Dip Galvanizing, Add	30.01	
For High Strength Low Alloy A572-50 Steel, Add	15.32	
For High Strength Low Alloy A588 Steel, Add	34.04	
For Each Additional Top Copes >2, Add	1.08	
For Structural Tees, WT, MT Or ST, Deduct	-50.26	
For Skewed Or Sloped Connections, Add	20.42	
05 12 23 00-0277 LF W21 x 44 A992/A36 Structural Beam Or Girder	162.18	57.80
For Hot Dip Galvanizing, Add	27.89	
For High Strength Low Alloy A572-50 Steel, Add	14.60	
For High Strength Low Alloy A588 Steel, Add	32.44	
For Each Additional Top Copes >2, Add	1.01	
For Structural Tees, WT, MT Or ST, Deduct	-47.51	
For Skewed Or Sloped Connections, Add	19.46	
05 12 23 00-0278 LF W18 x 119 A992/A36 Structural Beam Or Girder	287.04	65.80
For Hot Dip Galvanizing, Add	60.18	
For High Strength Low Alloy A572-50 Steel, Add	25.83	
For High Strength Low Alloy A588 Steel, Add	57.41	
For Each Additional Top Copes >2, Add	2.17	
For Structural Tees, WT, MT Or ST, Deduct	-89.94	
For Skewed Or Sloped Connections, Add	34.44	
05 12 23 00-0279 LF W18 x 106 A992/A36 Structural Beam Or Girder	259.67	62.35
For Hot Dip Galvanizing, Add	53.60	
For High Strength Low Alloy A572-50 Steel, Add	23.37	
For High Strength Low Alloy A588 Steel, Add	51.93	
For Each Additional Top Copes >2, Add	1.93	
For Structural Tees, WT, MT Or ST, Deduct	-80.91	
For Skewed Or Sloped Connections, Add	31.16	
05 12 23 00-0280 LF W18 x 97 A992/A36 Structural Beam Or Girder	250.65	69.13
For Hot Dip Galvanizing, Add	49.05	
For High Strength Low Alloy A572-50 Steel, Add	22.56	
For High Strength Low Alloy A588 Steel, Add	50.13	
For Each Additional Top Copes >2, Add	1.77	
For Structural Tees, WT, MT Or ST, Deduct	-76.64	
For Skewed Or Sloped Connections, Add	30.08	
05 12 23 00-0281 LF W18 x 86 A992/A36 Structural Beam Or Girder	235.04	68.48
For Hot Dip Galvanizing, Add	44.93	
For High Strength Low Alloy A572-50 Steel, Add	21.15	
For High Strength Low Alloy A588 Steel, Add	47.01	
For Each Additional Top Copes >2, Add	1.62	
For Structural Tees, WT, MT Or ST, Deduct	-71.30	
For Skewed Or Sloped Connections, Add	28.20	
05 12 23 00-0282 LF W18 x 76 A992/A36 Structural Beam Or Girder	220.95	67.84
For Hot Dip Galvanizing, Add	41.20	
For High Strength Low Alloy A572-50 Steel, Add	19.89	
For High Strength Low Alloy A588 Steel, Add	44.19	
For Each Additional Top Copes >2, Add	1.48	
For Structural Tees, WT, MT Or ST, Deduct	-66.46	
For Skewed Or Sloped Connections, Add	26.51	
05 12 23 00-0283 LF W18 x 71 A992/A36 Structural Beam Or Girder	210.66	67.72
For Hot Dip Galvanizing, Add	38.42	
For High Strength Low Alloy A572-50 Steel, Add	18.96	
For High Strength Low Alloy A588 Steel, Add	42.13	
For Each Additional Top Copes >2, Add	1.38	
For Structural Tees, WT, MT Or ST, Deduct	-62.90	
For Skewed Or Sloped Connections, Add	25.28	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0284 LF W18 x 65 A992/A36 Structural Beam Or Girder	200.64	67.46
For Hot Dip Galvanizing, Add	35.74	
For High Strength Low Alloy A572-50 Steel, Add	18.06	
For High Strength Low Alloy A588 Steel, Add	40.13	
For Each Additional Top Copes >2, Add	1.29	
For Structural Tees, WT, MT Or ST, Deduct	-59.45	
For Skewed Or Sloped Connections, Add	24.08	
05 12 23 00-0285 LF W18 x 60 A992/A36 Structural Beam Or Girder	191.62	66.94
For Hot Dip Galvanizing, Add	33.35	
For High Strength Low Alloy A572-50 Steel, Add	17.25	
For High Strength Low Alloy A588 Steel, Add	38.32	
For Each Additional Top Copes >2, Add	1.20	
For Structural Tees, WT, MT Or ST, Deduct	-56.35	
For Skewed Or Sloped Connections, Add	22.99	
05 12 23 00-0286 LF W18 x 55 A992/A36 Structural Beam Or Girder	182.54	66.81
For Hot Dip Galvanizing, Add	30.90	
For High Strength Low Alloy A572-50 Steel, Add	16.43	
For High Strength Low Alloy A588 Steel, Add	36.51	
For Each Additional Top Copes >2, Add	1.11	
For Structural Tees, WT, MT Or ST, Deduct	-53.21	
For Skewed Or Sloped Connections, Add	21.90	
05 12 23 00-0287 LF W18 x 50 A992/A36 Structural Beam Or Girder	164.57	58.06
For Hot Dip Galvanizing, Add	28.45	
For High Strength Low Alloy A572-50 Steel, Add	14.81	
For High Strength Low Alloy A588 Steel, Add	32.91	
For Each Additional Top Copes >2, Add	1.03	
For Structural Tees, WT, MT Or ST, Deduct	-48.29	
For Skewed Or Sloped Connections, Add	19.75	
05 12 23 00-0288 LF W18 x 46 A992/A36 Structural Beam Or Girder	157.50	57.93
For Hot Dip Galvanizing, Add	26.56	
For High Strength Low Alloy A572-50 Steel, Add	14.18	
For High Strength Low Alloy A588 Steel, Add	31.50	
For Each Additional Top Copes >2, Add	0.96	
For Structural Tees, WT, MT Or ST, Deduct	-45.86	
For Skewed Or Sloped Connections, Add	18.90	
05 12 23 00-0289 LF W18 x 40 A992/A36 Structural Beam Or Girder	137.85	49.44
For Hot Dip Galvanizing, Add	23.61	
For High Strength Low Alloy A572-50 Steel, Add	12.41	
For High Strength Low Alloy A588 Steel, Add	27.57	
For Each Additional Top Copes >2, Add	0.85	
For Structural Tees, WT, MT Or ST, Deduct	-40.33	
For Skewed Or Sloped Connections, Add	16.54	
05 12 23 00-0290 LF W18 x 35 A992/A36 Structural Beam Or Girder	128.96	49.30
For Hot Dip Galvanizing, Add	21.21	
For High Strength Low Alloy A572-50 Steel, Add	11.61	
For High Strength Low Alloy A588 Steel, Add	25.79	
For Each Additional Top Copes >2, Add	0.76	
For Structural Tees, WT, MT Or ST, Deduct	-37.26	
For Skewed Or Sloped Connections, Add	15.48	
05 12 23 00-0291 LF W16 x 100 A992/A36 Structural Beam Or Girder	237.90	44.93
For Hot Dip Galvanizing, Add	52.73	
For High Strength Low Alloy A572-50 Steel, Add	21.41	
For High Strength Low Alloy A588 Steel, Add	47.58	
For Each Additional Top Copes >2, Add	1.90	
For Structural Tees, WT, MT Or ST, Deduct	-76.08	
For Skewed Or Sloped Connections, Add	28.55	
05 12 23 00-0292 LF W16 x 89 A992/A36 Structural Beam Or Girder	217.85	44.15
For Hot Dip Galvanizing, Add	47.38	
For High Strength Low Alloy A572-50 Steel, Add	19.61	
For High Strength Low Alloy A588 Steel, Add	43.57	
For Each Additional Top Copes >2, Add	1.71	
For Structural Tees, WT, MT Or ST, Deduct	-69.18	
For Skewed Or Sloped Connections, Add	26.14	
05 12 23 00-0293 LF W16 x 77 A992/A36 Structural Beam Or Girder	196.35	43.64
For Hot Dip Galvanizing, Add	41.59	
For High Strength Low Alloy A572-50 Steel, Add	17.67	
For High Strength Low Alloy A588 Steel, Add	39.27	
For Each Additional Top Copes >2, Add	1.50	
For Structural Tees, WT, MT Or ST, Deduct	-61.75	
For Skewed Or Sloped Connections, Add	23.56	
05 12 23 00-0294 LF W16 x 67 A992/A36 Structural Beam Or Girder	178.05	43.00
For Hot Dip Galvanizing, Add	36.69	
For High Strength Low Alloy A572-50 Steel, Add	16.02	
For High Strength Low Alloy A588 Steel, Add	35.61	
For Each Additional Top Copes >2, Add	1.32	
For Structural Tees, WT, MT Or ST, Deduct	-55.44	
For Skewed Or Sloped Connections, Add	21.37	
05 12 23 00-0295 LF W16 x 57 A992/A36 Structural Beam Or Girder	159.96	42.35
For Hot Dip Galvanizing, Add	31.85	
For High Strength Low Alloy A572-50 Steel, Add	14.40	
For High Strength Low Alloy A588 Steel, Add	31.99	
For Each Additional Top Copes >2, Add	1.15	
For Structural Tees, WT, MT Or ST, Deduct	-49.21	
For Skewed Or Sloped Connections, Add	19.20	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0296 LF W16 x 50 A992/A36 Structural Beam Or Girder	147.33	41.96
For Hot Dip Galvanizing, Add	28.45	
For High Strength Low Alloy A572-50 Steel, Add	13.26	
For High Strength Low Alloy A588 Steel, Add	29.47	
For Each Additional Top Copes >2, Add	1.03	
For Structural Tees, WT, MT Or ST, Deduct	-44.85	
For Skewed Or Sloped Connections, Add	17.68	
05 12 23 00-0297 LF W16 x 45 A992/A36 Structural Beam Or Girder	138.44	41.71
For Hot Dip Galvanizing, Add	26.06	
For High Strength Low Alloy A572-50 Steel, Add	12.46	
For High Strength Low Alloy A588 Steel, Add	27.69	
For Each Additional Top Copes >2, Add	0.94	
For Structural Tees, WT, MT Or ST, Deduct	-41.77	
For Skewed Or Sloped Connections, Add	16.61	
05 12 23 00-0298 LF W16 x 40 A992/A36 Structural Beam Or Girder	129.22	41.33
For Hot Dip Galvanizing, Add	23.61	
For High Strength Low Alloy A572-50 Steel, Add	11.63	
For High Strength Low Alloy A588 Steel, Add	25.84	
For Each Additional Top Copes >2, Add	0.85	
For Structural Tees, WT, MT Or ST, Deduct	-38.60	
For Skewed Or Sloped Connections, Add	15.51	
05 12 23 00-0299 LF W16 x 36 A992/A36 Structural Beam Or Girder	122.01	41.06
For Hot Dip Galvanizing, Add	21.71	
For High Strength Low Alloy A572-50 Steel, Add	10.98	
For High Strength Low Alloy A588 Steel, Add	24.40	
For Each Additional Top Copes >2, Add	0.78	
For Structural Tees, WT, MT Or ST, Deduct	-36.14	
For Skewed Or Sloped Connections, Add	14.64	
05 12 23 00-0300 LF W16 x 31 A992/A36 Structural Beam Or Girder	104.31	32.70
For Hot Dip Galvanizing, Add	19.26	
For High Strength Low Alloy A572-50 Steel, Add	9.39	
For High Strength Low Alloy A588 Steel, Add	20.86	
For Each Additional Top Copes >2, Add	0.69	
For Structural Tees, WT, MT Or ST, Deduct	-31.28	
For Skewed Or Sloped Connections, Add	12.52	
05 12 23 00-0301 LF W16 x 26 A992/A36 Structural Beam Or Girder	92.71	32.32
For Hot Dip Galvanizing, Add	16.15	
For High Strength Low Alloy A572-50 Steel, Add	8.34	
For High Strength Low Alloy A588 Steel, Add	18.54	
For Each Additional Top Copes >2, Add	0.58	
For Structural Tees, WT, MT Or ST, Deduct	-27.27	
For Skewed Or Sloped Connections, Add	11.13	
05 12 23 00-0302 LF W14 x 99 A992/A36 Structural Beam Or Girder	227.46	36.82
For Hot Dip Galvanizing, Add	52.23	
For High Strength Low Alloy A572-50 Steel, Add	20.47	
For High Strength Low Alloy A588 Steel, Add	45.49	
For Each Additional Top Copes >2, Add	1.88	
For Structural Tees, WT, MT Or ST, Deduct	-73.72	
For Skewed Or Sloped Connections, Add	27.30	
05 12 23 00-0303 LF W14 x 90 A992/A36 Structural Beam Or Girder	211.16	36.18
For Hot Dip Galvanizing, Add	47.88	
For High Strength Low Alloy A572-50 Steel, Add	19.00	
For High Strength Low Alloy A588 Steel, Add	42.23	
For Each Additional Top Copes >2, Add	1.73	
For Structural Tees, WT, MT Or ST, Deduct	-68.11	
For Skewed Or Sloped Connections, Add	25.34	
05 12 23 00-0304 LF W14 x 82 A992/A36 Structural Beam Or Girder	196.61	35.79
For Hot Dip Galvanizing, Add	43.99	
For High Strength Low Alloy A572-50 Steel, Add	17.69	
For High Strength Low Alloy A588 Steel, Add	39.32	
For Each Additional Top Copes >2, Add	1.59	
For Structural Tees, WT, MT Or ST, Deduct	-63.10	
For Skewed Or Sloped Connections, Add	23.59	
05 12 23 00-0305 LF W14 x 74 A992/A36 Structural Beam Or Girder	182.06	35.28
For Hot Dip Galvanizing, Add	40.09	
For High Strength Low Alloy A572-50 Steel, Add	16.39	
For High Strength Low Alloy A588 Steel, Add	36.41	
For Each Additional Top Copes >2, Add	1.44	
For Structural Tees, WT, MT Or ST, Deduct	-58.08	
For Skewed Or Sloped Connections, Add	21.85	
05 12 23 00-0306 LF W14 x 68 A992/A36 Structural Beam Or Girder	171.23	34.89
For Hot Dip Galvanizing, Add	37.19	
For High Strength Low Alloy A572-50 Steel, Add	15.41	
For High Strength Low Alloy A588 Steel, Add	34.25	
For Each Additional Top Copes >2, Add	1.34	
For Structural Tees, WT, MT Or ST, Deduct	-54.35	
For Skewed Or Sloped Connections, Add	20.55	
05 12 23 00-0307 LF W14 x 61 A992/A36 Structural Beam Or Girder	158.61	34.50
For Hot Dip Galvanizing, Add	33.80	
For High Strength Low Alloy A572-50 Steel, Add	14.27	
For High Strength Low Alloy A588 Steel, Add	31.72	
For Each Additional Top Copes >2, Add	1.22	
For Structural Tees, WT, MT Or ST, Deduct	-49.99	
For Skewed Or Sloped Connections, Add	19.03	



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

05

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0308 LF W14 x 53 A992/A36 Structural Beam Or Girder	144.24	33.99
For Hot Dip Galvanizing, Add	29.95	
For High Strength Low Alloy A572-50 Steel, Add	12.98	
For High Strength Low Alloy A588 Steel, Add	28.85	
For Each Additional Top Copes >2, Add	1.08	
For Structural Tees, WT, MT Or ST, Deduct	-45.04	
For Skewed Or Sloped Connections, Add	17.31	
05 12 23 00-0309 LF W14 x 48 A992/A36 Structural Beam Or Girder	135.04	33.60
For Hot Dip Galvanizing, Add	27.51	
For High Strength Low Alloy A572-50 Steel, Add	12.15	
For High Strength Low Alloy A588 Steel, Add	27.01	
For Each Additional Top Copes >2, Add	0.99	
For Structural Tees, WT, MT Or ST, Deduct	-41.88	
For Skewed Or Sloped Connections, Add	16.20	
05 12 23 00-0310 LF W14 x 43 A992/A36 Structural Beam Or Girder	125.94	33.47
For Hot Dip Galvanizing, Add	25.06	
For High Strength Low Alloy A572-50 Steel, Add	11.33	
For High Strength Low Alloy A588 Steel, Add	25.19	
For Each Additional Top Copes >2, Add	0.90	
For Structural Tees, WT, MT Or ST, Deduct	-38.73	
For Skewed Or Sloped Connections, Add	15.11	
05 12 23 00-0311 LF W14 x 38 A992/A36 Structural Beam Or Girder	116.94	33.22
For Hot Dip Galvanizing, Add	22.66	
For High Strength Low Alloy A572-50 Steel, Add	10.52	
For High Strength Low Alloy A588 Steel, Add	23.39	
For Each Additional Top Copes >2, Add	0.82	
For Structural Tees, WT, MT Or ST, Deduct	-35.64	
For Skewed Or Sloped Connections, Add	14.03	
05 12 23 00-0312 LF W14 x 34 A992/A36 Structural Beam Or Girder	109.66	32.83
For Hot Dip Galvanizing, Add	20.71	
For High Strength Low Alloy A572-50 Steel, Add	9.87	
For High Strength Low Alloy A588 Steel, Add	21.93	
For Each Additional Top Copes >2, Add	0.75	
For Structural Tees, WT, MT Or ST, Deduct	-33.13	
For Skewed Or Sloped Connections, Add	13.16	
05 12 23 00-0313 LF W14 x 30 A992/A36 Structural Beam Or Girder	102.37	32.70
For Hot Dip Galvanizing, Add	18.76	
For High Strength Low Alloy A572-50 Steel, Add	9.21	
For High Strength Low Alloy A588 Steel, Add	20.47	
For Each Additional Top Copes >2, Add	0.68	
For Structural Tees, WT, MT Or ST, Deduct	-30.62	
For Skewed Or Sloped Connections, Add	12.28	
05 12 23 00-0314 LF W14 x 26 A992/A36 Structural Beam Or Girder	95.09	32.32
For Hot Dip Galvanizing, Add	16.81	
For High Strength Low Alloy A572-50 Steel, Add	8.56	
For High Strength Low Alloy A588 Steel, Add	19.02	
For Each Additional Top Copes >2, Add	0.61	
For Structural Tees, WT, MT Or ST, Deduct	-28.11	
For Skewed Or Sloped Connections, Add	11.41	
05 12 23 00-0315 LF W14 x 22 A992/A36 Structural Beam Or Girder	88.01	32.18
For Hot Dip Galvanizing, Add	14.92	
For High Strength Low Alloy A572-50 Steel, Add	7.92	
For High Strength Low Alloy A588 Steel, Add	17.60	
For Each Additional Top Copes >2, Add	0.54	
For Structural Tees, WT, MT Or ST, Deduct	-25.67	
For Skewed Or Sloped Connections, Add	10.56	
05 12 23 00-0316 LF W12 x 87 A992/A36 Structural Beam Or Girder	205.82	36.04
For Hot Dip Galvanizing, Add	46.43	
For High Strength Low Alloy A572-50 Steel, Add	18.52	
For High Strength Low Alloy A588 Steel, Add	41.16	
For Each Additional Top Copes >2, Add	1.67	
For Structural Tees, WT, MT Or ST, Deduct	-66.26	
For Skewed Or Sloped Connections, Add	24.70	
05 12 23 00-0317 LF W12 x 79 A992/A36 Structural Beam Or Girder	191.27	35.53
For Hot Dip Galvanizing, Add	42.54	
For High Strength Low Alloy A572-50 Steel, Add	17.21	
For High Strength Low Alloy A588 Steel, Add	38.25	
For Each Additional Top Copes >2, Add	1.53	
For Structural Tees, WT, MT Or ST, Deduct	-61.25	
For Skewed Or Sloped Connections, Add	22.95	
05 12 23 00-0318 LF W12 x 72 A992/A36 Structural Beam Or Girder	178.51	35.14
For Hot Dip Galvanizing, Add	39.14	
For High Strength Low Alloy A572-50 Steel, Add	16.07	
For High Strength Low Alloy A588 Steel, Add	35.70	
For Each Additional Top Copes >2, Add	1.41	
For Structural Tees, WT, MT Or ST, Deduct	-56.86	
For Skewed Or Sloped Connections, Add	21.42	
05 12 23 00-0319 LF W12 x 65 A992/A36 Structural Beam Or Girder	165.89	34.75
For Hot Dip Galvanizing, Add	35.74	
For High Strength Low Alloy A572-50 Steel, Add	14.93	
For High Strength Low Alloy A588 Steel, Add	33.18	
For Each Additional Top Copes >2, Add	1.29	
For Structural Tees, WT, MT Or ST, Deduct	-52.50	
For Skewed Or Sloped Connections, Add	19.91	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0320 LF W12 x 58 A992/A36 Structural Beam Or Girder	153.13	34.24
For Hot Dip Galvanizing, Add	32.35	
For High Strength Low Alloy A572-50 Steel, Add	13.78	
For High Strength Low Alloy A588 Steel, Add	30.63	
For Each Additional Top Copes >2, Add	1.17	
For Structural Tees, WT, MT Or ST, Deduct	-48.11	
For Skewed Or Sloped Connections, Add	18.38	
05 12 23 00-0321 LF W12 x 53 A992/A36 Structural Beam Or Girder	144.24	33.99
For Hot Dip Galvanizing, Add	29.95	
For High Strength Low Alloy A572-50 Steel, Add	12.98	
For High Strength Low Alloy A588 Steel, Add	28.85	
For Each Additional Top Copes >2, Add	1.08	
For Structural Tees, WT, MT Or ST, Deduct	-45.04	
For Skewed Or Sloped Connections, Add	17.31	
05 12 23 00-0322 LF W12 x 50 A992/A36 Structural Beam Or Girder	138.57	33.85
For Hot Dip Galvanizing, Add	28.45	
For High Strength Low Alloy A572-50 Steel, Add	12.47	
For High Strength Low Alloy A588 Steel, Add	27.71	
For Each Additional Top Copes >2, Add	1.03	
For Structural Tees, WT, MT Or ST, Deduct	-43.09	
For Skewed Or Sloped Connections, Add	16.63	
05 12 23 00-0323 LF W12 x 45 A992/A36 Structural Beam Or Girder	129.69	33.60
For Hot Dip Galvanizing, Add	26.06	
For High Strength Low Alloy A572-50 Steel, Add	11.67	
For High Strength Low Alloy A588 Steel, Add	25.94	
For Each Additional Top Copes >2, Add	0.94	
For Structural Tees, WT, MT Or ST, Deduct	-40.02	
For Skewed Or Sloped Connections, Add	15.56	
05 12 23 00-0324 LF W12 x 40 A992/A36 Structural Beam Or Girder	111.71	24.97
For Hot Dip Galvanizing, Add	23.61	
For High Strength Low Alloy A572-50 Steel, Add	10.05	
For High Strength Low Alloy A588 Steel, Add	22.34	
For Each Additional Top Copes >2, Add	0.85	
For Structural Tees, WT, MT Or ST, Deduct	-35.10	
For Skewed Or Sloped Connections, Add	13.41	
05 12 23 00-0325 LF W12 x 35 A992/A36 Structural Beam Or Girder	102.83	24.84
For Hot Dip Galvanizing, Add	21.21	
For High Strength Low Alloy A572-50 Steel, Add	9.25	
For High Strength Low Alloy A588 Steel, Add	20.57	
For Each Additional Top Copes >2, Add	0.76	
For Structural Tees, WT, MT Or ST, Deduct	-32.03	
For Skewed Or Sloped Connections, Add	12.34	
05 12 23 00-0326 LF W12 x 30 A992/A36 Structural Beam Or Girder	93.63	24.46
For Hot Dip Galvanizing, Add	18.76	
For High Strength Low Alloy A572-50 Steel, Add	8.43	
For High Strength Low Alloy A588 Steel, Add	18.73	
For Each Additional Top Copes >2, Add	0.68	
For Structural Tees, WT, MT Or ST, Deduct	-28.87	
For Skewed Or Sloped Connections, Add	11.24	
05 12 23 00-0327 LF W12 x 26 A992/A36 Structural Beam Or Girder	86.33	24.21
For Hot Dip Galvanizing, Add	16.81	
For High Strength Low Alloy A572-50 Steel, Add	7.77	
For High Strength Low Alloy A588 Steel, Add	17.27	
For Each Additional Top Copes >2, Add	0.61	
For Structural Tees, WT, MT Or ST, Deduct	-26.35	
For Skewed Or Sloped Connections, Add	10.36	
05 12 23 00-0328 LF W12 x 22 A992/A36 Structural Beam Or Girder	79.26	23.94
For Hot Dip Galvanizing, Add	14.92	
For High Strength Low Alloy A572-50 Steel, Add	7.13	
For High Strength Low Alloy A588 Steel, Add	15.85	
For Each Additional Top Copes >2, Add	0.54	
For Structural Tees, WT, MT Or ST, Deduct	-23.92	
For Skewed Or Sloped Connections, Add	9.51	
05 12 23 00-0329 LF W12 x 19 A992/A36 Structural Beam Or Girder	73.71	23.82
For Hot Dip Galvanizing, Add	13.42	
For High Strength Low Alloy A572-50 Steel, Add	6.63	
For High Strength Low Alloy A588 Steel, Add	14.74	
For Each Additional Top Copes >2, Add	0.48	
For Structural Tees, WT, MT Or ST, Deduct	-21.99	
For Skewed Or Sloped Connections, Add	8.85	
05 12 23 00-0330 LF W12 x 16 A992/A36 Structural Beam Or Girder	68.24	23.43
For Hot Dip Galvanizing, Add	11.97	
For High Strength Low Alloy A572-50 Steel, Add	6.14	
For High Strength Low Alloy A588 Steel, Add	13.65	
For Each Additional Top Copes >2, Add	0.43	
For Structural Tees, WT, MT Or ST, Deduct	-20.12	
For Skewed Or Sloped Connections, Add	8.19	
05 12 23 00-0331 LF W12 x 14 A992/A36 Structural Beam Or Girder	64.70	23.43
For Hot Dip Galvanizing, Add	11.03	
For High Strength Low Alloy A572-50 Steel, Add	5.82	
For High Strength Low Alloy A588 Steel, Add	12.94	
For Each Additional Top Copes >2, Add	0.40	
For Structural Tees, WT, MT Or ST, Deduct	-18.90	
For Skewed Or Sloped Connections, Add	7.76	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0332 LF W10 x 68 A992/A36 Structural Beam Or Girder	163.01	26.91
For Hot Dip Galvanizing, Add	37.30	
For High Strength Low Alloy A572-50 Steel, Add	14.67	
For High Strength Low Alloy A588 Steel, Add	32.60	
For Each Additional Top Copes >2, Add	1.34	
For Structural Tees, WT, MT Or ST, Deduct	-52.77	
For Skewed Or Sloped Connections, Add	19.56	
05 12 23 00-0333 LF W10 x 60 A992/A36 Structural Beam Or Girder	148.65	26.39
For Hot Dip Galvanizing, Add	33.46	
For High Strength Low Alloy A572-50 Steel, Add	13.38	
For High Strength Low Alloy A588 Steel, Add	29.73	
For Each Additional Top Copes >2, Add	1.21	
For Structural Tees, WT, MT Or ST, Deduct	-47.82	
For Skewed Or Sloped Connections, Add	17.84	
05 12 23 00-0334 LF W10 x 54 A992/A36 Structural Beam Or Girder	137.63	25.88
For Hot Dip Galvanizing, Add	30.51	
For High Strength Low Alloy A572-50 Steel, Add	12.39	
For High Strength Low Alloy A588 Steel, Add	27.53	
For Each Additional Top Copes >2, Add	1.10	
For Structural Tees, WT, MT Or ST, Deduct	-44.02	
For Skewed Or Sloped Connections, Add	16.52	
05 12 23 00-0335 LF W10 x 49 A992/A36 Structural Beam Or Girder	128.61	25.62
For Hot Dip Galvanizing, Add	28.12	
For High Strength Low Alloy A572-50 Steel, Add	11.57	
For High Strength Low Alloy A588 Steel, Add	25.72	
For Each Additional Top Copes >2, Add	1.01	
For Structural Tees, WT, MT Or ST, Deduct	-40.92	
For Skewed Or Sloped Connections, Add	15.43	
05 12 23 00-0336 LF W10 x 45 A992/A36 Structural Beam Or Girder	121.33	25.49
For Hot Dip Galvanizing, Add	26.17	
For High Strength Low Alloy A572-50 Steel, Add	10.92	
For High Strength Low Alloy A588 Steel, Add	24.27	
For Each Additional Top Copes >2, Add	0.94	
For Structural Tees, WT, MT Or ST, Deduct	-38.41	
For Skewed Or Sloped Connections, Add	14.56	
05 12 23 00-0337 LF W10 x 39 A992/A36 Structural Beam Or Girder	110.51	24.97
For Hot Dip Galvanizing, Add	23.27	
For High Strength Low Alloy A572-50 Steel, Add	9.95	
For High Strength Low Alloy A588 Steel, Add	22.10	
For Each Additional Top Copes >2, Add	0.84	
For Structural Tees, WT, MT Or ST, Deduct	-34.68	
For Skewed Or Sloped Connections, Add	13.26	
05 12 23 00-0338 LF W10 x 33 A992/A36 Structural Beam Or Girder	99.69	24.59
For Hot Dip Galvanizing, Add	20.38	
For High Strength Low Alloy A572-50 Steel, Add	8.97	
For High Strength Low Alloy A588 Steel, Add	19.94	
For Each Additional Top Copes >2, Add	0.73	
For Structural Tees, WT, MT Or ST, Deduct	-30.95	
For Skewed Or Sloped Connections, Add	11.96	
05 12 23 00-0339 LF W10 x 30 A992/A36 Structural Beam Or Girder	94.15	24.46
For Hot Dip Galvanizing, Add	18.88	
For High Strength Low Alloy A572-50 Steel, Add	8.47	
For High Strength Low Alloy A588 Steel, Add	18.83	
For Each Additional Top Copes >2, Add	0.68	
For Structural Tees, WT, MT Or ST, Deduct	-29.03	
For Skewed Or Sloped Connections, Add	11.30	
05 12 23 00-0340 LF W10 x 26 A992/A36 Structural Beam Or Girder	87.08	24.33
For Hot Dip Galvanizing, Add	16.98	
For High Strength Low Alloy A572-50 Steel, Add	7.84	
For High Strength Low Alloy A588 Steel, Add	17.42	
For Each Additional Top Copes >2, Add	0.61	
For Structural Tees, WT, MT Or ST, Deduct	-26.60	
For Skewed Or Sloped Connections, Add	10.45	
05 12 23 00-0341 LF W10 x 22 A992/A36 Structural Beam Or Girder	79.66	23.94
For Hot Dip Galvanizing, Add	15.03	
For High Strength Low Alloy A572-50 Steel, Add	7.17	
For High Strength Low Alloy A588 Steel, Add	15.93	
For Each Additional Top Copes >2, Add	0.54	
For Structural Tees, WT, MT Or ST, Deduct	-24.06	
For Skewed Or Sloped Connections, Add	9.56	
05 12 23 00-0342 LF W10 x 19 A992/A36 Structural Beam Or Girder	74.32	23.82
For Hot Dip Galvanizing, Add	13.59	
For High Strength Low Alloy A572-50 Steel, Add	6.69	
For High Strength Low Alloy A588 Steel, Add	14.86	
For Each Additional Top Copes >2, Add	0.49	
For Structural Tees, WT, MT Or ST, Deduct	-22.21	
For Skewed Or Sloped Connections, Add	8.92	
05 12 23 00-0343 LF W10 x 17 A992/A36 Structural Beam Or Girder	70.57	23.68
For Hot Dip Galvanizing, Add	12.58	
For High Strength Low Alloy A572-50 Steel, Add	6.35	
For High Strength Low Alloy A588 Steel, Add	14.11	
For Each Additional Top Copes >2, Add	0.45	
For Structural Tees, WT, MT Or ST, Deduct	-20.92	
For Skewed Or Sloped Connections, Add	8.47	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0344 LF W10 x 15 A992/A36 Structural Beam Or Girder	67.04	23.43
For Hot Dip Galvanizing, Add	11.64	
For High Strength Low Alloy A572-50 Steel, Add	6.03	
For High Strength Low Alloy A588 Steel, Add	13.41	
For Each Additional Top Copes >2, Add	0.42	
For Structural Tees, WT, MT Or ST, Deduct	-19.70	
For Skewed Or Sloped Connections, Add	8.04	
05 12 23 00-0345 LF W10 x 12 A992/A36 Structural Beam Or Girder	61.69	23.43
For Hot Dip Galvanizing, Add	10.19	
For High Strength Low Alloy A572-50 Steel, Add	5.55	
For High Strength Low Alloy A588 Steel, Add	12.34	
For Each Additional Top Copes >2, Add	0.37	
For Structural Tees, WT, MT Or ST, Deduct	-17.85	
For Skewed Or Sloped Connections, Add	7.40	
05 12 23 00-0346 LF W8 x 35 A992/A36 Structural Beam Or Girder	103.23	24.84
For Hot Dip Galvanizing, Add	21.32	
For High Strength Low Alloy A572-50 Steel, Add	9.29	
For High Strength Low Alloy A588 Steel, Add	20.65	
For Each Additional Top Copes >2, Add	0.77	
For Structural Tees, WT, MT Or ST, Deduct	-32.17	
For Skewed Or Sloped Connections, Add	12.39	
05 12 23 00-0347 LF W8 x 31 A992/A36 Structural Beam Or Girder	95.95	24.46
For Hot Dip Galvanizing, Add	19.38	
For High Strength Low Alloy A572-50 Steel, Add	8.64	
For High Strength Low Alloy A588 Steel, Add	19.19	
For Each Additional Top Copes >2, Add	0.70	
For Structural Tees, WT, MT Or ST, Deduct	-29.66	
For Skewed Or Sloped Connections, Add	11.51	
05 12 23 00-0348 LF W8 x 28 A992/A36 Structural Beam Or Girder	94.37	23.04
For Hot Dip Galvanizing, Add	19.36	
For High Strength Low Alloy A572-50 Steel, Add	8.49	
For High Strength Low Alloy A588 Steel, Add	18.87	
For Each Additional Top Copes >2, Add	0.70	
For Structural Tees, WT, MT Or ST, Deduct	-29.34	
For Skewed Or Sloped Connections, Add	11.32	
05 12 23 00-0349 LF W8 x 24 A992/A36 Structural Beam Or Girder	85.91	21.63
For Hot Dip Galvanizing, Add	17.45	
For High Strength Low Alloy A572-50 Steel, Add	7.73	
For High Strength Low Alloy A588 Steel, Add	17.18	
For Each Additional Top Copes >2, Add	0.63	
For Structural Tees, WT, MT Or ST, Deduct	-26.61	
For Skewed Or Sloped Connections, Add	10.31	
05 12 23 00-0350 LF W8 x 21 A992/A36 Structural Beam Or Girder	79.94	20.08
For Hot Dip Galvanizing, Add	16.22	
For High Strength Low Alloy A572-50 Steel, Add	7.19	
For High Strength Low Alloy A588 Steel, Add	15.99	
For Each Additional Top Copes >2, Add	0.58	
For Structural Tees, WT, MT Or ST, Deduct	-24.75	
For Skewed Or Sloped Connections, Add	9.59	
05 12 23 00-0351 LF W8 x 18 A992/A36 Structural Beam Or Girder	69.72	18.67
For Hot Dip Galvanizing, Add	13.81	
For High Strength Low Alloy A572-50 Steel, Add	6.27	
For High Strength Low Alloy A588 Steel, Add	13.94	
For Each Additional Top Copes >2, Add	0.50	
For Structural Tees, WT, MT Or ST, Deduct	-21.41	
For Skewed Or Sloped Connections, Add	8.37	
05 12 23 00-0352 LF W8 x 10 A992/A36 Structural Beam Or Girder	38.76	13.38
For Hot Dip Galvanizing, Add	6.83	
For High Strength Low Alloy A572-50 Steel, Add	3.49	
For High Strength Low Alloy A588 Steel, Add	7.75	
For Each Additional Top Copes >2, Add	0.25	
For Structural Tees, WT, MT Or ST, Deduct	-11.44	
For Skewed Or Sloped Connections, Add	4.65	
05 12 23 00-0353 LF W6 x 9 A992/A36 Structural Beam Or Girder	35.86	10.95
For Hot Dip Galvanizing, Add	6.74	
For High Strength Low Alloy A572-50 Steel, Add	3.23	
For High Strength Low Alloy A588 Steel, Add	7.17	
For Each Additional Top Copes >2, Add	0.24	
For Structural Tees, WT, MT Or ST, Deduct	-10.81	
For Skewed Or Sloped Connections, Add	4.30	
05 12 23 00-0354 A992/A36 Structural Steel, M Shapes (05 12 23 00-0136)		
Note: Includes material delivery and erection.		
05 12 23 00-0355 LF M14 x 18 A992/A36 Structural Steel	69.01	17.33
For Hot Dip Galvanizing, Add	14.02	
For High Strength Low Alloy A572-50 Steel, Add	6.21	
For High Strength Low Alloy A588 Grade B Steel, Add	13.80	
05 12 23 00-0356 LF M12 x 11.8 A992/A36 Structural Steel	49.47	15.33
For Hot Dip Galvanizing, Add	9.19	
For High Strength Low Alloy A572-50 Steel, Add	4.45	
For High Strength Low Alloy A588 Grade B Steel, Add	9.89	
05 12 23 00-0357 LF M10 x 9 A992/A36 Structural Steel	38.38	12.31
For Hot Dip Galvanizing, Add	7.01	
For High Strength Low Alloy A572-50 Steel, Add	3.45	
For High Strength Low Alloy A588 Grade B Steel, Add	7.68	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0358 LF M8 x 6.5 A992/A36 Structural Steel.....	27.73	8.89
For Hot Dip Galvanizing, Add	5.06	
For High Strength Low Alloy A572-50 Steel, Add	2.50	
For High Strength Low Alloy A588 Grade B Steel, Add	5.55	
05 12 23 00-0359 LF M6 x 20 A992/A36 Structural Steel.....	78.02	20.73
For Hot Dip Galvanizing, Add	15.58	
For High Strength Low Alloy A572-50 Steel, Add	7.02	
For High Strength Low Alloy A588 Grade B Steel, Add	15.60	
05 12 23 00-0360 LF M6 x 4.4 A992/A36 Structural Steel.....	18.75	6.01
For Hot Dip Galvanizing, Add	3.42	
For High Strength Low Alloy A572-50 Steel, Add	1.69	
For High Strength Low Alloy A588 Grade B Steel, Add	3.75	
05 12 23 00-0361 LF M5 x 18.9 A992/A36 Structural Steel.....	75.10	20.73
For Hot Dip Galvanizing, Add	14.70	
For High Strength Low Alloy A572-50 Steel, Add	6.76	
For High Strength Low Alloy A588 Grade B Steel, Add	15.02	
05 12 23 00-0362 LF M4 x 13 A992/A36 Structural Steel.....	61.56	20.34
For Hot Dip Galvanizing, Add	11.08	
For High Strength Low Alloy A572-50 Steel, Add	5.54	
For High Strength Low Alloy A588 Grade B Steel, Add	12.31	
05 12 23 00-0363 A992/A36 Structural Steel, S Shapes <small>(05 12 23 00-0136)</small>		
Note: Includes material delivery and erection.		
05 12 23 00-0364 LF S24 x 121 A992/A36 Structural Steel	415.34	87.81
For Hot Dip Galvanizing, Add	89.28	
For High Strength Low Alloy A572-50 Steel, Add	37.38	
For High Strength Low Alloy A588 Grade B Steel, Add	83.07	
05 12 23 00-0365 LF S24 x 106 A992/A36 Structural Steel	368.18	80.98
For Hot Dip Galvanizing, Add	78.21	
For High Strength Low Alloy A572-50 Steel, Add	33.14	
For High Strength Low Alloy A588 Grade B Steel, Add	73.64	
05 12 23 00-0366 LF S24 x 100 A992/A36 Structural Steel	351.62	80.41
For Hot Dip Galvanizing, Add	73.78	
For High Strength Low Alloy A572-50 Steel, Add	31.65	
For High Strength Low Alloy A588 Grade B Steel, Add	70.32	
05 12 23 00-0367 LF S24 x 90 A992/A36 Structural Steel	320.52	76.18
For Hot Dip Galvanizing, Add	66.41	
For High Strength Low Alloy A572-50 Steel, Add	28.85	
For High Strength Low Alloy A588 Grade B Steel, Add	64.10	
05 12 23 00-0368 LF S24 x 80 A992/A36 Structural Steel	288.69	71.28
For Hot Dip Galvanizing, Add	59.03	
For High Strength Low Alloy A572-50 Steel, Add	25.98	
For High Strength Low Alloy A588 Grade B Steel, Add	57.74	
05 12 23 00-0369 LF S20 x 96 A992/A36 Structural Steel	337.56	77.19
For Hot Dip Galvanizing, Add	70.83	
For High Strength Low Alloy A572-50 Steel, Add	30.38	
For High Strength Low Alloy A588 Grade B Steel, Add	67.51	
05 12 23 00-0370 LF S20 x 86 A992/A36 Structural Steel	306.27	72.79
For Hot Dip Galvanizing, Add	63.45	
For High Strength Low Alloy A572-50 Steel, Add	27.56	
For High Strength Low Alloy A588 Grade B Steel, Add	61.25	
05 12 23 00-0371 LF S20 x 75 A992/A36 Structural Steel	270.66	66.83
For Hot Dip Galvanizing, Add	55.34	
For High Strength Low Alloy A572-50 Steel, Add	24.36	
For High Strength Low Alloy A588 Grade B Steel, Add	54.13	
05 12 23 00-0372 LF S20 x 66 A992/A36 Structural Steel	241.48	61.90
For Hot Dip Galvanizing, Add	48.70	
For High Strength Low Alloy A572-50 Steel, Add	21.73	
For High Strength Low Alloy A588 Grade B Steel, Add	48.30	
05 12 23 00-0373 LF S18 x 70 A992/A36 Structural Steel	256.12	65.66
For Hot Dip Galvanizing, Add	51.65	
For High Strength Low Alloy A572-50 Steel, Add	23.05	
For High Strength Low Alloy A588 Grade B Steel, Add	51.22	
05 12 23 00-0374 LF S18 x 54.7 A992/A36 Structural Steel	203.02	54.01
For Hot Dip Galvanizing, Add	40.36	
For High Strength Low Alloy A572-50 Steel, Add	18.27	
For High Strength Low Alloy A588 Grade B Steel, Add	40.60	
05 12 23 00-0375 LF S15 x 50 A992/A36 Structural Steel	188.34	51.96
For Hot Dip Galvanizing, Add	36.89	
For High Strength Low Alloy A572-50 Steel, Add	16.95	
For High Strength Low Alloy A588 Grade B Steel, Add	37.67	
05 12 23 00-0376 LF S15 x 42.9 A992/A36 Structural Steel	164.10	46.92
For Hot Dip Galvanizing, Add	31.65	
For High Strength Low Alloy A572-50 Steel, Add	14.77	
For High Strength Low Alloy A588 Grade B Steel, Add	32.82	
05 12 23 00-0377 LF S12 x 50 A992/A36 Structural Steel	185.57	49.36
For Hot Dip Galvanizing, Add	36.89	
For High Strength Low Alloy A572-50 Steel, Add	16.70	
For High Strength Low Alloy A588 Grade B Steel, Add	37.11	
05 12 23 00-0378 LF S12 x 40.8 A992/A36 Structural Steel	153.68	42.40
For Hot Dip Galvanizing, Add	30.10	
For High Strength Low Alloy A572-50 Steel, Add	13.83	
For High Strength Low Alloy A588 Grade B Steel, Add	30.74	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0379 LF S12 x 35 A992/A36 Structural Steel	133.87	38.28
For Hot Dip Galvanizing, Add	25.82	
For High Strength Low Alloy A572-50 Steel, Add	12.05	
For High Strength Low Alloy A588 Grade B Steel, Add	26.77	
05 12 23 00-0380 LF S12 x 31.8 A992/A36 Structural Steel	123.59	36.62
For Hot Dip Galvanizing, Add	23.46	
For High Strength Low Alloy A572-50 Steel, Add	11.12	
For High Strength Low Alloy A588 Grade B Steel, Add	24.72	
05 12 23 00-0381 LF S10 x 35 A992/A36 Structural Steel	136.03	40.31
For Hot Dip Galvanizing, Add	25.82	
For High Strength Low Alloy A572-50 Steel, Add	12.24	
For High Strength Low Alloy A588 Grade B Steel, Add	27.21	
05 12 23 00-0382 LF S10 x 25.4 A992/A36 Structural Steel	100.36	30.79
For Hot Dip Galvanizing, Add	18.74	
For High Strength Low Alloy A572-50 Steel, Add	9.03	
For High Strength Low Alloy A588 Grade B Steel, Add	20.07	
05 12 23 00-0383 LF S8 x 23 A992/A36 Structural Steel	90.87	27.88
For Hot Dip Galvanizing, Add	16.97	
For High Strength Low Alloy A572-50 Steel, Add	8.18	
For High Strength Low Alloy A588 Grade B Steel, Add	18.17	
05 12 23 00-0384 LF S8 x 18.4 A992/A36 Structural Steel	73.95	23.48
For Hot Dip Galvanizing, Add	13.58	
For High Strength Low Alloy A572-50 Steel, Add	6.66	
For High Strength Low Alloy A588 Grade B Steel, Add	14.79	
05 12 23 00-0385 LF S7 x 20 A992/A36 Structural Steel	80.38	25.51
For Hot Dip Galvanizing, Add	14.76	
For High Strength Low Alloy A572-50 Steel, Add	7.23	
For High Strength Low Alloy A588 Grade B Steel, Add	16.08	
05 12 23 00-0386 LF S7 x 15.3 A992/A36 Structural Steel	62.59	20.56
For Hot Dip Galvanizing, Add	11.29	
For High Strength Low Alloy A572-50 Steel, Add	5.63	
For High Strength Low Alloy A588 Grade B Steel, Add	12.52	
05 12 23 00-0387 LF S6 x 17.25 A992/A36 Structural Steel	69.05	21.74
For Hot Dip Galvanizing, Add	12.73	
For High Strength Low Alloy A572-50 Steel, Add	6.21	
For High Strength Low Alloy A588 Grade B Steel, Add	13.81	
05 12 23 00-0388 LF S6 x 12.5 A992/A36 Structural Steel	59.12	20.08
For Hot Dip Galvanizing, Add	10.44	
For High Strength Low Alloy A572-50 Steel, Add	5.32	
For High Strength Low Alloy A588 Grade B Steel, Add	11.82	
05 12 23 00-0389 LF S5 x 14.75 A992/A36 Structural Steel	63.01	20.47
For Hot Dip Galvanizing, Add	11.45	
For High Strength Low Alloy A572-50 Steel, Add	5.67	
For High Strength Low Alloy A588 Grade B Steel, Add	12.60	
05 12 23 00-0390 LF S5 x 10 A992/A36 Structural Steel	53.38	19.96
For Hot Dip Galvanizing, Add	8.88	
For High Strength Low Alloy A572-50 Steel, Add	4.80	
For High Strength Low Alloy A588 Grade B Steel, Add	10.68	
05 12 23 00-0391 LF S4 x 9.5 A992/A36 Structural Steel	51.89	19.96
For Hot Dip Galvanizing, Add	8.47	
For High Strength Low Alloy A572-50 Steel, Add	4.67	
For High Strength Low Alloy A588 Grade B Steel, Add	10.38	
05 12 23 00-0392 LF S4 x 7.7 A992/A36 Structural Steel	48.46	19.96
For Hot Dip Galvanizing, Add	7.55	
For High Strength Low Alloy A572-50 Steel, Add	4.36	
For High Strength Low Alloy A588 Grade B Steel, Add	9.69	
05 12 23 00-0393 LF S3 x 7.5 A992/A36 Structural Steel	48.13	19.96
For Hot Dip Galvanizing, Add	7.46	
For High Strength Low Alloy A572-50 Steel, Add	4.33	
For High Strength Low Alloy A588 Grade B Steel, Add	9.63	
05 12 23 00-0394 LF S3 x 5.7 A992/A36 Structural Steel	44.04	19.82
For Hot Dip Galvanizing, Add	6.36	
For High Strength Low Alloy A572-50 Steel, Add	3.96	
For High Strength Low Alloy A588 Grade B Steel, Add	8.81	
05 12 23 00-0395 A992/A36 Structural Steel, HP Shapes (05 12 23 00-0136)		
Note: Includes material delivery and erection.		
05 12 23 00-0396 LF HP14 x 117 A992/A36 Structural Steel	256.23	26.02
For Hot Dip Galvanizing, Add	63.41	
For High Strength Low Alloy A572-50 Steel, Add	23.06	
For High Strength Low Alloy A588 Grade B Steel, Add	51.25	
05 12 23 00-0397 LF HP14 x 102 A992/A36 Structural Steel	224.18	24.21
For Hot Dip Galvanizing, Add	55.05	
For High Strength Low Alloy A572-50 Steel, Add	20.18	
For High Strength Low Alloy A588 Grade B Steel, Add	44.84	
05 12 23 00-0398 LF HP14 x 89 A992/A36 Structural Steel	199.73	22.71
For Hot Dip Galvanizing, Add	48.71	
For High Strength Low Alloy A572-50 Steel, Add	17.98	
For High Strength Low Alloy A588 Grade B Steel, Add	39.95	
05 12 23 00-0399 LF HP14 x 73 A992/A36 Structural Steel	165.32	21.40
For Hot Dip Galvanizing, Add	39.55	
For High Strength Low Alloy A572-50 Steel, Add	14.88	
For High Strength Low Alloy A588 Grade B Steel, Add	33.06	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0400 LF HP13 x 100 A992/A36 Structural Steel.....	219.80	23.74
For Hot Dip Galvanizing, Add	53.97	
For High Strength Low Alloy A572-50 Steel, Add	19.78	
For High Strength Low Alloy A588 Grade B Steel, Add	43.96	
05 12 23 00-0401 LF HP13 x 87 A992/A36 Structural Steel.....	195.24	22.20
For Hot Dip Galvanizing, Add	47.61	
For High Strength Low Alloy A572-50 Steel, Add	17.57	
For High Strength Low Alloy A588 Grade B Steel, Add	39.05	
05 12 23 00-0402 LF HP13 x 73 A992/A36 Structural Steel.....	165.32	21.40
For Hot Dip Galvanizing, Add	39.55	
For High Strength Low Alloy A572-50 Steel, Add	14.88	
For High Strength Low Alloy A588 Grade B Steel, Add	33.06	
05 12 23 00-0403 LF HP13 x 60 A992/A36 Structural Steel.....	140.04	20.51
For Hot Dip Galvanizing, Add	32.79	
For High Strength Low Alloy A572-50 Steel, Add	12.60	
For High Strength Low Alloy A588 Grade B Steel, Add	28.01	
05 12 23 00-0404 LF HP12 x 84 A992/A36 Structural Steel.....	184.15	23.41
For Hot Dip Galvanizing, Add	44.18	
For High Strength Low Alloy A572-50 Steel, Add	16.57	
For High Strength Low Alloy A588 Grade B Steel, Add	36.83	
05 12 23 00-0405 LF HP12 x 74 A992/A36 Structural Steel.....	162.68	22.08
For Hot Dip Galvanizing, Add	38.61	
For High Strength Low Alloy A572-50 Steel, Add	14.64	
For High Strength Low Alloy A588 Grade B Steel, Add	32.54	
05 12 23 00-0406 LF HP12 x 63 A992/A36 Structural Steel.....	140.02	20.30
For Hot Dip Galvanizing, Add	32.85	
For High Strength Low Alloy A572-50 Steel, Add	12.60	
For High Strength Low Alloy A588 Grade B Steel, Add	28.00	
05 12 23 00-0407 LF HP12 x 53 A992/A36 Structural Steel.....	128.38	19.30
For Hot Dip Galvanizing, Add	29.91	
For High Strength Low Alloy A572-50 Steel, Add	11.55	
For High Strength Low Alloy A588 Grade B Steel, Add	25.68	
05 12 23 00-0408 LF HP10 x 57 A992/A36 Structural Steel.....	135.25	19.81
For Hot Dip Galvanizing, Add	31.67	
For High Strength Low Alloy A572-50 Steel, Add	12.17	
For High Strength Low Alloy A588 Grade B Steel, Add	27.05	
05 12 23 00-0409 LF HP10 x 42 A992/A36 Structural Steel.....	111.44	18.57
For Hot Dip Galvanizing, Add	25.43	
For High Strength Low Alloy A572-50 Steel, Add	10.03	
For High Strength Low Alloy A588 Grade B Steel, Add	22.29	
05 12 23 00-0410 LF HP8 x 36 A992/A36 Structural Steel.....	96.87	17.50
For Hot Dip Galvanizing, Add	21.70	
For High Strength Low Alloy A572-50 Steel, Add	8.72	
For High Strength Low Alloy A588 Grade B Steel, Add	19.37	
05 12 23 00-0411 Lightweight Framing Steel Shapes <small>(05 12 23)</small>		
Note: Includes cutting to length. Excludes fasteners or welds. When used with structural steel shapes by TON, connecting bolts or welds are considered included with structural steel tasks by TON.		
05 12 23 00-0412 Angle Iron - L <small>(05 12 23 00-0411)</small>		
05 12 23 00-0413 1/8" Thick <small>(05 12 23 00-0412)</small>		
05 12 23 00-0414 LF 1/2" x 1/2" x 1/8" Thick, Plain Steel Angle Iron.....	2.95	1.77
For >100 To 250, Deduct	-0.18	
For >250 To 500, Deduct	-0.25	
For >500 To 1,000, Deduct	-0.38	
For >1,000, Deduct	-0.52	
For 316 Stainless Steel, Add	1.86	
For Aluminum, Add	0.10	
For Galvanized Steel, Add	0.36	
For 304 Stainless Steel, Add	1.65	
For High Strength Steel (HSS), Add	0.59	
05 12 23 00-0415 LF 3/4" x 1/2" x 1/8" Thick, Plain Steel Angle Iron.....	3.42	2.01
For >100 To 250, Deduct	-0.20	
For >250 To 500, Deduct	-0.29	
For >500 To 1,000, Deduct	-0.44	
For >1,000, Deduct	-0.59	
For 316 Stainless Steel, Add	2.34	
For Aluminum, Add	0.13	
For Galvanized Steel, Add	0.45	
For 304 Stainless Steel, Add	2.08	
For High Strength Steel (HSS), Add	0.68	
05 12 23 00-0416 LF 3/4" x 3/4" x 1/8" Thick, Plain Steel Angle Iron.....	3.86	2.22
For >100 To 250, Deduct	-0.22	
For >250 To 500, Deduct	-0.32	
For >500 To 1,000, Deduct	-0.49	
For >1,000, Deduct	-0.66	
For 316 Stainless Steel, Add	2.88	
For Aluminum, Add	0.16	
For Galvanized Steel, Add	0.56	
For 304 Stainless Steel, Add	2.57	
For High Strength Steel (HSS), Add	0.77	

05 Metals

05 10 Structural Metal Framing

05 12 Structural Steel Framing



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0417	LF		1" x 3/4" x 1/8" Thick, Plain Steel Angle Iron.....	4.34	2.47
			<i>For >100 To 250, Deduct</i>	-0.25	
			<i>For >250 To 500, Deduct</i>	-0.36	
			<i>For >500 To 1,000, Deduct</i>	-0.55	
			<i>For >1,000, Deduct</i>	-0.74	
			<i>For 316 Stainless Steel, Add</i>	3.36	
			<i>For Aluminum, Add</i>	0.19	
			<i>For Galvanized Steel, Add</i>	0.65	
			<i>For 304 Stainless Steel, Add</i>	2.99	
			<i>For High Strength Steel (HSS), Add</i>	0.87	
05 12 23 00-0418	LF		1" x 1" x 1/8" Thick, Plain Steel Angle Iron.....	4.78	2.67
			<i>For >100 To 250, Deduct</i>	-0.27	
			<i>For >250 To 500, Deduct</i>	-0.39	
			<i>For >500 To 1,000, Deduct</i>	-0.60	
			<i>For >1,000, Deduct</i>	-0.80	
			<i>For 316 Stainless Steel, Add</i>	3.90	
			<i>For Aluminum, Add</i>	0.22	
			<i>For Galvanized Steel, Add</i>	0.76	
			<i>For 304 Stainless Steel, Add</i>	3.48	
			<i>For High Strength Steel (HSS), Add</i>	0.96	
05 12 23 00-0419	LF		1-1/4" x 1-1/4" x 1/8" Thick, Plain Steel Angle Iron.....	5.74	3.14
			<i>For >100 To 250, Deduct</i>	-0.31	
			<i>For >250 To 500, Deduct</i>	-0.46	
			<i>For >500 To 1,000, Deduct</i>	-0.71	
			<i>For >1,000, Deduct</i>	-0.95	
			<i>For 316 Stainless Steel, Add</i>	4.96	
			<i>For Aluminum, Add</i>	0.28	
			<i>For Galvanized Steel, Add</i>	0.96	
			<i>For 304 Stainless Steel, Add</i>	4.42	
			<i>For High Strength Steel (HSS), Add</i>	1.15	
05 12 23 00-0420	LF		1-1/2" x 1" x 1/8" Thick, Plain Steel Angle Iron.....	5.74	3.14
			<i>For >100 To 250, Deduct</i>	-0.31	
			<i>For >250 To 500, Deduct</i>	-0.46	
			<i>For >500 To 1,000, Deduct</i>	-0.71	
			<i>For >1,000, Deduct</i>	-0.95	
			<i>For 316 Stainless Steel, Add</i>	4.96	
			<i>For Aluminum, Add</i>	0.28	
			<i>For Galvanized Steel, Add</i>	0.96	
			<i>For 304 Stainless Steel, Add</i>	4.42	
			<i>For High Strength Steel (HSS), Add</i>	1.15	
05 12 23 00-0421	LF		1-1/2" x 1-1/2" x 1/8" Thick, Plain Steel Angle Iron.....	6.35	3.37
			<i>For >100 To 250, Deduct</i>	-0.34	
			<i>For >250 To 500, Deduct</i>	-0.50	
			<i>For >500 To 1,000, Deduct</i>	-0.77	
			<i>For >1,000, Deduct</i>	-1.04	
			<i>For 316 Stainless Steel, Add</i>	5.95	
			<i>For Aluminum, Add</i>	0.33	
			<i>For Galvanized Steel, Add</i>	1.15	
			<i>For 304 Stainless Steel, Add</i>	5.30	
			<i>For High Strength Steel (HSS), Add</i>	1.27	
05 12 23 00-0422	LF		1-3/4" x 1-3/4" x 1/8" Thick, Plain Steel Angle Iron.....	6.86	3.48
			<i>For >100 To 250, Deduct</i>	-0.35	
			<i>For >250 To 500, Deduct</i>	-0.52	
			<i>For >500 To 1,000, Deduct</i>	-0.81	
			<i>For >1,000, Deduct</i>	-1.10	
			<i>For 316 Stainless Steel, Add</i>	7.07	
			<i>For Aluminum, Add</i>	0.40	
			<i>For Galvanized Steel, Add</i>	1.37	
			<i>For 304 Stainless Steel, Add</i>	6.30	
			<i>For High Strength Steel (HSS), Add</i>	1.37	
05 12 23 00-0423	LF		2" x 1-1/2" x 1/8" Thick, Plain Steel Angle Iron.....	6.86	3.48
			<i>For >100 To 250, Deduct</i>	-0.35	
			<i>For >250 To 500, Deduct</i>	-0.52	
			<i>For >500 To 1,000, Deduct</i>	-0.81	
			<i>For >1,000, Deduct</i>	-1.10	
			<i>For 316 Stainless Steel, Add</i>	7.07	
			<i>For Aluminum, Add</i>	0.40	
			<i>For Galvanized Steel, Add</i>	1.37	
			<i>For 304 Stainless Steel, Add</i>	6.30	
			<i>For High Strength Steel (HSS), Add</i>	1.37	
05 12 23 00-0424	LF		2" x 2" x 1/8" Thick, Plain Steel Angle Iron.....	7.33	3.60
			<i>For >100 To 250, Deduct</i>	-0.36	
			<i>For >250 To 500, Deduct</i>	-0.54	
			<i>For >500 To 1,000, Deduct</i>	-0.85	
			<i>For >1,000, Deduct</i>	-1.15	
			<i>For 316 Stainless Steel, Add</i>	8.10	
			<i>For Aluminum, Add</i>	0.46	
			<i>For Galvanized Steel, Add</i>	1.57	
			<i>For 304 Stainless Steel, Add</i>	7.21	
			<i>For High Strength Steel (HSS), Add</i>	1.47	

05 12 23 00-0425 3/16" Thick (05 12 23 00-0412)



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0426 LF 1" x 1" x 3/16" Thick, Plain Steel Angle Iron	5.54	2.82
For >100 To 250, Deduct	-0.28	
For >250 To 500, Deduct	-0.42	
For >500 To 1,000, Deduct	-0.65	
For >1,000, Deduct	-0.89	
For 316 Stainless Steel, Add	5.70	
For Aluminum, Add	0.32	
For Galvanized Steel, Add	1.10	
For 304 Stainless Steel, Add	5.07	
For High Strength Steel (HSS), Add	1.11	
05 12 23 00-0427 LF 1-1/4" x 1-1/4" x 3/16" Thick, Plain Steel Angle Iron	6.69	3.31
For >100 To 250, Deduct	-0.33	
For >250 To 500, Deduct	-0.50	
For >500 To 1,000, Deduct	-0.78	
For >1,000, Deduct	-1.05	
For 316 Stainless Steel, Add	7.26	
For Aluminum, Add	0.41	
For Galvanized Steel, Add	1.41	
For 304 Stainless Steel, Add	6.47	
For High Strength Steel (HSS), Add	1.34	
05 12 23 00-0428 LF 1-1/2" x 1" x 3/16" Thick, Plain Steel Angle Iron	6.69	3.31
For >100 To 250, Deduct	-0.33	
For >250 To 500, Deduct	-0.50	
For >500 To 1,000, Deduct	-0.78	
For >1,000, Deduct	-1.05	
For 316 Stainless Steel, Add	7.26	
For Aluminum, Add	0.41	
For Galvanized Steel, Add	1.41	
For 304 Stainless Steel, Add	6.47	
For High Strength Steel (HSS), Add	1.34	
05 12 23 00-0429 LF 1-1/2" x 1-1/2" x 3/16" Thick, Plain Steel Angle Iron	7.49	3.56
For >100 To 250, Deduct	-0.35	
For >250 To 500, Deduct	-0.54	
For >500 To 1,000, Deduct	-0.85	
For >1,000, Deduct	-1.15	
For 316 Stainless Steel, Add	8.83	
For Aluminum, Add	0.50	
For Galvanized Steel, Add	1.71	
For 304 Stainless Steel, Add	7.87	
For High Strength Steel (HSS), Add	1.50	
05 12 23 00-0430 LF 1-3/4" x 1-3/4" x 3/16" Thick, Plain Steel Angle Iron	8.16	3.68
For >100 To 250, Deduct	-0.37	
For >250 To 500, Deduct	-0.57	
For >500 To 1,000, Deduct	-0.90	
For >1,000, Deduct	-1.23	
For 316 Stainless Steel, Add	10.40	
For Aluminum, Add	0.59	
For Galvanized Steel, Add	2.02	
For 304 Stainless Steel, Add	9.26	
For High Strength Steel (HSS), Add	1.63	
05 12 23 00-0431 LF 2" x 1-1/2" x 3/16" Thick, Plain Steel Angle Iron	8.16	3.68
For >100 To 250, Deduct	-0.37	
For >250 To 500, Deduct	-0.57	
For >500 To 1,000, Deduct	-0.90	
For >1,000, Deduct	-1.23	
For 316 Stainless Steel, Add	10.40	
For Aluminum, Add	0.59	
For Galvanized Steel, Add	2.02	
For 304 Stainless Steel, Add	9.26	
For High Strength Steel (HSS), Add	1.63	
05 12 23 00-0432 LF 2" x 2" x 3/16" Thick, Plain Steel Angle Iron	8.83	3.81
For >100 To 250, Deduct	-0.38	
For >250 To 500, Deduct	-0.60	
For >500 To 1,000, Deduct	-0.95	
For >1,000, Deduct	-1.30	
For 316 Stainless Steel, Add	12.00	
For Aluminum, Add	0.68	
For Galvanized Steel, Add	2.33	
For 304 Stainless Steel, Add	10.69	
For High Strength Steel (HSS), Add	1.77	
05 12 23 00-0433 LF 2-1/2" x 2" x 3/16" Thick, Plain Steel Angle Iron	9.66	4.08
For >100 To 250, Deduct	-0.41	
For >250 To 500, Deduct	-0.65	
For >500 To 1,000, Deduct	-1.03	
For >1,000, Deduct	-1.40	
For 316 Stainless Steel, Add	13.50	
For Aluminum, Add	0.76	
For Galvanized Steel, Add	2.62	
For 304 Stainless Steel, Add	12.03	
For High Strength Steel (HSS), Add	1.93	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0434 LF 2-1/2" x 2-1/2" x 3/16" Thick, Plain Steel Angle Iron	10.56	4.37
For >100 To 250, Deduct	-0.44	
For >250 To 500, Deduct	-0.70	
For >500 To 1,000, Deduct	-1.11	
For >1,000, Deduct	-1.52	
For 316 Stainless Steel, Add	15.14	
For Aluminum, Add	0.85	
For Galvanized Steel, Add	2.93	
For 304 Stainless Steel, Add	13.48	
For High Strength Steel (HSS), Add	2.11	
05 12 23 00-0435 LF 3" x 2" x 3/16" Thick, Plain Steel Angle Iron	10.54	4.37
For >100 To 250, Deduct	-0.44	
For >250 To 500, Deduct	-0.70	
For >500 To 1,000, Deduct	-1.11	
For >1,000, Deduct	-1.52	
For 316 Stainless Steel, Add	15.07	
For Aluminum, Add	0.85	
For Galvanized Steel, Add	2.92	
For 304 Stainless Steel, Add	13.42	
For High Strength Steel (HSS), Add	2.11	
05 12 23 00-0436 LF 3" x 2-1/2" x 3/16" Thick, Plain Steel Angle Iron	11.64	4.82
For >100 To 250, Deduct	-0.48	
For >250 To 500, Deduct	-0.77	
For >500 To 1,000, Deduct	-1.23	
For >1,000, Deduct	-1.68	
For 316 Stainless Steel, Add	16.64	
For Aluminum, Add	0.94	
For Galvanized Steel, Add	3.22	
For 304 Stainless Steel, Add	14.82	
For High Strength Steel (HSS), Add	2.33	
05 12 23 00-0437 LF 3" x 3" x 3/16" Thick, Plain Steel Angle Iron	12.73	5.29
For >100 To 250, Deduct	-0.53	
For >250 To 500, Deduct	-0.85	
For >500 To 1,000, Deduct	-1.34	
For >1,000, Deduct	-1.83	
For 316 Stainless Steel, Add	18.21	
For Aluminum, Add	1.02	
For Galvanized Steel, Add	3.53	
For 304 Stainless Steel, Add	16.22	
For High Strength Steel (HSS), Add	2.55	
05 12 23 00-0438 1/4" Thick (05 12 23 00-0412)		
05 12 23 00-0439 LF 1" x 1" x 1/4" Thick, Plain Steel Angle Iron	6.61	3.26
For >100 To 250, Deduct	-0.33	
For >250 To 500, Deduct	-0.49	
For >500 To 1,000, Deduct	-0.77	
For >1,000, Deduct	-1.04	
For 316 Stainless Steel, Add	7.23	
For Aluminum, Add	0.41	
For Galvanized Steel, Add	1.40	
For 304 Stainless Steel, Add	6.44	
For High Strength Steel (HSS), Add	1.32	
05 12 23 00-0440 LF 1-1/4" x 1-1/4" x 1/4" Thick, Plain Steel Angle Iron	7.59	3.50
For >100 To 250, Deduct	-0.35	
For >250 To 500, Deduct	-0.54	
For >500 To 1,000, Deduct	-0.85	
For >1,000, Deduct	-1.15	
For 316 Stainless Steel, Add	9.34	
For Aluminum, Add	0.53	
For Galvanized Steel, Add	1.81	
For 304 Stainless Steel, Add	8.32	
For High Strength Steel (HSS), Add	1.52	
05 12 23 00-0441 LF 1-1/2" x 1" x 1/4" Thick, Plain Steel Angle Iron	7.58	3.50
For >100 To 250, Deduct	-0.35	
For >250 To 500, Deduct	-0.54	
For >500 To 1,000, Deduct	-0.85	
For >1,000, Deduct	-1.15	
For 316 Stainless Steel, Add	9.31	
For Aluminum, Add	0.52	
For Galvanized Steel, Add	1.80	
For 304 Stainless Steel, Add	8.29	
For High Strength Steel (HSS), Add	1.52	
05 12 23 00-0442 LF 1-1/2" x 1-1/2" x 1/4" Thick, Plain Steel Angle Iron	8.55	3.75
For >100 To 250, Deduct	-0.38	
For >250 To 500, Deduct	-0.59	
For >500 To 1,000, Deduct	-0.93	
For >1,000, Deduct	-1.27	
For 316 Stainless Steel, Add	11.36	
For Aluminum, Add	0.64	
For Galvanized Steel, Add	2.20	
For 304 Stainless Steel, Add	10.12	
For High Strength Steel (HSS), Add	1.71	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0443 LF 1-3/4" x 1-3/4" x 1/4" Thick, Plain Steel Angle Iron	9.43	3.87
For >100 To 250, Deduct	-0.39	
For >250 To 500, Deduct	-0.62	
For >500 To 1,000, Deduct	-0.99	
For >1,000, Deduct	-1.35	
For 316 Stainless Steel, Add	13.63	
For Aluminum, Add	0.77	
For Galvanized Steel, Add	2.64	
For 304 Stainless Steel, Add	12.14	
For High Strength Steel (HSS), Add	1.89	
05 12 23 00-0444 LF 2" x 1" x 1/4" Thick, Plain Steel Angle Iron	8.34	3.63
For >100 To 250, Deduct	-0.36	
For >250 To 500, Deduct	-0.57	
For >500 To 1,000, Deduct	-0.89	
For >1,000, Deduct	-1.22	
For 316 Stainless Steel, Add	11.46	
For Aluminum, Add	0.64	
For Galvanized Steel, Add	2.22	
For 304 Stainless Steel, Add	10.20	
For High Strength Steel (HSS), Add	1.67	
05 12 23 00-0445 LF 2" x 1-1/2" x 1/4" Thick, Plain Steel Angle Iron	9.41	3.87
For >100 To 250, Deduct	-0.39	
For >250 To 500, Deduct	-0.62	
For >500 To 1,000, Deduct	-0.99	
For >1,000, Deduct	-1.35	
For 316 Stainless Steel, Add	13.57	
For Aluminum, Add	0.76	
For Galvanized Steel, Add	2.63	
For 304 Stainless Steel, Add	12.08	
For High Strength Steel (HSS), Add	1.88	
05 12 23 00-0446 LF 2" x 2" x 1/4" Thick, Plain Steel Angle Iron	10.22	4.00
For >100 To 250, Deduct	-0.40	
For >250 To 500, Deduct	-0.66	
For >500 To 1,000, Deduct	-1.04	
For >1,000, Deduct	-1.43	
For 316 Stainless Steel, Add	15.65	
For Aluminum, Add	0.88	
For Galvanized Steel, Add	3.03	
For 304 Stainless Steel, Add	13.94	
For High Strength Steel (HSS), Add	2.04	
05 12 23 00-0447 LF 2-1/2" x 2" x 1/4" Thick, Plain Steel Angle Iron	11.46	4.43
For >100 To 250, Deduct	-0.44	
For >250 To 500, Deduct	-0.73	
For >500 To 1,000, Deduct	-1.16	
For >1,000, Deduct	-1.60	
For 316 Stainless Steel, Add	17.79	
For Aluminum, Add	1.00	
For Galvanized Steel, Add	3.45	
For 304 Stainless Steel, Add	15.85	
For High Strength Steel (HSS), Add	2.29	
05 12 23 00-0448 LF 2-1/2" x 2-1/2" x 1/4" Thick, Plain Steel Angle Iron	12.76	4.85
For >100 To 250, Deduct	-0.49	
For >250 To 500, Deduct	-0.81	
For >500 To 1,000, Deduct	-1.29	
For >1,000, Deduct	-1.77	
For 316 Stainless Steel, Add	20.10	
For Aluminum, Add	1.13	
For Galvanized Steel, Add	3.89	
For 304 Stainless Steel, Add	17.90	
For High Strength Steel (HSS), Add	2.55	
05 12 23 00-0449 LF 3" x 2" x 1/4" Thick, Plain Steel Angle Iron	12.76	4.85
For >100 To 250, Deduct	-0.49	
For >250 To 500, Deduct	-0.81	
For >500 To 1,000, Deduct	-1.29	
For >1,000, Deduct	-1.77	
For 316 Stainless Steel, Add	20.10	
For Aluminum, Add	1.13	
For Galvanized Steel, Add	3.89	
For 304 Stainless Steel, Add	17.90	
For High Strength Steel (HSS), Add	2.55	
05 12 23 00-0450 LF 3" x 2-1/2" x 1/4" Thick, Plain Steel Angle Iron	14.09	5.39
For >100 To 250, Deduct	-0.54	
For >250 To 500, Deduct	-0.89	
For >500 To 1,000, Deduct	-1.42	
For >1,000, Deduct	-1.95	
For 316 Stainless Steel, Add	22.11	
For Aluminum, Add	1.24	
For Galvanized Steel, Add	4.28	
For 304 Stainless Steel, Add	19.69	
For High Strength Steel (HSS), Add	2.82	

05 Metals

05 10 Structural Metal Framing

05 12 Structural Steel Framing



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0451	LF		3" x 3" x 1/4" Thick, Plain Steel Angle Iron.....	15.40	5.92
			<i>For >100 To 250, Deduct</i>	-0.59	
			<i>For >250 To 500, Deduct</i>	-0.98	
			<i>For >500 To 1,000, Deduct</i>	-1.56	
			<i>For >1,000, Deduct</i>	-2.14	
			<i>For 316 Stainless Steel, Add</i>	24.00	
			<i>For Aluminum, Add</i>	1.35	
			<i>For Galvanized Steel, Add</i>	4.65	
			<i>For 304 Stainless Steel, Add</i>	21.38	
			<i>For High Strength Steel (HSS), Add</i>	3.08	
05 12 23 00-0452	LF		3-1/2" x 3" x 1/4" Thick, Plain Steel Angle Iron	16.76	6.37
			<i>For >100 To 250, Deduct</i>	-0.64	
			<i>For >250 To 500, Deduct</i>	-1.06	
			<i>For >500 To 1,000, Deduct</i>	-1.69	
			<i>For >1,000, Deduct</i>	-2.32	
			<i>For 316 Stainless Steel, Add</i>	26.46	
			<i>For Aluminum, Add</i>	1.49	
			<i>For Galvanized Steel, Add</i>	5.13	
			<i>For 304 Stainless Steel, Add</i>	23.57	
			<i>For High Strength Steel (HSS), Add</i>	3.35	
05 12 23 00-0453	LF		3-1/2" x 3-1/2" x 1/4" Thick, Plain Steel Angle Iron	17.76	0.66
			<i>For >100 To 250, Deduct</i>	-0.66	
			<i>For >250 To 500, Deduct</i>	-1.11	
			<i>For >500 To 1,000, Deduct</i>	-1.77	
			<i>For >1,000, Deduct</i>	-2.44	
			<i>For 316 Stainless Steel, Add</i>	28.48	
			<i>For Aluminum, Add</i>	1.60	
			<i>For Galvanized Steel, Add</i>	5.52	
			<i>For 304 Stainless Steel, Add</i>	25.37	
			<i>For High Strength Steel (HSS), Add</i>	3.55	
05 12 23 00-0454	LF		4" x 3" x 1/4" Thick, Plain Steel Angle Iron.....	17.76	6.65
			<i>For >100 To 250, Deduct</i>	-0.66	
			<i>For >250 To 500, Deduct</i>	-1.11	
			<i>For >500 To 1,000, Deduct</i>	-1.77	
			<i>For >1,000, Deduct</i>	-2.44	
			<i>For 316 Stainless Steel, Add</i>	28.48	
			<i>For Aluminum, Add</i>	1.60	
			<i>For Galvanized Steel, Add</i>	5.52	
			<i>For 304 Stainless Steel, Add</i>	25.37	
			<i>For High Strength Steel (HSS), Add</i>	3.55	
05 12 23 00-0455	LF		4" x 3-1/2" x 1/4" Thick, Plain Steel Angle Iron	18.73	6.93
			<i>For >100 To 250, Deduct</i>	-0.69	
			<i>For >250 To 500, Deduct</i>	-1.16	
			<i>For >500 To 1,000, Deduct</i>	-1.86	
			<i>For >1,000, Deduct</i>	-2.56	
			<i>For 316 Stainless Steel, Add</i>	30.37	
			<i>For Aluminum, Add</i>	1.71	
			<i>For Galvanized Steel, Add</i>	5.88	
			<i>For 304 Stainless Steel, Add</i>	27.05	
			<i>For High Strength Steel (HSS), Add</i>	3.75	
05 12 23 00-0456	LF		4" x 4" x 1/4" Thick, Plain Steel Angle Iron.....	19.76	7.22
			<i>For >100 To 250, Deduct</i>	-0.72	
			<i>For >250 To 500, Deduct</i>	-1.22	
			<i>For >500 To 1,000, Deduct</i>	-1.95	
			<i>For >1,000, Deduct</i>	-2.69	
			<i>For 316 Stainless Steel, Add</i>	32.42	
			<i>For Aluminum, Add</i>	1.82	
			<i>For Galvanized Steel, Add</i>	6.28	
			<i>For 304 Stainless Steel, Add</i>	28.87	
			<i>For High Strength Steel (HSS), Add</i>	3.95	
05 12 23 00-0457	LF		5" x 3" x 1/4" Thick, Plain Steel Angle Iron.....	19.76	7.22
			<i>For >100 To 250, Deduct</i>	-0.72	
			<i>For >250 To 500, Deduct</i>	-1.22	
			<i>For >500 To 1,000, Deduct</i>	-1.95	
			<i>For >1,000, Deduct</i>	-2.69	
			<i>For 316 Stainless Steel, Add</i>	32.42	
			<i>For Aluminum, Add</i>	1.82	
			<i>For Galvanized Steel, Add</i>	6.28	
			<i>For 304 Stainless Steel, Add</i>	28.87	
			<i>For High Strength Steel (HSS), Add</i>	3.95	
05 12 23 00-0458	LF		5" x 3-1/2" x 1/4" Thick, Plain Steel Angle Iron	20.87	7.61
			<i>For >100 To 250, Deduct</i>	-0.76	
			<i>For >250 To 500, Deduct</i>	-1.28	
			<i>For >500 To 1,000, Deduct</i>	-2.06	
			<i>For >1,000, Deduct</i>	-2.83	
			<i>For 316 Stainless Steel, Add</i>	34.30	
			<i>For Aluminum, Add</i>	1.93	
			<i>For Galvanized Steel, Add</i>	6.65	
			<i>For 304 Stainless Steel, Add</i>	30.55	
			<i>For High Strength Steel (HSS), Add</i>	4.17	

05 12 23 00-0459 5/16" Thick (05 12 23 00-0412)



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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0460	LF		2-1/2" x 2" x 5/16" Thick, Plain Steel Angle Iron	13.77	5.15
			<i>For >100 To 250, Deduct</i>	-0.51	
			<i>For >250 To 500, Deduct</i>	-0.86	
			<i>For >500 To 1,000, Deduct</i>	-1.37	
			<i>For >1,000, Deduct</i>	-1.89	
			<i>For 316 Stainless Steel, Add</i>	22.11	
			<i>For Aluminum, Add</i>	1.24	
			<i>For Galvanized Steel, Add</i>	4.28	
			<i>For 304 Stainless Steel, Add</i>	19.69	
			<i>For High Strength Steel (HSS), Add</i>	2.75	
05 12 23 00-0461	LF		2-1/2" x 2-1/2" x 5/16" Thick, Plain Steel Angle Iron	14.94	5.46
			<i>For >100 To 250, Deduct</i>	-0.55	
			<i>For >250 To 500, Deduct</i>	-0.92	
			<i>For >500 To 1,000, Deduct</i>	-1.47	
			<i>For >1,000, Deduct</i>	-2.03	
			<i>For 316 Stainless Steel, Add</i>	24.54	
			<i>For Aluminum, Add</i>	1.38	
			<i>For Galvanized Steel, Add</i>	4.76	
			<i>For 304 Stainless Steel, Add</i>	21.86	
			<i>For High Strength Steel (HSS), Add</i>	2.99	
05 12 23 00-0462	LF		3" x 2" x 5/16" Thick, Plain Steel Angle Iron	14.94	5.46
			<i>For >100 To 250, Deduct</i>	-0.55	
			<i>For >250 To 500, Deduct</i>	-0.92	
			<i>For >500 To 1,000, Deduct</i>	-1.47	
			<i>For >1,000, Deduct</i>	-2.03	
			<i>For 316 Stainless Steel, Add</i>	24.54	
			<i>For Aluminum, Add</i>	1.38	
			<i>For Galvanized Steel, Add</i>	4.76	
			<i>For 304 Stainless Steel, Add</i>	21.86	
			<i>For High Strength Steel (HSS), Add</i>	2.99	
05 12 23 00-0463	LF		3" x 2-1/2" x 5/16" Thick, Plain Steel Angle Iron	16.58	5.98
			<i>For >100 To 250, Deduct</i>	-0.60	
			<i>For >250 To 500, Deduct</i>	-1.01	
			<i>For >500 To 1,000, Deduct</i>	-1.63	
			<i>For >1,000, Deduct</i>	-2.24	
			<i>For 316 Stainless Steel, Add</i>	27.52	
			<i>For Aluminum, Add</i>	1.55	
			<i>For Galvanized Steel, Add</i>	5.33	
			<i>For 304 Stainless Steel, Add</i>	24.51	
			<i>For High Strength Steel (HSS), Add</i>	3.32	
05 12 23 00-0464	LF		3" x 3" x 5/16" Thick, Plain Steel Angle Iron	18.03	6.51
			<i>For >100 To 250, Deduct</i>	-0.65	
			<i>For >250 To 500, Deduct</i>	-1.10	
			<i>For >500 To 1,000, Deduct</i>	-1.77	
			<i>For >1,000, Deduct</i>	-2.44	
			<i>For 316 Stainless Steel, Add</i>	29.95	
			<i>For Aluminum, Add</i>	1.68	
			<i>For Galvanized Steel, Add</i>	5.80	
			<i>For 304 Stainless Steel, Add</i>	26.68	
			<i>For High Strength Steel (HSS), Add</i>	3.61	
05 12 23 00-0465	LF		3-1/2" x 3" x 5/16" Thick, Plain Steel Angle Iron	19.24	6.84
			<i>For >100 To 250, Deduct</i>	-0.68	
			<i>For >250 To 500, Deduct</i>	-1.16	
			<i>For >500 To 1,000, Deduct</i>	-1.87	
			<i>For >1,000, Deduct</i>	-2.58	
			<i>For 316 Stainless Steel, Add</i>	32.42	
			<i>For Aluminum, Add</i>	1.82	
			<i>For Galvanized Steel, Add</i>	6.28	
			<i>For 304 Stainless Steel, Add</i>	28.87	
			<i>For High Strength Steel (HSS), Add</i>	3.85	
05 12 23 00-0466	LF		3-1/2" x 3-1/2" x 5/16" Thick, Plain Steel Angle Iron	20.58	7.17
			<i>For >100 To 250, Deduct</i>	-0.72	
			<i>For >250 To 500, Deduct</i>	-1.23	
			<i>For >500 To 1,000, Deduct</i>	-1.99	
			<i>For >1,000, Deduct</i>	-2.74	
			<i>For 316 Stainless Steel, Add</i>	35.26	
			<i>For Aluminum, Add</i>	1.98	
			<i>For Galvanized Steel, Add</i>	6.83	
			<i>For 304 Stainless Steel, Add</i>	31.41	
			<i>For High Strength Steel (HSS), Add</i>	4.12	
05 12 23 00-0467	LF		4" x 3" x 5/16" Thick, Plain Steel Angle Iron	20.58	7.17
			<i>For >100 To 250, Deduct</i>	-0.72	
			<i>For >250 To 500, Deduct</i>	-1.23	
			<i>For >500 To 1,000, Deduct</i>	-1.99	
			<i>For >1,000, Deduct</i>	-2.74	
			<i>For 316 Stainless Steel, Add</i>	35.26	
			<i>For Aluminum, Add</i>	1.98	
			<i>For Galvanized Steel, Add</i>	6.83	
			<i>For 304 Stainless Steel, Add</i>	31.41	
			<i>For High Strength Steel (HSS), Add</i>	4.12	

05 Metals

05 10 Structural Metal Framing

05 12 Structural Steel Framing



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0468	LF		4" x 3-1/2" x 5/16" Thick, Plain Steel Angle Iron	21.90	7.58
			<i>For >100 To 250, Deduct</i>	-0.76	
			<i>For >250 To 500, Deduct</i>	-1.31	
			<i>For >500 To 1,000, Deduct</i>	-2.11	
			<i>For >1,000, Deduct</i>	-2.91	
			<i>For 316 Stainless Steel, Add</i>	37.73	
			<i>For Aluminum, Add</i>	2.12	
			<i>For Galvanized Steel, Add</i>	7.31	
			<i>For 304 Stainless Steel, Add</i>	33.60	
			<i>For High Strength Steel (HSS), Add</i>	4.38	
05 12 23 00-0469	LF		4" x 4" x 5/16" Thick, Plain Steel Angle Iron.....	23.15	7.92
			<i>For >100 To 250, Deduct</i>	-0.79	
			<i>For >250 To 500, Deduct</i>	-1.37	
			<i>For >500 To 1,000, Deduct</i>	-2.21	
			<i>For >1,000, Deduct</i>	-3.06	
			<i>For 316 Stainless Steel, Add</i>	40.29	
			<i>For Aluminum, Add</i>	2.27	
			<i>For Galvanized Steel, Add</i>	7.81	
			<i>For 304 Stainless Steel, Add</i>	35.88	
			<i>For High Strength Steel (HSS), Add</i>	4.63	
05 12 23 00-0470	LF		5" x 3" x 5/16" Thick, Plain Steel Angle Iron.....	23.15	7.92
			<i>For >100 To 250, Deduct</i>	-0.79	
			<i>For >250 To 500, Deduct</i>	-1.37	
			<i>For >500 To 1,000, Deduct</i>	-2.21	
			<i>For >1,000, Deduct</i>	-3.06	
			<i>For 316 Stainless Steel, Add</i>	40.29	
			<i>For Aluminum, Add</i>	2.27	
			<i>For Galvanized Steel, Add</i>	7.81	
			<i>For 304 Stainless Steel, Add</i>	35.88	
			<i>For High Strength Steel (HSS), Add</i>	4.63	
05 12 23 00-0471	LF		5" x 3-1/2" x 5/16" Thick, Plain Steel Angle Iron	24.32	8.25
			<i>For >100 To 250, Deduct</i>	-0.83	
			<i>For >250 To 500, Deduct</i>	-1.43	
			<i>For >500 To 1,000, Deduct</i>	-2.32	
			<i>For >1,000, Deduct</i>	-3.20	
			<i>For 316 Stainless Steel, Add</i>	42.62	
			<i>For Aluminum, Add</i>	2.40	
			<i>For Galvanized Steel, Add</i>	8.26	
			<i>For 304 Stainless Steel, Add</i>	37.96	
			<i>For High Strength Steel (HSS), Add</i>	4.86	
05 12 23 00-0472	LF		5" x 5" x 5/16" Thick, Plain Steel Angle Iron.....	27.27	8.60
			<i>For >100 To 250, Deduct</i>	-0.86	
			<i>For >250 To 500, Deduct</i>	-1.54	
			<i>For >500 To 1,000, Deduct</i>	-2.51	
			<i>For >1,000, Deduct</i>	-3.48	
			<i>For 316 Stainless Steel, Add</i>	50.59	
			<i>For Aluminum, Add</i>	2.85	
			<i>For Galvanized Steel, Add</i>	9.80	
			<i>For 304 Stainless Steel, Add</i>	45.06	
			<i>For High Strength Steel (HSS), Add</i>	5.45	
05 12 23 00-0473	LF		6" x 3-1/2" x 5/16" Thick, Plain Steel Angle Iron	26.95	8.95
			<i>For >100 To 250, Deduct</i>	-0.90	
			<i>For >250 To 500, Deduct</i>	-1.57	
			<i>For >500 To 1,000, Deduct</i>	-2.54	
			<i>For >1,000, Deduct</i>	-3.52	
			<i>For 316 Stainless Steel, Add</i>	48.00	
			<i>For Aluminum, Add</i>	2.70	
			<i>For Galvanized Steel, Add</i>	9.30	
			<i>For 304 Stainless Steel, Add</i>	42.75	
			<i>For High Strength Steel (HSS), Add</i>	5.39	
05 12 23 00-0474			3/8" Thick <small>(05 12 23 00-0412)</small>		
05 12 23 00-0475	LF		3" x 2" x 3/8" Thick, Plain Steel Angle Iron.....	16.64	5.71
			<i>For >100 To 250, Deduct</i>	-0.57	
			<i>For >250 To 500, Deduct</i>	-0.99	
			<i>For >500 To 1,000, Deduct</i>	-1.59	
			<i>For >1,000, Deduct</i>	-2.20	
			<i>For 316 Stainless Steel, Add</i>	28.90	
			<i>For Aluminum, Add</i>	1.63	
			<i>For Galvanized Steel, Add</i>	5.60	
			<i>For 304 Stainless Steel, Add</i>	25.74	
			<i>For High Strength Steel (HSS), Add</i>	3.33	
05 12 23 00-0476	LF		3" x 2-1/2" x 3/8" Thick, Plain Steel Angle Iron	18.38	6.18
			<i>For >100 To 250, Deduct</i>	-0.62	
			<i>For >250 To 500, Deduct</i>	-1.08	
			<i>For >500 To 1,000, Deduct</i>	-1.74	
			<i>For >1,000, Deduct</i>	-2.41	
			<i>For 316 Stainless Steel, Add</i>	32.42	
			<i>For Aluminum, Add</i>	1.82	
			<i>For Galvanized Steel, Add</i>	6.28	
			<i>For 304 Stainless Steel, Add</i>	28.87	
			<i>For High Strength Steel (HSS), Add</i>	3.68	



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

05

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0477 LF 3" x 3" x 3/8" Thick, Plain Steel Angle Iron	19.90	6.67
For >100 To 250, Deduct	-0.67	
For >250 To 500, Deduct	-1.16	
For >500 To 1,000, Deduct	-1.88	
For >1,000, Deduct	-2.60	
For 316 Stainless Steel, Add	35.26	
For Aluminum, Add	1.98	
For Galvanized Steel, Add	6.83	
For 304 Stainless Steel, Add	31.41	
For High Strength Steel (HSS), Add	3.98	
05 12 23 00-0478 LF 3-1/2" x 3" x 3/8" Thick, Plain Steel Angle Iron	21.26	6.85
For >100 To 250, Deduct	-0.68	
For >250 To 500, Deduct	-1.22	
For >500 To 1,000, Deduct	-1.98	
For >1,000, Deduct	-2.74	
For 316 Stainless Steel, Add	38.82	
For Aluminum, Add	2.18	
For Galvanized Steel, Add	7.52	
For 304 Stainless Steel, Add	34.57	
For High Strength Steel (HSS), Add	4.25	
05 12 23 00-0479 LF 3-1/2" x 3-1/2" x 3/8" Thick, Plain Steel Angle Iron	22.64	7.22
For >100 To 250, Deduct	-0.72	
For >250 To 500, Deduct	-1.29	
For >500 To 1,000, Deduct	-2.10	
For >1,000, Deduct	-2.90	
For 316 Stainless Steel, Add	41.63	
For Aluminum, Add	2.34	
For Galvanized Steel, Add	8.07	
For 304 Stainless Steel, Add	37.08	
For High Strength Steel (HSS), Add	4.53	
05 12 23 00-0480 LF 4" x 3" x 3/8" Thick, Plain Steel Angle Iron	22.64	7.22
For >100 To 250, Deduct	-0.72	
For >250 To 500, Deduct	-1.29	
For >500 To 1,000, Deduct	-2.10	
For >1,000, Deduct	-2.90	
For 316 Stainless Steel, Add	41.63	
For Aluminum, Add	2.34	
For Galvanized Steel, Add	8.07	
For 304 Stainless Steel, Add	37.08	
For High Strength Steel (HSS), Add	4.53	
05 12 23 00-0481 LF 4" x 3-1/2" x 3/8" Thick, Plain Steel Angle Iron	24.42	7.87
For >100 To 250, Deduct	-0.79	
For >250 To 500, Deduct	-1.40	
For >500 To 1,000, Deduct	-2.27	
For >1,000, Deduct	-3.14	
For 316 Stainless Steel, Add	44.58	
For Aluminum, Add	2.51	
For Galvanized Steel, Add	8.64	
For 304 Stainless Steel, Add	39.70	
For High Strength Steel (HSS), Add	4.88	
05 12 23 00-0482 LF 4" x 4" x 3/8" Thick, Plain Steel Angle Iron	25.80	8.10
For >100 To 250, Deduct	-0.81	
For >250 To 500, Deduct	-1.46	
For >500 To 1,000, Deduct	-2.37	
For >1,000, Deduct	-3.29	
For 316 Stainless Steel, Add	48.00	
For Aluminum, Add	2.70	
For Galvanized Steel, Add	9.30	
For 304 Stainless Steel, Add	42.75	
For High Strength Steel (HSS), Add	5.16	
05 12 23 00-0483 LF 5" x 3" x 3/8" Thick, Plain Steel Angle Iron	26.22	8.42
For >100 To 250, Deduct	-0.84	
For >250 To 500, Deduct	-1.50	
For >500 To 1,000, Deduct	-2.43	
For >1,000, Deduct	-3.37	
For 316 Stainless Steel, Add	48.00	
For Aluminum, Add	2.70	
For Galvanized Steel, Add	9.30	
For 304 Stainless Steel, Add	42.75	
For High Strength Steel (HSS), Add	5.24	
05 12 23 00-0484 LF 5" x 3-1/2" x 3/8" Thick, Plain Steel Angle Iron	28.02	9.07
For >100 To 250, Deduct	-0.91	
For >250 To 500, Deduct	-1.61	
For >500 To 1,000, Deduct	-2.61	
For >1,000, Deduct	-3.61	
For 316 Stainless Steel, Add	50.94	
For Aluminum, Add	2.87	
For Galvanized Steel, Add	9.87	
For 304 Stainless Steel, Add	45.37	
For High Strength Steel (HSS), Add	5.60	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0485	LF		5" x 5" x 3/8" Thick, Plain Steel Angle Iron.....	32.97	10.58
			<i>For >100 To 250, Deduct</i>	-1.06	
			<i>For >250 To 500, Deduct</i>	-1.88	
			<i>For >500 To 1,000, Deduct</i>	-3.06	
			<i>For >1,000, Deduct</i>	-4.23	
			<i>For 316 Stainless Steel, Add</i>	60.42	
			<i>For Aluminum, Add</i>	3.40	
			<i>For Galvanized Steel, Add</i>	11.71	
			<i>For 304 Stainless Steel, Add</i>	53.81	
			<i>For High Strength Steel (HSS), Add</i>	6.59	
05 12 23 00-0486	LF		6" x 3-1/2" x 3/8" Thick, Plain Steel Angle Iron	31.01	9.83
			<i>For >100 To 250, Deduct</i>	-0.98	
			<i>For >250 To 500, Deduct</i>	-1.76	
			<i>For >500 To 1,000, Deduct</i>	-2.86	
			<i>For >1,000, Deduct</i>	-3.96	
			<i>For 316 Stainless Steel, Add</i>	57.31	
			<i>For Aluminum, Add</i>	3.22	
			<i>For Galvanized Steel, Add</i>	11.10	
			<i>For 304 Stainless Steel, Add</i>	51.04	
			<i>For High Strength Steel (HSS), Add</i>	6.20	
05 12 23 00-0487	LF		6" x 4" x 3/8" Thick, Plain Steel Angle Iron.....	32.97	10.58
			<i>For >100 To 250, Deduct</i>	-1.06	
			<i>For >250 To 500, Deduct</i>	-1.88	
			<i>For >500 To 1,000, Deduct</i>	-3.06	
			<i>For >1,000, Deduct</i>	-4.23	
			<i>For 316 Stainless Steel, Add</i>	60.42	
			<i>For Aluminum, Add</i>	3.40	
			<i>For Galvanized Steel, Add</i>	11.71	
			<i>For 304 Stainless Steel, Add</i>	53.81	
			<i>For High Strength Steel (HSS), Add</i>	6.59	
05 12 23 00-0488	LF		6" x 6" x 3/8" Thick, Plain Steel Angle Iron.....	39.78	12.69
			<i>For >100 To 250, Deduct</i>	-1.27	
			<i>For >250 To 500, Deduct</i>	-2.26	
			<i>For >500 To 1,000, Deduct</i>	-3.68	
			<i>For >1,000, Deduct</i>	-5.10	
			<i>For 316 Stainless Steel, Add</i>	73.18	
			<i>For Aluminum, Add</i>	4.12	
			<i>For Galvanized Steel, Add</i>	14.18	
			<i>For 304 Stainless Steel, Add</i>	65.18	
			<i>For High Strength Steel (HSS), Add</i>	7.96	
05 12 23 00-0489	LF		7" x 4" x 3/8" Thick, Plain Steel Angle Iron.....	36.38	11.63
			<i>For >100 To 250, Deduct</i>	-1.16	
			<i>For >250 To 500, Deduct</i>	-2.07	
			<i>For >500 To 1,000, Deduct</i>	-3.37	
			<i>For >1,000, Deduct</i>	-4.67	
			<i>For 316 Stainless Steel, Add</i>	66.78	
			<i>For Aluminum, Add</i>	3.76	
			<i>For Galvanized Steel, Add</i>	12.94	
			<i>For 304 Stainless Steel, Add</i>	59.48	
			<i>For High Strength Steel (HSS), Add</i>	7.28	
05 12 23 00-0490			1/2" Thick (05 12 23 00-0412)		
05 12 23 00-0491	LF		3" x 3" x 1/2" Thick, Plain Steel Angle Iron.....	23.50	6.81
			<i>For >100 To 250, Deduct</i>	-0.68	
			<i>For >250 To 500, Deduct</i>	-1.27	
			<i>For >500 To 1,000, Deduct</i>	-2.08	
			<i>For >1,000, Deduct</i>	-2.90	
			<i>For 316 Stainless Steel, Add</i>	46.18	
			<i>For Aluminum, Add</i>	2.60	
			<i>For Galvanized Steel, Add</i>	8.95	
			<i>For 304 Stainless Steel, Add</i>	41.13	
			<i>For High Strength Steel (HSS), Add</i>	4.70	
05 12 23 00-0492	LF		4" x 3" x 1/2" Thick, Plain Steel Angle Iron.....	27.76	8.04
			<i>For >100 To 250, Deduct</i>	-0.80	
			<i>For >250 To 500, Deduct</i>	-1.50	
			<i>For >500 To 1,000, Deduct</i>	-2.46	
			<i>For >1,000, Deduct</i>	-3.42	
			<i>For 316 Stainless Steel, Add</i>	54.53	
			<i>For Aluminum, Add</i>	3.07	
			<i>For Galvanized Steel, Add</i>	10.56	
			<i>For 304 Stainless Steel, Add</i>	48.56	
			<i>For High Strength Steel (HSS), Add</i>	5.55	
05 12 23 00-0493	LF		4" x 3-1/2" x 1/2" Thick, Plain Steel Angle Iron	29.76	8.62
			<i>For >100 To 250, Deduct</i>	-0.86	
			<i>For >250 To 500, Deduct</i>	-1.61	
			<i>For >500 To 1,000, Deduct</i>	-2.64	
			<i>For >1,000, Deduct</i>	-3.67	
			<i>For 316 Stainless Steel, Add</i>	58.46	
			<i>For Aluminum, Add</i>	3.29	
			<i>For Galvanized Steel, Add</i>	11.33	
			<i>For 304 Stainless Steel, Add</i>	52.07	
			<i>For High Strength Steel (HSS), Add</i>	5.95	



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

05

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0494 LF 4" x 4" x 1/2" Thick, Plain Steel Angle Iron	32.01	9.27
For >100 To 250, Deduct	-0.93	
For >250 To 500, Deduct	-1.73	
For >500 To 1,000, Deduct	-2.84	
For >1,000, Deduct	-3.95	
For 316 Stainless Steel, Add	62.88	
For Aluminum, Add	3.54	
For Galvanized Steel, Add	12.18	
For 304 Stainless Steel, Add	56.00	
For High Strength Steel (HSS), Add	6.40	
05 12 23 00-0495 LF 5" x 3" x 1/2" Thick, Plain Steel Angle Iron	32.01	9.27
For >100 To 250, Deduct	-0.93	
For >250 To 500, Deduct	-1.73	
For >500 To 1,000, Deduct	-2.84	
For >1,000, Deduct	-3.95	
For 316 Stainless Steel, Add	62.88	
For Aluminum, Add	3.54	
For Galvanized Steel, Add	12.18	
For 304 Stainless Steel, Add	56.00	
For High Strength Steel (HSS), Add	6.40	
05 12 23 00-0496 LF 5" x 3-1/2" x 1/2" Thick, Plain Steel Angle Iron	34.01	9.85
For >100 To 250, Deduct	-0.98	
For >250 To 500, Deduct	-1.84	
For >500 To 1,000, Deduct	-3.01	
For >1,000, Deduct	-4.19	
For 316 Stainless Steel, Add	66.82	
For Aluminum, Add	3.76	
For Galvanized Steel, Add	12.95	
For 304 Stainless Steel, Add	59.51	
For High Strength Steel (HSS), Add	6.80	
05 12 23 00-0497 LF 5" x 5" x 1/2" Thick, Plain Steel Angle Iron	40.51	11.73
For >100 To 250, Deduct	-1.17	
For >250 To 500, Deduct	-2.19	
For >500 To 1,000, Deduct	-3.59	
For >1,000, Deduct	-4.99	
For 316 Stainless Steel, Add	79.58	
For Aluminum, Add	4.48	
For Galvanized Steel, Add	15.42	
For 304 Stainless Steel, Add	70.88	
For High Strength Steel (HSS), Add	8.10	
05 12 23 00-0498 LF 6" x 4" x 1/2" Thick, Plain Steel Angle Iron	40.51	11.73
For >100 To 250, Deduct	-1.17	
For >250 To 500, Deduct	-2.19	
For >500 To 1,000, Deduct	-3.59	
For >1,000, Deduct	-4.99	
For 316 Stainless Steel, Add	79.58	
For Aluminum, Add	4.48	
For Galvanized Steel, Add	15.42	
For 304 Stainless Steel, Add	70.88	
For High Strength Steel (HSS), Add	8.10	
05 12 23 00-0499 LF 6" x 6" x 1/2" Thick, Plain Steel Angle Iron	49.01	14.19
For >100 To 250, Deduct	-1.42	
For >250 To 500, Deduct	-2.65	
For >500 To 1,000, Deduct	-4.34	
For >1,000, Deduct	-6.04	
For 316 Stainless Steel, Add	96.26	
For Aluminum, Add	5.41	
For Galvanized Steel, Add	18.65	
For 304 Stainless Steel, Add	85.73	
For High Strength Steel (HSS), Add	9.80	
05 12 23 00-0500 LF 7" x 4" x 1/2" Thick, Plain Steel Angle Iron	44.75	12.96
For >100 To 250, Deduct	-1.30	
For >250 To 500, Deduct	-2.41	
For >500 To 1,000, Deduct	-3.97	
For >1,000, Deduct	-5.52	
For 316 Stainless Steel, Add	87.90	
For Aluminum, Add	4.94	
For Galvanized Steel, Add	17.03	
For 304 Stainless Steel, Add	78.29	
For High Strength Steel (HSS), Add	8.95	
05 12 23 00-0501 LF 8" x 4" x 1/2" Thick, Plain Steel Angle Iron	49.01	14.19
For >100 To 250, Deduct	-1.42	
For >250 To 500, Deduct	-2.65	
For >500 To 1,000, Deduct	-4.34	
For >1,000, Deduct	-6.04	
For 316 Stainless Steel, Add	96.26	
For Aluminum, Add	5.41	
For Galvanized Steel, Add	18.65	
For 304 Stainless Steel, Add	85.73	
For High Strength Steel (HSS), Add	9.80	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0502	LF		8" x 6" x 1/2" Thick, Plain Steel Angle Iron.....	57.52	16.66
			<i>For >100 To 250, Deduct</i>	-1.67	
			<i>For >250 To 500, Deduct</i>	-3.10	
			<i>For >500 To 1,000, Deduct</i>	-5.10	
			<i>For >1,000, Deduct</i>	-7.09	
			<i>For 316 Stainless Steel, Add</i>	112.99	
			<i>For Aluminum, Add</i>	6.36	
			<i>For Galvanized Steel, Add</i>	21.89	
			<i>For 304 Stainless Steel, Add</i>	100.63	
			<i>For High Strength Steel (HSS), Add</i>	11.50	
05 12 23 00-0503	LF		8" x 8" x 1/2" Thick, Plain Steel Angle Iron.....	66.00	19.12
			<i>For >100 To 250, Deduct</i>	-1.91	
			<i>For >250 To 500, Deduct</i>	-3.56	
			<i>For >500 To 1,000, Deduct</i>	-5.85	
			<i>For >1,000, Deduct</i>	-8.14	
			<i>For 316 Stainless Steel, Add</i>	129.63	
			<i>For Aluminum, Add</i>	7.29	
			<i>For Galvanized Steel, Add</i>	25.12	
			<i>For 304 Stainless Steel, Add</i>	115.45	
			<i>For High Strength Steel (HSS), Add</i>	13.20	
05 12 23 00-0504			5/8" Thick <small>(05 12 23 00-0412)</small>		
05 12 23 00-0505	LF		4" x 4" x 5/8" Thick, Plain Steel Angle Iron.....	38.27	10.63
			<i>For >100 To 250, Deduct</i>	-1.06	
			<i>For >250 To 500, Deduct</i>	-2.02	
			<i>For >500 To 1,000, Deduct</i>	-3.33	
			<i>For >1,000, Deduct</i>	-4.64	
			<i>For 316 Stainless Steel, Add</i>	77.12	
			<i>For Aluminum, Add</i>	4.34	
			<i>For Galvanized Steel, Add</i>	14.94	
			<i>For High Strength Steel (HSS), Add</i>	7.65	
05 12 23 00-0506	LF		5" x 3-1/2" x 5/8" Thick, Plain Steel Angle Iron	40.95	11.37
			<i>For >100 To 250, Deduct</i>	-1.14	
			<i>For >250 To 500, Deduct</i>	-2.16	
			<i>For >500 To 1,000, Deduct</i>	-3.56	
			<i>For >1,000, Deduct</i>	-4.97	
			<i>For 316 Stainless Steel, Add</i>	82.53	
			<i>For Aluminum, Add</i>	4.64	
			<i>For Galvanized Steel, Add</i>	15.99	
			<i>For High Strength Steel (HSS), Add</i>	8.19	
05 12 23 00-0507	LF		5" x 5" x 5/8" Thick, Plain Steel Angle Iron.....	48.74	13.54
			<i>For >100 To 250, Deduct</i>	-1.35	
			<i>For >250 To 500, Deduct</i>	-2.57	
			<i>For >500 To 1,000, Deduct</i>	-4.24	
			<i>For >1,000, Deduct</i>	-5.91	
			<i>For 316 Stainless Steel, Add</i>	98.21	
			<i>For Aluminum, Add</i>	5.52	
			<i>For Galvanized Steel, Add</i>	19.03	
			<i>For High Strength Steel (HSS), Add</i>	9.75	
05 12 23 00-0508	LF		6" x 4" x 5/8" Thick, Plain Steel Angle Iron.....	48.74	13.54
			<i>For >100 To 250, Deduct</i>	-1.35	
			<i>For >250 To 500, Deduct</i>	-2.57	
			<i>For >500 To 1,000, Deduct</i>	-4.24	
			<i>For >1,000, Deduct</i>	-5.91	
			<i>For 316 Stainless Steel, Add</i>	98.21	
			<i>For Aluminum, Add</i>	5.52	
			<i>For Galvanized Steel, Add</i>	19.03	
			<i>For High Strength Steel (HSS), Add</i>	9.75	
05 12 23 00-0509	LF		6" x 6" x 5/8" Thick, Plain Steel Angle Iron.....	58.99	16.38
			<i>For >100 To 250, Deduct</i>	-1.64	
			<i>For >250 To 500, Deduct</i>	-3.11	
			<i>For >500 To 1,000, Deduct</i>	-5.13	
			<i>For >1,000, Deduct</i>	-7.15	
			<i>For 316 Stainless Steel, Add</i>	118.88	
			<i>For Aluminum, Add</i>	6.69	
			<i>For Galvanized Steel, Add</i>	23.03	
			<i>For High Strength Steel (HSS), Add</i>	11.80	
05 12 23 00-0510	LF		7" x 4" x 5/8" Thick, Plain Steel Angle Iron.....	53.86	14.96
			<i>For >100 To 250, Deduct</i>	-1.50	
			<i>For >250 To 500, Deduct</i>	-2.84	
			<i>For >500 To 1,000, Deduct</i>	-4.69	
			<i>For >1,000, Deduct</i>	-6.53	
			<i>For 316 Stainless Steel, Add</i>	108.54	
			<i>For Aluminum, Add</i>	6.11	
			<i>For Galvanized Steel, Add</i>	21.03	
			<i>For High Strength Steel (HSS), Add</i>	10.77	
05 12 23 00-0511	LF		8" x 6" x 5/8" Thick, Plain Steel Angle Iron.....	69.46	19.29
			<i>For >100 To 250, Deduct</i>	-1.93	
			<i>For >250 To 500, Deduct</i>	-3.67	
			<i>For >500 To 1,000, Deduct</i>	-6.05	
			<i>For >1,000, Deduct</i>	-8.42	
			<i>For 316 Stainless Steel, Add</i>	139.97	
			<i>For Aluminum, Add</i>	7.87	
			<i>For Galvanized Steel, Add</i>	27.12	
			<i>For High Strength Steel (HSS), Add</i>	13.89	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0512 LF 8" x 8" x 5/8" Thick, Plain Steel Angle Iron	79.71	22.13
For >100 To 250, Deduct	-2.21	
For >250 To 500, Deduct	-4.21	
For >500 To 1,000, Deduct	-6.94	
For >1,000, Deduct	-9.67	
For 316 Stainless Steel, Add	160.64	
For Aluminum, Add	9.04	
For Galvanized Steel, Add	31.12	
For High Strength Steel (HSS), Add	15.94	
05 12 23 00-0513 3/4" Thick (05 12 23 00-0412)		
05 12 23 00-0514 LF 4" x 4" x 3/4" Thick, Plain Steel Angle Iron	44.07	11.74
For >100 To 250, Deduct	-1.17	
For >250 To 500, Deduct	-2.28	
For >500 To 1,000, Deduct	-3.77	
For >1,000, Deduct	-5.26	
For 316 Stainless Steel, Add	90.91	
For Aluminum, Add	5.11	
For Galvanized Steel, Add	17.61	
For High Strength Steel (HSS), Add	8.81	
05 12 23 00-0515 LF 5" x 3-1/2" x 3/4" Thick, Plain Steel Angle Iron	47.14	12.57
For >100 To 250, Deduct	-1.26	
For >250 To 500, Deduct	-2.43	
For >500 To 1,000, Deduct	-4.03	
For >1,000, Deduct	-5.63	
For 316 Stainless Steel, Add	97.25	
For Aluminum, Add	5.47	
For Galvanized Steel, Add	18.84	
For High Strength Steel (HSS), Add	9.43	
05 12 23 00-0516 LF 5" x 5" x 3/4" Thick, Plain Steel Angle Iron	56.19	14.98
For >100 To 250, Deduct	-1.50	
For >250 To 500, Deduct	-2.90	
For >500 To 1,000, Deduct	-4.81	
For >1,000, Deduct	-6.71	
For 316 Stainless Steel, Add	115.94	
For Aluminum, Add	6.52	
For Galvanized Steel, Add	22.46	
For High Strength Steel (HSS), Add	11.24	
05 12 23 00-0517 LF 6" x 4" x 3/4" Thick, Plain Steel Angle Iron	56.19	14.98
For >100 To 250, Deduct	-1.50	
For >250 To 500, Deduct	-2.90	
For >500 To 1,000, Deduct	-4.81	
For >1,000, Deduct	-6.71	
For 316 Stainless Steel, Add	115.94	
For Aluminum, Add	6.52	
For Galvanized Steel, Add	22.46	
For High Strength Steel (HSS), Add	11.24	
05 12 23 00-0518 LF 6" x 6" x 3/4" Thick, Plain Steel Angle Iron	68.33	18.21
For >100 To 250, Deduct	-1.82	
For >250 To 500, Deduct	-3.53	
For >500 To 1,000, Deduct	-5.84	
For >1,000, Deduct	-8.16	
For 316 Stainless Steel, Add	140.96	
For Aluminum, Add	7.93	
For Galvanized Steel, Add	27.31	
For High Strength Steel (HSS), Add	13.67	
05 12 23 00-0519 LF 7" x 4" x 3/4" Thick, Plain Steel Angle Iron	62.38	16.63
For >100 To 250, Deduct	-1.66	
For >250 To 500, Deduct	-3.22	
For >500 To 1,000, Deduct	-5.34	
For >1,000, Deduct	-7.45	
For 316 Stainless Steel, Add	128.67	
For Aluminum, Add	7.24	
For Galvanized Steel, Add	24.93	
For High Strength Steel (HSS), Add	12.48	
05 12 23 00-0520 LF 8" x 4" x 3/4" Thick, Plain Steel Angle Iron	68.33	18.21
For >100 To 250, Deduct	-1.82	
For >250 To 500, Deduct	-3.53	
For >500 To 1,000, Deduct	-5.84	
For >1,000, Deduct	-8.16	
For 316 Stainless Steel, Add	140.96	
For Aluminum, Add	7.93	
For Galvanized Steel, Add	27.31	
For High Strength Steel (HSS), Add	13.67	
05 12 23 00-0521 LF 8" x 6" x 3/4" Thick, Plain Steel Angle Iron	80.48	21.44
For >100 To 250, Deduct	-2.14	
For >250 To 500, Deduct	-4.16	
For >500 To 1,000, Deduct	-6.88	
For >1,000, Deduct	-9.61	
For 316 Stainless Steel, Add	166.05	
For Aluminum, Add	9.34	
For Galvanized Steel, Add	32.17	
For High Strength Steel (HSS), Add	16.10	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0522	LF		8" x 8" x 3/4" Thick, Plain Steel Angle Iron.....	92.62	24.69
			<i>For >100 To 250, Deduct</i>	-2.47	
			<i>For >250 To 500, Deduct</i>	-4.78	
			<i>For >500 To 1,000, Deduct</i>	-7.92	
			<i>For >1,000, Deduct</i>	-11.06	
			<i>For 316 Stainless Steel, Add</i>	191.07	
			<i>For Aluminum, Add</i>	10.75	
			<i>For Galvanized Steel, Add</i>	37.02	
			<i>For High Strength Steel (HSS), Add</i>	18.52	
05 12 23 00-0523			7/8" Thick (05 12 23 00-0412)		
05 12 23 00-0524	LF		5" x 5" x 7/8" Thick, Plain Steel Angle Iron.....	63.22	16.11
			<i>For >100 To 250, Deduct</i>	-1.61	
			<i>For >250 To 500, Deduct</i>	-3.19	
			<i>For >500 To 1,000, Deduct</i>	-5.31	
			<i>For >1,000, Deduct</i>	-7.43	
			<i>For 316 Stainless Steel, Add</i>	133.57	
			<i>For Aluminum, Add</i>	7.51	
			<i>For Galvanized Steel, Add</i>	25.88	
			<i>For High Strength Steel (HSS), Add</i>	12.64	
05 12 23 00-0525	LF		6" x 4" x 7/8" Thick, Plain Steel Angle Iron.....	63.22	16.11
			<i>For >100 To 250, Deduct</i>	-1.61	
			<i>For >250 To 500, Deduct</i>	-3.19	
			<i>For >500 To 1,000, Deduct</i>	-5.31	
			<i>For >1,000, Deduct</i>	-7.43	
			<i>For 316 Stainless Steel, Add</i>	133.57	
			<i>For Aluminum, Add</i>	7.51	
			<i>For Galvanized Steel, Add</i>	25.88	
			<i>For High Strength Steel (HSS), Add</i>	12.64	
05 12 23 00-0526	LF		6" x 6" x 7/8" Thick, Plain Steel Angle Iron.....	76.95	19.61
			<i>For >100 To 250, Deduct</i>	-1.96	
			<i>For >250 To 500, Deduct</i>	-3.88	
			<i>For >500 To 1,000, Deduct</i>	-6.46	
			<i>For >1,000, Deduct</i>	-9.04	
			<i>For 316 Stainless Steel, Add</i>	162.59	
			<i>For Aluminum, Add</i>	9.15	
			<i>For Galvanized Steel, Add</i>	31.50	
			<i>For High Strength Steel (HSS), Add</i>	15.39	
05 12 23 00-0527	LF		8" x 6" x 7/8" Thick, Plain Steel Angle Iron.....	90.89	23.16
			<i>For >100 To 250, Deduct</i>	-2.32	
			<i>For >250 To 500, Deduct</i>	-4.59	
			<i>For >500 To 1,000, Deduct</i>	-7.63	
			<i>For >1,000, Deduct</i>	-10.68	
			<i>For 316 Stainless Steel, Add</i>	192.06	
			<i>For Aluminum, Add</i>	10.80	
			<i>For Galvanized Steel, Add</i>	37.21	
			<i>For High Strength Steel (HSS), Add</i>	18.18	
05 12 23 00-0528	LF		8" x 8" x 7/8" Thick, Plain Steel Angle Iron.....	104.59	26.66
			<i>For >100 To 250, Deduct</i>	-2.66	
			<i>For >250 To 500, Deduct</i>	-5.28	
			<i>For >500 To 1,000, Deduct</i>	-8.78	
			<i>For >1,000, Deduct</i>	-12.29	
			<i>For 316 Stainless Steel, Add</i>	220.99	
			<i>For Aluminum, Add</i>	12.43	
			<i>For Galvanized Steel, Add</i>	42.82	
			<i>For High Strength Steel (HSS), Add</i>	20.92	
05 12 23 00-0529			Bar Channel (05 12 23 00-0411)		
05 12 23 00-0530	LF		1" x 1/2" x 1/8" Thick Bar Channel.....	5.23	
			<i>For 316 Stainless Steel, Add</i>	5.34	
			<i>For Aluminum, Add</i>	0.30	
			<i>For Galvanized Steel, Add</i>	1.04	
			<i>For 304 Stainless Steel, Add</i>	4.76	
			<i>For High Strength Steel (HSS), Add</i>	1.05	
05 12 23 00-0531	LF		1-1/4" x 1/2" x 1/8" Thick Bar Channel.....	5.87	
			<i>For 316 Stainless Steel, Add</i>	6.40	
			<i>For Aluminum, Add</i>	0.36	
			<i>For Galvanized Steel, Add</i>	1.24	
			<i>For 304 Stainless Steel, Add</i>	5.70	
			<i>For High Strength Steel (HSS), Add</i>	1.17	
05 12 23 00-0532	LF		1-1/2" x 1/2" x 1/8" Thick Bar Channel.....	6.40	
			<i>For 316 Stainless Steel, Add</i>	7.07	
			<i>For Aluminum, Add</i>	0.40	
			<i>For Galvanized Steel, Add</i>	1.37	
			<i>For 304 Stainless Steel, Add</i>	6.30	
			<i>For High Strength Steel (HSS), Add</i>	1.28	
05 12 23 00-0533	LF		1-1/2" x 3/4" x 1/8" Thick Bar Channel.....	7.32	
			<i>For 316 Stainless Steel, Add</i>	7.39	
			<i>For Aluminum, Add</i>	0.42	
			<i>For Galvanized Steel, Add</i>	1.43	
			<i>For 304 Stainless Steel, Add</i>	6.58	
			<i>For High Strength Steel (HSS), Add</i>	1.46	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0534 LF 2" x 1/2" x 1/8" Thick Bar Channel.....	7.84	
For 316 Stainless Steel, Add	9.06	
For Aluminum, Add	0.51	
For Galvanized Steel, Add	1.75	
For 304 Stainless Steel, Add	8.07	
05 12 23 00-0535 LF 2" x 1" x 1/8" Thick Bar Channel.....	10.31	
For 316 Stainless Steel, Add	10.11	
For Aluminum, Add	0.57	
For Galvanized Steel, Add	1.96	
For 304 Stainless Steel, Add	9.01	
05 12 23 00-0536 Channels - C <small>(05 12 23 00-0411)</small>		
05 12 23 00-0537 LF C2 x 1.78 - 2" Wide Channel	8.56	4.41
For >100 To 250, Deduct	-0.44	
For >250 To 500, Deduct	-0.66	
For >500 To 1,000, Deduct	-1.02	
For >1,000, Deduct	-1.38	
For 316 Stainless Steel, Add	8.58	
For Aluminum, Add	0.48	
For Galvanized Steel, Add	1.66	
For 304 Stainless Steel, Add	7.64	
05 12 23 00-0538 LF C3 x 4.1 - 3" Wide Channel	14.75	6.34
For >100 To 250, Deduct	-0.63	
For >250 To 500, Deduct	-1.00	
For >500 To 1,000, Deduct	-1.58	
For >1,000, Deduct	-2.16	
For 316 Stainless Steel, Add	20.13	
For Aluminum, Add	1.13	
For Galvanized Steel, Add	3.90	
For 304 Stainless Steel, Add	17.93	
05 12 23 00-0539 LF C3 x 5 - 3" Wide Channel	17.99	7.74
For >100 To 250, Deduct	-0.77	
For >250 To 500, Deduct	-1.22	
For >500 To 1,000, Deduct	-1.93	
For >1,000, Deduct	-2.64	
For 316 Stainless Steel, Add	24.54	
For Aluminum, Add	1.38	
For Galvanized Steel, Add	4.76	
For 304 Stainless Steel, Add	21.86	
05 12 23 00-0540 LF C3 x 6 - 3" Wide Channel	21.60	9.29
For >100 To 250, Deduct	-0.93	
For >250 To 500, Deduct	-1.47	
For >500 To 1,000, Deduct	-2.32	
For >1,000, Deduct	-3.17	
For 316 Stainless Steel, Add	29.47	
For Aluminum, Add	1.66	
For Galvanized Steel, Add	5.71	
For 304 Stainless Steel, Add	26.25	
05 12 23 00-0541 LF C4 x 5.4 - 4" Wide Channel	18.44	7.61
For >100 To 250, Deduct	-0.76	
For >250 To 500, Deduct	-1.22	
For >500 To 1,000, Deduct	-1.94	
For >1,000, Deduct	-2.65	
For 316 Stainless Steel, Add	26.53	
For Aluminum, Add	1.49	
For Galvanized Steel, Add	5.14	
For 304 Stainless Steel, Add	23.63	
05 12 23 00-0542 LF C4 x 7.25 - 4" Wide Channel	24.76	10.22
For >100 To 250, Deduct	-1.02	
For >250 To 500, Deduct	-1.64	
For >500 To 1,000, Deduct	-2.60	
For >1,000, Deduct	-3.56	
For 316 Stainless Steel, Add	35.62	
For Aluminum, Add	2.00	
For Galvanized Steel, Add	6.90	
For 304 Stainless Steel, Add	31.72	
05 12 23 00-0543 LF C5 x 6.7 - 5" Wide Channel	22.12	8.87
For >100 To 250, Deduct	-0.89	
For >250 To 500, Deduct	-1.44	
For >500 To 1,000, Deduct	-2.29	
For >1,000, Deduct	-3.14	
For 316 Stainless Steel, Add	32.90	
For Aluminum, Add	1.85	
For Galvanized Steel, Add	6.37	
For 304 Stainless Steel, Add	29.30	
05 12 23 00-0544 LF C5 x 9 - 5" Wide Channel	29.71	11.94
For >100 To 250, Deduct	-1.19	
For >250 To 500, Deduct	-1.94	
For >500 To 1,000, Deduct	-3.08	
For >1,000, Deduct	-4.22	
For 316 Stainless Steel, Add	44.19	
For Aluminum, Add	2.49	
For Galvanized Steel, Add	8.56	
For 304 Stainless Steel, Add	39.36	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0545	LF		C6 x 8.2 - 6" Wide Channel.....	26.79	10.66
			<i>For >100 To 250, Deduct</i>	-1.07	
			<i>For >250 To 500, Deduct</i>	-1.74	
			<i>For >500 To 1,000, Deduct</i>	-2.76	
			<i>For >1,000, Deduct</i>	-3.79	
			<i>For 316 Stainless Steel, Add</i>	40.26	
			<i>For Aluminum, Add</i>	2.26	
			<i>For Galvanized Steel, Add</i>	7.80	
			<i>For 304 Stainless Steel, Add</i>	35.85	
05 12 23 00-0546	LF		C6 x 10.5 - 6" Wide Channel.....	34.31	13.65
			<i>For >100 To 250, Deduct</i>	-1.37	
			<i>For >250 To 500, Deduct</i>	-2.22	
			<i>For >500 To 1,000, Deduct</i>	-3.54	
			<i>For >1,000, Deduct</i>	-4.85	
			<i>For 316 Stainless Steel, Add</i>	51.55	
			<i>For Aluminum, Add</i>	2.90	
			<i>For Galvanized Steel, Add</i>	9.99	
			<i>For 304 Stainless Steel, Add</i>	45.91	
05 12 23 00-0547	LF		C6 x 13 - 6" Wide Channel.....	42.49	16.90
			<i>For >100 To 250, Deduct</i>	-1.69	
			<i>For >250 To 500, Deduct</i>	-2.75	
			<i>For >500 To 1,000, Deduct</i>	-4.38	
			<i>For >1,000, Deduct</i>	-6.00	
			<i>For 316 Stainless Steel, Add</i>	63.84	
			<i>For Aluminum, Add</i>	3.59	
			<i>For Galvanized Steel, Add</i>	12.37	
			<i>For 304 Stainless Steel, Add</i>	56.86	
05 12 23 00-0548	LF		C7 x 9.8 - 7" Wide Channel.....	31.96	12.69
			<i>For >100 To 250, Deduct</i>	-1.27	
			<i>For >250 To 500, Deduct</i>	-2.07	
			<i>For >500 To 1,000, Deduct</i>	-3.29	
			<i>For >1,000, Deduct</i>	-4.51	
			<i>For 316 Stainless Steel, Add</i>	48.13	
			<i>For Aluminum, Add</i>	2.71	
			<i>For Galvanized Steel, Add</i>	9.32	
			<i>For 304 Stainless Steel, Add</i>	42.86	
05 12 23 00-0549	LF		C7 x 12.25 - 7" Wide Channel.....	39.95	15.86
			<i>For >100 To 250, Deduct</i>	-1.59	
			<i>For >250 To 500, Deduct</i>	-2.59	
			<i>For >500 To 1,000, Deduct</i>	-4.11	
			<i>For >1,000, Deduct</i>	-5.64	
			<i>For 316 Stainless Steel, Add</i>	60.16	
			<i>For Aluminum, Add</i>	3.38	
			<i>For Galvanized Steel, Add</i>	11.66	
			<i>For 304 Stainless Steel, Add</i>	53.58	
05 12 23 00-0550	LF		C7 x 14.75 - 7" Wide Channel.....	48.11	19.10
			<i>For >100 To 250, Deduct</i>	-1.91	
			<i>For >250 To 500, Deduct</i>	-3.11	
			<i>For >500 To 1,000, Deduct</i>	-4.95	
			<i>For >1,000, Deduct</i>	-6.79	
			<i>For 316 Stainless Steel, Add</i>	72.45	
			<i>For Aluminum, Add</i>	4.08	
			<i>For Galvanized Steel, Add</i>	14.04	
			<i>For 304 Stainless Steel, Add</i>	64.52	
05 12 23 00-0551	LF		C8 x 11.5 - 8" Wide Channel.....	36.26	13.96
			<i>For >100 To 250, Deduct</i>	-1.40	
			<i>For >250 To 500, Deduct</i>	-2.30	
			<i>For >500 To 1,000, Deduct</i>	-3.67	
			<i>For >1,000, Deduct</i>	-5.05	
			<i>For 316 Stainless Steel, Add</i>	56.48	
			<i>For Aluminum, Add</i>	3.18	
			<i>For Galvanized Steel, Add</i>	10.94	
			<i>For 304 Stainless Steel, Add</i>	50.30	
05 12 23 00-0552	LF		C8 x 13.75 - 8" Wide Channel.....	43.36	16.70
			<i>For >100 To 250, Deduct</i>	-1.67	
			<i>For >250 To 500, Deduct</i>	-2.75	
			<i>For >500 To 1,000, Deduct</i>	-4.39	
			<i>For >1,000, Deduct</i>	-6.03	
			<i>For 316 Stainless Steel, Add</i>	67.52	
			<i>For Aluminum, Add</i>	3.80	
			<i>For Galvanized Steel, Add</i>	13.08	
			<i>For 304 Stainless Steel, Add</i>	60.14	
05 12 23 00-0553	LF		C8 x 18.75 - 8" Wide Channel.....	59.12	22.76
			<i>For >100 To 250, Deduct</i>	-2.28	
			<i>For >250 To 500, Deduct</i>	-3.75	
			<i>For >500 To 1,000, Deduct</i>	-5.99	
			<i>For >1,000, Deduct</i>	-8.23	
			<i>For 316 Stainless Steel, Add</i>	92.06	
			<i>For Aluminum, Add</i>	5.18	
			<i>For Galvanized Steel, Add</i>	17.84	
			<i>For 304 Stainless Steel, Add</i>	81.99	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0554 LF C9 x 13.4 - 9" Wide Channel	42.25	16.27
For >100 To 250, Deduct	-1.63	
For >250 To 500, Deduct	-2.68	
For >500 To 1,000, Deduct	-4.28	
For >1,000, Deduct	-5.88	
For 316 Stainless Steel, Add	65.79	
For Aluminum, Add	3.70	
For Galvanized Steel, Add	12.75	
For 304 Stainless Steel, Add	58.60	
05 12 23 00-0555 LF C9 x 15 - 9" Wide Channel	47.29	18.21
For >100 To 250, Deduct	-1.82	
For >250 To 500, Deduct	-3.00	
For >500 To 1,000, Deduct	-4.79	
For >1,000, Deduct	-6.58	
For 316 Stainless Steel, Add	73.66	
For Aluminum, Add	4.14	
For Galvanized Steel, Add	14.27	
For 304 Stainless Steel, Add	65.61	
05 12 23 00-0556 LF C9 x 20 - 9" Wide Channel	63.06	24.27
For >100 To 250, Deduct	-2.43	
For >250 To 500, Deduct	-4.00	
For >500 To 1,000, Deduct	-6.39	
For >1,000, Deduct	-8.78	
For 316 Stainless Steel, Add	98.21	
For Aluminum, Add	5.52	
For Galvanized Steel, Add	19.03	
For 304 Stainless Steel, Add	87.47	
05 12 23 00-0557 LF C10 x 15.3 - 10" Wide Channel	48.24	18.57
For >100 To 250, Deduct	-1.86	
For >250 To 500, Deduct	-3.06	
For >500 To 1,000, Deduct	-4.89	
For >1,000, Deduct	-6.71	
For 316 Stainless Steel, Add	75.14	
For Aluminum, Add	4.23	
For Galvanized Steel, Add	14.56	
For 304 Stainless Steel, Add	66.92	
05 12 23 00-0558 LF C10 x 20 - 10" Wide Channel	63.06	24.27
For >100 To 250, Deduct	-2.43	
For >250 To 500, Deduct	-4.00	
For >500 To 1,000, Deduct	-6.39	
For >1,000, Deduct	-8.78	
For 316 Stainless Steel, Add	98.21	
For Aluminum, Add	5.52	
For Galvanized Steel, Add	19.03	
For 304 Stainless Steel, Add	87.47	
05 12 23 00-0559 LF C10 x 25 - 10" Wide Channel	78.84	30.35
For >100 To 250, Deduct	-3.04	
For >250 To 500, Deduct	-5.01	
For >500 To 1,000, Deduct	-7.99	
For >1,000, Deduct	-10.97	
For 316 Stainless Steel, Add	122.78	
For Aluminum, Add	6.91	
For Galvanized Steel, Add	23.79	
For 304 Stainless Steel, Add	109.35	
05 12 23 00-0560 LF C10 x 30 - 10" Wide Channel	94.60	36.41
For >100 To 250, Deduct	-3.64	
For >250 To 500, Deduct	-6.01	
For >500 To 1,000, Deduct	-9.59	
For >1,000, Deduct	-13.17	
For 316 Stainless Steel, Add	147.33	
For Aluminum, Add	8.29	
For Galvanized Steel, Add	28.54	
For 304 Stainless Steel, Add	131.21	
05 12 23 00-0561 LF C12 x 20.7 - 12" Wide Channel	65.27	25.13
For >100 To 250, Deduct	-2.51	
For >250 To 500, Deduct	-4.14	
For >500 To 1,000, Deduct	-6.61	
For >1,000, Deduct	-9.08	
For 316 Stainless Steel, Add	101.66	
For Aluminum, Add	5.72	
For Galvanized Steel, Add	19.70	
For 304 Stainless Steel, Add	90.54	
05 12 23 00-0562 LF C12 x 25 - 12" Wide Channel	78.84	30.35
For >100 To 250, Deduct	-3.04	
For >250 To 500, Deduct	-5.01	
For >500 To 1,000, Deduct	-7.99	
For >1,000, Deduct	-10.97	
For 316 Stainless Steel, Add	122.78	
For Aluminum, Add	6.91	
For Galvanized Steel, Add	23.79	
For 304 Stainless Steel, Add	109.35	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0563	LF		C12 x 30 - 12" Wide Channel.....	94.60	36.41
			<i>For >100 To 250, Deduct</i>	-3.64	
			<i>For >250 To 500, Deduct</i>	-6.01	
			<i>For >500 To 1,000, Deduct</i>	-9.59	
			<i>For >1,000, Deduct</i>	-13.17	
			<i>For 316 Stainless Steel, Add</i>	147.33	
			<i>For Aluminum, Add</i>	8.29	
			<i>For Galvanized Steel, Add</i>	28.54	
			<i>For 304 Stainless Steel, Add</i>	131.21	
05 12 23 00-0564	LF		C15 x 33.9 - 15" Wide Channel.....	106.89	41.15
			<i>For >100 To 250, Deduct</i>	-4.12	
			<i>For >250 To 500, Deduct</i>	-6.79	
			<i>For >500 To 1,000, Deduct</i>	-10.83	
			<i>For >1,000, Deduct</i>	-14.88	
			<i>For 316 Stainless Steel, Add</i>	166.46	
			<i>For Aluminum, Add</i>	9.36	
			<i>For Galvanized Steel, Add</i>	32.25	
			<i>For 304 Stainless Steel, Add</i>	148.26	
05 12 23 00-0565	LF		C15 x 40 - 15" Wide Channel.....	126.13	48.56
			<i>For >100 To 250, Deduct</i>	-4.86	
			<i>For >250 To 500, Deduct</i>	-8.01	
			<i>For >500 To 1,000, Deduct</i>	-12.78	
			<i>For >1,000, Deduct</i>	-17.55	
			<i>For 316 Stainless Steel, Add</i>	196.45	
			<i>For Aluminum, Add</i>	11.05	
			<i>For Galvanized Steel, Add</i>	38.06	
			<i>For 304 Stainless Steel, Add</i>	174.96	
05 12 23 00-0566	LF		C15 x 50 - 15" Wide Channel.....	157.66	60.69
			<i>For >100 To 250, Deduct</i>	-6.07	
			<i>For >250 To 500, Deduct</i>	-10.01	
			<i>For >500 To 1,000, Deduct</i>	-15.98	
			<i>For >1,000, Deduct</i>	-21.94	
			<i>For 316 Stainless Steel, Add</i>	245.54	
			<i>For Aluminum, Add</i>	13.81	
			<i>For Galvanized Steel, Add</i>	47.57	
			<i>For 304 Stainless Steel, Add</i>	218.68	
05 12 23 00-0567			Miscellaneous Channels - MC <small>(05 12 23 00-0411)</small>		
05 12 23 00-0568	LF		MC6 x 12 - 6" Wide Channel.....	39.22	15.60
			<i>For >100 To 250, Deduct</i>	-1.56	
			<i>For >250 To 500, Deduct</i>	-2.54	
			<i>For >500 To 1,000, Deduct</i>	-4.04	
			<i>For >1,000, Deduct</i>	-5.54	
			<i>For 316 Stainless Steel, Add</i>	58.94	
			<i>For Aluminum, Add</i>	3.32	
			<i>For Galvanized Steel, Add</i>	11.42	
			<i>For 304 Stainless Steel, Add</i>	52.50	
05 12 23 00-0569	LF		MC6 x 15.1 - 6" Wide Channel.....	49.34	19.63
			<i>For >100 To 250, Deduct</i>	-1.96	
			<i>For >250 To 500, Deduct</i>	-3.20	
			<i>For >500 To 1,000, Deduct</i>	-5.08	
			<i>For >1,000, Deduct</i>	-6.97	
			<i>For 316 Stainless Steel, Add</i>	74.14	
			<i>For Aluminum, Add</i>	4.17	
			<i>For Galvanized Steel, Add</i>	14.37	
			<i>For 304 Stainless Steel, Add</i>	66.03	
05 12 23 00-0570	LF		MC6 x 15.3 - 6" Wide Channel.....	50.00	19.89
			<i>For >100 To 250, Deduct</i>	-1.99	
			<i>For >250 To 500, Deduct</i>	-3.24	
			<i>For >500 To 1,000, Deduct</i>	-5.15	
			<i>For >1,000, Deduct</i>	-7.07	
			<i>For 316 Stainless Steel, Add</i>	75.14	
			<i>For Aluminum, Add</i>	4.23	
			<i>For Galvanized Steel, Add</i>	14.56	
			<i>For 304 Stainless Steel, Add</i>	66.92	
05 12 23 00-0571	LF		MC6 x 16.3 - 6" Wide Channel.....	53.27	21.18
			<i>For >100 To 250, Deduct</i>	-2.12	
			<i>For >250 To 500, Deduct</i>	-3.45	
			<i>For >500 To 1,000, Deduct</i>	-5.49	
			<i>For >1,000, Deduct</i>	-7.53	
			<i>For 316 Stainless Steel, Add</i>	80.03	
			<i>For Aluminum, Add</i>	4.50	
			<i>For Galvanized Steel, Add</i>	15.51	
			<i>For 304 Stainless Steel, Add</i>	71.28	
05 12 23 00-0572	LF		MC6 x 18 - 6" Wide Channel.....	58.82	23.40
			<i>For >100 To 250, Deduct</i>	-2.34	
			<i>For >250 To 500, Deduct</i>	-3.81	
			<i>For >500 To 1,000, Deduct</i>	-6.06	
			<i>For >1,000, Deduct</i>	-8.31	
			<i>For 316 Stainless Steel, Add</i>	88.38	
			<i>For Aluminum, Add</i>	4.97	
			<i>For Galvanized Steel, Add</i>	17.12	
			<i>For 304 Stainless Steel, Add</i>	78.72	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0573 LF MC7 x 17.6 - 7" Wide Channel	57.40	22.80
For >100 To 250, Deduct	-2.28	
For >250 To 500, Deduct	-3.71	
For >500 To 1,000, Deduct	-5.91	
For >1,000, Deduct	-8.10	
For 316 Stainless Steel, Add	86.43	
For Aluminum, Add	4.86	
For Galvanized Steel, Add	16.75	
For 304 Stainless Steel, Add	76.98	
05 12 23 00-0574 LF MC7 x 19.1 - 7" Wide Channel	62.30	24.74
For >100 To 250, Deduct	-2.47	
For >250 To 500, Deduct	-4.03	
For >500 To 1,000, Deduct	-6.41	
For >1,000, Deduct	-8.80	
For 316 Stainless Steel, Add	93.79	
For Aluminum, Add	5.28	
For Galvanized Steel, Add	18.17	
For 304 Stainless Steel, Add	83.53	
05 12 23 00-0575 LF MC7 x 22.7 - 7" Wide Channel	74.04	29.40
For >100 To 250, Deduct	-2.94	
For >250 To 500, Deduct	-4.79	
For >500 To 1,000, Deduct	-7.62	
For >1,000, Deduct	-10.45	
For 316 Stainless Steel, Add	111.49	
For Aluminum, Add	6.27	
For Galvanized Steel, Add	21.60	
For 304 Stainless Steel, Add	99.29	
05 12 23 00-0576 LF MC8 x 8.5 - 8" Wide Channel	26.80	10.32
For >100 To 250, Deduct	-1.03	
For >250 To 500, Deduct	-1.70	
For >500 To 1,000, Deduct	-2.72	
For >1,000, Deduct	-3.73	
For 316 Stainless Steel, Add	41.73	
For Aluminum, Add	2.35	
For Galvanized Steel, Add	8.08	
For 304 Stainless Steel, Add	37.16	
05 12 23 00-0577 LF MC8 x 18.7 - 8" Wide Channel	58.97	22.69
For >100 To 250, Deduct	-2.27	
For >250 To 500, Deduct	-3.74	
For >500 To 1,000, Deduct	-5.98	
For >1,000, Deduct	-8.21	
For 316 Stainless Steel, Add	91.84	
For Aluminum, Add	5.17	
For Galvanized Steel, Add	17.79	
For 304 Stainless Steel, Add	81.80	
05 12 23 00-0578 LF MC8 x 20 - 8" Wide Channel	63.06	24.27
For >100 To 250, Deduct	-2.43	
For >250 To 500, Deduct	-4.00	
For >500 To 1,000, Deduct	-6.39	
For >1,000, Deduct	-8.78	
For 316 Stainless Steel, Add	98.21	
For Aluminum, Add	5.52	
For Galvanized Steel, Add	19.03	
For 304 Stainless Steel, Add	87.47	
05 12 23 00-0579 LF MC8 x 21.4 - 8" Wide Channel	67.49	25.98
For >100 To 250, Deduct	-2.60	
For >250 To 500, Deduct	-4.29	
For >500 To 1,000, Deduct	-6.84	
For >1,000, Deduct	-9.39	
For 316 Stainless Steel, Add	105.09	
For Aluminum, Add	5.91	
For Galvanized Steel, Add	20.36	
For 304 Stainless Steel, Add	93.59	
05 12 23 00-0580 LF MC8 x 22.8 - 8" Wide Channel	71.89	27.69
For >100 To 250, Deduct	-2.77	
For >250 To 500, Deduct	-4.56	
For >500 To 1,000, Deduct	-7.28	
For >1,000, Deduct	-10.00	
For 316 Stainless Steel, Add	111.97	
For Aluminum, Add	6.30	
For Galvanized Steel, Add	21.69	
For 304 Stainless Steel, Add	99.72	
05 12 23 00-0581 LF MC9 x 23.9 - 9" Wide Channel	75.37	29.02
For >100 To 250, Deduct	-2.90	
For >250 To 500, Deduct	-4.79	
For >500 To 1,000, Deduct	-7.64	
For >1,000, Deduct	-10.49	
For 316 Stainless Steel, Add	117.38	
For Aluminum, Add	6.60	
For Galvanized Steel, Add	22.74	
For 304 Stainless Steel, Add	104.54	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0582	LF		MC9 x 25.4 - 9" Wide Channel.....	80.08	30.83
			<i>For >100 To 250, Deduct</i>	-3.08	
			<i>For >250 To 500, Deduct</i>	-5.08	
			<i>For >500 To 1,000, Deduct</i>	-8.11	
			<i>For >1,000, Deduct</i>	-11.14	
			<i>For 316 Stainless Steel, Add</i>	124.74	
			<i>For Aluminum, Add</i>	7.02	
			<i>For Galvanized Steel, Add</i>	24.17	
			<i>For 304 Stainless Steel, Add</i>	111.09	
05 12 23 00-0583	LF		MC10 x 6.5 - 10" Wide Channel.....	20.51	7.89
			<i>For >100 To 250, Deduct</i>	-0.79	
			<i>For >250 To 500, Deduct</i>	-1.30	
			<i>For >500 To 1,000, Deduct</i>	-2.08	
			<i>For >1,000, Deduct</i>	-2.85	
			<i>For 316 Stainless Steel, Add</i>	31.94	
			<i>For Aluminum, Add</i>	1.80	
			<i>For Galvanized Steel, Add</i>	6.19	
			<i>For 304 Stainless Steel, Add</i>	28.44	
05 12 23 00-0584	LF		MC10 x 8.4 - 10" Wide Channel.....	26.49	10.19
			<i>For >100 To 250, Deduct</i>	-1.02	
			<i>For >250 To 500, Deduct</i>	-1.68	
			<i>For >500 To 1,000, Deduct</i>	-2.68	
			<i>For >1,000, Deduct</i>	-3.69	
			<i>For 316 Stainless Steel, Add</i>	41.25	
			<i>For Aluminum, Add</i>	2.32	
			<i>For Galvanized Steel, Add</i>	7.99	
			<i>For 304 Stainless Steel, Add</i>	36.74	
05 12 23 00-0585	LF		MC10 x 21.9 - 10" Wide Channel.....	69.05	26.59
			<i>For >100 To 250, Deduct</i>	-2.66	
			<i>For >250 To 500, Deduct</i>	-4.38	
			<i>For >500 To 1,000, Deduct</i>	-7.00	
			<i>For >1,000, Deduct</i>	-9.61	
			<i>For 316 Stainless Steel, Add</i>	107.55	
			<i>For Aluminum, Add</i>	6.05	
			<i>For Galvanized Steel, Add</i>	20.84	
			<i>For 304 Stainless Steel, Add</i>	95.79	
05 12 23 00-0586	LF		MC10 x 24.9 - 10" Wide Channel.....	78.52	30.24
			<i>For >100 To 250, Deduct</i>	-3.02	
			<i>For >250 To 500, Deduct</i>	-4.99	
			<i>For >500 To 1,000, Deduct</i>	-7.96	
			<i>For >1,000, Deduct</i>	-10.93	
			<i>For 316 Stainless Steel, Add</i>	122.27	
			<i>For Aluminum, Add</i>	6.88	
			<i>For Galvanized Steel, Add</i>	23.69	
			<i>For 304 Stainless Steel, Add</i>	108.90	
05 12 23 00-0587	LF		MC10 x 25.3 - 10" Wide Channel.....	79.78	30.72
			<i>For >100 To 250, Deduct</i>	-3.07	
			<i>For >250 To 500, Deduct</i>	-5.07	
			<i>For >500 To 1,000, Deduct</i>	-8.08	
			<i>For >1,000, Deduct</i>	-11.10	
			<i>For 316 Stainless Steel, Add</i>	124.26	
			<i>For Aluminum, Add</i>	6.99	
			<i>For Galvanized Steel, Add</i>	24.07	
			<i>For 304 Stainless Steel, Add</i>	110.67	
05 12 23 00-0588	LF		MC10 x 28.3 - 10" Wide Channel.....	89.24	34.35
			<i>For >100 To 250, Deduct</i>	-3.44	
			<i>For >250 To 500, Deduct</i>	-5.67	
			<i>For >500 To 1,000, Deduct</i>	-9.04	
			<i>For >1,000, Deduct</i>	-12.42	
			<i>For 316 Stainless Steel, Add</i>	138.98	
			<i>For Aluminum, Add</i>	7.82	
			<i>For Galvanized Steel, Add</i>	26.93	
			<i>For 304 Stainless Steel, Add</i>	123.78	
05 12 23 00-0589	LF		MC10 x 28.5 - 10" Wide Channel.....	89.87	34.60
			<i>For >100 To 250, Deduct</i>	-3.46	
			<i>For >250 To 500, Deduct</i>	-5.71	
			<i>For >500 To 1,000, Deduct</i>	-9.11	
			<i>For >1,000, Deduct</i>	-12.51	
			<i>For 316 Stainless Steel, Add</i>	139.97	
			<i>For Aluminum, Add</i>	7.87	
			<i>For Galvanized Steel, Add</i>	27.12	
			<i>For 304 Stainless Steel, Add</i>	124.66	
05 12 23 00-0590	LF		MC10 x 33.6 - 10" Wide Channel.....	105.95	40.79
			<i>For >100 To 250, Deduct</i>	-4.08	
			<i>For >250 To 500, Deduct</i>	-6.73	
			<i>For >500 To 1,000, Deduct</i>	-10.74	
			<i>For >1,000, Deduct</i>	-14.75	
			<i>For 316 Stainless Steel, Add</i>	164.99	
			<i>For Aluminum, Add</i>	9.28	
			<i>For Galvanized Steel, Add</i>	31.97	
			<i>For 304 Stainless Steel, Add</i>	146.95	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0591 LF MC10 x 41.1 - 10" Wide Channel	129.59	49.90
For >100 To 250, Deduct	-4.99	
For >250 To 500, Deduct	-8.23	
For >500 To 1,000, Deduct	-13.13	
For >1,000, Deduct	-18.03	
For 316 Stainless Steel, Add	201.82	
For Aluminum, Add	11.35	
For Galvanized Steel, Add	39.10	
For 304 Stainless Steel, Add	179.75	
05 12 23 00-0592 LF MC12 x 30.9 - 12" Wide Channel	97.44	37.51
For >100 To 250, Deduct	-3.75	
For >250 To 500, Deduct	-6.19	
For >500 To 1,000, Deduct	-9.87	
For >1,000, Deduct	-13.56	
For 316 Stainless Steel, Add	151.74	
For Aluminum, Add	8.54	
For Galvanized Steel, Add	29.40	
For 304 Stainless Steel, Add	135.15	
05 12 23 00-0593 LF MC12 x 32.9 - 12" Wide Channel	103.75	39.93
For >100 To 250, Deduct	-3.99	
For >250 To 500, Deduct	-6.59	
For >500 To 1,000, Deduct	-10.51	
For >1,000, Deduct	-14.44	
For 316 Stainless Steel, Add	161.57	
For Aluminum, Add	9.09	
For Galvanized Steel, Add	31.30	
For 304 Stainless Steel, Add	143.90	
05 12 23 00-0594 LF MC12 x 35 - 12" Wide Channel	110.36	42.48
For >100 To 250, Deduct	-4.25	
For >250 To 500, Deduct	-7.01	
For >500 To 1,000, Deduct	-11.18	
For >1,000, Deduct	-15.36	
For 316 Stainless Steel, Add	171.87	
For Aluminum, Add	9.67	
For Galvanized Steel, Add	33.30	
For 304 Stainless Steel, Add	153.07	
05 12 23 00-0595 LF MC12 x 37 - 12" Wide Channel	116.67	44.92
For >100 To 250, Deduct	-4.49	
For >250 To 500, Deduct	-7.41	
For >500 To 1,000, Deduct	-11.82	
For >1,000, Deduct	-16.24	
For 316 Stainless Steel, Add	181.70	
For Aluminum, Add	10.22	
For Galvanized Steel, Add	35.20	
For 304 Stainless Steel, Add	161.82	
05 12 23 00-0596 LF MC12 x 40 - 12" Wide Channel	126.13	48.56
For >100 To 250, Deduct	-4.86	
For >250 To 500, Deduct	-8.01	
For >500 To 1,000, Deduct	-12.78	
For >1,000, Deduct	-17.55	
For 316 Stainless Steel, Add	196.45	
For Aluminum, Add	11.05	
For Galvanized Steel, Add	38.06	
For 304 Stainless Steel, Add	174.96	
05 12 23 00-0597 LF MC12 x 45 - 12" Wide Channel	141.90	54.63
For >100 To 250, Deduct	-5.46	
For >250 To 500, Deduct	-9.01	
For >500 To 1,000, Deduct	-14.38	
For >1,000, Deduct	-19.75	
For 316 Stainless Steel, Add	220.99	
For Aluminum, Add	12.43	
For Galvanized Steel, Add	42.82	
For 304 Stainless Steel, Add	196.82	
05 12 23 00-0598 LF MC12 x 50 - 12" Wide Channel	157.66	60.70
For >100 To 250, Deduct	-6.07	
For >250 To 500, Deduct	-10.01	
For >500 To 1,000, Deduct	-15.98	
For >1,000, Deduct	-21.94	
For 316 Stainless Steel, Add	245.54	
For Aluminum, Add	13.81	
For Galvanized Steel, Add	47.57	
For 304 Stainless Steel, Add	218.68	
05 12 23 00-0599 LF MC13 x 31.8 - 13" Wide Channel	100.28	38.61
For >100 To 250, Deduct	-3.86	
For >250 To 500, Deduct	-6.37	
For >500 To 1,000, Deduct	-10.16	
For >1,000, Deduct	-13.96	
For 316 Stainless Steel, Add	156.16	
For Aluminum, Add	8.78	
For Galvanized Steel, Add	30.26	
For 304 Stainless Steel, Add	139.08	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0600	LF		MC13 x 35 - 13" Wide Channel.....	110.36	42.48
			<i>For >100 To 250, Deduct</i>	-4.25	
			<i>For >250 To 500, Deduct</i>	-7.01	
			<i>For >500 To 1,000, Deduct</i>	-11.18	
			<i>For >1,000, Deduct</i>	-15.36	
			<i>For 316 Stainless Steel, Add</i>	171.87	
			<i>For Aluminum, Add</i>	9.67	
			<i>For Galvanized Steel, Add</i>	33.30	
			<i>For 304 Stainless Steel, Add</i>	153.07	
05 12 23 00-0601	LF		MC13 x 40 - 13" Wide Channel.....	126.13	48.56
			<i>For >100 To 250, Deduct</i>	-4.86	
			<i>For >250 To 500, Deduct</i>	-8.01	
			<i>For >500 To 1,000, Deduct</i>	-12.78	
			<i>For >1,000, Deduct</i>	-17.55	
			<i>For 316 Stainless Steel, Add</i>	196.45	
			<i>For Aluminum, Add</i>	11.05	
			<i>For Galvanized Steel, Add</i>	38.06	
			<i>For 304 Stainless Steel, Add</i>	174.96	
05 12 23 00-0602	LF		MC13 x 50 - 13" Wide Channel.....	157.66	60.70
			<i>For >100 To 250, Deduct</i>	-6.07	
			<i>For >250 To 500, Deduct</i>	-10.01	
			<i>For >500 To 1,000, Deduct</i>	-15.98	
			<i>For >1,000, Deduct</i>	-21.94	
			<i>For 316 Stainless Steel, Add</i>	245.54	
			<i>For Aluminum, Add</i>	13.81	
			<i>For Galvanized Steel, Add</i>	47.57	
			<i>For 304 Stainless Steel, Add</i>	218.68	
05 12 23 00-0603	LF		MC18 x 42.7 - 18" Wide Channel.....	134.64	51.83
			<i>For >100 To 250, Deduct</i>	-5.18	
			<i>For >250 To 500, Deduct</i>	-8.55	
			<i>For >500 To 1,000, Deduct</i>	-13.64	
			<i>For >1,000, Deduct</i>	-18.74	
			<i>For 316 Stainless Steel, Add</i>	209.70	
			<i>For Aluminum, Add</i>	11.80	
			<i>For Galvanized Steel, Add</i>	40.63	
			<i>For 304 Stainless Steel, Add</i>	186.76	
05 12 23 00-0604	LF		MC18 x 45.8 - 18" Wide Channel.....	144.42	55.61
			<i>For >100 To 250, Deduct</i>	-5.56	
			<i>For >250 To 500, Deduct</i>	-9.17	
			<i>For >500 To 1,000, Deduct</i>	-14.63	
			<i>For >1,000, Deduct</i>	-20.10	
			<i>For 316 Stainless Steel, Add</i>	224.93	
			<i>For Aluminum, Add</i>	12.65	
			<i>For Galvanized Steel, Add</i>	43.58	
			<i>For 304 Stainless Steel, Add</i>	200.33	
05 12 23 00-0605	LF		MC18 x 51.9 - 18" Wide Channel.....	163.66	63.00
			<i>For >100 To 250, Deduct</i>	-6.30	
			<i>For >250 To 500, Deduct</i>	-10.39	
			<i>For >500 To 1,000, Deduct</i>	-16.58	
			<i>For >1,000, Deduct</i>	-22.78	
			<i>For 316 Stainless Steel, Add</i>	254.88	
			<i>For Aluminum, Add</i>	14.34	
			<i>For Galvanized Steel, Add</i>	49.38	
			<i>For 304 Stainless Steel, Add</i>	227.00	
05 12 23 00-0606	LF		MC18 x 58 - 18" Wide Channel.....	182.89	70.40
			<i>For >100 To 250, Deduct</i>	-7.04	
			<i>For >250 To 500, Deduct</i>	-11.61	
			<i>For >500 To 1,000, Deduct</i>	-18.53	
			<i>For >1,000, Deduct</i>	-25.45	
			<i>For 316 Stainless Steel, Add</i>	284.83	
			<i>For Aluminum, Add</i>	16.02	
			<i>For Galvanized Steel, Add</i>	55.19	
			<i>For 304 Stainless Steel, Add</i>	253.68	
05 12 23 00-0607			Structural Bar Tees (05 12 23 00-0411)		
05 12 23 00-0608	LF		3/4" x 3/4" x 1/8" Structural Bar Tee	5.55	3.23
			<i>For >100 To 250, Deduct</i>	-0.32	
			<i>For >250 To 500, Deduct</i>	-0.46	
			<i>For >500 To 1,000, Deduct</i>	-0.71	
			<i>For >1,000, Deduct</i>	-0.96	
			<i>For 316 Stainless Steel, Add</i>	3.97	
			<i>For Aluminum, Add</i>	0.22	
			<i>For Galvanized Steel, Add</i>	0.77	
			<i>For 304 Stainless Steel, Add</i>	3.53	
05 12 23 00-0609	LF		1" x 1" x 1/8" Structural Bar Tee	6.78	3.81
			<i>For >100 To 250, Deduct</i>	-0.38	
			<i>For >250 To 500, Deduct</i>	-0.55	
			<i>For >500 To 1,000, Deduct</i>	-0.85	
			<i>For >1,000, Deduct</i>	-1.14	
			<i>For 316 Stainless Steel, Add</i>	5.44	
			<i>For Aluminum, Add</i>	0.31	
			<i>For Galvanized Steel, Add</i>	1.05	
			<i>For 304 Stainless Steel, Add</i>	4.85	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0610 LF 1-1/2" x 1-1/2" x 1/4" Structural Bar Tee	10.73	4.40
For >100 To 250, Deduct	-0.44	
For >250 To 500, Deduct	-0.71	
For >500 To 1,000, Deduct	-1.12	
For >1,000, Deduct	-1.54	
For 316 Stainless Steel, Add	15.58	
For Aluminum, Add	0.88	
For Galvanized Steel, Add	3.02	
For 304 Stainless Steel, Add	13.88	
05 12 23 00-0611 LF 2" x 2" x 1/4" Structural Bar Tee	14.91	5.75
For >100 To 250, Deduct	-0.57	
For >250 To 500, Deduct	-0.95	
For >500 To 1,000, Deduct	-1.51	
For >1,000, Deduct	-2.08	
For 316 Stainless Steel, Add	23.20	
For Aluminum, Add	1.31	
For Galvanized Steel, Add	4.50	
For 304 Stainless Steel, Add	20.66	
05 12 23 00-0612 LF 2-1/2" x 2-1/2" x 3/8" Structural Bar Tee	22.27	6.94
For >100 To 250, Deduct	-0.69	
For >250 To 500, Deduct	-1.25	
For >500 To 1,000, Deduct	-2.04	
For >1,000, Deduct	-2.83	
For 316 Stainless Steel, Add	41.63	
For Aluminum, Add	2.34	
For Galvanized Steel, Add	8.07	
For 304 Stainless Steel, Add	37.08	
05 12 23 00-0613 LF 3" x 3" x 3/8" Structural Bar Tee	27.46	8.88
For >100 To 250, Deduct	-0.89	
For >250 To 500, Deduct	-1.57	
For >500 To 1,000, Deduct	-2.56	
For >1,000, Deduct	-3.54	
For 316 Stainless Steel, Add	49.98	
For Aluminum, Add	2.81	
For Galvanized Steel, Add	9.68	
For 304 Stainless Steel, Add	44.52	
05 12 23 00-0614 Structural Zees <small>(05 12 23 00-0411)</small>		
05 12 23 00-0615 LF 1-1/4" x 1-3/4" x 1-3/4" x 3/16" Structural Zee	13.11	4.40
For >100 To 250, Deduct	-0.44	
For >250 To 500, Deduct	-0.77	
For >500 To 1,000, Deduct	-1.24	
For >1,000, Deduct	-1.72	
For 316 Stainless Steel, Add	23.20	
For Aluminum, Add	1.31	
For Galvanized Steel, Add	4.50	
For 304 Stainless Steel, Add	20.66	
05 12 23 00-0616 LF 2-11/16" x 3" x 2-11/16" x 1/4" Structural Zee	24.35	5.25
For >100 To 250, Deduct	-0.52	
For >250 To 500, Deduct	-1.13	
For >500 To 1,000, Deduct	-1.92	
For >1,000, Deduct	-2.70	
For 316 Stainless Steel, Add	55.55	
For Aluminum, Add	3.12	
For Galvanized Steel, Add	10.76	
For 304 Stainless Steel, Add	49.48	
05 12 23 00-0617 LF 3-1/16" x 4" x 3-1/16" x 1/4" Structural Zee	29.15	5.92
For >100 To 250, Deduct	-0.59	
For >250 To 500, Deduct	-1.32	
For >500 To 1,000, Deduct	-2.25	
For >1,000, Deduct	-3.17	
For 316 Stainless Steel, Add	68.00	
For Aluminum, Add	3.83	
For Galvanized Steel, Add	13.18	
For 304 Stainless Steel, Add	60.56	
05 12 23 00-0618 LF 3-1/4" x 5" x 3-1/4" x 5/16" Structural Zee	39.08	6.77
For >100 To 250, Deduct	-0.68	
For >250 To 500, Deduct	-1.65	
For >500 To 1,000, Deduct	-2.86	
For >1,000, Deduct	-4.06	
For 316 Stainless Steel, Add	96.19	
For Aluminum, Add	5.41	
For Galvanized Steel, Add	18.64	
For 304 Stainless Steel, Add	85.67	
05 12 23 00-0619 LF 3-1/2" x 6" x 3-1/2" x 3/8" Structural Zee	50.50	7.36
For >100 To 250, Deduct	-0.74	
For >250 To 500, Deduct	-2.00	
For >500 To 1,000, Deduct	-3.51	
For >1,000, Deduct	-5.02	
For 316 Stainless Steel, Add	130.18	
For Aluminum, Add	7.32	
For Galvanized Steel, Add	25.22	
For 304 Stainless Steel, Add	115.94	

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

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
05 12 23 00-0620		Junior I-Beams <small>(05 12 23 00-0411)</small>			
05 12 23 00-0621	LF	3" Junior I-Beam, 2.9 LB/LF.....	18.02		6.35
		<i>For >100 To 250, Deduct</i>	-0.63		
		<i>For >250 To 500, Deduct</i>	-1.09		
		<i>For >500 To 1,000, Deduct</i>	-1.75		
		<i>For >1,000, Deduct</i>	-2.41		
		<i>For 316 Stainless Steel, Add</i>	30.59		
		<i>For Aluminum, Add</i>	1.72		
		<i>For Galvanized Steel, Add</i>	5.93		
		<i>For 304 Stainless Steel, Add</i>	27.25		
05 12 23 00-0622	LF	4" Junior I-Beam, 3.2 LB/LF.....	19.81		6.94
		<i>For >100 To 250, Deduct</i>	-0.69		
		<i>For >250 To 500, Deduct</i>	-1.19		
		<i>For >500 To 1,000, Deduct</i>	-1.92		
		<i>For >1,000, Deduct</i>	-2.64		
		<i>For 316 Stainless Steel, Add</i>	33.76		
		<i>For Aluminum, Add</i>	1.90		
		<i>For Galvanized Steel, Add</i>	6.54		
		<i>For 304 Stainless Steel, Add</i>	30.07		
05 12 23 00-0623	LF	5" Junior I-Beam, 3.8 LB/LF.....	22.68		7.61
		<i>For >100 To 250, Deduct</i>	-0.76		
		<i>For >250 To 500, Deduct</i>	-1.33		
		<i>For >500 To 1,000, Deduct</i>	-2.15		
		<i>For >1,000, Deduct</i>	-2.97		
		<i>For 316 Stainless Steel, Add</i>	40.10		
		<i>For Aluminum, Add</i>	2.26		
		<i>For Galvanized Steel, Add</i>	7.77		
		<i>For 304 Stainless Steel, Add</i>	35.71		
05 12 23 00-0624	LF	6" Junior I-Beam, 4.4 LB/LF.....	25.57		8.29
		<i>For >100 To 250, Deduct</i>	-0.83		
		<i>For >250 To 500, Deduct</i>	-1.47		
		<i>For >500 To 1,000, Deduct</i>	-2.38		
		<i>For >1,000, Deduct</i>	-3.30		
		<i>For 316 Stainless Steel, Add</i>	46.43		
		<i>For Aluminum, Add</i>	2.61		
		<i>For Galvanized Steel, Add</i>	9.00		
		<i>For 304 Stainless Steel, Add</i>	41.35		
05 12 23 00-0625	LF	7" Junior I-Beam, 5.5 LB/LF.....	29.98		8.88
		<i>For >100 To 250, Deduct</i>	-0.89		
		<i>For >250 To 500, Deduct</i>	-1.64		
		<i>For >500 To 1,000, Deduct</i>	-2.68		
		<i>For >1,000, Deduct</i>	-3.73		
		<i>For 316 Stainless Steel, Add</i>	58.05		
		<i>For Aluminum, Add</i>	3.27		
		<i>For Galvanized Steel, Add</i>	11.25		
		<i>For 304 Stainless Steel, Add</i>	51.70		
05 12 23 00-0626	LF	8" Junior I-Beam, 6.5 LB/LF.....	34.07		9.48
		<i>For >100 To 250, Deduct</i>	-0.95		
		<i>For >250 To 500, Deduct</i>	-1.80		
		<i>For >500 To 1,000, Deduct</i>	-2.97		
		<i>For >1,000, Deduct</i>	-4.13		
		<i>For 316 Stainless Steel, Add</i>	68.61		
		<i>For Aluminum, Add</i>	3.86		
		<i>For Galvanized Steel, Add</i>	13.29		
		<i>For 304 Stainless Steel, Add</i>	61.10		
05 12 23 00-0627	LF	10" Junior I-Beam, 9 LB/LF.....	44.12		10.83
		<i>For >100 To 250, Deduct</i>	-1.08		
		<i>For >250 To 500, Deduct</i>	-2.19		
		<i>For >500 To 1,000, Deduct</i>	-3.65		
		<i>For >1,000, Deduct</i>	-5.11		
		<i>For 316 Stainless Steel, Add</i>	94.98		
		<i>For Aluminum, Add</i>	5.34		
		<i>For Galvanized Steel, Add</i>	18.40		
		<i>For 304 Stainless Steel, Add</i>	84.59		
05 12 23 00-0628	LF	12" Junior I-Beam, 11.8 LB/LF.....	56.05		12.86
		<i>For >100 To 250, Deduct</i>	-1.29		
		<i>For >250 To 500, Deduct</i>	-2.69		
		<i>For >500 To 1,000, Deduct</i>	-4.52		
		<i>For >1,000, Deduct</i>	-6.35		
		<i>For 316 Stainless Steel, Add</i>	124.51		
		<i>For Aluminum, Add</i>	7.00		
		<i>For Galvanized Steel, Add</i>	24.12		
		<i>For 304 Stainless Steel, Add</i>	110.89		
05 12 23 00-0629		Round Stock <small>(05 12 23 00-0411)</small>			
05 12 23 00-0630	LF	1/4" Carbon Steel Rounds, ASTM A108.....	2.53		
		<i>For 316 Stainless Steel, Add</i>	4.48		
		<i>For Aluminum, Add</i>	0.25		
		<i>For Galvanized Steel, Add</i>	0.87		
		<i>For 304 Stainless Steel, Add</i>	3.99		
05 12 23 00-0631	LF	3/8" Carbon Steel Rounds, ASTM A108.....	4.04		
		<i>For 316 Stainless Steel, Add</i>	8.83		
		<i>For Aluminum, Add</i>	0.50		
		<i>For Galvanized Steel, Add</i>	1.71		
		<i>For 304 Stainless Steel, Add</i>	7.87		



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0632 LF 1/2" Carbon Steel Rounds, ASTM A108	5.61	
For 316 Stainless Steel, Add	13.44	
For Aluminum, Add	0.76	
For Galvanized Steel, Add	2.60	
For 304 Stainless Steel, Add	11.97	
05 12 23 00-0633 LF 5/8" Carbon Steel Rounds, ASTM A108	8.57	
For 316 Stainless Steel, Add	22.40	
For Aluminum, Add	1.26	
For Galvanized Steel, Add	4.34	
For 304 Stainless Steel, Add	19.95	
05 12 23 00-0634 LF 3/4" Carbon Steel Rounds, ASTM A108	10.20	
For 316 Stainless Steel, Add	26.62	
For Aluminum, Add	1.50	
For Galvanized Steel, Add	5.16	
For 304 Stainless Steel, Add	23.71	
05 12 23 00-0635 LF 7/8" Carbon Steel Rounds, ASTM A108	11.89	
For 316 Stainless Steel, Add	31.10	
For Aluminum, Add	1.75	
For Galvanized Steel, Add	6.03	
For 304 Stainless Steel, Add	27.70	
05 12 23 00-0636 LF 1" Carbon Steel Rounds, ASTM A108	17.38	
For 316 Stainless Steel, Add	47.39	
For Aluminum, Add	2.67	
For Galvanized Steel, Add	9.18	
For 304 Stainless Steel, Add	42.21	
05 12 23 00-0637 LF 1-1/8" Carbon Steel Rounds, ASTM A108	21.12	
For 316 Stainless Steel, Add	57.57	
For Aluminum, Add	3.24	
For Galvanized Steel, Add	11.15	
For 304 Stainless Steel, Add	51.27	
05 12 23 00-0638 LF 1-1/4" Carbon Steel Rounds, ASTM A108	25.20	
For 316 Stainless Steel, Add	67.74	
For Aluminum, Add	3.81	
For Galvanized Steel, Add	13.13	
For 304 Stainless Steel, Add	60.33	
05 12 23 00-0639 LF 1-3/8" Carbon Steel Rounds, ASTM A108	30.54	
For 316 Stainless Steel, Add	82.69	
For Aluminum, Add	4.65	
For Galvanized Steel, Add	16.02	
For 304 Stainless Steel, Add	73.64	
05 12 23 00-0640 LF 1-1/2" Carbon Steel Rounds, ASTM A108	33.99	
For 316 Stainless Steel, Add	90.72	
For Aluminum, Add	5.10	
For Galvanized Steel, Add	17.58	
For 304 Stainless Steel, Add	80.80	
05 12 23 00-0641 LF 1-5/8" Carbon Steel Rounds, ASTM A108	39.17	
For 316 Stainless Steel, Add	102.78	
For Aluminum, Add	5.78	
For Galvanized Steel, Add	19.91	
For 304 Stainless Steel, Add	91.54	
05 12 23 00-0642 LF 1-3/4" Carbon Steel Rounds, ASTM A108	46.78	
For 316 Stainless Steel, Add	119.62	
For Aluminum, Add	6.73	
For Galvanized Steel, Add	23.18	
For 304 Stainless Steel, Add	106.53	
05 12 23 00-0643 LF 1-7/8" Carbon Steel Rounds, ASTM A108	56.20	
For 316 Stainless Steel, Add	140.13	
For Aluminum, Add	7.88	
For Galvanized Steel, Add	27.15	
For 304 Stainless Steel, Add	124.80	
05 12 23 00-0644 LF 2" Carbon Steel Rounds, ASTM A108	64.09	
For 316 Stainless Steel, Add	155.87	
For Aluminum, Add	8.77	
For Galvanized Steel, Add	30.20	
For 304 Stainless Steel, Add	138.82	
05 12 23 00-0645 LF 2-1/8" Carbon Steel Rounds, ASTM A108	74.74	
For 316 Stainless Steel, Add	178.02	
For Aluminum, Add	10.01	
For Galvanized Steel, Add	34.49	
For 304 Stainless Steel, Add	158.55	
05 12 23 00-0646 LF 2-1/4" Carbon Steel Rounds, ASTM A108	84.52	
For 316 Stainless Steel, Add	200.16	
For Aluminum, Add	11.26	
For Galvanized Steel, Add	38.78	
For 304 Stainless Steel, Add	178.27	
05 12 23 00-0647 LF 2-3/8" Carbon Steel Rounds, ASTM A108	96.80	
For 316 Stainless Steel, Add	228.93	
For Aluminum, Add	12.88	
For Galvanized Steel, Add	44.35	
For 304 Stainless Steel, Add	203.89	
05 12 23 00-0648 LF 2-1/2" Carbon Steel Rounds, ASTM A108	106.77	
For 316 Stainless Steel, Add	246.72	
For Aluminum, Add	13.88	
For Galvanized Steel, Add	47.80	
For 304 Stainless Steel, Add	219.74	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0649 LF 2-5/8" Carbon Steel Rounds, ASTM A108	130.90	
For 316 Stainless Steel, Add	313.41	
For Aluminum, Add	17.63	
For Galvanized Steel, Add	60.72	
For 304 Stainless Steel, Add	279.13	
05 12 23 00-0650 LF 2-3/4" Carbon Steel Rounds, ASTM A108	149.05	
For 316 Stainless Steel, Add	357.41	
For Aluminum, Add	20.10	
For Galvanized Steel, Add	69.25	
For 304 Stainless Steel, Add	318.32	
05 12 23 00-0651 LF 2-7/8 Carbon Steel Rounds, ASTM A108	166.22	
For 316 Stainless Steel, Add	398.27	
For Aluminum, Add	22.40	
For Galvanized Steel, Add	77.17	
For 304 Stainless Steel, Add	354.71	
05 12 23 00-0652 LF 3" Carbon Steel Rounds, ASTM A108	174.34	
For 316 Stainless Steel, Add	410.21	
For Aluminum, Add	23.07	
For Galvanized Steel, Add	79.48	
For 304 Stainless Steel, Add	365.34	
05 12 23 00-0653 LF 3-1/8" Carbon Steel Rounds, ASTM A108	181.59	
For 316 Stainless Steel, Add	419.33	
For Aluminum, Add	23.59	
For Galvanized Steel, Add	81.24	
For 304 Stainless Steel, Add	373.46	
05 12 23 00-0654 LF 3-1/4" Carbon Steel Rounds, ASTM A108	191.32	
For 316 Stainless Steel, Add	436.42	
For Aluminum, Add	24.55	
For Galvanized Steel, Add	84.56	
For 304 Stainless Steel, Add	388.68	
05 12 23 00-0655 LF 3-1/2" Carbon Steel Rounds, ASTM A108	233.49	
For 316 Stainless Steel, Add	553.76	
For Aluminum, Add	31.15	
For Galvanized Steel, Add	107.29	
For 304 Stainless Steel, Add	493.19	
05 12 23 00-0656 LF 3-5/8" Carbon Steel Rounds, ASTM A108	259.51	
For 316 Stainless Steel, Add	619.46	
For Aluminum, Add	34.84	
For Galvanized Steel, Add	120.02	
For 304 Stainless Steel, Add	551.70	
05 12 23 00-0657 LF 3-3/4" Carbon Steel Rounds, ASTM A108	278.50	
For 316 Stainless Steel, Add	662.66	
For Aluminum, Add	37.27	
For Galvanized Steel, Add	128.39	
For 304 Stainless Steel, Add	590.18	
05 12 23 00-0658 LF 4" Carbon Steel Rounds, ASTM A108	312.68	
For 316 Stainless Steel, Add	754.43	
For Aluminum, Add	42.44	
For Galvanized Steel, Add	146.17	
For 304 Stainless Steel, Add	671.92	
05 12 23 00-0659 Square Stock (05 12 23 00-0411)		
05 12 23 00-0660 LF 3/8" Square Bar Stock	2.01	
For 316 Stainless Steel, Add	2.34	
For Aluminum, Add	0.13	
For Galvanized Steel, Add	0.45	
For 304 Stainless Steel, Add	2.08	
05 12 23 00-0661 LF 1/2" Square Bar Stock	2.71	
For 316 Stainless Steel, Add	4.16	
For Aluminum, Add	0.23	
For Galvanized Steel, Add	0.81	
For 304 Stainless Steel, Add	3.71	
05 12 23 00-0662 LF 5/8" Square Bar Stock	3.60	
For 316 Stainless Steel, Add	6.50	
For Aluminum, Add	0.37	
For Galvanized Steel, Add	1.26	
For 304 Stainless Steel, Add	5.79	
05 12 23 00-0663 LF 3/4" Square Bar Stock	4.80	
For 316 Stainless Steel, Add	9.34	
For Aluminum, Add	0.53	
For Galvanized Steel, Add	1.81	
For 304 Stainless Steel, Add	8.32	
05 12 23 00-0664 LF 7/8" Square Bar Stock	6.25	
For 316 Stainless Steel, Add	13.06	
For Aluminum, Add	0.73	
For Galvanized Steel, Add	2.53	
For 304 Stainless Steel, Add	11.63	
05 12 23 00-0665 LF 1" Square Bar Stock	7.78	
For 316 Stainless Steel, Add	16.67	
For Aluminum, Add	0.94	
For Galvanized Steel, Add	3.23	
For 304 Stainless Steel, Add	14.85	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0666 LF 1-1/4" Square Bar Stock	12.16	
For 316 Stainless Steel, Add	26.02	
For Aluminum, Add	1.46	
For Galvanized Steel, Add	5.04	
For 304 Stainless Steel, Add	23.17	
05 12 23 00-0667 LF 1-1/2" Square Bar Stock	17.35	
For 316 Stainless Steel, Add	37.47	
For Aluminum, Add	2.11	
For Galvanized Steel, Add	7.26	
For 304 Stainless Steel, Add	33.37	
05 12 23 00-0668 LF 1-3/4" Square Bar Stock	25.68	
For 316 Stainless Steel, Add	52.10	
For Aluminum, Add	2.93	
For Galvanized Steel, Add	10.09	
For 304 Stainless Steel, Add	46.40	
05 12 23 00-0669 LF 2" Square Bar Stock	36.61	
For 316 Stainless Steel, Add	66.62	
For Aluminum, Add	3.75	
For Galvanized Steel, Add	12.91	
For 304 Stainless Steel, Add	59.34	
05 12 23 00-0670 Steel Tubing (05 12 23 00-0411)		
Note: General purpose low-carbon steel.		
05 12 23 00-0671 Square Steel Tubing (05 12 23 00-0670)		
05 12 23 00-0672 0.06" Wall Thickness (05 12 23 00-0671)		
05 12 23 00-0673 LF 1/2" x 1/2" x 0.06" Square Steel Tubing	2.72	0.60
For >100 To 250, Deduct	-0.06	
For >250 To 500, Deduct	-0.13	
For >500 To 1,000, Deduct	-0.22	
For >1,000, Deduct	-0.31	
For 316 Stainless Steel, Add	6.11	
For Aluminum, Add	0.34	
For Galvanized Steel, Add	1.18	
For 304 Stainless Steel, Add	5.44	
05 12 23 00-0674 LF 3/4" x 3/4" x 0.06" Square Steel Tubing	4.18	0.96
For >100 To 250, Deduct	-0.10	
For >250 To 500, Deduct	-0.20	
For >500 To 1,000, Deduct	-0.34	
For >1,000, Deduct	-0.47	
For 316 Stainless Steel, Add	9.31	
For Aluminum, Add	0.52	
For Galvanized Steel, Add	1.80	
For 304 Stainless Steel, Add	8.29	
05 12 23 00-0675 LF 1" x 1" x 0.06" Square Steel Tubing	5.63	1.73
For >100 To 250, Deduct	-0.13	
For >250 To 500, Deduct	-0.27	
For >500 To 1,000, Deduct	-0.45	
For >1,000, Deduct	-0.64	
For 316 Stainless Steel, Add	12.48	
For Aluminum, Add	0.70	
For Galvanized Steel, Add	2.42	
For 304 Stainless Steel, Add	11.12	
05 12 23 00-0676 LF 1-1/4" x 1-1/4" x 0.06" Square Steel Tubing	7.45	1.64
For >100 To 250, Deduct	-0.17	
For >250 To 500, Deduct	-0.35	
For >500 To 1,000, Deduct	-0.59	
For >1,000, Deduct	-0.83	
For 316 Stainless Steel, Add	16.80	
For Aluminum, Add	0.95	
For Galvanized Steel, Add	3.26	
For 304 Stainless Steel, Add	14.96	
05 12 23 00-0677 LF 1-1/2" x 1-1/2" x 0.06" Square Steel Tubing	8.81	1.99
For >100 To 250, Deduct	-0.20	
For >250 To 500, Deduct	-0.42	
For >500 To 1,000, Deduct	-0.71	
For >1,000, Deduct	-0.99	
For 316 Stainless Steel, Add	19.71	
For Aluminum, Add	1.11	
For Galvanized Steel, Add	3.82	
For 304 Stainless Steel, Add	17.56	
05 12 23 00-0678 0.083" Wall Thickness (05 12 23 00-0671)		
05 12 23 00-0679 LF 3/4" x 3/4" x 0.083" Square Steel Tubing	4.87	1.12
For >100 To 250, Deduct	-0.11	
For >250 To 500, Deduct	-0.23	
For >500 To 1,000, Deduct	-0.39	
For >1,000, Deduct	-0.55	
For 316 Stainless Steel, Add	10.82	
For Aluminum, Add	0.61	
For Galvanized Steel, Add	2.10	
For 304 Stainless Steel, Add	9.63	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0680	LF		1" x 1" x 0.083" Square Steel Tubing.....	7.10	1.53
			<i>For >100 To 250, Deduct</i>	-0.15	
			<i>For >250 To 500, Deduct</i>	-0.33	
			<i>For >500 To 1,000, Deduct</i>	-0.56	
			<i>For >1,000, Deduct</i>	-0.79	
			<i>For 316 Stainless Steel, Add</i>	16.19	
			<i>For Aluminum, Add</i>	0.91	
			<i>For Galvanized Steel, Add</i>	3.14	
			<i>For 304 Stainless Steel, Add</i>	14.42	
05 12 23 00-0681	LF		1-1/4" x 1-1/4" x 0.083" Square Steel Tubing.....	8.57	1.95
			<i>For >100 To 250, Deduct</i>	-0.20	
			<i>For >250 To 500, Deduct</i>	-0.41	
			<i>For >500 To 1,000, Deduct</i>	-0.69	
			<i>For >1,000, Deduct</i>	-0.97	
			<i>For 316 Stainless Steel, Add</i>	19.10	
			<i>For Aluminum, Add</i>	1.07	
			<i>For Galvanized Steel, Add</i>	3.70	
			<i>For 304 Stainless Steel, Add</i>	17.01	
05 12 23 00-0682	LF		1-1/2" x 1-1/2" x 0.083" Square Steel Tubing.....	10.36	2.37
			<i>For >100 To 250, Deduct</i>	-0.24	
			<i>For >250 To 500, Deduct</i>	-0.50	
			<i>For >500 To 1,000, Deduct</i>	-0.83	
			<i>For >1,000, Deduct</i>	-1.17	
			<i>For 316 Stainless Steel, Add</i>	23.04	
			<i>For Aluminum, Add</i>	1.30	
			<i>For Galvanized Steel, Add</i>	4.46	
			<i>For 304 Stainless Steel, Add</i>	20.52	
05 12 23 00-0683	LF		2" x 2" x 0.083" Square Steel Tubing.....	13.28	3.16
			<i>For >100 To 250, Deduct</i>	-0.32	
			<i>For >250 To 500, Deduct</i>	-0.65	
			<i>For >500 To 1,000, Deduct</i>	-1.09	
			<i>For >1,000, Deduct</i>	-1.52	
			<i>For 316 Stainless Steel, Add</i>	29.02	
			<i>For Aluminum, Add</i>	1.63	
			<i>For Galvanized Steel, Add</i>	5.62	
			<i>For 304 Stainless Steel, Add</i>	25.85	
05 12 23 00-0684			0.12" Wall Thickness (05 12 23 00-0671)		
05 12 23 00-0685	LF		1" x 1" x 0.12" Square Steel Tubing.....	7.83	1.82
			<i>For >100 To 250, Deduct</i>	-0.18	
			<i>For >250 To 500, Deduct</i>	-0.38	
			<i>For >500 To 1,000, Deduct</i>	-0.64	
			<i>For >1,000, Deduct</i>	-0.89	
			<i>For 316 Stainless Steel, Add</i>	17.25	
			<i>For Aluminum, Add</i>	0.97	
			<i>For Galvanized Steel, Add</i>	3.34	
			<i>For 304 Stainless Steel, Add</i>	15.36	
05 12 23 00-0686	LF		1-1/4" x 1-1/4" x 0.12" Square Steel Tubing.....	10.08	2.35
			<i>For >100 To 250, Deduct</i>	-0.23	
			<i>For >250 To 500, Deduct</i>	-0.49	
			<i>For >500 To 1,000, Deduct</i>	-0.82	
			<i>For >1,000, Deduct</i>	-1.15	
			<i>For 316 Stainless Steel, Add</i>	22.27	
			<i>For Aluminum, Add</i>	1.25	
			<i>For Galvanized Steel, Add</i>	4.32	
			<i>For 304 Stainless Steel, Add</i>	19.84	
05 12 23 00-0687	LF		1-1/2" x 1-1/2" x 0.12" Square Steel Tubing.....	12.38	2.86
			<i>For >100 To 250, Deduct</i>	-0.29	
			<i>For >250 To 500, Deduct</i>	-0.60	
			<i>For >500 To 1,000, Deduct</i>	-1.00	
			<i>For >1,000, Deduct</i>	-1.41	
			<i>For 316 Stainless Steel, Add</i>	27.39	
			<i>For Aluminum, Add</i>	1.54	
			<i>For Galvanized Steel, Add</i>	5.31	
			<i>For 304 Stainless Steel, Add</i>	24.40	
05 12 23 00-0688	LF		2" x 2" x 0.12" Square Steel Tubing.....	16.75	3.90
			<i>For >100 To 250, Deduct</i>	-0.39	
			<i>For >250 To 500, Deduct</i>	-0.81	
			<i>For >500 To 1,000, Deduct</i>	-1.36	
			<i>For >1,000, Deduct</i>	-1.91	
			<i>For 316 Stainless Steel, Add</i>	36.96	
			<i>For Aluminum, Add</i>	2.08	
			<i>For Galvanized Steel, Add</i>	7.16	
			<i>For 304 Stainless Steel, Add</i>	32.92	

05 12 23 00-0689 1/8" Wall Thickness (05 12 23 00-0671)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0690 LF 2" x 2" x 1/8" Square Steel Tubing.....	15.03	4.05
For >100 To 250, Deduct	-0.41	
For >250 To 500, Deduct	-0.78	
For >500 To 1,000, Deduct	-1.29	
For >1,000, Deduct	-1.80	
For 316 Stainless Steel, Add	30.82	
For Aluminum, Add	1.73	
For Galvanized Steel, Add	5.97	
For 304 Stainless Steel, Add	27.45	
05 12 23 00-0691 LF 2-1/2" x 2-1/2" x 1/8" Square Steel Tubing	19.84	5.13
For >100 To 250, Deduct	-0.51	
For >250 To 500, Deduct	-1.01	
For >500 To 1,000, Deduct	-1.68	
For >1,000, Deduct	-2.34	
For 316 Stainless Steel, Add	41.60	
For Aluminum, Add	2.34	
For Galvanized Steel, Add	8.06	
For 304 Stainless Steel, Add	37.05	
05 12 23 00-0692 LF 3" x 3" x 1/8" Square Steel Tubing.....	23.23	6.20
For >100 To 250, Deduct	-0.62	
For >250 To 500, Deduct	-1.20	
For >500 To 1,000, Deduct	-1.99	
For >1,000, Deduct	-2.78	
For 316 Stainless Steel, Add	47.84	
For Aluminum, Add	2.69	
For Galvanized Steel, Add	9.27	
For 304 Stainless Steel, Add	42.61	
05 12 23 00-0693 LF 3-1/2" x 3-1/2" x 1/8" Square Steel Tubing	26.91	7.29
For >100 To 250, Deduct	-0.73	
For >250 To 500, Deduct	-1.40	
For >500 To 1,000, Deduct	-2.32	
For >1,000, Deduct	-3.23	
For 316 Stainless Steel, Add	55.01	
For Aluminum, Add	3.09	
For Galvanized Steel, Add	10.66	
For 304 Stainless Steel, Add	48.99	
05 12 23 00-0694 LF 4" x 4" x 1/8" Square Steel Tubing.....	29.62	8.37
For >100 To 250, Deduct	-0.84	
For >250 To 500, Deduct	-1.58	
For >500 To 1,000, Deduct	-2.60	
For >1,000, Deduct	-3.62	
For 316 Stainless Steel, Add	59.07	
For Aluminum, Add	3.32	
For Galvanized Steel, Add	11.45	
For 304 Stainless Steel, Add	52.61	
05 12 23 00-0695 3/16" Wall Thickness (05 12 23 00-0671)		
05 12 23 00-0696 LF 2" x 2" x 3/16" Square Steel Tubing.....	17.04	4.57
For >100 To 250, Deduct	-0.46	
For >250 To 500, Deduct	-0.88	
For >500 To 1,000, Deduct	-1.46	
For >1,000, Deduct	-2.04	
For 316 Stainless Steel, Add	35.04	
For Aluminum, Add	1.97	
For Galvanized Steel, Add	6.79	
For 304 Stainless Steel, Add	31.21	
05 12 23 00-0697 LF 2-1/2" x 2-1/2" x 3/16" Square Steel Tubing	22.06	5.91
For >100 To 250, Deduct	-0.59	
For >250 To 500, Deduct	-1.14	
For >500 To 1,000, Deduct	-1.89	
For >1,000, Deduct	-2.64	
For 316 Stainless Steel, Add	45.34	
For Aluminum, Add	2.55	
For Galvanized Steel, Add	8.79	
For 304 Stainless Steel, Add	40.38	
05 12 23 00-0698 LF 3" x 3" x 3/16" Square Steel Tubing.....	27.11	7.26
For >100 To 250, Deduct	-0.73	
For >250 To 500, Deduct	-1.40	
For >500 To 1,000, Deduct	-2.32	
For >1,000, Deduct	-3.24	
For 316 Stainless Steel, Add	55.74	
For Aluminum, Add	3.14	
For Galvanized Steel, Add	10.80	
For 304 Stainless Steel, Add	49.65	
05 12 23 00-0699 LF 3-1/2" x 3-1/2" x 3/16" Square Steel Tubing	32.16	8.62
For >100 To 250, Deduct	-0.86	
For >250 To 500, Deduct	-1.67	
For >500 To 1,000, Deduct	-2.76	
For >1,000, Deduct	-3.85	
For 316 Stainless Steel, Add	66.14	
For Aluminum, Add	3.72	
For Galvanized Steel, Add	12.82	
For 304 Stainless Steel, Add	58.91	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0700	LF		4" x 4" x 3/16" Square Steel Tubing.....	37.17	9.96
			<i>For >100 To 250, Deduct</i>	-1.00	
			<i>For >250 To 500, Deduct</i>	-1.93	
			<i>For >500 To 1,000, Deduct</i>	-3.19	
			<i>For >1,000, Deduct</i>	-4.45	
			<i>For 316 Stainless Steel, Add</i>	76.45	
			<i>For Aluminum, Add</i>	4.30	
			<i>For Galvanized Steel, Add</i>	14.81	
			<i>For 304 Stainless Steel, Add</i>	68.09	
05 12 23 00-0701	LF		4-1/2" x 4-1/2" x 3/16" Square Steel Tubing.....	42.22	11.32
			<i>For >100 To 250, Deduct</i>	-1.13	
			<i>For >250 To 500, Deduct</i>	-2.19	
			<i>For >500 To 1,000, Deduct</i>	-3.62	
			<i>For >1,000, Deduct</i>	-5.05	
			<i>For 316 Stainless Steel, Add</i>	86.82	
			<i>For Aluminum, Add</i>	4.88	
			<i>For Galvanized Steel, Add</i>	16.82	
			<i>For 304 Stainless Steel, Add</i>	77.32	
05 12 23 00-0702	LF		5" x 5" x 3/16" Square Steel Tubing.....	47.23	12.66
			<i>For >100 To 250, Deduct</i>	-1.27	
			<i>For >250 To 500, Deduct</i>	-2.45	
			<i>For >500 To 1,000, Deduct</i>	-4.05	
			<i>For >1,000, Deduct</i>	-5.65	
			<i>For 316 Stainless Steel, Add</i>	97.12	
			<i>For Aluminum, Add</i>	5.46	
			<i>For Galvanized Steel, Add</i>	18.82	
			<i>For 304 Stainless Steel, Add</i>	86.50	
05 12 23 00-0703	LF		6" x 6" x 3/16" Square Steel Tubing.....	57.33	15.37
			<i>For >100 To 250, Deduct</i>	-1.54	
			<i>For >250 To 500, Deduct</i>	-2.97	
			<i>For >500 To 1,000, Deduct</i>	-4.92	
			<i>For >1,000, Deduct</i>	-6.86	
			<i>For 316 Stainless Steel, Add</i>	117.89	
			<i>For Aluminum, Add</i>	6.63	
			<i>For Galvanized Steel, Add</i>	22.84	
			<i>For 304 Stainless Steel, Add</i>	104.99	
05 12 23 00-0704			1/4" Wall Thickness <small>(05 12 23 00-0671)</small>		
05 12 23 00-0705	LF		2" x 2" x 1/4" Square Steel Tubing.....	18.21	4.57
			<i>For >100 To 250, Deduct</i>	-0.46	
			<i>For >250 To 500, Deduct</i>	-0.91	
			<i>For >500 To 1,000, Deduct</i>	-1.52	
			<i>For >1,000, Deduct</i>	-2.13	
			<i>For 316 Stainless Steel, Add</i>	38.75	
			<i>For Aluminum, Add</i>	2.18	
			<i>For Galvanized Steel, Add</i>	7.51	
			<i>For 304 Stainless Steel, Add</i>	34.51	
05 12 23 00-0706	LF		2-1/2" x 2-1/2" x 1/4" Square Steel Tubing.....	23.93	6.01
			<i>For >100 To 250, Deduct</i>	-0.60	
			<i>For >250 To 500, Deduct</i>	-1.20	
			<i>For >500 To 1,000, Deduct</i>	-2.00	
			<i>For >1,000, Deduct</i>	-2.80	
			<i>For 316 Stainless Steel, Add</i>	50.91	
			<i>For Aluminum, Add</i>	2.86	
			<i>For Galvanized Steel, Add</i>	9.86	
			<i>For 304 Stainless Steel, Add</i>	45.34	
05 12 23 00-0707	LF		3" x 3" x 1/4" Square Steel Tubing.....	29.66	7.45
			<i>For >100 To 250, Deduct</i>	-0.75	
			<i>For >250 To 500, Deduct</i>	-1.49	
			<i>For >500 To 1,000, Deduct</i>	-2.48	
			<i>For >1,000, Deduct</i>	-3.47	
			<i>For 316 Stainless Steel, Add</i>	63.10	
			<i>For Aluminum, Add</i>	3.55	
			<i>For Galvanized Steel, Add</i>	12.23	
			<i>For 304 Stainless Steel, Add</i>	56.20	
05 12 23 00-0708	LF		3-1/2" x 3-1/2" x 1/4" Square Steel Tubing.....	35.37	8.89
			<i>For >100 To 250, Deduct</i>	-0.89	
			<i>For >250 To 500, Deduct</i>	-1.77	
			<i>For >500 To 1,000, Deduct</i>	-2.95	
			<i>For >1,000, Deduct</i>	-4.13	
			<i>For 316 Stainless Steel, Add</i>	75.26	
			<i>For Aluminum, Add</i>	4.23	
			<i>For Galvanized Steel, Add</i>	14.58	
			<i>For 304 Stainless Steel, Add</i>	67.03	
05 12 23 00-0709	LF		4" x 4" x 1/4" Square Steel Tubing.....	41.10	10.33
			<i>For >100 To 250, Deduct</i>	-1.03	
			<i>For >250 To 500, Deduct</i>	-2.06	
			<i>For >500 To 1,000, Deduct</i>	-3.43	
			<i>For >1,000, Deduct</i>	-4.81	
			<i>For 316 Stainless Steel, Add</i>	87.42	
			<i>For Aluminum, Add</i>	4.92	
			<i>For Galvanized Steel, Add</i>	16.94	
			<i>For 304 Stainless Steel, Add</i>	77.86	



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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0710	LF		4-1/2" x 4-1/2" x 1/4" Square Steel Tubing	46.82	11.76
			<i>For >100 To 250, Deduct</i>	-1.18	
			<i>For >250 To 500, Deduct</i>	-2.35	
			<i>For >500 To 1,000, Deduct</i>	-3.91	
			<i>For >1,000, Deduct</i>	-5.47	
			<i>For 316 Stainless Steel, Add</i>	99.62	
			<i>For Aluminum, Add</i>	5.60	
			<i>For Galvanized Steel, Add</i>	19.30	
			<i>For 304 Stainless Steel, Add</i>	88.72	
05 12 23 00-0711	LF		5" x 5" x 1/4" Square Steel Tubing.....	52.58	13.21
			<i>For >100 To 250, Deduct</i>	-1.32	
			<i>For >250 To 500, Deduct</i>	-2.64	
			<i>For >500 To 1,000, Deduct</i>	-4.39	
			<i>For >1,000, Deduct</i>	-6.15	
			<i>For 316 Stainless Steel, Add</i>	111.87	
			<i>For Aluminum, Add</i>	6.29	
			<i>For Galvanized Steel, Add</i>	21.68	
			<i>For 304 Stainless Steel, Add</i>	99.64	
05 12 23 00-0712	LF		6" x 6" x 1/4" Square Steel Tubing.....	64.02	16.09
			<i>For >100 To 250, Deduct</i>	-1.61	
			<i>For >250 To 500, Deduct</i>	-3.21	
			<i>For >500 To 1,000, Deduct</i>	-5.35	
			<i>For >1,000, Deduct</i>	-7.48	
			<i>For 316 Stainless Steel, Add</i>	136.22	
			<i>For Aluminum, Add</i>	7.66	
			<i>For Galvanized Steel, Add</i>	26.39	
			<i>For 304 Stainless Steel, Add</i>	121.32	
05 12 23 00-0713			Rectangular Steel Tubing (05 12 23 00-0670)		
05 12 23 00-0714			3/16" Wall Thickness (05 12 23 00-0713)		
05 12 23 00-0715	LF		3" x 2" x 3/16" Square Steel Tubing.....	22.06	5.91
			<i>For >100 To 250, Deduct</i>	-0.59	
			<i>For >250 To 500, Deduct</i>	-1.14	
			<i>For >500 To 1,000, Deduct</i>	-1.89	
			<i>For >1,000, Deduct</i>	-2.64	
			<i>For 316 Stainless Steel, Add</i>	45.34	
			<i>For Aluminum, Add</i>	2.55	
			<i>For Galvanized Steel, Add</i>	8.79	
			<i>For 304 Stainless Steel, Add</i>	40.38	
05 12 23 00-0716	LF		4" x 2" x 3/16" Square Steel Tubing.....	27.11	7.26
			<i>For >100 To 250, Deduct</i>	-0.73	
			<i>For >250 To 500, Deduct</i>	-1.40	
			<i>For >500 To 1,000, Deduct</i>	-2.32	
			<i>For >1,000, Deduct</i>	-3.24	
			<i>For 316 Stainless Steel, Add</i>	55.74	
			<i>For Aluminum, Add</i>	3.14	
			<i>For Galvanized Steel, Add</i>	10.80	
			<i>For 304 Stainless Steel, Add</i>	49.65	
05 12 23 00-0717	LF		4" x 3" x 3/16" Square Steel Tubing.....	32.16	8.62
			<i>For >100 To 250, Deduct</i>	-0.86	
			<i>For >250 To 500, Deduct</i>	-1.67	
			<i>For >500 To 1,000, Deduct</i>	-2.76	
			<i>For >1,000, Deduct</i>	-3.85	
			<i>For 316 Stainless Steel, Add</i>	66.14	
			<i>For Aluminum, Add</i>	3.72	
			<i>For Galvanized Steel, Add</i>	12.82	
			<i>For 304 Stainless Steel, Add</i>	58.91	
05 12 23 00-0718	LF		5" x 2" x 3/16" Square Steel Tubing.....	32.16	8.62
			<i>For >100 To 250, Deduct</i>	-0.86	
			<i>For >250 To 500, Deduct</i>	-1.67	
			<i>For >500 To 1,000, Deduct</i>	-2.76	
			<i>For >1,000, Deduct</i>	-3.85	
			<i>For 316 Stainless Steel, Add</i>	66.14	
			<i>For Aluminum, Add</i>	3.72	
			<i>For Galvanized Steel, Add</i>	12.82	
			<i>For 304 Stainless Steel, Add</i>	58.91	
05 12 23 00-0719	LF		5" x 3" x 3/16" Square Steel Tubing.....	37.17	9.96
			<i>For >100 To 250, Deduct</i>	-1.00	
			<i>For >250 To 500, Deduct</i>	-1.93	
			<i>For >500 To 1,000, Deduct</i>	-3.19	
			<i>For >1,000, Deduct</i>	-4.45	
			<i>For 316 Stainless Steel, Add</i>	76.45	
			<i>For Aluminum, Add</i>	4.30	
			<i>For Galvanized Steel, Add</i>	14.81	
			<i>For 304 Stainless Steel, Add</i>	68.09	
05 12 23 00-0720	LF		5" x 4" x 3/16" Square Steel Tubing.....	42.22	11.32
			<i>For >100 To 250, Deduct</i>	-1.13	
			<i>For >250 To 500, Deduct</i>	-2.19	
			<i>For >500 To 1,000, Deduct</i>	-3.62	
			<i>For >1,000, Deduct</i>	-5.05	
			<i>For 316 Stainless Steel, Add</i>	86.82	
			<i>For Aluminum, Add</i>	4.88	
			<i>For Galvanized Steel, Add</i>	16.82	
			<i>For 304 Stainless Steel, Add</i>	77.32	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0721	LF		6" x 2" x 3/16" Square Steel Tubing.....	37.17	9.96
			<i>For >100 To 250, Deduct</i>	-1.00	
			<i>For >250 To 500, Deduct</i>	-1.93	
			<i>For >500 To 1,000, Deduct</i>	-3.19	
			<i>For >1,000, Deduct</i>	-4.45	
			<i>For 316 Stainless Steel, Add</i>	76.45	
			<i>For Aluminum, Add</i>	4.30	
			<i>For Galvanized Steel, Add</i>	14.81	
			<i>For 304 Stainless Steel, Add</i>	68.09	
05 12 23 00-0722	LF		6" x 3" x 3/16" Square Steel Tubing.....	42.22	11.32
			<i>For >100 To 250, Deduct</i>	-1.13	
			<i>For >250 To 500, Deduct</i>	-2.19	
			<i>For >500 To 1,000, Deduct</i>	-3.62	
			<i>For >1,000, Deduct</i>	-5.05	
			<i>For 316 Stainless Steel, Add</i>	86.82	
			<i>For Aluminum, Add</i>	4.88	
			<i>For Galvanized Steel, Add</i>	16.82	
			<i>For 304 Stainless Steel, Add</i>	77.32	
05 12 23 00-0723	LF		6" x 4" x 3/16" Square Steel Tubing.....	47.23	12.66
			<i>For >100 To 250, Deduct</i>	-1.27	
			<i>For >250 To 500, Deduct</i>	-2.45	
			<i>For >500 To 1,000, Deduct</i>	-4.05	
			<i>For >1,000, Deduct</i>	-5.65	
			<i>For 316 Stainless Steel, Add</i>	97.12	
			<i>For Aluminum, Add</i>	5.46	
			<i>For Galvanized Steel, Add</i>	18.82	
			<i>For 304 Stainless Steel, Add</i>	86.50	
05 12 23 00-0724			1/4" Wall Thickness <small>(05 12 23 00-0713)</small>		
05 12 23 00-0725	LF		3" x 2" x 1/4" Square Steel Tubing.....	23.93	6.01
			<i>For >100 To 250, Deduct</i>	-0.60	
			<i>For >250 To 500, Deduct</i>	-1.20	
			<i>For >500 To 1,000, Deduct</i>	-2.00	
			<i>For >1,000, Deduct</i>	-2.80	
			<i>For 316 Stainless Steel, Add</i>	50.91	
			<i>For Aluminum, Add</i>	2.86	
			<i>For Galvanized Steel, Add</i>	9.86	
			<i>For 304 Stainless Steel, Add</i>	45.34	
05 12 23 00-0726	LF		4" x 2" x 1/4" Square Steel Tubing.....	29.66	7.45
			<i>For >100 To 250, Deduct</i>	-0.75	
			<i>For >250 To 500, Deduct</i>	-1.49	
			<i>For >500 To 1,000, Deduct</i>	-2.48	
			<i>For >1,000, Deduct</i>	-3.47	
			<i>For 316 Stainless Steel, Add</i>	63.10	
			<i>For Aluminum, Add</i>	3.55	
			<i>For Galvanized Steel, Add</i>	12.23	
			<i>For 304 Stainless Steel, Add</i>	56.20	
05 12 23 00-0727	LF		4" x 3" x 1/4" Square Steel Tubing.....	35.37	8.89
			<i>For >100 To 250, Deduct</i>	-0.89	
			<i>For >250 To 500, Deduct</i>	-1.77	
			<i>For >500 To 1,000, Deduct</i>	-2.95	
			<i>For >1,000, Deduct</i>	-4.13	
			<i>For 316 Stainless Steel, Add</i>	75.26	
			<i>For Aluminum, Add</i>	4.23	
			<i>For Galvanized Steel, Add</i>	14.58	
			<i>For 304 Stainless Steel, Add</i>	67.03	
05 12 23 00-0728	LF		5" x 2" x 1/4" Square Steel Tubing.....	35.37	8.89
			<i>For >100 To 250, Deduct</i>	-0.89	
			<i>For >250 To 500, Deduct</i>	-1.77	
			<i>For >500 To 1,000, Deduct</i>	-2.95	
			<i>For >1,000, Deduct</i>	-4.13	
			<i>For 316 Stainless Steel, Add</i>	75.26	
			<i>For Aluminum, Add</i>	4.23	
			<i>For Galvanized Steel, Add</i>	14.58	
			<i>For 304 Stainless Steel, Add</i>	67.03	
05 12 23 00-0729	LF		5" x 3" x 1/4" Square Steel Tubing.....	41.10	10.33
			<i>For >100 To 250, Deduct</i>	-1.03	
			<i>For >250 To 500, Deduct</i>	-2.06	
			<i>For >500 To 1,000, Deduct</i>	-3.43	
			<i>For >1,000, Deduct</i>	-4.81	
			<i>For 316 Stainless Steel, Add</i>	87.42	
			<i>For Aluminum, Add</i>	4.92	
			<i>For Galvanized Steel, Add</i>	16.94	
			<i>For 304 Stainless Steel, Add</i>	77.86	
05 12 23 00-0730	LF		5" x 4" x 1/4" Square Steel Tubing.....	46.82	11.76
			<i>For >100 To 250, Deduct</i>	-1.18	
			<i>For >250 To 500, Deduct</i>	-2.35	
			<i>For >500 To 1,000, Deduct</i>	-3.91	
			<i>For >1,000, Deduct</i>	-5.47	
			<i>For 316 Stainless Steel, Add</i>	99.62	
			<i>For Aluminum, Add</i>	5.60	
			<i>For Galvanized Steel, Add</i>	19.30	
			<i>For 304 Stainless Steel, Add</i>	88.72	



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

05

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0731	LF		6" x 2" x 1/4" Square Steel Tubing.....	41.10	10.33
			<i>For >100 To 250, Deduct</i>	-1.03	
			<i>For >250 To 500, Deduct</i>	-2.06	
			<i>For >500 To 1,000, Deduct</i>	-3.43	
			<i>For >1,000, Deduct</i>	-4.81	
			<i>For 316 Stainless Steel, Add</i>	87.42	
			<i>For Aluminum, Add</i>	4.92	
			<i>For Galvanized Steel, Add</i>	16.94	
			<i>For 304 Stainless Steel, Add</i>	77.86	
05 12 23 00-0732	LF		6" x 3" x 1/4" Square Steel Tubing.....	46.82	11.76
			<i>For >100 To 250, Deduct</i>	-1.18	
			<i>For >250 To 500, Deduct</i>	-2.35	
			<i>For >500 To 1,000, Deduct</i>	-3.91	
			<i>For >1,000, Deduct</i>	-5.47	
			<i>For 316 Stainless Steel, Add</i>	99.62	
			<i>For Aluminum, Add</i>	5.60	
			<i>For Galvanized Steel, Add</i>	19.30	
			<i>For 304 Stainless Steel, Add</i>	88.72	
05 12 23 00-0733	LF		6" x 4" x 1/4" Square Steel Tubing.....	52.58	13.21
			<i>For >100 To 250, Deduct</i>	-1.32	
			<i>For >250 To 500, Deduct</i>	-2.64	
			<i>For >500 To 1,000, Deduct</i>	-4.39	
			<i>For >1,000, Deduct</i>	-6.15	
			<i>For 316 Stainless Steel, Add</i>	111.87	
			<i>For Aluminum, Add</i>	6.29	
			<i>For Galvanized Steel, Add</i>	21.68	
			<i>For 304 Stainless Steel, Add</i>	99.64	
05 12 23 00-0734			Round Steel Tubing (05 12 23 00-0670)		
05 12 23 00-0735			0.065" Wall Thickness (05 12 23 00-0734)		
05 12 23 00-0736	LF		1" Diameter x 0.065" Round Steel Tubing.....	4.86	1.10
			<i>For >100 To 250, Deduct</i>	-0.11	
			<i>For >250 To 500, Deduct</i>	-0.23	
			<i>For >500 To 1,000, Deduct</i>	-0.39	
			<i>For >1,000, Deduct</i>	-0.55	
			<i>For 316 Stainless Steel, Add</i>	10.88	
			<i>For Aluminum, Add</i>	0.61	
			<i>For Galvanized Steel, Add</i>	2.11	
			<i>For 304 Stainless Steel, Add</i>	9.69	
05 12 23 00-0737	LF		1-1/4" Diameter x 0.065" Round Steel Tubing.....	6.16	1.39
			<i>For >100 To 250, Deduct</i>	-0.14	
			<i>For >250 To 500, Deduct</i>	-0.29	
			<i>For >500 To 1,000, Deduct</i>	-0.49	
			<i>For >1,000, Deduct</i>	-0.69	
			<i>For 316 Stainless Steel, Add</i>	13.79	
			<i>For Aluminum, Add</i>	0.78	
			<i>For Galvanized Steel, Add</i>	2.67	
			<i>For 304 Stainless Steel, Add</i>	12.28	
05 12 23 00-0738	LF		1-1/2" Diameter x 0.065" Round Steel Tubing.....	7.47	1.68
			<i>For >100 To 250, Deduct</i>	-0.17	
			<i>For >250 To 500, Deduct</i>	-0.36	
			<i>For >500 To 1,000, Deduct</i>	-0.60	
			<i>For >1,000, Deduct</i>	-0.84	
			<i>For 316 Stainless Steel, Add</i>	16.70	
			<i>For Aluminum, Add</i>	0.94	
			<i>For Galvanized Steel, Add</i>	3.24	
			<i>For 304 Stainless Steel, Add</i>	14.88	
05 12 23 00-0739	LF		2" Diameter x 0.065" Round Steel Tubing.....	10.07	2.28
			<i>For >100 To 250, Deduct</i>	-0.23	
			<i>For >250 To 500, Deduct</i>	-0.48	
			<i>For >500 To 1,000, Deduct</i>	-0.81	
			<i>For >1,000, Deduct</i>	-1.13	
			<i>For 316 Stainless Steel, Add</i>	22.53	
			<i>For Aluminum, Add</i>	1.27	
			<i>For Galvanized Steel, Add</i>	4.36	
			<i>For 304 Stainless Steel, Add</i>	20.06	
05 12 23 00-0740	LF		2-1/2" Diameter x 0.065" Round Steel Tubing.....	12.68	2.86
			<i>For >100 To 250, Deduct</i>	-0.29	
			<i>For >250 To 500, Deduct</i>	-0.60	
			<i>For >500 To 1,000, Deduct</i>	-1.02	
			<i>For >1,000, Deduct</i>	-1.43	
			<i>For 316 Stainless Steel, Add</i>	28.35	
			<i>For Aluminum, Add</i>	1.59	
			<i>For Galvanized Steel, Add</i>	5.49	
			<i>For 304 Stainless Steel, Add</i>	25.25	
05 12 23 00-0741	LF		3" Diameter x 0.065" Round Steel Tubing.....	15.27	3.44
			<i>For >100 To 250, Deduct</i>	-0.34	
			<i>For >250 To 500, Deduct</i>	-0.73	
			<i>For >500 To 1,000, Deduct</i>	-1.22	
			<i>For >1,000, Deduct</i>	-1.72	
			<i>For 316 Stainless Steel, Add</i>	34.18	
			<i>For Aluminum, Add</i>	1.92	
			<i>For Galvanized Steel, Add</i>	6.62	
			<i>For 304 Stainless Steel, Add</i>	30.44	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0742	LF		3-1/2" Diameter x 0.065" Round Steel Tubing	17.88	4.04
			<i>For >100 To 250, Deduct</i>	-0.40	
			<i>For >250 To 500, Deduct</i>	-0.85	
			<i>For >500 To 1,000, Deduct</i>	-1.43	
			<i>For >1,000, Deduct</i>	-2.01	
			<i>For 316 Stainless Steel, Add</i>	40.00	
			<i>For Aluminum, Add</i>	2.25	
			<i>For Galvanized Steel, Add</i>	7.75	
			<i>For 304 Stainless Steel, Add</i>	35.63	
05 12 23 00-0743	LF		4" Diameter x 0.065" Round Steel Tubing	20.48	4.62
			<i>For >100 To 250, Deduct</i>	-0.46	
			<i>For >250 To 500, Deduct</i>	-0.97	
			<i>For >500 To 1,000, Deduct</i>	-1.64	
			<i>For >1,000, Deduct</i>	-2.31	
			<i>For 316 Stainless Steel, Add</i>	45.82	
			<i>For Aluminum, Add</i>	2.58	
			<i>For Galvanized Steel, Add</i>	8.88	
			<i>For 304 Stainless Steel, Add</i>	40.81	
05 12 23 00-0744			0.083" Wall Thickness <small>(05 12 23 00-0734)</small>		
05 12 23 00-0745	LF		1" Diameter x 0.083" Round Steel Tubing	5.28	1.21
			<i>For >100 To 250, Deduct</i>	-0.12	
			<i>For >250 To 500, Deduct</i>	-0.25	
			<i>For >500 To 1,000, Deduct</i>	-0.42	
			<i>For >1,000, Deduct</i>	-0.60	
			<i>For 316 Stainless Steel, Add</i>	11.78	
			<i>For Aluminum, Add</i>	0.66	
			<i>For Galvanized Steel, Add</i>	2.28	
			<i>For 304 Stainless Steel, Add</i>	10.49	
05 12 23 00-0746	LF		1-1/4" Diameter x 0.083" Round Steel Tubing	6.72	1.53
			<i>For >100 To 250, Deduct</i>	-0.15	
			<i>For >250 To 500, Deduct</i>	-0.32	
			<i>For >500 To 1,000, Deduct</i>	-0.54	
			<i>For >1,000, Deduct</i>	-0.76	
			<i>For 316 Stainless Steel, Add</i>	14.98	
			<i>For Aluminum, Add</i>	0.84	
			<i>For Galvanized Steel, Add</i>	2.90	
			<i>For 304 Stainless Steel, Add</i>	13.34	
05 12 23 00-0747	LF		1-1/2" Diameter x 0.083" Round Steel Tubing	8.17	1.86
			<i>For >100 To 250, Deduct</i>	-0.19	
			<i>For >250 To 500, Deduct</i>	-0.39	
			<i>For >500 To 1,000, Deduct</i>	-0.66	
			<i>For >1,000, Deduct</i>	-0.92	
			<i>For 316 Stainless Steel, Add</i>	18.21	
			<i>For Aluminum, Add</i>	1.02	
			<i>For Galvanized Steel, Add</i>	3.53	
			<i>For 304 Stainless Steel, Add</i>	16.22	
05 12 23 00-0748	LF		2" Diameter x 0.083" Round Steel Tubing	11.04	2.52
			<i>For >100 To 250, Deduct</i>	-0.25	
			<i>For >250 To 500, Deduct</i>	-0.53	
			<i>For >500 To 1,000, Deduct</i>	-0.89	
			<i>For >1,000, Deduct</i>	-1.25	
			<i>For 316 Stainless Steel, Add</i>	24.61	
			<i>For Aluminum, Add</i>	1.38	
			<i>For Galvanized Steel, Add</i>	4.77	
			<i>For 304 Stainless Steel, Add</i>	21.92	
05 12 23 00-0749	LF		2-1/2" Diameter x 0.083" Round Steel Tubing	13.93	3.17
			<i>For >100 To 250, Deduct</i>	-0.32	
			<i>For >250 To 500, Deduct</i>	-0.67	
			<i>For >500 To 1,000, Deduct</i>	-1.12	
			<i>For >1,000, Deduct</i>	-1.57	
			<i>For 316 Stainless Steel, Add</i>	31.04	
			<i>For Aluminum, Add</i>	1.75	
			<i>For Galvanized Steel, Add</i>	6.01	
			<i>For 304 Stainless Steel, Add</i>	27.65	
05 12 23 00-0750	LF		3" Diameter x 0.083" Round Steel Tubing	16.82	3.83
			<i>For >100 To 250, Deduct</i>	-0.38	
			<i>For >250 To 500, Deduct</i>	-0.80	
			<i>For >500 To 1,000, Deduct</i>	-1.35	
			<i>For >1,000, Deduct</i>	-1.90	
			<i>For 316 Stainless Steel, Add</i>	37.47	
			<i>For Aluminum, Add</i>	2.11	
			<i>For Galvanized Steel, Add</i>	7.26	
			<i>For 304 Stainless Steel, Add</i>	33.37	
05 12 23 00-0751	LF		3-1/2" Diameter x 0.083" Round Steel Tubing	19.70	4.48
			<i>For >100 To 250, Deduct</i>	-0.45	
			<i>For >250 To 500, Deduct</i>	-0.94	
			<i>For >500 To 1,000, Deduct</i>	-1.58	
			<i>For >1,000, Deduct</i>	-2.23	
			<i>For 316 Stainless Steel, Add</i>	43.90	
			<i>For Aluminum, Add</i>	2.47	
			<i>For Galvanized Steel, Add</i>	8.51	
			<i>For 304 Stainless Steel, Add</i>	39.10	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0752 LF 4" Diameter x 0.083" Round Steel Tubing	22.58	5.14
For >100 To 250, Deduct	-0.51	
For >250 To 500, Deduct	-1.08	
For >500 To 1,000, Deduct	-1.82	
For >1,000, Deduct	-2.55	
For 316 Stainless Steel, Add	50.30	
For Aluminum, Add	2.83	
For Galvanized Steel, Add	9.75	
For 304 Stainless Steel, Add	44.80	
05 12 23 00-0753 0.125" Wall Thickness (05 12 23 00-0734)		
05 12 23 00-0754 LF 2" Diameter x 0.125" Round Steel Tubing	11.79	3.17
For >100 To 250, Deduct	-0.32	
For >250 To 500, Deduct	-0.61	
For >500 To 1,000, Deduct	-1.01	
For >1,000, Deduct	-1.41	
For 316 Stainless Steel, Add	24.16	
For Aluminum, Add	1.36	
For Galvanized Steel, Add	4.68	
For 304 Stainless Steel, Add	21.52	
05 12 23 00-0755 LF 2-1/2" Diameter x 0.125" Round Steel Tubing	14.94	4.03
For >100 To 250, Deduct	-0.40	
For >250 To 500, Deduct	-0.78	
For >500 To 1,000, Deduct	-1.28	
For >1,000, Deduct	-1.79	
For 316 Stainless Steel, Add	30.62	
For Aluminum, Add	1.72	
For Galvanized Steel, Add	5.93	
For 304 Stainless Steel, Add	27.27	
05 12 23 00-0756 LF 3" Diameter x 0.125" Round Steel Tubing	18.08	4.87
For >100 To 250, Deduct	-0.49	
For >250 To 500, Deduct	-0.94	
For >500 To 1,000, Deduct	-1.55	
For >1,000, Deduct	-2.17	
For 316 Stainless Steel, Add	37.06	
For Aluminum, Add	2.08	
For Galvanized Steel, Add	7.18	
For 304 Stainless Steel, Add	33.00	
05 12 23 00-0757 LF 3-1/2" Diameter x 0.125" Round Steel Tubing	21.21	5.72
For >100 To 250, Deduct	-0.57	
For >250 To 500, Deduct	-1.10	
For >500 To 1,000, Deduct	-1.82	
For >1,000, Deduct	-2.54	
For 316 Stainless Steel, Add	43.49	
For Aluminum, Add	2.45	
For Galvanized Steel, Add	8.43	
For 304 Stainless Steel, Add	38.73	
05 12 23 00-0758 LF 4" Diameter x 0.125" Round Steel Tubing	24.35	6.57
For >100 To 250, Deduct	-0.66	
For >250 To 500, Deduct	-1.27	
For >500 To 1,000, Deduct	-2.09	
For >1,000, Deduct	-2.92	
For 316 Stainless Steel, Add	49.92	
For Aluminum, Add	2.81	
For Galvanized Steel, Add	9.67	
For 304 Stainless Steel, Add	44.46	
05 12 23 00-0759 Flat Steel Bar (05 12 23 00-0411)		
05 12 23 00-0760 1/8" Thick (05 12 23 00-0759)		
05 12 23 00-0761 LF 1/8" Thick x 1" Wide Flat Steel Bar	3.41	1.58
For 316 Stainless Steel, Add	3.33	
For Aluminum, Add	0.19	
For Galvanized Steel, Add	0.64	
For 304 Stainless Steel, Add	2.96	
05 12 23 00-0762 LF 1/8" Thick x 2" Wide Flat Steel Bar	5.29	2.37
For 316 Stainless Steel, Add	5.54	
For Aluminum, Add	0.31	
For Galvanized Steel, Add	1.07	
For 304 Stainless Steel, Add	4.93	
05 12 23 00-0763 LF 1/8" Thick x 4" Wide Flat Steel Bar	8.15	3.34
For 316 Stainless Steel, Add	10.05	
For Aluminum, Add	0.57	
For Galvanized Steel, Add	1.95	
For 304 Stainless Steel, Add	8.95	
05 12 23 00-0764 LF 1/8" Thick x 6" Wide Flat Steel Bar	11.05	4.53
For 316 Stainless Steel, Add	13.60	
For Aluminum, Add	0.77	
For Galvanized Steel, Add	2.64	
For 304 Stainless Steel, Add	12.11	
05 12 23 00-0765 3/16" Thick (05 12 23 00-0759)		

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0766	LF		3/16" Thick x 1" Wide Flat Steel Bar	4.52	1.96
			<i>For 316 Stainless Steel, Add</i>	5.06	
			<i>For Aluminum, Add</i>	0.28	
			<i>For Galvanized Steel, Add</i>	0.98	
			<i>For 304 Stainless Steel, Add</i>	4.50	
05 12 23 00-0767	LF		3/16" Thick x 2" Wide Flat Steel Bar	7.15	2.94
			<i>For 316 Stainless Steel, Add</i>	8.74	
			<i>For Aluminum, Add</i>	0.49	
			<i>For Galvanized Steel, Add</i>	1.69	
			<i>For 304 Stainless Steel, Add</i>	7.78	
05 12 23 00-0768	LF		3/16" Thick x 4" Wide Flat Steel Bar	9.69	3.38
			<i>For 316 Stainless Steel, Add</i>	14.75	
			<i>For Aluminum, Add</i>	0.83	
			<i>For Galvanized Steel, Add</i>	2.86	
			<i>For 304 Stainless Steel, Add</i>	13.14	
05 12 23 00-0769	LF		3/16" Thick x 6" Wide Flat Steel Bar	13.41	4.69
			<i>For 316 Stainless Steel, Add</i>	20.38	
			<i>For Aluminum, Add</i>	1.15	
			<i>For Galvanized Steel, Add</i>	3.95	
			<i>For 304 Stainless Steel, Add</i>	18.15	
05 12 23 00-0770			1/4" Thick <small>(05 12 23 00-0759)</small>		
05 12 23 00-0771	LF		1/4" Thick x 1" Wide Flat Steel Bar	4.67	2.07
			<i>For 316 Stainless Steel, Add</i>	4.99	
			<i>For Aluminum, Add</i>	0.28	
			<i>For Galvanized Steel, Add</i>	0.97	
			<i>For 304 Stainless Steel, Add</i>	4.45	
05 12 23 00-0772	LF		1/4" Thick x 2" Wide Flat Steel Bar	7.83	3.11
			<i>For 316 Stainless Steel, Add</i>	10.11	
			<i>For Aluminum, Add</i>	0.57	
			<i>For Galvanized Steel, Add</i>	1.96	
			<i>For 304 Stainless Steel, Add</i>	9.01	
05 12 23 00-0773	LF		1/4" Thick x 4" Wide Flat Steel Bar	11.46	3.56
			<i>For 316 Stainless Steel, Add</i>	19.58	
			<i>For Aluminum, Add</i>	1.10	
			<i>For Galvanized Steel, Add</i>	3.79	
			<i>For 304 Stainless Steel, Add</i>	17.44	
05 12 23 00-0774	LF		1/4" Thick x 6" Wide Flat Steel Bar	16.57	5.26
			<i>For 316 Stainless Steel, Add</i>	27.74	
			<i>For Aluminum, Add</i>	1.56	
			<i>For Galvanized Steel, Add</i>	5.38	
			<i>For 304 Stainless Steel, Add</i>	24.71	
05 12 23 00-0775			3/8" Thick <small>(05 12 23 00-0759)</small>		
05 12 23 00-0776	LF		3/8" Thick x 1" Wide Flat Steel Bar	5.95	2.34
			<i>For 316 Stainless Steel, Add</i>	7.84	
			<i>For Aluminum, Add</i>	0.44	
			<i>For Galvanized Steel, Add</i>	1.52	
			<i>For 304 Stainless Steel, Add</i>	6.98	
05 12 23 00-0777	LF		3/8" Thick x 2" Wide Flat Steel Bar	9.79	3.49
			<i>For 316 Stainless Steel, Add</i>	14.50	
			<i>For Aluminum, Add</i>	0.82	
			<i>For Galvanized Steel, Add</i>	2.81	
			<i>For 304 Stainless Steel, Add</i>	12.91	
05 12 23 00-0778	LF		3/8" Thick x 4" Wide Flat Steel Bar	15.05	3.99
			<i>For 316 Stainless Steel, Add</i>	28.96	
			<i>For Aluminum, Add</i>	1.63	
			<i>For Galvanized Steel, Add</i>	5.61	
			<i>For 304 Stainless Steel, Add</i>	25.79	
05 12 23 00-0779	LF		3/8" Thick x 6" Wide Flat Steel Bar	21.63	5.91
			<i>For 316 Stainless Steel, Add</i>	40.77	
			<i>For Aluminum, Add</i>	2.29	
			<i>For Galvanized Steel, Add</i>	7.90	
			<i>For 304 Stainless Steel, Add</i>	36.31	
05 12 23 00-0780			1/2" Thick <small>(05 12 23 00-0759)</small>		
05 12 23 00-0781	LF		1/2" Thick x 1" Wide Flat Steel Bar	7.00	2.56
			<i>For 316 Stainless Steel, Add</i>	10.05	
			<i>For Aluminum, Add</i>	0.57	
			<i>For Galvanized Steel, Add</i>	1.95	
			<i>For 304 Stainless Steel, Add</i>	8.95	
05 12 23 00-0782	LF		1/2" Thick x 2" Wide Flat Steel Bar	11.57	3.86
			<i>For 316 Stainless Steel, Add</i>	18.50	
			<i>For Aluminum, Add</i>	1.04	
			<i>For Galvanized Steel, Add</i>	3.58	
			<i>For 304 Stainless Steel, Add</i>	16.47	
05 12 23 00-0783	LF		1/2" Thick x 4" Wide Flat Steel Bar	16.44	4.39
			<i>For 316 Stainless Steel, Add</i>	31.49	
			<i>For Aluminum, Add</i>	1.77	
			<i>For Galvanized Steel, Add</i>	6.10	
			<i>For 304 Stainless Steel, Add</i>	28.04	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0784 LF 1/2" Thick x 6" Wide Flat Steel Bar For 316 Stainless Steel, Add For Aluminum, Add For Galvanized Steel, Add For 304 Stainless Steel, Add	29.40 62.82 3.53 12.17 55.95	6.51
05 12 23 00-0785 Flat Steel Plate (05 12 23 00-0411)		
05 12 23 00-0786 SF 1/8" Thick Flat Steel Plate For 316 Stainless Steel, Add For Aluminum, Add For Galvanized Steel, Add For 304 Stainless Steel, Add	17.62 23.71 1.33 4.59 21.12	6.80
05 12 23 00-0787 SF 3/16" Thick Flat Steel Plate For 316 Stainless Steel, Add For Aluminum, Add For Galvanized Steel, Add For 304 Stainless Steel, Add	19.84 29.66 1.67 5.75 26.42	7.04
05 12 23 00-0788 SF 1/4" Thick Flat Steel Plate For 316 Stainless Steel, Add For Aluminum, Add For Galvanized Steel, Add For 304 Stainless Steel, Add	23.66 37.82 2.13 7.33 33.69	7.89
05 12 23 00-0789 SF 3/8" Thick Flat Steel Plate For 316 Stainless Steel, Add For Aluminum, Add For Galvanized Steel, Add For 304 Stainless Steel, Add	31.88 59.36 3.34 11.50 52.87	8.87
05 12 23 00-0790 SF 1/2" Thick Flat Steel Plate For 316 Stainless Steel, Add For Aluminum, Add For Galvanized Steel, Add For 304 Stainless Steel, Add	37.76 73.95 4.16 14.33 65.86	9.76
05 12 23 00-0791 SF 3/4" Thick Flat Steel Plate For 316 Stainless Steel, Add For Aluminum, Add For Galvanized Steel, Add For 304 Stainless Steel, Add	61.65 138.66 7.80 26.86 123.49	12.09
05 12 23 00-0792 SF 1" Thick Flat Steel Plate For 316 Stainless Steel, Add For Aluminum, Add For Galvanized Steel, Add For 304 Stainless Steel, Add	82.22 189.86 10.68 36.78 169.09	15.11

05 13 Structural Stainless-Steel Framing (05 10)

05 13 00 00-0001 Stainless Steel Tube (05 13)		
05 13 00 00-0002 LF 1" x 1" Stainless Steel Tube.....	37.21	
05 13 00 00-0003 LF 1-1/2" x 1-1/2" Stainless Steel Tube	48.29	
05 13 00 00-0004 LF 2" x 2" Stainless Steel Tube.....	65.81	

05 14 Structural Aluminum Framing (05 10)

05 14 13 Architecturally-Exposed Structural Aluminum Framing (05 14)

05 14 13 00-0001 Rolled Or Plate Shapes (05 14 13) Note: 1" through 10" member.		
05 14 13 00-0002 LB Structural Aluminum, Up To 2,000 LB / Order 1" To 10" Rolled / Plate Structural Members	9.12	0.90
05 14 13 00-0003 LB Structural Aluminum, >2,000 - 9,999 LB / Order 1" To 10" Rolled / Plate Structural Members	8.03	0.84
05 14 13 00-0004 Aluminum Extrusions (05 14 13)		
05 14 13 00-0005 LB Aluminum Extrusions, Stock Shapes 1" To 10" Rolled / Plate Structural Members	14.99	3.74
05 14 13 00-0006 LB Aluminum Extrusions, Custom Shapes 1" To 10" Rolled / Plate Structural Members.....	15.86	3.74
05 14 13 00-0007 Aluminum Tubing (05 14 13)		
05 14 13 00-0008 LB Aluminum Extrusions, Tubular Shapes 1" To 10" Rolled / Plate Structural Members	13.45	2.33
05 14 13 00-0009 LF 1" x 1" Aluminum Tubing, 1/8" Wall Thickness	12.17	3.76
05 14 13 00-0010 LF 1-1/4" x 1-1/4" Aluminum Tubing, 1/8" Wall Thickness	14.68	4.10
05 14 13 00-0011 LF 1-1/2" x 1-1/2" Aluminum Tubing, 1/8" Wall Thickness	16.86	4.78
05 14 13 00-0012 LF 2" x 2" Aluminum Tubing, 1/8" Wall Thickness	20.01	5.14
05 14 13 00-0013 LF 4" x 4" Aluminum Tubing, 1/4" Wall Thickness	57.86	6.51
05 14 13 00-0014 LF 2" x 5" Aluminum Tubing, 1/4" Wall Thickness	47.42	5.82
05 14 13 00-0015 Columns (05 14 13) Note: Baked on paint finish, load bearing.		
05 14 13 00-0016 Round Columns (05 14 13 00-0015)		
05 14 13 00-0017 LF 6" Diameter Aluminum Column.....	53.42	7.37

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 14 13 00-0018 LF 8" Diameter Aluminum Column.....	71.03	10.55
05 14 13 00-0019 LF 10" Diameter Aluminum Column.....	86.73	11.86
05 14 13 00-0020 LF 12" Diameter Aluminum Column.....	130.50	12.42
05 14 13 00-0021 LF 15" Diameter Aluminum Column.....	166.64	14.39
05 14 13 00-0022 EA 6" Diameter Aluminum Base And Cap.....	103.80	13.74
05 14 13 00-0023 EA 8" Diameter Aluminum Base And Cap.....	118.88	14.83
05 14 13 00-0024 EA 10" Diameter Aluminum Base And Cap.....	150.23	16.48
05 14 13 00-0025 EA 12" Diameter Aluminum Base And Cap.....	260.49	17.58
05 14 13 00-0026 EA 15" Diameter Aluminum Base And Cap.....	399.43	19.23
05 14 13 00-0027 Octagonal Columns (05 14 13 00-0015)		
05 14 13 00-0028 LF 6" Diameter Aluminum Column.....	59.57	7.37
05 14 13 00-0029 LF 8" Diameter Aluminum Column.....	81.01	10.55
05 14 13 00-0030 LF 10" Diameter Aluminum Column.....	99.33	11.86
05 14 13 00-0031 LF 12" Diameter Aluminum Column.....	151.65	12.42
05 14 13 00-0032 LF 15" Diameter Aluminum Column.....	194.23	14.39
05 14 13 00-0033 EA 6" Diameter Aluminum Base And Cap.....	119.07	13.74
05 14 13 00-0034 EA 8" Diameter Aluminum Base And Cap.....	136.72	14.83
05 14 13 00-0035 EA 10" Diameter Aluminum Base And Cap.....	173.68	16.48
05 14 13 00-0036 EA 12" Diameter Aluminum Base And Cap.....	305.55	17.58
05 14 13 00-0037 EA 15" Diameter Aluminum Base And Cap.....	471.62	19.23
05 14 13 00-0038 Fluted Columns (05 14 13 00-0015)		
05 14 13 00-0039 LF 6" Diameter Aluminum Column.....	66.32	7.37
05 14 13 00-0040 LF 8" Diameter Aluminum Column.....	89.99	10.55
05 14 13 00-0041 LF 10" Diameter Aluminum Column.....	110.67	11.86
05 14 13 00-0042 LF 12" Diameter Aluminum Column.....	170.69	12.42
05 14 13 00-0043 LF 15" Diameter Aluminum Column.....	219.06	14.39
05 14 13 00-0044 EA 6" Diameter Aluminum Base And Cap.....	132.81	13.74
05 14 13 00-0045 EA 8" Diameter Aluminum Base And Cap.....	152.78	14.83
05 14 13 00-0046 EA 10" Diameter Aluminum Base And Cap.....	194.79	16.48
05 14 13 00-0047 EA 12" Diameter Aluminum Base And Cap.....	346.11	17.58
05 14 13 00-0048 EA 15" Diameter Aluminum Base And Cap.....	536.60	19.23
05 14 13 00-0049 Square Columns (05 14 13 00-0015)		
05 14 13 00-0050 LF 6" Aluminum Column.....	70.93	7.37
05 14 13 00-0051 LF 8" Aluminum Column.....	96.13	10.55
05 14 13 00-0052 LF 10" Aluminum Column.....	118.42	11.86
05 14 13 00-0053 LF 12" Aluminum Column.....	183.71	12.42
05 14 13 00-0054 LF 15" Aluminum Column.....	236.04	14.39
05 14 13 00-0055 EA 6" Aluminum Base And Cap.....	142.21	13.74
05 14 13 00-0056 EA 8" Aluminum Base And Cap.....	163.76	14.83
05 14 13 00-0057 EA 10" Aluminum Base And Cap.....	209.22	16.48
05 14 13 00-0058 EA 12" Aluminum Base And Cap.....	373.84	17.58
05 14 13 00-0059 EA 15" Aluminum Base And Cap.....	581.03	19.23
05 14 13 00-0060 Ornamental Or Decorative Cap And Bases (05 14 13 00-0015)		
05 14 13 00-0061 EA 8" Corinthian Capital And Base.....	810.09	16.48
05 14 13 00-0062 EA 10" Corinthian Capital And Base.....	1,192.51	19.23
05 14 13 00-0063 EA 12" Corinthian Capital And Base.....	1,887.11	21.97
05 14 13 00-0064 EA 8" Scamozzi Capital And Base.....	401.60	16.48
05 14 13 00-0065 EA 10" Scamozzi Capital And Base.....	538.27	19.23
05 14 13 00-0066 EA 12" Scamozzi Capital And Base.....	1,084.09	21.97
05 15 Wire Rope Assemblies (05 10)		
05 15 16 Steel Wire Rope Assemblies (05 15)		
05 15 16 00-0001 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope (05 15 16)		
05 15 16 00-0002 LF 1/4" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	1.57	0.11
For >500, Deduct	-0.28	
05 15 16 00-0003 LF 5/16" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	2.11	0.11
For >500, Deduct	-0.36	
05 15 16 00-0004 LF 3/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	2.51	0.22
For >500, Deduct	-0.42	
05 15 16 00-0005 LF 7/16" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	3.04	0.22
For >500, Deduct	-0.49	
05 15 16 00-0006 LF 1/2" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	3.51	0.34
For >500, Deduct	-0.55	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 15 16 00-0007	LF		9/16" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	4.31	0.45
			<i>For >500, Deduct</i>	-0.66	
05 15 16 00-0008	LF		5/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	5.15	0.45
			<i>For >500, Deduct</i>	-0.78	
05 15 16 00-0009	LF		3/4" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	7.15	0.79
			<i>For >500, Deduct</i>	-1.07	
05 15 16 00-0010	LF		7/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	9.60	0.91
			<i>For >500, Deduct</i>	-1.44	
05 15 16 00-0011	LF		1" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	11.97	1.24
			<i>For >500, Deduct</i>	-1.76	
05 15 16 00-0012	LF		1-1/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	14.80	1.58
			<i>For >500, Deduct</i>	-2.17	
05 15 16 00-0013	LF		1-1/4" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	18.04	1.91
			<i>For >500, Deduct</i>	-2.64	
05 15 16 00-0014			6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope <small>(05 15 16)</small>		
05 15 16 00-0015	LF		1/4" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	1.84	0.11
			<i>For >500, Deduct</i>	-0.33	
05 15 16 00-0016	LF		5/16" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	2.38	0.11
			<i>For >500, Deduct</i>	-0.42	
05 15 16 00-0017	LF		3/8" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	2.96	0.22
			<i>For >500, Deduct</i>	-0.51	
05 15 16 00-0018	LF		7/16" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	3.38	0.22
			<i>For >500, Deduct</i>	-0.56	
05 15 16 00-0019	LF		1/2" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	4.02	0.34
			<i>For >500, Deduct</i>	-0.65	
05 15 16 00-0020	LF		9/16" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	4.64	0.45
			<i>For >500, Deduct</i>	-0.73	
05 15 16 00-0021	LF		5/8" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	5.42	0.45
			<i>For >500, Deduct</i>	-0.84	
05 15 16 00-0022	LF		3/4" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	7.96	0.79
			<i>For >500, Deduct</i>	-1.24	
05 15 16 00-0023	LF		7/8" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	10.21	0.91
			<i>For >500, Deduct</i>	-1.56	
05 15 16 00-0024	LF		1" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	12.57	1.24
			<i>For >500, Deduct</i>	-1.89	
05 15 16 00-0025	LF		1-1/8" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	16.08	1.58
			<i>For >500, Deduct</i>	-2.41	
05 15 16 00-0026	LF		1-1/4" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	19.57	1.91
			<i>For >500, Deduct</i>	-2.95	
05 15 16 00-0027			6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope <small>(05 15 16)</small>		
05 15 16 00-0028	LF		1/4" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	1.46	0.11
			<i>For >500, Deduct</i>	-0.25	
05 15 16 00-0029	LF		5/16" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	1.98	0.11
			<i>For >500, Deduct</i>	-0.34	
05 15 16 00-0030	LF		3/8" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	2.36	0.22
			<i>For >500, Deduct</i>	-0.39	
05 15 16 00-0031	LF		7/16" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	2.78	0.22
			<i>For >500, Deduct</i>	-0.44	
05 15 16 00-0032	LF		1/2" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	3.35	0.34
			<i>For >500, Deduct</i>	-0.51	
05 15 16 00-0033	LF		9/16" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	4.24	0.45
			<i>For >500, Deduct</i>	-0.65	
05 15 16 00-0034	LF		5/8" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	4.95	0.45
			<i>For >500, Deduct</i>	-0.74	
05 15 16 00-0035	LF		3/4" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	6.96	0.79
			<i>For >500, Deduct</i>	-1.04	
05 15 16 00-0036	LF		7/8" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	8.53	0.91
			<i>For >500, Deduct</i>	-1.22	

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

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 15 16 00-0037	LF	1" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope..... <i>For >500, Deduct</i>	10.84 -1.53	1.24
05 15 16 00-0038		6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope <small>(05 15 16)</small>		
05 15 16 00-0039	LF	1/4" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope..... <i>For >500, Deduct</i>	1.44 -0.25	0.11
05 15 16 00-0040	LF	5/16" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope..... <i>For >500, Deduct</i>	1.91 -0.32	0.11
05 15 16 00-0041	LF	3/8" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope..... <i>For >500, Deduct</i>	2.36 -0.39	0.22
05 15 16 00-0042	LF	7/16" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope..... <i>For >500, Deduct</i>	2.78 -0.44	0.22
05 15 16 00-0043	LF	1/2" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope..... <i>For >500, Deduct</i>	3.50 -0.54	0.34
05 15 16 00-0044	LF	9/16" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope..... <i>For >500, Deduct</i>	4.17 -0.63	0.45
05 15 16 00-0045	LF	5/8" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope..... <i>For >500, Deduct</i>	5.22 -0.80	0.45
05 15 16 00-0046	LF	3/4" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope..... <i>For >500, Deduct</i>	7.29 -1.10	0.79
05 15 16 00-0047	LF	7/8" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope..... <i>For >500, Deduct</i>	9.53 -1.42	0.91
05 15 16 00-0048	LF	1" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope..... <i>For >500, Deduct</i>	11.77 -1.73	1.24
05 15 16 00-0049		6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope <small>(05 15 16)</small>		
05 15 16 00-0050	LF	3/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope..... <i>For >500, Deduct</i>	2.67 -0.45	0.22
05 15 16 00-0051	LF	7/16" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope..... <i>For >500, Deduct</i>	3.15 -0.51	0.22
05 15 16 00-0052	LF	1/2" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope..... <i>For >500, Deduct</i>	3.68 -0.58	0.34
05 15 16 00-0053	LF	9/16" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope..... <i>For >500, Deduct</i>	4.95 -0.79	0.45
05 15 16 00-0054	LF	5/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope..... <i>For >500, Deduct</i>	5.46 -0.85	0.45
05 15 16 00-0055	LF	3/4" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope..... <i>For >500, Deduct</i>	7.46 -1.14	0.79
05 15 16 00-0056	LF	7/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope..... <i>For >500, Deduct</i>	9.57 -1.43	0.91
05 15 16 00-0057	LF	1" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope..... <i>For >500, Deduct</i>	12.61 -1.88	1.24
05 15 16 00-0058	LF	1-1/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope..... <i>For >500, Deduct</i>	15.28 -2.26	1.58
05 15 16 00-0059	LF	1-1/4" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope..... <i>For >500, Deduct</i>	18.44 -2.72	1.91
05 15 16 00-0060		6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope <small>(05 15 16)</small>		
05 15 16 00-0061	LF	3/8" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope..... <i>For >500, Deduct</i>	2.74 -0.46	0.22
05 15 16 00-0062	LF	7/16" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope..... <i>For >500, Deduct</i>	3.33 -0.55	0.22
05 15 16 00-0063	LF	1/2" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope..... <i>For >500, Deduct</i>	3.93 -0.63	0.34
05 15 16 00-0064	LF	9/16" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope..... <i>For >500, Deduct</i>	5.50 -0.90	0.45
05 15 16 00-0065	LF	5/8" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope..... <i>For >500, Deduct</i>	5.55 -0.86	0.45
05 15 16 00-0066	LF	3/4" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope..... <i>For >500, Deduct</i>	7.64 -1.17	0.79



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 15 16 00-0067	LF		7/8" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	10.11	0.91
			<i>For >500, Deduct</i>	-1.54	
05 15 16 00-0068	LF		1" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	12.79	1.24
			<i>For >500, Deduct</i>	-1.92	
05 15 16 00-0069 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope ^(05 15 16)					
05 15 16 00-0070	LF		1/4" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope	2.83	0.11
			<i>For >500, Deduct</i>	-0.52	
05 15 16 00-0071	LF		5/16" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope	3.06	0.11
			<i>For >500, Deduct</i>	-0.55	
05 15 16 00-0072	LF		3/8" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope	3.60	0.22
			<i>For >500, Deduct</i>	-0.64	
05 15 16 00-0073	LF		7/16" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope	4.84	0.22
			<i>For >500, Deduct</i>	-0.85	
05 15 16 00-0074	LF		1/2" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope	5.51	0.22
			<i>For >500, Deduct</i>	-0.98	
05 15 16 00-0075	LF		9/16" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope	6.37	0.45
			<i>For >500, Deduct</i>	-1.08	
05 15 16 00-0076	LF		5/8" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope	7.58	0.45
			<i>For >500, Deduct</i>	-1.27	
05 15 16 00-0077	LF		3/4" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope	10.44	0.67
			<i>For >500, Deduct</i>	-1.74	
05 15 16 00-0078 7x7, Galvanized Finish, Aircraft Cable ^(05 15 16)					
05 15 16 00-0079	LF		1/16" Diameter, 7x7, Galvanized Finish, Aircraft Cable	0.32	0.08
			<i>For >500, Deduct</i>	-0.04	
05 15 16 00-0080	LF		3/32" Diameter, 7x7, Galvanized Finish, Aircraft Cable	0.37	0.09
			<i>For >500, Deduct</i>	-0.05	
05 15 16 00-0081	LF		1/8" Diameter, 7x7, Galvanized Finish, Aircraft Cable	0.42	0.10
			<i>For >500, Deduct</i>	-0.05	
05 15 16 00-0082	LF		5/32" Diameter, 7x7, Galvanized Finish, Aircraft Cable	0.48	0.11
			<i>For >500, Deduct</i>	-0.06	
05 15 16 00-0083	LF		3/16" Diameter, 7x7, Galvanized Finish, Aircraft Cable	0.59	0.11
			<i>For >500, Deduct</i>	-0.08	
05 15 16 00-0084 7x19, Galvanized Finish, Aircraft Cable ^(05 15 16)					
05 15 16 00-0085	LF		1/8" Diameter, 7x19, Galvanized Finish, Aircraft Cable	0.58	0.10
			<i>For >500, Deduct</i>	-0.08	
05 15 16 00-0086	LF		5/32" Diameter, 7x19, Galvanized Finish, Aircraft Cable	0.62	0.11
			<i>For >500, Deduct</i>	-0.09	
05 15 16 00-0087	LF		3/16" Diameter, 7x19, Galvanized Finish, Aircraft Cable	0.72	0.11
			<i>For >500, Deduct</i>	-0.10	
05 15 16 00-0088	LF		1/4" Diameter, 7x19, Galvanized Finish, Aircraft Cable	0.84	0.11
			<i>For >500, Deduct</i>	-0.13	
05 15 16 00-0089	LF		5/16" Diameter, 7x19, Galvanized Finish, Aircraft Cable	1.27	0.11
			<i>For >500, Deduct</i>	-0.19	
05 15 16 00-0090	LF		3/8" Diameter, 7x19, Galvanized Finish, Aircraft Cable	1.71	0.11
			<i>For >500, Deduct</i>	-0.26	
05 15 16 00-0091 Heavy Duty, Galvanized Steel, Wire Rope Thimbles ^(05 15 16)					
05 15 16 00-0092	EA		1/4" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble	14.26	3.38
05 15 16 00-0093	EA		5/16" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble	16.10	3.38
05 15 16 00-0094	EA		3/8" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble	18.14	3.38
05 15 16 00-0095	EA		7/16" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble	23.75	3.38
05 15 16 00-0096	EA		1/2" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble	23.78	3.38
05 15 16 00-0097	EA		9/16" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble	23.78	3.38
05 15 16 00-0098	EA		5/8" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble	25.67	3.38
05 15 16 00-0099	EA		3/4" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble	46.75	5.19
05 15 16 00-0100	EA		7/8" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble	55.21	6.32
05 15 16 00-0101	EA		1" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble	98.13	10.37
05 15 16 00-0102	EA		1-1/8" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble	140.73	14.10
05 15 16 00-0103	EA		1-1/4" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble	140.73	14.10
05 15 16 00-0104 Galvanized Steel, Wire Rope Clips ^(05 15 16)					
05 15 16 00-0105	EA		1/8" Diameter, Galvanized Steel, Wire Rope Clip	16.38	3.38
05 15 16 00-0106	EA		3/16" Diameter, Galvanized Steel, Wire Rope Clip	16.69	3.38

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 15 16 00-0107 EA 1/4" Diameter, Galvanized Steel, Wire Rope Clip	18.86	3.38
05 15 16 00-0108 EA 5/16" Diameter, Galvanized Steel, Wire Rope Clip	19.19	3.38
05 15 16 00-0109 EA 3/8" Diameter, Galvanized Steel, Wire Rope Clip	19.67	3.38
05 15 16 00-0110 EA 7/16" Diameter, Galvanized Steel, Wire Rope Clip	24.31	3.38
05 15 16 00-0111 EA 1/2" Diameter, Galvanized Steel, Wire Rope Clip	24.67	3.38
05 15 16 00-0112 EA 9/16" Diameter, Galvanized Steel, Wire Rope Clip	28.06	3.38
05 15 16 00-0113 EA 5/8" Diameter, Galvanized Steel, Wire Rope Clip	28.55	3.38
05 15 16 00-0114 EA 3/4" Diameter, Galvanized Steel, Wire Rope Clip	39.32	4.51
05 15 16 00-0115 EA 7/8" Diameter, Galvanized Steel, Wire Rope Clip	59.04	6.77
05 15 16 00-0116 EA 1" Diameter, Galvanized Steel, Wire Rope Clip	64.63	6.77
05 15 16 00-0117 EA 1-1/8" Diameter, Galvanized Steel, Wire Rope Clip	76.32	9.02
05 15 16 00-0118 EA 1-1/4" Diameter, Galvanized Steel, Wire Rope Clip	110.90	13.54
05 15 16 00-0119 Steel, Open Swage Sockets (05 15 16)		
05 15 16 00-0120 EA 1/4" Diameter, Steel, Open Swage Socket	92.39	3.38
05 15 16 00-0121 EA 5/16" Diameter, Steel, Open Swage Socket	147.29	3.38
05 15 16 00-0122 EA 3/8" Diameter, Steel, Open Swage Socket	151.75	4.51
05 15 16 00-0123 EA 7/16" Diameter, Steel, Open Swage Socket	180.48	5.64
05 15 16 00-0124 EA 1/2" Diameter, Steel, Open Swage Socket	180.48	5.64
05 15 16 00-0125 EA 9/16" Diameter, Steel, Open Swage Socket	264.27	12.41
05 15 16 00-0126 EA 5/8" Diameter, Steel, Open Swage Socket	264.27	12.41
05 15 16 00-0127 EA 3/4" Diameter, Steel, Open Swage Socket	338.07	23.69
05 15 16 00-0128 EA 7/8" Diameter, Steel, Open Swage Socket	455.15	33.84
05 15 16 00-0129 EA 1" Diameter, Steel, Open Swage Socket	640.96	51.89
05 15 16 00-0130 EA 1-1/8" Diameter, Steel, Open Swage Socket	842.43	81.22
05 15 16 00-0131 EA 1-1/4" Diameter, Steel, Open Swage Socket	980.84	93.63
05 15 16 00-0132 Steel, Closed Swage Sockets (05 15 16)		
05 15 16 00-0133 EA 1/4" Diameter, Steel, Closed Swage Socket	74.35	3.38
05 15 16 00-0134 EA 5/16" Diameter, Steel, Closed Swage Socket	100.59	3.38
05 15 16 00-0135 EA 3/8" Diameter, Steel, Closed Swage Socket	100.59	3.38
05 15 16 00-0136 EA 7/16" Diameter, Steel, Closed Swage Socket	125.43	4.51
05 15 16 00-0137 EA 1/2" Diameter, Steel, Closed Swage Socket	126.66	4.51
05 15 16 00-0138 EA 9/16" Diameter, Steel, Closed Swage Socket	173.90	7.90
05 15 16 00-0139 EA 5/8" Diameter, Steel, Closed Swage Socket	179.27	9.02
05 15 16 00-0140 EA 3/4" Diameter, Steel, Closed Swage Socket	221.83	14.66
05 15 16 00-0141 EA 7/8" Diameter, Steel, Closed Swage Socket	286.89	21.43
05 15 16 00-0142 EA 1" Diameter, Steel, Closed Swage Socket	410.34	29.33
05 15 16 00-0143 EA 1-1/8" Diameter, Steel, Closed Swage Socket	508.74	40.61
05 15 16 00-0144 EA 1-1/4" Diameter, Steel, Closed Swage Socket	690.07	63.17
05 15 16 00-0145 Galvanized Steel, Open Spelter Sockets (05 15 16)		
05 15 16 00-0146 EA 1/4" Galvanized Steel, Open Spelter Socket	154.61	3.38
05 15 16 00-0147 EA 5/16" Galvanized Steel, Open Spelter Socket	158.65	3.38
05 15 16 00-0148 EA 3/8" Galvanized Steel, Open Spelter Socket	158.65	3.38
05 15 16 00-0149 EA 7/16" Galvanized Steel, Open Spelter Socket	177.34	6.77
05 15 16 00-0150 EA 1/2" Galvanized Steel, Open Spelter Socket	177.34	6.77
05 15 16 00-0151 EA 9/16" Galvanized Steel, Open Spelter Socket	232.68	11.28
05 15 16 00-0152 EA 5/8" Galvanized Steel, Open Spelter Socket	232.68	11.28
05 15 16 00-0153 EA 3/4" Galvanized Steel, Open Spelter Socket	294.77	16.92
05 15 16 00-0154 EA 7/8" Galvanized Steel, Open Spelter Socket	441.09	28.20
05 15 16 00-0155 EA 1" Galvanized Steel, Open Spelter Socket	801.91	43.99
05 15 16 00-0156 EA 1-1/8" Galvanized Steel, Open Spelter Socket	943.33	71.07
05 15 16 00-0157 EA 1-1/4" Galvanized Steel, Open Spelter Socket	1,275.03	93.63
05 15 16 00-0158 Galvanized Steel, Closed Spelter Sockets (05 15 16)		
05 15 16 00-0159 EA 1/4" Galvanized Steel, Closed Spelter Socket	129.65	3.38
05 15 16 00-0160 EA 5/16" Galvanized Steel, Closed Spelter Socket	130.17	3.38
05 15 16 00-0161 EA 3/8" Galvanized Steel, Closed Spelter Socket	130.17	3.38
05 15 16 00-0162 EA 7/16" Galvanized Steel, Closed Spelter Socket	145.94	5.64
05 15 16 00-0163 EA 1/2" Galvanized Steel, Closed Spelter Socket	145.94	5.64
05 15 16 00-0164 EA 9/16" Galvanized Steel, Closed Spelter Socket	204.33	10.15
05 15 16 00-0165 EA 5/8" Galvanized Steel, Closed Spelter Socket	204.33	10.15
05 15 16 00-0166 EA 3/4" Galvanized Steel, Closed Spelter Socket	250.70	14.66
05 15 16 00-0167 EA 7/8" Galvanized Steel, Closed Spelter Socket	366.07	22.56
05 15 16 00-0168 EA 1" Galvanized Steel, Closed Spelter Socket	552.87	34.97
05 15 16 00-0169 EA 1-1/8" Galvanized Steel, Closed Spelter Socket	723.78	47.38
05 15 16 00-0170 EA 1-1/4" Galvanized Steel, Closed Spelter Socket	912.00	63.17
05 15 16 00-0171 Forged Steel, Jaw And Jaw Turnbuckles (05 15 16)		
05 15 16 00-0172 EA 1/4" x 4", Forged Steel, Jaw And Jaw Turnbuckle	89.18	3.38
For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-11.69	
05 15 16 00-0173 EA 5/16" x 4-1/2", Forged Steel, Jaw And Jaw Turnbuckle	95.66	3.38
For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-12.66	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 15 16 00-0174 EA 3/8" x 6", Forged Steel, Jaw And Jaw Turnbuckle <i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	107.66 -14.46	3.38
05 15 16 00-0175 EA 1/2" x 6", Forged Steel, Jaw And Jaw Turnbuckle <i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	119.22 -15.04	4.51
05 15 16 00-0176 EA 1/2" x 9", Forged Steel, Jaw And Jaw Turnbuckle <i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	156.93 -20.01	5.64
05 15 16 00-0177 EA 1/2" x 12", Forged Steel, Jaw And Jaw Turnbuckle <i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	178.28 -22.67	6.77
05 15 16 00-0178 EA 5/8" x 6", Forged Steel, Jaw And Jaw Turnbuckle <i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	181.34 -21.99	9.02
05 15 16 00-0179 EA 5/8" x 9", Forged Steel, Jaw And Jaw Turnbuckle <i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	224.46 -28.03	9.02
05 15 16 00-0180 EA 5/8" x 12", Forged Steel, Jaw And Jaw Turnbuckle <i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	254.92 -32.19	10.15
05 15 16 00-0181 EA 3/4" x 6", Forged Steel, Jaw And Jaw Turnbuckle <i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	244.50 -29.48	12.41
05 15 16 00-0182 EA 3/4" x 9", Forged Steel, Jaw And Jaw Turnbuckle <i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	278.23 -32.83	14.66
05 15 16 00-0183 EA 3/4" x 12", Forged Steel, Jaw And Jaw Turnbuckle <i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	343.82 -41.90	15.79
05 15 16 00-0184 EA 3/4" x 18", Forged Steel, Jaw And Jaw Turnbuckle <i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	413.63 -50.37	19.18
05 15 16 00-0185 EA 7/8" x 12", Forged Steel, Jaw And Jaw Turnbuckle <i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	470.33 -54.43	27.07
05 15 16 00-0186 EA 7/8" x 18", Forged Steel, Jaw And Jaw Turnbuckle <i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	570.60 -66.79	31.59
05 15 16 00-0187 EA 1" x 6", Forged Steel, Jaw And Jaw Turnbuckle <i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	488.70 -57.19	27.07
05 15 16 00-0188 EA 1" x 12", Forged Steel, Jaw And Jaw Turnbuckle <i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	558.74 -62.66	34.97
05 15 16 00-0189 EA 1" x 18", Forged Steel, Jaw And Jaw Turnbuckle <i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	766.61 -88.96	43.99
05 15 16 00-0190 EA 1" x 24", Forged Steel, Jaw And Jaw Turnbuckle <i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	856.99 -97.78	51.89
05 15 16 00-0191 EA 1-1/4" x 12", Forged Steel, Jaw And Jaw Turnbuckle <i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	954.36 -105.55	63.17
05 15 16 00-0192 EA 1-1/4" x 18", Forged Steel, Jaw And Jaw Turnbuckle <i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	1,152.79 -130.62	71.07
05 15 16 00-0193 EA 1-1/4" x 24", Forged Steel, Jaw And Jaw Turnbuckle <i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	1,494.32 -175.80	81.22
05 15 16 00-0194 EA 1-1/2" x 12", Forged Steel, Jaw And Jaw Turnbuckle <i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	1,476.74 -169.45	86.86
05 15 16 00-0195 EA 1-1/2" x 18", Forged Steel, Jaw And Jaw Turnbuckle <i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	1,623.24 -175.80	112.80
05 15 16 00-0196 EA 1-1/2" x 24", Forged Steel, Jaw And Jaw Turnbuckle <i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	2,929.24 -354.78	146.65
05 15 16 00-0197 EA 2" x 24", Forged Steel, Jaw And Jaw Turnbuckle <i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	4,799.43 -550.70	282.01
 05 15 16 00-0198 Galvanized Steel, Drop Forged, Shoulder Eye Bolts (05 15 16)		
05 15 16 00-0199 EA 1/4" Diameter Thread, 3/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	19.10	
05 15 16 00-0200 EA 5/16" Diameter Thread, 7/8" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	19.19	
05 15 16 00-0201 EA 3/8" Diameter Thread, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	21.63	
05 15 16 00-0202 EA 7/16" Diameter Thread, 1-3/32" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	25.84	
05 15 16 00-0203 EA 1/2" Diameter Thread, 1-3/16" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	25.72	
05 15 16 00-0204 EA 5/8" Diameter Thread, 1-3/8" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	35.18	
05 15 16 00-0205 EA 3/4" Diameter Thread, 1-1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	42.26	
05 15 16 00-0206 EA 7/8" Diameter Thread, 1-11/16" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	57.12	
05 15 16 00-0207 EA 1" Diameter Thread, 1-13/16" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	76.63	
05 15 16 00-0208 EA 1-1/8" Diameter Thread, 2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	111.54	
05 15 16 00-0209 EA 1-1/4" Diameter Thread, 2-3/16" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	132.71	
05 15 16 00-0210 EA 1-1/2" Diameter Thread, 2-1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	241.28	
05 15 16 00-0211 EA 1-3/4" Diameter Thread, 2-7/8" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	276.74	
05 15 16 00-0212 EA 2" Diameter Thread, 3-1/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	342.28	
 05 15 16 00-0213 Galvanized Steel, Drop Forged, Eye Bolts (05 15 16)		
05 15 16 00-0214 EA 1/4" Diameter Thread, 3" Shank Length, 1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	25.13	
05 15 16 00-0215 EA 1/4" Diameter Thread, 4" Shank Length, 1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	22.67	
05 15 16 00-0216 EA 5/16" Diameter Thread, 2-1/4" Shank Length, 5/8" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	30.77	
05 15 16 00-0217 EA 5/16" Diameter Thread, 4-1/4" Shank Length, 5/8" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	20.64	
05 15 16 00-0218 EA 3/8" Diameter Thread, 2-1/2" Shank Length, 3/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	27.88	
05 15 16 00-0219 EA 3/8" Diameter Thread, 3" Shank Length, 3/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	42.05	
05 15 16 00-0220 EA 3/8" Diameter Thread, 4" Shank Length, 3/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	40.77	
05 15 16 00-0221 EA 3/8" Diameter Thread, 4-1/2" Shank Length, 3/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	38.74	
05 15 16 00-0222 EA 3/8" Diameter Thread, 5" Shank Length, 3/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	34.72	
05 15 16 00-0223 EA 3/8" Diameter Thread, 6" Shank Length, 3/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	35.85	
05 15 16 00-0224 EA 1/2" Diameter Thread, 2" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	31.68	
05 15 16 00-0225 EA 1/2" Diameter Thread, 3" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	25.25	
05 15 16 00-0226 EA 1/2" Diameter Thread, 3-1/4" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	32.90	
05 15 16 00-0227 EA 1/2" Diameter Thread, 4" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	44.95	
05 15 16 00-0228 EA 1/2" Diameter Thread, 4-1/2" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	34.12	

05 Metals**05 10 Structural Metal Framing****05 15 Wire Rope Assemblies**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

05 15 16 00-0229	EA	1/2" Diameter Thread, 6" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	54.93	
05 15 16 00-0230	EA	1/2" Diameter Thread, 8" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	48.35	
05 15 16 00-0231	EA	1/2" Diameter Thread, 10" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	44.11	
05 15 16 00-0232	EA	1/2" Diameter Thread, 12" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	51.89	
05 15 16 00-0233	EA	5/8" Diameter Thread, 4" Shank Length, 1-1/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	52.66	
05 15 16 00-0234	EA	5/8" Diameter Thread, 4-1/2" Shank Length, 1-1/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	46.88	
05 15 16 00-0235	EA	5/8" Diameter Thread, 6" Shank Length, 1-1/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	59.00	
05 15 16 00-0236	EA	5/8" Diameter Thread, 8" Shank Length, 1-1/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	67.65	
05 15 16 00-0237	EA	5/8" Diameter Thread, 10" Shank Length, 1-1/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	78.03	
05 15 16 00-0238	EA	5/8" Diameter Thread, 12" Shank Length, 1-1/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	64.45	
05 15 16 00-0239	EA	3/4" Diameter Thread, 4-1/2" Shank Length, 1-1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	64.41	
05 15 16 00-0240	EA	3/4" Diameter Thread, 6" Shank Length, 1-1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	65.70	
05 15 16 00-0241	EA	3/4" Diameter Thread, 8" Shank Length, 1-1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	72.64	
05 15 16 00-0242	EA	3/4" Diameter Thread, 10" Shank Length, 1-1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	78.35	
05 15 16 00-0243	EA	3/4" Diameter Thread, 12" Shank Length, 1-1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	91.57	
05 15 16 00-0244	EA	1" Diameter Thread, 8" Shank Length, 2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	121.27	

05 15 19 Stainless Steel Wire Rope Assemblies (05 15 19)**05 15 19 00-0001 7x7, 304 Stainless Steel, Aircraft Cable** (05 15 19)

05 15 19 00-0002	LF	1/16" Diameter, 7x7, 304 Stainless Steel, Aircraft Cable.....	0.27	0.08
		<i>For >500, Deduct</i>	-0.03	
05 15 19 00-0003	LF	3/32" Diameter, 7x7, 304 Stainless Steel, Aircraft Cable.....	0.35	0.09
		<i>For >500, Deduct</i>	-0.04	
05 15 19 00-0004	LF	1/8" Diameter, 7x7, 304 Stainless Steel, Aircraft Cable.....	0.45	0.10
		<i>For >500, Deduct</i>	-0.06	
05 15 19 00-0005	LF	5/32" Diameter, 7x7, 304 Stainless Steel, Aircraft Cable.....	0.57	0.11
		<i>For >500, Deduct</i>	-0.08	
05 15 19 00-0006	LF	3/16" Diameter, 7x7, 304 Stainless Steel, Aircraft Cable.....	0.72	0.11
		<i>For >500, Deduct</i>	-0.10	

05 15 19 00-0007 7x19, 304 Stainless Steel, Aircraft Cable (05 15 19)

05 15 19 00-0008	LF	1/8" Diameter, 7x19, 304 Stainless Steel, Aircraft Cable.....	0.51	0.10
		<i>For >500, Deduct</i>	-0.07	
05 15 19 00-0009	LF	5/32" Diameter, 7x19, 304 Stainless Steel, Aircraft Cable.....	0.58	0.11
		<i>For >500, Deduct</i>	-0.08	
05 15 19 00-0010	LF	3/16" Diameter, 7x19, 304 Stainless Steel, Aircraft Cable.....	0.68	0.11
		<i>For >500, Deduct</i>	-0.09	
05 15 19 00-0011	LF	1/4" Diameter, 7x19, 304 Stainless Steel, Aircraft Cable.....	0.85	0.11
		<i>For >500, Deduct</i>	-0.13	
05 15 19 00-0012	LF	5/16" Diameter, 7x19, 304 Stainless Steel, Aircraft Cable.....	1.29	0.11
		<i>For >500, Deduct</i>	-0.20	
05 15 19 00-0013	LF	3/8" Diameter, 7x19, 304 Stainless Steel, Aircraft Cable.....	1.93	0.22
		<i>For >500, Deduct</i>	-0.30	

05 15 19 00-0014 7x7, 316 Stainless Steel, Aircraft Cable (05 15 19)

05 15 19 00-0015	LF	1/16" Diameter, 7x7, 316 Stainless Steel, Aircraft Cable.....	0.27	0.08
		<i>For >500, Deduct</i>	-0.03	
05 15 19 00-0016	LF	3/32" Diameter, 7x7, 316 Stainless Steel, Aircraft Cable.....	0.35	0.09
		<i>For >500, Deduct</i>	-0.04	
05 15 19 00-0017	LF	1/8" Diameter, 7x7, 316 Stainless Steel, Aircraft Cable.....	0.45	0.10
		<i>For >500, Deduct</i>	-0.06	
05 15 19 00-0018	LF	5/32" Diameter, 7x7, 316 Stainless Steel, Aircraft Cable.....	0.57	0.11
		<i>For >500, Deduct</i>	-0.08	
05 15 19 00-0019	LF	3/16" Diameter, 7x7, 316 Stainless Steel, Aircraft Cable.....	0.72	0.11
		<i>For >500, Deduct</i>	-0.10	

05 15 19 00-0020 7x19, 316 Stainless Steel, Aircraft Cable (05 15 19)

05 15 19 00-0021	LF	1/8" Diameter, 7x19, 316 Stainless Steel, Aircraft Cable.....	0.51	0.10
		<i>For >500, Deduct</i>	-0.07	
05 15 19 00-0022	LF	5/32" Diameter, 7x19, 316 Stainless Steel, Aircraft Cable.....	0.58	0.11
		<i>For >500, Deduct</i>	-0.08	
05 15 19 00-0023	LF	3/16" Diameter, 7x19, 316 Stainless Steel, Aircraft Cable.....	0.68	0.11
		<i>For >500, Deduct</i>	-0.09	
05 15 19 00-0024	LF	1/4" Diameter, 7x19, 316 Stainless Steel, Aircraft Cable.....	0.85	0.11
		<i>For >500, Deduct</i>	-0.13	
05 15 19 00-0025	LF	5/16" Diameter, 7x19, 316 Stainless Steel, Aircraft Cable.....	1.29	0.11
		<i>For >500, Deduct</i>	-0.20	
05 15 19 00-0026	LF	3/8" Diameter, 7x19, 316 Stainless Steel, Aircraft Cable.....	1.93	0.11
		<i>For >500, Deduct</i>	-0.30	

05 20 Metal Joists (05)

Note: Includes all connecting bolts and welds.

05 21 Steel Joist Framing (05 20)**05 21 19 Open Web Steel Joist Framing** (05 21)



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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 21 19 00-0001	TON	H, J Or K	Open Web Joist, Up To 30' Span, Steel, Horizontal Bridging..... <i>For Welded Cross Bridging, Add</i> <i>For Shop Prime Paint Other Than Manufacturer's Standard, Add</i>	2,681.84 243.62 224.37	194.90
05 21 19 00-0002	TON	H, J Or K	Open Web Joist, >30' To 50' Span, Steel, Horizontal Bridging <i>For Welded Cross Bridging, Add</i> <i>For Shop Prime Paint Other Than Manufacturer's Standard, Add</i>	2,458.05 216.55 208.35	182.71
05 21 19 00-0003	TON	LJ Or LH	Open Web Joist, Up To 96' Span, Steel, Bolted Cross Bridging..... <i>For Welded Cross Bridging, Add</i> <i>For Shop Prime Paint Other Than Manufacturer's Standard, Add</i>	2,949.99 224.87 264.05	182.71
05 21 19 00-0004	TON	DLJ Or DLH	Open Web Joist, Up To 144' Span, Steel, Bolted Cross Bridging <i>For Welded Cross Bridging, Add</i> <i>For Shop Prime Paint Other Than Manufacturer's Standard, Add</i>	3,341.17 224.87 310.99	182.71
05 21 19 00-0005	TON	CS	Open Web Joist, Up To 30' Span, Steel, Horizontal Bridging <i>For Welded Cross Bridging, Add</i> <i>For Shop Prime Paint Other Than Manufacturer's Standard, Add</i>	2,963.56 243.62 258.18	182.71
05 21 19 00-0006	TON	SLH	Open Web Joist, Up To 200' Span, Steel, Bolted Cross Bridging <i>For Welded Cross Bridging, Add</i> <i>For Shop Prime Paint Other Than Manufacturer's Standard, Add</i>	3,683.46 224.87 352.07	182.71

05 30 Metal Decking ⁽⁰⁵⁾

Note: Includes all connecting bolts and welds.

05 31 Steel Decking ^(05 30)

See CSI section 03 30 00 00-0000 for concrete where required.

05 31 13 Steel Floor Decking ^(05 31)

Note: Floor or roof decking

05 31 13 00-0001 Open Ribbed Galvanized Steel Deck ^(05 31 13)

05 31 13 00-0002	SF	1"	Deep, 22 Gauge Open Ribbed Galvanized Steel Deck..... <i>For Painted, Deduct</i> <i>For Perforated Or Slotted, Add</i> <i>For Site Installed Insulation Between Ribs, Add</i> <i>For Up To 100, Add</i> <i>For >100 To 500, Add</i> <i>For >500 To 1,500, Add</i>	3.19 -0.13 0.13 0.85 0.90 0.51 0.16	0.51
05 31 13 00-0003	SF	1"	Deep, 20 Gauge Open Ribbed Galvanized Steel Deck..... <i>For Painted, Deduct</i> <i>For Perforated Or Slotted, Add</i> <i>For Site Installed Insulation Between Ribs, Add</i> <i>For Up To 100, Add</i> <i>For >100 To 500, Add</i> <i>For >500 To 1,500, Add</i>	3.63 -0.14 0.14 0.96 1.03 0.59 0.19	0.59
05 31 13 00-0004	SF	1"	Deep, 18 Gauge Open Ribbed Galvanized Steel Deck..... <i>For Painted, Deduct</i> <i>For Perforated Or Slotted, Add</i> <i>For Site Installed Insulation Between Ribs, Add</i> <i>For Up To 100, Add</i> <i>For >100 To 500, Add</i> <i>For >500 To 1,500, Add</i>	4.56 -0.18 0.18 1.21 1.28 0.73 0.23	0.72
05 31 13 00-0005	SF	1-1/2"	Deep, 22 Gauge Open Ribbed Galvanized Steel Deck..... <i>For Painted, Deduct</i> <i>For Perforated Or Slotted, Add</i> <i>For Site Installed Insulation Between Ribs, Add</i> <i>For Up To 100, Add</i> <i>For >100 To 500, Add</i> <i>For >500 To 1,500, Add</i>	3.49 -0.14 0.14 0.93 0.99 0.56 0.18	0.57
05 31 13 00-0006	SF	1-1/2"	Deep, 20 Gauge Open Ribbed Galvanized Steel Deck..... <i>For Painted, Deduct</i> <i>For Perforated Or Slotted, Add</i> <i>For Site Installed Insulation Between Ribs, Add</i> <i>For Up To 100, Add</i> <i>For >100 To 500, Add</i> <i>For >500 To 1,500, Add</i>	4.02 -0.16 0.16 1.07 1.14 0.65 0.21	0.66
05 31 13 00-0007	SF	1-1/2"	Deep, 18 Gauge Open Ribbed Galvanized Steel Deck..... <i>For Painted, Deduct</i> <i>For Perforated Or Slotted, Add</i> <i>For Site Installed Insulation Between Ribs, Add</i> <i>For Up To 100, Add</i> <i>For >100 To 500, Add</i> <i>For >500 To 1,500, Add</i>	5.05 -0.20 0.20 1.34 1.41 0.81 0.25	0.80
05 31 13 00-0008	SF	2"	Deep, 22 Gauge Open Ribbed Galvanized Steel Deck..... <i>For Painted, Deduct</i> <i>For Perforated Or Slotted, Add</i> <i>For Site Installed Insulation Between Ribs, Add</i> <i>For Up To 100, Add</i> <i>For >100 To 500, Add</i> <i>For >500 To 1,500, Add</i>	3.95 -0.16 0.16 1.04 1.07 0.62 0.19	0.61
05 31 13 00-0009	SF	2"	Deep, 20 Gauge Open Ribbed Galvanized Steel Deck..... <i>For Painted, Deduct</i> <i>For Perforated Or Slotted, Add</i> <i>For Site Installed Insulation Between Ribs, Add</i> <i>For Up To 100, Add</i> <i>For >100 To 500, Add</i> <i>For >500 To 1,500, Add</i>	4.59 -0.19 0.19 1.21 1.23 0.72 0.22	0.70

05	Metals
05 30	Metal Decking
05 31	Steel Decking



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 31 13 00-0010 SF 2" Deep, 18 Gauge Open Ribbed Galvanized Steel Deck	5.66	0.78
For Painted, Deduct	-0.23	
For Perforated Or Slotted, Add	0.23	
For Site Installed Insulation Between Ribs, Add	1.49	
For Up To 100, Add	1.45	
For >100 To 500, Add	0.86	
For >500 To 1,500, Add	0.25	
05 31 13 00-0011 SF 2" Deep, 16 Gauge Open Ribbed Galvanized Steel Deck	7.10	0.85
For Painted, Deduct	-0.30	
For Perforated Or Slotted, Add	0.30	
For Site Installed Insulation Between Ribs, Add	1.85	
For Up To 100, Add	1.66	
For >100 To 500, Add	1.03	
For >500 To 1,500, Add	0.27	
05 31 13 00-0012 SF 3" Deep, 22 Gauge Open Ribbed Galvanized Steel Deck	4.41	0.64
For Painted, Deduct	-0.18	
For Perforated Or Slotted, Add	0.18	
For Site Installed Insulation Between Ribs, Add	1.16	
For Up To 100, Add	1.15	
For >100 To 500, Add	0.68	
For >500 To 1,500, Add	0.20	
05 31 13 00-0013 SF 3" Deep, 20 Gauge Open Ribbed Galvanized Steel Deck	5.17	0.72
For Painted, Deduct	-0.21	
For Perforated Or Slotted, Add	0.21	
For Site Installed Insulation Between Ribs, Add	1.36	
For Up To 100, Add	1.34	
For >100 To 500, Add	0.79	
For >500 To 1,500, Add	0.23	
05 31 13 00-0014 SF 3" Deep, 18 Gauge Open Ribbed Galvanized Steel Deck	6.43	0.89
For Painted, Deduct	-0.27	
For Perforated Or Slotted, Add	0.27	
For Site Installed Insulation Between Ribs, Add	1.69	
For Up To 100, Add	1.65	
For >100 To 500, Add	0.98	
For >500 To 1,500, Add	0.28	
05 31 13 00-0015 SF 3" Deep, 16 Gauge Open Ribbed Galvanized Steel Deck	8.09	1.08
For Painted, Deduct	-0.34	
For Perforated Or Slotted, Add	0.34	
For Site Installed Insulation Between Ribs, Add	2.12	
For Up To 100, Add	2.02	
For >100 To 500, Add	1.21	
For >500 To 1,500, Add	0.34	
05 31 13 00-0016 SF 4-1/2" Deep, 18 Gauge Open Ribbed Galvanized Steel Deck	11.68	
For Painted, Deduct	-0.54	
For Perforated Or Slotted, Add	0.54	
For Site Installed Insulation Between Ribs, Add	2.99	
For Up To 100, Add	2.05	
For >100 To 500, Add	1.46	
For >500 To 1,500, Add	0.25	
05 31 13 00-0017 SF 4-1/2" Deep, 16 Gauge Open Ribbed Galvanized Steel Deck	14.73	0.89
For Painted, Deduct	-0.68	
For Perforated Or Slotted, Add	0.68	
For Site Installed Insulation Between Ribs, Add	3.77	
For Up To 100, Add	2.48	
For >100 To 500, Add	1.81	
For >500 To 1,500, Add	0.28	
05 31 13 00-0018 SF 6" Deep, 20 Gauge Open Ribbed Galvanized Steel Deck	13.68	0.89
For Painted, Deduct	-0.63	
For Perforated Or Slotted, Add	0.63	
For Site Installed Insulation Between Ribs, Add	3.50	
For Up To 100, Add	2.38	
For >100 To 500, Add	1.70	
For >500 To 1,500, Add	0.28	
05 31 13 00-0019 SF 6" Deep, 18 Gauge Open Ribbed Galvanized Steel Deck	14.34	1.08
For Painted, Deduct	-0.65	
For Perforated Or Slotted, Add	0.65	
For Site Installed Insulation Between Ribs, Add	3.69	
For Up To 100, Add	2.65	
For >100 To 500, Add	1.84	
For >500 To 1,500, Add	0.34	
05 31 13 00-0020 SF 6" Deep, 16 Gauge Open Ribbed Galvanized Steel Deck	17.91	1.31
For Painted, Deduct	-0.81	
For Perforated Or Slotted, Add	0.81	
For Site Installed Insulation Between Ribs, Add	4.60	
For Up To 100, Add	3.28	
For >100 To 500, Add	2.29	
For >500 To 1,500, Add	0.41	
05 31 13 00-0021 SF 7-1/2" Deep, 18 Gauge Open Ribbed Galvanized Steel Deck	15.85	1.19
For Painted, Deduct	-0.72	
For Perforated Or Slotted, Add	0.72	
For Site Installed Insulation Between Ribs, Add	4.07	
For Up To 100, Add	2.92	
For >100 To 500, Add	2.03	
For >500 To 1,500, Add	0.37	



Metals	05	05
Metal Decking	05 30	
Steel Decking	05 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 31 13 00-0022 SF 7-1/2" Deep, 16 Gauge Open Ribbed Galvanized Steel Deck.....	19.75	1.44
For Painted, Deduct	-0.90	
For Perforated Or Slotted, Add	0.90	
For Site Installed Insulation Between Ribs, Add	5.07	
For Up To 100, Add	3.60	
For >100 To 500, Add	2.52	
For >500 To 1,500, Add	0.45	
05 31 13 00-0023 Cellular Galvanized Steel Deck^(05 31 13)		
Note: Cellular decking is made of a top ribbed sheet and a flat bottom sheet welded together to create hollow longitudinal cells within the panels.		
05 31 13 00-0024 SF 1" Deep, 22/18 Gauge Cellular Galvanized Steel Deck.....	10.48	0.92
For Painted, Deduct	-0.47	
For Perforated Or Slotted, Add	0.47	
For Insulated Cells, Add	2.10	
For Site Installed Insulation Between Ribs, Add	2.70	
For Up To 100, Add	2.07	
For >100 To 500, Add	1.39	
For >500 To 1,500, Add	0.29	
05 31 13 00-0025 SF 1" Deep, 18/18 Gauge Cellular Galvanized Steel Deck.....	11.41	1.21
For Painted, Deduct	-0.49	
For Perforated Or Slotted, Add	0.49	
For Insulated Cells, Add	2.23	
For Site Installed Insulation Between Ribs, Add	2.96	
For Up To 100, Add	2.51	
For >100 To 500, Add	1.60	
For >500 To 1,500, Add	0.38	
05 31 13 00-0026 SF 1-1/2" Deep, 22/18 Gauge Cellular Galvanized Steel Deck.....	12.85	0.96
For Painted, Deduct	-0.58	
For Perforated Or Slotted, Add	0.58	
For Insulated Cells, Add	2.62	
For Site Installed Insulation Between Ribs, Add	3.30	
For Up To 100, Add	2.36	
For >100 To 500, Add	1.64	
For >500 To 1,500, Add	0.30	
05 31 13 00-0027 SF 1-1/2" Deep, 18/18 Gauge Cellular Galvanized Steel Deck.....	13.93	1.27
For Painted, Deduct	-0.62	
For Perforated Or Slotted, Add	0.62	
For Insulated Cells, Add	2.77	
For Site Installed Insulation Between Ribs, Add	3.60	
For Up To 100, Add	2.83	
For >100 To 500, Add	1.87	
For >500 To 1,500, Add	0.40	
05 31 13 00-0028 SF 3" Deep, 20/18 Gauge Cellular Galvanized Steel Deck.....	14.72	1.17
For Painted, Deduct	-0.66	
For Perforated Or Slotted, Add	0.66	
For Insulated Cells, Add	2.99	
For Site Installed Insulation Between Ribs, Add	3.79	
For Up To 100, Add	2.76	
For >100 To 500, Add	1.90	
For >500 To 1,500, Add	0.36	
05 31 13 00-0029 SF 3" Deep, 18/18 Gauge Cellular Galvanized Steel Deck.....	17.60	1.34
For Painted, Deduct	-0.80	
For Perforated Or Slotted, Add	0.80	
For Insulated Cells, Add	3.58	
For Site Installed Insulation Between Ribs, Add	4.52	
For Up To 100, Add	3.26	
For >100 To 500, Add	2.26	
For >500 To 1,500, Add	0.42	
05 31 13 00-0030 SF 3" Deep, 18/16 Gauge Cellular Galvanized Steel Deck.....	19.73	1.44
For Painted, Deduct	-0.90	
For Perforated Or Slotted, Add	0.90	
For Insulated Cells, Add	4.03	
For Site Installed Insulation Between Ribs, Add	5.07	
For Up To 100, Add	3.59	
For >100 To 500, Add	2.51	
For >500 To 1,500, Add	0.45	
05 31 13 00-0031 SF 3" Deep, 16/16 Gauge Cellular Galvanized Steel Deck.....	21.33	1.55
For Painted, Deduct	-0.97	
For Perforated Or Slotted, Add	0.97	
For Insulated Cells, Add	4.37	
For Site Installed Insulation Between Ribs, Add	5.48	
For Up To 100, Add	3.87	
For >100 To 500, Add	2.71	
For >500 To 1,500, Add	0.48	
05 31 13 00-0032 SF 4-1/2" Deep, 20/18 Gauge Cellular Galvanized Steel Deck.....	22.83	1.17
For Painted, Deduct	-1.07	
For Perforated Or Slotted, Add	1.07	
For Insulated Cells, Add	4.81	
For Site Installed Insulation Between Ribs, Add	5.82	
For Up To 100, Add	3.60	
For >100 To 500, Add	2.72	
For >500 To 1,500, Add	0.37	

05	05 Metals
	05 30 Metal Decking
	05 31 Steel Decking



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 31 13 00-0033 SF 4-1/2" Deep, 18/18 Gauge Cellular Galvanized Steel Deck.....	24.28	1.36
For Painted, Deduct	-1.13	
For Perforated Or Slotted, Add	1.13	
For Insulated Cells, Add	5.08	
For Site Installed Insulation Between Ribs, Add	6.20	
For Up To 100, Add	3.96	
For >100 To 500, Add	2.94	
For >500 To 1,500, Add	0.43	
05 31 13 00-0034 SF 4-1/2" Deep, 18/16 Gauge Cellular Galvanized Steel Deck.....	25.66	1.46
For Painted, Deduct	-1.19	
For Perforated Or Slotted, Add	1.19	
For Insulated Cells, Add	5.36	
For Site Installed Insulation Between Ribs, Add	6.55	
For Up To 100, Add	4.21	
For >100 To 500, Add	3.12	
For >500 To 1,500, Add	0.46	
05 31 13 00-0035 SF 4-1/2" Deep, 16/16 Gauge Cellular Galvanized Steel Deck.....	27.36	1.57
For Painted, Deduct	-1.27	
For Perforated Or Slotted, Add	1.27	
For Insulated Cells, Add	5.72	
For Site Installed Insulation Between Ribs, Add	6.99	
For Up To 100, Add	4.50	
For >100 To 500, Add	3.32	
For >500 To 1,500, Add	0.49	

05 31 23 Steel Roof Decking (05 31)

See CSI section 05 31 13 00-0000 for Steel floor or roof decking.

05 31 33 Steel Form Decking (05 31)

05 31 33 00-0001 Open Ribbed Galvanized Steel Form Deck (05 31 33)

05 31 33 00-0002 SF 9/16" Deep, 28 Gauge Open Ribbed Galvanized Steel Form Deck.....	2.89	
For Painted, Deduct	-0.10	
For Perforated Or Slotted, Add	0.10	
For Up To 100, Add	1.15	
For >100 To 500, Add	0.58	
For >500 To 1,500, Add	0.24	
05 31 33 00-0003 SF 9/16" Deep, 26 Gauge Open Ribbed Galvanized Steel Form Deck.....	3.07	
For Painted, Deduct	-0.10	
For Perforated Or Slotted, Add	0.10	
For Up To 100, Add	1.22	
For >100 To 500, Add	0.61	
For >500 To 1,500, Add	0.25	
05 31 33 00-0004 SF 9/16" Deep, 24 Gauge Open Ribbed Galvanized Steel Form Deck.....	3.40	
For Painted, Deduct	-0.11	
For Perforated Or Slotted, Add	0.11	
For Up To 100, Add	1.39	
For >100 To 500, Add	0.69	
For >500 To 1,500, Add	0.29	
05 31 33 00-0005 SF 9/16" Deep, 22 Gauge Open Ribbed Galvanized Steel Form Deck.....	3.67	
For Painted, Deduct	-0.12	
For Perforated Or Slotted, Add	0.12	
For Up To 100, Add	1.56	
For >100 To 500, Add	0.76	
For >500 To 1,500, Add	0.33	
05 31 33 00-0006 SF 15/16" Deep, 26 Gauge Open Ribbed Galvanized Steel Form Deck.....	3.47	
For Painted, Deduct	-0.12	
For Perforated Or Slotted, Add	0.12	
For Up To 100, Add	1.26	
For >100 To 500, Add	0.65	
For >500 To 1,500, Add	0.25	
05 31 33 00-0007 SF 15/16" Deep, 25 Gauge Open Ribbed Galvanized Steel Form Deck.....	3.64	
For Painted, Deduct	-0.13	
For Perforated Or Slotted, Add	0.13	
For Up To 100, Add	1.32	
For >100 To 500, Add	0.68	
For >500 To 1,500, Add	0.27	
05 31 33 00-0008 SF 15/16" Deep, 24 Gauge Open Ribbed Galvanized Steel Form Deck.....	3.84	
For Painted, Deduct	-0.13	
For Perforated Or Slotted, Add	0.13	
For Up To 100, Add	1.44	
For >100 To 500, Add	0.74	
For >500 To 1,500, Add	0.29	
05 31 33 00-0009 SF 15/16" Deep, 22 Gauge Open Ribbed Galvanized Steel Form Deck.....	4.09	
For Painted, Deduct	-0.14	
For Perforated Or Slotted, Add	0.14	
For Up To 100, Add	1.60	
For >100 To 500, Add	0.81	
For >500 To 1,500, Add	0.33	
05 31 33 00-0010 SF 1-15/16" Deep, 26 Gauge Open Ribbed Galvanized Steel Form Deck.....	4.32	
For Painted, Deduct	-0.15	
For Perforated Or Slotted, Add	0.15	
For Up To 100, Add	1.67	
For >100 To 500, Add	0.85	
For >500 To 1,500, Add	0.35	



	Metals	05
	Metal Decking	05 30
	Steel Decking	05 31

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 31 33 00-0011 SF 1-15/16" Deep, 24 Gauge Open Ribbed Galvanized Steel Form Deck.....	4.71	
For Painted, Deduct	-0.16	
For Perforated Or Slotted, Add	0.16	
For Up To 100, Add	1.76	
For >100 To 500, Add	0.90	
For >500 To 1,500, Add	0.36	
05 31 33 00-0012 SF 1-15/16" Deep, 22 Gauge Open Ribbed Galvanized Steel Form Deck.....	5.40	
For Painted, Deduct	-0.19	
For Perforated Or Slotted, Add	0.19	
For Up To 100, Add	1.93	
For >100 To 500, Add	1.00	
For >500 To 1,500, Add	0.39	
05 31 33 00-0013 SF 1-15/16" Deep, 20 Gauge Open Ribbed Galvanized Steel Form Deck.....	5.98	
For Painted, Deduct	-0.21	
For Perforated Or Slotted, Add	0.21	
For Up To 100, Add	2.17	
For >100 To 500, Add	1.12	
For >500 To 1,500, Add	0.44	

05 36 Composite Metal Decking (05 30)

See CSI section 03 30 00 00-0000 for concrete.

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

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

05 36 00 00-0002 SF 1-1/2" Deep, 22 Gauge Composite Open Ribbed Galvanized Steel Deck.....	4.36	
For Painted, Deduct	-0.15	
For Perforated Or Slotted, Add	0.15	
For Up To 100, Add	1.68	
For >100 To 500, Add	0.85	
For >500 To 1,500, Add	0.35	
05 36 00 00-0003 SF 1-1/2" Deep, 20 Gauge Composite Open Ribbed Galvanized Steel Deck.....	4.66	
For Painted, Deduct	-0.16	
For Perforated Or Slotted, Add	0.16	
For Up To 100, Add	1.85	
For >100 To 500, Add	0.93	
For >500 To 1,500, Add	0.39	
05 36 00 00-0004 SF 1-1/2" Deep, 18 Gauge Composite Open Ribbed Galvanized Steel Deck.....	5.21	
For Painted, Deduct	-0.17	
For Perforated Or Slotted, Add	0.17	
For Up To 100, Add	2.24	
For >100 To 500, Add	1.09	
For >500 To 1,500, Add	0.48	
05 36 00 00-0005 SF 1-1/2" Deep, 16 Gauge Composite Open Ribbed Galvanized Steel Deck.....	5.69	
For Painted, Deduct	-0.17	
For Perforated Or Slotted, Add	0.17	
For Up To 100, Add	2.62	
For >100 To 500, Add	1.25	
For >500 To 1,500, Add	0.57	
05 36 00 00-0006 SF 2" Deep, 22 Gauge Composite Open Ribbed Galvanized Steel Deck.....	4.66	
For Painted, Deduct	-0.16	
For Perforated Or Slotted, Add	0.16	
For Up To 100, Add	1.85	
For >100 To 500, Add	0.93	
For >500 To 1,500, Add	0.39	
05 36 00 00-0007 SF 2" Deep, 20 Gauge Composite Open Ribbed Galvanized Steel Deck.....	5.04	
For Painted, Deduct	-0.17	
For Perforated Or Slotted, Add	0.17	
For Up To 100, Add	2.03	
For >100 To 500, Add	1.01	
For >500 To 1,500, Add	0.43	
05 36 00 00-0008 SF 2" Deep, 18 Gauge Composite Open Ribbed Galvanized Steel Deck.....	5.59	
For Painted, Deduct	-0.18	
For Perforated Or Slotted, Add	0.18	
For Up To 100, Add	2.42	
For >100 To 500, Add	1.18	
For >500 To 1,500, Add	0.52	
05 36 00 00-0009 SF 2" Deep, 16 Gauge Composite Open Ribbed Galvanized Steel Deck.....	6.10	
For Painted, Deduct	-0.18	
For Perforated Or Slotted, Add	0.18	
For Up To 100, Add	2.81	
For >100 To 500, Add	1.34	
For >500 To 1,500, Add	0.61	
05 36 00 00-0010 SF 3" Deep, 22 Gauge Composite Open Ribbed Galvanized Steel Deck.....	4.90	
For Painted, Deduct	-0.17	
For Perforated Or Slotted, Add	0.17	
For Up To 100, Add	1.93	
For >100 To 500, Add	0.97	
For >500 To 1,500, Add	0.40	
05 36 00 00-0011 SF 3" Deep, 20 Gauge Composite Open Ribbed Galvanized Steel Deck.....	5.25	
For Painted, Deduct	-0.17	
For Perforated Or Slotted, Add	0.17	
For Up To 100, Add	2.15	
For >100 To 500, Add	1.07	
For >500 To 1,500, Add	0.45	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 36 00 00-0012	SF		3" Deep, 18 Gauge Composite Open Ribbed Galvanized Steel Deck.....	5.89	
			<i>For Painted, Deduct</i>	-0.18	
			<i>For Perforated Or Slotted, Add</i>	0.18	
			<i>For Up To 100, Add</i>	2.60	
			<i>For >100 To 500, Add</i>	1.26	
			<i>For >500 To 1,500, Add</i>	0.56	
05 36 00 00-0013	SF		3" Deep, 16 Gauge Composite Open Ribbed Galvanized Steel Deck.....	6.57	
			<i>For Painted, Deduct</i>	-0.20	
			<i>For Perforated Or Slotted, Add</i>	0.20	
			<i>For Up To 100, Add</i>	3.04	
			<i>For >100 To 500, Add</i>	1.45	
			<i>For >500 To 1,500, Add</i>	0.66	
05 36 00 00-0014			Composite Cellular Galvanized Steel Deck <small>(05 36)</small>		
			Note: Composite decking has rolled-in embossments or ridges designed to interlock with the concrete slab. Cellular decking is made of a top ribbed sheet and a bottom flat sheet welded together to create hollow longitudinal cells within the panels.		
05 36 00 00-0015	SF		1-1/2" Deep, 20/20 Gauge Composite Cellular Galvanized Steel Deck.....	7.99	
			<i>For Painted, Deduct</i>	-0.28	
			<i>For Perforated Or Slotted, Add</i>	0.28	
			<i>For Insulated Cells, Add</i>	1.24	
			<i>For Up To 100, Add</i>	3.04	
			<i>For >100 To 500, Add</i>	1.55	
			<i>For >500 To 1,500, Add</i>	0.62	
05 36 00 00-0016	SF		1-1/2" Deep, 20/18 Gauge Composite Cellular Galvanized Steel Deck.....	8.54	
			<i>For Painted, Deduct</i>	-0.29	
			<i>For Perforated Or Slotted, Add</i>	0.29	
			<i>For Insulated Cells, Add</i>	1.30	
			<i>For Up To 100, Add</i>	3.34	
			<i>For >100 To 500, Add</i>	1.68	
			<i>For >500 To 1,500, Add</i>	0.69	
05 36 00 00-0017	SF		1-1/2" Deep, 18/20 Gauge Composite Cellular Galvanized Steel Deck.....	8.65	
			<i>For Painted, Deduct</i>	-0.29	
			<i>For Perforated Or Slotted, Add</i>	0.29	
			<i>For Insulated Cells, Add</i>	1.30	
			<i>For Up To 100, Add</i>	3.45	
			<i>For >100 To 500, Add</i>	1.73	
			<i>For >500 To 1,500, Add</i>	0.72	
05 36 00 00-0018	SF		1-1/2" Deep, 18/18 Gauge Composite Cellular Galvanized Steel Deck.....	9.18	
			<i>For Painted, Deduct</i>	-0.30	
			<i>For Perforated Or Slotted, Add</i>	0.30	
			<i>For Insulated Cells, Add</i>	1.35	
			<i>For Up To 100, Add</i>	3.78	
			<i>For >100 To 500, Add</i>	1.87	
			<i>For >500 To 1,500, Add</i>	0.80	
05 36 00 00-0019	SF		1-1/2" Deep, 18/16 Gauge Composite Cellular Galvanized Steel Deck.....	9.84	
			<i>For Painted, Deduct</i>	-0.32	
			<i>For Perforated Or Slotted, Add</i>	0.32	
			<i>For Insulated Cells, Add</i>	1.44	
			<i>For Up To 100, Add</i>	4.09	
			<i>For >100 To 500, Add</i>	2.02	
			<i>For >500 To 1,500, Add</i>	0.86	
05 36 00 00-0020	SF		1-1/2" Deep, 16/18 Gauge Composite Cellular Galvanized Steel Deck.....	9.95	
			<i>For Painted, Deduct</i>	-0.32	
			<i>For Perforated Or Slotted, Add</i>	0.32	
			<i>For Insulated Cells, Add</i>	1.44	
			<i>For Up To 100, Add</i>	4.20	
			<i>For >100 To 500, Add</i>	2.06	
			<i>For >500 To 1,500, Add</i>	0.89	
05 36 00 00-0021	SF		1-1/2" Deep, 16/16 Gauge Composite Cellular Galvanized Steel Deck.....	10.48	
			<i>For Painted, Deduct</i>	-0.33	
			<i>For Perforated Or Slotted, Add</i>	0.33	
			<i>For Insulated Cells, Add</i>	1.49	
			<i>For Up To 100, Add</i>	4.53	
			<i>For >100 To 500, Add</i>	2.21	
			<i>For >500 To 1,500, Add</i>	0.97	
05 36 00 00-0022	SF		2" Deep, 20/20 Gauge Composite Cellular Galvanized Steel Deck.....	8.25	
			<i>For Painted, Deduct</i>	-0.28	
			<i>For Perforated Or Slotted, Add</i>	0.28	
			<i>For Insulated Cells, Add</i>	1.26	
			<i>For Up To 100, Add</i>	3.21	
			<i>For >100 To 500, Add</i>	1.62	
			<i>For >500 To 1,500, Add</i>	0.66	
05 36 00 00-0023	SF		2" Deep, 20/18 Gauge Composite Cellular Galvanized Steel Deck.....	8.72	
			<i>For Painted, Deduct</i>	-0.29	
			<i>For Perforated Or Slotted, Add</i>	0.29	
			<i>For Insulated Cells, Add</i>	1.32	
			<i>For Up To 100, Add</i>	3.46	
			<i>For >100 To 500, Add</i>	1.73	
			<i>For >500 To 1,500, Add</i>	0.72	



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 36 00 00-0024 SF 2" Deep, 18/20 Gauge Composite Cellular Galvanized Steel Deck.....	8.82	
For Painted, Deduct	-0.29	
For Perforated Or Slotted, Add	0.29	
For Insulated Cells, Add	1.32	
For Up To 100, Add	3.56	
For >100 To 500, Add	1.77	
For >500 To 1,500, Add	0.74	
05 36 00 00-0025 SF 2" Deep, 18/18 Gauge Composite Cellular Galvanized Steel Deck.....	9.48	
For Painted, Deduct	-0.31	
For Perforated Or Slotted, Add	0.31	
For Insulated Cells, Add	1.39	
For Up To 100, Add	3.92	
For >100 To 500, Add	1.94	
For >500 To 1,500, Add	0.83	
05 36 00 00-0026 SF 2" Deep, 18/16 Gauge Composite Cellular Galvanized Steel Deck.....	10.02	
For Painted, Deduct	-0.32	
For Perforated Or Slotted, Add	0.32	
For Insulated Cells, Add	1.45	
For Up To 100, Add	4.21	
For >100 To 500, Add	2.07	
For >500 To 1,500, Add	0.89	
05 36 00 00-0027 SF 2" Deep, 16/18 Gauge Composite Cellular Galvanized Steel Deck.....	10.17	
For Painted, Deduct	-0.32	
For Perforated Or Slotted, Add	0.32	
For Insulated Cells, Add	1.45	
For Up To 100, Add	4.36	
For >100 To 500, Add	2.13	
For >500 To 1,500, Add	0.93	
05 36 00 00-0028 SF 2" Deep, 16/16 Gauge Composite Cellular Galvanized Steel Deck.....	10.73	
For Painted, Deduct	-0.34	
For Perforated Or Slotted, Add	0.34	
For Insulated Cells, Add	1.52	
For Up To 100, Add	4.66	
For >100 To 500, Add	2.27	
For >500 To 1,500, Add	1.00	
05 36 00 00-0029 SF 3" Deep, 20/20 Gauge Composite Cellular Galvanized Steel Deck.....	8.29	
For Painted, Deduct	-0.28	
For Perforated Or Slotted, Add	0.28	
For Insulated Cells, Add	1.27	
For Up To 100, Add	3.21	
For >100 To 500, Add	1.62	
For >500 To 1,500, Add	0.66	
05 36 00 00-0030 SF 3" Deep, 20/18 Gauge Composite Cellular Galvanized Steel Deck.....	8.77	
For Painted, Deduct	-0.29	
For Perforated Or Slotted, Add	0.29	
For Insulated Cells, Add	1.32	
For Up To 100, Add	3.51	
For >100 To 500, Add	1.75	
For >500 To 1,500, Add	0.73	
05 36 00 00-0031 SF 3" Deep, 18/20 Gauge Composite Cellular Galvanized Steel Deck.....	8.93	
For Painted, Deduct	-0.29	
For Perforated Or Slotted, Add	0.29	
For Insulated Cells, Add	1.32	
For Up To 100, Add	3.67	
For >100 To 500, Add	1.82	
For >500 To 1,500, Add	0.77	
05 36 00 00-0032 SF 3" Deep, 18/18 Gauge Composite Cellular Galvanized Steel Deck.....	9.56	
For Painted, Deduct	-0.31	
For Perforated Or Slotted, Add	0.31	
For Insulated Cells, Add	1.40	
For Up To 100, Add	3.97	
For >100 To 500, Add	1.96	
For >500 To 1,500, Add	0.84	
05 36 00 00-0033 SF 3" Deep, 18/16 Gauge Composite Cellular Galvanized Steel Deck.....	10.18	
For Painted, Deduct	-0.33	
For Perforated Or Slotted, Add	0.33	
For Insulated Cells, Add	1.48	
For Up To 100, Add	4.27	
For >100 To 500, Add	2.10	
For >500 To 1,500, Add	0.90	
05 36 00 00-0034 SF 3" Deep, 16/18 Gauge Composite Cellular Galvanized Steel Deck.....	10.39	
For Painted, Deduct	-0.33	
For Perforated Or Slotted, Add	0.33	
For Insulated Cells, Add	1.48	
For Up To 100, Add	4.48	
For >100 To 500, Add	2.19	
For >500 To 1,500, Add	0.96	
05 36 00 00-0035 SF 3" Deep, 16/16 Gauge Composite Cellular Galvanized Steel Deck.....	10.84	
For Painted, Deduct	-0.34	
For Perforated Or Slotted, Add	0.34	
For Insulated Cells, Add	1.52	
For Up To 100, Add	4.77	
For >100 To 500, Add	2.31	
For >500 To 1,500, Add	1.02	

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

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 36 00 00-0037	SF		1" Deep x 16 Gauge Composite Metal Deck Galvanized, Non-Cellular.....	6.13	
05 36 00 00-0038	SF		1" Deep x 18 Gauge Composite Metal Deck Galvanized, Non-Cellular.....	5.04	
05 36 00 00-0039	SF		1" Deep x 20 Gauge Composite Metal Deck Galvanized, Non-Cellular.....	4.19	
05 36 00 00-0040	SF		1" Deep x 22 Gauge Composite Metal Deck Galvanized, Non-Cellular.....	3.61	
05 36 00 00-0041	SF		1-1/2" Deep x 16 Gauge Composite Metal Deck Galvanized, Non-Cellular.....	6.75	
05 36 00 00-0042	SF		1-1/2" Deep x 18 Gauge Composite Metal Deck Galvanized, Non-Cellular.....	5.49	
05 36 00 00-0043	SF		1-1/2" Deep x 20 Gauge Composite Metal Deck Galvanized, Non-Cellular.....	4.56	
05 36 00 00-0044	SF		1-1/2" Deep x 22 Gauge Composite Metal Deck Galvanized, Non-Cellular.....	3.93	
05 36 00 00-0045	SF		3" Deep x 16 Gauge Composite Metal Deck Galvanized, Non-Cellular.....	7.78	
05 36 00 00-0046	SF		3" Deep x 18 Gauge Composite Metal Deck Galvanized, Non-Cellular.....	6.23	
05 36 00 00-0047	SF		3" Deep x 20 Gauge Composite Metal Deck Galvanized, Non-Cellular.....	5.23	
05 36 00 00-0048	SF		3" Deep x 22 Gauge Composite Metal Deck Galvanized, Non-Cellular.....	4.73	

05 40 Cold-Formed Metal Framing ⁽⁰⁵⁾

Note: Includes all connecting bolts and welds.

05 41 Structural Metal Stud Framing ^(05 40)

Note: Includes studs, bridging, fasteners, and metal stiffener at half height. Do not deduct for openings of less than 25 SF.

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

05 41 00 00-0002	SF	2-1/2" Width, 16" On Center, 18 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners	4.80	1.08
		<i>For Walls >10' High, Add</i>	0.96	
		<i>For Curved Wall, Add</i>	0.75	
		<i>For Up To 200, Add</i>	1.46	
		<i>For >200 To 500, Add</i>	0.73	
		<i>For 12" On Center, Add</i>	0.84	
		<i>For 24" On Center, Deduct</i>	-0.84	
05 41 00 00-0003	SF	3-5/8" Width, 16" On Center, 18 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners	5.32	1.08
		<i>For Walls >10' High, Add</i>	1.06	
		<i>For Curved Wall, Add</i>	0.79	
		<i>For Up To 200, Add</i>	1.59	
		<i>For >200 To 500, Add</i>	0.80	
		<i>For 12" On Center, Add</i>	0.93	
		<i>For 24" On Center, Deduct</i>	-0.93	
05 41 00 00-0004	SF	4" Width, 16" On Center, 18 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners.....	5.55	1.08
		<i>For Walls >10' High, Add</i>	1.11	
		<i>For Curved Wall, Add</i>	0.82	
		<i>For Up To 200, Add</i>	1.66	
		<i>For >200 To 500, Add</i>	0.83	
		<i>For 12" On Center, Add</i>	0.97	
		<i>For 24" On Center, Deduct</i>	-0.97	
05 41 00 00-0005	SF	6" Width, 16" On Center, 18 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners.....	6.90	1.20
		<i>For Walls >10' High, Add</i>	1.38	
		<i>For Curved Wall, Add</i>	0.86	
		<i>For Up To 200, Add</i>	1.95	
		<i>For >200 To 500, Add</i>	0.98	
		<i>For 12" On Center, Add</i>	1.24	
		<i>For 24" On Center, Deduct</i>	-1.24	
05 41 00 00-0006	SF	8" Width, 16" On Center, 18 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners.....	7.64	1.31
		<i>For Walls >10' High, Add</i>	1.53	
		<i>For Curved Wall, Add</i>	0.89	
		<i>For Up To 200, Add</i>	2.12	
		<i>For >200 To 500, Add</i>	1.06	
		<i>For 12" On Center, Add</i>	1.38	
		<i>For 24" On Center, Deduct</i>	-1.38	

05 41 00 00-0007 16 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners ^(05 41)

05 41 00 00-0008	SF	2-1/2" Width, 16" On Center, 16 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners	5.14	1.08
		<i>For Walls >10' High, Add</i>	1.03	
		<i>For Curved Wall, Add</i>	0.79	
		<i>For Up To 200, Add</i>	1.55	
		<i>For >200 To 500, Add</i>	0.78	
		<i>For 12" On Center, Add</i>	0.90	
		<i>For 24" On Center, Deduct</i>	-0.90	
05 41 00 00-0009	SF	3-5/8" Width, 16" On Center, 16 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners	5.87	1.09
		<i>For Walls >10' High, Add</i>	1.17	
		<i>For Curved Wall, Add</i>	0.83	
		<i>For Up To 200, Add</i>	1.73	
		<i>For >200 To 500, Add</i>	0.86	
		<i>For 12" On Center, Add</i>	1.04	
		<i>For 24" On Center, Deduct</i>	-1.04	
05 41 00 00-0010	SF	4" Width, 16" On Center, 16 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners.....	6.19	1.09
		<i>For Walls >10' High, Add</i>	1.24	
		<i>For Curved Wall, Add</i>	0.86	
		<i>For Up To 200, Add</i>	1.81	
		<i>For >200 To 500, Add</i>	0.91	
		<i>For 12" On Center, Add</i>	1.09	
		<i>For 24" On Center, Deduct</i>	-1.09	



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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 41 00 00-0011	SF		6" Width, 16" On Center, 16 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners 7.67		1.31
			<i>For Walls >10' High, Add</i>	1.53	
			<i>For Curved Wall, Add</i>	0.90	
			<i>For Up To 200, Add</i>	2.14	
			<i>For >200 To 500, Add</i>	1.07	
			<i>For 12" On Center, Add</i>	1.38	
			<i>For 24" On Center, Deduct</i>	-1.38	
05 41 00 00-0012	SF		8" Width, 16" On Center, 16 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners 8.41		1.43
			<i>For Walls >10' High, Add</i>	1.68	
			<i>For Curved Wall, Add</i>	0.95	
			<i>For Up To 200, Add</i>	2.31	
			<i>For >200 To 500, Add</i>	1.16	
			<i>For 12" On Center, Add</i>	1.52	
			<i>For 24" On Center, Deduct</i>	-1.52	
05 41 00 00-0013			14 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners (05 41)		
05 41 00 00-0014	SF		3-5/8" Width, 16" On Center, 14 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners 6.99		1.49
			<i>For Walls >10' High, Add</i>	1.40	
			<i>For Curved Wall, Add</i>	1.00	
			<i>For Up To 200, Add</i>	2.06	
			<i>For >200 To 500, Add</i>	1.03	
			<i>For 12" On Center, Add</i>	1.23	
			<i>For 24" On Center, Deduct</i>	-1.23	
05 41 00 00-0015	SF		4" Width, 16" On Center, 14 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners 7.18		1.52
			<i>For Walls >10' High, Add</i>	1.44	
			<i>For Curved Wall, Add</i>	1.01	
			<i>For Up To 200, Add</i>	2.11	
			<i>For >200 To 500, Add</i>	1.06	
			<i>For 12" On Center, Add</i>	1.27	
			<i>For 24" On Center, Deduct</i>	-1.27	
05 41 00 00-0016	SF		6" Width, 16" On Center, 14 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners 8.82		1.60
			<i>For Walls >10' High, Add</i>	1.76	
			<i>For Curved Wall, Add</i>	1.06	
			<i>For Up To 200, Add</i>	2.47	
			<i>For >200 To 500, Add</i>	1.24	
			<i>For 12" On Center, Add</i>	1.59	
			<i>For 24" On Center, Deduct</i>	-1.59	
05 41 00 00-0017	SF		8" Width, 16" On Center, 14 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners 9.65		1.67
			<i>For Walls >10' High, Add</i>	1.93	
			<i>For Curved Wall, Add</i>	1.11	
			<i>For Up To 200, Add</i>	2.67	
			<i>For >200 To 500, Add</i>	1.34	
			<i>For 12" On Center, Add</i>	1.74	
			<i>For 24" On Center, Deduct</i>	-1.74	

05 42 Cold-Formed Metal Joist Framing (05 40)

05 42 13 Cold-Formed Metal Floor Joist Framing (05 42)
 Note: Floor or roof joist framing

05 42 13 00-0001			Steel Joists, 20 Gauge (05 42 13)		
05 42 13 00-0002	LF		5-1/2" - 20 Gauge Steel Joists 9.80		2.56
05 42 13 00-0003	LF		6" - 20 Gauge Steel Joists 10.81		3.22
05 42 13 00-0004	LF		7-1/4" - 20 Gauge Steel Joists 11.67		3.53
05 42 13 00-0005	LF		8" - 20 Gauge Steel Joists 13.02		3.76
05 42 13 00-0006			Steel Joists, 18 Gauge (05 42 13)		
05 42 13 00-0007	LF		5-1/2" - 18 Gauge Steel Joists 10.90		2.84
05 42 13 00-0008	LF		6" - 18 Gauge Steel Joists 12.04		3.58
05 42 13 00-0009	LF		7-1/4" - 18 Gauge Steel Joists 13.04		3.92
05 42 13 00-0010	LF		8" - 18 Gauge Steel Joists 13.47		4.17
05 42 13 00-0011			Steel Joists, 16 Gauge (05 42 13)		
05 42 13 00-0012	LF		7-1/4" - 16 Gauge Steel Joists 14.00		3.96
05 42 13 00-0013	LF		8" - 16 Gauge Steel Joists 14.79		4.17
05 42 13 00-0014			Steel Joists, 14 Gauge (05 42 13)		
05 42 13 00-0015	LF		9-1/4" - 14 Gauge Steel Joists 16.52		4.17
05 42 13 00-0016	LF		11-1/2" - 14 Gauge Steel Joists 17.89		4.40
05 42 13 00-0017			Steel Joists, 12 Gauge (05 42 13)		
05 42 13 00-0018	LF		9-1/4" - 12 Gauge Steel Joists 19.52		4.58
05 42 13 00-0019	LF		11-1/2" - 12 Gauge Steel Joists 21.29		4.83
05 42 13 00-0020			Steel Joists, 10 Gauge (05 42 13)		

05 Metals**05 40 Cold-Formed Metal Framing****05 42 Cold-Formed Metal Joist Framing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 42 13 00-0021 LF 9-1/4" - 10 Gauge Steel Joists	22.59	5.05
05 42 13 00-0022 LF 11-1/2" - 10 Gauge Steel Joists	24.74	5.32
05 42 13 00-0023 Steel Joists, 8 Gauge (05 42 13)		
05 42 13 00-0024 LF 9-1/4" - 8 Gauge Steel Joists	25.73	5.56
05 42 13 00-0025 LF 11-1/2" - 8 Gauge Steel Joists	28.25	5.85
05 42 23 Cold-Formed Metal Roof Joist Framing (05 42)		
See CSI section 05 42 13 00-0000 for metal joist framing.		
05 43 Slotted Channel Framing (05 40)		
05 43 00 00-0001 Unistrut Channel (05 43)		
Note: Excludes fasteners and accessories.		
05 43 00 00-0002 Steel Unistrut Channel (05 43 00 00-0001)		
05 43 00 00-0003 LF 1-5/8" Wide x 1-5/8" High, 12 Gauge, Steel Unistrut Channel	13.52	2.55
For Galvanizing, Add	1.43	
For Powder Coating, Add	1.26	
05 43 00 00-0004 LF 1-5/8" Wide x 1-3/8" High, 12 Gauge, Steel Unistrut Channel	13.93	2.55
For Galvanizing, Add	1.50	
For Powder Coating, Add	1.33	
05 43 00 00-0005 LF 1-5/8" Wide x 13/16" High, 12 Gauge, Steel Unistrut Channel	14.56	2.55
For Galvanizing, Add	1.61	
For Powder Coating, Add	1.42	
05 43 00 00-0006 LF 1-5/8" Wide x 1-5/8" High, 14 Gauge, Steel Unistrut Channel	12.70	2.55
For Galvanizing, Add	1.29	
For Powder Coating, Add	1.14	
05 43 00 00-0007 LF 1-5/8" Wide x 13/16" High, 14 Gauge, Steel Unistrut Channel	10.91	2.55
For Galvanizing, Add	0.99	
For Powder Coating, Add	0.87	
05 43 00 00-0008 Stainless Steel Unistrut Channel (05 43 00 00-0001)		
05 43 00 00-0009 304 Stainless Steel Unistrut Channel (05 43 00 00-0008)		
05 43 00 00-0010 LF 1-5/8" Wide x 13/16" High, 14 Gauge, 304 Stainless Steel Unistrut Channel	35.43	2.55
05 43 00 00-0011 LF 1-5/8" Wide x 13/16" High, 12 Gauge, 304 Stainless Steel Unistrut Channel	42.84	2.55
05 43 00 00-0012 LF 1-5/8" Wide x 1-5/8" High, 14 Gauge, 304 Stainless Steel Unistrut Channel	41.00	2.55
05 43 00 00-0013 LF 1-5/8" Wide x 1-5/8" High, 12 Gauge, 304 Stainless Steel Unistrut Channel	52.45	2.55
05 43 00 00-0014 316 Stainless Steel Unistrut Channel (05 43 00 00-0008)		
05 43 00 00-0015 LF 1-5/8" Wide x 13/16" High, 14 Gauge, 316 Stainless Steel Unistrut Channel	59.47	2.55
05 43 00 00-0016 Unistrut Closure Strips (05 43)		
05 43 00 00-0017 LF Steel Raceway Closure Strip For Unistrut Channel	7.47	0.56
05 43 00 00-0018 Lock Nuts With Spring For Unistrut Channel (05 43)		
Note: Includes hex bolt.		
05 43 00 00-0019 Steel Lock Nuts With Spring For Unistrut Channel (05 43 00 00-0018)		
Note: Includes hex bolt.		
05 43 00 00-0020 EA 1/4-20, Steel Lock Nut With Spring For Unistrut Channel	8.09	
05 43 00 00-0021 EA 3/8-16, Steel Lock Nut With Spring For Unistrut Channel	8.96	
05 43 00 00-0022 EA 1/2-13, Steel Lock Nut With Spring For Unistrut Channel	9.62	
05 43 00 00-0023 EA 5/8-11, Steel Lock Nut With Spring For Unistrut Channel	13.14	
05 43 00 00-0024 Stainless Steel Lock Nuts With Spring For Unistrut Channel (05 43 00 00-0018)		
Note: Includes hex bolt.		
05 43 00 00-0025 EA 1/4-20, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel	19.57	
05 43 00 00-0026 EA 3/8-16, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel	20.92	
05 43 00 00-0027 EA 1/2-13, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel	30.25	
05 43 00 00-0028 EA 5/8-11, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel	52.83	
05 43 00 00-0029 Lock Nuts Without Spring For Unistrut Channel (05 43)		
Note: Includes hex bolt.		
05 43 00 00-0030 Steel Lock Nuts Without Spring For Unistrut Channel (05 43 00 00-0029)		
Note: Includes hex bolt.		
05 43 00 00-0031 EA 1/4-20, Steel Lock Nut Without Spring For Unistrut Channel	8.12	
05 43 00 00-0032 EA 3/8-16, Steel Lock Nut Without Spring For Unistrut Channel	9.08	
05 43 00 00-0033 EA 1/2-13, Steel Lock Nut Without Spring For Unistrut Channel	9.67	
05 43 00 00-0034 EA 5/8-11, Steel Lock Nut Without Spring For Unistrut Channel	14.15	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
-------	-----	-----	-------------	------------------------	----------------------

05 43 00 00-0035			Stainless Steel Lock Nuts Without Spring For Unistrut Channel <small>(05 43 00 00-0029)</small>		
<small>Note: Includes hex bolt.</small>					
05 43 00 00-0036	EA		1/4-20, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel	13.59	
05 43 00 00-0037	EA		3/8-16, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel	16.70	
05 43 00 00-0038	EA		1/2-13, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel	18.34	
05 43 00 00-0039	EA		5/8-11, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel	51.42	

05 43 00 00-0040			Beam Clamp For Unistrut Channel <small>(05 43)</small>		
05 43 00 00-0041	EA		1-5/8" Channel, P2675 Unistrut Beam Clamp.....	24.24	8.46
05 43 00 00-0042	EA		1-5/8" Channel, P2676 Unistrut Beam Clamp.....	31.06	8.46
05 43 00 00-0043	EA		Add For Unistrut Swivel Nut, P2676	3.71	

05 43 00 00-0044			Beam Clamp Clevis Hangers For Unistrut Channel <small>(05 43)</small>		
05 43 00 00-0045	EA		Up To 3/8" Rod, Beam Clamp Clevis Hanger (Unistrut P2674)	26.61	8.46
05 43 00 00-0046	EA		Up To 1/2" Rod, Beam Clamp Clevis Hanger (Unistrut P2677)	32.03	8.46
05 43 00 00-0047	EA		Add For Unistrut Swivel Nut.....	3.71	
05 43 00 00-0048	EA		6-Hole ElectroGalvanized Steel Shelf Bracket For Unistrut.....	179.34	11.28

05 43 00 00-0049			Pipe And Rigid Conduit Clamps <small>(05 43)</small>		
-------------------------	--	--	---	--	--

05 43 00 00-0050			Pipe And Rigid Conduit Clamps <small>(05 43 00 00-0049)</small>		
<small>Note: Includes stainless steel (316) hardware.</small>					
05 43 00 00-0051	PR		1/2" Pipe And Rigid Steel Conduit Clamps With Stainless Steel (316) Hardware.....	8.19	2.93
05 43 00 00-0052	PR		3/4" Pipe And Rigid Steel Conduit Clamps With Stainless Steel (316) Hardware.....	8.33	2.93
05 43 00 00-0053	PR		1" Pipe And Rigid Steel Conduit Clamps With Stainless Steel (316) Hardware.....	9.77	3.54
05 43 00 00-0054	PR		1-1/4" Pipe And Rigid Steel Conduit Clamps With Stainless Steel (316) Hardware	10.37	3.85
05 43 00 00-0055	PR		1-1/2" Pipe And Rigid Steel Conduit Clamps With Stainless Steel (316) Hardware	12.82	4.31
05 43 00 00-0056	PR		2" Pipe And Rigid Steel Conduit Clamps With Stainless Steel (316) Hardware.....	12.82	4.31
05 43 00 00-0057	PR		2-1/2" Pipe And Rigid Steel Conduit Clamps With Stainless Steel (316) Hardware	20.04	7.23
05 43 00 00-0058	PR		3" Pipe And Rigid Steel Conduit Clamps With Stainless Steel (316) Hardware.....	20.33	7.23
05 43 00 00-0059	PR		3-1/2" Pipe And Rigid Steel Conduit Clamps With Stainless Steel (316) Hardware	21.87	7.99
05 43 00 00-0060	PR		4" Pipe And Rigid Steel Conduit Clamps With Stainless Steel (316) Hardware.....	24.12	8.62

05 43 00 00-0061			Pipe And Rigid Conduit Clamps <small>(05 43 00 00-0049)</small>		
-------------------------	--	--	--	--	--

<small>Note: Includes nylon hardware.</small>					
05 43 00 00-0062	PR		1/2" Pipe And Rigid Steel Conduit Clamps With Nylon Hardware	12.14	2.93
05 43 00 00-0063	PR		3/4" Pipe And Rigid Steel Conduit Clamps With Nylon Hardware	12.52	2.93
05 43 00 00-0064	PR		1" Pipe And Rigid Steel Conduit Clamps With Nylon Hardware	13.96	3.54
05 43 00 00-0065	PR		1-1/4" Pipe And Rigid Steel Conduit Clamps With Nylon Hardware	14.71	3.85
05 43 00 00-0066	PR		1-1/2" Pipe And Rigid Steel Conduit Clamps With Nylon Hardware	19.61	4.31
05 43 00 00-0067	PR		2" Pipe And Rigid Steel Conduit Clamps With Nylon Hardware	19.61	4.31
05 43 00 00-0068	PR		2-1/2" Pipe And Rigid Steel Conduit Clamps With Nylon Hardware	29.20	7.23
05 43 00 00-0069	PR		3" Pipe And Rigid Steel Conduit Clamps With Nylon Hardware	29.96	7.23
05 43 00 00-0070	PR		3-1/2" Pipe And Rigid Steel Conduit Clamps With Nylon Hardware	31.66	7.99
05 43 00 00-0071	PR		4" Pipe And Rigid Steel Conduit Clamps With Nylon Hardware	35.25	8.62

05 43 00 00-0072			Accessories For Unistrut Channel <small>(05 43)</small>		
-------------------------	--	--	--	--	--

05 43 00 00-0073	EA		Trolley Truck Hanger, 1-5/8" Channel P1834	59.12	8.46
05 43 00 00-0074	EA		Flat Plate Fitting, One Hole, 1-5/8" Channel P1064.....	14.80	5.64
05 43 00 00-0075	EA		60 Degree Angle, 1-5/8" Channel P2097.....	15.50	5.64

05 43 00 00-0076			Bases For Unistrut Channel <small>(05 43)</small>		
-------------------------	--	--	--	--	--

05 43 00 00-0077			Steel Bases For Unistrut Channel <small>(05 43 00 00-0076)</small>		
-------------------------	--	--	---	--	--

<small>Note: Includes straight or angled post mounting and fasteners.</small>					
05 43 00 00-0078	EA		6" x 6", 1-5/8" Height, Single Post, Steel Base For Unistrut Channel	116.10	28.20
05 43 00 00-0079	EA		6" x 6", 3-1/2" Height, Single Post, Steel Base For Unistrut Channel.....	117.66	28.20
05 43 00 00-0080	EA		6" x 6", 1-5/8" Height, Double Post, Steel Base For Unistrut Channel.....	167.64	28.20
05 43 00 00-0081	EA		6" x 6", 3-1/2" Height, Double Post, Steel Base For Unistrut Channel.....	138.58	28.20

05 43 00 00-0082			Stainless Steel Bases For Unistrut Channel <small>(05 43 00 00-0076)</small>		
-------------------------	--	--	---	--	--

<small>Note: Includes straight or angled post mounting and fasteners.</small>					
05 43 00 00-0083	EA		6" x 6", 1-5/8" Height, Single Post, 304 Stainless Steel Base For Unistrut Channel.....	232.04	28.20
05 43 00 00-0084	EA		6" x 6", 3-1/2" Height, Single Post, 304 Stainless Steel Base For Unistrut Channel.....	419.32	28.20
05 43 00 00-0085	EA		6" x 6", 3-1/2" Height, Double Post, 304 Stainless Steel Base For Unistrut Channel.....	321.11	28.20
05 43 00 00-0086	EA		6" x 6", 1-5/8" Height, Single Post, 316 Stainless Steel Base For Unistrut Channel.....	472.43	28.20
05 43 00 00-0087	EA		6" x 6", 3-1/2" Height, Double Post, 316 Stainless Steel Base For Unistrut Channel	417.97	28.20

05 45 Metal Support Assemblies (05 40)

05 45 13 Mechanical Metal Supports (05 45)

See CSI section 23 05 29 00-0000 for metal supports.

05	05	Metals
	05 50	Metal Fabrications
	05 45	Metal Support Assemblies



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

05 50 Metal Fabrications ⁽⁰⁵⁾

05 51 Metal Stairs ^(05 50)

05 51 13 Metal Pan Stairs ^(05 51)

Note: Open concrete filled metal pan stair and landing including steel stringer, safety nosing and concrete. Excludes handrail.
See CSI section 05 52 13 00-0000 for handrails.

05 51 13 00-0001 Open Concrete Filled Metal Pan Stair And Landing ^(05 51 13)

Note: Includes steel stringer, safety nosing and concrete. Excludes handrail.

05 51 13 00-0002	RSR 3'-6" Wide Open Concrete Filled Metal Pan Tread Stair	1,067.76	32.97
	<i>For Closed Riser, Add</i>	123.61	
05 51 13 00-0003	RSR 4'-0" Wide Open Concrete Filled Metal Pan Tread Stair	1,213.11	38.46
	<i>For Closed Riser, Add</i>	140.30	
05 51 13 00-0004	RSR 5'-0" Wide Open Concrete Filled Metal Pan Tread Stair	1,350.79	45.05
	<i>For Closed Riser, Add</i>	155.91	
05 51 13 00-0005	SF Concrete Filled Steel Pan Landing	85.74	5.50
	Note: Conventional shape.		

05 51 19 Metal Grating Stairs ^(05 51)

Note: Open steel grating tread metal stair and landing including steel stringers, safety nosing and 2 pipe handrail.

05 51 19 00-0001 Open Steel Grating Tread Metal Stair And Landing ^(05 51 19)

Note: Includes steel stringers, safety nosing and 2 pipe handrail.

05 51 19 00-0002	RSR 3'-6" Wide Open Steel Grating Tread Metal Stair	515.78	43.95
	<i>For Closed Riser, Add</i>	62.22	
	<i>For Galvanized Steel, Add</i>	106.97	
05 51 19 00-0003	RSR 4'-0" Wide Open Steel Grating Tread Metal Stair	549.33	50.55
	<i>For Closed Riser, Add</i>	65.85	
	<i>For Galvanized Steel, Add</i>	112.06	
05 51 19 00-0004	RSR 5'-0" Wide Open Steel Grating Tread Metal Stair	607.66	59.33
	<i>For Closed Riser, Add</i>	72.47	
	<i>For Galvanized Steel, Add</i>	122.25	
05 51 19 00-0005	SF Steel Grating Landing With Framing And 2 Pipe Handrail	95.32	5.50
	Note: Conventional shape.		
	<i>For Galvanized Steel, Add</i>	18.34	

05 51 33 Metal Ladders ^(05 51)

Note: Includes factory prime.

05 51 33 13 Vertical Metal Ladders ^(05 51 33)

05 51 33 13-0001 Vertical Ladders ^(05 51 33 13)

Note: Climbing rungs are 3/4" corrugated steel round rungs on 12" centers. Stand-off brackets are 7"

05 51 33 13-0002	VLF 20" Wide Vertical Steel Ladder Primed	92.58	13.18
	<i>For Galvanized Steel, Add</i>	12.81	
	<i>For Aluminum, Add</i>	25.61	
05 51 33 13-0003	VLF 24" Wide Vertical Steel Ladder Primed	105.56	13.18
	<i>For Galvanized Steel, Add</i>	16.05	
	<i>For Aluminum, Add</i>	32.10	
05 51 33 13-0004	VLF 20" Wide Vertical Steel Caged Ladder Primed	218.84	21.97
	<i>For Galvanized Steel, Add</i>	37.20	
	<i>For Aluminum, Add</i>	74.40	
05 51 33 13-0005	VLF 24" Wide Vertical Steel Caged Ladder Primed	244.80	21.97
	<i>For Galvanized Steel, Add</i>	43.69	
	<i>For Aluminum, Add</i>	87.38	

05 51 33 13-0006 Vertical Ladders Options ^(05 51 33 13)

05 51 33 13-0007	EA 20" Wide Vertical Steel Ladder Walk-Thru Handrails, Primed	366.11	41.21
	Note: Extends 42" above landing surface. Includes mounting bracket.		
	<i>For Galvanized Steel, Add</i>	70.93	
	<i>For Aluminum, Add</i>	141.85	
05 51 33 13-0008	EA 24" Wide Vertical Steel Ladder Walk-Thru Handrails, Primed	400.81	43.95
	Note: Extends 42" above landing surface. Includes mounting bracket.		
	<i>For Galvanized Steel, Add</i>	78.23	
	<i>For Aluminum, Add</i>	156.45	
05 51 33 13-0009	EA Security Cage Entry Gate With Lockable Hasp	548.97	13.74
05 51 33 13-0010	EA 6' Powder Coated, Security Ladder Guard	1,172.37	82.41
05 51 33 13-0011	EA 8' Powder Coated, Security Ladder Guard	1,402.18	96.15
05 51 33 13-0012	EA Safety Chain Attachment	213.88	

05 51 33 13-0013 Welded Steel Ladder Cages ^(05 51 33 13)

Note: For existing fixed ladders up to 20" wide. Excludes the ladder.

05 51 33 13-0014 Powder Coated, Welded Steel Ladder Cages ^(05 51 33 13-0013)

05 51 33 13-0015	EA 7-1/2' Length, Powder Coated, Welded Steel Ladder Cage	2,173.63	164.82
05 51 33 13-0016	EA 8-1/2' Length, Powder Coated, Welded Steel Ladder Cage	2,361.58	170.32
05 51 33 13-0017	EA 9-1/2' Length, Powder Coated, Welded Steel Ladder Cage	2,511.06	175.82
05 51 33 13-0018	EA 10-1/2' Length, Powder Coated, Welded Steel Ladder Cage	2,670.79	181.30
05 51 33 13-0019	EA 11-1/2' Length, Powder Coated, Welded Steel Ladder Cage	2,763.84	186.80
05 51 33 13-0020	EA 12-1/2' Length, Powder Coated, Welded Steel Ladder Cage	2,915.90	192.29



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	05 51 33	13-0021	EA	13-1/2' Length, Powder Coated, Welded Steel Ladder Cage	3,049.99	197.79
	05 51 33	13-0022	EA	14-1/2' Length, Powder Coated, Welded Steel Ladder Cage	3,225.11	203.29
	05 51 33	13-0023	EA	15-1/2' Length, Powder Coated, Welded Steel Ladder Cage	3,395.11	208.77
	05 51 33	13-0024	EA	16-1/2' Length, Powder Coated, Welded Steel Ladder Cage	3,534.33	214.27
	05 51 33	13-0025	EA	17-1/2' Length, Powder Coated, Welded Steel Ladder Cage	3,704.33	219.76
	05 51 33	13-0026	EA	18-1/2' Length, Powder Coated, Welded Steel Ladder Cage	3,869.20	225.26
	05 51 33	13-0027	EA	19-1/2' Length, Powder Coated, Welded Steel Ladder Cage	4,031.49	230.76
	05 51 33	13-0028	EA	20-1/2' Length, Powder Coated, Welded Steel Ladder Cage	4,327.16	236.24
	05 51 33	13-0029	EA	21-1/2' Length, Powder Coated, Welded Steel Ladder Cage	4,415.09	241.74
	05 51 33	13-0030	EA	22-1/2' Length, Powder Coated, Welded Steel Ladder Cage	4,567.13	247.23
	05 51 33	13-0031	EA	23-1/2' Length, Powder Coated, Welded Steel Ladder Cage	4,706.36	252.73
	05 51 33	13-0032	EA	24-1/2' Length, Powder Coated, Welded Steel Ladder Cage	4,835.31	258.23
	05 51 33	13-0033	EA	25-1/2' Length, Powder Coated, Welded Steel Ladder Cage	5,123.29	263.71
	05 51 33	13-0034	EA	26-1/2' Length, Powder Coated, Welded Steel Ladder Cage	5,277.89	269.21
	05 51 33	13-0035	EA	27-1/2' Length, Powder Coated, Welded Steel Ladder Cage	5,422.25	274.70

05 51 33 13-0036 Welded Stainless Steel Ladder Cages (05 51 33 13-0013)

05 51 33 13-0037	EA	7-1/2' Length, Welded Stainless Steel Ladder Cage	5,206.22	164.82
05 51 33 13-0038	EA	8-1/2' Length, Welded Stainless Steel Ladder Cage	5,562.38	170.32
05 51 33 13-0039	EA	9-1/2' Length, Welded Stainless Steel Ladder Cage	6,156.01	175.82
05 51 33 13-0040	EA	10-1/2' Length, Welded Stainless Steel Ladder Cage	6,448.52	181.30
05 51 33 13-0041	EA	11-1/2' Length, Welded Stainless Steel Ladder Cage	6,694.52	186.80
05 51 33 13-0042	EA	12-1/2' Length, Welded Stainless Steel Ladder Cage	7,021.32	192.29
05 51 33 13-0043	EA	13-1/2' Length, Welded Stainless Steel Ladder Cage	7,610.06	197.79
05 51 33 13-0044	EA	14-1/2' Length, Welded Stainless Steel Ladder Cage	7,907.46	203.29
05 51 33 13-0045	EA	15-1/2' Length, Welded Stainless Steel Ladder Cage	8,214.67	208.77
05 51 33 13-0046	EA	16-1/2' Length, Welded Stainless Steel Ladder Cage	8,551.25	214.27
05 51 33 13-0047	EA	17-1/2' Length, Welded Stainless Steel Ladder Cage	9,152.23	219.76
05 51 33 13-0048	EA	18-1/2' Length, Welded Stainless Steel Ladder Cage	9,452.09	225.26
05 51 33 13-0049	EA	19-1/2' Length, Welded Stainless Steel Ladder Cage	9,737.26	230.76
05 51 33 13-0050	EA	20-1/2' Length, Welded Stainless Steel Ladder Cage	10,210.93	236.24
05 51 33 13-0051	EA	21-1/2' Length, Welded Stainless Steel Ladder Cage	10,743.36	241.74
05 51 33 13-0052	EA	22-1/2' Length, Welded Stainless Steel Ladder Cage	11,038.33	247.23
05 51 33 13-0053	EA	23-1/2' Length, Welded Stainless Steel Ladder Cage	11,340.64	252.73
05 51 33 13-0054	EA	24-1/2' Length, Welded Stainless Steel Ladder Cage	11,623.36	258.23
05 51 33 13-0055	EA	25-1/2' Length, Welded Stainless Steel Ladder Cage	12,351.64	263.71
05 51 33 13-0056	EA	26-1/2' Length, Welded Stainless Steel Ladder Cage	12,634.36	269.21
05 51 33 13-0057	EA	27-1/2' Length, Welded Stainless Steel Ladder Cage	12,924.43	274.70

05 51 33 16 Inclined Metal Ladders (05 51 33)

05 51 33 16-0001 Industrial Ship Ladder, Incline Stairs (05 51 33 16)
 Note: Includes factory prime.

05 51 33 16-0002	RSR	3' Wide Industrial Steel Ship Ladder With 2 Rails Each Side	365.97	54.94
		<i>For Aluminum, Add</i>	128.05	

05 51 33 23 Alternating Tread Ladders (05 51 33)

05 51 33 23-0001 Vertical Ladders With Alternating Tread (05 51 33 23)

05 51 33 23-0002	EA	4' Vertical Height Aluminum Alternating Tread Ladder	2,653.74	164.82
		<i>For Stainless Steel, Add</i>	252.52	
		<i>For Primed Steel, Deduct</i>	-210.43	
05 51 33 23-0003	EA	5' Vertical Height Aluminum Alternating Tread Ladder	3,047.57	174.71
		<i>For Stainless Steel, Add</i>	307.69	
		<i>For Primed Steel, Deduct</i>	-240.00	
05 51 33 23-0004	EA	6' Vertical Height Aluminum Alternating Tread Ladder	3,395.91	174.71
		<i>For Stainless Steel, Add</i>	365.28	
		<i>For Primed Steel, Deduct</i>	-266.94	
05 51 33 23-0005	EA	7' Vertical Height Aluminum Alternating Tread Ladder	3,864.61	219.54
		<i>For Stainless Steel, Add</i>	422.83	
		<i>For Primed Steel, Deduct</i>	-289.72	
05 51 33 23-0006	EA	8' Vertical Height Aluminum Alternating Tread Ladder	4,252.77	227.32
		<i>For Stainless Steel, Add</i>	489.30	
		<i>For Primed Steel, Deduct</i>	-314.55	
05 51 33 23-0007	EA	9' Vertical Height Aluminum Alternating Tread Ladder	4,560.56	227.32
		<i>For Stainless Steel, Add</i>	551.40	
		<i>For Primed Steel, Deduct</i>	-332.74	
05 51 33 23-0008	EA	10' Vertical Height Aluminum Alternating Tread Ladder	5,005.72	253.57
		<i>For Stainless Steel, Add</i>	624.07	
		<i>For Primed Steel, Deduct</i>	-353.64	
05 51 33 23-0009	EA	11' Vertical Height Aluminum Alternating Tread Ladder	5,350.57	253.57
		<i>For Stainless Steel, Add</i>	698.32	
		<i>For Primed Steel, Deduct</i>	-371.69	
05 51 33 23-0010	EA	12' Vertical Height Aluminum Alternating Tread Ladder	5,618.88	253.57
		<i>For Stainless Steel, Add</i>	763.78	
		<i>For Primed Steel, Deduct</i>	-381.89	

05 52 Metal Railings (05 50)

05	05	Metals
	05 50	Metal Fabrications
	05 52	Metal Railings



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
------------------------------	---------------------------	-------------------------

05 52 13 Pipe and Tube Railings (05 52)

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

05 52 13 00-0001	Welded Steel Pipe Railing <small>(05 52 13)</small> Note: Includes field welds and touch-up of welds.		
05 52 13 00-0002	One Rail, Up To 42" High, Welded Steel Pipe Railings <small>(05 52 13 00-0001)</small> Note: Includes factory primed posts and one rail.		
05 52 13 00-0003	LF 1" Diameter, Schedule 40, One Rail, Up To 42" High, Welded Steel Pipe Railing.....	37.57	10.99
	<i>For Schedule 80 Handrail, Add</i>	7.82	
	<i>For 11 Gauge A513 Steel Tubing, Deduct</i>	-3.43	
	<i>For 12 Gauge A513 Steel Tubing, Deduct</i>	-3.90	
	<i>For 14 Gauge A513 Steel Tubing, Deduct</i>	-5.15	
	<i>For 16 Gauge A513 Steel Tubing, Deduct</i>	-6.08	
	<i>For Additional Off Set Handrail, ADA Attachment, Add</i>	13.75	
	<i>For Aluminum, Satin Finish, Add</i>	6.55	
	<i>For Aluminum, Clear Anodized Finish, Add</i>	10.14	
	<i>For Aluminum, Dark Anodized Finish, Add</i>	11.70	
	<i>For Galvanizing, Add</i>	6.24	
	<i>For Wrought Iron, Add</i>	3.76	
	<i>For Solid Steel Rails, Add</i>	7.51	
	<i>For 304 Stainless Steel, Add</i>	49.92	
	<i>For 316 Stainless Steel, Add</i>	56.16	
	<i>For 2" Wheel Guard, Add</i>	1.48	
	<i>For 4" High Kick Plate, Add</i>	1.95	
	<i>For 6" High Kick Plate, Add</i>	3.12	
	<i>For Curved Rail, Add</i>	15.95	
	<i>For Mounting On Stairs, Add</i>	11.27	
	<i>For Mounting On Slopes, Add</i>	3.76	
	<i>For Post Base Flange With Screws, Add Per Post</i>	19.70	
	<i>For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post</i>	29.80	
	<i>For Custom Design Or Shapes (Square Tops, etc), Add</i>	13.29	
	<i>For Nylon Coating, Add</i>	2.34	
05 52 13 00-0004	LF 1-1/4" Diameter, Schedule 40, One Rail, Up To 42" High, Welded Steel Pipe Railing	40.26	10.99
	<i>For Schedule 80 Handrail, Add</i>	13.41	
	<i>For 11 Gauge A513 Steel Tubing, Deduct</i>	-4.02	
	<i>For 12 Gauge A513 Steel Tubing, Deduct</i>	-4.57	
	<i>For 14 Gauge A513 Steel Tubing, Deduct</i>	-6.04	
	<i>For 16 Gauge A513 Steel Tubing, Deduct</i>	-7.13	
	<i>For Additional Off Set Handrail, ADA Attachment, Add</i>	15.36	
	<i>For Aluminum, Satin Finish, Add</i>	7.68	
	<i>For Aluminum, Clear Anodized Finish, Add</i>	11.89	
	<i>For Aluminum, Dark Anodized Finish, Add</i>	13.72	
	<i>For Galvanizing, Add</i>	7.32	
	<i>For Wrought Iron, Add</i>	4.03	
	<i>For Solid Steel Rails, Add</i>	8.05	
	<i>For 304 Stainless Steel, Add</i>	58.53	
	<i>For 316 Stainless Steel, Add</i>	65.84	
	<i>For 2" Wheel Guard, Add</i>	1.74	
	<i>For 4" High Kick Plate, Add</i>	2.29	
	<i>For 6" High Kick Plate, Add</i>	3.66	
	<i>For Curved Rail, Add</i>	17.57	
	<i>For Mounting On Stairs, Add</i>	12.08	
	<i>For Mounting On Slopes, Add</i>	4.03	
	<i>For Post Base Flange With Screws, Add Per Post</i>	19.70	
	<i>For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post</i>	29.80	
	<i>For Custom Design Or Shapes (Square Tops, etc), Add</i>	14.64	
	<i>For Nylon Coating, Add</i>	2.74	
05 52 13 00-0005	LF 1-1/2" Diameter, Schedule 40, One Rail, Up To 42" High, Welded Steel Pipe Railing	42.95	10.99
	<i>For Schedule 80 Handrail, Add</i>	13.41	
	<i>For 11 Gauge A513 Steel Tubing, Deduct</i>	-4.62	
	<i>For 12 Gauge A513 Steel Tubing, Deduct</i>	-5.25	
	<i>For 14 Gauge A513 Steel Tubing, Deduct</i>	-6.92	
	<i>For 16 Gauge A513 Steel Tubing, Deduct</i>	-8.18	
	<i>For Additional Off Set Handrail, ADA Attachment, Add</i>	16.98	
	<i>For Aluminum, Satin Finish, Add</i>	8.81	
	<i>For Aluminum, Clear Anodized Finish, Add</i>	13.64	
	<i>For Aluminum, Dark Anodized Finish, Add</i>	15.74	
	<i>For Galvanizing, Add</i>	8.39	
	<i>For Wrought Iron, Add</i>	4.30	
	<i>For Solid Steel Rails, Add</i>	8.59	
	<i>For 304 Stainless Steel, Add</i>	67.14	
	<i>For 316 Stainless Steel, Add</i>	75.53	
	<i>For 2" Wheel Guard, Add</i>	1.99	
	<i>For 4" High Kick Plate, Add</i>	2.62	
	<i>For 6" High Kick Plate, Add</i>	4.20	
	<i>For Curved Rail, Add</i>	19.18	
	<i>For Mounting On Stairs, Add</i>	12.89	
	<i>For Mounting On Slopes, Add</i>	4.30	
	<i>For Post Base Flange With Screws, Add Per Post</i>	19.70	
	<i>For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post</i>	29.80	
	<i>For Custom Design Or Shapes (Square Tops, etc), Add</i>	15.98	
	<i>For Nylon Coating, Add</i>	3.15	



Metals	05	05
Metal Fabrications	05 50	
Metal Railings	05 52	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0006 LF 2" Diameter, Schedule 40, One Rail, Up To 42" High, Welded Steel Pipe Railing.....	47.61	10.99
For Schedule 80 Handrail, Add	15.67	
For 11 Gauge A513 Steel Tubing, Deduct	-5.64	
For 12 Gauge A513 Steel Tubing, Deduct	-6.41	
For 14 Gauge A513 Steel Tubing, Deduct	-8.46	
For 16 Gauge A513 Steel Tubing, Deduct	-10.00	
For Additional Off Set Handrail, ADA Attachment, Add	19.77	
For Aluminum, Satin Finish, Add	10.77	
For Aluminum, Clear Anodized Finish, Add	16.67	
For Aluminum, Dark Anodized Finish, Add	19.23	
For Galvanizing, Add	10.26	
For Wrought Iron, Add	4.76	
For Solid Steel Rails, Add	9.52	
For 304 Stainless Steel, Add	82.05	
For 316 Stainless Steel, Add	92.30	
For 2" Wheel Guard, Add	2.44	
For 4" High Kick Plate, Add	3.21	
For 6" High Kick Plate, Add	5.13	
For Curved Rail, Add	21.98	
For Mounting On Stairs, Add	14.28	
For Mounting On Slopes, Add	4.76	
For Post Base Flange With Screws, Add Per Post	19.70	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.80	
For Custom Design Or Shapes (Square Tops, etc), Add	18.31	
For Nylon Coating, Add	3.85	
05 52 13 00-0007 LF 2-1/2" Diameter, Schedule 40, One Rail, Up To 42" High, Welded Steel Pipe Railing	53.20	10.99
For Schedule 80 Handrail, Add	17.96	
For 11 Gauge A513 Steel Tubing, Deduct	-6.87	
For 12 Gauge A513 Steel Tubing, Deduct	-7.81	
For 14 Gauge A513 Steel Tubing, Deduct	-10.31	
For 16 Gauge A513 Steel Tubing, Deduct	-12.18	
For Additional Off Set Handrail, ADA Attachment, Add	23.13	
For Aluminum, Satin Finish, Add	13.12	
For Aluminum, Clear Anodized Finish, Add	20.30	
For Aluminum, Dark Anodized Finish, Add	23.42	
For Galvanizing, Add	12.49	
For Wrought Iron, Add	5.32	
For Solid Steel Rails, Add	10.64	
For 304 Stainless Steel, Add	99.94	
For 316 Stainless Steel, Add	112.43	
For 2" Wheel Guard, Add	2.97	
For 4" High Kick Plate, Add	3.90	
For 6" High Kick Plate, Add	6.25	
For Curved Rail, Add	25.33	
For Mounting On Stairs, Add	15.96	
For Mounting On Slopes, Add	5.32	
For Post Base Flange With Screws, Add Per Post	19.70	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.80	
For Custom Design Or Shapes (Square Tops, etc), Add	21.11	
For Nylon Coating, Add	4.68	
05 52 13 00-0008 Two Rail, Up To 42" High, Welded Steel Pipe Railings (05 52 13 00-0001)		
Note: Includes factory primed posts and two rails.		
05 52 13 00-0009 LF 1" Diameter, Schedule 40, Two Rail, Up To 42" High, Welded Steel Pipe Railing.....	50.57	10.99
For Schedule 80 Handrail, Add	7.82	
For 11 Gauge A513 Steel Tubing, Deduct	-6.29	
For 12 Gauge A513 Steel Tubing, Deduct	-7.15	
For 14 Gauge A513 Steel Tubing, Deduct	-9.44	
For 16 Gauge A513 Steel Tubing, Deduct	-11.15	
For Additional Off Set Handrail, ADA Attachment, Add	13.75	
For Aluminum, Satin Finish, Add	12.01	
For Aluminum, Clear Anodized Finish, Add	18.59	
For Aluminum, Dark Anodized Finish, Add	21.45	
For Galvanizing, Add	11.44	
For Wrought Iron, Add	5.06	
For Solid Steel Rails, Add	10.11	
For 304 Stainless Steel, Add	91.52	
For 316 Stainless Steel, Add	102.96	
For 2" Wheel Guard, Add	2.72	
For 4" High Kick Plate, Add	3.58	
For 6" High Kick Plate, Add	5.72	
For Curved Rail, Add	23.75	
For Mounting On Stairs, Add	15.17	
For Mounting On Slopes, Add	5.06	
For Post Base Flange With Screws, Add Per Post	19.70	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.80	
For Custom Design Or Shapes (Square Tops, etc), Add	19.79	
For Nylon Coating, Add	4.29	



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0010	LF	1-1/4" Diameter, Schedule 40, Two Rail, Up To 42" High, Welded Steel Pipe Railing	55.50	10.99
		For Schedule 80 Handrail, Add	13.41	
		For 11 Gauge A513 Steel Tubing, Deduct	-7.38	
		For 12 Gauge A513 Steel Tubing, Deduct	-8.38	
		For 14 Gauge A513 Steel Tubing, Deduct	-11.06	
		For 16 Gauge A513 Steel Tubing, Deduct	-13.08	
		For Additional Off Set Handrail, ADA Attachment, Add	15.36	
		For Aluminum, Satin Finish, Add	14.08	
		For Aluminum, Clear Anodized Finish, Add	21.79	
		For Aluminum, Dark Anodized Finish, Add	25.15	
		For Galvanizing, Add	13.41	
		For Wrought Iron, Add	5.55	
		For Solid Steel Rails, Add	11.10	
		For 304 Stainless Steel, Add	107.30	
		For 316 Stainless Steel, Add	120.71	
		For 2" Wheel Guard, Add	3.19	
		For 4" High Kick Plate, Add	4.19	
		For 6" High Kick Plate, Add	6.71	
		For Curved Rail, Add	26.71	
		For Mounting On Stairs, Add	16.65	
		For Mounting On Slopes, Add	5.55	
		For Post Base Flange With Screws, Add Per Post	19.70	
		For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.80	
		For Custom Design Or Shapes (Square Tops, etc), Add	22.26	
		For Nylon Coating, Add	5.03	
05 52 13 00-0011	LF	1-1/2" Diameter, Schedule 40, Two Rail, Up To 42" High, Welded Steel Pipe Railing	60.43	10.99
		For Schedule 80 Handrail, Add	13.41	
		For 11 Gauge A513 Steel Tubing, Deduct	-8.46	
		For 12 Gauge A513 Steel Tubing, Deduct	-9.62	
		For 14 Gauge A513 Steel Tubing, Deduct	-12.69	
		For 16 Gauge A513 Steel Tubing, Deduct	-15.00	
		For Additional Off Set Handrail, ADA Attachment, Add	16.98	
		For Aluminum, Satin Finish, Add	16.15	
		For Aluminum, Clear Anodized Finish, Add	25.00	
		For Aluminum, Dark Anodized Finish, Add	28.85	
		For Galvanizing, Add	15.38	
		For Wrought Iron, Add	6.04	
		For Solid Steel Rails, Add	12.09	
		For 304 Stainless Steel, Add	123.07	
		For 316 Stainless Steel, Add	138.46	
		For 2" Wheel Guard, Add	3.65	
		For 4" High Kick Plate, Add	4.81	
		For 6" High Kick Plate, Add	7.69	
		For Curved Rail, Add	29.67	
		For Mounting On Stairs, Add	18.13	
		For Mounting On Slopes, Add	6.04	
		For Post Base Flange With Screws, Add Per Post	19.70	
		For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.80	
		For Custom Design Or Shapes (Square Tops, etc), Add	24.72	
		For Nylon Coating, Add	5.77	
05 52 13 00-0012	LF	2" Diameter, Schedule 40, Two Rail, Up To 42" High, Welded Steel Pipe Railing.....	68.97	10.99
		For Schedule 80 Handrail, Add	15.67	
		For 11 Gauge A513 Steel Tubing, Deduct	-10.34	
		For 12 Gauge A513 Steel Tubing, Deduct	-11.75	
		For 14 Gauge A513 Steel Tubing, Deduct	-15.51	
		For 16 Gauge A513 Steel Tubing, Deduct	-18.33	
		For Additional Off Set Handrail, ADA Attachment, Add	19.77	
		For Aluminum, Satin Finish, Add	19.74	
		For Aluminum, Clear Anodized Finish, Add	30.55	
		For Aluminum, Dark Anodized Finish, Add	35.25	
		For Galvanizing, Add	18.80	
		For Wrought Iron, Add	6.90	
		For Solid Steel Rails, Add	13.79	
		For 304 Stainless Steel, Add	150.40	
		For 316 Stainless Steel, Add	169.20	
		For 2" Wheel Guard, Add	4.47	
		For 4" High Kick Plate, Add	5.88	
		For 6" High Kick Plate, Add	9.40	
		For Curved Rail, Add	34.79	
		For Mounting On Stairs, Add	20.69	
		For Mounting On Slopes, Add	6.90	
		For Post Base Flange With Screws, Add Per Post	19.70	
		For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.80	
		For Custom Design Or Shapes (Square Tops, etc), Add	28.99	
		For Nylon Coating, Add	7.05	



Metals	05	05
Metal Fabrications	05 50	
Metal Railings	05 52	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0013 LF 2-1/2" Diameter, Schedule 40, Two Rail, Up To 42" High, Welded Steel Pipe Railing	79.21	10.99
For Schedule 80 Handrail, Add	17.96	
For 11 Gauge A513 Steel Tubing, Deduct	-12.59	
For 12 Gauge A513 Steel Tubing, Deduct	-14.31	
For 14 Gauge A513 Steel Tubing, Deduct	-18.89	
For 16 Gauge A513 Steel Tubing, Deduct	-22.32	
For Additional Off Set Handrail, ADA Attachment, Add	23.13	
For Aluminum, Satin Finish, Add	24.04	
For Aluminum, Clear Anodized Finish, Add	37.21	
For Aluminum, Dark Anodized Finish, Add	42.93	
For Galvanizing, Add	22.90	
For Wrought Iron, Add	7.92	
For Solid Steel Rails, Add	15.84	
For 304 Stainless Steel, Add	183.17	
For 316 Stainless Steel, Add	206.06	
For 2" Wheel Guard, Add	5.44	
For 4" High Kick Plate, Add	7.16	
For 6" High Kick Plate, Add	11.45	
For Curved Rail, Add	40.94	
For Mounting On Stairs, Add	23.76	
For Mounting On Slopes, Add	7.92	
For Post Base Flange With Screws, Add Per Post	19.70	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.80	
For Custom Design Or Shapes (Square Tops, etc), Add	34.11	
For Nylon Coating, Add	8.59	
05 52 13 00-0014 Three Rail, Up To 42" High, Welded Steel Pipe Railings (05 52 13 00-0001)		
Note: Includes factory primed posts and three rails.		
05 52 13 00-0015 LF 1" Diameter, Schedule 40, Three Rail, Up To 42" High, Welded Steel Pipe Railing	76.55	13.18
For Schedule 80 Handrail, Add	10.99	
For 11 Gauge A513 Steel Tubing, Deduct	-11.04	
For 12 Gauge A513 Steel Tubing, Deduct	-12.54	
For 14 Gauge A513 Steel Tubing, Deduct	-16.56	
For 16 Gauge A513 Steel Tubing, Deduct	-19.57	
For Additional Off Set Handrail, ADA Attachment, Add	14.64	
For Aluminum, Satin Finish, Add	21.07	
For Aluminum, Clear Anodized Finish, Add	32.61	
For Aluminum, Dark Anodized Finish, Add	37.63	
For Galvanizing, Add	20.07	
For Wrought Iron, Add	7.66	
For Solid Steel Rails, Add	15.31	
For 304 Stainless Steel, Add	160.54	
For 316 Stainless Steel, Add	180.61	
For 2" Wheel Guard, Add	4.77	
For 4" High Kick Plate, Add	6.27	
For 6" High Kick Plate, Add	10.03	
For Curved Rail, Add	38.02	
For Mounting On Stairs, Add	22.97	
For Mounting On Slopes, Add	7.66	
For Post Base Flange With Screws, Add Per Post	20.14	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	30.46	
For Custom Design Or Shapes (Square Tops, etc), Add	31.68	
For Nylon Coating, Add	7.53	
05 52 13 00-0016 LF 1-1/4" Diameter, Schedule 40, Three Rail, Up To 42" High, Welded Steel Pipe Railing	85.18	13.18
For Schedule 80 Handrail, Add	18.45	
For 11 Gauge A513 Steel Tubing, Deduct	-12.94	
For 12 Gauge A513 Steel Tubing, Deduct	-14.70	
For 14 Gauge A513 Steel Tubing, Deduct	-19.40	
For 16 Gauge A513 Steel Tubing, Deduct	-22.93	
For Additional Off Set Handrail, ADA Attachment, Add	16.25	
For Aluminum, Satin Finish, Add	24.70	
For Aluminum, Clear Anodized Finish, Add	38.22	
For Aluminum, Dark Anodized Finish, Add	44.10	
For Galvanizing, Add	23.52	
For Wrought Iron, Add	8.52	
For Solid Steel Rails, Add	17.04	
For 304 Stainless Steel, Add	188.16	
For 316 Stainless Steel, Add	211.68	
For 2" Wheel Guard, Add	5.59	
For 4" High Kick Plate, Add	7.35	
For 6" High Kick Plate, Add	11.76	
For Curved Rail, Add	43.19	
For Mounting On Stairs, Add	25.55	
For Mounting On Slopes, Add	8.52	
For Post Base Flange With Screws, Add Per Post	20.14	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	30.46	
For Custom Design Or Shapes (Square Tops, etc), Add	36.00	
For Nylon Coating, Add	8.82	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0017 LF 1-1/2" Diameter, Schedule 40, Three Rail, Up To 42" High, Welded Steel Pipe Railing.....	93.82	13.18
For Schedule 80 Handrail, Add	18.45	
For 11 Gauge A513 Steel Tubing, Deduct	-14.84	
For 12 Gauge A513 Steel Tubing, Deduct	-16.86	
For 14 Gauge A513 Steel Tubing, Deduct	-22.26	
For 16 Gauge A513 Steel Tubing, Deduct	-26.30	
For Additional Off Set Handrail, ADA Attachment, Add	17.87	
For Aluminum, Satin Finish, Add	28.32	
For Aluminum, Clear Anodized Finish, Add	43.84	
For Aluminum, Dark Anodized Finish, Add	50.58	
For Galvanizing, Add	26.98	
For Wrought Iron, Add	9.38	
For Solid Steel Rails, Add	18.76	
For 304 Stainless Steel, Add	215.81	
For 316 Stainless Steel, Add	242.78	
For 2" Wheel Guard, Add	6.41	
For 4" High Kick Plate, Add	8.43	
For 6" High Kick Plate, Add	13.49	
For Curved Rail, Add	48.38	
For Mounting On Stairs, Add	28.15	
For Mounting On Slopes, Add	9.38	
For Post Base Flange With Screws, Add Per Post	20.14	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	30.46	
For Custom Design Or Shapes (Square Tops, etc), Add	40.32	
For Nylon Coating, Add	10.12	
05 52 13 00-0018 LF 2" Diameter, Schedule 40, Three Rail, Up To 42" High, Welded Steel Pipe Railing	108.83	13.18
For Schedule 80 Handrail, Add	21.46	
For 11 Gauge A513 Steel Tubing, Deduct	-18.14	
For 12 Gauge A513 Steel Tubing, Deduct	-20.61	
For 14 Gauge A513 Steel Tubing, Deduct	-27.21	
For 16 Gauge A513 Steel Tubing, Deduct	-32.16	
For Additional Off Set Handrail, ADA Attachment, Add	20.66	
For Aluminum, Satin Finish, Add	34.63	
For Aluminum, Clear Anodized Finish, Add	53.59	
For Aluminum, Dark Anodized Finish, Add	61.84	
For Galvanizing, Add	32.98	
For Wrought Iron, Add	10.88	
For Solid Steel Rails, Add	21.77	
For 304 Stainless Steel, Add	263.84	
For 316 Stainless Steel, Add	296.82	
For 2" Wheel Guard, Add	7.83	
For 4" High Kick Plate, Add	10.31	
For 6" High Kick Plate, Add	16.49	
For Curved Rail, Add	57.38	
For Mounting On Stairs, Add	32.65	
For Mounting On Slopes, Add	10.88	
For Post Base Flange With Screws, Add Per Post	20.14	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	30.46	
For Custom Design Or Shapes (Square Tops, etc), Add	47.82	
For Nylon Coating, Add	12.37	
05 52 13 00-0019 LF 2-1/2" Diameter, Schedule 40, Three Rail, Up To 42" High, Welded Steel Pipe Railing.....	126.71	13.18
For Schedule 80 Handrail, Add	24.51	
For 11 Gauge A513 Steel Tubing, Deduct	-22.07	
For 12 Gauge A513 Steel Tubing, Deduct	-25.08	
For 14 Gauge A513 Steel Tubing, Deduct	-33.11	
For 16 Gauge A513 Steel Tubing, Deduct	-39.13	
For Additional Off Set Handrail, ADA Attachment, Add	24.02	
For Aluminum, Satin Finish, Add	42.14	
For Aluminum, Clear Anodized Finish, Add	65.21	
For Aluminum, Dark Anodized Finish, Add	75.25	
For Galvanizing, Add	40.13	
For Wrought Iron, Add	12.67	
For Solid Steel Rails, Add	25.34	
For 304 Stainless Steel, Add	321.06	
For 316 Stainless Steel, Add	361.19	
For 2" Wheel Guard, Add	9.53	
For 4" High Kick Plate, Add	12.54	
For 6" High Kick Plate, Add	20.07	
For Curved Rail, Add	68.11	
For Mounting On Stairs, Add	38.01	
For Mounting On Slopes, Add	12.67	
For Post Base Flange With Screws, Add Per Post	20.14	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	30.46	
For Custom Design Or Shapes (Square Tops, etc), Add	56.76	
For Nylon Coating, Add	15.05	

05 52 13 00-0020 Four Rail, Up To 42" High, Welded Steel Pipe Railings (05 52 13 00-0001)
 Note: Includes factory primed posts and four rails.



	Metals	05
	Metal Fabrications	05 50
	Metal Railings	05 52

05

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0021 LF 1" Diameter, Schedule 40, Four Rail, Up To 42" High, Welded Steel Pipe Railing.....	92.34	15.38
For Schedule 80 Handrail, Add	14.45	
For 11 Gauge A513 Steel Tubing, Deduct	-13.55	
For 12 Gauge A513 Steel Tubing, Deduct	-15.39	
For 14 Gauge A513 Steel Tubing, Deduct	-20.32	
For 16 Gauge A513 Steel Tubing, Deduct	-24.01	
For Additional Off Set Handrail, ADA Attachment, Add	15.51	
For Aluminum, Satin Finish, Add	25.86	
For Aluminum, Clear Anodized Finish, Add	40.02	
For Aluminum, Dark Anodized Finish, Add	46.18	
For Galvanizing, Add	24.63	
For Wrought Iron, Add	9.23	
For Solid Steel Rails, Add	18.47	
For 304 Stainless Steel, Add	197.02	
For 316 Stainless Steel, Add	221.65	
For 2" Wheel Guard, Add	5.85	
For 4" High Kick Plate, Add	7.70	
For 6" High Kick Plate, Add	12.31	
For Curved Rail, Add	46.17	
For Mounting On Stairs, Add	27.70	
For Mounting On Slopes, Add	9.23	
For Post Base Flange With Screws, Add Per Post	20.58	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	31.12	
For Custom Design Or Shapes (Square Tops, etc), Add	38.48	
For Nylon Coating, Add	9.24	
05 52 13 00-0022 LF 1-1/4" Diameter, Schedule 40, Four Rail, Up To 42" High, Welded Steel Pipe Railing.....	100.01	15.38
For Schedule 80 Handrail, Add	23.77	
For 11 Gauge A513 Steel Tubing, Deduct	-15.23	
For 12 Gauge A513 Steel Tubing, Deduct	-17.31	
For 14 Gauge A513 Steel Tubing, Deduct	-22.85	
For 16 Gauge A513 Steel Tubing, Deduct	-27.00	
For Additional Off Set Handrail, ADA Attachment, Add	17.12	
For Aluminum, Satin Finish, Add	29.08	
For Aluminum, Clear Anodized Finish, Add	45.01	
For Aluminum, Dark Anodized Finish, Add	51.93	
For Galvanizing, Add	27.70	
For Wrought Iron, Add	10.00	
For Solid Steel Rails, Add	20.00	
For 304 Stainless Steel, Add	221.57	
For 316 Stainless Steel, Add	249.26	
For 2" Wheel Guard, Add	6.58	
For 4" High Kick Plate, Add	8.66	
For 6" High Kick Plate, Add	13.85	
For Curved Rail, Add	50.78	
For Mounting On Stairs, Add	30.00	
For Mounting On Slopes, Add	10.00	
For Post Base Flange With Screws, Add Per Post	20.58	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	31.12	
For Custom Design Or Shapes (Square Tops, etc), Add	42.31	
For Nylon Coating, Add	10.39	
05 52 13 00-0023 LF 1-1/2" Diameter, Schedule 40, Four Rail, Up To 42" High, Welded Steel Pipe Railing.....	107.68	15.38
For Schedule 80 Handrail, Add	23.77	
For 11 Gauge A513 Steel Tubing, Deduct	-16.92	
For 12 Gauge A513 Steel Tubing, Deduct	-19.23	
For 14 Gauge A513 Steel Tubing, Deduct	-25.38	
For 16 Gauge A513 Steel Tubing, Deduct	-29.99	
For Additional Off Set Handrail, ADA Attachment, Add	18.74	
For Aluminum, Satin Finish, Add	32.30	
For Aluminum, Clear Anodized Finish, Add	49.99	
For Aluminum, Dark Anodized Finish, Add	57.68	
For Galvanizing, Add	30.76	
For Wrought Iron, Add	10.77	
For Solid Steel Rails, Add	21.54	
For 304 Stainless Steel, Add	246.11	
For 316 Stainless Steel, Add	276.88	
For 2" Wheel Guard, Add	7.31	
For 4" High Kick Plate, Add	9.61	
For 6" High Kick Plate, Add	15.38	
For Curved Rail, Add	55.38	
For Mounting On Stairs, Add	32.30	
For Mounting On Slopes, Add	10.77	
For Post Base Flange With Screws, Add Per Post	20.58	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	31.12	
For Custom Design Or Shapes (Square Tops, etc), Add	46.15	
For Nylon Coating, Add	11.54	

05	05 Metals
	05 50 Metal Fabrications
	05 52 Metal Railings



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0024 LF 2" Diameter, Schedule 40, Four Rail, Up To 42" High, Welded Steel Pipe Railing	124.76	15.38
For Schedule 80 Handrail, Add	27.54	
For 11 Gauge A513 Steel Tubing, Deduct	-20.68	
For 12 Gauge A513 Steel Tubing, Deduct	-23.50	
For 14 Gauge A513 Steel Tubing, Deduct	-31.02	
For 16 Gauge A513 Steel Tubing, Deduct	-36.66	
For Additional Off Set Handrail, ADA Attachment, Add	21.53	
For Aluminum, Satin Finish, Add	39.48	
For Aluminum, Clear Anodized Finish, Add	61.09	
For Aluminum, Dark Anodized Finish, Add	70.49	
For Galvanizing, Add	37.60	
For Wrought Iron, Add	12.48	
For Solid Steel Rails, Add	24.95	
For 304 Stainless Steel, Add	300.77	
For 316 Stainless Steel, Add	338.36	
For 2" Wheel Guard, Add	8.93	
For 4" High Kick Plate, Add	11.75	
For 6" High Kick Plate, Add	18.80	
For Curved Rail, Add	65.63	
For Mounting On Stairs, Add	37.43	
For Mounting On Slopes, Add	12.48	
For Post Base Flange With Screws, Add Per Post	20.58	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	31.12	
For Custom Design Or Shapes (Square Tops, etc), Add	54.69	
For Nylon Coating, Add	14.10	
05 52 13 00-0025 LF 2-1/2" Diameter, Schedule 40, Four Rail, Up To 42" High, Welded Steel Pipe Railing	144.78	15.38
For Schedule 80 Handrail, Add	31.35	
For 11 Gauge A513 Steel Tubing, Deduct	-25.08	
For 12 Gauge A513 Steel Tubing, Deduct	-28.50	
For 14 Gauge A513 Steel Tubing, Deduct	-37.62	
For 16 Gauge A513 Steel Tubing, Deduct	-44.46	
For Additional Off Set Handrail, ADA Attachment, Add	24.89	
For Aluminum, Satin Finish, Add	47.88	
For Aluminum, Clear Anodized Finish, Add	74.11	
For Aluminum, Dark Anodized Finish, Add	85.51	
For Galvanizing, Add	45.60	
For Wrought Iron, Add	14.48	
For Solid Steel Rails, Add	28.96	
For 304 Stainless Steel, Add	364.83	
For 316 Stainless Steel, Add	410.44	
For 2" Wheel Guard, Add	10.83	
For 4" High Kick Plate, Add	14.25	
For 6" High Kick Plate, Add	22.80	
For Curved Rail, Add	77.64	
For Mounting On Stairs, Add	43.43	
For Mounting On Slopes, Add	14.48	
For Post Base Flange With Screws, Add Per Post	20.58	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	31.12	
For Custom Design Or Shapes (Square Tops, etc), Add	64.70	
For Nylon Coating, Add	17.10	
05 52 13 00-0026 Railing Infill Panels <small>(05 52 13)</small>		
Note: Includes field welds and touch-up of welds.		
05 52 13 00-0027 Wire Mesh Or Welded Wire Mesh, Railing Infill Panels <small>(05 52 13 00-0026)</small>		
Note: Square weave or square welded wire mesh.		
05 52 13 00-0028 SF Powder Coated Steel, Wire Mesh Or Welded Wire Mesh, Railing Infill Panel	14.87	
05 52 13 00-0029 SF Galvanized Steel, Wire Mesh Or Welded Wire Mesh, Railing Infill Panel	15.79	
05 52 13 00-0030 SF Aluminum, Wire Mesh Or Welded Wire Mesh, Railing Infill Panel	16.60	
05 52 13 00-0031 SF Stainless Steel, Wire Mesh Or Welded Wire Mesh, Railing Infill Panel.....	28.07	
05 52 13 00-0032 Perforated Metal, Railing Infill Panels <small>(05 52 13 00-0026)</small>		
05 52 13 00-0033 SF Powder Coated Steel, Perforated Metal, Railing Infill Panel	14.58	
05 52 13 00-0034 SF Galvanized Steel, Perforated Metal, Railing Infill Panel	15.07	
05 52 13 00-0035 SF Aluminum, Perforated Metal, Railing Infill Panel	16.14	
05 52 13 00-0036 SF Stainless Steel, Perforated Metal, Railing Infill Panel	32.39	
05 52 13 00-0037 Expanded Metal, Railing Infill Panels <small>(05 52 13 00-0026)</small>		
05 52 13 00-0038 SF Powder Coated Steel, Expanded Metal, Railing Infill Panel.....	6.58	
05 52 13 00-0039 SF Galvanized Steel, Expanded Metal, Railing Infill Panel	13.44	
05 52 13 00-0040 SF Aluminum, Expanded Metal, Railing Infill Panel.....	17.65	
05 52 13 00-0041 SF Stainless Steel, Expanded Metal, Railing Infill Panel.....	26.31	
05 52 13 00-0042 Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railings <small>(05 52 13)</small>		
Note: Includes factory primed, fasteners and field touch-up of welds.		



	Metals	05	
	Metal Fabrications	05 50	05
	Metal Railings	05 52	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0043 LF 1" Diameter, Schedule 40, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing.....	38.37	6.59
For Schedule 80 Handrail, Add	3.62	
For 11 Gauge A513 Steel Tubing, Deduct	-4.82	
For 12 Gauge A513 Steel Tubing, Deduct	-5.47	
For 14 Gauge A513 Steel Tubing, Deduct	-7.22	
For 16 Gauge A513 Steel Tubing, Deduct	-8.54	
For Stainless Steel, Add	43.78	
For Aluminum, Satin Finish, Add	9.19	
For Curved Rail, Add	11.51	
For Aluminum, Clear Anodized Finish, Add	14.23	
For Aluminum, Dark Anodized Finish, Add	16.42	
For Galvanized Finish, Add	6.57	
05 52 13 00-0044 LF 1-1/4" Diameter, Schedule 40, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing	39.08	6.59
For Schedule 80 Handrail, Add	4.53	
For 11 Gauge A513 Steel Tubing, Deduct	-4.97	
For 12 Gauge A513 Steel Tubing, Deduct	-5.65	
For 14 Gauge A513 Steel Tubing, Deduct	-7.46	
For 16 Gauge A513 Steel Tubing, Deduct	-8.81	
For Stainless Steel, Add	45.20	
For Aluminum, Satin Finish, Add	9.49	
For Curved Rail, Add	11.72	
For Aluminum, Clear Anodized Finish, Add	14.69	
For Aluminum, Dark Anodized Finish, Add	16.95	
For Galvanized Finish, Add	6.78	
05 52 13 00-0045 LF 1-1/2" Diameter, Schedule 40, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing	39.79	6.59
For Schedule 80 Handrail, Add	16.97	
For 11 Gauge A513 Steel Tubing, Deduct	-5.13	
For 12 Gauge A513 Steel Tubing, Deduct	-5.83	
For 14 Gauge A513 Steel Tubing, Deduct	-7.69	
For 16 Gauge A513 Steel Tubing, Deduct	-9.09	
For Stainless Steel, Add	46.62	
For Aluminum, Satin Finish, Add	9.79	
For Curved Rail, Add	11.94	
For Aluminum, Clear Anodized Finish, Add	15.15	
For Aluminum, Dark Anodized Finish, Add	17.48	
For Galvanized Finish, Add	6.99	
05 52 13 00-0046 LF 2" Diameter, Schedule 40, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing.....	47.91	6.59
For Schedule 80 Handrail, Add	6.23	
For 11 Gauge A513 Steel Tubing, Deduct	-6.91	
For 12 Gauge A513 Steel Tubing, Deduct	-7.86	
For 14 Gauge A513 Steel Tubing, Deduct	-10.37	
For 16 Gauge A513 Steel Tubing, Deduct	-12.26	
For Stainless Steel, Add	62.86	
For Aluminum, Satin Finish, Add	13.20	
For Curved Rail, Add	14.37	
For Aluminum, Clear Anodized Finish, Add	20.43	
For Aluminum, Dark Anodized Finish, Add	23.57	
For Galvanized Finish, Add	9.43	
05 52 13 00-0047 LF 2-1/2" Diameter, Schedule 40, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing	54.62	6.59
For Schedule 80 Handrail, Add	7.00	
For 11 Gauge A513 Steel Tubing, Deduct	-8.39	
For 12 Gauge A513 Steel Tubing, Deduct	-9.54	
For 14 Gauge A513 Steel Tubing, Deduct	-12.59	
For 16 Gauge A513 Steel Tubing, Deduct	-14.87	
For Stainless Steel, Add	76.28	
For Aluminum, Satin Finish, Add	16.02	
For Curved Rail, Add	16.39	
For Aluminum, Clear Anodized Finish, Add	24.79	
For Aluminum, Dark Anodized Finish, Add	28.61	
For Galvanized Finish, Add	11.44	
05 52 13 00-0048 Custom Shapes, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railings <small>(05 52 13)</small>		
Note: Includes factory primed, fasteners and field touch-up of welds.		
05 52 13 00-0049 LF 1" Diameter, Custom Shapes, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing	46.67	6.92
For Schedule 80 Handrail, Add	3.62	
For 11 Gauge A513 Steel Tubing, Deduct	-6.64	
For 12 Gauge A513 Steel Tubing, Deduct	-7.55	
For 14 Gauge A513 Steel Tubing, Deduct	-9.96	
For 16 Gauge A513 Steel Tubing, Deduct	-11.77	
For Stainless Steel, Add	60.38	
For Aluminum, Satin Finish, Add	12.68	
For Curved Rail, Add	14.00	
For Aluminum, Clear Anodized Finish, Add	19.62	
For Aluminum, Dark Anodized Finish, Add	22.64	
For Galvanized Finish, Add	9.06	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0050	LF		1-1/4" Diameter, Custom Shapes, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing	47.66	6.92
			<i>For Schedule 80 Handrail, Add</i>	4.53	
			<i>For 11 Gauge A513 Steel Tubing, Deduct</i>	-6.86	
			<i>For 12 Gauge A513 Steel Tubing, Deduct</i>	-7.80	
			<i>For 14 Gauge A513 Steel Tubing, Deduct</i>	-10.29	
			<i>For 16 Gauge A513 Steel Tubing, Deduct</i>	-12.16	
			<i>For Stainless Steel, Add</i>	62.36	
			<i>For Aluminum, Satin Finish, Add</i>	13.10	
			<i>For Curved Rail, Add</i>	14.30	
			<i>For Aluminum, Clear Anodized Finish, Add</i>	20.27	
			<i>For Aluminum, Dark Anodized Finish, Add</i>	23.39	
			<i>For Galvanized Finish, Add</i>	9.35	
05 52 13 00-0051	LF		1-1/2" Diameter, Custom Shapes, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing	48.40	6.92
			<i>For Schedule 80 Handrail, Add</i>	16.97	
			<i>For 11 Gauge A513 Steel Tubing, Deduct</i>	-7.02	
			<i>For 12 Gauge A513 Steel Tubing, Deduct</i>	-7.98	
			<i>For 14 Gauge A513 Steel Tubing, Deduct</i>	-10.53	
			<i>For 16 Gauge A513 Steel Tubing, Deduct</i>	-12.45	
			<i>For Stainless Steel, Add</i>	63.84	
			<i>For Aluminum, Satin Finish, Add</i>	13.41	
			<i>For Curved Rail, Add</i>	14.52	
			<i>For Aluminum, Clear Anodized Finish, Add</i>	20.75	
			<i>For Aluminum, Dark Anodized Finish, Add</i>	23.94	
			<i>For Galvanized Finish, Add</i>	9.58	
05 52 13 00-0052	LF		2" Diameter, Custom Shapes, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing	59.74	6.92
			<i>For Schedule 80 Handrail, Add</i>	6.23	
			<i>For 11 Gauge A513 Steel Tubing, Deduct</i>	-9.52	
			<i>For 12 Gauge A513 Steel Tubing, Deduct</i>	-10.82	
			<i>For 14 Gauge A513 Steel Tubing, Deduct</i>	-14.28	
			<i>For 16 Gauge A513 Steel Tubing, Deduct</i>	-16.87	
			<i>For Stainless Steel, Add</i>	86.52	
			<i>For Aluminum, Satin Finish, Add</i>	18.17	
			<i>For Curved Rail, Add</i>	17.92	
			<i>For Aluminum, Clear Anodized Finish, Add</i>	28.12	
			<i>For Aluminum, Dark Anodized Finish, Add</i>	32.45	
			<i>For Galvanized Finish, Add</i>	12.98	
05 52 13 00-0053	LF		2-1/2" Diameter, Custom Shapes, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing	67.15	6.92
			<i>For Schedule 80 Handrail, Add</i>	7.00	
			<i>For 11 Gauge A513 Steel Tubing, Deduct</i>	-11.15	
			<i>For 12 Gauge A513 Steel Tubing, Deduct</i>	-12.67	
			<i>For 14 Gauge A513 Steel Tubing, Deduct</i>	-16.72	
			<i>For 16 Gauge A513 Steel Tubing, Deduct</i>	-19.76	
			<i>For Stainless Steel, Add</i>	101.34	
			<i>For Aluminum, Satin Finish, Add</i>	21.28	
			<i>For Curved Rail, Add</i>	20.15	
			<i>For Aluminum, Clear Anodized Finish, Add</i>	32.94	
			<i>For Aluminum, Dark Anodized Finish, Add</i>	38.00	
			<i>For Galvanized Finish, Add</i>	15.20	
05 52 13 00-0054			Remove And Reinstall Pipe Railing (05 52 13)		
05 52 13 00-0055	LF		Removal And Reinstallation Of Wall Bracket Mounted Pipe Railing	24.73	
05 52 13 00-0056	LF		Removal And Reinstallation Of Floor Mounted Pipe Railing	33.09	
05 52 13 00-0057	EA		Install New Galvanized Steel Pipe Railing Bracket	65.65	
			<i>For Stainless Steel, Add</i>	65.36	

05 53 Metal Gratings (05 50)

05 53 13 Bar Gratings (05 53)

05 53 13 00-0001 Welded Grating (05 53 13)

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

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

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

05 53 13 00-0003	SF		3/4" x 1/8" Steel, Welded Grating	13.70	1.21
			<i>For One Coat Of Shop Applied Paint (Red Or Black), Add</i>	0.22	
			<i>For Galvanized Steel, Add</i>	1.92	
			<i>For 304 Stainless Steel, Add</i>	36.24	
			<i>Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center</i>		
			<i>For Bearing Bars At 15/16" On-Center, Add</i>	3.30	
			<i>For Crossbars At 2" On-Center, Add</i>	1.22	
			<i>For Set In Place Without Bolting Or Tack Welding, Deduct</i>	-1.90	
05 53 13 00-0004	SF		3/4" x 3/16" Steel, Welded Grating	18.38	1.21
			<i>For One Coat Of Shop Applied Paint (Red Or Black), Add</i>	0.22	
			<i>For Galvanized Steel, Add</i>	2.71	
			<i>For 304 Stainless Steel, Add</i>	51.26	
			<i>Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center</i>		
			<i>For Bearing Bars At 15/16" On-Center, Add</i>	4.66	
			<i>For Crossbars At 2" On-Center, Add</i>	1.72	
			<i>For Set In Place Without Bolting Or Tack Welding, Deduct</i>	-2.01	



	Metals	05	05
	Metal Fabrications	05 50	
	Metal Gratings	05 53	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 13 00-0005 SF 1" x 1/8" Steel, Welded Grating	16.71	1.21
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	2.43	
For 304 Stainless Steel, Add	45.90	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	4.18	
For Crossbars At 2" On-Center, Add	1.54	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-1.97	
05 53 13 00-0006 SF 1" x 3/16" Steel, Welded Grating	23.05	1.21
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	3.51	
For 304 Stainless Steel, Add	66.25	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	6.03	
For Crossbars At 2" On-Center, Add	2.23	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.13	
05 53 13 00-0007 SF 1" x 1/4" Steel, Welded Grating	29.40	1.21
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	4.59	
For 304 Stainless Steel, Add	86.64	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	7.88	
For Crossbars At 2" On-Center, Add	2.91	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.29	
05 53 13 00-0008 SF 1-1/4" x 1/8" Steel, Welded Grating	19.75	1.21
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	2.95	
For 304 Stainless Steel, Add	55.66	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	5.06	
For Crossbars At 2" On-Center, Add	1.87	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.05	
05 53 13 00-0009 SF 1-1/4" x 3/16" Steel, Welded Grating	27.46	1.21
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	4.26	
For 304 Stainless Steel, Add	80.41	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	7.31	
For Crossbars At 2" On-Center, Add	2.71	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.24	
05 53 13 00-0010 SF 1-1/2" x 1/8" Steel, Welded Grating	22.79	1.21
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	3.46	
For 304 Stainless Steel, Add	65.42	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	5.95	
For Crossbars At 2" On-Center, Add	2.20	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.12	
05 53 13 00-0011 SF 1-1/2" x 3/16" Steel, Welded Grating	32.66	1.49
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	5.05	
For 304 Stainless Steel, Add	95.30	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	8.67	
For Crossbars At 2" On-Center, Add	3.21	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.73	
05 53 13 00-0012 SF 1-1/2" x 1/4" Steel, Welded Grating	42.32	1.49
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	6.69	
For 304 Stainless Steel, Add	126.31	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	11.49	
For Crossbars At 2" On-Center, Add	4.25	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.97	
05 53 13 00-0013 SF 1-3/4" x 3/16" Steel, Welded Grating	37.37	1.49
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	5.85	
For 304 Stainless Steel, Add	110.42	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	10.04	
For Crossbars At 2" On-Center, Add	3.72	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.85	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 13 00-0014 SF 2" x 3/16" Steel, Welded Grating.....	41.78	1.49
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	6.60	
For 304 Stainless Steel, Add	124.58	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	11.33	
For Crossbars At 2" On-Center, Add	4.19	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.96	
05 53 13 00-0015 SF 2-1/4" x 3/16" Steel, Welded Grating	46.46	1.49
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	7.39	
For 304 Stainless Steel, Add	139.60	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	12.70	
For Crossbars At 2" On-Center, Add	4.70	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-3.08	
05 53 13 00-0016 SF 2-1/2" x 3/16" Steel, Welded Grating	50.87	1.49
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	8.14	
For 304 Stainless Steel, Add	153.76	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	13.99	
For Crossbars At 2" On-Center, Add	5.17	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-3.19	
05 53 13 00-0017 Pressure Locked Grating <small>(05 53 13)</small>		
Note: Sizes are for height and width of bearing bars. Pressure locked grating is an open grid grating which is an assembly of tight-fitting, slotted bearing bars and cross bars, interlocked together. The permanent locking of the bars is accomplished by slotting the bearing bars with a wider 'dovetail' shape at the bottom of the slot. The bearing bar slot is usually 1/2 the depth of the cross bar. The cross bars are slotted to a depth slightly less than half its depth. When the bars are pressed together under hydraulic pressure, the cross bar material is forced into the 'dovetail' shape of the bearing bar notch, forming a strong, rigid unit.		
05 53 13 00-0018 Steel, Pressure Locked Grating <small>(05 53 13 00-0017)</small>		
Note: Bearing bars at 1-3/16" on-center, crossbars at 4" on-center, bolted or tack welded, unpainted steel, and in all sizes.		
05 53 13 00-0019 SF 3/4" x 1/8" Steel, Pressure Locked Grating.....	25.96	1.21
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	3.86	
For 304 Stainless Steel, Add	44.06	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	6.88	
For Crossbars At 2" On-Center, Add	2.54	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.20	
05 53 13 00-0020 SF 3/4" x 3/16" Steel, Pressure Locked Grating.....	31.97	1.21
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	4.85	
For 304 Stainless Steel, Add	55.31	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	8.63	
For Crossbars At 2" On-Center, Add	3.19	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.35	
05 53 13 00-0021 SF 1" x 1/8" Steel, Pressure Locked Grating.....	28.53	1.21
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	4.28	
For 304 Stainless Steel, Add	48.87	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	7.63	
For Crossbars At 2" On-Center, Add	2.82	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.27	
05 53 13 00-0022 SF 1" x 3/16" Steel, Pressure Locked Grating.....	38.85	1.21
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	5.98	
For 304 Stainless Steel, Add	68.18	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 7/16" On-Center, Add	52.84	
For Bearing Bars At 15/16" On-Center, Add	10.64	
For Crossbars At 2" On-Center, Add	3.94	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.53	
05 53 13 00-0023 SF 1-1/4" x 1/8" Steel, Pressure Locked Grating.....	31.97	1.21
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	4.85	
For 304 Stainless Steel, Add	55.31	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	8.63	
For Crossbars At 2" On-Center, Add	3.19	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.35	



	Metals	05	
	Metal Fabrications	05 50	05
	Metal Gratings	05 53	

MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
05 53 13 00-0024	SF	1-1/4" x 3/16" Steel, Pressure Locked Grating.....	43.63	1.21
		For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
		For Galvanized Steel, Add	6.76	
		For 304 Stainless Steel, Add	77.12	
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
		For Bearing Bars At 15/16" On-Center, Add	12.04	
		For Crossbars At 2" On-Center, Add	4.45	
		For Serrated Wear Surface, Add	0.16	
		For Set In Place Without Bolting Or Tack Welding, Deduct	-2.65	
05 53 13 00-0025	SF	1-1/2" x 1/8" Steel, Pressure Locked Grating.....	35.58	1.21
		For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
		For Galvanized Steel, Add	5.44	
		For 304 Stainless Steel, Add	62.06	
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
		For Bearing Bars At 15/16" On-Center, Add	9.69	
		For Crossbars At 2" On-Center, Add	3.58	
		For Serrated Wear Surface, Add	0.16	
		For Set In Place Without Bolting Or Tack Welding, Deduct	-2.44	
05 53 13 00-0026	SF	1-1/2" x 3/16" Steel, Pressure Locked Grating.....	49.20	1.49
		For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
		For Galvanized Steel, Add	7.58	
		For 304 Stainless Steel, Add	86.50	
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
		For Bearing Bars At 7/16" On-Center, Add	67.03	
		For Bearing Bars At 15/16" On-Center, Add	13.50	
		For Crossbars At 2" On-Center, Add	4.99	
		For Serrated Wear Surface, Add	0.16	
		For Set In Place Without Bolting Or Tack Welding, Deduct	-3.15	
05 53 13 00-0027	SF	1-3/4" x 3/16" Steel, Pressure Locked Grating.....	54.24	1.49
		For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
		For Galvanized Steel, Add	8.41	
		For 304 Stainless Steel, Add	95.93	
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
		For Bearing Bars At 15/16" On-Center, Add	14.97	
		For Crossbars At 2" On-Center, Add	5.54	
		For Serrated Wear Surface, Add	0.16	
		For Set In Place Without Bolting Or Tack Welding, Deduct	-3.27	
05 53 13 00-0028	SF	2" x 3/16" Steel, Pressure Locked Grating.....	58.35	1.49
		For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
		For Galvanized Steel, Add	9.08	
		For 304 Stainless Steel, Add	103.62	
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
		For Bearing Bars At 15/16" On-Center, Add	16.17	
		For Crossbars At 2" On-Center, Add	5.98	
		For Serrated Wear Surface, Add	0.16	
		For Set In Place Without Bolting Or Tack Welding, Deduct	-3.37	
05 53 13 00-0029	SF	2-1/4" x 3/16" Steel, Pressure Locked Grating.....	62.29	1.49
		For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
		For Galvanized Steel, Add	9.73	
		For 304 Stainless Steel, Add	110.99	
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
		For Bearing Bars At 15/16" On-Center, Add	17.32	
		For Crossbars At 2" On-Center, Add	6.41	
		For Serrated Wear Surface, Add	0.16	
		For Set In Place Without Bolting Or Tack Welding, Deduct	-3.47	
05 53 13 00-0030	SF	2-1/2" x 3/16" Steel, Pressure Locked Grating.....	65.70	1.49
		For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
		For Galvanized Steel, Add	10.29	
		For 304 Stainless Steel, Add	117.37	
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
		For Bearing Bars At 15/16" On-Center, Add	18.32	
		For Crossbars At 2" On-Center, Add	6.77	
		For Serrated Wear Surface, Add	0.16	
		For Set In Place Without Bolting Or Tack Welding, Deduct	-3.56	
05 53 13 00-0031		Aluminum, Type 6063, Pressure Locked Grating (05 53 13 00-0017)		
		Note: Bearing bars at 1-3/16" on-center, crossbars at 4" on-center, bolted in place, and in all sizes.		
05 53 13 00-0032	SF	3/4" x 1/8" Aluminum, Pressure Locked Grating.....	17.11	1.21
		For Bearing Bars At 15/16" On-Center, Add	4.29	
		For Crossbars At 2" On-Center, Add	1.59	
		For Set In Place Without Bolting, Deduct	-1.98	
		For Powder Coating, Add	2.21	
05 53 13 00-0033	SF	3/4" x 3/16" Aluminum, Pressure Locked Grating.....	23.14	1.21
		For Bearing Bars At 15/16" On-Center, Add	6.05	
		For Crossbars At 2" On-Center, Add	2.24	
		For Set In Place Without Bolting, Deduct	-2.13	
		For Powder Coating, Add	3.11	
05 53 13 00-0034	SF	1" x 1/8" Aluminum, Pressure Locked Grating.....	21.84	1.21
		For Bearing Bars At 15/16" On-Center, Add	5.67	
		For Crossbars At 2" On-Center, Add	2.10	
		For Serrated Wear Surface, Add	0.16	
		For Set In Place Without Bolting, Deduct	-2.10	
		For Powder Coating, Add	2.91	

05	05	Metals
	05 50	Metal Fabrications
	05 53	Metal Gratings



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 13 00-0035 SF 1" x 3/16" Aluminum, Pressure Locked Grating	29.63	1.21
For Bearing Bars At 7/16" On-Center, Add	39.47	
For Bearing Bars At 15/16" On-Center, Add	7.95	
For Crossbars At 2" On-Center, Add	2.94	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.30	
For Powder Coating, Add	4.08	
05 53 13 00-0036 SF 1-1/4" x 1/8" Aluminum, Pressure Locked Grating	25.27	1.21
For Bearing Bars At 15/16" On-Center, Add	6.68	
For Crossbars At 2" On-Center, Add	2.47	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.19	
For Powder Coating, Add	3.43	
05 53 13 00-0037 SF 1-1/4" x 3/16" Aluminum, Pressure Locked Grating	33.76	1.21
For Bearing Bars At 15/16" On-Center, Add	9.15	
For Crossbars At 2" On-Center, Add	3.39	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.40	
For Powder Coating, Add	4.70	
05 53 13 00-0038 SF 1-1/2" x 1/8" Aluminum, Pressure Locked Grating	28.49	1.21
For Bearing Bars At 15/16" On-Center, Add	7.62	
For Crossbars At 2" On-Center, Add	2.82	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.27	
For Powder Coating, Add	3.91	
05 53 13 00-0039 SF 1-1/2" x 3/16" Aluminum, Pressure Locked Grating	38.02	1.21
For Bearing Bars At 7/16" On-Center, Add	51.63	
For Bearing Bars At 15/16" On-Center, Add	10.40	
For Crossbars At 2" On-Center, Add	3.85	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.50	
For Powder Coating, Add	5.34	
05 53 13 00-0040 SF 1-3/4" x 3/16" Aluminum, Pressure Locked Grating	42.10	1.21
For Bearing Bars At 15/16" On-Center, Add	11.59	
For Crossbars At 2" On-Center, Add	4.29	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.61	
For Powder Coating, Add	5.95	
05 53 13 00-0041 SF 2" x 3/16" Aluminum, Pressure Locked Grating	46.93	1.21
For Bearing Bars At 15/16" On-Center, Add	13.00	
For Crossbars At 2" On-Center, Add	4.81	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.73	
For Powder Coating, Add	6.68	
05 53 13 00-0042 SF 2-1/4" x 3/16" Aluminum, Pressure Locked Grating	50.72	1.21
For Bearing Bars At 15/16" On-Center, Add	14.11	
For Crossbars At 2" On-Center, Add	5.22	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.82	
For Powder Coating, Add	7.25	
05 53 13 00-0043 SF 2-1/2" x 3/16" Aluminum, Pressure Locked Grating	55.24	1.21
For Bearing Bars At 15/16" On-Center, Add	15.43	
For Crossbars At 2" On-Center, Add	5.71	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.94	
For Powder Coating, Add	7.92	
05 53 13 00-0044 Swage Locked Grating <small>(05 53 13)</small>		
Note: Sizes are for height and width of bearing bars. Swage locked grating is an open grid grating where bearing bars are pre-punched to receive a cross bar without penetrating or cutting the top surface of the bearing bar. The cross bar is then inserted through the pre-punched hole and deformed by swaging or squeezing under hydraulic pressure to permanently lock the bars in place.		
05 53 13 00-0045 Steel, Swage Locked Grating <small>(05 53 13 00-0044)</small>		
Note: Bearing bars at 1-3/16" on-center, crossbars at 4" on-center, bolted or tack welded, unpainted steel, and in all sizes.		
05 53 13 00-0046 SF 1" x 3/16" Steel, Swaged Grating	42.53	1.21
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	3.69	
For 304 Stainless Steel, Add	66.52	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	25.68	
For Crossbars At 2" On-Center, Add	3.21	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.62	
05 53 13 00-0047 SF 1-1/4" x 3/16" Steel, Swaged Grating	47.47	1.21
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	4.15	
For 304 Stainless Steel, Add	74.71	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	28.84	
For Crossbars At 2" On-Center, Add	3.60	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.74	



Metals	05	05
Metal Fabrications	05 50	
Metal Gratings	05 53	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 13 00-0048 SF 1-1/2" x 3/16" Steel, Swaged Grating	51.90	1.49
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	4.50	
For 304 Stainless Steel, Add	81.13	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	31.32	
For Crossbars At 2" On-Center, Add	3.91	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-3.21	
05 53 13 00-0049 SF 1-3/4" x 3/16" Steel, Swaged Grating	59.49	1.49
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	5.20	
For 304 Stainless Steel, Add	93.71	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	36.17	
For Crossbars At 2" On-Center, Add	4.52	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-3.40	
05 53 13 00-0050 SF 2" x 3/16" Steel, Swaged Grating	67.10	1.49
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	5.90	
For 304 Stainless Steel, Add	106.33	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	41.04	
For Crossbars At 2" On-Center, Add	5.13	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-3.59	
05 53 13 00-0051 SF 2-1/4" x 3/16" Steel, Swaged Grating	74.69	1.49
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	6.60	
For 304 Stainless Steel, Add	118.91	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	45.90	
For Crossbars At 2" On-Center, Add	5.74	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-3.78	
05 53 13 00-0052 SF 2-1/2" x 3/16" Steel, Swaged Grating	82.30	1.49
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	7.30	
For 304 Stainless Steel, Add	131.53	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	50.77	
For Crossbars At 2" On-Center, Add	6.35	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-3.97	
05 53 13 00-0053 Aluminum Grating, Type 6063, Swage Locked <small>(05 53 13 00-0044)</small>		
Note: Bearing bars at 1-3/16" on-center, crossbars at 4" on-center, bolted in place, and in all sizes.		
05 53 13 00-0054 SF 1" x 1/8" Aluminum, Swaged Grating	20.18	1.21
For Bearing Bars At 15/16" On-Center, Add	11.37	
For Crossbars At 2" On-Center, Add	1.42	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.06	
For Powder Coating, Add	2.67	
05 53 13 00-0055 SF 1" x 3/16" Aluminum, Swaged Grating	26.13	1.21
For Bearing Bars At 15/16" On-Center, Add	15.18	
For Crossbars At 2" On-Center, Add	1.90	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.21	
For Powder Coating, Add	3.56	
05 53 13 00-0056 SF 1-1/4" x 1/8" Aluminum, Swaged Grating	22.85	1.21
For Bearing Bars At 15/16" On-Center, Add	13.08	
For Crossbars At 2" On-Center, Add	1.64	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.13	
For Powder Coating, Add	3.07	
05 53 13 00-0057 SF 1-1/4" x 3/16" Aluminum, Swaged Grating	30.13	1.21
For Bearing Bars At 15/16" On-Center, Add	17.74	
For Crossbars At 2" On-Center, Add	2.22	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.31	
For Powder Coating, Add	4.16	
05 53 13 00-0058 SF 1-1/2" x 1/8" Aluminum, Swaged Grating	26.02	1.21
For Bearing Bars At 15/16" On-Center, Add	15.11	
For Crossbars At 2" On-Center, Add	1.89	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.20	
For Powder Coating, Add	3.54	
05 53 13 00-0059 SF 1-1/2" x 3/16" Aluminum, Swaged Grating	34.41	1.21
For Bearing Bars At 15/16" On-Center, Add	20.48	
For Crossbars At 2" On-Center, Add	2.56	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting, Deduct	-2.41	
For Powder Coating, Add	4.80	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 13 00-0060	SF		1-3/4" x 3/16" Aluminum, Swaged Grating.....	39.35	1.21
			<i>For Bearing Bars At 15/16" On-Center, Add</i>	23.64	
			<i>For Crossbars At 2" On-Center, Add</i>	2.96	
			<i>For Serrated Wear Surface, Add</i>	0.16	
			<i>For Set In Place Without Bolting, Deduct</i>	-2.54	
			<i>For Powder Coating, Add</i>	5.54	
05 53 13 00-0061	SF		2" x 3/16" Aluminum, Swaged Grating.....	44.26	1.21
			<i>For Bearing Bars At 15/16" On-Center, Add</i>	26.78	
			<i>For Crossbars At 2" On-Center, Add</i>	3.35	
			<i>For Serrated Wear Surface, Add</i>	0.16	
			<i>For Set In Place Without Bolting, Deduct</i>	-2.66	
			<i>For Powder Coating, Add</i>	6.28	
05 53 13 00-0062	SF		2-1/4" x 3/16" Aluminum, Swaged Grating.....	49.19	1.21
			<i>For Bearing Bars At 15/16" On-Center, Add</i>	29.94	
			<i>For Crossbars At 2" On-Center, Add</i>	3.74	
			<i>For Serrated Wear Surface, Add</i>	0.16	
			<i>For Set In Place Without Bolting, Deduct</i>	-2.78	
			<i>For Powder Coating, Add</i>	7.02	
05 53 13 00-0063	SF		2-1/2" x 3/16" Aluminum, Swaged Grating.....	54.10	1.21
			<i>For Bearing Bars At 15/16" On-Center, Add</i>	33.08	
			<i>For Crossbars At 2" On-Center, Add</i>	4.14	
			<i>For Serrated Wear Surface, Add</i>	0.16	
			<i>For Set In Place Without Bolting, Deduct</i>	-2.91	
			<i>For Powder Coating, Add</i>	7.75	
05 53 13 00-0064			Riveted Grating <small>(05 53 13)</small>		
			Note: Riveted grating is an open grid grating where bearing bars are pre-punched to receive a solid round rivet. Crimp/lacing bars are pre-punched as well and then formed into a reticulated shape. Bearing bars and crimp bars are then assembled and clamped in place by rivets which are cold driven under hydraulic pressure to permanently lock the assembly together.		
05 53 13 00-0065			Steel, Riveted Grating <small>(05 53 13 00-0064)</small>		
			Note: 1" clear opening, bolted or tack welded in place, unpainted steel, all sizes.		
05 53 13 00-0066	SF		3/4" x 1/8", 7.0 LB/SF, Steel, Riveted Grating.....	80.87	1.21
			<i>For One Coat Of Shop Applied Paint (Red Or Black), Add</i>	0.22	
			<i>For Galvanized Steel, Add</i>	3.77	
			<i>For 304 Stainless Steel, Add</i>	67.40	
			<i>For 5/8" Clear Opening, Add</i>	27.07	
			<i>For Set In Place Without Bolting Or Tack Welding, Deduct</i>	-3.58	
05 53 13 00-0067	SF		3/4" x 3/16", 8.5 LB/SF, Steel, Riveted Grating.....	95.24	1.21
			<i>For One Coat Of Shop Applied Paint (Red Or Black), Add</i>	0.22	
			<i>For Galvanized Steel, Add</i>	4.46	
			<i>For 304 Stainless Steel, Add</i>	79.74	
			<i>For 5/8" Clear Opening, Add</i>	32.03	
			<i>For Set In Place Without Bolting Or Tack Welding, Deduct</i>	-3.94	
05 53 13 00-0068	SF		1" x 1/8", 8.0 LB/SF, Steel, Riveted Grating.....	87.49	1.21
			<i>For One Coat Of Shop Applied Paint (Red Or Black), Add</i>	0.22	
			<i>For Galvanized Steel, Add</i>	4.08	
			<i>For 304 Stainless Steel, Add</i>	73.08	
			<i>For 5/8" Clear Opening, Add</i>	29.35	
			<i>For Serrated Wear Surface, Add</i>	0.16	
			<i>For Set In Place Without Bolting Or Tack Welding, Deduct</i>	-3.74	
05 53 13 00-0069	SF		1" x 3/16", 9.5 LB/SF, Steel, Riveted Grating.....	100.71	1.21
			<i>For One Coat Of Shop Applied Paint (Red Or Black), Add</i>	0.22	
			<i>For Galvanized Steel, Add</i>	4.72	
			<i>For 304 Stainless Steel, Add</i>	84.44	
			<i>For 5/8" Clear Opening, Add</i>	33.91	
			<i>For Serrated Wear Surface, Add</i>	0.16	
			<i>For Set In Place Without Bolting Or Tack Welding, Deduct</i>	-4.07	
05 53 13 00-0070	SF		1-1/4" x 1/8", 9.0 LB/SF, Steel, Riveted Grating.....	92.96	1.21
			<i>For One Coat Of Shop Applied Paint (Red Or Black), Add</i>	0.22	
			<i>For Galvanized Steel, Add</i>	4.35	
			<i>For 304 Stainless Steel, Add</i>	77.78	
			<i>For 5/8" Clear Opening, Add</i>	31.24	
			<i>For Serrated Wear Surface, Add</i>	0.16	
			<i>For Set In Place Without Bolting Or Tack Welding, Deduct</i>	-3.88	
05 53 13 00-0071	SF		1-1/4" x 3/16", 11.1 LB/SF, Steel, Riveted Grating.....	110.90	1.21
			<i>For One Coat Of Shop Applied Paint (Red Or Black), Add</i>	0.22	
			<i>For Galvanized Steel, Add</i>	5.21	
			<i>For 304 Stainless Steel, Add</i>	93.19	
			<i>For 5/8" Clear Opening, Add</i>	37.43	
			<i>For Serrated Wear Surface, Add</i>	0.16	
			<i>For Set In Place Without Bolting Or Tack Welding, Deduct</i>	-4.33	
05 53 13 00-0072	SF		1-1/2" x 1/8", 10.1 LB/SF, Steel, Riveted Grating.....	98.80	1.49
			<i>For One Coat Of Shop Applied Paint (Red Or Black), Add</i>	0.22	
			<i>For Galvanized Steel, Add</i>	4.60	
			<i>For 304 Stainless Steel, Add</i>	82.32	
			<i>For 5/8" Clear Opening, Add</i>	33.06	
			<i>For Serrated Wear Surface, Add</i>	0.16	
			<i>For Set In Place Without Bolting Or Tack Welding, Deduct</i>	-4.39	



Metals	05	05
Metal Fabrications	05 50	
Metal Gratings	05 53	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 13 00-0073 SF 1-1/2" x 3/16", 12.5 LB/SF, Steel, Riveted Grating	117.98	1.49
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	5.52	
For 304 Stainless Steel, Add	98.79	
For 5/8" Clear Opening, Add	39.68	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-4.87	
05 53 13 00-0074 SF 1-3/4" x 3/16", 14.0 LB/SF, Steel, Riveted Grating	127.76	1.49
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	5.99	
For 304 Stainless Steel, Add	107.19	
For 5/8" Clear Opening, Add	43.05	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-5.11	
05 53 13 00-0075 SF 2" x 3/16", 17.0 LB/SF, Steel, Riveted Grating	149.61	1.49
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	7.04	
For 304 Stainless Steel, Add	125.96	
For 5/8" Clear Opening, Add	50.59	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-5.66	
05 53 13 00-0076 SF 2-1/4" x 3/16", 18.5 LB/SF, Steel, Riveted Grating	157.22	1.49
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	7.40	
For 304 Stainless Steel, Add	132.50	
For 5/8" Clear Opening, Add	53.22	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-5.85	
05 53 13 00-0077 SF 2-1/2" x 3/16", 20.0 LB/SF, Steel, Riveted Grating	164.00	1.49
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	7.73	
For 304 Stainless Steel, Add	138.32	
For 5/8" Clear Opening, Add	55.56	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-6.02	
05 53 13 00-0078 Aluminum, Riveted Grating <small>(05 53 13 00-0064)</small>		
Note: 1" clear opening, bolted in place and in all sizes.		
05 53 13 00-0079 SF 3/4" x 1/8", 2.4 LB/SF, Aluminum, Riveted Grating	42.98	1.21
For 5/8" Clear Opening, Add	14.00	
For Powder Coating, Add	6.09	
For Set In Place Without Bolting, Deduct	-2.63	
05 53 13 00-0080 SF 3/4" x 3/16", 2.9 LB/SF, Aluminum, Riveted Grating	51.01	1.21
For 5/8" Clear Opening, Add	16.77	
For Powder Coating, Add	7.29	
For Set In Place Without Bolting, Deduct	-2.83	
05 53 13 00-0081 SF 1" x 1/8", 2.7 LB/SF, Aluminum, Riveted Grating	47.27	1.21
For 5/8" Clear Opening, Add	15.48	
For Serrated Wear Surface, Add	0.16	
For Powder Coating, Add	6.73	
For Set In Place Without Bolting, Deduct	-2.74	
05 53 13 00-0082 SF 1" x 3/16", 3.2 LB/SF, Aluminum, Riveted Grating	55.11	1.21
For 5/8" Clear Opening, Add	18.18	
For Serrated Wear Surface, Add	0.16	
For Powder Coating, Add	7.91	
For Set In Place Without Bolting, Deduct	-2.93	
05 53 13 00-0083 SF 1-1/4" x 1/8", 3.1 LB/SF, Aluminum, Riveted Grating	53.01	1.21
For 5/8" Clear Opening, Add	17.46	
For Serrated Wear Surface, Add	0.16	
For Powder Coating, Add	7.59	
For Set In Place Without Bolting, Deduct	-2.88	
05 53 13 00-0084 SF 1-1/4" x 3/16", 3.8 LB/SF, Aluminum, Riveted Grating	63.89	1.21
For 5/8" Clear Opening, Add	21.21	
For Serrated Wear Surface, Add	0.16	
For Powder Coating, Add	9.22	
For Set In Place Without Bolting, Deduct	-3.15	
05 53 13 00-0085 SF 1-1/2" x 1/8", 3.4 LB/SF, Aluminum, Riveted Grating	56.93	1.21
For 5/8" Clear Opening, Add	18.81	
For Serrated Wear Surface, Add	0.16	
For Powder Coating, Add	8.18	
For Set In Place Without Bolting, Deduct	-2.98	
05 53 13 00-0086 SF 1-1/2" x 3/16", 4.3 LB/SF, Aluminum, Riveted Grating	70.75	1.21
For 5/8" Clear Opening, Add	23.58	
For Serrated Wear Surface, Add	0.16	
For Powder Coating, Add	10.25	
For Set In Place Without Bolting, Deduct	-3.32	
05 53 13 00-0087 SF 1-3/4" x 3/16", 4.8 LB/SF, Aluminum, Riveted Grating	78.00	1.21
For 5/8" Clear Opening, Add	26.08	
For Serrated Wear Surface, Add	0.16	
For Powder Coating, Add	11.34	
For Set In Place Without Bolting, Deduct	-3.50	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 13 00-0088 SF 2" x 3/16", 5.8 LB/SF, Aluminum, Riveted Grating.....	92.88	1.21
For 5/8" Clear Opening, Add	31.21	
For Serrated Wear Surface, Add	0.16	
For Powder Coating, Add	13.57	
For Set In Place Without Bolting, Deduct	-3.88	
05 53 13 00-0089 SF 2-1/4" x 3/16", 6.4 LB/SF, Aluminum, Riveted Grating.....	101.33	1.21
For 5/8" Clear Opening, Add	34.13	
For Serrated Wear Surface, Add	0.16	
For Powder Coating, Add	14.84	
For Set In Place Without Bolting, Deduct	-4.09	
05 53 13 00-0090 SF 2-1/2" x 3/16", 7.2 LB/SF, Aluminum, Riveted Grating.....	112.65	1.21
For 5/8" Clear Opening, Add	38.03	
For Serrated Wear Surface, Add	0.16	
For Powder Coating, Add	16.54	
For Set In Place Without Bolting, Deduct	-4.37	
05 54 Metal Floor Plates <small>(05 50)</small>		
05 54 00 00-0001 Steel Floor Plates <small>(05 54)</small>		
05 54 00 00-0002 SF 16 Gauge Steel Raised Or Diamond Pattern Floor Plates.....	20.86	1.42
05 54 00 00-0003 SF 14 Gauge Steel Raised Or Diamond Pattern Floor Plates.....	23.91	1.42
05 54 00 00-0004 SF 12 Gauge Steel Raised Or Diamond Pattern Floor Plates.....	30.07	1.42
05 54 00 00-0005 SF 1/8" Steel Raised Or Diamond Pattern Floor Plates.....	40.30	1.54
05 54 00 00-0006 SF 1/4" Steel Raised Or Diamond Pattern Floor Plates.....	51.34	1.65
05 54 00 00-0007 Aluminum Alloy Floor Plates <small>(05 54)</small>		
05 54 00 00-0008 SF 0.125" Aluminum Alloy Raised Or Diamond Pattern Floor Plate.....	29.99	1.21
For Powder Coating, Add	4.14	
05 54 00 00-0009 SF 0.188" Aluminum Alloy Raised Or Diamond Pattern Floor Plate.....	34.41	1.42
For Powder Coating, Add	4.75	
05 54 00 00-0010 SF 0.25" Aluminum Alloy Raised Or Diamond Pattern Floor Plate.....	38.85	1.54
For Powder Coating, Add	5.37	
05 54 00 00-0011 Type 304 Stainless Steel Floor Plates <small>(05 54)</small>		
05 54 00 00-0012 SF 1/8" Type 304 Stainless Steel Raised Or Diamond Pattern Floor Plate.....	39.20	1.65
05 54 00 00-0013 SF 3/16" Type 304 Stainless Steel Raised Or Diamond Pattern Floor Plate.....	46.87	1.87
05 54 00 00-0014 SF 1/4" Type 304 Stainless Raised Or Diamond Pattern Steel Floor Plate.....	60.74	2.20
05 55 Metal Stair Treads and Nosings <small>(05 50)</small>		
05 55 13 Metal Stair Treads <small>(05 55)</small>		
05 55 13 00-0001 Abrasive Cast Aluminum Stair Treads <small>(05 55 13)</small>		
Note: Includes abrasive diamond pattern surface and anchors. Excludes stringers.		
05 55 13 00-0002 LF 8" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Stair Tread.....	72.52	6.98
For 3/8" Thick, Add	15.34	
05 55 13 00-0003 LF 9" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Stair Tread.....	79.85	6.98
For 3/8" Thick, Add	17.17	
05 55 13 00-0004 LF 10" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Stair Tread.....	87.16	6.98
For 3/8" Thick, Add	19.00	
05 55 13 00-0005 LF 11" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Stair Tread.....	94.52	6.98
For 3/8" Thick, Add	20.84	
05 55 13 00-0006 LF 12" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Stair Tread.....	101.80	6.98
For 3/8" Thick, Add	22.66	
05 55 13 00-0007 Abrasive Cast Iron Stair Treads <small>(05 55 13)</small>		
Note: Includes abrasive diamond pattern surface and anchors. Excludes stringers.		
05 55 13 00-0008 LF 8" Depth, 3/8" Thick, 1/4" Lip, Abrasive Cast Iron Stair Tread.....	100.95	6.98
05 55 13 00-0009 LF 9" Depth, 3/8" Thick, 1/4" Lip, Abrasive Cast Iron Stair Tread.....	111.81	6.98
05 55 13 00-0010 LF 10" Depth, 3/8" Thick, 1/4" Lip, Abrasive Cast Iron Stair Tread.....	122.69	6.98
05 55 13 00-0011 LF 11" Depth, 3/8" Thick, 1/4" Lip, Abrasive Cast Iron Stair Tread.....	133.56	6.98
05 55 13 00-0012 LF 12" Depth, 3/8" Thick, 1/4" Lip, Abrasive Cast Iron Stair Tread.....	144.44	6.98
05 55 13 00-0013 Aluminum/Ceramic Grit Coating, Extruded Aluminum Safety Stair Treads <small>(05 55 13)</small>		
Note: Includes extruded aluminum base with diamond hard aluminum oxide abrasive filler/surface. Includes anchors. Excludes stringers.		
05 55 13 00-0014 LF 6-1/2" Depth, 5/32" Thick, 1-1/16" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Safety Stair Tread.....	38.23	6.98
05 55 13 00-0015 LF 9" Depth, 5/32" Thick, 1-1/16" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Safety Stair Tread.....	44.87	6.98
05 55 13 00-0016 LF 11" Depth, 5/32" Thick, 1-1/16" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Safety Stair Tread.....	47.80	6.98
05 55 13 00-0017 Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Treads <small>(05 55 13)</small>		
Note: Includes extruded aluminum base with diamond hard aluminum oxide abrasive filler/surface. Includes anchors. Excludes stringers.		



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 55 13 00-0018 LF 8" Depth, 9/32" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Tread..... <i>For Epoxy Sealed For Corrosive Environment, Add</i> <i>For Two Color Tread, Add</i>	56.56 4.61 3.46	6.98
05 55 13 00-0019 LF 9" Depth, 9/32" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Tread..... <i>For Epoxy Sealed For Corrosive Environment, Add</i> <i>For Two Color Tread, Add</i>	57.11 4.61 3.46	6.98
05 55 13 00-0020 LF 11" Depth, 9/32" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Tread..... <i>For Epoxy Sealed For Corrosive Environment, Add</i> <i>For Two Color Tread, Add</i>	69.06 4.61 3.46	6.98
05 55 13 00-0021 LF 12" Depth, 9/32" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Tread..... <i>For Epoxy Sealed For Corrosive Environment, Add</i> <i>For Two Color Tread, Add</i>	79.53 4.61 3.46	6.98
05 55 13 00-0022 LF 15" Depth, 9/32" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Tread..... <i>For Epoxy Sealed For Corrosive Environment, Add</i> <i>For Two Color Tread, Add</i>	93.18 4.61 3.46	6.98
05 55 13 00-0023 Stair Landing Treads (05 55 13)		
05 55 13 00-0024 Abrasive Cast Aluminum Stair Landing Treads (05 55 13 00-0023) Note: Includes abrasive diamond pattern surface and anchors.		
05 55 13 00-0025 SF 5/16" Thick, Abrasive Cast Aluminum Landing Treads..... <i>For 3/8" Thick, Add</i>	101.80 22.66	6.98
05 55 13 00-0026 Abrasive Cast Iron Stair Landing Treads (05 55 13 00-0023) Note: Includes abrasive diamond pattern surface and anchors.		
05 55 13 00-0027 SF 3/8" Thick, Abrasive Cast Iron Landing Treads.....	144.44	6.98
05 55 13 00-0028 Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Landing Treads (05 55 13 00-0023) Note: Includes extruded aluminum base with diamond hard aluminum oxide abrasive filler/surface. Includes anchors.		
05 55 13 00-0029 SF 9/32" Thick, Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Landing Treads..... <i>For Epoxy Sealed For Corrosive Environment, Add</i>	94.38 4.61	6.98
05 55 13 00-0030 Open Cast Iron Stair Tread (05 55 13) Note: Includes steel stringers, safety nosing and 2 pipe handrail. Excludes landings.		
05 55 13 00-0031 RSR 3'-6" Wide, Open Cast Iron Stair Tread..... <i>For Closed Riser, Add</i>	731.32 62.69	43.95
05 55 13 00-0032 RSR 4'-0" Wide, Open Cast Iron Stair Tread..... <i>For Closed Riser, Add</i>	819.59 70.09	50.55
05 55 13 00-0033 RSR 5'-0" Wide, Open Cast Iron Stair Tread..... <i>For Closed Riser, Add</i>	902.49 77.09	59.33
05 55 16 Metal Stair Nosings (05 55)		
05 55 16 00-0001 Abrasive Cast Aluminum Nosings (05 55 16) Note: Includes abrasive diamond pattern surface and anchors.		
05 55 16 00-0002 LF 3" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Nosing..... <i>For 3/8" Thick, Add</i>	30.60 5.75	4.77
05 55 16 00-0003 LF 4" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Nosing..... <i>For 3/8" Thick, Add</i>	37.68 7.52	4.77
05 55 16 00-0004 LF 6" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Nosing..... <i>For 3/8" Thick, Add</i>	53.45 11.46	4.77
05 55 16 00-0005 Abrasive Cast Iron Nosings (05 55 16) Note: Includes abrasive diamond pattern surface and anchors.		
05 55 16 00-0006 LF 3" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Iron Nosing..... <i>For 3/8" Thick, Add</i>	35.76 7.04	4.77
05 55 16 00-0007 LF 4" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Iron Nosing..... <i>For 3/8" Thick, Add</i>	44.48 9.22	4.77
05 55 16 00-0008 LF 6" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Iron Nosing..... <i>For 3/8" Thick, Add</i>	61.70 13.52	4.77
05 55 16 00-0009 Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosings (05 55 16) Note: Includes extruded aluminum base with diamond hard aluminum oxide abrasive filler/surface. Includes anchors.		
05 55 16 00-0010 LF 1-7/8" Depth, 1/4" Thick, 1/4" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing.....	25.80	4.77
05 55 16 00-0011 LF 3" Depth, 1/4" Thick, 1/4" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing.....	29.21	4.77
05 55 16 00-0012 LF 4" Depth, 1/4" Thick, 1/4" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing.....	31.82	4.77
05 55 16 00-0013 LF 6" Depth, 1/4" Thick, 1/4" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing.....	39.91	4.77
05 55 16 00-0014 LF 1-7/8" Depth, 1/4" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing.....	26.72	4.77
05 55 16 00-0015 LF 3" Depth, 1/4" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing.....	29.63	4.77
05 55 16 00-0016 LF 4" Depth, 1/4" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing.....	32.51	4.77
05 55 16 00-0017 LF 3" Depth, 1/4" Thick, 1-3/4" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing.....	30.76	4.77

05	05	Metals
	05 50	Metal Fabrications
	05 56	Metal Castings



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
------------------------------	---------------------------	-------------------------

05 56 Metal Castings (05 50)

05 56 00 00-0001 Castings <small>(05 56)</small>			
05 56 00 00-0002	LB Up To 150 LB, Miscellaneous Castings, Light Section.....	5.74	0.55
05 56 00 00-0003	LB >150 LB, Miscellaneous Castings, Heavy Section.....	9.88	0.44

05 58 Formed Metal Fabrications (05 50)

05 58 16 Formed Metal Enclosures (05 58)

05 58 16 00-0001 Drip Pan <small>(05 58 16)</small>			
05 58 16 00-0002	SF Stainless Steel Drip Pan	115.05	7.68
05 58 16 00-0003	SF Galvanized Steel Drip Pan.....	113.67	7.68
05 58 16 00-0004	SF Aluminum Drip Pan.....	79.95	6.14
05 58 16 00-0005	SF Plastic Drip Pan	21.58	5.38

05 58 23 Formed Metal Guards (05 58)

05 58 23 00-0001 Protective Guard Rails <small>(05 58 23)</small>			
Note: Includes painted finish.			
05 58 23 00-0002 2-Rib, 11 Gauge Steel, Protective Guard Rails <small>(05 58 23 00-0001)</small>			
Note: Steel King Armor Guard.			
05 58 23 00-0003 Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rails <small>(05 58 23 00-0002)</small>			
Note: Excludes posts. Includes fasteners.			
05 58 23 00-0004	EA 1' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail	209.04	22.87
05 58 23 00-0005	EA 2' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail	245.70	22.87
05 58 23 00-0006	EA 3' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail	280.28	22.87
05 58 23 00-0007	EA 4' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail	316.95	22.87
05 58 23 00-0008	EA 5' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail	351.73	22.87
05 58 23 00-0009	EA 6' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail	396.81	22.87
05 58 23 00-0010	EA 7' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail	427.53	22.87
05 58 23 00-0011	EA 8' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail	475.09	22.87
05 58 23 00-0012	EA 9' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail	506.30	22.87
05 58 23 00-0013	EA 10' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail	528.60	22.87

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

Note: Includes drilling, surface mounting plate and anchors.			
05 58 23 00-0015	EA 12" Height, Single Rail Post For 2-Rib Guard Rails	420.29	47.64
05 58 23 00-0016	EA 42" Height, Triple Rail Post For 2-Rib Guard Rails	547.62	47.64

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

Note: Steel King Steel Guard.

05 58 23 00-0018 Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rails (05 58 23 00-0017)

Note: Excludes posts. Includes fasteners.

05 58 23 00-0019	EA 1' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	231.13	22.87
05 58 23 00-0020	EA 2' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	255.51	22.87
05 58 23 00-0021	EA 3' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	285.93	22.87
05 58 23 00-0022	EA 4' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	314.37	22.87
05 58 23 00-0023	EA 5' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	347.27	22.87
05 58 23 00-0024	EA 6' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	363.12	22.87
05 58 23 00-0025	EA 7' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	401.27	22.87
05 58 23 00-0026	EA 8' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	433.47	22.87
05 58 23 00-0027	EA 9' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	467.66	22.87
05 58 23 00-0028	EA 10' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	502.34	22.87

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

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

05 58 23 00-0030	EA 1' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail.....	340.83	22.87
05 58 23 00-0031	EA 2' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail.....	367.58	22.87
05 58 23 00-0032	EA 3' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail.....	395.32	22.87
05 58 23 00-0033	EA 4' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail.....	427.53	22.87
05 58 23 00-0034	EA 5' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail.....	459.73	22.87
05 58 23 00-0035	EA 6' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail.....	485.99	22.87
05 58 23 00-0036	EA 7' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail.....	516.21	22.87
05 58 23 00-0037	EA 8' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail.....	550.40	22.87
05 58 23 00-0038	EA 9' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail.....	587.06	22.87
05 58 23 00-0039	EA 10' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail.....	619.27	22.87

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

Note: Includes drilling, surface mounting plate and anchors.

05 58 23 00-0041	EA 18" Height, Single Rail Post For 3-Rib Guard Rails	369.56	47.64
05 58 23 00-0042	EA 42" Height, Double Rail Post For 3-Rib Guard Rails	472.81	47.64



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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
------------------------------	---------------------------	-------------------------

05 58 23 00-0043	All-Welded, Protective Guards <small>(05 58 23)</small>	
	Note: Surface mounted inverted-U style protective barriers. Includes painted finish, drilling, surface mounting plate and anchors.	
05 58 23 00-0044	All-Welded, Protective Guards <small>(05 58 23 00-0043)</small>	
05 58 23 00-0045	EA 36" Length, 9" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard.....	482.27
05 58 23 00-0046	EA 48" Length, 9" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard.....	507.05
05 58 23 00-0047	EA 36" Length, 16" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard.....	521.41
05 58 23 00-0048	EA 48" Length, 16" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard.....	542.72
05 58 23 00-0049	EA 36" Length, 24" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard.....	537.76
05 58 23 00-0050	EA 48" Length, 24" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard.....	564.02
05 58 23 00-0051	EA 36" Length, 36" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard.....	571.45
05 58 23 00-0052	EA 48" Length, 36" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard.....	579.88
05 58 23 00-0053	EA 48" Length, 42" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard.....	620.01
05 58 23 00-0054	Corner Style, All-Welded, Protective Guards <small>(05 58 23 00-0043)</small>	
05 58 23 00-0055	EA 24" Length, 24" Height, 4-1/2" Diameter Steel Pipe, Corner Style, All-Welded, Protective Guard.....	635.86
05 58 23 00-0056	EA 30" Length, 24" Height, 4-1/2" Diameter Steel Pipe, Corner Style, All-Welded, Protective Guard.....	665.59
05 58 23 00-0057	EA 24" Length, 36" Height, 4-1/2" Diameter Steel Pipe, Corner Style, All-Welded, Protective Guard.....	677.97
05 58 23 00-0058	EA 30" Length, 36" Height, 4-1/2" Diameter Steel Pipe, Corner Style, All-Welded, Protective Guard.....	738.91
05 58 23 00-0059	Warehouse Safety Bollards <small>(05 58 23)</small>	
	Note: Includes painted finish, drilling, surface mounting plate and anchors.	
05 58 23 00-0060	EA 24" Height, 4-1/2" Diameter Steel Pipe, Bolt Down, Warehouse Safety Bollard.....	304.17
05 58 23 00-0061	EA 36" Height, 4-1/2" Diameter Steel Pipe, Bolt Down, Warehouse Safety Bollard.....	353.12
05 58 23 00-0062	EA 42" Height, 4-1/2" Diameter Steel Pipe, Bolt Down, Warehouse Safety Bollard.....	404.94
05 58 23 00-0063	EA 36" Height, 5-1/2" Diameter Steel Pipe, Bolt Down, Warehouse Safety Bollard.....	419.11
05 58 23 00-0064	EA 42" Height, 5-1/2" Diameter Steel Pipe, Bolt Down, Warehouse Safety Bollard.....	451.81

05 59 Metal Specialties (05 50)

05 59 65 Metal Chain (05 59)

05 59 65 00-0001	Alloy Steel Chain, Self Colored, Cut Length <small>(05 59 65)</small>	
	Note: Includes all connecting links, double clevis mid-Links, slip or grab hooks, or shackles as required.	
05 59 65 00-0002	LF 3/16" Diameter Alloy Steel Chain, Cut Length, Self Colored.....	6.66
	<i>For Plastic Dipped, Add</i>	0.68
05 59 65 00-0003	LF 1/4" Diameter Alloy Steel Chain, Cut Length, Self Colored.....	7.87
	<i>For Plastic Dipped, Add</i>	0.76
05 59 65 00-0004	LF 3/8" Diameter Alloy Steel Chain, Cut Length, Self Colored.....	12.45
	<i>For Plastic Dipped, Add</i>	1.02
05 59 65 00-0005	LF 1/2" Diameter Alloy Steel Chain, Cut Length, Self Colored.....	19.98
	<i>For Plastic Dipped, Add</i>	1.57
05 59 65 00-0006	LF 5/8" Diameter Alloy Steel Chain, Cut Length, Self Colored.....	33.73
	<i>For Plastic Dipped, Add</i>	2.65
05 59 65 00-0007	LF 3/4" Diameter Alloy Steel Chain, Cut Length, Self Colored.....	47.34
	<i>For Plastic Dipped, Add</i>	3.72
05 59 65 00-0008	LF 7/8" Diameter Alloy Steel Chain, Cut Length, Self Colored.....	64.53
	<i>For Plastic Dipped, Add</i>	5.45
05 59 65 00-0009	LF 1" Diameter Alloy Steel Chain, Cut Length, Self Colored.....	93.30
	<i>For Plastic Dipped, Add</i>	8.36
05 59 65 00-0010	LF 1-1/4" Diameter Alloy Steel Chain, Cut Length, Self Colored.....	151.73
	<i>For Plastic Dipped, Add</i>	14.30

05 59 65 00-0011	316L Stainless Steel Chain, Cut Length <small>(05 59 65)</small>	
05 59 65 00-0012	CLF 1/8" Diameter 316L Stainless Steel Chain, Cut Length.....	2,687.23
05 59 65 00-0013	CLF 3/16" Diameter 316L Stainless Steel Chain, Cut Length.....	3,306.91
05 59 65 00-0014	CLF 9/32" Diameter 316L Stainless Steel Chain, Cut Length.....	4,145.32
05 59 65 00-0015	CLF 5/16" Diameter 316L Stainless Steel Chain, Cut Length.....	5,600.20
05 59 65 00-0016	CLF 3/8" Diameter 316L Stainless Steel Chain, Cut Length.....	6,368.67
05 59 65 00-0017	CLF 1/2" Diameter 316L Stainless Steel Chain, Cut Length.....	9,609.93

05 59 69 Metal Panels (05 59)

05 59 69 00-0001	Woven And Welded Wire Cloth <small>(05 59 69)</small>	
	Note: Excludes frame and fastening to frame. See CSI section 05 05 21 00-0004 for spot welding.	
05 59 69 00-0002	Plain Steel Woven And Welded Wire Cloth Panels <small>(05 59 69 00-0001)</small>	
05 59 69 00-0003	2" Square Wire Spacing <small>(05 59 69 00-0002)</small>	



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 59 69 00-0004	SF	0.12" Thick Wire, 2" Spacing, 0.44 LB/SF Woven And Welded Wire Cloth Panels	9.94	3.01
		For Up To 2, Add	2.79	
		For >2 To 6, Add	1.60	
		For >15 To 40, Deduct	-0.30	
		For >40, Deduct	-0.89	
		For Galvanized, Add	2.60	
		For Aluminum, Add	3.55	
		For 304 Stainless Steel, Add	14.21	
		For 316 Stainless Steel, Add	16.28	
05 59 69 00-0005	SF	0.135" Thick Wire, 2" Spacing, 0.55 LB/SF Woven And Welded Wire Cloth Panels	10.69	3.13
		For Up To 2, Add	2.98	
		For >2 To 6, Add	1.70	
		For >15 To 40, Deduct	-0.33	
		For >40, Deduct	-0.98	
		For Galvanized, Add	2.86	
		For Aluminum, Add	3.90	
		For 304 Stainless Steel, Add	15.60	
		For 316 Stainless Steel, Add	17.88	
05 59 69 00-0006	SF	0.148" Thick Wire, 2" Spacing, 0.65 LB/SF Woven And Welded Wire Cloth Panels	11.36	3.48
		For Up To 2, Add	3.20	
		For >2 To 6, Add	1.83	
		For >15 To 40, Deduct	-0.34	
		For >40, Deduct	-1.01	
		For Galvanized, Add	2.96	
		For Aluminum, Add	4.04	
		For 304 Stainless Steel, Add	16.15	
		For 316 Stainless Steel, Add	18.51	
05 59 69 00-0007	SF	0.162" Thick Wire, 2" Spacing, 0.78 LB/SF Woven And Welded Wire Cloth Panels	11.98	3.63
		For Up To 2, Add	3.36	
		For >2 To 6, Add	1.92	
		For >15 To 40, Deduct	-0.36	
		For >40, Deduct	-1.07	
		For Galvanized, Add	3.15	
		For Aluminum, Add	4.29	
		For 304 Stainless Steel, Add	17.16	
		For 316 Stainless Steel, Add	19.66	
05 59 69 00-0008	SF	0.177" Thick Wire, 2" Spacing, 0.92 LB/SF Woven And Welded Wire Cloth Panels	13.10	4.06
		For Up To 2, Add	3.70	
		For >2 To 6, Add	2.12	
		For >15 To 40, Deduct	-0.38	
		For >40, Deduct	-1.15	
		For Galvanized, Add	3.38	
		For Aluminum, Add	4.61	
		For 304 Stainless Steel, Add	18.43	
		For 316 Stainless Steel, Add	21.12	
05 59 69 00-0009	SF	0.192" Thick Wire, 2" Spacing, 1.08 LB/SF Woven And Welded Wire Cloth Panels	15.05	4.52
		For Up To 2, Add	4.22	
		For >2 To 6, Add	2.41	
		For >15 To 40, Deduct	-0.45	
		For >40, Deduct	-1.35	
		For Galvanized, Add	3.97	
		For Aluminum, Add	5.41	
		For 304 Stainless Steel, Add	21.65	
		For 316 Stainless Steel, Add	24.81	
05 59 69 00-0010	SF	0.207" Thick Wire, 2" Spacing, 1.25 LB/SF Woven And Welded Wire Cloth Panels	17.08	4.98
		For Up To 2, Add	4.74	
		For >2 To 6, Add	2.70	
		For >15 To 40, Deduct	-0.52	
		For >40, Deduct	-1.57	
		For Galvanized, Add	4.59	
		For Aluminum, Add	6.26	
		For 304 Stainless Steel, Add	25.06	
		For 316 Stainless Steel, Add	28.71	
05 59 69 00-0011	SF	0.225" Thick Wire, 2" Spacing, 1.46 LB/SF Woven And Welded Wire Cloth Panels	19.55	5.53
		For Up To 2, Add	5.38	
		For >2 To 6, Add	3.06	
		For >15 To 40, Deduct	-0.61	
		For >40, Deduct	-1.83	
		For Galvanized, Add	5.36	
		For Aluminum, Add	7.31	
		For 304 Stainless Steel, Add	29.26	
		For 316 Stainless Steel, Add	33.52	
05 59 69 00-0012		1-3/4" Square Wire Spacing (05 59 69 00-0002)		
05 59 69 00-0013	SF	0.12" Thick Wire, 1-3/4" Spacing, 0.49 LB/SF Woven And Welded Wire Cloth Panels	10.42	3.19
		For Up To 2, Add	2.93	
		For >2 To 6, Add	1.68	
		For >15 To 40, Deduct	-0.31	
		For >40, Deduct	-0.93	
		For Galvanized, Add	2.71	
		For Aluminum, Add	3.70	
		For 304 Stainless Steel, Add	14.81	
		For 316 Stainless Steel, Add	16.97	



Metals	05	05
Metal Fabrications	05 50	
Metal Specialties	05 59	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 59 69 00-0014 SF 0.135" Thick Wire, 1-3/4" Spacing, 0.62 LB/SF Woven And Welded Wire Cloth Panels	11.47	3.36
For Up To 2, Add	3.19	
For >2 To 6, Add	1.82	
For >15 To 40, Deduct	-0.35	
For >40, Deduct	-1.05	
For Galvanized, Add	3.07	
For Aluminum, Add	4.19	
For 304 Stainless Steel, Add	16.75	
For 316 Stainless Steel, Add	19.20	
05 59 69 00-0015 SF 0.148" Thick Wire, 1-3/4" Spacing, 0.74 LB/SF Woven And Welded Wire Cloth Panels	12.33	3.77
For Up To 2, Add	3.47	
For >2 To 6, Add	1.99	
For >15 To 40, Deduct	-0.36	
For >40, Deduct	-1.09	
For Galvanized, Add	3.21	
For Aluminum, Add	4.37	
For 304 Stainless Steel, Add	17.50	
For 316 Stainless Steel, Add	20.05	
05 59 69 00-0016 SF 0.162" Thick Wire, 1-3/4" Spacing, 0.88 LB/SF Woven And Welded Wire Cloth Panels	12.88	3.89
For Up To 2, Add	3.61	
For >2 To 6, Add	2.07	
For >15 To 40, Deduct	-0.38	
For >40, Deduct	-1.15	
For Galvanized, Add	3.38	
For Aluminum, Add	4.61	
For 304 Stainless Steel, Add	18.46	
For 316 Stainless Steel, Add	21.15	
05 59 69 00-0017 SF 0.177" Thick Wire, 1-3/4" Spacing, 1.04 LB/SF Woven And Welded Wire Cloth Panels	14.09	4.36
For Up To 2, Add	3.98	
For >2 To 6, Add	2.28	
For >15 To 40, Deduct	-0.41	
For >40, Deduct	-1.24	
For Galvanized, Add	3.64	
For Aluminum, Add	4.96	
For 304 Stainless Steel, Add	19.85	
For 316 Stainless Steel, Add	22.74	
05 59 69 00-0018 SF 0.192" Thick Wire, 1-3/4" Spacing, 1.22 LB/SF Woven And Welded Wire Cloth Panels	16.20	4.88
For Up To 2, Add	4.54	
For >2 To 6, Add	2.60	
For >15 To 40, Deduct	-0.49	
For >40, Deduct	-1.46	
For Galvanized, Add	4.27	
For Aluminum, Add	5.82	
For 304 Stainless Steel, Add	23.28	
For 316 Stainless Steel, Add	26.68	
05 59 69 00-0019 SF 0.207" Thick Wire, 1-3/4" Spacing, 1.41 LB/SF Woven And Welded Wire Cloth Panels	18.35	5.35
For Up To 2, Add	5.10	
For >2 To 6, Add	2.90	
For >15 To 40, Deduct	-0.56	
For >40, Deduct	-1.68	
For Galvanized, Add	4.94	
For Aluminum, Add	6.73	
For 304 Stainless Steel, Add	26.93	
For 316 Stainless Steel, Add	30.86	
05 59 69 00-0020 SF 0.225" Thick Wire, 1-3/4" Spacing, 1.65 LB/SF Woven And Welded Wire Cloth Panels	21.05	5.94
For Up To 2, Add	5.80	
For >2 To 6, Add	3.29	
For >15 To 40, Deduct	-0.66	
For >40, Deduct	-1.97	
For Galvanized, Add	5.77	
For Aluminum, Add	7.87	
For 304 Stainless Steel, Add	31.49	
For 316 Stainless Steel, Add	36.08	
05 59 69 00-0021 1-1/2" Square Wire Spacing <small>(05 59 69 00-0002)</small>		
05 59 69 00-0022 SF 0.12" Thick Wire, 1-1/2" Spacing, 0.57 LB/SF Woven And Welded Wire Cloth Panels	11.54	3.55
For Up To 2, Add	3.25	
For >2 To 6, Add	1.86	
For >15 To 40, Deduct	-0.34	
For >40, Deduct	-1.02	
For Galvanized, Add	3.01	
For Aluminum, Add	4.10	
For 304 Stainless Steel, Add	16.39	
For 316 Stainless Steel, Add	18.78	
05 59 69 00-0023 SF 0.135" Thick Wire, 1-1/2" Spacing, 0.72 LB/SF Woven And Welded Wire Cloth Panels	12.69	3.73
For Up To 2, Add	3.53	
For >2 To 6, Add	2.01	
For >15 To 40, Deduct	-0.39	
For >40, Deduct	-1.16	
For Galvanized, Add	3.40	
For Aluminum, Add	4.63	
For 304 Stainless Steel, Add	18.53	
For 316 Stainless Steel, Add	21.23	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 59 69 00-0024	SF		0.148" Thick Wire, 1-1/2" Spacing, 0.85 LB/SF Woven And Welded Wire Cloth Panels	13.49	4.13
			For Up To 2, Add	3.80	
			For >2 To 6, Add	2.18	
			For >15 To 40, Deduct	-0.40	
			For >40, Deduct	-1.20	
			For Galvanized, Add	3.51	
			For Aluminum, Add	4.79	
			For 304 Stainless Steel, Add	19.15	
			For 316 Stainless Steel, Add	21.95	
05 59 69 00-0025	SF		0.162" Thick Wire, 1-1/2" Spacing, 1.02 LB/SF Woven And Welded Wire Cloth Panels	14.22	4.30
			For Up To 2, Add	3.99	
			For >2 To 6, Add	2.28	
			For >15 To 40, Deduct	-0.42	
			For >40, Deduct	-1.27	
			For Galvanized, Add	3.74	
			For Aluminum, Add	5.09	
			For 304 Stainless Steel, Add	20.38	
			For 316 Stainless Steel, Add	23.35	
05 59 69 00-0026	SF		0.177" Thick Wire, 1-1/2" Spacing, 1.2 LB/SF Woven And Welded Wire Cloth Panels	15.50	4.80
			For Up To 2, Add	4.38	
			For >2 To 6, Add	2.51	
			For >15 To 40, Deduct	-0.45	
			For >40, Deduct	-1.36	
			For Galvanized, Add	4.00	
			For Aluminum, Add	5.45	
			For 304 Stainless Steel, Add	21.82	
			For 316 Stainless Steel, Add	25.00	
05 59 69 00-0027	SF		0.192" Thick Wire, 1-1/2" Spacing, 1.4 LB/SF Woven And Welded Wire Cloth Panels	17.70	5.33
			For Up To 2, Add	4.96	
			For >2 To 6, Add	2.83	
			For >15 To 40, Deduct	-0.53	
			For >40, Deduct	-1.59	
			For Galvanized, Add	4.67	
			For Aluminum, Add	6.37	
			For 304 Stainless Steel, Add	25.46	
			For 316 Stainless Steel, Add	29.18	
05 59 69 00-0028	SF		0.207" Thick Wire, 1-1/2" Spacing, 1.62 LB/SF Woven And Welded Wire Cloth Panels	20.07	5.85
			For Up To 2, Add	5.57	
			For >2 To 6, Add	3.18	
			For >15 To 40, Deduct	-0.61	
			For >40, Deduct	-1.84	
			For Galvanized, Add	5.40	
			For Aluminum, Add	7.36	
			For 304 Stainless Steel, Add	29.45	
			For 316 Stainless Steel, Add	33.74	
05 59 69 00-0029	SF		0.225" Thick Wire, 1-1/2" Spacing, 1.89 LB/SF Woven And Welded Wire Cloth Panels	22.96	6.49
			For Up To 2, Add	6.32	
			For >2 To 6, Add	3.59	
			For >15 To 40, Deduct	-0.72	
			For >40, Deduct	-2.15	
			For Galvanized, Add	6.30	
			For Aluminum, Add	8.59	
			For 304 Stainless Steel, Add	34.37	
			For 316 Stainless Steel, Add	39.38	
05 59 69 00-0030			1-1/4" Square Wire Spacing <small>(05 59 69 00-0002)</small>		
05 59 69 00-0031	SF		0.105" Thick Wire, 1-1/4" Spacing, 0.52 LB/SF Woven And Welded Wire Cloth Panels	11.80	3.83
			For Up To 2, Add	3.38	
			For >2 To 6, Add	1.95	
			For >15 To 40, Deduct	-0.33	
			For >40, Deduct	-1.00	
			For Galvanized, Add	2.94	
			For Aluminum, Add	4.01	
			For 304 Stainless Steel, Add	16.06	
			For 316 Stainless Steel, Add	18.40	
05 59 69 00-0032	SF		0.12" Thick Wire, 1-1/4" Spacing, 0.68 LB/SF Woven And Welded Wire Cloth Panels	12.77	4.02
			For Up To 2, Add	3.63	
			For >2 To 6, Add	2.08	
			For >15 To 40, Deduct	-0.37	
			For >40, Deduct	-1.11	
			For Galvanized, Add	3.26	
			For Aluminum, Add	4.45	
			For 304 Stainless Steel, Add	17.78	
			For 316 Stainless Steel, Add	20.38	
05 59 69 00-0033	SF		0.135" Thick Wire, 1-1/4" Spacing, 0.85 LB/SF Woven And Welded Wire Cloth Panels	13.87	4.19
			For Up To 2, Add	3.89	
			For >2 To 6, Add	2.22	
			For >15 To 40, Deduct	-0.41	
			For >40, Deduct	-1.24	
			For Galvanized, Add	3.65	
			For Aluminum, Add	4.97	
			For 304 Stainless Steel, Add	19.90	
			For 316 Stainless Steel, Add	22.80	



Metals	05	05
Metal Fabrications	05 50	
Metal Specialties	05 59	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 59 69 00-0034 SF 0.148" Thick Wire, 1-1/4" Spacing, 1.01 LB/SF Woven And Welded Wire Cloth Panels	14.30	4.26
For Up To 2, Add	4.00	
For >2 To 6, Add	2.28	
For >15 To 40, Deduct	-0.43	
For >40, Deduct	-1.29	
For Galvanized, Add	3.79	
For Aluminum, Add	5.17	
For 304 Stainless Steel, Add	20.69	
For 316 Stainless Steel, Add	23.71	
05 59 69 00-0035 SF 0.162" Thick Wire, 1-1/4" Spacing, 1.2 LB/SF Woven And Welded Wire Cloth Panels	15.50	4.81
For Up To 2, Add	4.38	
For >2 To 6, Add	2.51	
For >15 To 40, Deduct	-0.45	
For >40, Deduct	-1.36	
For Galvanized, Add	4.00	
For Aluminum, Add	5.45	
For 304 Stainless Steel, Add	21.79	
For 316 Stainless Steel, Add	24.97	
05 59 69 00-0036 SF 0.177" Thick Wire, 1-1/4" Spacing, 1.42 LB/SF Woven And Welded Wire Cloth Panels	17.46	5.42
For Up To 2, Add	4.94	
For >2 To 6, Add	2.83	
For >15 To 40, Deduct	-0.51	
For >40, Deduct	-1.54	
For Galvanized, Add	4.51	
For Aluminum, Add	6.14	
For 304 Stainless Steel, Add	24.58	
For 316 Stainless Steel, Add	28.16	
05 59 69 00-0037 SF 0.192" Thick Wire, 1-1/4" Spacing, 1.65 LB/SF Woven And Welded Wire Cloth Panels	19.87	5.98
For Up To 2, Add	5.57	
For >2 To 6, Add	3.18	
For >15 To 40, Deduct	-0.60	
For >40, Deduct	-1.79	
For Galvanized, Add	5.24	
For Aluminum, Add	7.14	
For 304 Stainless Steel, Add	28.56	
For 316 Stainless Steel, Add	32.73	
05 59 69 00-0038 SF 0.207" Thick Wire, 1-1/4" Spacing, 1.9 LB/SF Woven And Welded Wire Cloth Panels	22.42	6.53
For Up To 2, Add	6.23	
For >2 To 6, Add	3.55	
For >15 To 40, Deduct	-0.69	
For >40, Deduct	-2.06	
For Galvanized, Add	6.03	
For Aluminum, Add	8.23	
For 304 Stainless Steel, Add	32.90	
For 316 Stainless Steel, Add	37.70	
05 59 69 00-0039 SF 0.225" Thick Wire, 1-1/4" Spacing, 2.22 LB/SF Woven And Welded Wire Cloth Panels	25.69	7.25
For Up To 2, Add	7.07	
For >2 To 6, Add	4.02	
For >15 To 40, Deduct	-0.80	
For >40, Deduct	-2.40	
For Galvanized, Add	7.05	
For Aluminum, Add	9.61	
For 304 Stainless Steel, Add	38.45	
For 316 Stainless Steel, Add	44.06	
05 59 69 00-0040 1" Square Wire Spacing (05 59 69 00-0002)		
05 59 69 00-0041 SF 0.105" Thick Wire, 1" Spacing, 0.64 LB/SF Woven And Welded Wire Cloth Panels	13.47	4.49
For Up To 2, Add	3.89	
For >2 To 6, Add	2.24	
For >15 To 40, Deduct	-0.37	
For >40, Deduct	-1.12	
For Galvanized, Add	3.30	
For Aluminum, Add	4.49	
For 304 Stainless Steel, Add	17.98	
For 316 Stainless Steel, Add	20.60	
05 59 69 00-0042 SF 0.12" Thick Wire, 1" Spacing, 0.83 LB/SF Woven And Welded Wire Cloth Panels	14.45	4.67
For Up To 2, Add	4.14	
For >2 To 6, Add	2.38	
For >15 To 40, Deduct	-0.41	
For >40, Deduct	-1.23	
For Galvanized, Add	3.62	
For Aluminum, Add	4.93	
For 304 Stainless Steel, Add	19.73	
For 316 Stainless Steel, Add	22.61	
05 59 69 00-0043 SF 0.135" Thick Wire, 1" Spacing, 1.04 LB/SF Woven And Welded Wire Cloth Panels	15.05	4.88
For Up To 2, Add	4.31	
For >2 To 6, Add	2.48	
For >15 To 40, Deduct	-0.43	
For >40, Deduct	-1.28	
For Galvanized, Add	3.76	
For Aluminum, Add	5.12	
For 304 Stainless Steel, Add	20.50	
For 316 Stainless Steel, Add	23.49	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 59 69 00-0044	SF		0.148" Thick Wire, 1" Spacing, 1.23 LB/SF Woven And Welded Wire Cloth Panels	16.14	4.95
			<i>For Up To 2, Add</i>	4.55	
			<i>For >2 To 6, Add</i>	2.60	
			<i>For >15 To 40, Deduct</i>	-0.48	
			<i>For >40, Deduct</i>	-1.43	
			<i>For Galvanized, Add</i>	4.20	
			<i>For Aluminum, Add</i>	5.72	
			<i>For 304 Stainless Steel, Add</i>	22.90	
			<i>For 316 Stainless Steel, Add</i>	26.24	
05 59 69 00-0045	SF		0.162" Thick Wire, 1" Spacing, 1.46 LB/SF Woven And Welded Wire Cloth Panels	17.95	5.57
			<i>For Up To 2, Add</i>	5.08	
			<i>For >2 To 6, Add</i>	2.91	
			<i>For >15 To 40, Deduct</i>	-0.53	
			<i>For >40, Deduct</i>	-1.58	
			<i>For Galvanized, Add</i>	4.63	
			<i>For Aluminum, Add</i>	6.31	
			<i>For 304 Stainless Steel, Add</i>	25.25	
			<i>For 316 Stainless Steel, Add</i>	28.93	
05 59 69 00-0046	SF		0.177" Thick Wire, 1" Spacing, 1.72 LB/SF Woven And Welded Wire Cloth Panels	20.15	6.24
			<i>For Up To 2, Add</i>	5.70	
			<i>For >2 To 6, Add</i>	3.26	
			<i>For >15 To 40, Deduct</i>	-0.59	
			<i>For >40, Deduct</i>	-1.77	
			<i>For Galvanized, Add</i>	5.20	
			<i>For Aluminum, Add</i>	7.09	
			<i>For 304 Stainless Steel, Add</i>	28.37	
			<i>For 316 Stainless Steel, Add</i>	32.51	
05 59 69 00-0047	SF		0.192" Thick Wire, 1" Spacing, 2.01 LB/SF Woven And Welded Wire Cloth Panels	23.05	6.93
			<i>For Up To 2, Add</i>	6.46	
			<i>For >2 To 6, Add</i>	3.69	
			<i>For >15 To 40, Deduct</i>	-0.69	
			<i>For >40, Deduct</i>	-2.07	
			<i>For Galvanized, Add</i>	6.08	
			<i>For Aluminum, Add</i>	8.29	
			<i>For 304 Stainless Steel, Add</i>	33.14	
			<i>For 316 Stainless Steel, Add</i>	37.98	
05 59 69 00-0048	SF		0.207" Thick Wire, 1" Spacing, 2.31 LB/SF Woven And Welded Wire Cloth Panels	25.95	7.57
			<i>For Up To 2, Add</i>	7.21	
			<i>For >2 To 6, Add</i>	4.11	
			<i>For >15 To 40, Deduct</i>	-0.79	
			<i>For >40, Deduct</i>	-2.38	
			<i>For Galvanized, Add</i>	6.98	
			<i>For Aluminum, Add</i>	9.52	
			<i>For 304 Stainless Steel, Add</i>	38.09	
			<i>For 316 Stainless Steel, Add</i>	43.64	
05 59 69 00-0049	SF		0.225" Thick Wire, 1" Spacing, 2.69 LB/SF Woven And Welded Wire Cloth Panels	29.64	8.37
			<i>For Up To 2, Add</i>	8.16	
			<i>For >2 To 6, Add</i>	4.64	
			<i>For >15 To 40, Deduct</i>	-0.92	
			<i>For >40, Deduct</i>	-2.77	
			<i>For Galvanized, Add</i>	8.13	
			<i>For Aluminum, Add</i>	11.09	
			<i>For 304 Stainless Steel, Add</i>	44.35	
			<i>For 316 Stainless Steel, Add</i>	50.82	
05 59 69 00-0050			3/4" Square Wire Spacing <small>(05 59 69 00-0002)</small>		
05 59 69 00-0051	SF		0.105" Thick Wire, 3/4" Spacing, 0.83 LB/SF Woven And Welded Wire Cloth Panels	13.63	4.48
			<i>For Up To 2, Add</i>	3.92	
			<i>For >2 To 6, Add</i>	2.26	
			<i>For >15 To 40, Deduct</i>	-0.38	
			<i>For >40, Deduct</i>	-1.15	
			<i>For Galvanized, Add</i>	3.37	
			<i>For Aluminum, Add</i>	4.60	
			<i>For 304 Stainless Steel, Add</i>	18.41	
			<i>For 316 Stainless Steel, Add</i>	21.09	
05 59 69 00-0052	SF		0.12" Thick Wire, 3/4" Spacing, 1.07 LB/SF Woven And Welded Wire Cloth Panels	15.23	5.02
			<i>For Up To 2, Add</i>	4.38	
			<i>For >2 To 6, Add</i>	2.53	
			<i>For >15 To 40, Deduct</i>	-0.43	
			<i>For >40, Deduct</i>	-1.28	
			<i>For Galvanized, Add</i>	3.76	
			<i>For Aluminum, Add</i>	5.12	
			<i>For 304 Stainless Steel, Add</i>	20.50	
			<i>For 316 Stainless Steel, Add</i>	23.49	
05 59 69 00-0053	SF		0.135" Thick Wire, 3/4" Spacing, 1.33 LB/SF Woven And Welded Wire Cloth Panels	16.84	5.67
			<i>For Up To 2, Add</i>	4.88	
			<i>For >2 To 6, Add</i>	2.82	
			<i>For >15 To 40, Deduct</i>	-0.46	
			<i>For >40, Deduct</i>	-1.39	
			<i>For Galvanized, Add</i>	4.09	
			<i>For Aluminum, Add</i>	5.57	
			<i>For 304 Stainless Steel, Add</i>	22.30	
			<i>For 316 Stainless Steel, Add</i>	25.55	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 59 69 00-0054 SF 0.148" Thick Wire, 3/4" Spacing, 1.58 LB/SF Woven And Welded Wire Cloth Panels	18.23	6.04
For Up To 2, Add	5.26	
For >2 To 6, Add	3.03	
For >15 To 40, Deduct	-0.51	
For >40, Deduct	-1.52	
For Galvanized, Add	4.47	
For Aluminum, Add	6.10	
For 304 Stainless Steel, Add	24.38	
For 316 Stainless Steel, Add	27.94	
05 59 69 00-0055 SF 0.162" Thick Wire, 3/4" Spacing, 1.87 LB/SF Woven And Welded Wire Cloth Panels	21.09	6.80
For Up To 2, Add	6.03	
For >2 To 6, Add	3.47	
For >15 To 40, Deduct	-0.60	
For >40, Deduct	-1.80	
For Galvanized, Add	5.29	
For Aluminum, Add	7.21	
For 304 Stainless Steel, Add	28.85	
For 316 Stainless Steel, Add	33.06	
05 59 69 00-0056 SF 0.177" Thick Wire, 3/4" Spacing, 2.2 LB/SF Woven And Welded Wire Cloth Panels	24.28	7.61
For Up To 2, Add	6.88	
For >2 To 6, Add	3.95	
For >15 To 40, Deduct	-0.71	
For >40, Deduct	-2.12	
For Galvanized, Add	6.22	
For Aluminum, Add	8.48	
For 304 Stainless Steel, Add	33.94	
For 316 Stainless Steel, Add	38.89	
05 59 69 00-0057 SF 0.192" Thick Wire, 3/4" Spacing, 2.56 LB/SF Woven And Welded Wire Cloth Panels	27.66	8.40
For Up To 2, Add	7.77	
For >2 To 6, Add	4.45	
For >15 To 40, Deduct	-0.82	
For >40, Deduct	-2.47	
For Galvanized, Add	7.24	
For Aluminum, Add	9.87	
For 304 Stainless Steel, Add	39.48	
For 316 Stainless Steel, Add	45.24	
05 59 69 00-0058 SF 0.207" Thick Wire, 3/4" Spacing, 2.93 LB/SF Woven And Welded Wire Cloth Panels	31.02	9.14
For Up To 2, Add	8.64	
For >2 To 6, Add	4.93	
For >15 To 40, Deduct	-0.94	
For >40, Deduct	-2.82	
For Galvanized, Add	8.29	
For Aluminum, Add	11.30	
For 304 Stainless Steel, Add	45.19	
For 316 Stainless Steel, Add	51.78	
05 59 69 00-0059 SF 0.225" Thick Wire, 3/4" Spacing, 3.41 LB/SF Woven And Welded Wire Cloth Panels	35.39	10.11
For Up To 2, Add	9.77	
For >2 To 6, Add	5.56	
For >15 To 40, Deduct	-1.10	
For >40, Deduct	-3.29	
For Galvanized, Add	9.64	
For Aluminum, Add	13.15	
For 304 Stainless Steel, Add	52.61	
For 316 Stainless Steel, Add	60.28	
05 59 69 00-0060 1/2" Square Wire Spacing <small>(05 59 69 00-0002)</small>		
05 59 69 00-0061 SF 0.105" Thick Wire, 1/2" Spacing, 1.18 LB/SF Woven And Welded Wire Cloth Panels	14.24	4.79
For Up To 2, Add	4.13	
For >2 To 6, Add	2.38	
For >15 To 40, Deduct	-0.39	
For >40, Deduct	-1.18	
For Galvanized, Add	3.45	
For Aluminum, Add	4.71	
For 304 Stainless Steel, Add	18.84	
For 316 Stainless Steel, Add	21.59	
05 59 69 00-0062 SF 0.12" Thick Wire, 1/2" Spacing, 1.51 LB/SF Woven And Welded Wire Cloth Panels	16.65	5.82
For Up To 2, Add	4.89	
For >2 To 6, Add	2.83	
For >15 To 40, Deduct	-0.44	
For >40, Deduct	-1.33	
For Galvanized, Add	3.90	
For Aluminum, Add	5.32	
For 304 Stainless Steel, Add	21.29	
For 316 Stainless Steel, Add	24.39	
05 59 69 00-0063 SF 0.135" Thick Wire, 1/2" Spacing, 1.88 LB/SF Woven And Welded Wire Cloth Panels	20.13	6.89
For Up To 2, Add	5.86	
For >2 To 6, Add	3.39	
For >15 To 40, Deduct	-0.55	
For >40, Deduct	-1.64	
For Galvanized, Add	4.81	
For Aluminum, Add	6.56	
For 304 Stainless Steel, Add	26.26	
For 316 Stainless Steel, Add	30.09	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 59 69 00-0064	SF		0.148" Thick Wire, 1/2" Spacing, 2.22 LB/SF Woven And Welded Wire Cloth Panels	23.23	7.73
			For Up To 2, Add	6.71	
			For >2 To 6, Add	3.87	
			For >15 To 40, Deduct	-0.65	
			For >40, Deduct	-1.94	
			For Galvanized, Add	5.68	
			For Aluminum, Add	7.75	
			For 304 Stainless Steel, Add	31.01	
			For 316 Stainless Steel, Add	35.53	
05 59 69 00-0065	SF		0.162" Thick Wire, 1/2" Spacing, 2.61 LB/SF Woven And Welded Wire Cloth Panels	26.69	8.63
			For Up To 2, Add	7.64	
			For >2 To 6, Add	4.39	
			For >15 To 40, Deduct	-0.76	
			For >40, Deduct	-2.28	
			For Galvanized, Add	6.68	
			For Aluminum, Add	9.11	
			For 304 Stainless Steel, Add	36.46	
			For 316 Stainless Steel, Add	41.77	
05 59 69 00-0066	SF		0.177" Thick Wire, 1/2" Spacing, 3.06 LB/SF Woven And Welded Wire Cloth Panels	30.62	9.61
			For Up To 2, Add	8.69	
			For >2 To 6, Add	4.99	
			For >15 To 40, Deduct	-0.89	
			For >40, Deduct	-2.67	
			For Galvanized, Add	7.83	
			For Aluminum, Add	10.68	
			For 304 Stainless Steel, Add	42.72	
			For 316 Stainless Steel, Add	48.95	
05 59 69 00-0067	SF		0.192" Thick Wire, 1/2" Spacing, 3.54 LB/SF Woven And Welded Wire Cloth Panels	34.69	10.57
			For Up To 2, Add	9.76	
			For >2 To 6, Add	5.58	
			For >15 To 40, Deduct	-1.03	
			For >40, Deduct	-3.09	
			For Galvanized, Add	9.06	
			For Aluminum, Add	12.36	
			For 304 Stainless Steel, Add	49.44	
			For 316 Stainless Steel, Add	56.65	
05 59 69 00-0068	SF		0.207" Thick Wire, 1/2" Spacing, 4.04 LB/SF Woven And Welded Wire Cloth Panels	38.78	11.46
			For Up To 2, Add	10.81	
			For >2 To 6, Add	6.17	
			For >15 To 40, Deduct	-1.18	
			For >40, Deduct	-3.53	
			For Galvanized, Add	10.34	
			For Aluminum, Add	14.10	
			For 304 Stainless Steel, Add	56.40	
			For 316 Stainless Steel, Add	64.63	
05 59 69 00-0069	SF		0.225" Thick Wire, 1/2" Spacing, 4.68 LB/SF Woven And Welded Wire Cloth Panels	40.31	12.61
			For Up To 2, Add	11.42	
			For >2 To 6, Add	6.55	
			For >15 To 40, Deduct	-1.18	
			For >40, Deduct	-3.53	
			For Galvanized, Add	10.34	
			For Aluminum, Add	14.10	
			For 304 Stainless Steel, Add	56.40	
			For 316 Stainless Steel, Add	64.63	
05 59 69 00-0070			Expanded Metal Panels <small>(05 59 69)</small> Note: Excludes frame and fastening to frame. See CSI section 05 05 21 00-0004 for spot welding.		
05 59 69 00-0071			Plain Flattened Expanded Metal Diamond Shape Panels <small>(05 59 69 00-0070)</small> Note: Excludes frame and fastening to frame. See CSI section 05 05 21 00-0004 for spot welding.		
05 59 69 00-0072	SF		1/4" #20-F Plain Expanded Metal Panel, 0.82 LB/SF	11.21	4.13
			For Galvanized, Add	2.51	
			For Aluminum, Add	3.42	
			For 304 Stainless Steel, Add	13.68	
			For 316 Stainless Steel, Add	15.68	
05 59 69 00-0073	SF		1/4" #18-F Plain Expanded Metal Panel, 1.08 LB/SF	14.09	4.52
			For Galvanized, Add	3.55	
			For Aluminum, Add	4.84	
			For 304 Stainless Steel, Add	19.34	
			For 316 Stainless Steel, Add	22.17	
05 59 69 00-0074	SF		1/2" #20-F Plain Expanded Metal Panel, 0.40 LB/SF	8.08	3.19
			For Galvanized, Add	1.69	
			For Aluminum, Add	2.30	
			For 304 Stainless Steel, Add	9.19	
			For 316 Stainless Steel, Add	10.53	
05 59 69 00-0075	SF		1/2" #18-F Plain Expanded Metal Panel, 0.66 LB/SF	8.82	3.48
			For Galvanized, Add	1.84	
			For Aluminum, Add	2.51	
			For 304 Stainless Steel, Add	10.06	
			For 316 Stainless Steel, Add	11.52	
05 59 69 00-0076	SF		1/2" #16-F Plain Expanded Metal Panel, 0.82 LB/SF	9.99	4.13
			For Galvanized, Add	1.97	
			For Aluminum, Add	2.69	
			For 304 Stainless Steel, Add	10.75	
			For 316 Stainless Steel, Add	12.32	



Metals	05	05
Metal Fabrications	05 50	
Metal Specialties	05 59	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 59 69 00-0077 SF 1/2" #13-F Plain Expanded Metal Panel, 1.4 LB/SF	12.78	5.33
For Galvanized, Add	2.50	
For Aluminum, Add	3.41	
For 304 Stainless Steel, Add	13.66	
For 316 Stainless Steel, Add	15.65	
05 59 69 00-0078 SF 3/4" #16-F Plain Expanded Metal Panel, 0.51 LB/SF	7.05	3.13
For Galvanized, Add	1.26	
For Aluminum, Add	1.72	
For 304 Stainless Steel, Add	6.86	
For 316 Stainless Steel, Add	7.87	
05 59 69 00-0079 SF 3/4" #14-F Plain Expanded Metal Panel, 0.63 LB/SF	7.89	3.36
For Galvanized, Add	1.50	
For Aluminum, Add	2.04	
For 304 Stainless Steel, Add	8.16	
For 316 Stainless Steel, Add	9.35	
05 59 69 00-0080 SF 3/4" #13-F Plain Expanded Metal Panel, 0.75 LB/SF	9.02	3.77
For Galvanized, Add	1.75	
For Aluminum, Add	2.39	
For 304 Stainless Steel, Add	9.55	
For 316 Stainless Steel, Add	10.95	
05 59 69 00-0081 SF 3/4" #9-F Plain Expanded Metal Panel, 1.50 LB/SF	14.21	6.24
For Galvanized, Add	2.59	
For Aluminum, Add	3.53	
For 304 Stainless Steel, Add	14.11	
For 316 Stainless Steel, Add	16.17	
05 59 69 00-0082 SF 1" #16-F Plain Expanded Metal Panel, 0.41 LB/SF	7.88	3.83
For Galvanized, Add	1.22	
For Aluminum, Add	1.66	
For 304 Stainless Steel, Add	6.65	
For 316 Stainless Steel, Add	7.62	
05 59 69 00-0083 SF 1-1/2" #16-F Plain Expanded Metal Panel, 0.38 LB/SF	6.80	3.01
For Galvanized, Add	1.22	
For Aluminum, Add	1.67	
For 304 Stainless Steel, Add	6.67	
For 316 Stainless Steel, Add	7.65	
05 59 69 00-0084 SF 1-1/2" #13-F Plain Expanded Metal Panel, 0.57 LB/SF	7.84	3.55
For Galvanized, Add	1.38	
For Aluminum, Add	1.88	
For 304 Stainless Steel, Add	7.51	
For 316 Stainless Steel, Add	8.61	
05 59 69 00-0085 SF 1-1/2" #9-F Plain Expanded Metal Panel, 1.14 LB/SF	12.17	4.79
For Galvanized, Add	2.54	
For Aluminum, Add	3.47	
For 304 Stainless Steel, Add	13.87	
For 316 Stainless Steel, Add	15.90	

END OF SECTION 05

05	05	Metals
	05 50	Metal Fabrications
	05 59	Metal Specialties



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
--------------	-----	-------------	---------------------------	-------------------------

THIS PAGE INTENTIONALLY LEFT BLANK



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
------------------------------	---------------------------	-------------------------

06 Wood, Plastics, and Composites

06 01 Maintenance of Wood, Plastics, and Composites ⁽⁰⁶⁾

06 01 20 Maintenance of Finish Carpentry ^(06 01)

06 01 20 91 Finish Carpentry Restoration ^(06 01 20)

06 01 20 91-0001	Wood Trim Repair ^(06 01 20 91)	9.64
06 01 20 91-0002	SF Restoration Of Existing Decorative Woodwork Note: Includes stripping to bare wood, filling or patching, stain or paint to match existing.	

06 05 Common Work Results for Wood, Plastics, and Composites ⁽⁰⁶⁾

06 05 23 Wood, Plastic, and Composite Fastenings ^(06 05)

Note: For additional fasteners above normal conditions, for replacing existing fasteners, for relocating existing materials or fixtures, or for different fasteners required due to load limits on standard fasteners.

06 05 23 00-0001 Threaded Anchor Bolts ^(06 05 23)		
Note: Threaded on two ends with two nuts and flat washers.		
06 05 23 00-0002	EA 1/2" Diameter x 4" Long, Threaded Anchor Bolt <i>For >10 To 50, Deduct</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	15.86 -0.45 -1.08 -2.15 -3.68 -5.21
06 05 23 00-0003	EA 1/2" Diameter x 7-1/2" Long, Threaded Anchor Bolt <i>For >10 To 50, Deduct</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	21.60 -0.49 -1.27 -2.55 -4.31 -6.07
06 05 23 00-0004	EA 3/4" Diameter x 7-1/2" Long, Threaded Anchor Bolt <i>For >10 To 50, Deduct</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	23.93 -0.49 -1.33 -2.66 -4.48 -6.30
06 05 23 00-0005	EA 3/4" Diameter x 12" Long, Threaded Anchor Bolt <i>For >10 To 50, Deduct</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	48.65 -0.67 -2.22 -4.44 -7.33 -10.21
06 05 23 00-0006 Framing Anchors ^(06 05 23)		
Note: Including nails.		
06 05 23 00-0007	EA 1-7/16" x 2-1/2", 18 Gauge, Galvanized Framing Angle Anchor (Simpson Strong Tie® A34) <i>For >10 To 50, Deduct</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	7.93 -0.36 -0.74 -1.49 -2.59 -3.70
06 05 23 00-0008	EA 1-7/16" x 4-1/2", 18 Gauge, Galvanized Framing Angle Anchor (Simpson Strong Tie® A35) <i>For >10 To 50, Deduct</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	8.86 -0.41 -0.83 -1.67 -2.91 -4.15
06 05 23 00-0009 Angle Anchors ^(06 05 23)		
Note: Including nails.		
06 05 23 00-0010	EA 2" x 1-1/2" x 1-3/8" Wide, 18 Gauge Galvanized Angle Anchor (Simpson Strong Tie® A21) <i>For >10 To 50, Deduct</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	8.02 -0.36 -0.75 -1.49 -2.60 -3.71
06 05 23 00-0011	EA 2" x 1-1/2" x 2-3/4" Wide, 18 Gauge Galvanized Angle Anchor (Simpson Strong Tie® A23) <i>For >10 To 50, Deduct</i> <i>For >50 To 100, Deduct</i> <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	8.75 -0.39 -0.80 -1.60 -2.78 -3.97

06 Wood, Plastics, and Composites**06 05 Common Work Results for Wood, Plastics, and Composites****06 05 23 Wood, Plastic, and Composite Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 05 23 00-0012 EA 3-7/8" x 2" x 2-1/2" Wide, 12 Gauge Galvanized Angle Anchor (Simpson Strong Tie® A24)	14.29	4.19
For>10 To 50, Deduct	-0.41	
For>50 To 100, Deduct	-0.97	
For>100 To 250, Deduct	-1.94	
For>250 To 500, Deduct	-3.32	
For>500, Deduct	-4.69	
06 05 23 00-0013 EA 3" x 3" x 1-1/2" Wide, 18 Gauge Galvanized Angle Anchor (Simpson Strong Tie® A33)	13.00	4.19
For>10 To 50, Deduct	-0.41	
For>50 To 100, Deduct	-0.94	
For>100 To 250, Deduct	-1.87	
For>250 To 500, Deduct	-3.22	
For>500, Deduct	-4.56	
06 05 23 00-0014 EA 4-9/16" x 4-9/16" x 1-1/2" Wide, 18 Gauge Galvanized Angle Anchor (Simpson Strong Tie® A44)	14.22	4.70
For>10 To 50, Deduct	-0.45	
For>50 To 100, Deduct	-1.03	
For>100 To 250, Deduct	-2.06	
For>250 To 500, Deduct	-3.54	
For>500, Deduct	-5.02	
06 05 23 00-0015 EA 5-7/8" x 5-7/8" x 1-1/2" Wide, 18 Gauge Galvanized Angle Anchor (Simpson Strong Tie® A66)	16.04	4.95
For>10 To 50, Deduct	-0.48	
For>50 To 100, Deduct	-1.13	
For>100 To 250, Deduct	-2.25	
For>250 To 500, Deduct	-3.86	
For>500, Deduct	-5.47	
06 05 23 00-0016 Reinforcing Angle Wood Construction Connectors (06 05 23)		
Note: Including nails.		
06 05 23 00-0017 EA 3" x 3-3/4", 16 Gauge, Galvanized Reinforcing Angle Wood Construction Connectors (Simpson Strong Tie® L30).....	8.70	3.56
For>10 To 50, Deduct	-0.36	
For>50 To 100, Deduct	-0.76	
For>100 To 250, Deduct	-1.52	
For>250 To 500, Deduct	-2.65	
For>500, Deduct	-3.77	
06 05 23 00-0018 EA 5" x 3-3/4", 16 Gauge, Galvanized Reinforcing Angle Wood Construction Connectors (Simpson Strong Tie® L50).....	10.55	3.81
For>10 To 50, Deduct	-0.38	
For>50 To 100, Deduct	-0.84	
For>100 To 250, Deduct	-1.68	
For>250 To 500, Deduct	-2.91	
For>500, Deduct	-4.13	
06 05 23 00-0019 EA 7" x 3-3/4", 16 Gauge, Galvanized Reinforcing Angle Wood Construction Connectors (Simpson Strong Tie® L70).....	11.88	3.93
For>10 To 50, Deduct	-0.40	
For>50 To 100, Deduct	-0.89	
For>100 To 250, Deduct	-1.79	
For>250 To 500, Deduct	-3.07	
For>500, Deduct	-4.36	
06 05 23 00-0020 EA 9" x 3-3/4", 16 Gauge, Galvanized Reinforcing Angle Wood Construction Connectors (Simpson Strong Tie® L90).....	13.11	4.06
For>10 To 50, Deduct	-0.42	
For>50 To 100, Deduct	-0.95	
For>100 To 250, Deduct	-1.91	
For>250 To 500, Deduct	-3.27	
For>500, Deduct	-4.64	
06 05 23 00-0021 EA 3-3/8" x 3-3/4", 18 Gauge, Galvanized Reinforcing Skewable Angle Wood Construction Connectors (Simpson Strong Tie® LS30).....	9.40	3.56
For>10 To 50, Deduct	-0.36	
For>50 To 100, Deduct	-0.78	
For>100 To 250, Deduct	-1.56	
For>250 To 500, Deduct	-2.70	
For>500, Deduct	-3.84	
06 05 23 00-0022 EA 4-7/8" x 3-3/4", 18 Gauge, Galvanized Reinforcing Skewable Angle Wood Construction Connectors (Simpson Strong Tie® LS50).....	10.31	3.81
For>10 To 50, Deduct	-0.38	
For>50 To 100, Deduct	-0.83	
For>100 To 250, Deduct	-1.67	
For>250 To 500, Deduct	-2.89	
For>500, Deduct	-4.11	
06 05 23 00-0023 EA 6-3/8" x 3-3/4", 18 Gauge, Galvanized Reinforcing Skewable Angle Wood Construction Connectors (Simpson Strong Tie® LS70).....	11.82	3.93
For>10 To 50, Deduct	-0.40	
For>50 To 100, Deduct	-0.89	
For>100 To 250, Deduct	-1.78	
For>250 To 500, Deduct	-3.07	
For>500, Deduct	-4.36	
06 05 23 00-0024 EA 7-7/8" x 3-3/4", 18 Gauge, Galvanized Reinforcing Skewable Angle Wood Construction Connectors (Simpson Strong Tie® LS90).....	13.85	4.06
For>10 To 50, Deduct	-0.42	
For>50 To 100, Deduct	-0.97	
For>100 To 250, Deduct	-1.94	
For>250 To 500, Deduct	-3.33	
For>500, Deduct	-4.72	
06 05 23 00-0025 Hold Down Anchors (06 05 23)		
Note: Including nails.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 05 23 00-0026 EA 8-5/8" High x 2-1/2" Wide x 2-1/4" Deep, 12 Gauge, Galvanized Hold Downs (Simpson Strong Tie® HD3B).....	60.83	
<i>For >10 To 50, Deduct</i>	-1.97	
<i>For >50 To 100, Deduct</i>	-4.47	
<i>For >100 To 250, Deduct</i>	-8.95	
<i>For >250 To 500, Deduct</i>	-15.39	
<i>For >500, Deduct</i>	-21.83	
06 05 23 00-0027 EA 9-3/8" High x 2-1/2" Wide x 2-1/2" Deep, 10 Gauge, Galvanized Hold Downs (Simpson Strong Tie® HD5B).....	82.85	
<i>For >10 To 50, Deduct</i>	-2.03	
<i>For >50 To 100, Deduct</i>	-5.12	
<i>For >100 To 250, Deduct</i>	-10.24	
<i>For >250 To 500, Deduct</i>	-17.39	
<i>For >500, Deduct</i>	-24.54	
06 05 23 00-0028 EA 12-3/8" High x 2-1/2" Wide x 2-1/2" Deep, 10 Gauge, Galvanized Hold Downs (Simpson Strong Tie® HD7B).....	101.06	
<i>For >10 To 50, Deduct</i>	-2.16	
<i>For >50 To 100, Deduct</i>	-5.77	
<i>For >100 To 250, Deduct</i>	-11.53	
<i>For >250 To 500, Deduct</i>	-19.45	
<i>For >500, Deduct</i>	-27.38	
06 05 23 00-0029 EA 14" High x 2-1/2" Wide x 2-1/2" Deep, 7 Gauge, Galvanized Hold Downs (Simpson Strong Tie® HD9B).....	118.83	
<i>For >10 To 50, Deduct</i>	-2.41	
<i>For >50 To 100, Deduct</i>	-6.59	
<i>For >100 To 250, Deduct</i>	-13.18	
<i>For >250 To 500, Deduct</i>	-22.18	
<i>For >500, Deduct</i>	-31.18	
06 05 23 00-0030 EA 20-5/16" High x 3-1/2" Wide x 4-1/2" Deep, 3 Gauge, Galvanized Hold Downs (Simpson Strong Tie® HD12).....	189.70	
<i>For >10 To 50, Deduct</i>	-3.05	
<i>For >50 To 100, Deduct</i>	-9.31	
<i>For >100 To 250, Deduct</i>	-18.63	
<i>For >250 To 500, Deduct</i>	-30.99	
<i>For >500, Deduct</i>	-43.35	
06 05 23 00-0031 EA 24-1/2" High x 3-1/2" Wide x 4-1/2" Deep, 3 Gauge, Galvanized Hold Downs (Simpson Strong Tie® HD19).....	252.46	
<i>For >10 To 50, Deduct</i>	-3.17	
<i>For >50 To 100, Deduct</i>	-11.07	
<i>For >100 To 250, Deduct</i>	-22.15	
<i>For >250 To 500, Deduct</i>	-36.39	
<i>For >500, Deduct</i>	-50.64	
06 05 23 00-0032 EA 8-11/16" Height x 3" Wide x 3-1/4" Deep, 14 Gauge, Galvanized Predeflected Holdown With Screws (Simpson Strong Tie® HDU2-SDS2.5).....	70.48	
<i>For >10 To 50, Deduct</i>	-1.97	
<i>For >50 To 100, Deduct</i>	-4.71	
<i>For >100 To 250, Deduct</i>	-9.43	
<i>For >250 To 500, Deduct</i>	-16.11	
<i>For >500, Deduct</i>	-22.79	
06 05 23 00-0033 EA 10-15/16" Height x 3" Wide x 3-1/4" Deep, 14 Gauge, Galvanized Predeflected Holdown With Screws (Simpson Strong Tie® HDU4-SDS2.5).....	77.52	
<i>For >10 To 50, Deduct</i>	-2.03	
<i>For >50 To 100, Deduct</i>	-4.99	
<i>For >100 To 250, Deduct</i>	-9.97	
<i>For >250 To 500, Deduct</i>	-16.99	
<i>For >500, Deduct</i>	-24.01	
06 05 23 00-0034 EA 13-3/16" Height x 3" Wide x 3-1/4" Deep, 14 Gauge, Galvanized Predeflected Holdown With Screws (Simpson Strong Tie® HDU5-SDS2.5).....	86.45	
<i>For >10 To 50, Deduct</i>	-2.16	
<i>For >50 To 100, Deduct</i>	-5.40	
<i>For >100 To 250, Deduct</i>	-10.80	
<i>For >250 To 500, Deduct</i>	-18.36	
<i>For >500, Deduct</i>	-25.92	
06 05 23 00-0035 EA 16-5/8" Height x 3" Wide x 3-1/2" Deep, 10 Gauge, Galvanized Predeflected Holdown With Screws (Simpson Strong Tie® HDU8-SDS2.5).....	105.91	
<i>For >10 To 50, Deduct</i>	-2.41	
<i>For >50 To 100, Deduct</i>	-6.27	
<i>For >100 To 250, Deduct</i>	-12.53	
<i>For >250 To 500, Deduct</i>	-21.21	
<i>For >500, Deduct</i>	-29.89	
06 05 23 00-0036 EA 22-1/4" Height x 3" Wide x 3-1/2" Deep, 10 Gauge, Galvanized Predeflected Holdown With Screws (Simpson Strong Tie® HDU11-SDS2.5).....	136.20	
<i>For >10 To 50, Deduct</i>	-3.05	
<i>For >50 To 100, Deduct</i>	-7.98	
<i>For >100 To 250, Deduct</i>	-15.95	
<i>For >250 To 500, Deduct</i>	-26.98	
<i>For >500, Deduct</i>	-38.00	
06 05 23 00-0037 EA 25-11/16" Height x 3" Wide x 3-1/2" Deep, 7 Gauge, Galvanized Predeflected Holdown With Screws (Simpson Strong Tie® HDU14-SDS2.5).....	151.40	
<i>For >10 To 50, Deduct</i>	-3.17	
<i>For >50 To 100, Deduct</i>	-8.55	
<i>For >100 To 250, Deduct</i>	-17.09	
<i>For >250 To 500, Deduct</i>	-28.81	
<i>For >500, Deduct</i>	-40.54	

06 05 23 00-0038 Joist And Beam Hangers (06 05 23)
 Note: Including nails.

06 Wood, Plastics, and Composites**06 05 Common Work Results for Wood, Plastics, and Composites****06 05 23 Wood, Plastic, and Composite Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 05 23 00-0039 EA 18 Gauge, Galvanized Joist Hanger, For 2" x 4" Joist Also Acceptable For Beam Hangers (Simpson Strong Tie® LU24).....	8.36	3.56
For >10 To 50, Deduct	-0.36	
For >50 To 100, Deduct	-0.75	
For >100 To 250, Deduct	-1.51	
For >250 To 500, Deduct	-2.62	
For >500, Deduct	-3.74	
06 05 23 00-0040 EA 18 Gauge, Galvanized Joist Hanger, For 2" x 6" To 2" x 10" Joist, Also Acceptable For Beam Hangers (Simpson Strong Tie® LU28).....	9.25	3.81
For >10 To 50, Deduct	-0.38	
For >50 To 100, Deduct	-0.81	
For >100 To 250, Deduct	-1.62	
For >250 To 500, Deduct	-2.81	
For >500, Deduct	-4.00	
06 05 23 00-0041 EA 16 Gauge, Galvanized Joist Hanger, For 3" x 6" To 3" x 9" Joist, Also Acceptable For Beam Hangers (Simpson Strong Tie® LUS36).....	12.51	3.93
For >10 To 50, Deduct	-0.40	
For >50 To 100, Deduct	-0.91	
For >100 To 250, Deduct	-1.82	
For >250 To 500, Deduct	-3.12	
For >500, Deduct	-4.43	
06 05 23 00-0042 EA 16 Gauge, Galvanized Joist Hanger, For 3" x 10" To 3" x 14" Joist, Also Acceptable For Beam Hangers (Simpson Strong Tie® LUS310).....	13.56	4.06
For >10 To 50, Deduct	-0.42	
For >50 To 100, Deduct	-0.96	
For >100 To 250, Deduct	-1.93	
For >250 To 500, Deduct	-3.31	
For >500, Deduct	-4.69	
06 05 23 00-0043 EA 14 Gauge, Galvanized Joist Hanger, For 4" x 6" To 4" x 8" Joist, Also Acceptable For Beam Hangers (Simpson Strong Tie® HUS46).....	20.07	4.31
For >10 To 50, Deduct	-0.43	
For >50 To 100, Deduct	-1.14	
For >100 To 250, Deduct	-2.29	
For >250 To 500, Deduct	-3.86	
For >500, Deduct	-5.44	
06 05 23 00-0044 EA 14 Gauge, Galvanized Joist Hanger, For 4" x 10" To 4" x 14" Joist, Also Acceptable For Beam Hangers (Simpson Strong Tie® HUS412).....	23.69	4.45
For >10 To 50, Deduct	-0.44	
For >50 To 100, Deduct	-1.25	
For >100 To 250, Deduct	-2.50	
For >250 To 500, Deduct	-4.19	
For >500, Deduct	-5.89	
06 05 23 00-0045 Anchor And Ties (06 05 23)		
Note: Including nails.		
06 05 23 00-0046 EA 12-3/8" Long, 11 Gauge, Galvanized Heavy Tension Tie (Simpson Strong Tie® HTT4).....	34.99	
Note: Includes nails. Excludes anchor bolt.		
06 05 23 00-0047 EA 16" Long, 11 Gauge, Galvanized Heavy Tension Tie (Simpson Strong Tie® HTT5).....	43.32	
Note: Includes nails. Excludes anchor bolt.		
06 05 23 00-0048 EA 16 Gauge, Zinc Galvanized Finish Mudsill Anchor (Simpson Strong Tie® MASAZ).....	4.92	
06 05 23 00-0049 EA 16 Gauge, Zinc Galvanized Finish Mudsill Anchor (Simpson Strong Tie® MASBZ).....	5.48	
06 05 23 00-0050 Hurricane Ties (06 05 23)		
06 05 23 00-0051 EA 6" x 1-3/8" Wide, 18 Gauge, Galvanized Finish Hurricane Ties (Simpson Strong Tie® H2.5A).....	9.29	3.93
For >10 To 50, Deduct	-0.44	
For >50 To 100, Deduct	-0.89	
For >100 To 250, Deduct	-1.78	
For >250 To 500, Deduct	-3.11	
For >500, Deduct	-4.43	
06 05 23 00-0052 EA 6" x 1-3/8" Wide, 18 Gauge, Zinc Galvanized Finish Hurricane Ties (Simpson Strong Tie® H2.5AZ).....	3.27	
06 05 23 00-0053 EA 6" x 1-3/8" Wide, 18 Gauge, Stainless Steel Hurricane Ties (Simpson Strong Tie® H2.5ASS).....	8.16	
06 05 23 00-0054 EA 10-7/16" x 1-1/2" Wide, 18 Gauge, Galvanized Finish Hurricane Ties (Simpson Strong Tie® H2A).....	11.10	3.93
For >10 To 50, Deduct	-0.44	
For >50 To 100, Deduct	-0.93	
For >100 To 250, Deduct	-1.87	
For >250 To 500, Deduct	-3.24	
For >500, Deduct	-4.61	
06 05 23 00-0055 EA 19-3/16" x 2-1/4" Wide, 18 Gauge, Galvanized Finish Hurricane Ties (Simpson Strong Tie® H6).....	17.22	
06 05 23 00-0056 Post Column Bases (06 05 23)		
Note: Including nails.		
06 05 23 00-0057 EA Adjustable And Standoff 4" x 4" Post Base, With Bolts (Simpson Strong Tie® ABA44).....	33.88	
06 05 23 00-0058 EA Adjustable And Standoff 4" x 6" Post Base, With Bolts (Simpson Strong Tie® ABA46).....	50.41	
06 05 23 00-0059 EA Adjustable And Standoff 6" x 6" Post Base, With Bolts (Simpson Strong Tie® ABA66).....	51.86	
06 05 23 00-0060 Post Column Caps (06 05 23)		
Note: Including nails.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 05 23 00-0061 EA 4" Beam, 4" Post Flange, 18 Gauge, Galvanized Post Cap (Simpson Strong Tie® BC4)	18.18	4.45
<i>For >10 To 50, Deduct</i>	-0.49	
<i>For >50 To 100, Deduct</i>	-1.19	
<i>For >100 To 250, Deduct</i>	-2.37	
<i>For >250 To 500, Deduct</i>	-4.05	
<i>For >500, Deduct</i>	-5.73	
06 05 23 00-0062 EA 6" Beam, 6" Post Flange, 18 Gauge, Galvanized Post Cap (Simpson Strong Tie® BC6)	38.18	4.45
<i>For >10 To 50, Deduct</i>	-0.52	
<i>For >50 To 100, Deduct</i>	-1.73	
<i>For >100 To 250, Deduct</i>	-3.46	
<i>For >250 To 500, Deduct</i>	-5.70	
<i>For >500, Deduct</i>	-7.94	
06 05 23 00-0063 EA 3-1/8" Beam, 4" Post, 7 Gauge, Gray Paint Column Cap With Bolts (Simpson Strong Tie® CC3 1/4-4)	186.54	
Note: Excludes field welding		
<i>For >10 To 50, Deduct</i>	-1.27	
<i>For >50 To 100, Deduct</i>	-6.57	
<i>For >100 To 250, Deduct</i>	-13.14	
<i>For >250 To 500, Deduct</i>	-20.97	
<i>For >500, Deduct</i>	-28.81	
<i>For Hot Dipped Galvanized, Add</i>	72.52	
06 05 23 00-0064 EA 3-1/8" Beam, 6" Post, 7 Gauge, Gray Paint Column Cap With Bolts (Simpson Strong Tie® CC3 1/4-6)	195.67	
<i>For >10 To 50, Deduct</i>	-1.43	
<i>For >50 To 100, Deduct</i>	-7.03	
<i>For >100 To 250, Deduct</i>	-14.07	
<i>For >250 To 500, Deduct</i>	-22.53	
<i>For >500, Deduct</i>	-31.00	
<i>For Hot Dipped Galvanized, Add</i>	75.20	
06 05 23 00-0065 EA 4" Beam, 4" Post, 7 Gauge, Gray Paint Column Cap With Bolts (Simpson Strong Tie® CC44)	122.19	
Note: Excludes field welding		
<i>For >10 To 50, Deduct</i>	-1.27	
<i>For >50 To 100, Deduct</i>	-4.96	
<i>For >100 To 250, Deduct</i>	-9.92	
<i>For >250 To 500, Deduct</i>	-16.15	
<i>For >500, Deduct</i>	-22.38	
<i>For Hot Dipped Galvanized, Add</i>	43.56	
06 05 23 00-0066 EA 4" Beam, 6" Post, 7 Gauge, Gray Paint Column Cap With Bolts (Simpson Strong Tie® CC46)	191.76	
<i>For >10 To 50, Deduct</i>	-1.43	
<i>For >50 To 100, Deduct</i>	-6.94	
<i>For >100 To 250, Deduct</i>	-13.87	
<i>For >250 To 500, Deduct</i>	-22.24	
<i>For >500, Deduct</i>	-30.60	
<i>For Hot Dipped Galvanized, Add</i>	73.44	
06 05 23 00-0067 EA 4" Beam, 8" Post, 7 Gauge, Gray Paint Column Cap With Bolts (Simpson Strong Tie® CC48)	200.21	
Note: Excludes field welding		
<i>For >10 To 50, Deduct</i>	-1.43	
<i>For >50 To 100, Deduct</i>	-7.15	
<i>For >100 To 250, Deduct</i>	-14.30	
<i>For >250 To 500, Deduct</i>	-22.87	
<i>For >500, Deduct</i>	-31.45	
<i>For Hot Dipped Galvanized, Add</i>	77.24	
06 05 23 00-0068 EA 6" Beam, 4" Post, 7 Gauge, Gray Paint Column Cap With Bolts (Simpson Strong Tie® CC64)	204.23	
<i>For >10 To 50, Deduct</i>	-1.37	
<i>For >50 To 100, Deduct</i>	-7.15	
<i>For >100 To 250, Deduct</i>	-14.31	
<i>For >250 To 500, Deduct</i>	-22.83	
<i>For >500, Deduct</i>	-31.35	
<i>For Hot Dipped Galvanized, Add</i>	79.61	
06 05 23 00-0069 EA 6" Beam, 6" Post, 7 Gauge, Gray Paint Column Cap With Bolts (Simpson Strong Tie® CC66)	206.76	
<i>For >10 To 50, Deduct</i>	-1.49	
<i>For >50 To 100, Deduct</i>	-7.41	
<i>For >100 To 250, Deduct</i>	-14.81	
<i>For >250 To 500, Deduct</i>	-23.71	
<i>For >500, Deduct</i>	-32.61	
<i>For Hot Dipped Galvanized, Add</i>	79.61	
06 05 23 00-0070 EA 6" Beam, 8" Post, 7 Gauge, Gray Paint Column Cap With Bolts (Simpson Strong Tie® CC68)	206.76	
<i>For >10 To 50, Deduct</i>	-1.49	
<i>For >50 To 100, Deduct</i>	-7.41	
<i>For >100 To 250, Deduct</i>	-14.81	
<i>For >250 To 500, Deduct</i>	-23.71	
<i>For >500, Deduct</i>	-32.61	
<i>For Hot Dipped Galvanized, Add</i>	79.61	
06 05 23 00-0071 EA 5-1/8" Beam, 4" Post, 3 Gauge, Gray Paint Column Cap With Bolts (Simpson Strong Tie® CC5 1/4-4)	237.38	
<i>For >10 To 50, Deduct</i>	-1.37	
<i>For >50 To 100, Deduct</i>	-7.98	
<i>For >100 To 250, Deduct</i>	-15.97	
<i>For >250 To 500, Deduct</i>	-25.31	
<i>For >500, Deduct</i>	-34.66	
<i>For Hot Dipped Galvanized, Add</i>	94.53	
06 05 23 00-0072 EA 5-1/8" Beam, 6" Post, 3 Gauge, Gray Paint Column Cap With Bolts (Simpson Strong Tie® CC5 1/4-6)	239.91	
<i>For >10 To 50, Deduct</i>	-1.49	
<i>For >50 To 100, Deduct</i>	-8.24	
<i>For >100 To 250, Deduct</i>	-16.47	
<i>For >250 To 500, Deduct</i>	-26.20	
<i>For >500, Deduct</i>	-35.93	
<i>For Hot Dipped Galvanized, Add</i>	94.53	

06 Wood, Plastics, and Composites**06 05 Common Work Results for Wood, Plastics, and Composites****06 05 23 Wood, Plastic, and Composite Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 05 23 00-0073 EA 5-1/8" Beam, 8" Post, 3 Gauge, Gray Paint Column Cap With Bolts (Simpson Strong Tie® CC5 1/4-8)	239.91	
For >10 To 50, Deduct	-1.49	
For >50 To 100, Deduct	-8.24	
For >100 To 250, Deduct	-16.47	
For >250 To 500, Deduct	-26.20	
For >500, Deduct	-35.93	
For Hot Dipped Galvanized, Add	94.53	
06 05 23 00-0074 EA 8" Beam, 4" Post, 3 Gauge, Gray Paint Column Cap With Bolts (Simpson Strong Tie® CC84).....	288.71	
For >10 To 50, Deduct	-1.37	
For >50 To 100, Deduct	-9.27	
For >100 To 250, Deduct	-18.53	
For >250 To 500, Deduct	-29.16	
For >500, Deduct	-39.80	
For Hot Dipped Galvanized, Add	117.63	
06 05 23 00-0075 EA 8" Beam, 6" Post, 3 Gauge, Gray Paint Column Cap With Bolts (Simpson Strong Tie® CC86).....	291.24	
For >10 To 50, Deduct	-1.49	
For >50 To 100, Deduct	-9.52	
For >100 To 250, Deduct	-19.04	
For >250 To 500, Deduct	-30.05	
For >500, Deduct	-41.06	
For Hot Dipped Galvanized, Add	117.63	
06 05 23 00-0076 EA 8" Beam, 8" Post, 3 Gauge, Gray Paint Column Cap With Bolts (Simpson Strong Tie® CC88).....	291.24	
For >10 To 50, Deduct	-1.49	
For >50 To 100, Deduct	-9.52	
For >100 To 250, Deduct	-19.04	
For >250 To 500, Deduct	-30.05	
For >500, Deduct	-41.06	
For Hot Dipped Galvanized, Add	117.63	
06 05 23 00-0077 EA 3-1/8" Beam, 4" Post, 7 Gauge, Gray Paint End Column Cap With Bolts (Simpson Strong Tie® ECC3 1/4-4).....	186.54	
Note: Excludes field welding		
For >10 To 50, Deduct	-1.27	
For >50 To 100, Deduct	-6.57	
For >100 To 250, Deduct	-13.14	
For >250 To 500, Deduct	-20.97	
For >500, Deduct	-28.81	
For Hot Dipped Galvanized, Add	72.52	
06 05 23 00-0078 EA 3-1/8" Beam, 6" Post, 7 Gauge, Gray Paint End Column Cap With Bolts (Simpson Strong Tie® ECC3 1/4-6).....	195.67	
For >10 To 50, Deduct	-1.43	
For >50 To 100, Deduct	-7.03	
For >100 To 250, Deduct	-14.07	
For >250 To 500, Deduct	-22.53	
For >500, Deduct	-31.00	
For Hot Dipped Galvanized, Add	75.20	
06 05 23 00-0079 EA 4" Beam, 4" Post, 7 Gauge, Gray Paint End Column Cap With Bolts (Simpson Strong Tie® ECC44).....	122.19	
Note: Excludes field welding		
For >10 To 50, Deduct	-1.27	
For >50 To 100, Deduct	-4.96	
For >100 To 250, Deduct	-9.92	
For >250 To 500, Deduct	-16.15	
For >500, Deduct	-22.38	
For Hot Dipped Galvanized, Add	43.56	
06 05 23 00-0080 EA 4" Beam, 6" Post, 7 Gauge, Gray Paint End Column Cap With Bolts (Simpson Strong Tie® ECC46).....	191.76	
For >10 To 50, Deduct	-1.43	
For >50 To 100, Deduct	-6.94	
For >100 To 250, Deduct	-13.87	
For >250 To 500, Deduct	-22.24	
For >500, Deduct	-30.60	
For Hot Dipped Galvanized, Add	73.44	
06 05 23 00-0081 EA 4" Beam, 8" Post, 7 Gauge, Gray Paint End Column Cap With Bolts (Simpson Strong Tie® ECC48).....	200.21	
Note: Excludes field welding		
For >10 To 50, Deduct	-1.43	
For >50 To 100, Deduct	-7.15	
For >100 To 250, Deduct	-14.30	
For >250 To 500, Deduct	-22.87	
For >500, Deduct	-31.45	
For Hot Dipped Galvanized, Add	77.24	
06 05 23 00-0082 EA 6" Beam, 4" Post, 7 Gauge, Gray Paint End Column Cap With Bolts (Simpson Strong Tie® ECC64).....	204.23	
For >10 To 50, Deduct	-1.37	
For >50 To 100, Deduct	-7.15	
For >100 To 250, Deduct	-14.31	
For >250 To 500, Deduct	-22.83	
For >500, Deduct	-31.35	
For Hot Dipped Galvanized, Add	79.61	
06 05 23 00-0083 EA 6" Beam, 6" Post, 7 Gauge, Gray Paint End Column Cap With Bolts (Simpson Strong Tie® ECC66).....	206.76	
For >10 To 50, Deduct	-1.49	
For >50 To 100, Deduct	-7.41	
For >100 To 250, Deduct	-14.81	
For >250 To 500, Deduct	-23.71	
For >500, Deduct	-32.61	
For Hot Dipped Galvanized, Add	79.61	
06 05 23 00-0084 EA 6" Beam, 8" Post, 7 Gauge, Gray Paint End Column Cap With Bolts (Simpson Strong Tie® ECC68).....	206.76	
For >10 To 50, Deduct	-1.49	
For >50 To 100, Deduct	-7.41	
For >100 To 250, Deduct	-14.81	
For >250 To 500, Deduct	-23.71	
For >500, Deduct	-32.61	
For Hot Dipped Galvanized, Add	79.61	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 05 23 00-0085 EA 5-1/8" Beam, 4" Post, 3 Gauge, Gray Paint End Column Cap With Bolts (Simpson Strong Tie® ECC5 1/4-4).....	237.38	
<i>For >10 To 50, Deduct</i>	-1.37	
<i>For >50 To 100, Deduct</i>	-7.98	
<i>For >100 To 250, Deduct</i>	-15.97	
<i>For >250 To 500, Deduct</i>	-25.31	
<i>For >500, Deduct</i>	-34.66	
<i>For Hot Dipped Galvanized, Add</i>	94.53	
06 05 23 00-0086 EA 5-1/8" Beam, 6" Post, 3 Gauge, Gray Paint End Column Cap With Bolts (Simpson Strong Tie® ECC5 1/4-6).....	239.91	
<i>For >10 To 50, Deduct</i>	-1.49	
<i>For >50 To 100, Deduct</i>	-8.24	
<i>For >100 To 250, Deduct</i>	-16.47	
<i>For >250 To 500, Deduct</i>	-26.20	
<i>For >500, Deduct</i>	-35.93	
<i>For Hot Dipped Galvanized, Add</i>	94.53	
06 05 23 00-0087 EA 5-1/8" Beam, 8" Post, 3 Gauge, Gray Paint End Column Cap With Bolts (Simpson Strong Tie® ECC5 1/4-8).....	239.91	
<i>For >10 To 50, Deduct</i>	-1.49	
<i>For >50 To 100, Deduct</i>	-8.24	
<i>For >100 To 250, Deduct</i>	-16.47	
<i>For >250 To 500, Deduct</i>	-26.20	
<i>For >500, Deduct</i>	-35.93	
<i>For Hot Dipped Galvanized, Add</i>	94.53	
06 05 23 00-0088 EA 8" Beam, 4" Post, 3 Gauge, Gray Paint End Column Cap With Bolts (Simpson Strong Tie® ECC84).....	288.71	
<i>For >10 To 50, Deduct</i>	-1.37	
<i>For >50 To 100, Deduct</i>	-9.27	
<i>For >100 To 250, Deduct</i>	-18.53	
<i>For >250 To 500, Deduct</i>	-29.16	
<i>For >500, Deduct</i>	-39.80	
<i>For Hot Dipped Galvanized, Add</i>	117.63	
06 05 23 00-0089 EA 8" Beam, 6" Post, 3 Gauge, Gray Paint End Column Cap With Bolts (Simpson Strong Tie® ECC86).....	291.24	
<i>For >10 To 50, Deduct</i>	-1.49	
<i>For >50 To 100, Deduct</i>	-9.52	
<i>For >100 To 250, Deduct</i>	-19.04	
<i>For >250 To 500, Deduct</i>	-30.05	
<i>For >500, Deduct</i>	-41.06	
<i>For Hot Dipped Galvanized, Add</i>	117.63	
06 05 23 00-0090 EA 8" Beam, 8" Post, 3 Gauge, Gray Paint End Column Cap With Bolts (Simpson Strong Tie® ECC88).....	291.24	
<i>For >10 To 50, Deduct</i>	-1.49	
<i>For >50 To 100, Deduct</i>	-9.52	
<i>For >100 To 250, Deduct</i>	-19.04	
<i>For >250 To 500, Deduct</i>	-30.05	
<i>For >500, Deduct</i>	-41.06	
<i>For Hot Dipped Galvanized, Add</i>	117.63	
06 05 23 00-0091 Rafter Connectors <small>(06 05 23)</small>		
06 05 23 00-0092 EA Galvanized Rigid Rafter Connector, For 2" x 6" (Simpson Strong Tie® RR).....	10.82	3.93
<i>For >10 To 50, Deduct</i>	-0.44	
<i>For >50 To 100, Deduct</i>	-0.93	
<i>For >100 To 250, Deduct</i>	-1.86	
<i>For >250 To 500, Deduct</i>	-3.22	
<i>For >500, Deduct</i>	-4.59	
06 05 23 00-0093 Bolts And Fasteners <small>(06 05 23)</small>		
06 05 23 00-0094 Carriage Bolts <small>(06 05 23 00-0093)</small>		
Note: Includes drilling of holes in any material. Includes nut and washer.		
06 05 23 00-0095 Zinc Plated Steel, Low Carbon/Grade 2, Carriage Bolts <small>(06 05 23 00-0094)</small>		
06 05 23 00-0096 EA 1/4" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Carriage Bolt.....	16.94	
<i>For >10 To 50, Deduct</i>	-0.83	
<i>For >50 To 100, Deduct</i>	-1.66	
<i>For >100 To 250, Deduct</i>	-3.32	
<i>For >250 To 500, Deduct</i>	-5.81	
<i>For >500, Deduct</i>	-8.29	
06 05 23 00-0097 EA 1/4" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Carriage Bolt.....	17.14	
<i>For >10 To 50, Deduct</i>	-0.83	
<i>For >50 To 100, Deduct</i>	-1.67	
<i>For >100 To 250, Deduct</i>	-3.33	
<i>For >250 To 500, Deduct</i>	-5.82	
<i>For >500, Deduct</i>	-8.31	
06 05 23 00-0098 EA 1/4" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Carriage Bolt.....	17.26	
<i>For >10 To 50, Deduct</i>	-0.83	
<i>For >50 To 100, Deduct</i>	-1.67	
<i>For >100 To 250, Deduct</i>	-3.34	
<i>For >250 To 500, Deduct</i>	-5.83	
<i>For >500, Deduct</i>	-8.33	
06 05 23 00-0099 EA 1/4" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Carriage Bolt.....	20.16	
<i>For >10 To 50, Deduct</i>	-0.95	
<i>For >50 To 100, Deduct</i>	-1.93	
<i>For >100 To 250, Deduct</i>	-3.87	
<i>For >250 To 500, Deduct</i>	-6.75	
<i>For >500, Deduct</i>	-9.64	

06 Wood, Plastics, and Composites**06 05 Common Work Results for Wood, Plastics, and Composites****06 05 23 Wood, Plastic, and Composite Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 05 23 00-0100 EA 3/8" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Carriage Bolt	18.74	
For >10 To 50, Deduct	-0.89	
For >50 To 100, Deduct	-1.80	
For >100 To 250, Deduct	-3.60	
For >250 To 500, Deduct	-6.30	
For >500, Deduct	-8.99	
06 05 23 00-0101 EA 3/8" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Carriage Bolt	20.33	
For >10 To 50, Deduct	-0.95	
For >50 To 100, Deduct	-1.94	
For >100 To 250, Deduct	-3.87	
For >250 To 500, Deduct	-6.76	
For >500, Deduct	-9.65	
06 05 23 00-0102 EA 3/8" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Carriage Bolt	20.64	
For >10 To 50, Deduct	-0.95	
For >50 To 100, Deduct	-1.94	
For >100 To 250, Deduct	-3.89	
For >250 To 500, Deduct	-6.79	
For >500, Deduct	-9.68	
06 05 23 00-0103 EA 3/8" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Carriage Bolt	24.68	
For >10 To 50, Deduct	-1.14	
For >50 To 100, Deduct	-2.33	
For >100 To 250, Deduct	-4.66	
For >250 To 500, Deduct	-8.14	
For >500, Deduct	-11.61	
06 05 23 00-0104 EA 3/8" Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Carriage Bolt	26.88	
For >10 To 50, Deduct	-1.21	
For >50 To 100, Deduct	-2.48	
For >100 To 250, Deduct	-4.96	
For >250 To 500, Deduct	-8.65	
For >500, Deduct	-12.34	
06 05 23 00-0105 EA 3/8" Diameter x 12" Length, Zinc Plated Steel, Low Carbon/Grade 2, Carriage Bolt	30.36	
For >10 To 50, Deduct	-1.33	
For >50 To 100, Deduct	-2.76	
For >100 To 250, Deduct	-5.52	
For >250 To 500, Deduct	-9.61	
For >500, Deduct	-13.70	
06 05 23 00-0106 EA 1/2" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Carriage Bolt	20.99	
For >10 To 50, Deduct	-0.95	
For >50 To 100, Deduct	-1.95	
For >100 To 250, Deduct	-3.91	
For >250 To 500, Deduct	-6.81	
For >500, Deduct	-9.72	
06 05 23 00-0107 EA 1/2" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Carriage Bolt	23.07	
For >10 To 50, Deduct	-1.02	
For >50 To 100, Deduct	-2.10	
For >100 To 250, Deduct	-4.20	
For >250 To 500, Deduct	-7.32	
For >500, Deduct	-10.44	
06 05 23 00-0108 EA 1/2" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Carriage Bolt	24.60	
For >10 To 50, Deduct	-1.08	
For >50 To 100, Deduct	-2.23	
For >100 To 250, Deduct	-4.47	
For >250 To 500, Deduct	-7.78	
For >500, Deduct	-11.10	
06 05 23 00-0109 EA 1/2" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Carriage Bolt	27.58	
For >10 To 50, Deduct	-1.21	
For >50 To 100, Deduct	-2.50	
For >100 To 250, Deduct	-5.00	
For >250 To 500, Deduct	-8.70	
For >500, Deduct	-12.41	
06 05 23 00-0110 EA 1/2" Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Carriage Bolt	32.48	
For >10 To 50, Deduct	-1.40	
For >50 To 100, Deduct	-2.91	
For >100 To 250, Deduct	-5.82	
For >250 To 500, Deduct	-10.12	
For >500, Deduct	-14.42	
06 05 23 00-0111 EA 1/2" Diameter x 12" Length, Zinc Plated Steel, Low Carbon/Grade 2, Carriage Bolt	36.47	
For >10 To 50, Deduct	-1.52	
For >50 To 100, Deduct	-3.20	
For >100 To 250, Deduct	-6.39	
For >250 To 500, Deduct	-11.11	
For >500, Deduct	-15.84	
06 05 23 00-0112 EA 3/4" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Carriage Bolt	29.05	
For >10 To 50, Deduct	-1.14	
For >50 To 100, Deduct	-2.44	
For >100 To 250, Deduct	-4.88	
For >250 To 500, Deduct	-8.47	
For >500, Deduct	-12.05	
06 05 23 00-0113 EA 3/4" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Carriage Bolt	31.57	
For >10 To 50, Deduct	-1.21	
For >50 To 100, Deduct	-2.60	
For >100 To 250, Deduct	-5.20	
For >250 To 500, Deduct	-9.00	
For >500, Deduct	-12.81	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 05 23 00-0114 EA 3/4" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Carriage Bolt	37.94	
<i>For >10 To 50, Deduct</i>	-1.40	
<i>For >50 To 100, Deduct</i>	-3.04	
<i>For >100 To 250, Deduct</i>	-6.09	
<i>For >250 To 500, Deduct</i>	-10.53	
<i>For >500, Deduct</i>	-14.97	
06 05 23 00-0115 EA 3/4" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Carriage Bolt	42.91	
<i>For >10 To 50, Deduct</i>	-1.46	
<i>For >50 To 100, Deduct</i>	-3.26	
<i>For >100 To 250, Deduct</i>	-6.53	
<i>For >250 To 500, Deduct</i>	-11.25	
<i>For >500, Deduct</i>	-15.98	
06 05 23 00-0116 EA 3/4" Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Carriage Bolt	46.59	
<i>For >10 To 50, Deduct</i>	-1.59	
<i>For >50 To 100, Deduct</i>	-3.55	
<i>For >100 To 250, Deduct</i>	-7.09	
<i>For >250 To 500, Deduct</i>	-12.23	
<i>For >500, Deduct</i>	-17.36	
06 05 23 00-0117 EA 3/4" Diameter x 12" Length, Zinc Plated Steel, Low Carbon/Grade 2, Carriage Bolt	47.44	
<i>For >10 To 50, Deduct</i>	-1.65	
<i>For >50 To 100, Deduct</i>	-3.66	
<i>For >100 To 250, Deduct</i>	-7.33	
<i>For >250 To 500, Deduct</i>	-12.64	
<i>For >500, Deduct</i>	-17.95	
06 05 23 00-0118 Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Carriage Bolts <small>(06 05 23 00-0094)</small>		
06 05 23 00-0119 EA 1/4" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Carriage Bolt	17.29	
<i>For >10 To 50, Deduct</i>	-0.83	
<i>For >50 To 100, Deduct</i>	-1.67	
<i>For >100 To 250, Deduct</i>	-3.34	
<i>For >250 To 500, Deduct</i>	-5.83	
<i>For >500, Deduct</i>	-8.33	
06 05 23 00-0120 EA 1/4" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Carriage Bolt	17.65	
<i>For >10 To 50, Deduct</i>	-0.83	
<i>For >50 To 100, Deduct</i>	-1.68	
<i>For >100 To 250, Deduct</i>	-3.36	
<i>For >250 To 500, Deduct</i>	-5.86	
<i>For >500, Deduct</i>	-8.37	
06 05 23 00-0121 EA 1/4" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Carriage Bolt	18.06	
<i>For >10 To 50, Deduct</i>	-0.83	
<i>For >50 To 100, Deduct</i>	-1.69	
<i>For >100 To 250, Deduct</i>	-3.38	
<i>For >250 To 500, Deduct</i>	-5.89	
<i>For >500, Deduct</i>	-8.41	
06 05 23 00-0122 EA 1/4" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Carriage Bolt	21.51	
<i>For >10 To 50, Deduct</i>	-0.95	
<i>For >50 To 100, Deduct</i>	-1.97	
<i>For >100 To 250, Deduct</i>	-3.93	
<i>For >250 To 500, Deduct</i>	-6.85	
<i>For >500, Deduct</i>	-9.77	
06 05 23 00-0123 EA 3/8" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Carriage Bolt	19.23	
<i>For >10 To 50, Deduct</i>	-0.89	
<i>For >50 To 100, Deduct</i>	-1.81	
<i>For >100 To 250, Deduct</i>	-3.63	
<i>For >250 To 500, Deduct</i>	-6.33	
<i>For >500, Deduct</i>	-9.04	
06 05 23 00-0124 EA 3/8" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Carriage Bolt	21.09	
<i>For >10 To 50, Deduct</i>	-0.95	
<i>For >50 To 100, Deduct</i>	-1.96	
<i>For >100 To 250, Deduct</i>	-3.91	
<i>For >250 To 500, Deduct</i>	-6.82	
<i>For >500, Deduct</i>	-9.73	
06 05 23 00-0125 EA 3/8" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Carriage Bolt	21.54	
<i>For >10 To 50, Deduct</i>	-0.95	
<i>For >50 To 100, Deduct</i>	-1.97	
<i>For >100 To 250, Deduct</i>	-3.93	
<i>For >250 To 500, Deduct</i>	-6.85	
<i>For >500, Deduct</i>	-9.77	
06 05 23 00-0126 EA 3/8" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Carriage Bolt	26.04	
<i>For >10 To 50, Deduct</i>	-1.14	
<i>For >50 To 100, Deduct</i>	-2.37	
<i>For >100 To 250, Deduct</i>	-4.73	
<i>For >250 To 500, Deduct</i>	-8.24	
<i>For >500, Deduct</i>	-11.75	
06 05 23 00-0127 EA 3/8" Diameter x 10" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Carriage Bolt	28.41	
<i>For >10 To 50, Deduct</i>	-1.21	
<i>For >50 To 100, Deduct</i>	-2.52	
<i>For >100 To 250, Deduct</i>	-5.04	
<i>For >250 To 500, Deduct</i>	-8.77	
<i>For >500, Deduct</i>	-12.49	

06 Wood, Plastics, and Composites**06 05 Common Work Results for Wood, Plastics, and Composites****06 05 23 Wood, Plastic, and Composite Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 05 23 00-0128 EA 3/8" Diameter x 12" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Carriage Bolt	31.77	
For>10 To 50, Deduct	-1.33	
For>50 To 100, Deduct	-2.79	
For>100 To 250, Deduct	-5.59	
For>250 To 500, Deduct	-9.72	
For>500, Deduct	-13.85	
06 05 23 00-0129 EA 1/2" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Carriage Bolt	22.13	
For>10 To 50, Deduct	-0.95	
For>50 To 100, Deduct	-1.98	
For>100 To 250, Deduct	-3.96	
For>250 To 500, Deduct	-6.90	
For>500, Deduct	-9.83	
06 05 23 00-0130 EA 1/2" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Carriage Bolt	23.97	
For>10 To 50, Deduct	-1.02	
For>50 To 100, Deduct	-2.12	
For>100 To 250, Deduct	-4.25	
For>250 To 500, Deduct	-7.39	
For>500, Deduct	-10.53	
06 05 23 00-0131 EA 1/2" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Carriage Bolt	25.67	
For>10 To 50, Deduct	-1.08	
For>50 To 100, Deduct	-2.26	
For>100 To 250, Deduct	-4.52	
For>250 To 500, Deduct	-7.86	
For>500, Deduct	-11.20	
06 05 23 00-0132 EA 1/2" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Carriage Bolt	29.12	
For>10 To 50, Deduct	-1.21	
For>50 To 100, Deduct	-2.54	
For>100 To 250, Deduct	-5.08	
For>250 To 500, Deduct	-8.82	
For>500, Deduct	-12.56	
06 05 23 00-0133 EA 1/2" Diameter x 10" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Carriage Bolt	33.98	
For>10 To 50, Deduct	-1.40	
For>50 To 100, Deduct	-2.95	
For>100 To 250, Deduct	-5.89	
For>250 To 500, Deduct	-10.23	
For>500, Deduct	-14.57	
06 05 23 00-0134 EA 1/2" Diameter x 12" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Carriage Bolt	37.63	
For>10 To 50, Deduct	-1.52	
For>50 To 100, Deduct	-3.23	
For>100 To 250, Deduct	-6.45	
For>250 To 500, Deduct	-11.20	
For>500, Deduct	-15.95	
06 05 23 00-0135 EA 3/4" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Carriage Bolt	32.47	
For>10 To 50, Deduct	-1.14	
For>50 To 100, Deduct	-2.53	
For>100 To 250, Deduct	-5.05	
For>250 To 500, Deduct	-8.72	
For>500, Deduct	-12.39	
06 05 23 00-0136 EA 3/4" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Carriage Bolt	33.96	
For>10 To 50, Deduct	-1.21	
For>50 To 100, Deduct	-2.66	
For>100 To 250, Deduct	-5.32	
For>250 To 500, Deduct	-9.18	
For>500, Deduct	-13.05	
06 05 23 00-0137 EA 3/4" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Carriage Bolt	39.64	
For>10 To 50, Deduct	-1.40	
For>50 To 100, Deduct	-3.09	
For>100 To 250, Deduct	-6.17	
For>250 To 500, Deduct	-10.66	
For>500, Deduct	-15.14	
06 05 23 00-0138 EA 3/4" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Carriage Bolt	42.78	
For>10 To 50, Deduct	-1.46	
For>50 To 100, Deduct	-3.26	
For>100 To 250, Deduct	-6.52	
For>250 To 500, Deduct	-11.24	
For>500, Deduct	-15.96	
06 05 23 00-0139 EA 3/4" Diameter x 10" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Carriage Bolt	48.80	
For>10 To 50, Deduct	-1.59	
For>50 To 100, Deduct	-3.60	
For>100 To 250, Deduct	-7.20	
For>250 To 500, Deduct	-12.39	
For>500, Deduct	-17.58	
06 05 23 00-0140 EA 3/4" Diameter x 12" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Carriage Bolt	52.04	
For>10 To 50, Deduct	-1.65	
For>50 To 100, Deduct	-3.78	
For>100 To 250, Deduct	-7.56	
For>250 To 500, Deduct	-12.98	
For>500, Deduct	-18.41	

06 05 23 00-0141 304/18-8 Stainless Steel, Carriage Bolts (06 05 23 00-0094)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 05 23 00-0142 EA 1/4" Diameter x 2" Length, 304/18-8 Stainless Steel, Carriage Bolt	18.53	
<i>For >10 To 50, Deduct</i>	-0.83	
<i>For >50 To 100, Deduct</i>	-1.70	
<i>For >100 To 250, Deduct</i>	-3.40	
<i>For >250 To 500, Deduct</i>	-5.93	
<i>For >500, Deduct</i>	-8.45	
06 05 23 00-0143 EA 1/4" Diameter x 4" Length, 304/18-8 Stainless Steel, Carriage Bolt	20.74	
<i>For >10 To 50, Deduct</i>	-0.83	
<i>For >50 To 100, Deduct</i>	-1.76	
<i>For >100 To 250, Deduct</i>	-3.51	
<i>For >250 To 500, Deduct</i>	-6.09	
<i>For >500, Deduct</i>	-8.67	
06 05 23 00-0144 EA 1/4" Diameter x 6" Length, 304/18-8 Stainless Steel, Carriage Bolt	22.20	
<i>For >10 To 50, Deduct</i>	-0.83	
<i>For >50 To 100, Deduct</i>	-1.79	
<i>For >100 To 250, Deduct</i>	-3.59	
<i>For >250 To 500, Deduct</i>	-6.20	
<i>For >500, Deduct</i>	-8.82	
06 05 23 00-0145 EA 1/4" Diameter x 8" Length, 304/18-8 Stainless Steel, Carriage Bolt	40.38	
<i>For >10 To 50, Deduct</i>	-0.95	
<i>For >50 To 100, Deduct</i>	-2.44	
<i>For >100 To 250, Deduct</i>	-4.88	
<i>For >250 To 500, Deduct</i>	-8.27	
<i>For >500, Deduct</i>	-11.66	
06 05 23 00-0146 EA 3/8" Diameter x 2" Length, 304/18-8 Stainless Steel, Carriage Bolt	21.86	
<i>For >10 To 50, Deduct</i>	-0.89	
<i>For >50 To 100, Deduct</i>	-1.88	
<i>For >100 To 250, Deduct</i>	-3.76	
<i>For >250 To 500, Deduct</i>	-6.53	
<i>For >500, Deduct</i>	-9.30	
06 05 23 00-0147 EA 3/8" Diameter x 4" Length, 304/18-8 Stainless Steel, Carriage Bolt	26.35	
<i>For >10 To 50, Deduct</i>	-0.95	
<i>For >50 To 100, Deduct</i>	-2.09	
<i>For >100 To 250, Deduct</i>	-4.18	
<i>For >250 To 500, Deduct</i>	-7.22	
<i>For >500, Deduct</i>	-10.26	
06 05 23 00-0148 EA 3/8" Diameter x 6" Length, 304/18-8 Stainless Steel, Carriage Bolt	27.05	
<i>For >10 To 50, Deduct</i>	-0.95	
<i>For >50 To 100, Deduct</i>	-2.11	
<i>For >100 To 250, Deduct</i>	-4.21	
<i>For >250 To 500, Deduct</i>	-7.27	
<i>For >500, Deduct</i>	-10.33	
06 05 23 00-0149 EA 3/8" Diameter x 8" Length, 304/18-8 Stainless Steel, Carriage Bolt	54.00	
<i>For >10 To 50, Deduct</i>	-1.14	
<i>For >50 To 100, Deduct</i>	-3.06	
<i>For >100 To 250, Deduct</i>	-6.13	
<i>For >250 To 500, Deduct</i>	-10.34	
<i>For >500, Deduct</i>	-14.54	
06 05 23 00-0150 EA 3/8" Diameter x 10" Length, 304/18-8 Stainless Steel, Carriage Bolt	66.82	
<i>For >10 To 50, Deduct</i>	-1.21	
<i>For >50 To 100, Deduct</i>	-3.48	
<i>For >100 To 250, Deduct</i>	-6.96	
<i>For >250 To 500, Deduct</i>	-11.65	
<i>For >500, Deduct</i>	-16.33	
06 05 23 00-0151 EA 3/8" Diameter x 12" Length, 304/18-8 Stainless Steel, Carriage Bolt	74.98	
<i>For >10 To 50, Deduct</i>	-1.33	
<i>For >50 To 100, Deduct</i>	-3.87	
<i>For >100 To 250, Deduct</i>	-7.75	
<i>For >250 To 500, Deduct</i>	-12.96	
<i>For >500, Deduct</i>	-18.17	
06 05 23 00-0152 EA 1/2" Diameter x 2" Length, 304/18-8 Stainless Steel, Carriage Bolt	28.94	
<i>For >10 To 50, Deduct</i>	-0.95	
<i>For >50 To 100, Deduct</i>	-2.15	
<i>For >100 To 250, Deduct</i>	-4.30	
<i>For >250 To 500, Deduct</i>	-7.41	
<i>For >500, Deduct</i>	-10.51	
06 05 23 00-0153 EA 1/2" Diameter x 4" Length, 304/18-8 Stainless Steel, Carriage Bolt	33.30	
<i>For >10 To 50, Deduct</i>	-1.02	
<i>For >50 To 100, Deduct</i>	-2.36	
<i>For >100 To 250, Deduct</i>	-4.71	
<i>For >250 To 500, Deduct</i>	-8.09	
<i>For >500, Deduct</i>	-11.46	
06 05 23 00-0154 EA 1/2" Diameter x 6" Length, 304/18-8 Stainless Steel, Carriage Bolt	41.31	
<i>For >10 To 50, Deduct</i>	-1.08	
<i>For >50 To 100, Deduct</i>	-2.65	
<i>For >100 To 250, Deduct</i>	-5.30	
<i>For >250 To 500, Deduct</i>	-9.04	
<i>For >500, Deduct</i>	-12.77	
06 05 23 00-0155 EA 1/2" Diameter x 8" Length, 304/18-8 Stainless Steel, Carriage Bolt	68.86	
<i>For >10 To 50, Deduct</i>	-1.21	
<i>For >50 To 100, Deduct</i>	-3.53	
<i>For >100 To 250, Deduct</i>	-7.06	
<i>For >250 To 500, Deduct</i>	-11.80	
<i>For >500, Deduct</i>	-16.54	

06 Wood, Plastics, and Composites**06 05 Common Work Results for Wood, Plastics, and Composites****06 05 23 Wood, Plastic, and Composite Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 05 23 00-0156 EA 1/2" Diameter x 10" Length, 304/18-8 Stainless Steel, Carriage Bolt.....	77.57	
For>10 To 50, Deduct	-1.40	
For>50 To 100, Deduct	-4.03	
For>100 To 250, Deduct	-8.07	
For>250 To 500, Deduct	-13.50	
For>500, Deduct	-18.93	
06 05 23 00-0157 EA 1/2" Diameter x 12" Length, 304/18-8 Stainless Steel, Carriage Bolt.....	125.96	
For>10 To 50, Deduct	-1.52	
For>50 To 100, Deduct	-5.43	
For>100 To 250, Deduct	-10.87	
For>250 To 500, Deduct	-17.83	
For>500, Deduct	-24.78	
06 05 23 00-0158 EA 3/4" Diameter x 4" Length, 304/18-8 Stainless Steel, Carriage Bolt	97.69	
For>10 To 50, Deduct	-1.21	
For>50 To 100, Deduct	-4.25	
For>100 To 250, Deduct	-8.50	
For>250 To 500, Deduct	-13.96	
For>500, Deduct	-19.42	
06 05 23 00-0159 EA 3/4" Diameter x 6" Length, 304/18-8 Stainless Steel, Carriage Bolt	140.27	
For>10 To 50, Deduct	-1.40	
For>50 To 100, Deduct	-5.60	
For>100 To 250, Deduct	-11.20	
For>250 To 500, Deduct	-18.20	
For>500, Deduct	-25.20	
06 05 23 00-0160 EA 3/4" Diameter x 8" Length, 304/18-8 Stainless Steel, Carriage Bolt	155.98	
For>10 To 50, Deduct	-1.46	
For>50 To 100, Deduct	-6.09	
For>100 To 250, Deduct	-12.18	
For>250 To 500, Deduct	-19.73	
For>500, Deduct	-27.28	
06 05 23 00-0161 EA 3/4" Diameter x 10" Length, 304/18-8 Stainless Steel, Carriage Bolt.....	233.80	
For>10 To 50, Deduct	-1.59	
For>50 To 100, Deduct	-8.23	
For>100 To 250, Deduct	-16.45	
For>250 To 500, Deduct	-26.27	
For>500, Deduct	-36.08	
06 05 23 00-0162 EA 3/4" Diameter x 12" Length, 304/18-8 Stainless Steel, Carriage Bolt.....	246.05	
For>10 To 50, Deduct	-1.65	
For>50 To 100, Deduct	-8.63	
For>100 To 250, Deduct	-17.26	
For>250 To 500, Deduct	-27.53	
For>500, Deduct	-37.81	
06 05 23 00-0163 316 Stainless Steel, Carriage Bolts <small>(06 05 23 00-0094)</small>.....	28.78	
06 05 23 00-0164 EA 1/4" Diameter x 2" Length, 316 Stainless Steel, Carriage Bolt.....	28.78	
For>10 To 50, Deduct	-0.83	
For>50 To 100, Deduct	-1.96	
For>100 To 250, Deduct	-3.91	
For>250 To 500, Deduct	-6.70	
For>500, Deduct	-9.48	
06 05 23 00-0165 EA 1/4" Diameter x 4" Length, 316 Stainless Steel, Carriage Bolt.....	32.67	
For>10 To 50, Deduct	-0.83	
For>50 To 100, Deduct	-2.05	
For>100 To 250, Deduct	-4.11	
For>250 To 500, Deduct	-6.99	
For>500, Deduct	-9.87	
06 05 23 00-0166 EA 3/8" Diameter x 2" Length, 316 Stainless Steel, Carriage Bolt.....	35.28	
For>10 To 50, Deduct	-0.89	
For>50 To 100, Deduct	-2.22	
For>100 To 250, Deduct	-4.43	
For>250 To 500, Deduct	-7.54	
For>500, Deduct	-10.64	
06 05 23 00-0167 EA 3/8" Diameter x 4" Length, 316 Stainless Steel, Carriage Bolt.....	41.95	
For>10 To 50, Deduct	-0.95	
For>50 To 100, Deduct	-2.48	
For>100 To 250, Deduct	-4.96	
For>250 To 500, Deduct	-8.39	
For>500, Deduct	-11.82	
06 05 23 00-0168 EA 1/2" Diameter x 2" Length, 316 Stainless Steel, Carriage Bolt.....	59.28	
For>10 To 50, Deduct	-0.95	
For>50 To 100, Deduct	-2.91	
For>100 To 250, Deduct	-5.82	
For>250 To 500, Deduct	-9.68	
For>500, Deduct	-13.55	
06 05 23 00-0169 EA 1/2" Diameter x 4" Length, 316 Stainless Steel, Carriage Bolt.....	64.75	
For>10 To 50, Deduct	-1.02	
For>50 To 100, Deduct	-3.14	
For>100 To 250, Deduct	-6.29	
For>250 To 500, Deduct	-10.44	
For>500, Deduct	-14.60	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 05 23 00-0170 EA 1/2" Diameter x 6" Length, 316 Stainless Steel, Carriage Bolt.....	69.89	
<i>For >10 To 50, Deduct</i>	-1.08	
<i>For >50 To 100, Deduct</i>	-3.37	
<i>For >100 To 250, Deduct</i>	-6.73	
<i>For >250 To 500, Deduct</i>	-11.18	
<i>For >500, Deduct</i>	-15.63	
06 05 23 00-0171 Hex Lag Bolts <small>(06 05 23 00-0093)</small>		
Note: Includes drilling of holes in any material.		
06 05 23 00-0172 Zinc Plated Steel, Hex Lag Bolts <small>(06 05 23 00-0171)</small>		
06 05 23 00-0173 EA 1/4" Diameter x 2" Length, Zinc Plated Steel, Hex Lag Bolt	16.14	
<i>For >10 To 50, Deduct</i>	-0.79	
<i>For >50 To 100, Deduct</i>	-1.59	
<i>For >100 To 250, Deduct</i>	-3.19	
<i>For >250 To 500, Deduct</i>	-5.57	
<i>For >500, Deduct</i>	-7.96	
06 05 23 00-0174 EA 1/4" Diameter x 4" Length, Zinc Plated Steel, Hex Lag Bolt	16.31	
<i>For >10 To 50, Deduct</i>	-0.79	
<i>For >50 To 100, Deduct</i>	-1.60	
<i>For >100 To 250, Deduct</i>	-3.20	
<i>For >250 To 500, Deduct</i>	-5.59	
<i>For >500, Deduct</i>	-7.98	
06 05 23 00-0175 EA 1/4" Diameter x 6" Length, Zinc Plated Steel, Hex Lag Bolt	16.65	
<i>For >10 To 50, Deduct</i>	-0.79	
<i>For >50 To 100, Deduct</i>	-1.61	
<i>For >100 To 250, Deduct</i>	-3.21	
<i>For >250 To 500, Deduct</i>	-5.61	
<i>For >500, Deduct</i>	-8.01	
06 05 23 00-0176 EA 3/8" Diameter x 2" Length, Zinc Plated Steel, Hex Lag Bolt	17.81	
<i>For >10 To 50, Deduct</i>	-0.87	
<i>For >50 To 100, Deduct</i>	-1.74	
<i>For >100 To 250, Deduct</i>	-3.49	
<i>For >250 To 500, Deduct</i>	-6.09	
<i>For >500, Deduct</i>	-8.70	
06 05 23 00-0177 EA 3/8" Diameter x 4" Length, Zinc Plated Steel, Hex Lag Bolt	19.38	
<i>For >10 To 50, Deduct</i>	-0.93	
<i>For >50 To 100, Deduct</i>	-1.88	
<i>For >100 To 250, Deduct</i>	-3.75	
<i>For >250 To 500, Deduct</i>	-6.55	
<i>For >500, Deduct</i>	-9.35	
06 05 23 00-0178 EA 3/8" Diameter x 6" Length, Zinc Plated Steel, Hex Lag Bolt	19.76	
<i>For >10 To 50, Deduct</i>	-0.93	
<i>For >50 To 100, Deduct</i>	-1.88	
<i>For >100 To 250, Deduct</i>	-3.77	
<i>For >250 To 500, Deduct</i>	-6.58	
<i>For >500, Deduct</i>	-9.39	
06 05 23 00-0179 EA 3/8" Diameter x 8" Length, Zinc Plated Steel, Hex Lag Bolt	24.23	
<i>For >10 To 50, Deduct</i>	-1.11	
<i>For >50 To 100, Deduct</i>	-2.27	
<i>For >100 To 250, Deduct</i>	-4.55	
<i>For >250 To 500, Deduct</i>	-7.93	
<i>For >500, Deduct</i>	-11.32	
06 05 23 00-0180 EA 3/8" Diameter x 10" Length, Zinc Plated Steel, Hex Lag Bolt.....	25.68	
<i>For >10 To 50, Deduct</i>	-1.17	
<i>For >50 To 100, Deduct</i>	-2.40	
<i>For >100 To 250, Deduct</i>	-4.80	
<i>For >250 To 500, Deduct</i>	-8.38	
<i>For >500, Deduct</i>	-11.96	
06 05 23 00-0181 EA 1/2" Diameter x 2" Length, Zinc Plated Steel, Hex Lag Bolt	19.77	
<i>For >10 To 50, Deduct</i>	-0.93	
<i>For >50 To 100, Deduct</i>	-1.90	
<i>For >100 To 250, Deduct</i>	-3.79	
<i>For >250 To 500, Deduct</i>	-6.62	
<i>For >500, Deduct</i>	-9.45	
06 05 23 00-0182 EA 1/2" Diameter x 4" Length, Zinc Plated Steel, Hex Lag Bolt	21.55	
<i>For >10 To 50, Deduct</i>	-1.00	
<i>For >50 To 100, Deduct</i>	-2.03	
<i>For >100 To 250, Deduct</i>	-4.07	
<i>For >250 To 500, Deduct</i>	-7.09	
<i>For >500, Deduct</i>	-10.12	
06 05 23 00-0183 EA 1/2" Diameter x 6" Length, Zinc Plated Steel, Hex Lag Bolt	23.50	
<i>For >10 To 50, Deduct</i>	-1.06	
<i>For >50 To 100, Deduct</i>	-2.17	
<i>For >100 To 250, Deduct</i>	-4.35	
<i>For >250 To 500, Deduct</i>	-7.58	
<i>For >500, Deduct</i>	-10.81	
06 05 23 00-0184 EA 1/2" Diameter x 8" Length, Zinc Plated Steel, Hex Lag Bolt	26.79	
<i>For >10 To 50, Deduct</i>	-1.18	
<i>For >50 To 100, Deduct</i>	-2.44	
<i>For >100 To 250, Deduct</i>	-4.89	
<i>For >250 To 500, Deduct</i>	-8.51	
<i>For >500, Deduct</i>	-12.14	

06 Wood, Plastics, and Composites**06 05 Common Work Results for Wood, Plastics, and Composites****06 05 23 Wood, Plastic, and Composite Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 05 23 00-0185 EA 1/2" Diameter x 10" Length, Zinc Plated Steel, Hex Lag Bolt.....	31.62	
For>10 To 50, Deduct	-1.37	
For>50 To 100, Deduct	-2.84	
For>100 To 250, Deduct	-5.69	
For>250 To 500, Deduct	-9.90	
For>500, Deduct	-14.12	
06 05 23 00-0186 EA 1/2" Diameter x 12" Length, Zinc Plated Steel, Hex Lag Bolt.....	34.50	
For>10 To 50, Deduct	-1.49	
For>50 To 100, Deduct	-3.10	
For>100 To 250, Deduct	-6.21	
For>250 To 500, Deduct	-10.80	
For>500, Deduct	-15.40	
06 05 23 00-0187 EA 3/4" Diameter x 4" Length, Zinc Plated Steel, Hex Lag Bolt.....	29.08	
For>10 To 50, Deduct	-1.18	
For>50 To 100, Deduct	-2.50	
For>100 To 250, Deduct	-5.00	
For>250 To 500, Deduct	-8.68	
For>500, Deduct	-12.37	
06 05 23 00-0188 EA 3/4" Diameter x 6" Length, Zinc Plated Steel, Hex Lag Bolt.....	34.79	
For>10 To 50, Deduct	-1.37	
For>50 To 100, Deduct	-2.92	
For>100 To 250, Deduct	-5.85	
For>250 To 500, Deduct	-10.14	
For>500, Deduct	-14.44	
06 05 23 00-0189 EA 3/4" Diameter x 8" Length, Zinc Plated Steel, Hex Lag Bolt.....	38.64	
For>10 To 50, Deduct	-1.43	
For>50 To 100, Deduct	-3.11	
For>100 To 250, Deduct	-6.23	
For>250 To 500, Deduct	-10.77	
For>500, Deduct	-15.32	
06 05 23 00-0190 EA 3/4" Diameter x 10" Length, Zinc Plated Steel, Hex Lag Bolt.....	43.52	
For>10 To 50, Deduct	-1.56	
For>50 To 100, Deduct	-3.42	
For>100 To 250, Deduct	-6.85	
For>250 To 500, Deduct	-11.82	
For>500, Deduct	-16.80	
06 05 23 00-0191 EA 3/4" Diameter x 12" Length, Zinc Plated Steel, Hex Lag Bolt.....	48.95	
For>10 To 50, Deduct	-1.62	
For>50 To 100, Deduct	-3.65	
For>100 To 250, Deduct	-7.30	
For>250 To 500, Deduct	-12.57	
For>500, Deduct	-17.84	
06 05 23 00-0192 Hot Dipped Galvanized Steel, Hex Lag Bolts (06 05 23 00-0171)		
06 05 23 00-0193 EA 1/4" Diameter x 2" Length, Hot Dipped Galvanized Steel, Hex Lag Bolt.....	16.22	
For>10 To 50, Deduct	-0.79	
For>50 To 100, Deduct	-1.60	
For>100 To 250, Deduct	-3.19	
For>250 To 500, Deduct	-5.58	
For>500, Deduct	-7.97	
06 05 23 00-0194 EA 1/4" Diameter x 4" Length, Hot Dipped Galvanized Steel, Hex Lag Bolt.....	16.48	
For>10 To 50, Deduct	-0.79	
For>50 To 100, Deduct	-1.60	
For>100 To 250, Deduct	-3.20	
For>250 To 500, Deduct	-5.60	
For>500, Deduct	-8.00	
06 05 23 00-0195 EA 1/4" Diameter x 6" Length, Hot Dipped Galvanized Steel, Hex Lag Bolt.....	16.75	
For>10 To 50, Deduct	-0.79	
For>50 To 100, Deduct	-1.61	
For>100 To 250, Deduct	-3.22	
For>250 To 500, Deduct	-5.62	
For>500, Deduct	-8.02	
06 05 23 00-0196 EA 3/8" Diameter x 2" Length, Hot Dipped Galvanized Steel, Hex Lag Bolt.....	17.96	
For>10 To 50, Deduct	-0.87	
For>50 To 100, Deduct	-1.75	
For>100 To 250, Deduct	-3.49	
For>250 To 500, Deduct	-6.10	
For>500, Deduct	-8.72	
06 05 23 00-0197 EA 3/8" Diameter x 4" Length, Hot Dipped Galvanized Steel, Hex Lag Bolt.....	19.61	
For>10 To 50, Deduct	-0.93	
For>50 To 100, Deduct	-1.88	
For>100 To 250, Deduct	-3.76	
For>250 To 500, Deduct	-6.57	
For>500, Deduct	-9.38	
06 05 23 00-0198 EA 3/8" Diameter x 6" Length, Hot Dipped Galvanized Steel, Hex Lag Bolt.....	20.03	
For>10 To 50, Deduct	-0.93	
For>50 To 100, Deduct	-1.89	
For>100 To 250, Deduct	-3.78	
For>250 To 500, Deduct	-6.60	
For>500, Deduct	-9.42	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 05 23 00-0199 EA 3/8" Diameter x 8" Length, Hot Dipped Galvanized Steel, Hex Lag Bolt.....	24.74	
<i>For >10 To 50, Deduct</i>	-1.11	
<i>For >50 To 100, Deduct</i>	-2.29	
<i>For >100 To 250, Deduct</i>	-4.57	
<i>For >250 To 500, Deduct</i>	-7.97	
<i>For >500, Deduct</i>	-11.37	
06 05 23 00-0200 EA 3/8" Diameter x 10" Length, Hot Dipped Galvanized Steel, Hex Lag Bolt.....	26.54	
<i>For >10 To 50, Deduct</i>	-1.17	
<i>For >50 To 100, Deduct</i>	-2.42	
<i>For >100 To 250, Deduct</i>	-4.85	
<i>For >250 To 500, Deduct</i>	-8.44	
<i>For >500, Deduct</i>	-12.04	
06 05 23 00-0201 EA 1/2" Diameter x 2" Length, Hot Dipped Galvanized Steel, Hex Lag Bolt.....	20.15	
<i>For >10 To 50, Deduct</i>	-0.93	
<i>For >50 To 100, Deduct</i>	-1.90	
<i>For >100 To 250, Deduct</i>	-3.81	
<i>For >250 To 500, Deduct</i>	-6.65	
<i>For >500, Deduct</i>	-9.49	
06 05 23 00-0202 EA 1/2" Diameter x 4" Length, Hot Dipped Galvanized Steel, Hex Lag Bolt.....	21.77	
<i>For >10 To 50, Deduct</i>	-1.00	
<i>For >50 To 100, Deduct</i>	-2.04	
<i>For >100 To 250, Deduct</i>	-4.08	
<i>For >250 To 500, Deduct</i>	-7.11	
<i>For >500, Deduct</i>	-10.15	
06 05 23 00-0203 EA 1/2" Diameter x 6" Length, Hot Dipped Galvanized Steel, Hex Lag Bolt.....	23.88	
<i>For >10 To 50, Deduct</i>	-1.06	
<i>For >50 To 100, Deduct</i>	-2.18	
<i>For >100 To 250, Deduct</i>	-4.37	
<i>For >250 To 500, Deduct</i>	-7.61	
<i>For >500, Deduct</i>	-10.85	
06 05 23 00-0204 EA 1/2" Diameter x 8" Length, Hot Dipped Galvanized Steel, Hex Lag Bolt.....	27.95	
<i>For >10 To 50, Deduct</i>	-1.18	
<i>For >50 To 100, Deduct</i>	-2.47	
<i>For >100 To 250, Deduct</i>	-4.95	
<i>For >250 To 500, Deduct</i>	-8.60	
<i>For >500, Deduct</i>	-12.26	
06 05 23 00-0205 EA 1/2" Diameter x 10" Length, Hot Dipped Galvanized Steel, Hex Lag Bolt.....	32.18	
<i>For >10 To 50, Deduct</i>	-1.37	
<i>For >50 To 100, Deduct</i>	-2.86	
<i>For >100 To 250, Deduct</i>	-5.72	
<i>For >250 To 500, Deduct</i>	-9.95	
<i>For >500, Deduct</i>	-14.17	
06 05 23 00-0206 EA 1/2" Diameter x 12" Length, Hot Dipped Galvanized Steel, Hex Lag Bolt.....	35.89	
<i>For >10 To 50, Deduct</i>	-1.49	
<i>For >50 To 100, Deduct</i>	-3.14	
<i>For >100 To 250, Deduct</i>	-6.28	
<i>For >250 To 500, Deduct</i>	-10.91	
<i>For >500, Deduct</i>	-15.54	
06 05 23 00-0207 EA 3/4" Diameter x 4" Length, Hot Dipped Galvanized Steel, Hex Lag Bolt.....	29.94	
<i>For >10 To 50, Deduct</i>	-1.18	
<i>For >50 To 100, Deduct</i>	-2.52	
<i>For >100 To 250, Deduct</i>	-5.04	
<i>For >250 To 500, Deduct</i>	-8.75	
<i>For >500, Deduct</i>	-12.45	
06 05 23 00-0208 EA 3/4" Diameter x 6" Length, Hot Dipped Galvanized Steel, Hex Lag Bolt.....	35.57	
<i>For >10 To 50, Deduct</i>	-1.37	
<i>For >50 To 100, Deduct</i>	-2.94	
<i>For >100 To 250, Deduct</i>	-5.89	
<i>For >250 To 500, Deduct</i>	-10.20	
<i>For >500, Deduct</i>	-14.51	
06 05 23 00-0209 EA 3/4" Diameter x 8" Length, Hot Dipped Galvanized Steel, Hex Lag Bolt.....	39.94	
<i>For >10 To 50, Deduct</i>	-1.43	
<i>For >50 To 100, Deduct</i>	-3.15	
<i>For >100 To 250, Deduct</i>	-6.29	
<i>For >250 To 500, Deduct</i>	-10.87	
<i>For >500, Deduct</i>	-15.45	
06 05 23 00-0210 EA 3/4" Diameter x 10" Length, Hot Dipped Galvanized Steel, Hex Lag Bolt.....	46.59	
<i>For >10 To 50, Deduct</i>	-1.56	
<i>For >50 To 100, Deduct</i>	-3.50	
<i>For >100 To 250, Deduct</i>	-7.00	
<i>For >250 To 500, Deduct</i>	-12.06	
<i>For >500, Deduct</i>	-17.11	
06 05 23 00-0211 EA 3/4" Diameter x 12" Length, Hot Dipped Galvanized Steel, Hex Lag Bolt.....	52.23	
<i>For >10 To 50, Deduct</i>	-1.62	
<i>For >50 To 100, Deduct</i>	-3.73	
<i>For >100 To 250, Deduct</i>	-7.47	
<i>For >250 To 500, Deduct</i>	-12.82	
<i>For >500, Deduct</i>	-18.17	

06 05 23 00-0212 304/18-8 Stainless Steel, Hex Lag Bolts (06 05 23 00-0171)

06 Wood, Plastics, and Composites**06 05 Common Work Results for Wood, Plastics, and Composites****06 05 23 Wood, Plastic, and Composite Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 05 23 00-0213 EA 1/4" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Lag Bolt.....	17.26	
For>10 To 50, Deduct	-0.79	
For>50 To 100, Deduct	-1.62	
For>100 To 250, Deduct	-3.24	
For>250 To 500, Deduct	-5.66	
For>500, Deduct	-8.07	
06 05 23 00-0214 EA 1/4" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Lag Bolt.....	18.31	
For>10 To 50, Deduct	-0.79	
For>50 To 100, Deduct	-1.65	
For>100 To 250, Deduct	-3.30	
For>250 To 500, Deduct	-5.74	
For>500, Deduct	-8.18	
06 05 23 00-0215 EA 1/4" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Lag Bolt.....	21.13	
For>10 To 50, Deduct	-0.79	
For>50 To 100, Deduct	-1.72	
For>100 To 250, Deduct	-3.44	
For>250 To 500, Deduct	-5.95	
For>500, Deduct	-8.46	
06 05 23 00-0216 EA 3/8" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Lag Bolt.....	20.86	
For>10 To 50, Deduct	-0.87	
For>50 To 100, Deduct	-1.82	
For>100 To 250, Deduct	-3.64	
For>250 To 500, Deduct	-6.32	
For>500, Deduct	-9.01	
06 05 23 00-0217 EA 3/8" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Lag Bolt.....	23.68	
For>10 To 50, Deduct	-0.93	
For>50 To 100, Deduct	-1.98	
For>100 To 250, Deduct	-3.97	
For>250 To 500, Deduct	-6.87	
For>500, Deduct	-9.78	
06 05 23 00-0218 EA 3/8" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Lag Bolt.....	25.48	
For>10 To 50, Deduct	-0.93	
For>50 To 100, Deduct	-2.03	
For>100 To 250, Deduct	-4.06	
For>250 To 500, Deduct	-7.01	
For>500, Deduct	-9.96	
06 05 23 00-0219 EA 3/8" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Lag Bolt.....	54.34	
For>10 To 50, Deduct	-1.11	
For>50 To 100, Deduct	-3.03	
For>100 To 250, Deduct	-6.05	
For>250 To 500, Deduct	-10.19	
For>500, Deduct	-14.33	
06 05 23 00-0220 EA 3/8" Diameter x 10" Length, 304/18-8 Stainless Steel, Hex Lag Bolt.....	77.59	
For>10 To 50, Deduct	-1.17	
For>50 To 100, Deduct	-3.70	
For>100 To 250, Deduct	-7.40	
For>250 To 500, Deduct	-12.27	
For>500, Deduct	-17.15	
06 05 23 00-0221 EA 1/2" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Lag Bolt.....	25.69	
For>10 To 50, Deduct	-0.93	
For>50 To 100, Deduct	-2.04	
For>100 To 250, Deduct	-4.09	
For>250 To 500, Deduct	-7.06	
For>500, Deduct	-10.04	
06 05 23 00-0222 EA 1/2" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Lag Bolt.....	30.69	
For>10 To 50, Deduct	-1.00	
For>50 To 100, Deduct	-2.26	
For>100 To 250, Deduct	-4.52	
For>250 To 500, Deduct	-7.78	
For>500, Deduct	-11.04	
06 05 23 00-0223 EA 1/2" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Lag Bolt.....	38.45	
For>10 To 50, Deduct	-1.06	
For>50 To 100, Deduct	-2.55	
For>100 To 250, Deduct	-5.10	
For>250 To 500, Deduct	-8.70	
For>500, Deduct	-12.31	
06 05 23 00-0224 EA 1/2" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Lag Bolt.....	82.87	
For>10 To 50, Deduct	-1.18	
For>50 To 100, Deduct	-3.85	
For>100 To 250, Deduct	-7.69	
For>250 To 500, Deduct	-12.72	
For>500, Deduct	-17.75	
06 05 23 00-0225 EA 1/2" Diameter x 10" Length, 304/18-8 Stainless Steel, Hex Lag Bolt.....	113.56	
For>10 To 50, Deduct	-1.37	
For>50 To 100, Deduct	-4.89	
For>100 To 250, Deduct	-9.79	
For>250 To 500, Deduct	-16.05	
For>500, Deduct	-22.31	
06 05 23 00-0226 EA 1/2" Diameter x 12" Length, 304/18-8 Stainless Steel, Hex Lag Bolt.....	132.99	
For>10 To 50, Deduct	-1.49	
For>50 To 100, Deduct	-5.57	
For>100 To 250, Deduct	-11.13	
For>250 To 500, Deduct	-18.19	
For>500, Deduct	-25.25	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 05 23 00-0227 EA 3/4" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Lag Bolt.....	124.02	
<i>For >10 To 50, Deduct</i>	-1.18	
<i>For >50 To 100, Deduct</i>	-4.87	
<i>For >100 To 250, Deduct</i>	-9.75	
<i>For >250 To 500, Deduct</i>	-15.81	
<i>For >500, Deduct</i>	-21.86	
06 05 23 00-0228 EA 3/4" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Lag Bolt.....	141.71	
<i>For >10 To 50, Deduct</i>	-1.37	
<i>For >50 To 100, Deduct</i>	-5.60	
<i>For >100 To 250, Deduct</i>	-11.19	
<i>For >250 To 500, Deduct</i>	-18.16	
<i>For >500, Deduct</i>	-25.13	
06 05 23 00-0229 EA 3/4" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Lag Bolt.....	147.43	
<i>For >10 To 50, Deduct</i>	-1.43	
<i>For >50 To 100, Deduct</i>	-5.83	
<i>For >100 To 250, Deduct</i>	-11.67	
<i>For >250 To 500, Deduct</i>	-18.93	
<i>For >500, Deduct</i>	-26.20	
06 05 23 00-0230 EA 3/4" Diameter x 10" Length, 304/18-8 Stainless Steel, Hex Lag Bolt.....	205.65	
<i>For >10 To 50, Deduct</i>	-1.56	
<i>For >50 To 100, Deduct</i>	-7.48	
<i>For >100 To 250, Deduct</i>	-14.95	
<i>For >250 To 500, Deduct</i>	-23.98	
<i>For >500, Deduct</i>	-33.02	
06 05 23 00-0231 EA 3/4" Diameter x 12" Length, 304/18-8 Stainless Steel, Hex Lag Bolt.....	224.64	
<i>For >10 To 50, Deduct</i>	-1.62	
<i>For >50 To 100, Deduct</i>	-8.04	
<i>For >100 To 250, Deduct</i>	-16.09	
<i>For >250 To 500, Deduct</i>	-25.75	
<i>For >500, Deduct</i>	-35.41	
06 05 23 00-0232 Stainless Steel Screws <small>(06 05 23 00-0093)</small>		
06 05 23 00-0233 EA #8 x 1-1/2" Stainless Steel Screw	2.56	
06 05 23 00-0234 EA #9 x 1-1/2" Stainless Steel Screw	2.61	
06 05 23 00-0235 EA #10 x 1-1/2" Stainless Steel Screw	2.68	
06 05 23 00-0236 EA #12 x 1-1/2" Stainless Steel Screw	2.91	
06 05 23 00-0237 Galvanized Steel Screws <small>(06 05 23 00-0093)</small>		
06 05 23 00-0238 EA #8 x 1-1/2" Galvanized Steel Screw.....	2.33	
06 05 23 00-0239 EA #9 x 1-1/2" Galvanized Steel Screw.....	2.38	
06 05 23 00-0240 EA #10 x 1-1/2" Galvanized Steel Screw.....	2.44	
06 05 23 00-0241 EA #12 x 1-1/2" Galvanized Steel Screw.....	2.64	
06 05 23 00-0242 EA #8 x 2-1/2" Galvanized Steel Screw.....	2.38	
06 05 23 00-0243 EA #9 x 2-1/2" Galvanized Steel Screw.....	2.43	
06 05 23 00-0244 EA #10 x 2-1/2" Galvanized Steel Screw.....	2.50	
06 05 23 00-0245 EA #12 x 2-1/2" Galvanized Steel Screw.....	2.75	
06 05 23 00-0246 Timber Bolts <small>(06 05 23 00-0093)</small>		
Note: Includes drilling of holes in any material.		
06 05 23 00-0247 EA 5/8" - 11 x 4" Threaded x 8" OAL A153 Galvanized Timber Bolt (Fastenal #11103914)	41.23	
<i>For >10 To 50, Deduct</i>	-1.32	
<i>For >50 To 100, Deduct</i>	-3.00	
<i>For >100 To 250, Deduct</i>	-6.01	
<i>For >250 To 500, Deduct</i>	-10.33	
<i>For >500, Deduct</i>	-14.65	
06 05 23 00-0248 EA 5/8" - 11 x 4" Threaded x 10" OAL A153 Galvanized Timber Bolt (Fastenal #11103915)	46.60	
<i>For >10 To 50, Deduct</i>	-1.47	
<i>For >50 To 100, Deduct</i>	-3.37	
<i>For >100 To 250, Deduct</i>	-6.75	
<i>For >250 To 500, Deduct</i>	-11.59	
<i>For >500, Deduct</i>	-16.44	
06 05 23 00-0249 EA 5/8" - 11 x 6" Threaded x 12" OAL A153 Galvanized Timber Bolt (Fastenal #11103916)	50.39	
<i>For >10 To 50, Deduct</i>	-1.57	
<i>For >50 To 100, Deduct</i>	-3.61	
<i>For >100 To 250, Deduct</i>	-7.23	
<i>For >250 To 500, Deduct</i>	-12.41	
<i>For >500, Deduct</i>	-17.59	
06 05 23 00-0250 EA 5/8" - 11 x 6" Threaded x 14" OAL A153 Galvanized Timber Bolt (Fastenal #11103917)	56.29	
<i>For >10 To 50, Deduct</i>	-1.66	
<i>For >50 To 100, Deduct</i>	-3.89	
<i>For >100 To 250, Deduct</i>	-7.79	
<i>For >250 To 500, Deduct</i>	-13.34	
<i>For >500, Deduct</i>	-18.89	
06 05 23 00-0251 EA 5/8" - 11 x 6" Threaded x 16" OAL A153 Galvanized Timber Bolt (Fastenal #11103918)	59.95	
<i>For >10 To 50, Deduct</i>	-1.75	
<i>For >50 To 100, Deduct</i>	-4.12	
<i>For >100 To 250, Deduct</i>	-8.24	
<i>For >250 To 500, Deduct</i>	-14.11	
<i>For >500, Deduct</i>	-19.98	

06 Wood, Plastics, and Composites**06 05 Common Work Results for Wood, Plastics, and Composites****06 05 23 Wood, Plastic, and Composite Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 05 23 00-0252 EA 5/8" - 11 x 6" Threaded x 18" OAL A153 Galvanized Timber Bolt (Fastenal #11103919)	62.24	
For>10 To 50, Deduct	-1.82	
For>50 To 100, Deduct	-4.29	
For>100 To 250, Deduct	-8.59	
For>250 To 500, Deduct	-14.70	
For>500, Deduct	-20.82	
06 05 23 00-0253 EA 3/4" - 11 x 4" Threaded x 10" OAL A153 Galvanized Timber Bolt (Fastenal #11103920)	55.94	
For>10 To 50, Deduct	-1.57	
For>50 To 100, Deduct	-3.75	
For>100 To 250, Deduct	-7.50	
For>250 To 500, Deduct	-12.82	
For>500, Deduct	-18.14	
06 05 23 00-0254 EA 3/4" - 11 x 6" Threaded x 12" OAL A153 Galvanized Timber Bolt (Fastenal #11103921)	58.53	
For>10 To 50, Deduct	-1.63	
For>50 To 100, Deduct	-3.91	
For>100 To 250, Deduct	-7.82	
For>250 To 500, Deduct	-13.37	
For>500, Deduct	-18.91	
06 05 23 00-0255 EA 3/4" - 11 x 6" Threaded x 14" OAL A153 Galvanized Timber Bolt (Fastenal #11103922)	64.95	
For>10 To 50, Deduct	-1.73	
For>50 To 100, Deduct	-4.22	
For>100 To 250, Deduct	-8.43	
For>250 To 500, Deduct	-14.38	
For>500, Deduct	-20.32	
06 05 23 00-0256 EA 3/4" - 11 x 6" Threaded x 16" OAL A153 Galvanized Timber Bolt (Fastenal #11103923)	69.80	
For>10 To 50, Deduct	-1.82	
For>50 To 100, Deduct	-4.47	
For>100 To 250, Deduct	-8.94	
For>250 To 500, Deduct	-15.23	
For>500, Deduct	-21.52	
06 05 23 00-0257 EA 3/4" - 11 x 6" Threaded x 18" OAL A153 Galvanized Timber Bolt (Fastenal #11103924)	75.08	
For>10 To 50, Deduct	-1.91	
For>50 To 100, Deduct	-4.74	
For>100 To 250, Deduct	-9.48	
For>250 To 500, Deduct	-16.12	
For>500, Deduct	-22.77	
06 05 23 00-0258 Supports (06 05 23)		
06 05 23 00-0259 Shear Plates (06 05 23 00-0258)		
06 05 23 00-0260 EA 2-5/8" Diameter, Shear Plate	17.14	4.70
For>10 To 50, Deduct	-0.53	
For>50 To 100, Deduct	-1.22	
For>100 To 250, Deduct	-2.44	
For>250 To 500, Deduct	-4.20	
For>500, Deduct	-5.95	
06 05 23 00-0261 EA 4" Diameter, Shear Plate	16.54	4.95
For>10 To 50, Deduct	-0.55	
For>50 To 100, Deduct	-1.24	
For>100 To 250, Deduct	-2.48	
For>250 To 500, Deduct	-4.28	
For>500, Deduct	-6.07	
06 05 23 00-0262 Sill Anchors (06 05 23 00-0258)		
06 05 23 00-0263 EA Sill Anchor Embedded In Concrete	14.76	4.95
For>10 To 50, Deduct	-0.55	
For>50 To 100, Deduct	-1.20	
For>100 To 250, Deduct	-2.39	
For>250 To 500, Deduct	-4.14	
For>500, Deduct	-5.89	
06 05 23 00-0264 Spike Grids (06 05 23 00-0258)		
06 05 23 00-0265 EA 3" x 6" Flat Or Curved Spike Grid	13.19	4.70
For>10 To 50, Deduct	-0.53	
For>50 To 100, Deduct	-1.12	
For>100 To 250, Deduct	-2.25	
For>250 To 500, Deduct	-3.90	
For>500, Deduct	-5.55	
06 05 23 00-0266 Split Rings (06 05 23 00-0258)		
06 05 23 00-0267 EA 2-1/2" Diameter Split Ring	17.36	4.70
For>10 To 50, Deduct	-0.53	
For>50 To 100, Deduct	-1.23	
For>100 To 250, Deduct	-2.46	
For>250 To 500, Deduct	-4.21	
For>500, Deduct	-5.97	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 05 23 00-0268 EA 4" Diameter Split Ring.....	18.69	5.21
<i>For >10 To 50, Deduct</i>	-0.58	
<i>For >50 To 100, Deduct</i>	-1.33	
<i>For >100 To 250, Deduct</i>	-2.67	
<i>For >250 To 500, Deduct</i>	-4.58	
<i>For >500, Deduct</i>	-6.49	
06 05 23 00-0269 Toothed Rings <small>(06 05 23 00-0258)</small>		
06 05 23 00-0270 EA 2-5/8" Or 4" Toothed Ring.....	13.97	4.70
<i>For >10 To 50, Deduct</i>	-0.53	
<i>For >50 To 100, Deduct</i>	-1.14	
<i>For >100 To 250, Deduct</i>	-2.29	
<i>For >250 To 500, Deduct</i>	-3.96	
<i>For >500, Deduct</i>	-5.63	
06 05 23 00-0271 Straps And Shields <small>(06 05 23)</small>		
06 05 23 00-0272 Shield Plate <small>(06 05 23 00-0271)</small>		
06 05 23 00-0273 EA 5" Wide x 8" Long, 16 Gauge, Galvanized Shield Plate (Simpson Strong Tie® PSPN58Z).....	8.80	
<i>For >10 To 50, Deduct</i>	-0.08	
<i>For >50 To 100, Deduct</i>	-0.30	
<i>For >100 To 250, Deduct</i>	-0.60	
<i>For >250 To 500, Deduct</i>	-1.06	
<i>For >500, Deduct</i>	-1.61	
06 05 23 00-0274 EA 5" Wide x 16" Long, 16 Gauge, Galvanized Shield Plate (Simpson Strong Tie® PSPN516Z).....	13.83	
<i>For >10 To 50, Deduct</i>	-0.10	
<i>For >50 To 100, Deduct</i>	-0.44	
<i>For >100 To 250, Deduct</i>	-0.88	
<i>For >250 To 500, Deduct</i>	-1.51	
<i>For >500, Deduct</i>	-2.26	
06 05 23 00-0275 Strap Ties <small>(06 05 23 00-0271)</small>		
06 05 23 00-0276 EA 1-1/4" Wide x 9" Long, 20 Gauge, Galvanized Strap Tie (Simpson Strong Tie® LSTA9).....	3.57	
<i>For >10 To 50, Deduct</i>	-0.06	
<i>For >50 To 100, Deduct</i>	-0.15	
<i>For >100 To 250, Deduct</i>	-0.31	
<i>For >250 To 500, Deduct</i>	-0.59	
<i>For >500, Deduct</i>	-0.94	
06 05 23 00-0277 EA 1-1/4" Wide x 12" Long, 20 Gauge, Galvanized Strap Tie (Simpson Strong Tie® LSTA12).....	3.66	
<i>For >10 To 50, Deduct</i>	-0.06	
<i>For >50 To 100, Deduct</i>	-0.16	
<i>For >100 To 250, Deduct</i>	-0.31	
<i>For >250 To 500, Deduct</i>	-0.59	
<i>For >500, Deduct</i>	-0.95	
06 05 23 00-0278 EA 1-1/4" Wide x 15" Long, 20 Gauge, Galvanized Strap Tie (Simpson Strong Tie® LSTA15).....	4.66	
<i>For >10 To 50, Deduct</i>	-0.08	
<i>For >50 To 100, Deduct</i>	-0.20	
<i>For >100 To 250, Deduct</i>	-0.39	
<i>For >250 To 500, Deduct</i>	-0.75	
<i>For >500, Deduct</i>	-1.20	
06 05 23 00-0279 EA 1-1/4" Wide x 18" Long, 20 Gauge, Galvanized Strap Tie (Simpson Strong Tie® LSTA18).....	4.82	
<i>For >10 To 50, Deduct</i>	-0.08	
<i>For >50 To 100, Deduct</i>	-0.20	
<i>For >100 To 250, Deduct</i>	-0.40	
<i>For >250 To 500, Deduct</i>	-0.76	
<i>For >500, Deduct</i>	-1.21	
06 05 23 00-0280 EA 1-1/4" Wide x 21" Long, 20 Gauge, Galvanized Strap Tie (Simpson Strong Tie® LSTA21).....	4.99	
<i>For >10 To 50, Deduct</i>	-0.08	
<i>For >50 To 100, Deduct</i>	-0.20	
<i>For >100 To 250, Deduct</i>	-0.41	
<i>For >250 To 500, Deduct</i>	-0.77	
<i>For >500, Deduct</i>	-1.23	
06 05 23 00-0281 EA 1-1/4" Wide x 24" Long, 20 Gauge, Galvanized Strap Tie (Simpson Strong Tie® LSTA24).....	5.75	
<i>For >10 To 50, Deduct</i>	-0.10	
<i>For >50 To 100, Deduct</i>	-0.24	
<i>For >100 To 250, Deduct</i>	-0.48	
<i>For >250 To 500, Deduct</i>	-0.91	
<i>For >500, Deduct</i>	-1.45	
06 05 23 00-0282 EA 1-1/4" Wide x 30" Long, 20 Gauge, Galvanized Strap Tie (Simpson Strong Tie® LSTA30).....	7.31	
<i>For >10 To 50, Deduct</i>	-0.10	
<i>For >50 To 100, Deduct</i>	-0.28	
<i>For >100 To 250, Deduct</i>	-0.56	
<i>For >250 To 500, Deduct</i>	-1.02	
<i>For >500, Deduct</i>	-1.61	
06 05 23 00-0283 EA 1-1/4" Wide x 36" Long, 20 Gauge, Galvanized Strap Tie (Simpson Strong Tie® LSTA36).....	8.48	
<i>For >10 To 50, Deduct</i>	-0.11	
<i>For >50 To 100, Deduct</i>	-0.32	
<i>For >100 To 250, Deduct</i>	-0.65	
<i>For >250 To 500, Deduct</i>	-1.19	
<i>For >500, Deduct</i>	-1.87	

06 Wood, Plastics, and Composites**06 05 Common Work Results for Wood, Plastics, and Composites****06 05 23 Wood, Plastic, and Composite Fastenings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 05 23 00-0284	EA		1-1/4" Wide x 9" Long, 18 Gauge, Galvanized Strap Tie (Simpson Strong Tie® MSTA9).....	3.92	
			<i>For >10 To 50, Deduct</i>	-0.06	
			<i>For >50 To 100, Deduct</i>	-0.16	
			<i>For >100 To 250, Deduct</i>	-0.32	
			<i>For >250 To 500, Deduct</i>	-0.61	
			<i>For >500, Deduct</i>	-0.98	
06 05 23 00-0285	EA		1-1/4" Wide x 12" Long, 18 Gauge, Galvanized Strap Tie (Simpson Strong Tie® MSTA12).....	4.05	
			<i>For >10 To 50, Deduct</i>	-0.06	
			<i>For >50 To 100, Deduct</i>	-0.16	
			<i>For >100 To 250, Deduct</i>	-0.33	
			<i>For >250 To 500, Deduct</i>	-0.62	
			<i>For >500, Deduct</i>	-0.99	
06 05 23 00-0286	EA		1-1/4" Wide x 15" Long, 18 Gauge, Galvanized Strap Tie (Simpson Strong Tie® MSTA15).....	5.15	
			<i>For >10 To 50, Deduct</i>	-0.08	
			<i>For >50 To 100, Deduct</i>	-0.21	
			<i>For >100 To 250, Deduct</i>	-0.42	
			<i>For >250 To 500, Deduct</i>	-0.78	
			<i>For >500, Deduct</i>	-1.25	
06 05 23 00-0287	EA		1-1/4" Wide x 18" Long, 18 Gauge, Galvanized Strap Tie (Simpson Strong Tie® MSTA18).....	5.35	
			<i>For >10 To 50, Deduct</i>	-0.08	
			<i>For >50 To 100, Deduct</i>	-0.21	
			<i>For >100 To 250, Deduct</i>	-0.43	
			<i>For >250 To 500, Deduct</i>	-0.80	
			<i>For >500, Deduct</i>	-1.27	
06 05 23 00-0288	EA		1-1/4" Wide x 21" Long, 18 Gauge, Galvanized Strap Tie (Simpson Strong Tie® MSTA21).....	5.45	
			<i>For >10 To 50, Deduct</i>	-0.08	
			<i>For >50 To 100, Deduct</i>	-0.22	
			<i>For >100 To 250, Deduct</i>	-0.43	
			<i>For >250 To 500, Deduct</i>	-0.81	
			<i>For >500, Deduct</i>	-1.28	
06 05 23 00-0289	EA		1-1/4" Wide x 24" Long, 18 Gauge, Galvanized Strap Tie (Simpson Strong Tie® MSTA24).....	6.25	
			<i>For >10 To 50, Deduct</i>	-0.10	
			<i>For >50 To 100, Deduct</i>	-0.25	
			<i>For >100 To 250, Deduct</i>	-0.50	
			<i>For >250 To 500, Deduct</i>	-0.95	
			<i>For >500, Deduct</i>	-1.50	
06 05 23 00-0290	EA		1-1/4" Wide x 30" Long, 18 Gauge, Galvanized Strap Tie (Simpson Strong Tie® MSTA30).....	7.64	
			<i>For >10 To 50, Deduct</i>	-0.10	
			<i>For >50 To 100, Deduct</i>	-0.29	
			<i>For >100 To 250, Deduct</i>	-0.57	
			<i>For >250 To 500, Deduct</i>	-1.05	
			<i>For >500, Deduct</i>	-1.64	
06 05 23 00-0291	EA		1-1/4" Wide x 36" Long, 18 Gauge, Galvanized Strap Tie (Simpson Strong Tie® MSTA36).....	8.49	
			<i>For >10 To 50, Deduct</i>	-0.11	
			<i>For >50 To 100, Deduct</i>	-0.32	
			<i>For >100 To 250, Deduct</i>	-0.65	
			<i>For >250 To 500, Deduct</i>	-1.19	
			<i>For >500, Deduct</i>	-1.87	
06 05 23 00-0292	EA		1-1/4" Wide x 36" Long, 18 Gauge, Galvanized Strap Tie (Simpson Strong Tie® MSTA49).....	13.15	
			<i>For >10 To 50, Deduct</i>	-0.13	
			<i>For >50 To 100, Deduct</i>	-0.46	
			<i>For >100 To 250, Deduct</i>	-0.91	
			<i>For >250 To 500, Deduct</i>	-1.62	
			<i>For >500, Deduct</i>	-2.48	
06 05 23 00-0293	EA		1-1/4" Wide x 9" Long, 16 Gauge, Galvanized Strap Tie (Simpson Strong Tie® ST9).....	4.57	
			<i>For >10 To 50, Deduct</i>	-0.06	
			<i>For >50 To 100, Deduct</i>	-0.18	
			<i>For >100 To 250, Deduct</i>	-0.36	
			<i>For >250 To 500, Deduct</i>	-0.66	
			<i>For >500, Deduct</i>	-1.04	
06 05 23 00-0294	EA		1-1/4" Wide x 12" Long, 16 Gauge, Galvanized Strap Tie (Simpson Strong Tie® ST12).....	4.58	
			<i>For >10 To 50, Deduct</i>	-0.06	
			<i>For >50 To 100, Deduct</i>	-0.18	
			<i>For >100 To 250, Deduct</i>	-0.36	
			<i>For >250 To 500, Deduct</i>	-0.66	
			<i>For >500, Deduct</i>	-1.04	
06 05 23 00-0295	EA		1-1/4" Wide x 18" Long, 16 Gauge, Galvanized Strap Tie (Simpson Strong Tie® ST18).....	5.58	
			<i>For >10 To 50, Deduct</i>	-0.08	
			<i>For >50 To 100, Deduct</i>	-0.22	
			<i>For >100 To 250, Deduct</i>	-0.44	
			<i>For >250 To 500, Deduct</i>	-0.82	
			<i>For >500, Deduct</i>	-1.29	
06 05 23 00-0296	EA		1-1/4" Wide x 22" Long, 16 Gauge, Galvanized Strap Tie (Simpson Strong Tie® ST22).....	7.64	
			<i>For >10 To 50, Deduct</i>	-0.10	
			<i>For >50 To 100, Deduct</i>	-0.29	
			<i>For >100 To 250, Deduct</i>	-0.57	
			<i>For >250 To 500, Deduct</i>	-1.05	
			<i>For >500, Deduct</i>	-1.64	
06 05 23 00-0297	EA		1-3/8" Wide x 6" Long, 12 Gauge, Galvanized Strap Tie (Simpson Strong Tie® HRS6).....	6.43	
			<i>For >10 To 50, Deduct</i>	-0.06	
			<i>For >50 To 100, Deduct</i>	-0.22	
			<i>For >100 To 250, Deduct</i>	-0.45	
			<i>For >250 To 500, Deduct</i>	-0.80	
			<i>For >500, Deduct</i>	-1.23	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 05 23 00-0298 EA 1-3/8" Wide x 8" Long, 12 Gauge, Galvanized Strap Tie (Simpson Strong Tie® HRS8)	7.05	
<i>For >10 To 50, Deduct</i>	-0.06	
<i>For >50 To 100, Deduct</i>	-0.24	
<i>For >100 To 250, Deduct</i>	-0.48	
<i>For >250 To 500, Deduct</i>	-0.85	
<i>For >500, Deduct</i>	-1.29	
06 05 23 00-0299 EA 1-3/8" Wide x 12" Long, 12 Gauge, Galvanized Strap Tie (Simpson Strong Tie® HRS12)	9.23	
<i>For >10 To 50, Deduct</i>	-0.08	
<i>For >50 To 100, Deduct</i>	-0.31	
<i>For >100 To 250, Deduct</i>	-0.62	
<i>For >250 To 500, Deduct</i>	-1.09	
<i>For >500, Deduct</i>	-1.65	
06 05 23 00-0300 EA 2-1/16" Wide x 27" Long, 12 Gauge, Galvanized Medium Strap Tie (Simpson Strong Tie® MST27)	13.60	
<i>For >10 To 50, Deduct</i>	-0.10	
<i>For >50 To 100, Deduct</i>	-0.44	
<i>For >100 To 250, Deduct</i>	-0.87	
<i>For >250 To 500, Deduct</i>	-1.50	
<i>For >500, Deduct</i>	-2.24	
06 05 23 00-0301 EA 2-1/16" Wide x 37" Long, 12 Gauge, Galvanized Medium Strap Tie (Simpson Strong Tie® MST37)	16.91	
<i>For >10 To 50, Deduct</i>	-0.11	
<i>For >50 To 100, Deduct</i>	-0.53	
<i>For >100 To 250, Deduct</i>	-1.07	
<i>For >250 To 500, Deduct</i>	-1.82	
<i>For >500, Deduct</i>	-2.71	
06 05 23 00-0302 EA 2-1/16" Wide x 48" Long, 12 Gauge, Galvanized Medium Strap Tie (Simpson Strong Tie® MST48)	24.81	
<i>For >10 To 50, Deduct</i>	-0.13	
<i>For >50 To 100, Deduct</i>	-0.75	
<i>For >100 To 250, Deduct</i>	-1.49	
<i>For >250 To 500, Deduct</i>	-2.50	
<i>For >500, Deduct</i>	-3.65	
06 05 23 00-0303 EA 2-1/16" Wide x 60" Long, 12 Gauge, Galvanized Medium Strap Tie (Simpson Strong Tie® MST60)	42.77	
<i>For >10 To 50, Deduct</i>	-0.14	
<i>For >50 To 100, Deduct</i>	-1.21	
<i>For >100 To 250, Deduct</i>	-2.42	
<i>For >250 To 500, Deduct</i>	-3.92	
<i>For >500, Deduct</i>	-5.59	
06 05 23 00-0304 EA 2-1/16" Wide x 72" Long, 12 Gauge, Galvanized Medium Strap Tie (Simpson Strong Tie® MST72)	55.00	
<i>For >10 To 50, Deduct</i>	-0.16	
<i>For >50 To 100, Deduct</i>	-1.53	
<i>For >100 To 250, Deduct</i>	-3.07	
<i>For >250 To 500, Deduct</i>	-4.92	
<i>For >500, Deduct</i>	-6.96	
06 05 23 00-0305 EA 3" Wide x 28-1/4" Long, 16 Gauge, Galvanized Strap Ties (Simpson Strong Tie® MSTC28).....	16.12	
<i>For >10 To 50, Deduct</i>	-0.10	
<i>For >50 To 100, Deduct</i>	-0.50	
<i>For >100 To 250, Deduct</i>	-1.00	
<i>For >250 To 500, Deduct</i>	-1.69	
<i>For >500, Deduct</i>	-2.49	
06 05 23 00-0306 EA 3" Wide x 40-1/4" Long, 16 Gauge, Galvanized Strap Ties (Simpson Strong Tie® MSTC40).....	20.75	
<i>For >10 To 50, Deduct</i>	-0.11	
<i>For >50 To 100, Deduct</i>	-0.63	
<i>For >100 To 250, Deduct</i>	-1.26	
<i>For >250 To 500, Deduct</i>	-2.11	
<i>For >500, Deduct</i>	-3.10	
06 05 23 00-0307 EA 3" Wide x 52-1/4" Long, 16 Gauge, Galvanized Strap Ties (Simpson Strong Tie® MSTC52).....	24.21	
<i>For >10 To 50, Deduct</i>	-0.13	
<i>For >50 To 100, Deduct</i>	-0.73	
<i>For >100 To 250, Deduct</i>	-1.46	
<i>For >250 To 500, Deduct</i>	-2.45	
<i>For >500, Deduct</i>	-3.59	
06 05 23 00-0308 EA 3" Wide x 66-1/4" Long, 16 Gauge, Galvanized Strap Ties (Simpson Strong Tie® MSTC66).....	36.58	
<i>For >10 To 50, Deduct</i>	-0.14	
<i>For >50 To 100, Deduct</i>	-1.06	
<i>For >100 To 250, Deduct</i>	-2.11	
<i>For >250 To 500, Deduct</i>	-3.46	
<i>For >500, Deduct</i>	-4.97	
06 05 23 00-0309 Twist Strap Ties <small>(06 05 23 00-0271)</small>		
06 05 23 00-0310 EA 1-1/4" Wide x 12" Long, 18 Gauge, Galvanized Twist Strap Tie (Simpson Strong Tie® LTS12).....	4.12	
<i>For >10 To 50, Deduct</i>	-0.06	
<i>For >50 To 100, Deduct</i>	-0.17	
<i>For >100 To 250, Deduct</i>	-0.33	
<i>For >250 To 500, Deduct</i>	-0.63	
<i>For >500, Deduct</i>	-1.00	
06 05 23 00-0311 EA 1-1/4" Wide x 16" Long, 18 Gauge, Galvanized Twist Strap Tie (Simpson Strong Tie® LTS16).....	5.13	
<i>For >10 To 50, Deduct</i>	-0.07	
<i>For >50 To 100, Deduct</i>	-0.20	
<i>For >100 To 250, Deduct</i>	-0.40	
<i>For >250 To 500, Deduct</i>	-0.74	
<i>For >500, Deduct</i>	-1.17	

06 Wood, Plastics, and Composites**06 05 Common Work Results for Wood, Plastics, and Composites****06 05 23 Wood, Plastic, and Composite Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 05 23 00-0312 EA 1-1/4" Wide x 18" Long, 18 Gauge, Galvanized Twist Strap Tie (Simpson Strong Tie® LTS18).....	5.90	
For>10 To 50, Deduct	-0.08	
For>50 To 100, Deduct	-0.23	
For>100 To 250, Deduct	-0.45	
For>250 To 500, Deduct	-0.84	
For>500, Deduct	-1.32	
06 05 23 00-0313 EA 1-1/4" Wide x 20" Long, 18 Gauge, Galvanized Twist Strap Tie (Simpson Strong Tie® LTS20).....	6.39	
For>10 To 50, Deduct	-0.09	
For>50 To 100, Deduct	-0.25	
For>100 To 250, Deduct	-0.49	
For>250 To 500, Deduct	-0.92	
For>500, Deduct	-1.44	
06 05 23 00-0314 EA 1-1/4" Wide x 12" Long, 16 Gauge, Galvanized Twist Strap Tie (Simpson Strong Tie® MTS12).....	4.08	
For>10 To 50, Deduct	-0.06	
For>50 To 100, Deduct	-0.17	
For>100 To 250, Deduct	-0.33	
For>250 To 500, Deduct	-0.62	
For>500, Deduct	-0.99	
06 05 23 00-0315 EA 1-1/4" Wide x 16" Long, 16 Gauge, Galvanized Twist Strap Tie (Simpson Strong Tie® MTS16).....	5.21	
For>10 To 50, Deduct	-0.07	
For>50 To 100, Deduct	-0.20	
For>100 To 250, Deduct	-0.40	
For>250 To 500, Deduct	-0.75	
For>500, Deduct	-1.18	
06 05 23 00-0316 EA 1-1/4" Wide x 18" Long, 16 Gauge, Galvanized Twist Strap Tie (Simpson Strong Tie® MTS18).....	6.04	
For>10 To 50, Deduct	-0.08	
For>50 To 100, Deduct	-0.23	
For>100 To 250, Deduct	-0.46	
For>250 To 500, Deduct	-0.85	
For>500, Deduct	-1.34	
06 05 23 00-0317 EA 1-1/4" Wide x 20" Long, 16 Gauge, Galvanized Twist Strap Tie (Simpson Strong Tie® MTS20).....	6.44	
For>10 To 50, Deduct	-0.09	
For>50 To 100, Deduct	-0.25	
For>100 To 250, Deduct	-0.50	
For>250 To 500, Deduct	-0.92	
For>500, Deduct	-1.45	
06 05 23 00-0318 EA 1-1/4" Wide x 24" Long, 16 Gauge, Galvanized Twist Strap Tie (Simpson Strong Tie® MTS24).....	8.68	
For>10 To 50, Deduct	-0.10	
For>50 To 100, Deduct	-0.31	
For>100 To 250, Deduct	-0.62	
For>250 To 500, Deduct	-1.13	
For>500, Deduct	-1.74	
06 05 23 00-0319 EA 1-1/4" Wide x 16" Long, 14 Gauge, Galvanized Twist Strap Tie (Simpson Strong Tie® HTS16).....	6.63	
For>10 To 50, Deduct	-0.07	
For>50 To 100, Deduct	-0.24	
For>100 To 250, Deduct	-0.47	
For>250 To 500, Deduct	-0.85	
For>500, Deduct	-1.32	
06 05 23 00-0320 EA 1-1/4" Wide x 20" Long, 14 Gauge, Galvanized Twist Strap Tie (Simpson Strong Tie® HTS20).....	7.94	
For>10 To 50, Deduct	-0.09	
For>50 To 100, Deduct	-0.29	
For>100 To 250, Deduct	-0.57	
For>250 To 500, Deduct	-1.03	
For>500, Deduct	-1.60	
06 05 23 00-0321 EA 1-1/4" Wide x 24" Long, 14 Gauge, Galvanized Twist Strap Tie (Simpson Strong Tie® HTS24).....	9.20	
For>10 To 50, Deduct	-0.10	
For>50 To 100, Deduct	-0.33	
For>100 To 250, Deduct	-0.65	
For>250 To 500, Deduct	-1.17	
For>500, Deduct	-1.80	
06 05 23 00-0322 Retrofit Plate Strap <small>(06 05 23 00-0271)</small>		
06 05 23 00-0323 EA 1-3/8" Wide x 18-5/16" Long, 16 Gauge, Galvanized Retrofit Plate Strap (Simpson Strong Tie® RPS18).....	6.68	
For>10 To 50, Deduct	-0.08	
For>50 To 100, Deduct	-0.25	
For>100 To 250, Deduct	-0.49	
For>250 To 500, Deduct	-0.90	
For>500, Deduct	-1.40	
06 05 23 00-0324 EA 1-3/8" Wide x 22-5/16" Long, 16 Gauge, Galvanized Retrofit Plate Strap (Simpson Strong Tie® RPS22).....	7.58	
For>10 To 50, Deduct	-0.08	
For>50 To 100, Deduct	-0.27	
For>100 To 250, Deduct	-0.54	
For>250 To 500, Deduct	-0.97	
For>500, Deduct	-1.49	
06 05 23 00-0325 EA 1-3/8" Wide x 28-5/16" Long, 16 Gauge, Galvanized Retrofit Plate Strap (Simpson Strong Tie® RPS28).....	9.01	
For>10 To 50, Deduct	-0.08	
For>50 To 100, Deduct	-0.30	
For>100 To 250, Deduct	-0.61	
For>250 To 500, Deduct	-1.07	
For>500, Deduct	-1.63	
06 05 23 00-0326 Stud Shoe <small>(06 05 23 00-0271)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 05 23 00-0327 EA 6" High With 3-1/4" Wide Tabs For 2X Stud, 16 Gauge, Galvanized Stud Shoe (Simpson Strong Tie® SS1.5).....	11.20	
<i>For >10 To 50, Deduct</i>	-0.10	
<i>For >50 To 100, Deduct</i>	-0.38	
<i>For >100 To 250, Deduct</i>	-0.75	
<i>For >250 To 500, Deduct</i>	-1.32	
<i>For >500, Deduct</i>	-2.00	
06 05 23 00-0328 EA 6" High With 3-1/4" Wide Tabs For 3X Stud, 16 Gauge, Galvanized Stud Shoe (Simpson Strong Tie® SS2.5).....	21.72	
<i>For >10 To 50, Deduct</i>	-0.10	
<i>For >50 To 100, Deduct</i>	-0.64	
<i>For >100 To 250, Deduct</i>	-1.28	
<i>For >250 To 500, Deduct</i>	-2.11	
<i>For >500, Deduct</i>	-3.05	
06 05 23 00-0329 EA 6" High With 3-1/4" Wide Tabs For 2-2X Studs, 16 Gauge, Galvanized Stud Shoe (Simpson Strong Tie® SS3).....	21.81	
<i>For >10 To 50, Deduct</i>	-0.10	
<i>For >50 To 100, Deduct</i>	-0.64	
<i>For >100 To 250, Deduct</i>	-1.28	
<i>For >250 To 500, Deduct</i>	-2.11	
<i>For >500, Deduct</i>	-3.06	
06 05 23 00-0330 EA 6" High With 3-1/4" Wide Tabs For 3-2X Studs, 16 Gauge, Galvanized Stud Shoe (Simpson Strong Tie® SS4.5).....	29.12	
<i>For >10 To 50, Deduct</i>	-0.10	
<i>For >50 To 100, Deduct</i>	-0.82	
<i>For >100 To 250, Deduct</i>	-1.65	
<i>For >250 To 500, Deduct</i>	-2.66	
<i>For >500, Deduct</i>	-3.79	
06 05 23 00-0331 EA 7-1/8" High With 3-1/4" Wide Tabs For 2X Studs, 16 Gauge, Galvanized Stud Shoe (Simpson Strong Tie® HSS2-SDS1.5).....	27.38	
<i>For >10 To 50, Deduct</i>	-0.10	
<i>For >50 To 100, Deduct</i>	-0.78	
<i>For >100 To 250, Deduct</i>	-1.56	
<i>For >250 To 500, Deduct</i>	-2.53	
<i>For >500, Deduct</i>	-3.61	
06 05 23 00-0332 EA 7-1/8" High With 3-1/4" Wide Tabs For 2-2X Studs, 16 Gauge, Galvanized Stud Shoe (Simpson Strong Tie HSS2-2-SDS3).....	29.64	
<i>For >10 To 50, Deduct</i>	-0.10	
<i>For >50 To 100, Deduct</i>	-0.84	
<i>For >100 To 250, Deduct</i>	-1.67	
<i>For >250 To 500, Deduct</i>	-2.70	
<i>For >500, Deduct</i>	-3.84	
06 05 23 00-0333 EA 7-1/8" High With 3-1/4" Wide Tabs For 3-2X Studs, 16 Gauge, Galvanized Stud Shoe (Simpson Strong Tie® HSS2-3-SDS3).....	31.36	
<i>For >10 To 50, Deduct</i>	-0.10	
<i>For >50 To 100, Deduct</i>	-0.88	
<i>For >100 To 250, Deduct</i>	-1.76	
<i>For >250 To 500, Deduct</i>	-2.83	
<i>For >500, Deduct</i>	-4.01	
06 05 23 00-0334 EA 7-1/8" High With 3-1/4" Wide Tabs For 4X Studs, 16 Gauge, Galvanized Stud Shoe (Simpson Strong Tie® HSS4-SDS3).....	47.21	
<i>For >10 To 50, Deduct</i>	-0.10	
<i>For >50 To 100, Deduct</i>	-1.28	
<i>For >100 To 250, Deduct</i>	-2.55	
<i>For >250 To 500, Deduct</i>	-4.02	
<i>For >500, Deduct</i>	-5.60	
06 05 23 00-0335 Nail Stops <small>(06 05 23 00-0271)</small>		
06 05 23 00-0336 EA 1-1/2" Wide x 3" Long, 16 Gauge, Galvanized Nail Stops (Simpson Strong Tie® NS1).....	3.31	
<i>For >10 To 50, Deduct</i>	-0.06	
<i>For >50 To 100, Deduct</i>	-0.15	
<i>For >100 To 250, Deduct</i>	-0.29	
<i>For >250 To 500, Deduct</i>	-0.57	
<i>For >500, Deduct</i>	-0.92	
06 05 23 00-0337 EA 1-1/2" Wide x 6" Long, 16 Gauge, Galvanized Nail Stops (Simpson Strong Tie® NS2).....	3.45	
<i>For >10 To 50, Deduct</i>	-0.06	
<i>For >50 To 100, Deduct</i>	-0.15	
<i>For >100 To 250, Deduct</i>	-0.30	
<i>For >250 To 500, Deduct</i>	-0.58	
<i>For >500, Deduct</i>	-0.93	
06 05 73 Wood Treatment <small>(06 05)</small>		
06 05 73 13 Fire-Retardant Wood Treatment <small>(06 05 73)</small>		
06 05 73 13-0001 Preservative Treated Lumber <small>(06 05 73 13)</small>		
06 05 73 13-0002 Fire Retardant Treatment (FRT) For Lumber <small>(06 05 73 13-0001)</small>		
06 05 73 13-0003 MBF Fire Retardant Treatment (FRT) For Lumber.....	766.14	
06 05 73 33 Preservative Wood Treatment <small>(06 05 73)</small>		
06 05 73 33-0001 Preservative Treatment For Marine And Fresh Water Uses <small>(06 05 73 33)</small>		
06 05 73 33-0002 MBF Preservative Treatment For Marine And Fresh Water Lumber.....	157.64	

06 Wood, Plastics, and Composites**06 10 Rough Carpentry****06 05 73 Wood Treatment**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST**06 10 Rough Carpentry** ⁽⁰⁶⁾**06 11 Wood Framing** ^(06 10)

Note: All framing lumber is grade #2 or better unless otherwise listed. Dimensions are nominal. See CSI section 06 05 23 00-0000 for anchors and supports.

06 11 13 Engineered Wood Products ^(06 11)

Note: All framing lumber is grade #2 or better unless otherwise listed. Dimensions are nominal.

06 11 13 00-0001 Built-Up Members ^(06 11 13)

Note: A structural framing member made from fastening separate pieces of lumber together.

06 11 13 00-0002 Built-Up Beams Or Joists ^(06 11 13 00-0001)

06 11 13 00-0003	LF	Two 2" x 6" Built-up Wood Beam Or Joist.....	5.27	2.17
		<i>For Each Additional 2" x_ " In The Built Up Member, Add</i>	<i>0.97</i>	
06 11 13 00-0004	LF	Two 2" x 8" Built-up Wood Beam Or Joist.....	6.59	2.56
		<i>For Each Additional 2" x_ " In The Built Up Member, Add</i>	<i>1.38</i>	
06 11 13 00-0005	LF	Two 2" x 10" Built-up Wood Beam Or Joist.....	8.43	3.06
		<i>For Each Additional 2" x_ " In The Built Up Member, Add</i>	<i>1.91</i>	

06 11 13 00-0006 Built-Up Posts ^(06 11 13 00-0001)

06 11 13 00-0007	LF	Two 2" x 6" Built-up Wood Post.....	5.27	2.17
		<i>For Each Additional 2" x_ " In The Built Up Member, Add</i>	<i>0.97</i>	
06 11 13 00-0008	LF	Two 2" x 8" Built-up Wood Post.....	6.59	2.56
		<i>For Each Additional 2" x_ " In The Built Up Member, Add</i>	<i>1.38</i>	
06 11 13 00-0009	LF	Two 2" x 10" Built-up Wood Post.....	8.43	3.06
		<i>For Each Additional 2" x_ " In The Built Up Member, Add</i>	<i>1.91</i>	

06 11 16 Mechanically Graded Lumber ^(06 11)**06 11 16 00-0001 Rafters And Joists** ^(06 11 16)**06 11 16 00-0002 Rafters** ^(06 11 16 00-0001)

Note: An inclined roof framing member to which a roof covering is attached.

06 11 16 00-0003	LF	2" x 6" Wood Rafter.....	3.02	1.53
06 11 16 00-0004	LF	2" x 8" Wood Rafter.....	3.54	1.66
06 11 16 00-0005	LF	2" x 10" Wood Rafter.....	5.11	2.42
06 11 16 00-0006	LF	2" x 12" Wood Rafter.....	5.89	2.69
06 11 16 00-0007	LF	2" x 14" Wood Rafter.....	6.41	2.94
06 11 16 00-0008	LF	2" x 6" Pressure Treated Wood Rafter.....	3.28	1.53
06 11 16 00-0009	LF	2" x 8" Pressure Treated Wood Rafter.....	3.89	1.66
06 11 16 00-0010	LF	2" x 10" Pressure Treated Wood Rafter.....	5.33	2.42
06 11 16 00-0011	LF	2" x 12" Pressure Treated Wood Rafter.....	6.36	2.69

06 11 16 00-0012 Joists ^(06 11 16 00-0001)

Note: A series of parallel beams to support floors or ceilings.

06 11 16 00-0013	LF	2" x 6" Wood Floor Joist.....	2.63	1.28
06 11 16 00-0014	LF	2" x 8" Wood Floor Joist.....	3.29	1.41
06 11 16 00-0015	LF	2" x 10" Wood Floor Joist.....	4.21	1.79
06 11 16 00-0016	LF	2" x 12" Wood Floor Joist.....	5.00	2.05
06 11 16 00-0017	LF	2" x 14" Wood Floor Joist.....	5.51	2.17
06 11 16 00-0018	LF	2" x 6" Pressure Treated Wood Floor Joist.....	2.89	1.28
06 11 16 00-0019	LF	2" x 8" Pressure Treated Wood Floor Joist.....	3.64	1.41
06 11 16 00-0020	LF	2" x 10" Pressure Treated Wood Floor Joist.....	4.43	1.79
06 11 16 00-0021	LF	2" x 12" Pressure Treated Wood Floor Joist.....	5.47	2.05

06 11 16 00-0022 Purlins ^(06 11 16 00-0001)

Note: A horizontal structural member in a roof, supporting the loads from the roof deck or sheathing.

06 11 16 00-0023	LF	2" x 4" Wood Purlin.....	2.11	0.77
06 11 16 00-0024	LF	2" x 6" Wood Purlin.....	2.65	0.84
06 11 16 00-0025	LF	2" x 8" Wood Purlin.....	3.23	0.93
06 11 16 00-0026	LF	2" x 10" Wood Purlin.....	3.96	1.02
06 11 16 00-0027	LF	2" x 4" Pressure Treated Wood Purlin.....	2.27	0.77
06 11 16 00-0028	LF	2" x 6" Pressure Treated Wood Purlin.....	2.91	0.84
06 11 16 00-0029	LF	2" x 8" Pressure Treated Wood Purlin.....	3.58	0.93
06 11 16 00-0030	LF	2" x 10" Pressure Treated Wood Purlin.....	4.18	1.02

06 11 16 00-0031 Exposed Rafters Or Joists ^(06 11 16 00-0001)**06 11 16 00-0032 Redwood Rafters Or Joists** ^(06 11 16 00-0031)

06 11 16 00-0033	LF	2" x 6" Redwood Rafter Or Joist.....	4.05	1.28
06 11 16 00-0034	LF	2" x 8" Redwood Rafter Or Joist.....	4.95	1.41
06 11 16 00-0035	LF	2" x 10" Redwood Rafter Or Joist.....	6.17	1.79
06 11 16 00-0036	LF	2" x 12" Redwood Rafter Or Joist.....	7.49	2.05

06 11 16 00-0037 Cedar Rafters Or Joists ^(06 11 16 00-0031)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 11 16 00-0038 LF 2" x 6" Cedar Rafter Or Joist.....	2.64	1.28
06 11 16 00-0039 LF 2" x 8" Cedar Rafter Or Joist.....	2.96	1.41
06 11 16 00-0040 LF 2" x 10" Cedar Rafter Or Joist.....	3.41	1.79
06 11 16 00-0041 LF 2" x 12" Cedar Rafter Or Joist.....	3.86	2.05
06 11 16 00-0042 Oak Rafters Or Joists (06 11 16 00-0031)		
06 11 16 00-0043 LF 2" x 6" Oak Rafter Or Joist.....	3.22	1.28
06 11 16 00-0044 LF 2" x 8" Oak Rafter Or Joist.....	4.43	1.41
06 11 16 00-0045 LF 2" x 10" Oak Rafter Or Joist.....	5.76	1.79
06 11 16 00-0046 LF 2" x 12" Oak Rafter Or Joist.....	7.10	2.05
06 11 16 00-0047 Framing (06 11 16)		
06 11 16 00-0048 Partition Framing (06 11 16 00-0047)		
06 11 16 00-0049 LF 2" x 4" Wood Stud Framing, For Partition Walls	2.05	1.02
06 11 16 00-0050 LF 2" x 6" Wood Stud Framing, For Partition Walls	2.50	1.09
06 11 16 00-0051 LF 2" x 8" Wood Stud Framing, For Partition Walls	2.97	1.15
06 11 16 00-0052 LF 2" x 4" Pressure Treated Wood Stud Framing, For Partition Walls.....	2.21	1.02
06 11 16 00-0053 LF 2" x 6" Pressure Treated Wood Stud Framing, For Partition Walls.....	2.76	1.09
06 11 16 00-0054 LF 2" x 8" Pressure Treated Wood Stud Framing, For Partition Walls.....	3.32	1.15
06 11 16 00-0055 Wall Framing Assemblies By The SF (06 11 16 00-0047)		
Note: Includes single bottom and double top plates, center support bracing, vertical studs and appropriate fastening devices. Excludes blocking for wall mounted fixtures or cabinets. Per SF of wall area measures one side. Do not deduct for openings of less than 25 SF when calculating total wall square footage.		
06 11 16 00-0056 Wall Framing By The SF, 12" On Center (06 11 16 00-0055)		
06 11 16 00-0057 SF 2" x 4" At 12" On Center, Wood Wall Framing Assembly	2.66	1.24
For Up To 200, Add	0.90	
For >200 To 500, Add	0.45	
06 11 16 00-0058 SF 2" x 6" At 12" On Center, Wood Wall Framing Assembly	3.59	1.58
For Up To 200, Add	1.19	
For >200 To 500, Add	0.59	
06 11 16 00-0059 SF 2" x 8" At 12" On Center, Wood Wall Framing Assembly	4.78	2.11
For Up To 200, Add	1.58	
For >200 To 500, Add	0.79	
06 11 16 00-0060 Wall Framing By The SF, 16" On Center (06 11 16 00-0055)		
06 11 16 00-0061 SF 2" x 4" At 16" On Center, Wood Wall Framing Assembly	2.16	0.99
For Up To 200, Add	0.73	
For >200 To 500, Add	0.36	
06 11 16 00-0062 SF 2" x 6" At 16" On Center, Wood Wall Framing Assembly	2.97	1.32
For Up To 200, Add	0.98	
For >200 To 500, Add	0.49	
06 11 16 00-0063 SF 2" x 8" At 16" On Center, Wood Wall Framing Assembly	3.98	1.77
For Up To 200, Add	1.32	
For >200 To 500, Add	0.66	
06 11 16 00-0064 Wall Framing By The SF, 24" On Center (06 11 16 00-0055)		
06 11 16 00-0065 SF 2" x 4" At 24" On Center, Wood Wall Framing Assembly	1.71	0.78
For Up To 200, Add	0.57	
For >200 To 500, Add	0.29	
06 11 16 00-0066 SF 2" x 6" At 24" On Center, Wood Wall Framing Assembly	2.34	1.02
For Up To 200, Add	0.77	
For >200 To 500, Add	0.39	
06 11 16 00-0067 SF 2" x 8" At 24" On Center, Wood Wall Framing Assembly	3.12	1.37
For Up To 200, Add	1.03	
For >200 To 500, Add	0.52	
06 11 16 00-0068 Sills And Plates (06 11 16)		
06 11 16 00-0069 Sills (06 11 16 00-0068)		
Note: A horizontal member which rests on and is attached to the foundation.		
06 11 16 00-0070 LF 2" x 4" Wood Sill	3.45	1.92
06 11 16 00-0071 LF 2" x 6" Wood Sill	4.17	2.17
06 11 16 00-0072 LF 2" x 8" Wood Sill	4.98	2.42
06 11 16 00-0073 LF 2" x 4" Pressure Treated Wood Sill.....	3.61	1.92
06 11 16 00-0074 LF 2" x 6" Pressure Treated Wood Sill.....	4.43	2.17
06 11 16 00-0075 LF 2" x 8" Pressure Treated Wood Sill.....	5.33	2.42
06 11 16 00-0076 Plates (06 11 16 00-0068)		
Note: A horizontal member connecting and terminating studs, posts, joists, rafters, etc. such as the top and bottom plate on a stud framed partition wall.		
06 11 16 00-0077 LF 2" x 4" Wood Plate.....	3.45	1.92
06 11 16 00-0078 LF 2" x 6" Wood Plate.....	4.17	2.17
06 11 16 00-0079 LF 2" x 8" Wood Plate.....	4.95	2.42

06 Wood, Plastics, and Composites**06 10 Rough Carpentry****06 11 Wood Framing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 11 16 00-0080 LF 2" x 4" Pressure Treated Wood Plate	3.61	1.92
06 11 16 00-0081 LF 2" x 6" Pressure Treated Wood Plate	4.43	2.17
06 11 16 00-0082 LF 2" x 8" Pressure Treated Wood Plate	5.30	2.42
06 11 16 00-0083 Sills And Plates From Redwood (06 11 16 00-0083)		
06 11 16 00-0084 Construction Grade/Rough (06 11 16 00-0083)		
06 11 16 00-0085 LF 2" x 6" Redwood, Construction Grade/Rough	6.43	2.17
06 11 16 00-0086 LF 2" x 8" Redwood, Construction Grade/Rough	8.53	2.42
06 11 16 00-0087 LF 2" x 10" Redwood, Construction Grade/Rough	10.38	2.69
06 11 16 00-0088 LF 2" x 12" Redwood, Construction Grade/Rough	12.52	2.94
06 11 16 00-0089 Con Heart/Smooth (06 11 16 00-0083)		
06 11 16 00-0090 LF 2" x 6" Redwood, Con Heart/Smooth	7.80	2.17
06 11 16 00-0091 LF 2" x 8" Redwood, Con Heart/Smooth	10.59	2.42
06 11 16 00-0092 LF 2" x 10" Redwood, Con Heart/Smooth	13.87	2.69
06 11 16 00-0093 LF 2" x 12" Redwood, Con Heart/Smooth	16.68	2.94
06 11 16 00-0094 Suspended Ceiling Framing (06 11 16)		
06 11 16 00-0095 LF 1" x 2" Wood Suspended Ceiling Framing	2.82	1.66
06 11 16 00-0096 LF 1" x 3" Wood Suspended Ceiling Framing	3.09	1.79
06 11 16 00-0097 LF 1" x 4" Wood Suspended Ceiling Framing	3.24	1.92
06 11 16 00-0098 LF 2" x 2" Wood Suspended Ceiling Framing	3.34	1.92
06 11 16 00-0099 LF 2" x 4" Wood Suspended Ceiling Framing	3.97	2.17
06 11 16 00-0100 LF 1" x 2" Pressure Treated Wood Suspended Ceiling Framing	3.00	1.66
06 11 16 00-0101 LF 1" x 3" Pressure Treated Wood Suspended Ceiling Framing	3.11	1.79
06 11 16 00-0102 LF 1" x 4" Pressure Treated Wood Suspended Ceiling Framing	3.35	1.92
06 11 16 00-0103 LF 2" x 2" Pressure Treated Wood Suspended Ceiling Framing	3.47	1.92
06 11 16 00-0104 LF 2" x 4" Pressure Treated Wood Suspended Ceiling Framing	4.07	2.17
06 11 16 00-0105 Posts And Girts (06 11 16)		
06 11 16 00-0106 Posts (06 11 16 00-0105)		
Note: A vertical, upright framing member.		
06 11 16 00-0107 LF 4" x 4" Wood Post	5.07	2.42
06 11 16 00-0108 LF 4" x 5" Wood Post	5.80	2.81
06 11 16 00-0109 LF 4" x 6" Wood Post	6.39	3.06
06 11 16 00-0110 LF 6" x 6" Wood Post	7.10	3.33
06 11 16 00-0111 LF 8" x 8" Wood Post	7.83	3.45
06 11 16 00-0112 LF 10" x 10" Wood Post	8.55	3.97
06 11 16 00-0113 LF 4" x 4" Pressure Treated Wood Post	6.40	2.42
06 11 16 00-0114 LF 3" x 6" Pressure Treated Wood Post	7.35	3.06
06 11 16 00-0115 LF 4" x 6" Pressure Treated Wood Post	8.95	3.06
06 11 16 00-0116 LF 6" x 6" Pressure Treated Wood Post	12.39	3.33
06 11 16 00-0117 Girts (06 11 16 00-0105)		
Note: A horizontal member at intermediate level between columns, studs, or posts.		
06 11 16 00-0118 LF 2" x 4" Wood Girt	2.43	0.92
06 11 16 00-0119 LF 2" x 6" Wood Girt	2.99	1.01
06 11 16 00-0120 LF 2" x 8" Wood Girt	3.59	1.12
06 11 16 00-0121 LF 2" x 10" Wood Girt	4.37	1.23
06 11 16 00-0122 LF 4" x 4" Wood Girt	4.91	1.85
06 11 16 00-0123 LF 4" x 5" Wood Girt	5.63	2.07
06 11 16 00-0124 LF 4" x 6" Wood Girt	6.36	2.30
06 11 16 00-0125 LF 6" x 6" Wood Girt	7.08	2.54
06 11 16 00-0126 LF 8" x 8" Wood Girt	7.80	2.76
06 11 16 00-0127 LF 10" x 10" Wood Girt	8.53	3.00
06 11 16 00-0128 LF 2" x 4" Pressure Treated Wood Girt	2.59	0.92
06 11 16 00-0129 LF 2" x 6" Pressure Treated Wood Girt	3.25	1.01
06 11 16 00-0130 LF 2" x 8" Pressure Treated Wood Girt	3.94	1.12
06 11 16 00-0131 LF 2" x 10" Pressure Treated Wood Girt	4.59	1.23
06 11 16 00-0132 LF 4" x 4" Pressure Treated Wood Girt	6.40	1.85
06 11 16 00-0133 LF 3" x 6" Pressure Treated Wood Girt	7.35	2.30
06 11 16 00-0134 LF 4" x 6" Pressure Treated Wood Girt	8.95	2.30
06 11 16 00-0135 LF 6" x 6" Pressure Treated Wood Girt	12.39	2.54
06 11 16 00-0136 Construction Grade/Rough Redwood Posts (06 11 16 00-0105)		
06 11 16 00-0137 LF 4" x 4" Redwood, Construction Grade/Rough Post	9.91	2.42
For Smooth "Clear", Add	1.25	
06 11 16 00-0138 LF 4" x 5" Redwood, Construction Grade/Rough Post	11.92	2.81
For Smooth "Clear", Add	1.56	
06 11 16 00-0139 LF 4" x 6" Redwood, Construction Grade/Rough Post	13.98	3.06
For Smooth "Clear", Add	1.87	
06 11 16 00-0140 LF 4" x 8" Redwood, Construction Grade/Rough Post	17.29	3.16
For Smooth "Clear", Add	2.50	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 11 16 00-0141 LF 4" x 10" Redwood, Construction Grade/Rough Post..... <i>For Smooth "Clear", Add</i>	20.70 3.12	3.36
06 11 16 00-0142 LF 6" x 6" Redwood, Construction Grade/Rough Post..... <i>For Smooth "Clear", Add</i>	19.12 2.81	3.33
06 11 16 00-0143 LF 6" x 8" Redwood, Construction Grade/Rough Post..... <i>For Smooth "Clear", Add</i>	24.00 3.75	3.45
06 11 16 00-0144 LF 6" x 10" Redwood, Construction Grade/Rough Post..... <i>For Smooth "Clear", Add</i>	28.82 4.68	3.24
06 11 16 00-0145 LF 8" x 8" Redwood, Construction Grade/Rough Post..... <i>For Smooth "Clear", Add</i>	30.51 4.99	3.45
06 11 16 00-0146 Stair Stringers <small>(06 11 16)</small>		
06 11 16 00-0147 LF 2" x 10" Wood Stair Stringer	9.54	5.11
06 11 16 00-0148 LF 2" x 12" Wood Stair Stringer	11.29	6.01
06 11 16 00-0149 LF 2" x 10" Pressure Treated Wood Stair Stringer.....	9.80	5.11
06 11 16 00-0150 LF 2" x 12" Pressure Treated Wood Stair Stringer.....	11.73	6.01
06 11 16 00-0151 Blocking And Sleepers <small>(06 11 16)</small>		
06 11 16 00-0152 Blocking <small>(06 11 16 00-0151)</small>		
06 11 16 00-0153 Blocking To Wood <small>(06 11 16 00-0152)</small>		
06 11 16 00-0154 LF 2" x 4" Pressure Treated Wood Blocking To Wood	7.20	3.07
06 11 16 00-0155 LF 2" x 6" Pressure Treated Wood Blocking To Wood	8.53	3.38
06 11 16 00-0156 LF 2" x 8" Pressure Treated Wood Blocking To Wood	9.72	3.71
06 11 16 00-0157 LF 4" x 4" Pressure Treated Wood Blocking To Wood	11.24	4.09
06 11 16 00-0158 LF 4" x 6" Pressure Treated Wood Blocking To Wood	13.55	4.49
06 11 16 00-0159 LF 2" x 4" Wood Blocking To Wood	6.72	3.07
06 11 16 00-0160 LF 2" x 6" Wood Blocking To Wood	7.73	3.38
06 11 16 00-0161 LF 2" x 8" Wood Blocking To Wood	8.81	3.71
06 11 16 00-0162 LF 4" x 4" Wood Blocking To Wood	9.58	4.09
06 11 16 00-0163 LF 4" x 6" Wood Blocking To Wood	10.78	4.49
06 11 16 00-0164 Blocking To Steel <small>(06 11 16 00-0152)</small>		
06 11 16 00-0165 LF 2" x 4" Pressure Treated Wood Blocking To Steel.....	8.24	3.53
06 11 16 00-0166 LF 2" x 6" Pressure Treated Wood Blocking To Steel.....	9.72	3.89
06 11 16 00-0167 LF 2" x 8" Pressure Treated Wood Blocking To Steel.....	11.06	4.28
06 11 16 00-0168 LF 2" x 4" Wood Blocking To Steel	7.71	3.53
06 11 16 00-0169 LF 2" x 6" Wood Blocking To Steel	8.84	3.89
06 11 16 00-0170 LF 2" x 8" Wood Blocking To Steel	10.06	4.28
06 11 16 00-0171 Blocking To Concrete <small>(06 11 16 00-0152)</small>		
06 11 16 00-0172 LF 2" x 4" Pressure Treated Wood Blocking To Concrete	8.24	3.53
06 11 16 00-0173 LF 2" x 6" Pressure Treated Wood Blocking To Concrete	9.72	3.89
06 11 16 00-0174 LF 2" x 8" Pressure Treated Wood Blocking To Concrete	11.06	4.28
06 11 16 00-0175 LF 2" x 4" Wood Blocking To Concrete	7.71	3.53
06 11 16 00-0176 LF 2" x 6" Wood Blocking To Concrete	8.84	3.89
06 11 16 00-0177 LF 2" x 8" Wood Blocking To Concrete.....	10.06	4.28
06 11 16 00-0178 Pressure Treated Lattice <small>(06 11 16 00-0151)</small>		
06 11 16 00-0179 SF 3/4" Thick Pressure Treated Wood Lattice	7.87	2.69
06 11 16 00-0180 Sleepers <small>(06 11 16 00-0151)</small>		
06 11 16 00-0181 Sleepers To Wood <small>(06 11 16 00-0180)</small>		
06 11 16 00-0182 LF 1" x 2" Pressure Treated Wood Sleeper On Wood.....	1.33	0.45
06 11 16 00-0183 LF 1" x 3" Pressure Treated Wood Sleeper On Wood.....	1.44	0.51
06 11 16 00-0184 LF 1" x 4" Pressure Treated Wood Sleeper On Wood.....	1.70	0.58
06 11 16 00-0185 LF 2" x 4" Pressure Treated Wood Sleeper On Wood.....	2.47	0.70
06 11 16 00-0186 LF 2" x 6" Pressure Treated Wood Sleeper On Wood.....	3.31	0.77
06 11 16 00-0187 Sleepers To Concrete <small>(06 11 16 00-0180)</small>		
06 11 16 00-0188 LF 1" x 2" Pressure Treated Wood Sleeper On Concrete	1.37	0.45
06 11 16 00-0189 LF 1" x 3" Pressure Treated Wood Sleeper On Concrete	1.48	0.51
06 11 16 00-0190 LF 1" x 4" Pressure Treated Wood Sleeper On Concrete	1.76	0.58
06 11 16 00-0191 LF 2" x 4" Pressure Treated Wood Sleeper On Concrete	2.58	0.70
06 11 16 00-0192 LF 2" x 6" Pressure Treated Wood Sleeper On Concrete	3.49	0.77
06 11 16 00-0193 Roofing Nailers <small>(06 11 16)</small>		
06 11 16 00-0194 LF 2" x 4" Pressure Treated Lumber, For Roofing Nailers.....	3.68	1.02
06 11 16 00-0195 LF 2" x 6" Pressure Treated Lumber, For Roofing Nailers.....	4.29	1.09
06 11 16 00-0196 LF 2" x 8" Pressure Treated Lumber, For Roofing Nailers.....	4.92	1.15

06 Wood, Plastics, and Composites**06 10 Rough Carpentry****06 11 Wood Framing**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

06 11 16 00-0197	Roofing Sleepers <small>(06 11 16)</small>			
06 11 16 00-0198	LF 2" x 4" Pressure Treated Lumber, For Roofing Sleepers		1.70	
06 11 16 00-0199	LF 4" x 4" Pressure Treated Lumber, For Roofing Sleepers		4.59	
06 11 16 00-0200	LF 4" x 6" Pressure Treated Lumber, For Roofing Sleepers		6.64	
06 11 16 00-0201	LF 6" x 6" Pressure Treated Lumber, For Roofing Sleepers		9.88	
06 11 16 00-0202	Canopy Framing, Bridging, And Furring <small>(06 11 16)</small>			
06 11 16 00-0203	Wood And Steel Bridging <small>(06 11 16 00-0202)</small>			
06 11 16 00-0204	Wood Bridging <small>(06 11 16 00-0203)</small>			
06 11 16 00-0205	EA 1 Pair Wood Bridging, 1" x 3" Cross Type	10.35		4.48
	Note: For joists spaced at 16" on center.			
06 11 16 00-0206	EA 1 Pair Wood Bridging, 2" x 3" Cross Type	10.67		4.48
	Note: For joists spaced at 16" on center.			
06 11 16 00-0207	Steel Bridging <small>(06 11 16 00-0203)</small>			
06 11 16 00-0208	EA 1 Pair Steel Bridging, Wood Joists At 16" On Center	12.56		4.48
06 11 16 00-0209	EA 1 Pair Steel Bridging, Wood Joists At 24" On Center	12.52		4.48
06 11 16 00-0210	Light Framing, Trim And Furring <small>(06 11 16 00-0202)</small>			
06 11 16 00-0211	Pine/Spruce/Fir Light Framing, Trim And Furring <small>(06 11 16 00-0210)</small>			
	Note: S4S board, select grade 1			
06 11 16 00-0212	LF 1" x 1" Pine/Spruce/Fir Light Framing, Trim And Furring	2.28		1.05
06 11 16 00-0213	LF 1" x 2" Pine/Spruce/Fir Light Framing, Trim And Furring	2.56		1.15
06 11 16 00-0214	LF 1" x 4" Pine/Spruce/Fir Light Framing, Trim And Furring	2.97		1.27
06 11 16 00-0215	LF 1" x 6" Pine/Spruce/Fir Light Framing, Trim And Furring	3.30		1.39
06 11 16 00-0216	LF 1" x 8" Pine/Spruce/Fir Light Framing, Trim And Furring	3.65		1.53
06 11 16 00-0217	LF 1" x 10" Pine/Spruce/Fir Light Framing, Trim And Furring	4.05		1.68
06 11 16 00-0218	LF 2" x 2" Pine/Spruce/Fir Light Framing, Trim And Furring	3.32		1.39
06 11 16 00-0219	LF 2" x 4" Pine/Spruce/Fir Light Framing, Trim And Furring	3.70		1.53
06 11 16 00-0220	LF 2" x 6" Pine/Spruce/Fir Light Framing, Trim And Furring	4.35		1.68
06 11 16 00-0221	LF 2" x 8" Pine/Spruce/Fir Light Framing, Trim And Furring	5.08		1.86
06 11 16 00-0222	LF 2" x 10" Pine/Spruce/Fir Light Framing, Trim And Furring	5.99		2.05
06 11 16 00-0223	Cedar Light Framing, Trim And Furring <small>(06 11 16 00-0210)</small>			
	Note: S4S board, select grade 1			
06 11 16 00-0224	LF 1" x 1" Cedar Light Framing, Trim And Furring	2.31		1.05
06 11 16 00-0225	LF 1" x 2" Cedar Light Framing, Trim And Furring	2.72		1.15
06 11 16 00-0226	LF 1" x 4" Cedar Light Framing, Trim And Furring	3.58		1.27
06 11 16 00-0227	LF 1" x 6" Cedar Light Framing, Trim And Furring	4.36		1.39
06 11 16 00-0228	LF 1" x 8" Cedar Light Framing, Trim And Furring	6.43		1.53
06 11 16 00-0229	LF 1" x 10" Cedar Light Framing, Trim And Furring	7.60		1.68
06 11 16 00-0230	LF 2" x 2" Cedar Light Framing, Trim And Furring	3.72		1.39
06 11 16 00-0231	LF 2" x 4" Cedar Light Framing, Trim And Furring	4.30		1.53
06 11 16 00-0232	Oak Light Framing, Trim And Furring <small>(06 11 16 00-0210)</small>			
	Note: S4S board, select grade 1			
06 11 16 00-0233	LF 1" x 1" Oak Light Framing, Trim And Furring	2.32		1.05
06 11 16 00-0234	LF 1" x 2" Oak Light Framing, Trim And Furring	2.74		1.15
06 11 16 00-0235	LF 1" x 4" Oak Light Framing, Trim And Furring	3.43		1.27
06 11 16 00-0236	LF 1" x 6" Oak Light Framing, Trim And Furring	4.12		1.39
06 11 16 00-0237	LF 1" x 8" Oak Light Framing, Trim And Furring	4.84		1.53
06 11 16 00-0238	LF 1" x 10" Oak Light Framing, Trim And Furring	5.60		1.68
06 11 16 00-0239	LF 2" x 2" Oak Light Framing, Trim And Furring	3.68		1.39
06 11 16 00-0240	LF 2" x 4" Oak Light Framing, Trim And Furring	4.84		1.53
06 11 16 00-0241	Redwood Light Framing, Trim And Furring <small>(06 11 16 00-0210)</small>			
	Note: S4S board, select grade 1			
06 11 16 00-0242	LF 1" x 1" Redwood Light Framing, Trim And Furring	2.26		1.05
06 11 16 00-0243	LF 1" x 2" Redwood Light Framing, Trim And Furring	2.62		1.15
06 11 16 00-0244	LF 1" x 4" Redwood Light Framing, Trim And Furring	3.21		1.27
06 11 16 00-0245	LF 1" x 6" Redwood Light Framing, Trim And Furring	3.86		1.39
06 11 16 00-0246	LF 1" x 8" Redwood Light Framing, Trim And Furring	4.56		1.53
06 11 16 00-0247	LF 1" x 10" Redwood Light Framing, Trim And Furring	5.35		1.68
06 11 16 00-0248	LF 2" x 2" Redwood Light Framing, Trim And Furring	3.88		1.39
06 11 16 00-0249	LF 2" x 4" Redwood Light Framing, Trim And Furring	4.59		1.53
06 11 16 00-0250	Poplar Light Framing, Trim And Furring <small>(06 11 16 00-0210)</small>			
	Note: S4S board, select grade 1			
06 11 16 00-0251	LF 1" x 1" Poplar Light Framing, Trim And Furring	2.63		1.05
06 11 16 00-0252	LF 1" x 2" Poplar Light Framing, Trim And Furring	3.21		1.15



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 11 16 00-0253 LF 1" x 4" Poplar Light Framing, Trim And Furring	4.05	1.27
06 11 16 00-0254 LF 1" x 6" Poplar Light Framing, Trim And Furring	5.14	1.39
06 11 16 00-0255 LF 1" x 8" Poplar Light Framing, Trim And Furring	5.97	1.53
06 11 16 00-0256 LF 1" x 10" Poplar Light Framing, Trim And Furring	7.87	1.68
06 11 16 00-0257 LF 1" x 12" Poplar Light Framing, Trim And Furring	8.51	1.68
06 11 16 00-0258 LF 2" x 2" Poplar Light Framing, Trim And Furring	6.74	1.39
06 11 16 00-0259 LF 2" x 4" Poplar Light Framing, Trim And Furring	7.55	1.53
06 11 16 00-0260 LF 2" x 6" Poplar Light Framing, Trim And Furring	10.10	1.68
06 11 16 00-0261 Maple Light Framing, Trim And Furring (06 11 16 00-0210) Note: S4S board, select grade 1		
06 11 16 00-0262 LF 1" x 4" Maple Light Framing, Trim And Furring	5.05	1.27
06 11 16 00-0263 LF 1" x 6" Maple Light Framing, Trim And Furring	6.69	1.39
06 11 16 00-0264 LF 1" x 8" Maple Light Framing, Trim And Furring	8.37	1.53
06 15 Wood Decking (06 10)		
06 15 13 Wood Floor Decking (06 13)		
06 15 13 00-0001 Wood Deck Systems (06 15 13) Note: Includes the deck, joists, girders, railing posts 8' on-center, pickets and railing. Excludes ground posts.		
06 15 13 00-0002 Pressure Treated Wood Deck System (06 15 13 00-0001)		
06 15 13 00-0003 2" x 8" Joists At 16" On Center, Pressure Treated Wood Deck System (06 15 13 00-0002)		
06 15 13 00-0004 SF 5/4" x 4" Pressure Treated Decking, 2" x 8" Pressure Treated Joists 16" On Center, Wood Deck System	39.76	7.62
06 15 13 00-0005 SF 5/4" x 6" Pressure Treated Decking, 2" x 8" Pressure Treated Joists 16" On Center, Wood Deck System	38.49	7.24
06 15 13 00-0006 SF 2" x 4" Pressure Treated Decking, 2" x 8" Pressure Treated Joists 16" On Center, Wood Deck System	41.24	7.81
06 15 13 00-0007 SF 2" x 6" Pressure Treated Decking, 2" x 8" Pressure Treated Joists 16" On Center, Wood Deck System	39.97	7.43
06 15 13 00-0008 2" x 10" Joists At 16" On Center, Pressure Treated Wood Deck System (06 15 13 00-0002)		
06 15 13 00-0009 SF 5/4" x 4" Pressure Treated Decking, 2" x 10" Pressure Treated Joists 16" On Center, Wood Deck System	41.09	7.81
06 15 13 00-0010 SF 5/4" x 6" Pressure Treated Decking, 2" x 10" Pressure Treated Joists 16" On Center, Wood Deck System	39.77	7.42
06 15 13 00-0011 SF 2" x 4" Pressure Treated Decking, 2" x 10" Pressure Treated Joists 16" On Center, Wood Deck System	42.61	8.01
06 15 13 00-0012 SF 2" x 6" Pressure Treated Decking, 2" x 10" Pressure Treated Joists 16" On Center	41.31	7.61
06 15 13 00-0013 2" x 10" Joists At 24" On Center, Pressure Treated Wood Deck System (06 15 13 00-0002)		
06 15 13 00-0014 SF 5/4" x 4" Pressure Treated Decking, 2" x 10" Pressure Treated Joists 24" On Center, Wood Deck System	39.76	7.62
06 15 13 00-0015 SF 5/4" x 6" Pressure Treated Decking, 2" x 10" Pressure Treated Joists 24" On Center, Wood Deck System	38.49	7.24
06 15 13 00-0016 SF 2" x 4" Pressure Treated Decking, 2" x 10" Pressure Treated Joists 24" On Center, Wood Deck System	41.24	7.81
06 15 13 00-0017 SF 2" x 6" Pressure Treated Decking, 2" x 10" Pressure Treated Joists 24" On Center, Wood Deck System	39.97	7.43
06 15 13 00-0018 Redwood With Pressure Treated Joists, Wood Deck System (06 15 13 00-0001)		
06 15 13 00-0019 2" x 8" Joists At 16" On Center, Redwood With Pressure Treated Joists, Wood Deck System (06 15 13 00-0018)		
06 15 13 00-0020 SF 5/4" x 4" Redwood Decking, 2" x 8" Pressure Treated Joists 16" On Center, Wood Deck System	42.43	7.62
06 15 13 00-0021 SF 5/4" x 6" Redwood Decking, 2" x 8" Pressure Treated Joists 16" On Center, Wood Deck System	41.28	7.61
06 15 13 00-0022 SF 2" x 4" Redwood Decking, 2" x 8" Pressure Treated Joists 16" On Center, Wood Deck System	44.59	7.81
06 15 13 00-0023 SF 2" x 6" Redwood Decking, 2" x 8" Pressure Treated Joists 16" On Center, Wood Deck System	43.13	7.43
06 15 13 00-0024 2" x 10" Joists At 16" On Center, Redwood With Pressure Treated Joists, Wood Deck System (06 15 13 00-0018)		
06 15 13 00-0025 SF 5/4" x 4" Redwood Decking, 2" x 10" Pressure Treated Joists 16" On Center, Wood Deck System	45.28	7.81
06 15 13 00-0026 SF 5/4" x 6" Redwood Decking, 2" x 10" Pressure Treated Joists 16" On Center, Wood Deck System	44.09	7.42
06 15 13 00-0027 SF 2" x 4" Redwood Decking, 2" x 10" Pressure Treated Joists 16" On Center, Wood Deck System	47.62	8.01
06 15 13 00-0028 SF 2" x 6" Redwood Decking, 2" x 10" Pressure Treated Joists 16" On Center, Wood Deck System	46.15	7.61
06 15 13 00-0029 2" x 10" Joists At 24" On Center, Redwood With Pressure Treated Joists, Wood Deck System (06 15 13 00-0018)		
06 15 13 00-0030 SF 5/4" x 4" Redwood Decking, 2" x 10" Pressure Treated Joists 24" On Center, Wood Deck System	43.51	7.62
06 15 13 00-0031 SF 5/4" x 6" Redwood Decking, 2" x 10" Pressure Treated Joists 24" On Center, Wood Deck System	42.36	7.24
06 15 13 00-0032 SF 2" x 4" Redwood Decking, 2" x 10" Pressure Treated Joists 24" On Center, Wood Deck System	45.72	7.81
06 15 13 00-0033 SF 2" x 6" Redwood Decking, 2" x 10" Pressure Treated Joists 24" On Center, Wood Deck System	45.12	7.43
06 15 13 00-0034 Wood Ramp Systems (06 15 13) Note: Includes the decking, joists, girders, railing posts at corners and along ramp, pickets and railing. Excludes ground posts.		
06 15 13 00-0035 Pressure Treated Wood Ramp System (06 15 13 00-0034)		
06 15 13 00-0036 2" x 6" Joists, Pressure Treated Wood Ramp System (06 15 13 00-0035)		

06 Wood, Plastics, and Composites**06 10 Rough Carpentry****06 15 Wood Decking**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
06 15 13 00-0037	SF	5/4" x 4" Pressure Treated Decking, 2" x 6" Pressure Treated Joists, Wood Ramp System		46.30	7.43
06 15 13 00-0038	SF	5/4" x 6" Pressure Treated Decking, 2" x 6" Pressure Treated Joists, Wood Ramp System		44.66	7.06
06 15 13 00-0039	SF	2" x 4" Pressure Treated Decking, 2" x 6" Pressure Treated Joists, Wood Ramp System		47.92	7.62
06 15 13 00-0040	SF	2" x 6" Pressure Treated Decking, 2" x 6" Pressure Treated Joists, Wood Ramp System		46.29	7.24
06 15 13 00-0041		2" x 8" Joists, Pressure Treated Wood Ramp System <small>(06 15 13 00-0035)</small>			
06 15 13 00-0042	SF	5/4" x 4" Pressure Treated Decking, 2" x 8" Pressure Treated Joists, Wood Ramp System		47.76	7.62
06 15 13 00-0043	SF	5/4" x 6" Pressure Treated Decking, 2" x 8" Pressure Treated Joists, Wood Ramp System		46.10	7.24
06 15 13 00-0044	SF	2" x 4" Pressure Treated Decking, 2" x 8" Pressure Treated Joists, Wood Ramp System		49.46	7.81
06 15 13 00-0045	SF	2" x 6" Pressure Treated Decking, 2" x 8" Pressure Treated Joists, Wood Ramp System		47.78	7.43
06 15 13 00-0046		2" x 10" Joists, Pressure Treated Wood Ramp System <small>(06 15 13 00-0035)</small>			
06 15 13 00-0047	SF	5/4" x 4" Pressure Treated Decking, 2" x 10" Pressure Treated Joists, Wood Ramp System		49.28	7.80
06 15 13 00-0048	SF	5/4" x 6" Pressure Treated Decking, 2" x 10" Pressure Treated Joists, Wood Ramp System		47.58	7.42
06 15 13 00-0049	SF	2" x 4" Pressure Treated Decking, 2" x 10" Pressure Treated Joists, Wood Ramp System		51.03	8.01
06 15 13 00-0050	SF	2" x 6" Pressure Treated Decking, 2" x 10" Pressure Treated Joists, Wood Ramp System		49.32	7.61
06 15 13 00-0051		Redwood With Pressure Treated Joists, Wood Ramp System <small>(06 15 13 00-0034)</small>			
06 15 13 00-0052		2" x 6" Joists, Redwood With Pressure Treated Joists, Wood Ramp System <small>(06 15 13 00-0051)</small>			
06 15 13 00-0053	SF	5/4" x 4" Redwood Decking, 2" x 6" Pressure Treated Joists, Wood Ramp System		48.81	7.43
06 15 13 00-0054	SF	5/4" x 6" Redwood Decking, 2" x 6" Pressure Treated Joists, Wood Ramp System		47.29	7.06
06 15 13 00-0055	SF	2" x 4" Redwood Decking, 2" x 6" Pressure Treated Joists, Wood Ramp System		51.07	7.62
06 15 13 00-0056	SF	2" x 6" Redwood Decking, 2" x 6" Pressure Treated Joists, Wood Ramp System		49.25	7.24
06 15 13 00-0057		2" x 8" Joists, Redwood With Pressure Treated Joists, Wood Ramp System <small>(06 15 13 00-0051)</small>			
06 15 13 00-0058	SF	5/4" x 4" Redwood Decking, 2" x 8" Pressure Treated Joists, Wood Ramp System		50.43	7.62
06 15 13 00-0059	SF	5/4" x 6" Redwood Decking, 2" x 8" Pressure Treated Joists, Wood Ramp System		48.89	7.24
06 15 13 00-0060	SF	2" x 4" Redwood Decking, 2" x 8" Pressure Treated Joists, Wood Ramp System		52.81	7.81
06 15 13 00-0061	SF	2" x 6" Redwood Decking, 2" x 8" Pressure Treated Joists, Wood Ramp System		50.94	7.43
06 15 13 00-0062		2" x 10" Joists, Redwood With Pressure Treated Joists, Wood Ramp System <small>(06 15 13 00-0051)</small>			
06 15 13 00-0063	SF	5/4" x 4" Redwood Decking, 2" x 10" Pressure Treated Joists, Wood Ramp System		53.49	7.80
06 15 13 00-0064	SF	5/4" x 6" Redwood Decking, 2" x 10" Pressure Treated Joists, Wood Ramp System		51.90	7.42
06 15 13 00-0065	SF	2" x 4" Redwood Decking, 2" x 10" Pressure Treated Joists, Wood Ramp System		56.05	8.01
06 15 13 00-0066	SF	2" x 6" Redwood Decking, 2" x 10" Pressure Treated Joists, Wood Ramp System		54.71	7.61
06 15 13 00-0067		Cedar With Pressure Treated Joists, Wood Ramp System <small>(06 15 13 00-0034)</small>			
06 15 13 00-0068		2" x 6" Joists, Cedar With Pressure Treated Joists, Wood Ramp System <small>(06 15 13 00-0067)</small>			
06 15 13 00-0069	SF	5/4" x 4" Cedar Decking, 2" x 6" Pressure Treated Joists, Wood Ramp System		47.19	7.43
06 15 13 00-0070	SF	5/4" x 6" Cedar Decking, 2" x 6" Pressure Treated Joists, Wood Ramp System		45.59	7.06
06 15 13 00-0071	SF	2" x 4" Cedar Decking, 2" x 6" Pressure Treated Joists, Wood Ramp System		48.89	7.62
06 15 13 00-0072	SF	2" x 6" Cedar Decking, 2" x 6" Pressure Treated Joists, Wood Ramp System		47.30	7.24
06 15 13 00-0073		2" x 8" Joists, Cedar With Pressure Treated Joists, Wood Ramp System <small>(06 15 13 00-0067)</small>			
06 15 13 00-0074	SF	5/4" x 4" Cedar Decking, 2" x 8" Pressure Treated Joists, Wood Ramp System		48.71	7.62
06 15 13 00-0075	SF	5/4" x 6" Cedar Decking, 2" x 8" Pressure Treated Joists, Wood Ramp System		47.08	7.24
06 15 13 00-0076	SF	2" x 4" Cedar Decking, 2" x 8" Pressure Treated Joists, Wood Ramp System		50.48	7.81
06 15 13 00-0077	SF	2" x 6" Cedar Decking, 2" x 8" Pressure Treated Joists, Wood Ramp System		48.86	7.43
06 15 13 00-0078		2" x 10" Joists, Cedar With Pressure Treated Joists, Wood Ramp System <small>(06 15 13 00-0067)</small>			
06 15 13 00-0079	SF	5/4" x 4" Cedar Decking, 2" x 10" Pressure Treated Joists, Wood Ramp System		50.31	7.80
06 15 13 00-0080	SF	5/4" x 6" Cedar Decking, 2" x 10" Pressure Treated Joists, Wood Ramp System		48.64	7.42
06 15 13 00-0081	SF	2" x 4" Cedar Decking, 2" x 10" Pressure Treated Joists, Wood Ramp System		52.12	8.01
06 15 13 00-0082	SF	2" x 6" Cedar Decking, 2" x 10" Pressure Treated Joists, Wood Ramp System		50.46	7.61
06 15 13 00-0083		Wood Stair Systems <small>(06 15 13)</small>			
		Note: Includes the decking, joists, girders, railing posts at corners and along stairs, pickets and railing. Excludes ground posts.			
06 15 13 00-0084		Pressure Treated Wood Stair System <small>(06 15 13 00-0083)</small>			
06 15 13 00-0085		2" x 10" Joists, Pressure Treated Wood Stair System <small>(06 15 13 00-0084)</small>			
06 15 13 00-0086	RSR	3' Wide, 5/4" x 4" Pressure Treated Decking With 2" x 10" Pressure Treated Joists, Wood Stair System		125.77	18.28
06 15 13 00-0087	RSR	3' Wide, 5/4" x 6" Pressure Treated Decking With 2" x 10" Pressure Treated Joists, Wood Stair System		122.69	17.37
06 15 13 00-0088	RSR	3' Wide, 2" x 4" Pressure Treated Decking With 2" x 10" Pressure Treated Joists, Wood Stair System		129.65	18.76
06 15 13 00-0089	RSR	3' Wide, 2" x 6" Pressure Treated Decking With 2" x 10" Pressure Treated Joists, Wood Stair System		125.94	17.82



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 15 13 00-0090 RSR 3'-6" Wide, 5/4" x 4" Pressure Treated Decking With 2" x 10" Pressure Treated Joists, Wood Stair System	132.05	19.21
06 15 13 00-0091 RSR 3'-6" Wide, 5/4" x 6" Pressure Treated Decking With 2" x 10" Pressure Treated Joists, Wood Stair System	128.83	18.24
06 15 13 00-0092 RSR 3'-6" Wide, 2" x 4" Pressure Treated Decking With 2" x 10" Pressure Treated Joists, Wood Stair System	136.13	19.70
06 15 13 00-0093 RSR 3'-6" Wide, 2" x 6" Pressure Treated Decking With 2" x 10" Pressure Treated Joists, Wood Stair System	132.25	18.71
06 15 13 00-0094 RSR 4' Wide, 5/4" x 4" Pressure Treated Decking With 2" x 10" Pressure Treated Joists, Wood Stair System	138.50	20.16
06 15 13 00-0095 RSR 4' Wide, 5/4" x 6" Pressure Treated Decking With 2" x 10" Pressure Treated Joists, Wood Stair System	135.10	19.15
06 15 13 00-0096 RSR 4' Wide, 2" x 4" Pressure Treated Decking With 2" x 10" Pressure Treated Joists, Wood Stair System	142.78	20.68
06 15 13 00-0097 RSR 4' Wide, 2" x 6" Pressure Treated Decking With 2" x 10" Pressure Treated Joists, Wood Stair System	138.68	19.65
06 15 13 00-0098 RSR 5' Wide, 5/4" x 4" Pressure Treated Decking With 2" x 10" Pressure Treated Joists, Wood Stair System	147.07	21.18
06 15 13 00-0099 RSR 5' Wide, 5/4" x 6" Pressure Treated Decking With 2" x 10" Pressure Treated Joists, Wood Stair System	143.59	20.11
06 15 13 00-0100 RSR 5' Wide, 2" x 4" Pressure Treated Decking With 2" x 10" Pressure Treated Joists, Wood Stair System	151.63	21.71
06 15 13 00-0101 RSR 5' Wide, 2" x 6" Pressure Treated Decking With 2" x 10" Pressure Treated Joists, Wood Stair System	147.40	20.63
06 15 13 00-0102 2" x 12" Joists, Pressure Treated Wood Stair System <small>(06 15 13 00-0084)</small>		
06 15 13 00-0103 RSR 3' Wide, 5/4" x 4" Pressure Treated Decking With 2" x 12" Pressure Treated Joists, Wood Stair System	128.46	18.75
06 15 13 00-0104 RSR 3' Wide, 5/4" x 6" Pressure Treated Decking With 2" x 12" Pressure Treated Joists, Wood Stair System	124.79	17.81
06 15 13 00-0105 RSR 3' Wide, 2" x 4" Pressure Treated Decking With 2" x 12" Pressure Treated Joists, Wood Stair System	132.57	19.23
06 15 13 00-0106 RSR 3' Wide, 2" x 6" Pressure Treated Decking With 2" x 12" Pressure Treated Joists, Wood Stair System	128.83	18.26
06 15 13 00-0107 RSR 3'-6" Wide, 5/4" x 4" Pressure Treated Decking With 2" x 12" Pressure Treated Joists, Wood Stair System	134.88	19.69
06 15 13 00-0108 RSR 3'-6" Wide, 5/4" x 6" Pressure Treated Decking With 2" x 12" Pressure Treated Joists, Wood Stair System	131.04	18.70
06 15 13 00-0109 RSR 3'-6" Wide, 2" x 4" Pressure Treated Decking With 2" x 12" Pressure Treated Joists, Wood Stair System	139.20	20.18
06 15 13 00-0110 RSR 3'-6" Wide, 2" x 6" Pressure Treated Decking With 2" x 12" Pressure Treated Joists, Wood Stair System	135.28	19.17
06 15 13 00-0111 RSR 4' Wide, 5/4" x 4" Pressure Treated Decking With 2" x 12" Pressure Treated Joists, Wood Stair System	141.48	20.66
06 15 13 00-0112 RSR 4' Wide, 5/4" x 6" Pressure Treated Decking With 2" x 12" Pressure Treated Joists, Wood Stair System	137.43	19.64
06 15 13 00-0113 RSR 4' Wide, 2" x 4" Pressure Treated Decking With 2" x 12" Pressure Treated Joists, Wood Stair System	145.99	21.20
06 15 13 00-0114 RSR 4' Wide, 2" x 6" Pressure Treated Decking With 2" x 12" Pressure Treated Joists, Wood Stair System	141.87	20.14
06 15 13 00-0115 RSR 5' Wide, 5/4" x 4" Pressure Treated Decking With 2" x 12" Pressure Treated Joists, Wood Stair System	150.20	21.70
06 15 13 00-0116 RSR 5' Wide, 5/4" x 6" Pressure Treated Decking With 2" x 12" Pressure Treated Joists, Wood Stair System	146.01	20.62
06 15 13 00-0117 RSR 5' Wide, 2" x 4" Pressure Treated Decking With 2" x 12" Pressure Treated Joists, Wood Stair System	155.02	22.26
06 15 13 00-0118 RSR 5' Wide, 2" x 6" Pressure Treated Decking With 2" x 12" Pressure Treated Joists, Wood Stair System	150.76	21.15
06 15 13 00-0119 Redwood With Pressure Treated Joists, Wood Stair System <small>(06 15 13 00-0083)</small>		
06 15 13 00-0120 2" x 10" Joists, Redwood With Pressure Treated Joists, Wood Stair System <small>(06 15 13 00-0119)</small>		
06 15 13 00-0121 RSR 3' Wide, 5/4" x 4" Redwood Decking With 2" x 10" Pressure Treated Joists, Wood Stair System	140.62	18.28
06 15 13 00-0122 RSR 3' Wide, 5/4" x 6" Redwood Decking With 2" x 10" Pressure Treated Joists, Wood Stair System	137.40	17.37
06 15 13 00-0123 RSR 3' Wide, 2" x 4" Redwood Decking With 2" x 10" Pressure Treated Joists, Wood Stair System	145.43	18.76
06 15 13 00-0124 RSR 3' Wide, 2" x 6" Redwood Decking With 2" x 10" Pressure Treated Joists, Wood Stair System	142.18	17.82
06 15 13 00-0125 RSR 3'-6" Wide, 5/4" x 4" Redwood Decking With 2" x 10" Pressure Treated Joists, Wood Stair System	147.65	19.21
06 15 13 00-0126 RSR 3'-6" Wide, 5/4" x 6" Redwood Decking With 2" x 10" Pressure Treated Joists, Wood Stair System	144.28	18.24
06 15 13 00-0127 RSR 3'-6" Wide, 2" x 4" Redwood Decking With 2" x 10" Pressure Treated Joists, Wood Stair System	152.69	19.70
06 15 13 00-0128 RSR 3'-6" Wide, 2" x 6" Redwood Decking With 2" x 10" Pressure Treated Joists, Wood Stair System	149.30	18.71
06 15 13 00-0129 RSR 4' Wide, 5/4" x 4" Redwood Decking With 2" x 10" Pressure Treated Joists, Wood Stair System	154.80	20.16
06 15 13 00-0130 RSR 4' Wide, 5/4" x 6" Redwood Decking With 2" x 10" Pressure Treated Joists, Wood Stair System	151.25	19.15
06 15 13 00-0131 RSR 4' Wide, 2" x 4" Redwood Decking With 2" x 10" Pressure Treated Joists, Wood Stair System	160.10	20.68
06 15 13 00-0132 RSR 4' Wide, 2" x 6" Redwood Decking With 2" x 10" Pressure Treated Joists, Wood Stair System	156.50	19.65
06 15 13 00-0133 RSR 5' Wide, 5/4" x 4" Redwood Decking With 2" x 10" Pressure Treated Joists, Wood Stair System	164.99	21.18
06 15 13 00-0134 RSR 5' Wide, 5/4" x 6" Redwood Decking With 2" x 10" Pressure Treated Joists, Wood Stair System	161.34	20.11
06 15 13 00-0135 RSR 5' Wide, 2" x 4" Redwood Decking With 2" x 10" Pressure Treated Joists, Wood Stair System	170.67	21.71
06 15 13 00-0136 RSR 5' Wide, 2" x 6" Redwood Decking With 2" x 10" Pressure Treated Joists, Wood Stair System	167.00	20.63
06 15 13 00-0137 2" x 12" Joists, Redwood With Pressure Treated Joists, Wood Stair System <small>(06 15 13 00-0119)</small>		
06 15 13 00-0138 RSR 3' Wide, 5/4" x 4" Redwood Decking With 2" x 12" Pressure Treated Joists, Wood Stair System	138.94	18.75
06 15 13 00-0139 RSR 3' Wide, 5/4" x 6" Redwood Decking With 2" x 12" Pressure Treated Joists, Wood Stair System	135.64	17.81
06 15 13 00-0140 RSR 3' Wide, 2" x 4" Redwood Decking With 2" x 12" Pressure Treated Joists, Wood Stair System	143.48	19.23
06 15 13 00-0141 RSR 3' Wide, 2" x 6" Redwood Decking With 2" x 12" Pressure Treated Joists, Wood Stair System	140.24	18.26
06 15 13 00-0142 RSR 3'-6" Wide, 5/4" x 4" Redwood Decking With 2" x 12" Pressure Treated Joists, Wood Stair System	145.88	19.69
06 15 13 00-0143 RSR 3'-6" Wide, 5/4" x 6" Redwood Decking With 2" x 12" Pressure Treated Joists, Wood Stair System	142.43	18.70
06 15 13 00-0144 RSR 3'-6" Wide, 2" x 4" Redwood Decking With 2" x 12" Pressure Treated Joists, Wood Stair System	150.65	20.18
06 15 13 00-0145 RSR 3'-6" Wide, 2" x 6" Redwood Decking With 2" x 12" Pressure Treated Joists, Wood Stair System	147.26	19.17
06 15 13 00-0146 RSR 4' Wide, 5/4" x 4" Redwood Decking With 2" x 12" Pressure Treated Joists, Wood Stair System	152.97	20.66
06 15 13 00-0147 RSR 4' Wide, 5/4" x 6" Redwood Decking With 2" x 12" Pressure Treated Joists, Wood Stair System	149.33	19.64
06 15 13 00-0148 RSR 4' Wide, 2" x 4" Redwood Decking With 2" x 12" Pressure Treated Joists, Wood Stair System	157.95	21.20
06 15 13 00-0149 RSR 4' Wide, 2" x 6" Redwood Decking With 2" x 12" Pressure Treated Joists, Wood Stair System	154.40	20.14
06 15 13 00-0150 RSR 5' Wide, 5/4" x 4" Redwood Decking With 2" x 12" Pressure Treated Joists, Wood Stair System	162.85	21.70
06 15 13 00-0151 RSR 5' Wide, 5/4" x 6" Redwood Decking With 2" x 12" Pressure Treated Joists, Wood Stair System	159.10	20.62
06 15 13 00-0152 RSR 5' Wide, 2" x 4" Redwood Decking With 2" x 12" Pressure Treated Joists, Wood Stair System	168.18	22.26
06 15 13 00-0153 RSR 5' Wide, 2" x 6" Redwood Decking With 2" x 12" Pressure Treated Joists, Wood Stair System	164.53	21.15
06 15 13 00-0154 Wood Deck And Ramp Systems Repairs <small>(06 15 13)</small>		
Note: Includes removal of material and screws. Excludes anchors and bolts.		
06 15 13 00-0155 Deck Joist Or Girt <small>(06 15 13 00-0154)</small>		
See CSI section 06 11 16 00-0012 for treated wood joist replacement.		
06 15 13 00-0156 Deck Boards <small>(06 15 13 00-0154)</small>		
06 15 13 00-0157 LF 5/4" x 4" Round Edge Pressure Treated Deck Boards	2.33	0.98

06 Wood, Plastics, and Composites**06 10 Rough Carpentry****06 15 Wood Decking**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 15 13 00-0158 LF 5/4" x 6" Round Edge Pressure Treated Deck Boards.....	2.58	1.17
06 15 13 00-0159 LF 2" x 4" Round Edge Pressure Treated Deck Boards.....	2.47	1.17
06 15 13 00-0160 LF 2" x 6" Round Edge Pressure Treated Deck Boards.....	3.22	1.34
06 15 13 00-0161 LF 2" x 8" Round Edge Pressure Treated Deck Boards.....	4.10	1.61
06 15 13 00-0162 LF 2" x 10" Round Edge Pressure Treated Deck Boards.....	5.02	1.97
06 15 13 00-0163 LF 2" x 12" Round Edge Pressure Treated Deck Boards.....	6.18	2.32
06 15 13 00-0164 LF 2" x 4" Round Edge Cedar Deck Boards.....	2.97	1.17
06 15 13 00-0165 LF 2" x 6" Round Edge Cedar Deck Boards.....	3.85	1.34
06 15 13 00-0166 LF 2" x 4" Round Edge Redwood Deck Boards.....	3.26	1.17
06 15 13 00-0167 LF 2" x 6" Round Edge Redwood Deck Boards.....	4.28	1.34
06 15 13 00-0168 Deck Posts <small>(06 15 13 00-0154)</small> See CSI section 06 11 16 00-0105 for treated wood post replacement.		
06 15 13 00-0169 Deck Railing And Pickets <small>(06 15 13 00-0154)</small>		
06 15 13 00-0170 LF 2" x 4" Pressure Treated Deck Railing.....	2.47	1.17
06 15 13 00-0171 LF 2" x 2" Pressure Treated Deck Railing Picket.....	1.85	0.89
06 15 13 00-0172 LF 2" x 4" Cedar Deck Railing.....	2.97	1.17
06 15 13 00-0173 LF 2" x 2" Cedar Deck Railing Picket.....	2.24	0.89
06 15 13 00-0174 LF 2" x 4" Redwood Deck Railing.....	3.26	1.17
06 15 13 00-0175 LF 2" x 2" Redwood Deck Railing Picket.....	2.46	0.89
06 16 Sheathing <small>(06 10)</small>		
06 16 23 Subflooring <small>(06 16)</small>		
06 16 23 00-0001 Board Type Subflooring <small>(06 16 23)</small>		
06 16 23 00-0002 SF 1" x 8" Regular Surface Board Type Subfloor.....	3.62	1.02
Note: 4 Sides Laid In A Regular Pattern.		
For Water Resistant Coating Or Treatment, Add	0.08	
For Foil Backing, Add	0.13	
For Tongue And Groove, Add	0.09	
06 16 23 00-0003 SF 1" x 8" Diagonal Surface Board Type Subfloor.....	4.04	1.28
Note: 4 Sides Laid In A Diagonal Pattern.		
For Water Resistant Coating Or Treatment, Add	0.08	
For Foil Backing, Add	0.13	
For Tongue And Groove, Add	0.09	
06 16 23 00-0004 SF 1" x 10" Regular Surface Board Type Subfloor.....	3.47	0.89
Note: 4 sides laid in a regular pattern.		
For Water Resistant Coating Or Treatment, Add	0.08	
For Foil Backing, Add	0.14	
For Tongue And Groove, Add	0.10	
06 16 23 00-0005 SF 1" x 10" Diagonal Surface Board Type Subfloor.....	3.76	1.02
Note: 4 sides laid in a diagonal pattern.		
For Water Resistant Coating Or Treatment, Add	0.08	
For Foil Backing, Add	0.14	
For Tongue And Groove, Add	0.10	
06 16 33 Wood Board Sheathing <small>(06 16)</small>		
06 16 33 00-0001 Plywood <small>(06 16 33)</small>		
06 16 33 00-0002 Roof Decking <small>(06 16 33 00-0001)</small>		
06 16 33 00-0003 SF 3/8" Thick CDX Plywood Roof Decking.....	2.07	0.64
Note: Applied to wood rafters.		
For Shear Wall Construction, Add	0.30	
For Exterior CC Grade Plywood, Add	0.09	
For Application To Metal Studs, Joists, Or Rafters, Add	0.30	
For ACQ Preservative Treatment, Add	0.27	
For Selective Replacement <400 (Includes Removal Of Damaged Plywood And Fitting New Plywood To Size), Add	2.25	
For Fire Retardant Treatment, Add	0.45	
For >1,696 To 3,200, Deduct	-0.03	
For >3,200 To 6,400, Deduct	-0.05	
For >6,400 To 12,800, Deduct	-0.10	
For >12,800, Deduct	-0.14	
06 16 33 00-0004 SF 1/2" Thick CDX Plywood Roof Decking.....	2.33	0.77
Note: Applied to wood rafters.		
For Shear Wall Construction, Add	0.33	
For Exterior CC Grade Plywood, Add	0.10	
For Application To Metal Studs, Joists, Or Rafters, Add	0.33	
For ACQ Preservative Treatment, Add	0.33	
For Selective Replacement <400 (Includes Removal Of Damaged Plywood And Fitting New Plywood To Size), Add	2.46	
For Fire Retardant Treatment, Add	0.55	
For >1,696 To 3,200, Deduct	-0.04	
For >3,200 To 6,400, Deduct	-0.06	
For >6,400 To 12,800, Deduct	-0.12	
For >12,800, Deduct	-0.16	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 16 33 00-0005 SF 5/8" Thick CDX Plywood Roof Decking .....2.64		0.77
Note: Applied to wood rafters.		
For Shear Wall Construction, Add	0.35	
For Exterior CC Grade Plywood, Add	0.13	
For Application To Metal Studs, Joists, Or Rafters, Add	0.35	
For ACQ Preservative Treatment, Add	0.42	
For Selective Replacement <400 (Includes Removal Of Damaged Plywood And Fitting New Plywood To Size), Add	2.66	
For Fire Retardant Treatment, Add	0.69	
For >1,696 To 3,200, Deduct	-0.05	
For >3,200 To 6,400, Deduct	-0.08	
For >6,400 To 12,800, Deduct	-0.14	
For >12,800, Deduct	-0.19	
For Tongue And Groove, Add	0.06	
06 16 33 00-0006 SF 3/4" Thick CDX Plywood Roof Decking .....2.92		0.89
Note: Applied to wood rafters.		
For Shear Wall Construction, Add	0.38	
For Exterior CC Grade Plywood, Add	0.15	
For Application To Metal Studs, Joists, Or Rafters, Add	0.38	
For ACQ Preservative Treatment, Add	0.48	
For Selective Replacement <400 (Includes Removal Of Damaged Plywood And Fitting New Plywood To Size), Add	2.87	
For Fire Retardant Treatment, Add	0.80	
For >1,696 To 3,200, Deduct	-0.06	
For >3,200 To 6,400, Deduct	-0.09	
For >6,400 To 12,800, Deduct	-0.16	
For >12,800, Deduct	-0.22	
For Tongue And Groove, Add	0.07	
06 16 33 00-0007 SF 1" Thick CDX Plywood Roof Decking .....3.45		1.02
Note: Applied to wood rafters.		
For Shear Wall Construction, Add	0.42	
For Exterior CC Grade Plywood, Add	0.21	
For Application To Metal Studs, Joists, Or Rafters, Add	0.42	
For ACQ Preservative Treatment, Add	0.66	
For Selective Replacement <400 (Includes Removal Of Damaged Plywood And Fitting New Plywood To Size), Add	3.12	
For Fire Retardant Treatment, Add	1.08	
For >1,696 To 3,200, Deduct	-0.08	
For >3,200 To 6,400, Deduct	-0.12	
For >6,400 To 12,800, Deduct	-0.20	
For >12,800, Deduct	-0.27	
For Tongue And Groove, Add	0.10	
06 16 33 00-0008 Wall Sheathing (06 16 33 00-0001)		
06 16 33 00-0009 SF 1/4" Interior BC Plywood Wall Sheathing .....2.47		0.89
Note: Applied to wall studs.		
For Shear Wall Construction, Add	0.38	
For Exterior CC Grade Plywood, Add	0.08	
For Application To Metal Studs, Joists, Or Rafters, Add	0.38	
For Ceiling Installation, Add	0.19	
For Selective Replacement <400 (Includes Removal Of Damaged Plywood And Fitting New Plywood To Size), Add	2.87	
For Fire Retardant Treatment, Add	0.44	
For >1,696 To 3,200, Deduct	-0.03	
For >3,200 To 6,400, Deduct	-0.05	
For >6,400 To 12,800, Deduct	-0.11	
For >12,800, Deduct	-0.16	
06 16 33 00-0010 SF 5/16" Interior BC Plywood Wall Sheathing .....2.50		0.89
Note: Applied to wall studs.		
For Shear Wall Construction, Add	0.38	
For Exterior CC Grade Plywood, Add	0.09	
For Application To Metal Studs, Joists, Or Rafters, Add	0.38	
For Ceiling Installation, Add	0.19	
For Selective Replacement <400 (Includes Removal Of Damaged Plywood And Fitting New Plywood To Size), Add	2.87	
For Fire Retardant Treatment, Add	0.47	
For >1,696 To 3,200, Deduct	-0.04	
For >3,200 To 6,400, Deduct	-0.05	
For >6,400 To 12,800, Deduct	-0.11	
For >12,800, Deduct	-0.17	
06 16 33 00-0011 SF 3/8" Interior BC Plywood Wall Sheathing .....2.56		1.02
Note: Applied to wall studs.		
For Shear Wall Construction, Add	0.38	
For Exterior CC Grade Plywood, Add	0.10	
For Application To Metal Studs, Joists, Or Rafters, Add	0.38	
For Ceiling Installation, Add	0.19	
For Selective Replacement <400 (Includes Removal Of Damaged Plywood And Fitting New Plywood To Size), Add	2.87	
For Fire Retardant Treatment, Add	0.51	
For >1,696 To 3,200, Deduct	-0.04	
For >3,200 To 6,400, Deduct	-0.06	
For >6,400 To 12,800, Deduct	-0.12	
For >12,800, Deduct	-0.17	

06 Wood, Plastics, and Composites**06 10 Rough Carpentry****06 16 Sheathing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 16 33 00-0012	SF		1/2" Interior BC Plywood Wall Sheathing.....	2.85	1.02
			Note: Applied to wall studs.		
			For Shear Wall Construction, Add	0.41	
			For Exterior CC Grade Plywood, Add	0.12	
			For Application To Metal Studs, Joists, Or Rafters, Add	0.41	
			For Ceiling Installation, Add	0.20	
			For Selective Replacement <400 (Includes Removal Of Damaged Plywood And Fitting New Plywood To Size), Add	3.06	
			For Fire Retardant Treatment, Add	0.64	
			For >1,696 To 3,200, Deduct	-0.05	
			For >3,200 To 6,400, Deduct	-0.07	
			For >6,400 To 12,800, Deduct	-0.14	
			For >12,800, Deduct	-0.20	
06 16 33 00-0013	SF		5/8" Interior BC Plywood Wall Sheathing.....	3.19	1.15
			Note: Applied to wall studs.		
			For Shear Wall Construction, Add	0.44	
			For Exterior CC Grade Plywood, Add	0.15	
			For Application To Metal Studs, Joists, Or Rafters, Add	0.44	
			For Ceiling Installation, Add	0.22	
			For Selective Replacement <400 (Includes Removal Of Damaged Plywood And Fitting New Plywood To Size), Add	3.29	
			For Fire Retardant Treatment, Add	0.79	
			For >1,696 To 3,200, Deduct	-0.06	
			For >3,200 To 6,400, Deduct	-0.09	
			For >6,400 To 12,800, Deduct	-0.16	
			For >12,800, Deduct	-0.23	
06 16 33 00-0014	SF		3/4" Interior BC Plywood Wall Sheathing.....	3.50	1.28
			Note: Applied to wall studs.		
			For Shear Wall Construction, Add	0.47	
			For Exterior CC Grade Plywood, Add	0.17	
			For Application To Metal Studs, Joists, Or Rafters, Add	0.47	
			For Ceiling Installation, Add	0.24	
			For Selective Replacement <400 (Includes Removal Of Damaged Plywood And Fitting New Plywood To Size), Add	3.54	
			For Fire Retardant Treatment, Add	0.90	
			For >1,696 To 3,200, Deduct	-0.07	
			For >3,200 To 6,400, Deduct	-0.10	
			For >6,400 To 12,800, Deduct	-0.18	
			For >12,800, Deduct	-0.25	
06 16 33 00-0015			Floor Decking <small>(06 16 33 00-0001)</small>		
			Note: Includes patching of seams and all fastener holes where necessary.		
06 16 33 00-0016	SF		5/16" CD Grade Plywood Floor Decking.....	1.88	0.77
			Note: Applied to floor or joists.		
			For Selective Replacement <400 (Includes Removal Of Damaged Plywood And Fitting New Plywood To Size), Add	2.16	
			For Fire Retardant Treatment, Add	0.35	
			For >1,696 To 3,200, Deduct	-0.03	
			For >3,200 To 6,400, Deduct	-0.04	
			For >6,400 To 12,800, Deduct	-0.08	
			For >12,800, Deduct	-0.12	
			For ACQ Preservative Treatment, Add	0.21	
			For Fir Plywood, Add	0.08	
			For BC Grade Plywood, Add	0.07	
			For Exterior Glue, Add	0.04	
			For Marine Grade, Add	0.34	
06 16 33 00-0017	SF		3/8" CD Grade Plywood Floor Decking.....	1.98	0.77
			Note: Applied to floor or joists.		
			For Selective Replacement <400 (Includes Removal Of Damaged Plywood And Fitting New Plywood To Size), Add	2.27	
			For Fire Retardant Treatment, Add	0.37	
			For >1,696 To 3,200, Deduct	-0.03	
			For >3,200 To 6,400, Deduct	-0.04	
			For >6,400 To 12,800, Deduct	-0.09	
			For >12,800, Deduct	-0.13	
			For ACQ Preservative Treatment, Add	0.23	
			For Fir Plywood, Add	0.09	
			For BC Grade Plywood, Add	0.07	
			For Exterior Glue, Add	0.04	
			For Marine Grade, Add	0.37	
06 16 33 00-0018	SF		1/2" CD Grade Plywood Floor Decking.....	2.22	0.77
			Note: Applied to floor or joists.		
			For Selective Replacement <400 (Includes Removal Of Damaged Plywood And Fitting New Plywood To Size), Add	2.40	
			For Fire Retardant Treatment, Add	0.49	
			For >1,696 To 3,200, Deduct	-0.04	
			For >3,200 To 6,400, Deduct	-0.06	
			For >6,400 To 12,800, Deduct	-0.11	
			For >12,800, Deduct	-0.15	
			For ACQ Preservative Treatment, Add	0.30	
			For Fir Plywood, Add	0.11	
			For BC Grade Plywood, Add	0.09	
			For Exterior Glue, Add	0.06	
			For Marine Grade, Add	0.49	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 16 33 00-0019 SF 5/8" CD Grade Plywood Floor Decking.....	2.50	0.77
Note: Applied to floor or joists.		
For Selective Replacement <400 (Includes Removal Of Damaged Plywood And Fitting New Plywood To Size), Add	2.61	
For Fire Retardant Treatment, Add	0.60	
For >1,696 To 3,200, Deduct	-0.05	
For >3,200 To 6,400, Deduct	-0.07	
For >6,400 To 12,800, Deduct	-0.13	
For >12,800, Deduct	-0.18	
For ACQ Preservative Treatment, Add	0.36	
For Fir Plywood, Add	0.14	
For BC Grade Plywood, Add	0.11	
For Exterior Glue, Add	0.07	
For Marine Grade, Add	0.60	
06 16 33 00-0020 SF 3/4" CD Grade Plywood Floor Decking.....	2.82	0.77
Note: Applied to floor or joists.		
For Selective Replacement <400 (Includes Removal Of Damaged Plywood And Fitting New Plywood To Size), Add	2.78	
For Fire Retardant Treatment, Add	0.77	
For >1,696 To 3,200, Deduct	-0.06	
For >3,200 To 6,400, Deduct	-0.09	
For >6,400 To 12,800, Deduct	-0.15	
For >12,800, Deduct	-0.21	
For ACQ Preservative Treatment, Add	0.47	
For Fir Plywood, Add	0.18	
For BC Grade Plywood, Add	0.14	
For Exterior Glue, Add	0.09	
For Marine Grade, Add	0.76	
06 16 33 00-0021 SF 1-1/8" CD Grade Plywood Floor Decking.....	4.04	1.15
Note: Applied to floor or joists.		
For Selective Replacement <400 (Includes Removal Of Damaged Plywood And Fitting New Plywood To Size), Add	3.30	
For Fire Retardant Treatment, Add	1.45	
For >1,696 To 3,200, Deduct	-0.11	
For >3,200 To 6,400, Deduct	-0.17	
For >6,400 To 12,800, Deduct	-0.26	
For >12,800, Deduct	-0.33	
For ACQ Preservative Treatment, Add	0.88	
For Fir Plywood, Add	0.34	
For BC Grade Plywood, Add	0.27	
For Exterior Glue, Add	0.17	
For Marine Grade, Add	1.44	
06 16 33 00-0022 SF 1/2" AC Fir Plywood Floor Decking.....	2.59	0.77
Note: Applied to floor or joists.		
For Selective Replacement <400 (Includes Removal Of Damaged Plywood And Fitting New Plywood To Size), Add	2.40	
For Fire Retardant Treatment, Add	0.78	
For >1,696 To 3,200, Deduct	-0.06	
For >3,200 To 6,400, Deduct	-0.09	
For >6,400 To 12,800, Deduct	-0.15	
For >12,800, Deduct	-0.20	
For ACQ Preservative Treatment, Add	0.48	
For Exterior Glue, Add	0.09	
For Marine Grade, Add	0.78	
For Tongue And Groove, Add	0.07	
06 16 33 00-0023 SF 5/8" AC Fir Plywood Floor Decking.....	2.92	0.77
Note: Applied to floor or joists.		
For Selective Replacement <400 (Includes Removal Of Damaged Plywood And Fitting New Plywood To Size), Add	2.61	
For Fire Retardant Treatment, Add	0.93	
For >1,696 To 3,200, Deduct	-0.07	
For >3,200 To 6,400, Deduct	-0.11	
For >6,400 To 12,800, Deduct	-0.17	
For >12,800, Deduct	-0.23	
For ACQ Preservative Treatment, Add	0.57	
For Exterior Glue, Add	0.11	
For Marine Grade, Add	0.92	
For Tongue And Groove, Add	0.08	
06 16 33 00-0024 SF 3/4" AC Fir Plywood Floor Decking.....	3.13	0.77
Note: Applied to floor or joists.		
For Selective Replacement <400 (Includes Removal Of Damaged Plywood And Fitting New Plywood To Size), Add	2.78	
For Fire Retardant Treatment, Add	1.01	
For >1,696 To 3,200, Deduct	-0.08	
For >3,200 To 6,400, Deduct	-0.12	
For >6,400 To 12,800, Deduct	-0.19	
For >12,800, Deduct	-0.25	
For ACQ Preservative Treatment, Add	0.61	
For Exterior Glue, Add	0.12	
For Marine Grade, Add	1.00	
For Tongue And Groove, Add	0.09	
06 16 33 00-0025 Underlayment Grade <small>(06 16 33 00-0001)</small>		
Note: Includes patching of seams and all fastener holes where necessary.		
06 16 33 00-0026 SF 1/4" Thick Plywood Underlayment BC Grade	1.98	0.77
For Fire Retardant Treatment, Add	0.40	
For >1,696 To 3,200, Deduct	-0.03	
For >3,200 To 6,400, Deduct	-0.05	
For >6,400 To 12,800, Deduct	-0.08	
For >12,800, Deduct	-0.13	

06 Wood, Plastics, and Composites**06 10 Rough Carpentry****06 16 Sheathing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 16 33 00-0027 SF 3/8" Thick Plywood Underlayment BC Grade	2.11	0.77
For Fire Retardant Treatment, Add	0.44	
For >1,696 To 3,200, Deduct	-0.03	
For >3,200 To 6,400, Deduct	-0.05	
For >6,400 To 12,800, Deduct	-0.09	
For >12,800, Deduct	-0.14	
06 16 33 00-0028 SF 1/2" Thick Plywood Underlayment BC Grade	2.19	0.89
For Fire Retardant Treatment, Add	0.48	
For >1,696 To 3,200, Deduct	-0.04	
For >3,200 To 6,400, Deduct	-0.05	
For >6,400 To 12,800, Deduct	-0.09	
For >12,800, Deduct	-0.15	
06 16 33 00-0029 SF 5/8" Thick Plywood Underlayment BC Grade	2.49	0.89
For Fire Retardant Treatment, Add	0.57	
For >1,696 To 3,200, Deduct	-0.04	
For >3,200 To 6,400, Deduct	-0.06	
For >6,400 To 12,800, Deduct	-0.11	
For >12,800, Deduct	-0.17	
For Tongue And Groove, Add	0.05	
06 16 33 00-0030 SF 3/4" Thick Plywood Underlayment BC Grade	2.65	0.89
For Fire Retardant Treatment, Add	0.70	
For >1,696 To 3,200, Deduct	-0.05	
For >3,200 To 6,400, Deduct	-0.08	
For >6,400 To 12,800, Deduct	-0.12	
For >12,800, Deduct	-0.19	
For Tongue And Groove, Add	0.06	
06 16 33 00-0031 SF 1-1/8" Thick Plywood Underlayment BC Grade	3.31	1.02
For Fire Retardant Treatment, Add	1.05	
For >1,696 To 3,200, Deduct	-0.08	
For >3,200 To 6,400, Deduct	-0.12	
For >6,400 To 12,800, Deduct	-0.17	
For >12,800, Deduct	-0.26	
For Tongue And Groove, Add	0.09	
06 16 33 00-0032 SF 3/8" Thick CDX Plywood Underlayment Grade.....	2.24	0.77
For Fire Retardant Treatment, Add	0.55	
For >1,696 To 3,200, Deduct	-0.04	
For >3,200 To 6,400, Deduct	-0.06	
For >6,400 To 12,800, Deduct	-0.10	
For >12,800, Deduct	-0.16	
06 16 33 00-0033 SF 5/8" Thick CDX Plywood Underlayment Grade.....	2.78	0.89
For Fire Retardant Treatment, Add	0.82	
For >1,696 To 3,200, Deduct	-0.06	
For >3,200 To 6,400, Deduct	-0.09	
For >6,400 To 12,800, Deduct	-0.14	
For >12,800, Deduct	-0.21	
06 16 33 00-0034 Oriented Strand Board <small>(06 16 33)</small>		
06 16 33 00-0035 On Roof <small>(06 16 33 00-0034)</small>		
06 16 33 00-0036 SF 3/8" Thick Structural Oriented Strand Board (OSB) On Roof.....	1.94	0.77
For >1,408 To 3,200, Deduct	-0.03	
For >3,200 To 6,400, Deduct	-0.04	
For >6,400 To 12,800, Deduct	-0.09	
For >12,800, Deduct	-0.13	
For Fire Retardant Treatment, Add	0.35	
For Selective Replacement <400 (Includes Removal Of Damaged OSB And Fitting New OSB To Size), Add	2.25	
06 16 33 00-0037 SF 1/2" Thick Structural Oriented Strand Board (OSB) On Roof.....	2.16	0.77
For >1,408 To 3,200, Deduct	-0.03	
For >3,200 To 6,400, Deduct	-0.05	
For >6,400 To 12,800, Deduct	-0.10	
For >12,800, Deduct	-0.14	
For Fire Retardant Treatment, Add	0.41	
For Selective Replacement <400 (Includes Removal Of Damaged OSB And Fitting New OSB To Size), Add	2.46	
06 16 33 00-0038 SF 5/8" Thick Structural Oriented Strand Board (OSB) On Roof.....	2.52	0.89
For >1,408 To 3,200, Deduct	-0.05	
For >3,200 To 6,400, Deduct	-0.07	
For >6,400 To 12,800, Deduct	-0.13	
For >12,800, Deduct	-0.18	
For Fire Retardant Treatment, Add	0.59	
For Selective Replacement <400 (Includes Removal Of Damaged OSB And Fitting New OSB To Size), Add	2.66	
06 16 33 00-0039 SF 3/4" Thick Structural Oriented Strand Board (OSB) On Roof.....	2.90	0.89
For >1,408 To 3,200, Deduct	-0.06	
For >3,200 To 6,400, Deduct	-0.09	
For >6,400 To 12,800, Deduct	-0.16	
For >12,800, Deduct	-0.21	
For Fire Retardant Treatment, Add	0.78	
For Selective Replacement <400 (Includes Removal Of Damaged OSB And Fitting New OSB To Size), Add	2.87	
06 16 33 00-0040 On Walls <small>(06 16 33 00-0034)</small>		



Wood, Plastics, and Composites			06
Rough Carpentry			06 10
Sheathing			06 16

06

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 16 33 00-0041 SF 3/8" Thick Structural Oriented Strand Board (OSB) On Walls <i>For >1,408 To 3,200, Deduct</i> <i>For >3,200 To 6,400, Deduct</i> <i>For >6,400 To 12,800, Deduct</i> <i>For >12,800, Deduct</i> <i>For Fire Retardant Treatment, Add</i> <i>For Selective Replacement <400 (Includes Removal Of Damaged OSB And Fitting New OSB To Size), Add</i>	2.35 -0.03 -0.04 -0.10 -0.15 0.35 2.87	0.89
06 16 33 00-0042 SF 1/2" Thick Structural Oriented Strand Board (OSB) On Walls <i>For >1,408 To 3,200, Deduct</i> <i>For >3,200 To 6,400, Deduct</i> <i>For >6,400 To 12,800, Deduct</i> <i>For >12,800, Deduct</i> <i>For Fire Retardant Treatment, Add</i> <i>For Selective Replacement <400 (Includes Removal Of Damaged OSB And Fitting New OSB To Size), Add</i>	2.56 -0.03 -0.05 -0.11 -0.16 0.41 3.06	1.02
06 16 33 00-0043 SF 5/8" Thick Structural Oriented Strand Board (OSB) On Walls <i>For >1,408 To 3,200, Deduct</i> <i>For >3,200 To 6,400, Deduct</i> <i>For >6,400 To 12,800, Deduct</i> <i>For >12,800, Deduct</i> <i>For Fire Retardant Treatment, Add</i> <i>For Selective Replacement <400 (Includes Removal Of Damaged OSB And Fitting New OSB To Size), Add</i>	2.94 -0.05 -0.07 -0.14 -0.20 0.59 3.29	1.15
06 16 33 00-0044 SF 3/4" Thick Structural Oriented Strand Board (OSB) On Walls <i>For >1,408 To 3,200, Deduct</i> <i>For >3,200 To 6,400, Deduct</i> <i>For >6,400 To 12,800, Deduct</i> <i>For >12,800, Deduct</i> <i>For Fire Retardant Treatment, Add</i> <i>For Selective Replacement <400 (Includes Removal Of Damaged OSB And Fitting New OSB To Size), Add</i>	3.35 -0.06 -0.09 -0.17 -0.24 0.78 3.54	1.15
06 16 33 00-0045 On Floors <small>(06 16 33 00-0034)</small> Note: Includes patching of seams and all fastener holes where necessary.		
06 16 33 00-0046 SF 3/8" Thick Structural Oriented Strand Board (OSB) On Floors <i>For >1,408 To 3,200, Deduct</i> <i>For >3,200 To 6,400, Deduct</i> <i>For >6,400 To 12,800, Deduct</i> <i>For >12,800, Deduct</i> <i>For Fire Retardant Treatment, Add</i> <i>For Selective Replacement <400 (Includes Removal Of Damaged OSB And Fitting New OSB To Size), Add</i>	1.98 -0.03 -0.04 -0.09 -0.13 0.35 2.31	0.77
06 16 33 00-0047 SF 1/2" Thick Structural Oriented Strand Board (OSB) On Floors <i>For >1,408 To 3,200, Deduct</i> <i>For >3,200 To 6,400, Deduct</i> <i>For >6,400 To 12,800, Deduct</i> <i>For >12,800, Deduct</i> <i>For Fire Retardant Treatment, Add</i> <i>For Selective Replacement <400 (Includes Removal Of Damaged OSB And Fitting New OSB To Size), Add</i>	2.37 -0.03 -0.05 -0.10 -0.15 0.41 2.78	0.89
06 16 33 00-0048 SF 5/8" Thick Structural Oriented Strand Board (OSB) On Floors <i>For >1,408 To 3,200, Deduct</i> <i>For >3,200 To 6,400, Deduct</i> <i>For >6,400 To 12,800, Deduct</i> <i>For >12,800, Deduct</i> <i>For Fire Retardant Treatment, Add</i> <i>For Selective Replacement <400 (Includes Removal Of Damaged OSB And Fitting New OSB To Size), Add</i>	2.76 -0.05 -0.07 -0.13 -0.19 0.59 3.02	1.02
06 16 33 00-0049 SF 3/4" Thick Structural Oriented Strand Board (OSB) On Floors <i>For >1,408 To 3,200, Deduct</i> <i>For >3,200 To 6,400, Deduct</i> <i>For >6,400 To 12,800, Deduct</i> <i>For >12,800, Deduct</i> <i>For Fire Retardant Treatment, Add</i> <i>For Selective Replacement <400 (Includes Removal Of Damaged OSB And Fitting New OSB To Size), Add</i>	3.18 -0.06 -0.09 -0.16 -0.23 0.78 3.29	1.15
06 16 33 00-0050 Particle Board <small>(06 16 33)</small>		
06 16 33 00-0051 Particle Board Floor Decking <small>(06 16 33 00-0050)</small> Note: Includes patching of seams and all fastener holes where necessary.		
06 16 33 00-0052 SF 3/8" Particle Board Floor Decking Note: Applied to plywood subfloor. <i>For Fire Retardant Treatment Add</i> <i>For >1,536 To 3,200, Deduct</i> <i>For >3,200 To 6,400, Deduct</i> <i>For >6,400 To 12,800, Deduct</i> <i>For >12,800, Deduct</i> <i>For Tongue And Groove, Add</i>	2.15 0.51 -0.04 -0.06 -0.11 -0.15 0.04	0.64
06 16 33 00-0053 SF 1/2" Particle Board Floor Decking Note: Applied to plywood subfloor. <i>For Fire Retardant Treatment Add</i> <i>For >1,536 To 3,200, Deduct</i> <i>For >3,200 To 6,400, Deduct</i> <i>For >6,400 To 12,800, Deduct</i> <i>For >12,800, Deduct</i> <i>For Tongue And Groove, Add</i>	2.46 0.69 -0.05 -0.08 -0.14 -0.18 0.06	0.64

06 Wood, Plastics, and Composites**06 10 Rough Carpentry****06 16 Sheathing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 16 33 00-0054	SF		5/8" Particle Board Floor Decking.....	2.77	0.77
			Note: Applied to plywood subfloor.		
			For Fire Retardant Treatment Add	0.86	
			For >1,536 To 3,200, Deduct	-0.07	
			For >3,200 To 6,400, Deduct	-0.10	
			For >6,400 To 12,800, Deduct	-0.16	
			For >12,800, Deduct	-0.21	
			For Tongue And Groove, Add	0.08	
06 16 33 00-0055	SF		3/4" Particle Board Floor Decking.....	3.07	0.77
			Note: Applied to plywood subfloor.		
			For Fire Retardant Treatment Add	1.01	
			For >1,536 To 3,200, Deduct	-0.08	
			For >3,200 To 6,400, Deduct	-0.12	
			For >6,400 To 12,800, Deduct	-0.19	
			For >12,800, Deduct	-0.24	
			For Tongue And Groove, Add	0.09	
06 16 43			Gypsum Sheathing <small>(06 16)</small>		
06 16 43 00-0001			Exterior Gypsum Sheathing <small>(06 16 43)</small>		
			Note: Includes moisture resistant core and fiberglass mats on both sides and long edges.		
06 16 43 00-0002	SF		1/2" Exterior Gypsum Sheathing (GP Dens-Glass Gold).....	3.29	1.02
			For Application To Metal Studs, Joists, Or Rafters, Add	0.41	
			For Ceiling Installation, Add	0.20	
			For >1,696 To 3,200, Deduct	-0.08	
			For >3,200 To 6,400, Deduct	-0.11	
			For >6,400 To 12,800, Deduct	-0.19	
			For >12,800, Deduct	-0.25	
			For Selective Replacement <400 (Includes Removal Of Damaged Gypsum And Fitting New Gypsum To Size), Add	3.06	
06 16 43 00-0003	SF		5/8" Exterior Gypsum Sheathing (GP Dens-Glass Gold).....	3.55	1.28
			For Application To Metal Studs, Joists, Or Rafters, Add	0.44	
			For Ceiling Installation, Add	0.22	
			For >1,696 To 3,200, Deduct	-0.08	
			For >3,200 To 6,400, Deduct	-0.12	
			For >6,400 To 12,800, Deduct	-0.20	
			For >12,800, Deduct	-0.27	
			For Selective Replacement <400 (Includes Removal Of Damaged Gypsum And Fitting New Gypsum To Size), Add	3.29	

END OF SECTION 06



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
------------------------------	---------------------------	-------------------------

07 Thermal And Moisture Protection

07 01 Operation and Maintenance of Thermal and Moisture Protection ⁽⁰⁷⁾

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

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

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

07 01 50 19-0002	SQ	Removal Of Pea Gravel Ballast From Roof, Vacuum And Disposal	36.27
07 01 50 19-0003	SQ	Removal Of Gravel Ballast From Roof, Vacuum And Disposal	64.00

07 01 50 81 Roof Replacement ^(07 01 50)

07 01 50 81-0001 Roof Repair ^(07 01 50 81)

Note: Less than 100 SF areas. Excludes mobilization of crew for small quantity of roof work. See CSI section 07 05 13 00-0001 for mobilization of crew for small quantity of roof work.

07 01 50 81-0002	SF	Up To 10 SF Roof Repair, Built-Up Roofing	24.15
07 01 50 81-0003	SF	>10 To 25 SF Roof Repair, Built-Up Roofing	21.65
07 01 50 81-0004	SF	>25 To 50 SF Roof Repair, Built-Up Roofing	19.71
07 01 50 81-0005	SF	>50 To 100 SF Roof Repair, Built-Up Roofing	18.34
07 01 50 81-0006	SF	Up To 10 SF Roof Repair, Membrane Roofing	27.33
07 01 50 81-0007	SF	>10 To 25 SF Roof Repair, Membrane Roofing	24.84
07 01 50 81-0008	SF	>25 To 50 SF Roof Repair, Membrane Roofing	22.90
07 01 50 81-0009	SF	>50 To 100 SF Roof Repair, Membrane Roofing	21.52
07 01 50 81-0010	SF	Up To 10 SF Roof Repair, Shingle Roofing	20.97
07 01 50 81-0011	SF	>10 To 25 SF Roof Repair, Shingle Roofing	18.79
07 01 50 81-0012	SF	>25 To 50 SF Roof Repair, Shingle Roofing	17.17
07 01 50 81-0013	SF	>50 To 100 SF Roof Repair, Shingle Roofing	16.11
07 01 50 81-0014	LF	Heat Weld Roofing Seams For Repair	7.51

07 01 50 81-0015 Emergency Roof Patch ^(07 01 50 81)

Note: 4 Hour response time.

07 01 50 81-0016	EA	Granule Emergency Roof Patch Cover 16 SF	98.87
07 01 50 81-0017	EA	Mobilize For Emergency Roof Patching	703.44

07 01 50 81-0018 Adhesives ^(07 01 50 81)

Note: For repair of seams.

07 01 50 81-0019 Mastic Sealer ^(07 01 50 81-0018)

07 01 50 81-0020 Applied At Joints Only ^(07 01 50 81-0019)

07 01 50 81-0021	LF	Mastic Sealer, 1/4" Bead At Joint	4.64
------------------	----	---	------

2.00

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

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

07 01 50 91-0002	SF	Up To 2,500 PSI, Pressure Wash Membrane Roofing	0.15
		<i>For Up To 100, Add</i>	<i>0.11</i>
		<i>For >100 To 250, Add</i>	<i>0.05</i>
		<i>For >250 To 500, Add</i>	<i>0.02</i>
		<i>For >5,000 To 10,000, Deduct</i>	<i>-0.01</i>
		<i>For >10,000 To 15,000, Deduct</i>	<i>-0.02</i>
		<i>For >15,000 To 30,000, Deduct</i>	<i>-0.02</i>
		<i>For >30,000, Deduct</i>	<i>-0.03</i>

07 05 Common Work Results for Thermal and Moisture Protection ⁽⁰⁷⁾

07 05 13 Mobilization Of Crew For Small Quantity Of Roof Work ^(07 05)

07 05 13 00-0001 Mobilization Of Crew For Small Quantity Of Roof Work ^(07 05 13)

Note: For use with all roofing tasks where the total quantity of roof work is 4 squares or less.

07 05 13 00-0002	EA	Up To 1 SQ, Mobilization Of Crew For Small Quantity Of Roof Work	1,409.14
07 05 13 00-0003	EA	>1 To 2 SQ, Mobilization Of Crew For Small Quantity Of Roof Work	1,054.33
07 05 13 00-0004	EA	>2 To 3 SQ, Mobilization Of Crew For Small Quantity Of Roof Work	704.57
07 05 13 00-0005	EA	>3 To 4 SQ, Mobilization Of Crew For Small Quantity Of Roof Work	351.44

07 10 Dampproofing and Waterproofing ⁽⁰⁷⁾

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

07 Thermal And Moisture Protection**07 10 Dampproofing and Waterproofing**

07 05 13 Mobilization Of Crew For Small Quantity Of Roof Work

MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

the absence of hydrostatic pressure.

07 11 Dampproofing (07 10)**07 11 13 Bituminous Dampproofing** (07 11)**07 11 13 00-0001 Fibrous Asphalt Dampproofing, Brush, Roller Or Spray** (07 11 13)

07 11 13 00-0002 CSF 1 Coat, Fibrous Asphalt Dampproofing, Brush, Roller Or Spray180.23
 07 11 13 00-0003 CSF 2 Coats, Brush, Roller Or Spray, Fibrous Asphalt Dampproofing274.02

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

07 11 13 00-0005 CSF Primer And 1 Coat, Fibrous Asphalt Dampproofing, Troweled On312.61
 07 11 13 00-0006 CSF Primer And 2 Coats, Troweled On, Fibrous Asphalt Dampproofing489.23

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

07 11 13 00-0008 CSF 1 Coat, Asphaltic Paint Dampproofing, Brushed On143.61
 07 11 13 00-0009 CSF 2 Coats, Brushed On, Asphaltic Paint Dampproofing266.10

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

07 11 19 00-0002 SF 1/16" Patch Neoprene Roof (5 To 20 SF)37.58

07 13 Sheet Waterproofing (07 10)**07 13 13 Bituminous Sheet Waterproofing** (07 13)**07 13 13 00-0001 15 LB Asphalt Saturated Organic Felt Sheet Waterproofing, Hot-Mopped** (07 13 13)

07 13 13 00-0002 CSF 1 Ply, 15 LB Asphalt Saturated Organic Felt Sheet Waterproofing, Hot-Mopped328.89 113.15
For 30 LB Felt, Add 76.93
For Application To Horizontal Surfaces, Deduct -33.95
 07 13 13 00-0003 CSF 2 Ply, 15 LB Asphalt Saturated Organic Felt Sheet Waterproofing, Hot-Mopped416.01 127.30
For 30 LB Felt, Add 121.05
For Application To Horizontal Surfaces, Deduct -38.19
 07 13 13 00-0004 CSF 3 Ply, 15 LB Asphalt Saturated Organic Felt Sheet Waterproofing, Hot-Mopped503.13 141.44
For 30 LB Felt, Add 165.18
For Application To Horizontal Surfaces, Deduct -42.43
 07 13 13 00-0005 CSF 4 Ply, 15 LB Asphalt Saturated Organic Felt Sheet Waterproofing, Hot-Mopped590.25 155.59
For 30 LB Felt, Add 209.30
For Application To Horizontal Surfaces, Deduct -46.68
 07 13 13 00-0006 CSF 5 Ply, 15 LB Asphalt Saturated Organic Felt Sheet Waterproofing, Hot-Mopped677.37 169.74
For 30 LB Felt, Add 253.43
For Application To Horizontal Surfaces, Deduct -50.92

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

07 13 13 00-0008 CSF 1/8" Asphalt Coated Protective Board280.63 112.90
For Application To Horizontal Surfaces, Deduct -37.65
 07 13 13 00-0009 CSF 1/4" Asphalt Coated Protective Board372.50 117.24
For Application To Horizontal Surfaces, Deduct -39.08
 07 13 13 00-0010 CSF 3/8" Asphalt Coated Protective Board483.20 122.17
For Application To Horizontal Surfaces, Deduct -40.71
 07 13 13 00-0011 CSF 1/2" Asphalt Coated Protective Board539.67 127.09
For Application To Horizontal Surfaces, Deduct -42.37

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

07 13 53 00-0002 SF 215 Mil Rubberized Asphalt Membrane Sheet, Vertical Surface7.79 1.17
For Floor Surfaces, Deduct -1.15

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

07 13 53 00-0004 CSF 45 Mil Ethylene Propylene Diene Monomer (EPDM) Membrane488.19 164.13
For Application To Horizontal Surfaces, Deduct -49.23
 07 13 53 00-0005 CSF 60 Mil Ethylene Propylene Diene Monomer (EPDM) Membrane562.03 164.13
For Application To Horizontal Surfaces, Deduct -49.23

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

07 13 53 00-0007 CSF 1/32" Butyl Sheet Waterproofing101.49 41.03
For Joint Taping, Add 14.53
For Each Additional Ply, Add 75.16
For Application To Horizontal Surfaces, Deduct -6.17



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 13 53 00-0008 CSF 1/16" Butyl Sheet Waterproofing.....	120.70	41.03
<i>For Joint Taping, Add</i>	15.49	
<i>For Each Additional Ply, Add</i>	88.60	
<i>For Application To Horizontal Surfaces, Deduct</i>	-6.17	
07 13 53 00-0009 Butyl With Nylon (07 13 53)		
07 13 53 00-0010 CSF 1/32" Butyl Elastomeric Waterproofing With Nylon.....	112.47	41.03
<i>For Joint Taping, Add</i>	15.08	
<i>For Each Additional Ply, Add</i>	82.84	
<i>For Application To Horizontal Surfaces, Deduct</i>	-6.17	
07 13 53 00-0011 CSF 1/16" Butyl Elastomeric Waterproofing With Nylon.....	124.82	41.03
<i>For Joint Taping, Add</i>	15.70	
<i>For Each Additional Ply, Add</i>	91.49	
<i>For Application To Horizontal Surfaces, Deduct</i>	-6.17	
07 13 53 00-0012 Neoprene Sheet Waterproofing (07 13 53)		
07 13 53 00-0013 CSF 1/32" Neoprene Sheet Waterproofing.....	175.65	41.03
<i>For Joint Taping, Add</i>	18.24	
<i>For Each Additional Ply, Add</i>	127.07	
<i>For Application To Horizontal Surfaces, Deduct</i>	-6.17	
07 13 53 00-0014 CSF 1/16" Neoprene Sheet Waterproofing.....	257.42	41.03
<i>For Joint Taping, Add</i>	22.33	
<i>For Each Additional Ply, Add</i>	184.31	
<i>For Application To Horizontal Surfaces, Deduct</i>	-6.17	
07 13 53 00-0015 Neoprene With Nylon (07 13 53)		
07 13 53 00-0016 CSF 1/32" Neoprene Elastomeric Waterproofing With Nylon.....	184.18	41.03
<i>For Joint Taping, Add</i>	18.67	
<i>For Each Additional Ply, Add</i>	133.04	
<i>For Application To Horizontal Surfaces, Deduct</i>	-6.17	
07 13 53 00-0017 CSF 1/16" Neoprene Elastomeric Waterproofing With Nylon.....	271.05	41.03
<i>For Joint Taping, Add</i>	23.01	
<i>For Each Additional Ply, Add</i>	193.85	
<i>For Application To Horizontal Surfaces, Deduct</i>	-6.17	
07 13 53 00-0018 Plastic Vapor Barrier (Polyethylene) (07 13 53)		
07 13 53 00-0019 CSF 4 Mil Polyethylene Vapor Barrier.....	41.54	15.49
<i>For Joint Taping, Add</i>	9.96	
<i>For Each Additional Ply, Add</i>	32.51	
<i>For Application To Horizontal Surfaces, Deduct</i>	-5.14	
07 13 53 00-0020 CSF 6 Mil Polyethylene Vapor Barrier.....	42.58	15.49
<i>For Joint Taping, Add</i>	10.02	
<i>For Each Additional Ply, Add</i>	33.24	
<i>For Application To Horizontal Surfaces, Deduct</i>	-5.14	
07 13 53 00-0021 CSF 10 Mil Polyethylene Vapor Barrier.....	69.19	15.49
<i>For Joint Taping, Add</i>	11.35	
<i>For Each Additional Ply, Add</i>	51.86	
<i>For Application To Horizontal Surfaces, Deduct</i>	-5.14	
07 13 53 00-0022 CSF 60 Mil Polyethylene Vapor Barrier With Bentonite.....	104.37	15.49
Note: Includes seam tape, liquid mastic, anchors and termination bar.		
<i>For Each Additional Ply, Add</i>	76.87	
<i>For Application To Horizontal Surfaces, Deduct</i>	-5.72	
07 13 53 00-0023 Plastic Vapor Barrier (PVC) (07 13 53)		
07 13 53 00-0024 CSF 10 Mil Polyvinyl Chloride (PVC) Vapor Barrier.....	48.30	17.15
<i>For Joint Taping, Add</i>	10.30	
<i>For Each Additional Ply, Add</i>	37.24	
<i>For Application To Horizontal Surfaces, Deduct</i>	-5.14	
07 13 53 00-0025 CSF 20 Mil Polyvinyl Chloride (PVC) Vapor Barrier.....	59.79	17.78
<i>For Joint Taping, Add</i>	11.18	
<i>For Each Additional Ply, Add</i>	45.41	
<i>For Application To Horizontal Surfaces, Deduct</i>	-5.34	
07 13 53 00-0026 CSF 30 Mil Polyvinyl Chloride (PVC) Vapor Barrier.....	75.04	18.41
<i>For Joint Taping, Add</i>	12.22	
<i>For Each Additional Ply, Add</i>	56.21	
<i>For Application To Horizontal Surfaces, Deduct</i>	-5.52	
07 13 53 00-0027 Vinyl Plastic Vapor Barrier (07 13 53)		
07 13 53 00-0028 CSF 4 Mil Vinyl Plastic Vapor Barrier With Fiberglass Insulation At Joints (Tu-Tuf #4).....	47.99	15.87

07 14 Fluid-Applied Waterproofing (07 10)

07 14 13 Hot Fluid-Applied Rubberized Asphalt Waterproofing (07 14)

07 14 13 00-0001 Hot Applied Rubberized Asphalt Waterproofing Coating (07 14 13)

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 14 13 00-0002 SF 90 Mil Hot Applied Rubberized Asphalt Waterproofing Coating, Vertical Surface.....	2.46	
Note: Includes primer.		
For Application To Horizontal Surfaces, Deduct	-0.22	
For Reinforcing Fabric, Add	0.56	
07 14 13 00-0003 SF 125 Mil Hot Applied Rubberized Asphalt Waterproofing Coating, Vertical Surface.....	2.90	
Note: Includes primer.		
For Application To Horizontal Surfaces, Deduct	-0.23	
For Reinforcing Fabric, Add	0.56	
07 14 16 Cold Fluid-Applied Waterproofing (07 14)		
07 14 16 00-0001 Fluid Applied Rubber Based Polyurethane (07 14 16)		
07 14 16 00-0002 SF 60 Mil Thick, Applied In 2 Coats, Fluid Applied, Rubber Base, Polyurethane Waterproofing.....	4.13	
For Application To Horizontal Surfaces, Deduct	-0.50	
07 14 16 00-0003 SF 90 Mil Thick, Applied In 2 Coats, Fluid Applied, Rubber Base, Polyurethane Waterproofing.....	4.72	
For Application To Horizontal Surfaces, Deduct	-0.52	
07 14 16 00-0004 SF 120 Mil Thick, Applied In 2 Coats, Fluid Applied, Rubber Base, Polyurethane Waterproofing.....	5.34	
For Application To Horizontal Surfaces, Deduct	-0.55	
07 14 16 00-0005 One Part Solution Of Chlorosulfonated Polyethylene Polymer (07 14 16)		
07 14 16 00-0006 SF 15 Mil Finish Coat, 1 Part Solution, Chlorosulfonated Polyethylene (CSM) Polymer.....	2.81	
07 14 16 00-0007 Copolymer Compound (07 14 16)		
07 14 16 00-0008 SF 32 Mil, Fluid Elastomeric Copolymer Compound For Slabs.....	4.47	
07 14 16 00-0009 Fluid Applied Neoprene (07 14 16)		
07 14 16 00-0010 CSF 1/8" Fiberglass Reinforced, Fluid Applied Neoprene	541.61	
For Application To Horizontal Surfaces, Deduct	-59.79	
07 14 16 00-0011 CSF 50 Mil, 4 Coats, Fluid Applied Neoprene.....	1,050.46	
For Application To Horizontal Surfaces, Deduct	-117.30	
07 14 16 00-0012 CSF 90 Mil, 4 Coats, Fluid Applied Neoprene.....	1,709.35	
For Application To Horizontal Surfaces, Deduct	-175.86	
07 16 Cementitious and Reactive Waterproofing (07 10)		
07 16 13 Polymer Modified Cement Waterproofing (07 16)		
07 16 13 00-0001 SF Polymer Modified Cementitious Waterproofing Assembly, 2 Coats.....	4.87	
Note: As manufactured by Thoro Consumer Products. Includes Thoroseal, Acryl 60, acrylic waterproof coating and white pigmented acrylic copolymer primer.		
07 16 16 Crystalline Waterproofing (07 16)		
07 16 16 00-0001 SF Crystalline Cementitious Waterproofing, 2 Coats (Xypex Concentrate).....	6.21	
07 16 19 Metal Oxide Waterproofing (07 16)		
07 16 19 00-0001 Metallic Oxide Waterproofing (07 16 19)		
Note: Includes one broom applied bond coat and three brush applied waterproof coats. Excludes concrete repairs to subbase and final protective concrete surface coat. See CSI section 03 54 16 00-0001 for self leveling underlayment for concrete floors.		
07 16 19 00-0002 CSF Catalyzed Metallic Waterproofing Treatment, Metal Oxide Waterproofing (Euclid Iron Waterpeller).....	492.60	
For Application To Horizontal Surfaces, Deduct	-61.44	
07 17 Bentonite Waterproofing (07 10)		
07 17 13 Bentonite Panel Waterproofing (07 17)		
07 17 13 00-0001 CSF 3/16" Bentonite Waterproofing Panels.....	467.64	134.71
For Application To Horizontal Surfaces, Deduct	-40.42	
07 17 13 00-0002 CSF 1/4" Bentonite Waterproofing Panels	430.12	142.33
For Application To Horizontal Surfaces, Deduct	-43.75	
07 17 13 00-0003 CSF 5/8" Bentonite Waterproofing Panels	586.17	148.43
For Application To Horizontal Surfaces, Deduct	-44.52	
07 17 13 00-0004 CSF 3/8" Granular Bentonite, Troweled.....	473.26	123.45
For Application To Horizontal Surfaces, Deduct	-37.02	
07 19 Water Repellents (07 10)		
07 19 13 Acrylic Sealer (07 19)		
Note: Per coat.		
07 19 13 00-0001 SF Spray On Concrete, Acrylic Sealer	2.58	
07 19 13 00-0002 SF Spray On Concrete Block/Brick, Acrylic Sealer.....	3.06	
07 19 13 00-0003 SF Spray On Stone, Acrylic Sealer	3.36	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
-------	-----	-----	-------------	------------------------	----------------------

07 19 16 Silane Water Repellents (07 19)

07 19 16 00-0001 Silane Concrete Sealer <small>(07 19 16)</small>					
07 19 16 00-0002	SF		Spray On Concrete, Water Based, Silane Penetrating Water Repellent Sealer (Specchem SpecSilane 40 WB)	0.73	
07 19 16 00-0003	SF		Spray On Concrete Block/Brick, Water Based, Silane Penetrating Water Repellent Sealer (Specchem SpecSilane 40 WB)	1.09	
07 19 16 00-0004 Silane/Siloxane Concrete Sealer <small>(07 19 16)</small>					
07 19 16 00-0005	SF		Spray On Concrete, Solvent Based, Silane/Siloxane Concrete Penetrating Water Repellent Sealer (Anti-Hydro Aridox 40)	1.30	
<i>Note: 40% silane, alcohol based.</i>					
07 19 16 00-0006	SF		Spray On Concrete Block/Brick, Solvent Based, Silane/Siloxane Penetrating Water Repellent Sealer (Anti-Hydro Aridox 40)	1.91	
<i>Note: 40% silane, alcohol based.</i>					
07 19 16 00-0007	SF		Spray On Concrete, Water-Based, Silane/Siloxane Penetrating Water Repellent Sealer (Prosoco Saltguard WB)	0.49	
<i>Note: 200 SF/GAL</i>					
07 19 16 00-0008	SF		Spray On Concrete Block/Masonry, Water-Based, Silane/Siloxane Penetrating Water Repellent Sealer (Prosoco Saltguard WB)	0.73	

07 20 Thermal Protection (07)

07 21 Thermal Insulation (07 20)

07 21 13 Board Insulation (07 21)
Note: Types are stock sizes, mastic applied.

07 21 13 13 Foam Board Insulation (07 21 13)

07 21 13 13-0001 Cold Adhesive Applied Foam Board Insulation <small>(07 21 13 13)</small>					
07 21 13 13-0002 Cold Adhesive Applied, Foam Glass (Cellular Glass), Foam Board Insulation <small>(07 21 13 13-0001)</small>					
07 21 13 13-0003	SF		1" Thick, R3.44, Foam Glass (Cellular Glass), Foam Board Insulation, Cold Adhesive Applied	4.23	0.44
<i>For Horizontal Surface Application, Deduct</i>				-0.07	
<i>For Vapor Barrier, Integral With Insulation, Add</i>				0.05	
07 21 13 13-0004	SF		1-1/2" Thick, R5.16, Foam Glass (Cellular Glass), Foam Board Insulation, Cold Adhesive Applied	5.91	0.44
<i>For Horizontal Surface Application, Deduct</i>				-0.07	
<i>For Vapor Barrier, Integral With Insulation, Add</i>				0.05	
07 21 13 13-0005	SF		2" Thick, R6.88, Foam Glass (Cellular Glass), Foam Board Insulation, Cold Adhesive Applied	7.03	0.45
<i>For Horizontal Surface Application, Deduct</i>				-0.07	
<i>For Vapor Barrier, Integral With Insulation, Add</i>				0.05	
07 21 13 13-0006	SF		2-3/4" Thick, R8.17, Foam Glass (Cellular Glass), Foam Board Insulation, Cold Adhesive Applied	9.28	0.46
<i>For Horizontal Surface Application, Deduct</i>				-0.08	
<i>For Vapor Barrier, Integral With Insulation, Add</i>				0.05	
07 21 13 13-0007 Cold Adhesive Applied, Expanded Polystyrene, Foam Board Insulation <small>(07 21 13 13-0001)</small>					
07 21 13 13-0008	SF		3/8" Thick, R1.44, Molded Expanded Polystyrene, Foam Board Insulation (MEPS), Cold Adhesive Applied	1.87	0.43
<i>For Horizontal Surface Application, Deduct</i>				-0.07	
<i>For Vapor Barrier, Integral With Insulation, Add</i>				0.05	
07 21 13 13-0009	SF		1/2" Thick, R1.93, Molded Expanded Polystyrene, Foam Board Insulation (MEPS), Cold Adhesive Applied	1.95	0.43
<i>For Horizontal Surface Application, Deduct</i>				-0.07	
<i>For Vapor Barrier, Integral With Insulation, Add</i>				0.05	
07 21 13 13-0010	SF		3/4" Thick, R2.89, Molded Expanded Polystyrene, Foam Board Insulation (MEPS), Cold Adhesive Applied	2.22	0.43
<i>For Horizontal Surface Application, Deduct</i>				-0.07	
<i>For Vapor Barrier, Integral With Insulation, Add</i>				0.05	
07 21 13 13-0011	SF		1" Thick, R3.85, Molded Expanded Polystyrene, Foam Board Insulation (MEPS), Cold Adhesive Applied	2.49	0.44
<i>For Horizontal Surface Application, Deduct</i>				-0.07	
<i>For Vapor Barrier, Integral With Insulation, Add</i>				0.05	
07 21 13 13-0012	SF		2" Thick, R7.70, Molded Expanded Polystyrene, Foam Board Insulation (MEPS), Cold Adhesive Applied	3.58	0.45
<i>For Horizontal Surface Application, Deduct</i>				-0.07	
<i>For Vapor Barrier, Integral With Insulation, Add</i>				0.05	
07 21 13 13-0013	SF		3" Thick, R11.55, Molded Expanded Polystyrene, Foam Board Insulation (MEPS), Cold Adhesive Applied	4.67	0.46
<i>For Horizontal Surface Application, Deduct</i>				-0.08	
<i>For Vapor Barrier, Integral With Insulation, Add</i>				0.05	
07 21 13 13-0014	SF		4" Thick, R15.40, Molded Expanded Polystyrene, Foam Board Insulation (MEPS), Cold Adhesive Applied	5.76	0.47
<i>For Horizontal Surface Application, Deduct</i>				-0.08	
<i>For Vapor Barrier, Integral With Insulation, Add</i>				0.05	
07 21 13 13-0015	SF		5" Thick, R19.25, Molded Expanded Polystyrene, Foam Board Insulation (MEPS), Cold Adhesive Applied	6.85	0.48
<i>For Horizontal Surface Application, Deduct</i>				-0.08	
<i>For Vapor Barrier, Integral With Insulation, Add</i>				0.05	
07 21 13 13-0016	SF		6" Thick, R23.1, Molded Expanded Polystyrene, Foam Board Insulation (MEPS), Cold Adhesive Applied	7.95	0.49
<i>For Horizontal Surface Application, Deduct</i>				-0.08	
<i>For Vapor Barrier, Integral With Insulation, Add</i>				0.05	

07 21 13 13-0017 Cold Adhesive Applied, Extruded Polystyrene, Foam Board Insulation (07 21 13 13-0001)
Note: 15 PSI compressive strength.

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 21 13 13-0018 SF 3/8" Thick, R1.9, Extruded Polystyrene, Foam Board Insulation, Cold Adhesive Applied.....	2.14	0.43
For Horizontal Surface Application, Deduct	-0.07	
For Vapor Barrier, Integral With Insulation, Add	0.05	
For 25 PSI Compressive Strength, Add	0.23	
For 40 PSI Compressive Strength, Add	0.54	
For 60 PSI Compressive Strength, Add	0.86	
For 115 PSI Compressive Strength, Add	3.72	
07 21 13 13-0019 SF 1/2" Thick, R2.5, Extruded Polystyrene, Foam Board Insulation, Cold Adhesive Applied.....	2.51	0.43
For Horizontal Surface Application, Deduct	-0.07	
For Vapor Barrier, Integral With Insulation, Add	0.05	
For 25 PSI Compressive Strength, Add	0.29	
For 40 PSI Compressive Strength, Add	0.68	
For 60 PSI Compressive Strength, Add	1.07	
For 115 PSI Compressive Strength, Add	4.67	
07 21 13 13-0020 SF 3/4" Thick, R3.7, Extruded Polystyrene, Foam Board Insulation, Cold Adhesive Applied.....	2.81	0.43
For Horizontal Surface Application, Deduct	-0.07	
For Vapor Barrier, Integral With Insulation, Add	0.05	
For 25 PSI Compressive Strength, Add	0.33	
For 40 PSI Compressive Strength, Add	0.79	
For 60 PSI Compressive Strength, Add	1.25	
For 115 PSI Compressive Strength, Add	5.44	
07 21 13 13-0021 SF 1" Thick, R5.0, Extruded Polystyrene, Foam Board Insulation, Cold Adhesive Applied.....	2.89	0.44
For Horizontal Surface Application, Deduct	-0.07	
For Vapor Barrier, Integral With Insulation, Add	0.05	
For 25 PSI Compressive Strength, Add	0.35	
For 40 PSI Compressive Strength, Add	0.82	
For 60 PSI Compressive Strength, Add	1.29	
For 115 PSI Compressive Strength, Add	5.62	
07 21 13 13-0022 SF 2" Thick, R10.0, Extruded Polystyrene, Foam Board Insulation, Cold Adhesive Applied.....	4.36	0.45
For Horizontal Surface Application, Deduct	-0.07	
For Vapor Barrier, Integral With Insulation, Add	0.05	
For 25 PSI Compressive Strength, Add	0.58	
For 40 PSI Compressive Strength, Add	1.38	
For 60 PSI Compressive Strength, Add	2.14	
For 115 PSI Compressive Strength, Add	9.38	
07 21 13 13-0023 SF 3" Thick, R15.0, Extruded Polystyrene, Foam Board Insulation, Cold Adhesive Applied.....	5.85	0.46
For Horizontal Surface Application, Deduct	-0.08	
For Vapor Barrier, Integral With Insulation, Add	0.05	
For 25 PSI Compressive Strength, Add	0.81	
For 40 PSI Compressive Strength, Add	1.93	
For 60 PSI Compressive Strength, Add	2.99	
For 115 PSI Compressive Strength, Add	13.16	
07 21 13 13-0024 SF 4" Thick, R20.0, Extruded Polystyrene, Foam Board Insulation, Cold Adhesive Applied.....	6.61	0.47
For Horizontal Surface Application, Deduct	-0.08	
For Vapor Barrier, Integral With Insulation, Add	0.05	
For 25 PSI Compressive Strength, Add	0.93	
For 40 PSI Compressive Strength, Add	2.22	
For 60 PSI Compressive Strength, Add	3.42	
For 115 PSI Compressive Strength, Add	15.06	
07 21 13 13-0025 Mechanically Fastened Foam Board Insulation <small>(07 21 13 13)</small>		
Note: Mechanically fastened to wood or steel.		
07 21 13 13-0026 Mechanically Fastened, Foam Glass (Cellular Glass), Foam Board Insulation <small>(07 21 13 13-0025)</small>		
Note: Mechanically fastened to wood or steel.		
07 21 13 13-0027 SF 1" Thick, R3.44, Foam Glass (Cellular Glass), Foam Board Insulation, Mechanically Fastened	4.17	0.44
For Horizontal Surface Application, Deduct	-0.09	
For Vapor Barrier, Integral With Insulation, Add	0.05	
For Mechanically Fastened To Concrete, Add	1.57	
For Mechanically Fastened To Gypsum, Add	2.07	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.72	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.13	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.56	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.09	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.20	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.84	
07 21 13 13-0028 SF 1-1/2" Thick, R5.16, Foam Glass (Cellular Glass), Foam Board Insulation, Mechanically Fastened	5.95	0.44
For Horizontal Surface Application, Deduct	-0.09	
For Vapor Barrier, Integral With Insulation, Add	0.05	
For Mechanically Fastened To Concrete, Add	1.62	
For Mechanically Fastened To Gypsum, Add	2.01	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.90	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.20	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.56	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.34	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.26	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.84	



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

07

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 21 13 13-0029 SF 2" Thick, R6.88, Foam Glass (Cellular Glass), Foam Board Insulation, Mechanically Fastened.....	7.09	0.45
For Horizontal Surface Application, Deduct	-0.09	
For Vapor Barrier, Integral With Insulation, Add	0.05	
For Mechanically Fastened To Concrete, Add	1.62	
For Mechanically Fastened To Gypsum, Add	2.01	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.90	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.20	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.59	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.34	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.26	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.88	
07 21 13 13-0030 SF 2-3/4" Thick, R8.17, Foam Glass (Cellular Glass), Foam Board Insulation, Mechanically Fastened.....	9.43	0.46
For Horizontal Surface Application, Deduct	-0.09	
For Vapor Barrier, Integral With Insulation, Add	0.05	
For Mechanically Fastened To Concrete, Add	1.67	
For Mechanically Fastened To Gypsum, Add	2.10	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	1.02	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.34	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.76	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.53	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.50	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	4.14	
07 21 13 13-0031 Mechanically Fastened, Expanded Polystyrene, Foam Board Insulation (07 21 13 13-0025)		
07 21 13 13-0032 SF 3/8" Thick, R1.44, Molded Expanded Polystyrene, Foam Board Insulation (MEPS).....	1.81	0.43
For Horizontal Surface Application, Deduct	-0.09	
For Vapor Barrier, Integral With Insulation, Add	0.05	
For Mechanically Fastened To Concrete, Add	1.57	
For Mechanically Fastened To Gypsum, Add	2.07	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.72	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.13	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.56	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.09	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.20	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.84	
07 21 13 13-0033 SF 1/2" Thick, R1.93, Molded Expanded Polystyrene, Foam Board Insulation (MEPS).....	1.89	0.43
For Horizontal Surface Application, Deduct	-0.09	
For Vapor Barrier, Integral With Insulation, Add	0.05	
For Mechanically Fastened To Concrete, Add	1.57	
For Mechanically Fastened To Gypsum, Add	2.07	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.72	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.13	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.56	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.09	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.20	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.84	
07 21 13 13-0034 SF 3/4" Thick, R2.89, Molded Expanded Polystyrene, Foam Board Insulation (MEPS).....	2.16	0.43
For Horizontal Surface Application, Deduct	-0.09	
For Vapor Barrier, Integral With Insulation, Add	0.05	
For Mechanically Fastened To Concrete, Add	1.57	
For Mechanically Fastened To Gypsum, Add	2.07	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.72	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.13	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.56	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.09	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.20	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.84	
07 21 13 13-0035 SF 1" Thick, R3.85, Molded Expanded Polystyrene, Foam Board Insulation (MEPS).....	2.43	0.44
For Horizontal Surface Application, Deduct	-0.09	
For Vapor Barrier, Integral With Insulation, Add	0.05	
For Mechanically Fastened To Concrete, Add	1.57	
For Mechanically Fastened To Gypsum, Add	2.07	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.72	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.13	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.56	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.09	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.20	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.84	
07 21 13 13-0036 SF 2" Thick, R7.70, Molded Expanded Polystyrene, Foam Board Insulation (MEPS).....	3.63	0.45
For Horizontal Surface Application, Deduct	-0.09	
For Vapor Barrier, Integral With Insulation, Add	0.05	
For Mechanically Fastened To Concrete, Add	1.62	
For Mechanically Fastened To Gypsum, Add	2.01	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.90	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.20	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.59	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.34	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.26	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.88	

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

MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
07 21 13 13-0037	SF 3" Thick, R11.55, Molded Expanded Polystyrene, Foam Board Insulation (MEPS).....	4.82	0.46
	<i>For Horizontal Surface Application, Deduct</i>	-0.09	
	<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
	<i>For Mechanically Fastened To Concrete, Add</i>	1.67	
	<i>For Mechanically Fastened To Gypsum, Add</i>	2.10	
	<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.02	
	<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.34	
	<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.76	
	<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.53	
	<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.50	
	<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	4.14	
07 21 13 13-0038	SF 4" Thick, R15.40, Molded Expanded Polystyrene, Foam Board Insulation (MEPS).....	6.05	0.47
	<i>For Horizontal Surface Application, Deduct</i>	-0.09	
	<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
	<i>For Mechanically Fastened To Concrete, Add</i>	1.71	
	<i>For Mechanically Fastened To Gypsum, Add</i>	2.09	
	<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.21	
	<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.53	
	<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.91	
	<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.81	
	<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.80	
	<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	4.37	
07 21 13 13-0039	SF 5" Thick, R19.25, Molded Expanded Polystyrene, Foam Board Insulation (MEPS).....	7.34	0.48
	<i>For Horizontal Surface Application, Deduct</i>	-0.10	
	<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
	<i>For Mechanically Fastened To Concrete, Add</i>	1.76	
	<i>For Mechanically Fastened To Gypsum, Add</i>	2.44	
	<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.43	
	<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.76	
	<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	3.07	
	<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	7.96	
	<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	4.15	
	<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	4.60	
07 21 13 13-0040	SF 6" Thick, R23.1, Molded Expanded Polystyrene, Foam Board Insulation (MEPS).....	8.71	0.49
	<i>For Horizontal Surface Application, Deduct</i>	-0.10	
	<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
	<i>For Mechanically Fastened To Concrete, Add</i>	1.81	
	<i>For Mechanically Fastened To Gypsum, Add</i>	2.03	
	<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.76	
	<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	3.10	
	<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	3.32	
	<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	2.63	
	<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	4.64	
	<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	4.97	
07 21 13 13-0041	Mechanically Fastened, Extruded Polystyrene, Foam Board Insulation <small>(07 21 13 13-0025)</small>		
	Note: 15 PSI compressive strength. Mechanically fastened to wood or steel.		
07 21 13 13-0042	SF 3/8" Thick, R1.9, Extruded Polystyrene, Foam Board Insulation, Mechanically Fastened.....	2.08	0.43
	<i>For Horizontal Surface Application, Deduct</i>	-0.09	
	<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
	<i>For 25 PSI Compressive Strength, Add</i>	0.20	
	<i>For 40 PSI Compressive Strength, Add</i>	0.46	
	<i>For 60 PSI Compressive Strength, Add</i>	0.75	
	<i>For 115 PSI Compressive Strength, Add</i>	3.22	
	<i>For Mechanically Fastened To Concrete, Add</i>	1.57	
	<i>For Mechanically Fastened To Gypsum, Add</i>	2.07	
	<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.72	
	<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.13	
	<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.56	
	<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.09	
	<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.20	
	<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.84	
07 21 13 13-0043	SF 1/2" Thick, R2.5, Extruded Polystyrene, Foam Board Insulation, Mechanically Fastened.....	2.45	0.43
	<i>For Horizontal Surface Application, Deduct</i>	-0.09	
	<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
	<i>For 25 PSI Compressive Strength, Add</i>	0.25	
	<i>For 40 PSI Compressive Strength, Add</i>	0.60	
	<i>For 60 PSI Compressive Strength, Add</i>	0.97	
	<i>For 115 PSI Compressive Strength, Add</i>	4.17	
	<i>For Mechanically Fastened To Concrete, Add</i>	1.57	
	<i>For Mechanically Fastened To Gypsum, Add</i>	2.07	
	<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.72	
	<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.13	
	<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.56	
	<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.09	
	<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.20	
	<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.84	



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

07

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 21 13 13-0044 SF 3/4" Thick, R3.7, Extruded Polystyrene, Foam Board Insulation, Mechanically Fastened.....	2.75	0.43
<i>For Horizontal Surface Application, Deduct</i>	-0.09	
<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
<i>For 25 PSI Compressive Strength, Add</i>	0.30	
<i>For 40 PSI Compressive Strength, Add</i>	0.72	
<i>For 60 PSI Compressive Strength, Add</i>	1.14	
<i>For 115 PSI Compressive Strength, Add</i>	4.94	
<i>For Mechanically Fastened To Concrete, Add</i>	1.57	
<i>For Mechanically Fastened To Gypsum, Add</i>	2.07	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.72	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.13	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.56	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.09	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.20	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.84	
07 21 13 13-0045 SF 1" Thick, R5.0, Extruded Polystyrene, Foam Board Insulation, Mechanically Fastened.....	2.83	0.44
<i>For Horizontal Surface Application, Deduct</i>	-0.09	
<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
<i>For 25 PSI Compressive Strength, Add</i>	0.31	
<i>For 40 PSI Compressive Strength, Add</i>	0.74	
<i>For 60 PSI Compressive Strength, Add</i>	1.18	
<i>For 115 PSI Compressive Strength, Add</i>	5.12	
<i>For Mechanically Fastened To Concrete, Add</i>	1.57	
<i>For Mechanically Fastened To Gypsum, Add</i>	2.07	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.72	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.13	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.56	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.09	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.20	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.84	
07 21 13 13-0046 SF 2" Thick, R10.0, Extruded Polystyrene, Foam Board Insulation, Mechanically Fastened.....	4.42	0.45
<i>For Horizontal Surface Application, Deduct</i>	-0.09	
<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
<i>For 25 PSI Compressive Strength, Add</i>	0.56	
<i>For 40 PSI Compressive Strength, Add</i>	1.33	
<i>For 60 PSI Compressive Strength, Add</i>	2.08	
<i>For 115 PSI Compressive Strength, Add</i>	9.11	
<i>For Mechanically Fastened To Concrete, Add</i>	1.62	
<i>For Mechanically Fastened To Gypsum, Add</i>	2.01	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.90	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.20	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.59	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.34	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.26	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.88	
07 21 13 13-0047 SF 3" Thick, R15.0, Extruded Polystyrene, Foam Board Insulation, Mechanically Fastened.....	6.00	0.46
<i>For Horizontal Surface Application, Deduct</i>	-0.09	
<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
<i>For 25 PSI Compressive Strength, Add</i>	0.81	
<i>For 40 PSI Compressive Strength, Add</i>	1.93	
<i>For 60 PSI Compressive Strength, Add</i>	2.99	
<i>For 115 PSI Compressive Strength, Add</i>	13.12	
<i>For Mechanically Fastened To Concrete, Add</i>	1.67	
<i>For Mechanically Fastened To Gypsum, Add</i>	2.10	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.02	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.34	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.76	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.53	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.50	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	4.14	
07 21 13 13-0048 SF 4" Thick, R20.0, Extruded Polystyrene, Foam Board Insulation, Mechanically Fastened.....	6.90	0.47
<i>For Horizontal Surface Application, Deduct</i>	-0.09	
<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
<i>For 25 PSI Compressive Strength, Add</i>	0.95	
<i>For 40 PSI Compressive Strength, Add</i>	2.26	
<i>For 60 PSI Compressive Strength, Add</i>	3.50	
<i>For 115 PSI Compressive Strength, Add</i>	15.41	
<i>For Mechanically Fastened To Concrete, Add</i>	1.71	
<i>For Mechanically Fastened To Gypsum, Add</i>	2.09	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.21	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.53	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.91	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.81	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.80	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	4.37	
07 21 13 16 Fibrous Board Insulation (07 21 13)		
07 21 13 16-0001 Cold Adhesive Applied Fibrous Board Insulation (07 21 13 16)		
07 21 13 16-0002 Cold Adhesive Applied, Wood Fiber (Cellulosic-Fiber), Fibrous Board Insulation (07 21 13 16-0001)		
07 21 13 16-0003 SF 1" Thick, R2.6, Wood Fiber (Cellulosic-Fiber), Fibrous Board Insulation, Cold Adhesive Applied.....	2.71	0.55
<i>For Horizontal Surface Application, Deduct</i>	-0.09	
<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
<i>For Factory Painted On One Surface Add</i>	0.17	

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

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 21 13 16-0004	SF	2" Thick, R5.2, Wood Fiber (Cellulosic-Fiber), Fibrous Board Insulation, Cold Adhesive Applied	3.99	0.65
		<i>For Horizontal Surface Application, Deduct</i>	-0.11	
		<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
		<i>For Factory Painted On One Surface Add</i>	0.17	
07 21 13 16-0005	SF	3" Thick, R7.8, Wood Fiber (Cellulosic-Fiber), Fibrous Board Insulation, Cold Adhesive Applied	5.27	0.76
		<i>For Horizontal Surface Application, Deduct</i>	-0.13	
		<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
		<i>For Factory Painted On One Surface Add</i>	0.17	
07 21 13 16-0006		Cold Adhesive Applied, Fiberglass, Fibrous Board Insulation (07 21 13 16-0001)		
07 21 13 16-0007	SF	1" Thick, R4.2, Fiberglass, Fibrous Board Insulation, Cold Adhesive Applied	4.87	0.44
		<i>For Horizontal Surface Application, Deduct</i>	-0.07	
		<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
		<i>For Factory Painted On One Surface Add</i>	0.17	
07 21 13 16-0008	SF	1-1/2" Thick, R6.0, Fiberglass, Fibrous Board Insulation, Cold Adhesive Applied	5.69	0.44
		<i>For Horizontal Surface Application, Deduct</i>	-0.07	
		<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
		<i>For Factory Painted On One Surface Add</i>	0.17	
07 21 13 16-0009	SF	2" Thick, R8.0, Fiberglass, Fibrous Board Insulation, Cold Adhesive Applied	7.03	0.45
		<i>For Horizontal Surface Application, Deduct</i>	-0.08	
		<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
		<i>For Factory Painted On One Surface Add</i>	0.17	
07 21 13 16-0010	SF	2-1/2" Thick, R10.0, Fiberglass, Fibrous Board Insulation, Cold Adhesive Applied	8.11	0.45
		<i>For Horizontal Surface Application, Deduct</i>	-0.08	
		<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
		<i>For Factory Painted On One Surface Add</i>	0.17	
07 21 13 16-0011	SF	3" Thick, R12.4, Fiberglass, Fibrous Board Insulation, Cold Adhesive Applied	9.18	0.46
		<i>For Horizontal Surface Application, Deduct</i>	-0.08	
		<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
		<i>For Factory Painted On One Surface Add</i>	0.17	
07 21 13 16-0012		Mechanically Fastened Fibrous Board Insulation (07 21 13 16)		
		Note: Mechanically fastened to wood or steel.		
07 21 13 16-0013		Mechanically Fastened, Wood Fiber (Cellulosic-Fiber), Fibrous Board Insulation (07 21 13 16-0012)		
		Note: Mechanically fastened to wood or steel.		
07 21 13 16-0014	SF	1" Thick, R2.6, Wood Fiber (Cellulosic-Fiber), Fibrous Board Insulation, Mechanically Fastened	2.51	0.55
		<i>For Horizontal Surface Application, Deduct</i>	-0.09	
		<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
		<i>For Factory Painted On One Surface Add</i>	0.17	
		<i>For Mechanically Fastened To Concrete, Add</i>	1.57	
		<i>For Mechanically Fastened To Gypsum, Add</i>	2.07	
		<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.72	
		<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.13	
		<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.56	
		<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.09	
		<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.20	
		<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.84	
07 21 13 16-0015	SF	2" Thick, R5.2, Wood Fiber (Cellulosic-Fiber), Fibrous Board Insulation, Mechanically Fastened	3.88	0.65
		<i>For Horizontal Surface Application, Deduct</i>	-0.11	
		<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
		<i>For Factory Painted On One Surface Add</i>	0.17	
		<i>For Mechanically Fastened To Concrete, Add</i>	1.62	
		<i>For Mechanically Fastened To Gypsum, Add</i>	2.01	
		<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.90	
		<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.20	
		<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.59	
		<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.34	
		<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.26	
		<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.88	
07 21 13 16-0016	SF	3" Thick, R7.8, Wood Fiber (Cellulosic-Fiber), Fibrous Board Insulation, Mechanically Fastened	5.24	0.76
		<i>For Horizontal Surface Application, Deduct</i>	-0.13	
		<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
		<i>For Factory Painted On One Surface Add</i>	0.17	
		<i>For Mechanically Fastened To Concrete, Add</i>	1.67	
		<i>For Mechanically Fastened To Gypsum, Add</i>	2.10	
		<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.02	
		<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.34	
		<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.76	
		<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.53	
		<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.50	
		<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	4.14	
07 21 13 16-0017		Mechanically Fastened, Fiberglass, Fibrous Board Insulation (07 21 13 16-0012)		
		Note: Mechanically fastened to wood or steel.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 21 13 16-0018 SF 1" Thick, R4.2, Fiberglass, Fibrous Board Insulation, Mechanically Fastened.....	4.81	0.44
<i>For Horizontal Surface Application, Deduct</i>	-0.09	
<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
<i>For Factory Painted On One Surface Add</i>	0.17	
<i>For Mechanically Fastened To Concrete, Add</i>	1.57	
<i>For Mechanically Fastened To Gypsum, Add</i>	2.07	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.72	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.13	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.56	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.09	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.20	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.84	
07 21 13 16-0019 SF 1-1/2" Thick, R6.0, Fiberglass, Fibrous Board Insulation, Mechanically Fastened	5.73	0.44
<i>For Horizontal Surface Application, Deduct</i>	-0.09	
<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
<i>For Factory Painted On One Surface Add</i>	0.17	
<i>For Mechanically Fastened To Concrete, Add</i>	1.62	
<i>For Mechanically Fastened To Gypsum, Add</i>	2.01	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.90	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.20	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.56	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.34	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.26	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.84	
07 21 13 16-0020 SF 2" Thick, R8.0, Fiberglass, Fibrous Board Insulation, Mechanically Fastened.....	7.08	0.45
<i>For Horizontal Surface Application, Deduct</i>	-0.09	
<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
<i>For Factory Painted On One Surface Add</i>	0.17	
<i>For Mechanically Fastened To Concrete, Add</i>	1.62	
<i>For Mechanically Fastened To Gypsum, Add</i>	2.01	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.90	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.20	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.59	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.34	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.26	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.88	
07 21 13 16-0021 SF 2-1/2" Thick, R10.0, Fiberglass, Fibrous Board Insulation, Mechanically Fastened	8.26	0.45
<i>For Horizontal Surface Application, Deduct</i>	-0.09	
<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
<i>For Factory Painted On One Surface Add</i>	0.17	
<i>For Mechanically Fastened To Concrete, Add</i>	1.67	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.02	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.34	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.53	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.50	
<i>For Mechanically Fastened To Gypsum, Add</i>	2.04	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.71	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	4.06	
07 21 13 16-0022 SF 3" Thick, R12.4, Fiberglass, Fibrous Board Insulation, Mechanically Fastened.....	9.33	0.46
<i>For Horizontal Surface Application, Deduct</i>	-0.09	
<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
<i>For Factory Painted On One Surface Add</i>	0.17	
<i>For Mechanically Fastened To Concrete, Add</i>	1.67	
<i>For Mechanically Fastened To Gypsum, Add</i>	2.10	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.02	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.34	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.76	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.53	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.50	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	4.14	
07 21 13 19 Mineral Board Insulation (07 21 13)		
07 21 13 19-0001 Cold Adhesive Applied Mineral Board Insulation (07 21 13 19)		
07 21 13 19-0002 Cold Adhesive Applied, High-Density Fiberboard, Mineral Board Insulation (07 21 13 19-0001)		
07 21 13 19-0003 SF 1/2" Thick, R1.3, High-Density Fiberboard, Mineral Board Insulation, Cold Adhesive Applied	2.05	0.49
<i>For Horizontal Surface Application, Deduct</i>	-0.08	
<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
<i>For Factory Painted On One Surface Add</i>	0.17	
07 21 13 19-0004 SF 25/32" Thick, R1.9, High-Density Fiberboard, Mineral Board Insulation, Cold Adhesive Applied	2.44	0.52
<i>For Horizontal Surface Application, Deduct</i>	-0.09	
<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
<i>For Factory Painted On One Surface Add</i>	0.17	
07 21 13 19-0005 SF 1" Thick, R2.5, High-Density Fiberboard, Mineral Board Insulation, Cold Adhesive Applied	2.84	0.55
<i>For Horizontal Surface Application, Deduct</i>	-0.09	
<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
<i>For Factory Painted On One Surface Add</i>	0.17	
07 21 13 19-0006 SF 1-1/2" Thick, R3.8, High-Density Fiberboard, Mineral Board Insulation, Cold Adhesive Applied	3.55	0.60
<i>For Horizontal Surface Application, Deduct</i>	-0.10	
<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
<i>For Factory Painted On One Surface Add</i>	0.17	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 21 13 19-0007 SF 2" Thick, R5.0, High-Density Fiberboard, Mineral Board Insulation, Cold Adhesive Applied	4.25	0.65
For Horizontal Surface Application, Deduct	-0.11	
For Vapor Barrier, Integral With Insulation, Add	0.05	
For Factory Painted On One Surface Add	0.17	
07 21 13 19-0008 SF 3" Thick, R7.5, High-Density Fiberboard, Mineral Board Insulation, Cold Adhesive Applied	5.66	0.76
For Horizontal Surface Application, Deduct	-0.13	
For Vapor Barrier, Integral With Insulation, Add	0.05	
For Factory Painted On One Surface Add	0.17	
07 21 13 19-0009 Mechanically Fastened Mineral Board Insulation (07 21 13 19)		
Note: Mechanically fastened to wood or steel.		
07 21 13 19-0010 Mechanically Fastened, High-Density Fiberboard, Mineral Board Insulation		
(07 21 13 19-0009)		
Note: Mechanically fastened to wood or steel.		
07 21 13 19-0011 SF 1/2" Thick, R1.3, High-Density Fiberboard, Mineral Board Insulation, Mechanically Fastened	1.85	0.49
For Horizontal Surface Application, Deduct	-0.08	
For Vapor Barrier, Integral With Insulation, Add	0.05	
For Factory Painted On One Surface Add	0.17	
For Mechanically Fastened To Concrete, Add	1.57	
For Mechanically Fastened To Gypsum, Add	2.07	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.72	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.13	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.56	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.09	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.20	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.84	
07 21 13 19-0012 SF 25/32" Thick, R1.9, High-Density Fiberboard, Mineral Board Insulation, Mechanically Fastened	2.24	0.52
For Horizontal Surface Application, Deduct	-0.09	
For Vapor Barrier, Integral With Insulation, Add	0.05	
For Factory Painted On One Surface Add	0.17	
For Mechanically Fastened To Concrete, Add	1.57	
For Mechanically Fastened To Gypsum, Add	2.07	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.72	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.13	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.56	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.09	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.20	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.84	
07 21 13 19-0013 SF 1" Thick, R2.5, High-Density Fiberboard, Mineral Board Insulation, Mechanically Fastened	2.64	0.55
For Horizontal Surface Application, Deduct	-0.09	
For Vapor Barrier, Integral With Insulation, Add	0.05	
For Factory Painted On One Surface Add	0.17	
For Mechanically Fastened To Concrete, Add	1.57	
For Mechanically Fastened To Gypsum, Add	2.07	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.72	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.13	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.56	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.09	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.20	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.84	
07 21 13 19-0014 SF 1-1/2" Thick, R3.8, High-Density Fiberboard, Mineral Board Insulation, Mechanically Fastened	3.44	0.60
For Horizontal Surface Application, Deduct	-0.10	
For Vapor Barrier, Integral With Insulation, Add	0.05	
For Factory Painted On One Surface Add	0.17	
For Mechanically Fastened To Concrete, Add	1.62	
For Mechanically Fastened To Gypsum, Add	2.01	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.90	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.20	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.56	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.34	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.26	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.84	
07 21 13 19-0015 SF 2" Thick, R5.0, High-Density Fiberboard, Mineral Board Insulation, Mechanically Fastened	4.14	0.65
For Horizontal Surface Application, Deduct	-0.11	
For Vapor Barrier, Integral With Insulation, Add	0.05	
For Factory Painted On One Surface Add	0.17	
For Mechanically Fastened To Concrete, Add	1.62	
For Mechanically Fastened To Gypsum, Add	2.01	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.90	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.20	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.59	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.34	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.26	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.88	
07 21 13 19-0016 SF 3" Thick, R7.5, High-Density Fiberboard, Mineral Board Insulation, Mechanically Fastened	5.64	0.76
For Horizontal Surface Application, Deduct	-0.13	
For Vapor Barrier, Integral With Insulation, Add	0.05	
For Factory Painted On One Surface Add	0.17	
For Mechanically Fastened To Concrete, Add	1.67	
For Mechanically Fastened To Gypsum, Add	2.10	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	1.02	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.34	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.76	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.53	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.50	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	4.14	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
------------------------------	---------------------------	-------------------------

07 21 16

Blanket Insulation (07 21)

Note: All insulation rolls or batts applied to wood or steel studs or between rafters or between metal building "skin" and framing.

07 21 16 00-0001 Fiberglass Flexible Insulation (07 21 16)			
Note: Rolls or batts.			
07 21 16 00-0002 Kraft Faced, Fiberglass Flexible Insulation (07 21 16 00-0001)			
07 21 16 00-0003	SF 3-1/2" Thick, Kraft Faced, R-11 Fiberglass Flexible Insulation <i>For >1,600, Deduct</i>	1.65 -0.16	0.58
07 21 16 00-0004	SF 3-1/2" Thick, Kraft Faced, R-13 Fiberglass Flexible Insulation <i>For >1,600, Deduct</i>	1.76 -0.18	0.58
07 21 16 00-0005	SF 3-1/2" Thick, Kraft Faced, R-15 Fiberglass Flexible Insulation <i>For >1,600, Deduct</i>	1.79 -0.19	0.58
07 21 16 00-0006	SF 5-1/2" Thick, Kraft Faced, R-21 Fiberglass Flexible Insulation <i>For >1,600, Deduct</i>	2.28 -0.28	0.58
07 21 16 00-0007	SF 6-1/4" Thick, Kraft Faced, R-19 Fiberglass Flexible Insulation <i>For >1,600, Deduct</i>	2.01 -0.22	0.58
07 21 16 00-0008	SF 9-1/2" Thick, Kraft Faced, R-30 Fiberglass Flexible Insulation <i>For >1,600, Deduct</i>	2.69 -0.33	0.72
07 21 16 00-0009	SF 12" Thick, Kraft Faced, R-38 Fiberglass Flexible Insulation..... <i>For >1,600, Deduct</i>	3.07 -0.37	0.72
07 21 16 00-0010 Unfaced, Fiberglass Flexible Insulation (07 21 16 00-0001)			
07 21 16 00-0011	SF 3-1/2" Thick, Unfaced, R-11 Fiberglass Flexible Insulation..... <i>For >1,600, Deduct</i>	1.59 -0.15	0.58
07 21 16 00-0012	SF 3-1/2" Thick, Unfaced, R-13 Fiberglass Flexible Insulation..... <i>For >1,600, Deduct</i>	1.70 -0.17	0.58
07 21 16 00-0013	SF 3-1/2" Thick, Unfaced, R-15 Fiberglass Flexible Insulation..... <i>For >1,600, Deduct</i>	2.15 -0.26	0.58
07 21 16 00-0014	SF 5-1/2" Thick, Unfaced, R-21 Fiberglass Flexible Insulation..... <i>For >1,600, Deduct</i>	2.21 -0.27	0.58
07 21 16 00-0015	SF 6-1/4" Thick, Unfaced, R-19 Fiberglass Flexible Insulation..... <i>For >1,600, Deduct</i>	1.96 -0.21	0.58
07 21 16 00-0016	SF 9-1/2" Thick, Unfaced, R-30 Fiberglass Flexible Insulation..... <i>For >1,600, Deduct</i>	2.56 -0.30	0.72
07 21 16 00-0017	SF 12" Thick, Unfaced, R-38 Fiberglass Flexible Insulation..... <i>For >1,600, Deduct</i>	2.98 -0.35	0.72
07 21 16 00-0018 Foil Faced, Fiberglass Flexible Insulation (07 21 16 00-0001)			
07 21 16 00-0019	SF 3-1/2" Thick, Foil Faced, R-11 Fiberglass Flexible Insulation <i>For >1,600, Deduct</i>	1.84 -0.20	0.58
07 21 16 00-0020	SF 3-1/2" Thick, Foil Faced, R-13 Fiberglass Flexible Insulation <i>For >1,600, Deduct</i>	2.01 -0.23	0.58
07 21 16 00-0021	SF 6-1/4" Thick, Foil Faced, R-19 Fiberglass Flexible Insulation <i>For >1,600, Deduct</i>	2.25 -0.26	0.58
07 21 16 00-0022	SF 10-1/4" Thick, Foil Faced, R-38 Fiberglass Flexible Insulation <i>For >1,600, Deduct</i>	3.13 -0.39	0.72
07 21 16 00-0023	SF 12" Thick, Foil Faced, R-38 Fiberglass Flexible Insulation <i>For >1,600, Deduct</i>	3.39 -0.43	0.72
07 21 16 00-0024 Poly-Encapsulated, Fiberglass Flexible Insulation (07 21 16 00-0001)			
07 21 16 00-0025	SF 3-1/2" Thick, Poly-Encapsulated, R-11 Fiberglass Flexible Insulation <i>For >1,600, Deduct</i>	1.69 -0.17	0.58
07 21 16 00-0026	SF 3-1/2" Thick, Poly-Encapsulated, R-13 Fiberglass Flexible Insulation <i>For >1,600, Deduct</i>	1.79 -0.19	0.58
07 21 16 00-0027	SF 5-1/2" Thick, Poly-Encapsulated, R-21 Fiberglass Flexible Insulation <i>For >1,600, Deduct</i>	2.35 -0.29	0.58
07 21 16 00-0028	SF 6-1/2" Thick, Poly-Encapsulated, R-19 Fiberglass Flexible Insulation <i>For >1,600, Deduct</i>	2.03 -0.22	0.58
07 21 16 00-0029	SF 8-1/4" Thick, Poly-Encapsulated, R-25 Fiberglass Flexible Insulation <i>For >1,600, Deduct</i>	2.61 -0.32	0.72
07 21 16 00-0030	SF 10-1/4" Thick, Poly-Encapsulated, R-30 Fiberglass Flexible Insulation <i>For >1,600, Deduct</i>	2.98 -0.35	0.72
07 21 16 00-0031 Mineral Wool Flexible Insulation (07 21 16)			
07 21 16 00-0032 Kraft Faced, Mineral Wool Flexible Insulation (07 21 16 00-0031)			
07 21 16 00-0033	SF 3-1/2" Kraft Faced, R-11 Mineral Wool Flexible Insulation..... <i>For >1,600, Deduct</i>	1.81 -0.19	0.58
07 21 16 00-0034	SF 6-1/4" Kraft Faced, R-19 Mineral Wool Flexible Insulation..... <i>For >1,600, Deduct</i>	2.33 -0.28	0.58
07 21 16 00-0035	SF 9-1/2" Kraft Faced, R-30 Mineral Wool Flexible Insulation..... <i>For >1,600, Deduct</i>	3.46 -0.48	0.58
07 21 16 00-0036	SF 12" Kraft Faced, R-38 Mineral Wool Flexible Insulation..... <i>For >1,600, Deduct</i>	4.11 -0.58	0.58

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 21 16 00-0037			Unfaced, Mineral Wool Flexible Insulation (07 21 16 00-0031)		
07 21 16 00-0038	SF		3-1/2" Unfaced, R-11 Mineral Wool Flexible Insulation.....	1.71	0.58
			<i>For >1,600, Deduct</i>	-0.17	
07 21 16 00-0039	SF		6-1/4" Unfaced, R-19 Mineral Wool Flexible Insulation.....	2.16	0.58
			<i>For >1,600, Deduct</i>	-0.25	
07 21 16 00-0040	SF		9-1/2" Unfaced, R-30 Mineral Wool Flexible Insulation.....	3.16	0.58
			<i>For >1,600, Deduct</i>	-0.42	
07 21 16 00-0041	SF		12" Unfaced, R-38 Mineral Wool Flexible Insulation.....	3.74	0.58
			<i>For >1,600, Deduct</i>	-0.50	
07 21 16 00-0042			Natural Cotton Insulation (07 21 16)		
07 21 16 00-0043			UltraTouch™ Natural Cotton Insulation (07 21 16 00-0042)		
			Note: 85% recycled denim cotton.		
07 21 16 00-0044	SF		3-1/2", R-13 UltraTouch™ Natural Cotton Insulation.....	2.34	0.58
			<i>For >1,600, Deduct</i>	-0.30	
07 21 16 00-0045	SF		5-1/2", R-19 UltraTouch™ Natural Cotton Insulation.....	2.59	0.58
			<i>For >1,600, Deduct</i>	-0.34	
07 21 16 00-0046	SF		5-1/2", R-21 UltraTouch™ Natural Cotton Insulation.....	2.85	0.58
			<i>For >1,600, Deduct</i>	-0.39	
07 21 16 00-0047	SF		8", R-30 UltraTouch™ Natural Cotton Insulation.....	3.73	0.58
			<i>For >1,600, Deduct</i>	-0.55	
07 21 19			Foamed-In-Place Insulation (07 21)		
07 21 19 00-0001			Polyurethane Foam Insulation, Sprayed On (07 21 19)		
07 21 19 00-0002	EA		Foamed-In-Place, Spray Polyurethane Insulation Minimum Charge.....	1,481.28	
			Note: For projects where the total foamed-in-place insulation charge is less than the minimum charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
07 21 19 00-0003	SF		1" Thick, R3.8, 0.5 PCF, Open Cell, Spray Polyurethane Foam Insulation.....	1.52	
			<i>For Up To 250 SF, Add</i>	0.57	
			<i>For >250 To 500 SF, Add</i>	0.29	
			<i>For >500 To 1,000 SF, Add</i>	0.12	
			<i>For >5,000 To 10,000 SF, Deduct</i>	-0.18	
			<i>For >10,000 SF, Deduct</i>	-0.45	
07 21 19 00-0004	SF		1-1/2" Thick, R5.7, 0.5 PCF, Open Cell, Spray Polyurethane Foam Insulation.....	2.06	
			<i>For Up To 250 SF, Add</i>	0.75	
			<i>For >250 To 500 SF, Add</i>	0.38	
			<i>For >500 To 1,000 SF, Add</i>	0.16	
			<i>For >5,000 To 10,000 SF, Deduct</i>	-0.24	
			<i>For >10,000 SF, Deduct</i>	-0.59	
07 21 19 00-0005	SF		2" Thick, R7.6, 0.5 PCF, Open Cell, Spray Polyurethane Foam Insulation.....	2.59	
			<i>For Up To 250 SF, Add</i>	0.93	
			<i>For >250 To 500 SF, Add</i>	0.46	
			<i>For >500 To 1,000 SF, Add</i>	0.20	
			<i>For >5,000 To 10,000 SF, Deduct</i>	-0.30	
			<i>For >10,000 SF, Deduct</i>	-0.73	
07 21 19 00-0006	SF		2-1/2" Thick, R9.5, 0.5 PCF, Open Cell, Spray Polyurethane Foam Insulation.....	3.13	
			<i>For Up To 250 SF, Add</i>	1.10	
			<i>For >250 To 500 SF, Add</i>	0.55	
			<i>For >500 To 1,000 SF, Add</i>	0.24	
			<i>For >5,000 To 10,000 SF, Deduct</i>	-0.35	
			<i>For >10,000 SF, Deduct</i>	-0.87	
07 21 19 00-0007	SF		3" Thick, R11.4, 0.5 PCF, Open Cell, Spray Polyurethane Foam Insulation.....	3.65	
			<i>For Up To 250 SF, Add</i>	1.27	
			<i>For >250 To 500 SF, Add</i>	0.64	
			<i>For >500 To 1,000 SF, Add</i>	0.27	
			<i>For >5,000 To 10,000 SF, Deduct</i>	-0.41	
			<i>For >10,000 SF, Deduct</i>	-1.00	
07 21 19 00-0008	SF		3-1/2" Thick, R13.3, 0.5 PCF, Open Cell, Spray Polyurethane Foam Insulation.....	4.19	
			<i>For Up To 250 SF, Add</i>	1.45	
			<i>For >250 To 500 SF, Add</i>	0.73	
			<i>For >500 To 1,000 SF, Add</i>	0.31	
			<i>For >5,000 To 10,000 SF, Deduct</i>	-0.47	
			<i>For >10,000 SF, Deduct</i>	-1.14	
07 21 19 00-0009	SF		4" Thick, R15.2, 0.5 PCF, Open Cell, Spray Polyurethane Foam Insulation.....	4.72	
			<i>For Up To 250 SF, Add</i>	1.62	
			<i>For >250 To 500 SF, Add</i>	0.81	
			<i>For >500 To 1,000 SF, Add</i>	0.35	
			<i>For >5,000 To 10,000 SF, Deduct</i>	-0.52	
			<i>For >10,000 SF, Deduct</i>	-1.27	
07 21 19 00-0010	SF		4-1/2" Thick, R17.1, 0.5 PCF, Open Cell, Spray Polyurethane Foam Insulation.....	5.26	
			<i>For Up To 250 SF, Add</i>	1.80	
			<i>For >250 To 500 SF, Add</i>	0.90	
			<i>For >500 To 1,000 SF, Add</i>	0.39	
			<i>For >5,000 To 10,000 SF, Deduct</i>	-0.58	
			<i>For >10,000 SF, Deduct</i>	-1.41	
07 21 19 00-0011	SF		5" Thick, R19.0, 0.5 PCF, Open Cell, Spray Polyurethane Foam Insulation.....	5.79	
			<i>For Up To 250 SF, Add</i>	1.97	
			<i>For >250 To 500 SF, Add</i>	0.99	
			<i>For >500 To 1,000 SF, Add</i>	0.43	
			<i>For >5,000 To 10,000 SF, Deduct</i>	-0.64	
			<i>For >10,000 SF, Deduct</i>	-1.55	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 21 19 00-0012 SF 5-1/2" Thick, R20.9, 0.5 PCF, Open Cell, Spray Polyurethane Foam Insulation	6.33	
For Up To 250 SF, Add	2.15	
For >250 To 500 SF, Add	1.08	
For >500 To 1,000 SF, Add	0.46	
For >5,000 To 10,000 SF, Deduct	-0.70	
For >10,000 SF, Deduct	-1.69	
07 21 19 00-0013 SF 6" Thick, R22.8, 0.5 PCF, Open Cell, Spray Polyurethane Foam Insulation.....	6.86	
For Up To 250 SF, Add	2.32	
For >250 To 500 SF, Add	1.16	
For >500 To 1,000 SF, Add	0.50	
For >5,000 To 10,000 SF, Deduct	-0.75	
For >10,000 SF, Deduct	-1.82	
07 21 19 00-0014 SF 1" Thick, R6.5, 2.0 PCF, Closed Cell, Spray Polyurethane Foam Insulation	2.93	
For Up To 250 SF, Add	1.10	
For >250 To 500 SF, Add	0.55	
For >500 To 1,000 SF, Add	0.23	
For >5,000 To 10,000 SF, Deduct	-0.35	
For >10,000 SF, Deduct	-0.86	
07 21 19 00-0015 SF 1-1/2" Thick, R9.75, 2.0 PCF, Closed Cell, Spray Polyurethane Foam Insulation	3.88	
For Up To 250 SF, Add	1.39	
For >250 To 500 SF, Add	0.69	
For >500 To 1,000 SF, Add	0.30	
For >5,000 To 10,000 SF, Deduct	-0.44	
For >10,000 SF, Deduct	-1.09	
07 21 19 00-0016 SF 2" Thick, R13.0, 2.0 PCF, Closed Cell, Spray Polyurethane Foam Insulation	4.72	
For Up To 250 SF, Add	1.62	
For >250 To 500 SF, Add	0.81	
For >500 To 1,000 SF, Add	0.35	
For >5,000 To 10,000 SF, Deduct	-0.52	
For >10,000 SF, Deduct	-1.27	
07 21 19 00-0017 SF 2-1/2" Thick, R16.25, 2.0 PCF, Closed Cell, Spray Polyurethane Foam Insulation	5.68	
For Up To 250 SF, Add	1.92	
For >250 To 500 SF, Add	0.96	
For >500 To 1,000 SF, Add	0.41	
For >5,000 To 10,000 SF, Deduct	-0.62	
For >10,000 SF, Deduct	-1.50	
07 21 19 00-0018 SF 3" Thick, R19.5, 2.0 PCF, Closed Cell, Spray Polyurethane Foam Insulation	6.51	
For Up To 250 SF, Add	2.15	
For >250 To 500 SF, Add	1.07	
For >500 To 1,000 SF, Add	0.47	
For >5,000 To 10,000 SF, Deduct	-0.70	
For >10,000 SF, Deduct	-1.68	
07 21 19 00-0019 SF 3-1/2" Thick, R22.75, 2.0 PCF, Closed Cell, Spray Polyurethane Foam Insulation	7.48	
For Up To 250 SF, Add	2.45	
For >250 To 500 SF, Add	1.22	
For >500 To 1,000 SF, Add	0.53	
For >5,000 To 10,000 SF, Deduct	-0.80	
For >10,000 SF, Deduct	-1.91	
07 21 19 00-0020 SF 4" Thick, R26.0, 2.0 PCF, Closed Cell, Spray Polyurethane Foam Insulation	8.32	
For Up To 250 SF, Add	2.68	
For >250 To 500 SF, Add	1.34	
For >500 To 1,000 SF, Add	0.59	
For >5,000 To 10,000 SF, Deduct	-0.88	
For >10,000 SF, Deduct	-2.10	
07 21 19 00-0021 SF 4-1/2" Thick, R29.25, 2.0 PCF, Closed Cell, Spray Polyurethane Foam Insulation	9.28	
For Up To 250 SF, Add	2.98	
For >250 To 500 SF, Add	1.49	
For >500 To 1,000 SF, Add	0.65	
For >5,000 To 10,000 SF, Deduct	-0.98	
For >10,000 SF, Deduct	-2.33	
07 21 19 00-0022 SF 5" Thick, R32.5, 2.0 PCF, Closed Cell, Spray Polyurethane Foam Insulation	10.11	
For Up To 250 SF, Add	3.21	
For >250 To 500 SF, Add	1.61	
For >500 To 1,000 SF, Add	0.70	
For >5,000 To 10,000 SF, Deduct	-1.06	
For >10,000 SF, Deduct	-2.51	
07 21 19 00-0023 SF 5-1/2" Thick, R35.75, 2.0 PCF, Closed Cell, Spray Polyurethane Foam Insulation	11.07	
For Up To 250 SF, Add	3.50	
For >250 To 500 SF, Add	1.75	
For >500 To 1,000 SF, Add	0.77	
For >5,000 To 10,000 SF, Deduct	-1.15	
For >10,000 SF, Deduct	-2.74	
07 21 19 00-0024 SF 6" Thick, R39.0, 2.0 PCF, Closed Cell, Spray Polyurethane Foam Insulation	11.90	
For Up To 250 SF, Add	3.74	
For >250 To 500 SF, Add	1.87	
For >500 To 1,000 SF, Add	0.82	
For >5,000 To 10,000 SF, Deduct	-1.23	
For >10,000 SF, Deduct	-2.92	
07 21 19 00-0025 Expanding Foam Insulation To Fill Hollow Metal Door Frames (07 21 19)		
07 21 19 00-0026 LF Expanding Foam Insulation To Fill 4-3/4" Deep Hollow Metal Door Frame	5.29	
07 21 19 00-0027 LF Expanding Foam Insulation To Fill 5-3/4" Deep Hollow Metal Door Frame	6.60	
07 21 19 00-0028 LF Expanding Foam Insulation To Fill 6-3/4" Deep Hollow Metal Door Frame	7.93	
07 21 19 00-0029 LF Expanding Foam Insulation To Fill 8-3/4" Through 8-3/4" Deep Hollow Metal Door Frame	9.30	
07 21 19 00-0030 LF Expanding Foam Insulation To Fill 8-7/8" Through 13" Deep Hollow Metal Door Frame.....	10.75	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 21 19 00-0031 Expanding Foam Insulation To Fill Window Frames (07 21 19)		
07 21 19 00-0032 LF Expanding Foam Insulation To Fill Window Frame.....	5.19	
07 21 23 Loose-Fill Insulation (07 21)		
07 21 23 00-0001 Poured Type, Loose Fill Insulation (07 21 23)		
07 21 23 00-0002 CF R-4/Inch, Poured Type, Fiberglass Loose Fill Insulation.....	8.30	3.35
07 21 23 00-0003 CF R-3.8/Inch, Poured Type, Cellulose Loose Fill Insulation.....	8.32	3.35
07 21 23 00-0004 Concrete Block Wall Cavity Insulation (07 21 23)		
07 21 23 00-0005 CF R-2.7, Vermiculite Or Perlite, Concrete Block Wall Cavity Insulation.....	10.63	3.35
07 21 23 00-0006 CF R-4, Polystyrene Foam, Concrete Block Wall Cavity Insulation.....	10.55	3.35
07 21 26 Blown Insulation (07 21)		
07 21 26 00-0001 Fiberglass Blown-In Insulation (07 21 26)		
07 21 26 00-0002 Attic, Fiberglass Blown-In Insulation (07 21 26 00-0001)		
07 21 26 00-0003 SF 4-1/2" Thick, R-11 Attic, Fiberglass Blown In Insulation.....	1.65	1.38
07 21 26 00-0004 SF 5-1/4" Thick, R-13 Attic, Fiberglass Blown In Insulation.....	1.84	1.52
07 21 26 00-0005 SF 6-1/2" Thick, R-17 Attic, Fiberglass Blown In Insulation.....	2.04	1.66
07 21 26 00-0006 SF 7-1/2" Thick, R-19 Attic, Fiberglass Blown In Insulation.....	2.26	1.79
07 21 26 00-0007 SF 8-1/2" Thick, R-22 Attic, Fiberglass Blown In Insulation.....	2.41	1.87
07 21 26 00-0008 SF 10-1/4" Thick, R-26 Attic, Fiberglass Blown In Insulation.....	2.58	1.93
07 21 26 00-0009 SF 11-1/2" Thick, R-30 Attic, Fiberglass Blown In Insulation.....	2.76	2.00
07 21 26 00-0010 SF 12-1/2" Thick, R-32 Attic, Fiberglass Blown In Insulation.....	2.89	2.07
07 21 26 00-0011 SF 13-1/2" Thick, R-35 Attic, Fiberglass Blown In Insulation.....	3.10	2.21
07 21 26 00-0012 SF 14-1/2" Thick, R-38 Attic, Fiberglass Blown In Insulation.....	3.26	2.28
07 21 26 00-0013 SF 16-1/2" Thick, R-44 Attic, Fiberglass Blown In Insulation.....	3.49	2.35
07 21 26 00-0014 SF 18-1/2" Thick, R-49 Attic, Fiberglass Blown In Insulation.....	3.77	2.48
07 21 26 00-0015 SF 21-3/4" Thick, R-60 Attic, Fiberglass Blown In Insulation.....	4.35	2.76
07 21 26 00-0016 New Wall, Fiberglass Blown-In Insulation (07 21 26 00-0001)		
07 21 26 00-0017 SF 3-1/2" Thick, R-15 New Wall, Fiberglass Blown In Insulation	2.31	1.38
07 21 26 00-0018 SF 5-1/2" Thick, R-23 New Wall, Fiberglass Blown In Insulation	3.05	1.66
07 21 26 00-0019 SF 7-1/4" Thick, R-31 New Wall, Fiberglass Blown In Insulation	3.58	1.79
07 21 26 00-0020 SF 9-1/4" Thick, R-39 New Wall, Fiberglass Blown In Insulation	4.22	1.93
07 21 26 00-0021 Existing Wall, Fiberglass Blown-In Insulation (07 21 26 00-0001)		
Note: Includes drilling. Excludes patching.		
07 21 26 00-0022 SF 3-1/2" Thick, R-15 Existing Wall, Fiberglass Blown In Insulation	2.21	1.38
07 21 26 00-0023 SF 5-1/2" Thick, R-23 Existing Wall, Fiberglass Blown In Insulation	2.95	1.66
07 21 26 00-0024 SF 7-1/4" Thick, R-31 Existing Wall, Fiberglass Blown In Insulation	3.48	1.79
07 21 26 00-0025 SF 9-1/4" Thick, R-39 Existing Wall, Fiberglass Blown In Insulation	4.12	1.93
07 21 26 00-0026 Cellulose Blown-In Insulation (07 21 26)		
07 21 26 00-0027 Attic, Cellulose Blown-In Insulation (07 21 26 00-0026)		
07 21 26 00-0028 SF 3-3/4" Thick, R-13 Attic, Cellulose Blown In Insulation	1.63	1.38
07 21 26 00-0029 SF 5-1/2" Thick, R-19 Attic, Cellulose Blown In Insulation	1.91	1.52
07 21 26 00-0030 SF 6-1/4" Thick, R-22 Attic, Cellulose Blown In Insulation	2.12	1.66
07 21 26 00-0031 SF 7-3/4" Thick, R-28 Attic, Cellulose Blown In Insulation	2.40	1.79
07 21 26 00-0032 SF 8-1/2" Thick, R-30 Attic, Cellulose Blown In Insulation	2.44	1.79
07 21 26 00-0033 SF 10-3/4" Thick, R-38 Attic, Cellulose Blown In Insulation	2.77	1.93
07 21 26 00-0034 SF 11-1/4" Thick, R-40 Attic, Cellulose Blown In Insulation	2.83	1.93
07 21 26 00-0035 SF 12-1/2" Thick, R-45 Attic, Cellulose Blown In Insulation	3.08	2.07
07 21 26 00-0036 SF 13-3/4" Thick, R-50 Attic, Cellulose Blown In Insulation	3.22	2.07
07 21 26 00-0037 SF 15-1/2" Thick, R-55 Attic, Cellulose Blown In Insulation	3.47	2.21
07 21 26 00-0038 SF 16-1/2" Thick, R-60 Attic, Cellulose Blown In Insulation	3.61	2.21
07 21 26 00-0039 New Wall, Cellulose Blown-In Insulation (07 21 26 00-0026)		
07 21 26 00-0040 SF 3-1/2" Thick, R-13 New Wall, Cellulose Blown In Insulation	2.02	1.38
07 21 26 00-0041 SF 5-1/2" Thick, R-20 New Wall, Cellulose Blown In Insulation	2.61	1.66
07 21 26 00-0042 SF 7-1/4" Thick, R-27 New Wall, Cellulose Blown In Insulation	2.99	1.79
07 21 26 00-0043 SF 9-1/4" Thick, R-34 New Wall, Cellulose Blown In Insulation	3.46	1.93
07 21 26 00-0044 Existing Wall, Cellulose Blown-In Insulation (07 21 26 00-0026)		
Note: Includes drilling. Excludes patching.		
07 21 26 00-0045 SF 3-1/2" Thick, R-13 Existing Wall, Cellulose Blown In Insulation	1.92	1.38
07 21 26 00-0046 SF 5-1/2" Thick, R-20 Existing Wall, Cellulose Blown In Insulation	2.51	1.66
07 21 26 00-0047 SF 7-1/4" Thick, R-27 Existing Wall, Cellulose Blown In Insulation	2.89	1.79



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

07

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 21 26 00-0048 SF 9-1/4" Thick, R-34 Existing Wall, Cellulose Blown In Insulation.....	3.36	1.93
07 21 29 Sprayed Insulation (07 21)		
07 21 29 00-0001 Fiber Sprayed On Insulation (07 21 29)		
Note: Per each 1" of thickness.		
07 21 29 00-0002 SF 1" Thick, R2.7, Spray-on Perlite Insulation	2.37	0.71
07 21 29 00-0003 SF 1" Thick, R3.7, Spray-on Fibrous/Cementitious Insulation.....	1.74	0.71
07 21 29 00-0004 Cellulose Sprayed On Insulation (07 21 29)		
07 21 29 00-0005 SF 1" Thick, Spray-on Cellulose Insulation	3.33	0.71
07 21 53 Reflective Insulation (07 21)		
07 21 53 00-0001 Reflective Barrier Insulation (Foil - Single Bubble - Foil) (07 21 53)		
07 21 53 00-0002 SF 3/16" Nominal Thickness, Reflective Barrier Insulation, With Single Bubble Air Space	1.31	
07 22 Roof and Deck Insulation (07 20)		
07 22 16 Roof Board Insulation (07 22)		
Note: Use these items for specified related installations with systems per CSI section 07 50 00. Items are for single layer of panels attached per FM I-90 requirements. Types are stock sizes set in cold applied adhesive. Apply modifiers for specified alternate attachment.		
07 22 16 00-0001 Rigid Board Roofing Insulation (07 22 16)		
Note: Use these items for specified related installations with systems per CSI section 07 50 00. Items are for single layer of panels attached per FM I-90 requirements. See CSI section 07 22 16 00-0466 for demolition of insulation board.		
07 22 16 00-0002 Cold Adhesive Applied Rigid Board Roofing Insulation (07 22 16 00-0001)		
07 22 16 00-0003 Cold Adhesive Applied, High-Density Fiberboard, Roof Board Insulation (07 22 16 00-0002)		
07 22 16 00-0004 SF 1/2" Thick, R1.3, High-Density Fiberboard, Roof Board Insulation, Cold Adhesive Applied	2.49	
07 22 16 00-0005 SF 25/32" Thick, R1.9, High-Density Fiberboard, Roof Board Insulation, Cold Adhesive Applied	2.92	
07 22 16 00-0006 SF 1" Thick, R2.5, High-Density Fiberboard, Roof Board Insulation, Cold Adhesive Applied	3.33	
07 22 16 00-0007 SF 1-1/2" Thick, R3.8, High-Density Fiberboard, Roof Board Insulation, Cold Adhesive Applied	4.09	
07 22 16 00-0008 SF 2" Thick, R5, High-Density Fiberboard, Roof Board Insulation, Cold Adhesive Applied	4.84	
07 22 16 00-0009 Cold Adhesive Applied, Wood Fiber (Cellulosic-Fiber), Roof Board Insulation (07 22 16 00-0002)		
07 22 16 00-0010 SF 1/2" Thick, R1.3, Wood Fiber (Cellulosic-Fiber), Roof Board Insulation, Cold Adhesive Applied.....	2.71	
07 22 16 00-0011 SF 1" Thick, R2.6, Wood Fiber (Cellulosic-Fiber), Roof Board Insulation, Cold Adhesive Applied.....	3.20	
07 22 16 00-0012 Cold Adhesive Applied, Perlite, Roof Board Insulation (07 22 16 00-0002)		
07 22 16 00-0013 SF 1/2" Thick, R1.32, Perlite, Roof Board Insulation, Cold Adhesive Applied.....	2.43	
07 22 16 00-0014 SF 1/2" Thick, R1.32, Perlite, Roof Board Insulation, Cold Adhesive Applied.....	2.43	
07 22 16 00-0015 SF 3/4" Thick, R2.08, Perlite, Roof Board Insulation, Cold Adhesive Applied.....	2.68	
07 22 16 00-0016 SF 1" Thick, R2.78, Perlite, Roof Board Insulation, Cold Adhesive Applied.....	2.98	
07 22 16 00-0017 SF 1-1/2" Thick, R4.17, Perlite, Roof Board Insulation, Cold Adhesive Applied.....	3.72	
07 22 16 00-0018 SF 2" Thick, R5.56, Perlite, Roof Board Insulation, Cold Adhesive Applied.....	4.18	
07 22 16 00-0019 Cold Adhesive Applied, Basalt Mineral Wool, Roof Board Insulation (07 22 16 00-0002)		
07 22 16 00-0020 SF 1" Thick, R3.5, Basalt Mineral Wool, Roof Board Insulation, Cold Adhesive Applied	3.38	
07 22 16 00-0021 SF 2" Thick, R7.4, Basalt Mineral Wool, Roof Board Insulation, Cold Adhesive Applied	4.55	
07 22 16 00-0022 SF 3" Thick, R11.1, Basalt Mineral Wool, Roof Board Insulation, Cold Adhesive Applied	5.93	
07 22 16 00-0023 Cold Adhesive Applied, Foam Glass (Cellular Glass), Roof Board Insulation (07 22 16 00-0002)		
07 22 16 00-0024 SF 1-1/2" Thick, R5.16, Foam Glass (Cellular Glass), Roof Board Insulation, Cold Adhesive Applied	6.31	
07 22 16 00-0025 SF 2" Thick, R6.88, Foam Glass (Cellular Glass), Roof Board Insulation, Cold Adhesive Applied	7.44	
07 22 16 00-0026 SF 2-3/4" Thick, R8.17, Foam Glass (Cellular Glass), Roof Board Insulation, Cold Adhesive Applied	9.70	
07 22 16 00-0027 SF 3-1/2" Thick, R12.04, Foam Glass (Cellular Glass), Roof Board Insulation, Cold Adhesive Applied.....	12.58	
07 22 16 00-0028 Cold Adhesive Applied, Molded Expanded Polystyrene, Roof Board Insulation (07 22 16 00-0002)		
07 22 16 00-0029 SF 3/8" Thick, R1.44, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Cold Adhesive Applied	2.36	
For Loose-Laid, Deduct	-1.30	
07 22 16 00-0030 SF 1/2" Thick, R1.93, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Cold Adhesive Applied	2.44	
For Loose-Laid, Deduct	-1.30	
07 22 16 00-0031 SF 3/4" Thick, R2.89, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Cold Adhesive Applied	2.71	
For Loose-Laid, Deduct	-1.30	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 22 16 00-0032 SF 1" Thick, R3.85, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Cold Adhesive Applied	2.98	
<i>For Loose-Laid, Deduct</i>	-1.30	
07 22 16 00-0033 SF 2" Thick, R7.70, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Cold Adhesive Applied	4.09	
<i>For Loose-Laid, Deduct</i>	-1.32	
07 22 16 00-0034 SF 3" Thick, R11.55, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Cold Adhesive Applied	5.19	
<i>For Loose-Laid, Deduct</i>	-1.33	
07 22 16 00-0035 SF 4" Thick, R15.40, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Cold Adhesive Applied	6.29	
<i>For Loose-Laid, Deduct</i>	-1.35	
07 22 16 00-0036 SF 5" Thick, R19.25, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Cold Adhesive Applied	7.39	
<i>For Loose-Laid, Deduct</i>	-1.36	
07 22 16 00-0037 SF 6" Thick, R23.1, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Cold Adhesive Applied	8.50	
<i>For Loose-Laid, Deduct</i>	-1.38	
07 22 16 00-0038 Cold Adhesive Applied, Extruded Polystyrene, Roof Board Insulation (07 22 16 00-0002)		
Note: 15 PSI compressive strength.		
07 22 16 00-0039 SF 3/4" Thick, R3.7, Extruded Polystyrene, Roof Board Insulation, Cold Adhesive Applied	3.20	
<i>For Loose-Laid, Deduct</i>	-1.25	
<i>For 25 PSI Compressive Strength, Add</i>	0.33	
<i>For 40 PSI Compressive Strength, Add</i>	0.79	
<i>For 60 PSI Compressive Strength, Add</i>	1.27	
<i>For 115 PSI Compressive Strength, Add</i>	5.48	
07 22 16 00-0040 SF 1" Thick, R5.0, Extruded Polystyrene, Roof Board Insulation, Cold Adhesive Applied	3.28	
<i>For Loose-Laid, Deduct</i>	-1.25	
<i>For 25 PSI Compressive Strength, Add</i>	0.35	
<i>For 40 PSI Compressive Strength, Add</i>	0.82	
<i>For 60 PSI Compressive Strength, Add</i>	1.31	
<i>For 115 PSI Compressive Strength, Add</i>	5.66	
07 22 16 00-0041 SF 1-1/2" Thick, R7.5, Extruded Polystyrene, Roof Board Insulation, Cold Adhesive Applied	4.15	
<i>For Loose-Laid, Deduct</i>	-1.25	
<i>For 25 PSI Compressive Strength, Add</i>	0.48	
<i>For 40 PSI Compressive Strength, Add</i>	1.15	
<i>For 60 PSI Compressive Strength, Add</i>	1.81	
<i>For 100 PSI Compressive Strength, Add</i>	2.33	
<i>For 115 PSI Compressive Strength, Add</i>	7.90	
07 22 16 00-0042 SF 2" Thick, R10.0, Extruded Polystyrene, Roof Board Insulation, Cold Adhesive Applied	4.77	
<i>For Loose-Laid, Deduct</i>	-1.27	
<i>For 25 PSI Compressive Strength, Add</i>	0.58	
<i>For 40 PSI Compressive Strength, Add</i>	1.38	
<i>For 60 PSI Compressive Strength, Add</i>	2.16	
<i>For 115 PSI Compressive Strength, Add</i>	9.42	
07 22 16 00-0043 SF 2-1/2" Thick, R12.5, Extruded Polystyrene, Roof Board Insulation, Cold Adhesive Applied	5.73	
<i>For Loose-Laid, Deduct</i>	-1.27	
<i>For 25 PSI Compressive Strength, Add</i>	0.73	
<i>For 40 PSI Compressive Strength, Add</i>	1.74	
<i>For 60 PSI Compressive Strength, Add</i>	2.71	
<i>For 100 PSI Compressive Strength, Add</i>	3.49	
<i>For 115 PSI Compressive Strength, Add</i>	11.89	
07 22 16 00-0044 SF 3" Thick, R15.0, Extruded Polystyrene, Roof Board Insulation, Cold Adhesive Applied	6.27	
<i>For Loose-Laid, Deduct</i>	-1.28	
<i>For 25 PSI Compressive Strength, Add</i>	0.81	
<i>For 40 PSI Compressive Strength, Add</i>	1.93	
<i>For 60 PSI Compressive Strength, Add</i>	3.01	
<i>For 115 PSI Compressive Strength, Add</i>	13.20	
07 22 16 00-0045 SF 4" Thick, R20.0, Extruded Polystyrene, Roof Board Insulation, Cold Adhesive Applied	7.04	
<i>For Loose-Laid, Deduct</i>	-1.30	
<i>For 25 PSI Compressive Strength, Add</i>	0.93	
<i>For 40 PSI Compressive Strength, Add</i>	2.22	
<i>For 60 PSI Compressive Strength, Add</i>	3.44	
<i>For 115 PSI Compressive Strength, Add</i>	15.10	
07 22 16 00-0046 Cold Adhesive Applied, Polyisocyanurate Board Roofing Insulation (07 22 16 00-0002)		
07 22 16 00-0047 SF 3/4" Thick, R4.3, Polyisocyanurate, Roof Board Insulation, Cold Adhesive Applied	2.86	
<i>For Loose-Laid, Deduct</i>	-1.25	
<i>For Foil Facer, Add</i>	0.36	
<i>For 25 PSI Compressive Strength, Add</i>	0.18	
07 22 16 00-0048 SF 1" Thick, R5.7, Polyisocyanurate, Roof Board Insulation, Cold Adhesive Applied	2.98	
<i>For Loose-Laid, Deduct</i>	-1.25	
<i>For Foil Facer, Add</i>	0.36	
<i>For 25 PSI Compressive Strength, Add</i>	0.19	
07 22 16 00-0049 SF 1-1/2" Thick, R8.6, Polyisocyanurate, Roof Board Insulation, Cold Adhesive Applied	3.15	
<i>For Loose-Laid, Deduct</i>	-1.26	
<i>For Foil Facer, Add</i>	0.36	
<i>For 25 PSI Compressive Strength, Add</i>	0.20	
07 22 16 00-0050 SF 2" Thick, R11.4, Polyisocyanurate, Roof Board Insulation, Cold Adhesive Applied	3.60	
<i>For Loose-Laid, Deduct</i>	-1.27	
<i>For Foil Facer, Add</i>	0.36	
<i>For 25 PSI Compressive Strength, Add</i>	0.25	
07 22 16 00-0051 SF 2-1/2" Thick, R14.4, Polyisocyanurate, Roof Board Insulation, Cold Adhesive Applied	4.05	
<i>For Loose-Laid, Deduct</i>	-1.27	
<i>For Foil Facer, Add</i>	0.36	
<i>For 25 PSI Compressive Strength, Add</i>	0.29	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 22 16 00-0052 SF 3" Thick, R17.4, Polyisocyanurate, Roof Board Insulation, Cold Adhesive Applied	4.51	
<i>For Loose-Laid, Deduct</i>	-1.28	
<i>For Foil Facer, Add</i>	0.36	
<i>For 25 PSI Compressive Strength, Add</i>	0.33	
07 22 16 00-0053 SF 3-1/2" Thick, R20.5, Polyisocyanurate, Roof Board Insulation, Cold Adhesive Applied	5.00	
<i>For Loose-Laid, Deduct</i>	-1.29	
<i>For Foil Facer, Add</i>	0.36	
<i>For 25 PSI Compressive Strength, Add</i>	0.38	
07 22 16 00-0054 SF 4" Thick, R23.6, Polyisocyanurate, Roof Board Insulation, Cold Adhesive Applied	5.45	
<i>For Loose-Laid, Deduct</i>	-1.30	
<i>For Foil Facer, Add</i>	0.36	
<i>For 25 PSI Compressive Strength, Add</i>	0.42	
07 22 16 00-0055 Cold Adhesive Applied, High-Density Polyisocyanurate Cover Board And Roofing Insulation (07 22 16 00-0002)		
07 22 16 00-0056 SF 1/2" Thick, R2.5, High-Density Polyisocyanurate Cover Board And Roofing Insulation, Cold Adhesive Applied	3.24	
07 22 16 00-0057 Cold Adhesive Applied, Gypsum-Fiber, Roof Board Insulation (USG Securock) (07 22 16 00-0002)		
07 22 16 00-0058 SF 1/4" Thick, R0.2, Gypsum-Fiber, Roof Board Insulation (USG Securock Gypsum), Cold Adhesive Applied	3.07	
07 22 16 00-0059 SF 3/8" Thick, R0.3, Gypsum-Fiber, Roof Board Insulation (USG Securock Gypsum), Cold Adhesive Applied	3.26	
07 22 16 00-0060 SF 1/2" Thick, R0.5, Gypsum-Fiber, Roof Board Insulation (USG Securock Gypsum), Cold Adhesive Applied	3.38	
07 22 16 00-0061 SF 5/8" Thick, R0.6, Gypsum-Fiber, Roof Board Insulation (USG Securock Gypsum), Cold Adhesive Applied	3.45	
07 22 16 00-0062 Cold Adhesive Applied, Glass-Mat, Roof Board Insulation (USG Securock) (07 22 16 00-0002)		
07 22 16 00-0063 SF 1/4" Thick, R0.36, Glass-Mat, Roof Board Insulation (USG Securock Glass-Mat), Cold Adhesive Applied	3.01	
07 22 16 00-0064 SF 1/2" Thick, R0.53, Glass-Mat, Roof Board Insulation (USG Securock Glass-Mat), Cold Adhesive Applied	3.29	
07 22 16 00-0065 SF 5/8" Thick, R0.54, Glass-Mat, Roof Board Insulation (USG Securock Glass-Mat), Cold Adhesive Applied	3.35	
07 22 16 00-0066 Cold Adhesive Applied, Polyisocyanurate And Oriented Strand Board, Nailbase Roof Board Insulation (07 22 16 00-0002)		
<i>Note: Includes a polyisocyanurate foam core bonded to a 7/16" oriented strand board (OSB) facer.</i>		
07 22 16 00-0067 SF 1.5" Thick, R6.2, Polyisocyanurate And Oriented Strand Board, Nailbase Roof Board Insulation, Cold Adhesive Applied	5.22	
07 22 16 00-0068 SF 2" Thick, R9.1, Polyisocyanurate And Oriented Strand Board, Nailbase Roof Board Insulation, Cold Adhesive Applied	5.48	
07 22 16 00-0069 SF 2.5" Thick, R12.0, Polyisocyanurate And Oriented Strand Board, Nailbase Roof Board Insulation, Cold Adhesive Applied	5.84	
07 22 16 00-0070 SF 3" Thick, R15.0, Polyisocyanurate And Oriented Strand Board, Nailbase Roof Board Insulation, Cold Adhesive Applied	6.07	
07 22 16 00-0071 SF 3.5" Thick, R18.0, Polyisocyanurate And Oriented Strand Board, Nailbase Roof Board Insulation, Cold Adhesive Applied	6.59	
07 22 16 00-0072 SF 4" Thick, R21.1, Polyisocyanurate And Oriented Strand Board, Nailbase Roof Board Insulation, Cold Adhesive Applied	6.81	
07 22 16 00-0073 SF 4.5" Thick, R24.2, Polyisocyanurate And Oriented Strand Board, Nailbase Roof Board Insulation, Cold Adhesive Applied	7.17	
07 22 16 00-0074 Cold Adhesive Applied, Polyisocyanurate And Oriented Strand Board With Air Vent Spacer Strips, Nailbase Roof Board Insulation (07 22 16 00-0002)		
<i>Note: Includes a polyisocyanurate foam core bonded to a 7/16" oriented strand board (OSB) facer.</i>		
07 22 16 00-0075 SF 2.5" Thick, R5.7, Polyisocyanurate And Oriented Strand Board With Air Vent Spacer Strips, Nailbase Roof Board Insulation, Cold Adhesive Applied	5.27	
07 22 16 00-0076 SF 3" Thick, R8.6, Polyisocyanurate And Oriented Strand Board With Air Vent Spacer Strips, Nailbase Roof Board Insulation, Cold Adhesive Applied	5.74	
07 22 16 00-0077 SF 3.5" Thick, R11.4, Polyisocyanurate And Oriented Strand Board With Air Vent Spacer Strips, Nailbase Roof Board Insulation, Cold Adhesive Applied	6.29	
07 22 16 00-0078 SF 4" Thick, R14.4, Polyisocyanurate And Oriented Strand Board With Air Vent Spacer Strips, Nailbase Roof Board Insulation, Cold Adhesive Applied	6.66	
07 22 16 00-0079 SF 4.5" Thick, R17.4, Polyisocyanurate And Oriented Strand Board With Air Vent Spacer Strips, Nailbase Roof Board Insulation, Cold Adhesive Applied	7.11	
07 22 16 00-0080 SF 5" Thick, R20.5, Polyisocyanurate And Oriented Strand Board With Air Vent Spacer Strips, Nailbase Roof Board Insulation, Cold Adhesive Applied	7.61	
07 22 16 00-0081 SF 5.5" Thick, R23.6, Polyisocyanurate And Oriented Strand Board With Air Vent Spacer Strips, Nailbase Roof Board Insulation, Cold Adhesive Applied	8.51	
07 22 16 00-0082 Hot-Mopped Rigid Board Roofing Insulation (07 22 16 00-0001)		
07 22 16 00-0083 Hot-Mopped, High-Density Fiberboard, Roof Board Insulation (07 22 16 00-0082)		
07 22 16 00-0084 SF 1/2" Thick, R1.3, High-Density Fiberboard, Roof Board Insulation, Hot-Mopped	2.23	
07 22 16 00-0085 SF 25/32" Thick, R1.9, High-Density Fiberboard, Roof Board Insulation, Hot-Mopped	2.64	
07 22 16 00-0086 SF 1" Thick, R2.5, High-Density Fiberboard, Roof Board Insulation, Hot-Mopped	3.07	
07 22 16 00-0087 SF 1-1/2" Thick, R3.8, High-Density Fiberboard, Roof Board Insulation, Hot-Mopped	3.84	
07 22 16 00-0088 SF 2" Thick, R5, High-Density Fiberboard, Roof Board Insulation, Hot-Mopped	4.61	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 22 16 00-0089 Hot-Mopped, Wood Fiber (Cellulosic-Fiber), Roof Board Insulation (07 22 16 00-0082)		
07 22 16 00-0090 SF 1/2" Thick, R1.3, Wood Fiber (Cellulosic-Fiber), Roof Board Insulation, Hot-Mopped	2.44	
07 22 16 00-0091 SF 1" Thick, R2.6, Wood Fiber (Cellulosic-Fiber), Roof Board Insulation, Hot-Mopped	2.94	
07 22 16 00-0092 Hot-Mopped, Perlite, Roof Board Insulation (07 22 16 00-0082)		
07 22 16 00-0093 SF 1/2" Thick, R1.32, Perlite, Roof Board Insulation, Hot-Mopped	2.14	
07 22 16 00-0094 SF 3/4" Thick, R2.08, Perlite, Roof Board Insulation, Hot-Mopped	2.38	
07 22 16 00-0095 SF 1" Thick, R2.78, Perlite, Roof Board Insulation, Hot-Mopped	2.69	
07 22 16 00-0096 SF 1-1/2" Thick, R4.17, Perlite, Roof Board Insulation, Hot-Mopped	3.42	
07 22 16 00-0097 SF 2" Thick, R5.56, Perlite, Roof Board Insulation, Hot-Mopped	3.89	
07 22 16 00-0098 Hot-Mopped, Basalt Mineral Wool, Roof Board Insulation (07 22 16 00-0082)		
07 22 16 00-0099 SF 1" Thick, R3.5, Basalt Mineral Wool, Roof Board Insulation, Hot-Mopped	3.09	
07 22 16 00-0100 SF 2" Thick, R7.4, Basalt Mineral Wool, Roof Board Insulation, Hot-Mopped	4.25	
07 22 16 00-0101 SF 3" Thick, R11.1, Basalt Mineral Wool, Roof Board Insulation, Hot-Mopped	5.66	
07 22 16 00-0102 Hot-Mopped, Foam Glass (Cellular Glass), Roof Board Insulation (07 22 16 00-0082)		
07 22 16 00-0103 SF 1-1/2" Thick, R5.16, Foam Glass (Cellular Glass), Roof Board Insulation, Hot-Mopped	6.02	
07 22 16 00-0104 SF 2" Thick, R6.88, Foam Glass (Cellular Glass), Roof Board Insulation, Hot-Mopped	7.15	
07 22 16 00-0105 SF 2-3/4" Thick, R8.17, Foam Glass (Cellular Glass), Roof Board Insulation, Hot-Mopped	9.42	
07 22 16 00-0106 SF 3-1/2" Thick, R12.04, Foam Glass (Cellular Glass), Roof Board Insulation, Hot-Mopped	12.31	
07 22 16 00-0107 Hot-Mopped, Molded Expanded Polystyrene, Roof Board Insulation (07 22 16 00-0082)		
07 22 16 00-0108 SF 3/8" Thick, R1.44, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Hot-Mopped	2.08	
07 22 16 00-0109 SF 1/2" Thick, R1.93, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Hot-Mopped	2.15	
07 22 16 00-0110 SF 3/4" Thick, R2.89, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Hot-Mopped	2.30	
07 22 16 00-0111 SF 1" Thick, R3.85, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Hot-Mopped	2.69	
07 22 16 00-0112 SF 2" Thick, R7.70, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Hot-Mopped	3.80	
07 22 16 00-0113 SF 3" Thick, R11.55, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Hot-Mopped	4.92	
07 22 16 00-0114 SF 4" Thick, R15.40, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Hot-Mopped	6.02	
07 22 16 00-0115 SF 5" Thick, R19.25, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Hot-Mopped	7.13	
07 22 16 00-0116 SF 6" Thick, R23.1, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Hot-Mopped	8.23	
07 22 16 00-0117 Hot-Mopped, Extruded Polystyrene, Roof Board Insulation (07 22 16 00-0082)		
Note: 15 PSI compressive strength.		
07 22 16 00-0118 SF 3/4" Thick, R3.7, Extruded Polystyrene, Roof Board Insulation, Hot-Mopped	2.90	
For 25 PSI Compressive Strength, Add	0.27	
For 40 PSI Compressive Strength, Add	0.64	
For 60 PSI Compressive Strength, Add	1.04	
For 115 PSI Compressive Strength, Add	4.44	
07 22 16 00-0119 SF 1" Thick, R5.0, Extruded Polystyrene, Roof Board Insulation, Hot-Mopped	2.98	
For 25 PSI Compressive Strength, Add	0.28	
For 40 PSI Compressive Strength, Add	0.67	
For 60 PSI Compressive Strength, Add	1.08	
For 115 PSI Compressive Strength, Add	4.62	
07 22 16 00-0120 SF 1-1/2" Thick, R7.5, Extruded Polystyrene, Roof Board Insulation, Hot-Mopped	3.85	
For 25 PSI Compressive Strength, Add	0.42	
For 40 PSI Compressive Strength, Add	1.00	
For 60 PSI Compressive Strength, Add	1.58	
For 100 PSI Compressive Strength, Add	2.03	
For 115 PSI Compressive Strength, Add	6.86	
07 22 16 00-0121 SF 2" Thick, R10.0, Extruded Polystyrene, Roof Board Insulation, Hot-Mopped	4.62	
For 25 PSI Compressive Strength, Add	0.52	
For 40 PSI Compressive Strength, Add	1.22	
For 60 PSI Compressive Strength, Add	1.94	
For 115 PSI Compressive Strength, Add	8.42	
07 22 16 00-0122 SF 2-1/2" Thick, R12.5, Extruded Polystyrene, Roof Board Insulation, Hot-Mopped	16.82	
For 25 PSI Compressive Strength, Add	0.67	
For 40 PSI Compressive Strength, Add	1.59	
For 60 PSI Compressive Strength, Add	3.06	
For 100 PSI Compressive Strength, Add	3.77	
For 115 PSI Compressive Strength, Add	12.01	
07 22 16 00-0123 SF 3" Thick, R15.0, Extruded Polystyrene, Roof Board Insulation, Hot-Mopped	6.00	
For 25 PSI Compressive Strength, Add	0.75	
For 40 PSI Compressive Strength, Add	1.78	
For 60 PSI Compressive Strength, Add	2.79	
For 115 PSI Compressive Strength, Add	12.18	
07 22 16 00-0124 SF 4" Thick, R20.0, Extruded Polystyrene, Roof Board Insulation, Hot-Mopped	6.75	
For 25 PSI Compressive Strength, Add	0.87	
For 40 PSI Compressive Strength, Add	2.06	
For 60 PSI Compressive Strength, Add	3.21	
For 115 PSI Compressive Strength, Add	14.06	
07 22 16 00-0125 Hot-Mopped, Polyisocyanurate Board Roofing Insulation (07 22 16 00-0082)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 22 16 00-0126 SF 3/4" Thick, R4.3, Polyisocyanurate, Roof Board Insulation, Hot-Mopped <i>For Foil Facer, Add</i> <i>For 25 PSI Compressive Strength, Add</i>	2.58 0.36 0.14	
07 22 16 00-0127 SF 1" Thick, R5.7, Polyisocyanurate, Roof Board Insulation, Hot-Mopped <i>For Foil Facer, Add</i> <i>For 25 PSI Compressive Strength, Add</i>	2.68 0.36 0.15	
07 22 16 00-0128 SF 1-1/2" Thick, R8.6, Polyisocyanurate, Roof Board Insulation, Hot-Mopped <i>For Foil Facer, Add</i> <i>For 25 PSI Compressive Strength, Add</i>	2.86 0.36 0.16	
07 22 16 00-0129 SF 2" Thick, R11.4, Polyisocyanurate, Roof Board Insulation, Hot-Mopped <i>For Foil Facer, Add</i> <i>For 25 PSI Compressive Strength, Add</i>	3.31 0.36 0.21	
07 22 16 00-0130 SF 2-1/2" Thick, R14.4, Polyisocyanurate, Roof Board Insulation, Hot-Mopped <i>For Foil Facer, Add</i> <i>For 25 PSI Compressive Strength, Add</i>	3.78 0.36 0.25	
07 22 16 00-0131 SF 3" Thick, R17.4, Polyisocyanurate, Roof Board Insulation, Hot-Mopped <i>For Foil Facer, Add</i> <i>For 25 PSI Compressive Strength, Add</i>	4.24 0.36 0.29	
07 22 16 00-0132 SF 3-1/2" Thick, R20.5, Polyisocyanurate, Roof Board Insulation, Hot-Mopped <i>For Foil Facer, Add</i> <i>For 25 PSI Compressive Strength, Add</i>	4.60 0.36 0.34	
07 22 16 00-0133 SF 4" Thick, R23.6, Polyisocyanurate, Roof Board Insulation, Hot-Mopped <i>For Foil Facer, Add</i> <i>For 25 PSI Compressive Strength, Add</i>	5.16 0.36 0.38	
07 22 16 00-0134 Hot-Mopped, Gypsum-Fiber, Roof Board Insulation (USG Securock) (07 22 16 00-0082)		
07 22 16 00-0135 SF 1/4" Thick, R0.2, Gypsum-Fiber, Roof Board Insulation (USG Securock Gypsum), Hot-Mopped	2.81	
07 22 16 00-0136 SF 3/8" Thick, R0.3, Gypsum-Fiber, Roof Board Insulation (USG Securock Gypsum), Hot-Mopped	2.99	
07 22 16 00-0137 SF 1/2" Thick, R0.5, Gypsum-Fiber, Roof Board Insulation (USG Securock Gypsum), Hot-Mopped	3.12	
07 22 16 00-0138 SF 5/8" Thick, R0.6, Gypsum-Fiber, Roof Board Insulation (USG Securock Gypsum), Hot-Mopped	3.18	
07 22 16 00-0139 Hot-Mopped, Glass-Mat, Roof Board Insulation (USG Securock) (07 22 16 00-0082)		
07 22 16 00-0140 SF 1/4" Thick, R0.36, Glass-Mat, Roof Board Insulation (USG Securock Glass-Mat), Hot-Mopped	2.74	
07 22 16 00-0141 SF 1/2" Thick, R0.53, Glass-Mat, Roof Board Insulation (USG Securock Glass-Mat), Hot-Mopped	3.02	
07 22 16 00-0142 SF 5/8" Thick, R0.54, Glass-Mat, Roof Board Insulation (USG Securock Glass-Mat), Hot-Mopped	3.09	
07 22 16 00-0143 Mechanically Fastened Rigid Board Roofing Insulation (07 22 16 00-0001)		
Note: Mechanically fastened to wood or steel.		
07 22 16 00-0144 Mechanically Fastened, High-Density Fiberboard, Roof Board Insulation (07 22 16 00-0143)		
Note: Mechanically fastened to wood or steel.		
07 22 16 00-0145 SF 1/2" Thick, R1.3, High-Density Fiberboard, Roof Board Insulation, Mechanically Fastened	2.29	
<i>For Mechanically Fastened To Concrete, Add</i>		1.57
<i>For Mechanically Fastened To Gypsum, Add</i>		2.07
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>		0.72
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>		2.47
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>		2.56
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>		1.09
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>		3.51
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>		3.84
07 22 16 00-0146 SF 25/32" Thick, R1.9, High-Density Fiberboard, Roof Board Insulation, Mechanically Fastened	2.72	
<i>For Mechanically Fastened To Concrete, Add</i>		1.57
<i>For Mechanically Fastened To Gypsum, Add</i>		2.07
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>		0.72
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>		2.49
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>		2.56
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>		1.09
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>		3.53
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>		3.84
07 22 16 00-0147 SF 1" Thick, R2.5, High-Density Fiberboard, Roof Board Insulation, Mechanically Fastened	3.13	
<i>For Mechanically Fastened To Concrete, Add</i>		1.57
<i>For Mechanically Fastened To Gypsum, Add</i>		2.07
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>		0.72
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>		2.52
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>		2.56
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>		1.09
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>		3.56
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>		3.84
07 22 16 00-0148 SF 1-1/2" Thick, R3.8, High-Density Fiberboard, Roof Board Insulation, Mechanically Fastened	3.98	
<i>For Mechanically Fastened To Concrete, Add</i>		1.62
<i>For Mechanically Fastened To Gypsum, Add</i>		2.07
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>		0.90
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>		2.20
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>		2.56
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>		1.34
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>		3.30
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>		3.84

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 22 16 00-0149 SF 2" Thick, R5, High-Density Fiberboard, Roof Board Insulation, Mechanically Fastened.....	4.73	
For Mechanically Fastened To Concrete, Add	1.62	
For Mechanically Fastened To Gypsum, Add	2.01	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.90	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.20	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.59	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.34	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.30	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.88	
07 22 16 00-0150 Mechanically Fastened, Wood Fiber (Cellulosic-Fiber), Roof Board Insulation (07 22 16 00-0143)		
Note: Mechanically fastened to wood or steel.		
07 22 16 00-0151 SF 1/2" Thick, R1.3, Wood Fiber (Cellulosic-Fiber), Roof Board Insulation, Mechanically Fastened	2.51	
For Mechanically Fastened To Concrete, Add	1.57	
For Mechanically Fastened To Gypsum, Add	2.07	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.72	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.52	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.56	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.09	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.56	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.84	
07 22 16 00-0152 SF 1" Thick, R2.6, Wood Fiber (Cellulosic-Fiber), Roof Board Insulation, Mechanically Fastened	3.00	
For Mechanically Fastened To Concrete, Add	1.57	
For Mechanically Fastened To Gypsum, Add	2.07	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.72	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.52	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.56	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.09	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.56	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.84	
07 22 16 00-0153 Mechanically Fastened, Perlite, Roof Board Insulation (07 22 16 00-0143)		
Note: Mechanically fastened to wood or steel.		
07 22 16 00-0154 SF 1/2" Thick, R1.32, Perlite, Roof Board Insulation, Mechanically Fastened	2.23	
For Mechanically Fastened To Concrete, Add	1.57	
For Mechanically Fastened To Gypsum, Add	2.07	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.72	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.42	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.56	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.09	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.46	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.84	
07 22 16 00-0155 SF 3/4" Thick, R2.08, Perlite, Roof Board Insulation, Mechanically Fastened	2.48	
For Mechanically Fastened To Concrete, Add	1.57	
For Mechanically Fastened To Gypsum, Add	2.07	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.72	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.42	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.56	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.09	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.46	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.84	
07 22 16 00-0156 SF 1" Thick, R2.78, Perlite, Roof Board Insulation, Mechanically Fastened	2.78	
For Mechanically Fastened To Concrete, Add	1.57	
For Mechanically Fastened To Gypsum, Add	2.07	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.72	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.42	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.56	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.09	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.46	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.84	
07 22 16 00-0157 SF 1-1/2" Thick, R4.17, Perlite, Roof Board Insulation, Mechanically Fastened	3.61	
For Mechanically Fastened To Concrete, Add	1.62	
For Mechanically Fastened To Gypsum, Add	2.07	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.90	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.20	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.56	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.34	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.30	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.84	
07 22 16 00-0158 SF 2" Thick, R5.56, Perlite, Roof Board Insulation, Mechanically Fastened	4.07	
For Mechanically Fastened To Concrete, Add	1.62	
For Mechanically Fastened To Gypsum, Add	2.01	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.90	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.20	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.59	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.34	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.30	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.88	
07 22 16 00-0159 Mechanically Fastened, Basalt Mineral Wool, Roof Board Insulation (07 22 16 00-0143)		
Note: Mechanically fastened to wood or steel.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 22 16 00-0160 SF 1" Thick, R3.5, Basalt Mineral Wool, Roof Board Insulation, Mechanically Fastened.....	3.18	
<i>For Mechanically Fastened To Concrete, Add</i>	1.57	
<i>For Mechanically Fastened To Gypsum, Add</i>	2.07	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.72	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.42	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.56	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.09	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.46	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.84	
07 22 16 00-0161 SF 2" Thick, R7.4, Basalt Mineral Wool, Roof Board Insulation, Mechanically Fastened.....	4.43	
<i>For Mechanically Fastened To Concrete, Add</i>	1.62	
<i>For Mechanically Fastened To Gypsum, Add</i>	2.01	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.90	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.20	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.59	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.34	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.30	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.88	
07 22 16 00-0162 SF 3" Thick, R11.1, Basalt Mineral Wool, Roof Board Insulation, Mechanically Fastened.....	5.91	
<i>For Mechanically Fastened To Concrete, Add</i>	1.67	
<i>For Mechanically Fastened To Gypsum, Add</i>	2.10	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.02	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.73	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.80	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.53	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.89	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	4.14	
07 22 16 00-0163 Mechanically Fastened, Foam Glass (Cellular Glass), Roof Board Insulation		
<small>(07 22 16 00-0143)</small>		
Note: Mechanically fastened to wood or steel.		
07 22 16 00-0164 SF 1-1/2" Thick, R5.16, Foam Glass (Cellular Glass), Roof Board Insulation, Mechanically Fastened	6.20	
<i>For Mechanically Fastened To Concrete, Add</i>	1.62	
<i>For Mechanically Fastened To Gypsum, Add</i>	2.07	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.90	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.20	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.56	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.34	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.30	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.84	
07 22 16 00-0165 SF 2" Thick, R6.88, Foam Glass (Cellular Glass), Roof Board Insulation, Mechanically Fastened.....	7.33	
<i>For Mechanically Fastened To Concrete, Add</i>	1.62	
<i>For Mechanically Fastened To Gypsum, Add</i>	2.01	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.90	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.20	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.59	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.34	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.30	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.88	
07 22 16 00-0166 SF 2-3/4" Thick, R8.17, Foam Glass (Cellular Glass), Roof Board Insulation, Mechanically Fastened	9.68	
<i>For Mechanically Fastened To Concrete, Add</i>	1.67	
<i>For Mechanically Fastened To Gypsum, Add</i>	2.10	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.02	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.73	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.80	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.53	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.89	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	4.14	
07 22 16 00-0167 SF 3-1/2" Thick, R12.04, Foam Glass (Cellular Glass), Roof Board Insulation, Mechanically Fastened	12.71	
<i>For Mechanically Fastened To Concrete, Add</i>	1.71	
<i>For Mechanically Fastened To Gypsum, Add</i>	2.02	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.21	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.53	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	3.23	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.81	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.80	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	4.66	
07 22 16 00-0168 Mechanically Fastened, Molded Expanded Polystyrene, Roof Board Insulation		
<small>(07 22 16 00-0143)</small>		
Note: Mechanically fastened to wood or steel.		
07 22 16 00-0169 SF 3/8" Thick, R1.44, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Mechanically Fastened.....	2.16	
<i>For Mechanically Fastened To Concrete, Add</i>	1.57	
<i>For Mechanically Fastened To Gypsum, Add</i>	2.07	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.72	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.45	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.56	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.09	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.49	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.84	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 22 16 00-0170 SF 1/2" Thick, R1.93, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Mechanically Fastened.....	2.24	
For Mechanically Fastened To Concrete, Add	1.57	
For Mechanically Fastened To Gypsum, Add	2.07	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.72	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.45	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.56	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.09	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.49	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.84	
07 22 16 00-0171 SF 3/4" Thick, R2.89, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Mechanically Fastened.....	2.51	
For Mechanically Fastened To Concrete, Add	1.57	
For Mechanically Fastened To Gypsum, Add	2.07	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.72	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.45	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.56	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.09	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.49	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.84	
07 22 16 00-0172 SF 1" Thick, R3.85, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Mechanically Fastened.....	2.78	
For Mechanically Fastened To Concrete, Add	1.57	
For Mechanically Fastened To Gypsum, Add	2.07	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.72	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.45	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.56	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.09	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.49	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.84	
07 22 16 00-0173 SF 2" Thick, R7.70, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Mechanically Fastened.....	3.97	
For Mechanically Fastened To Concrete, Add	1.62	
For Mechanically Fastened To Gypsum, Add	2.07	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.90	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.20	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.59	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.34	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.30	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.88	
07 22 16 00-0174 SF 3" Thick, R11.55, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Mechanically Fastened.....	5.17	
For Mechanically Fastened To Concrete, Add	1.67	
For Mechanically Fastened To Gypsum, Add	2.10	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	1.02	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.76	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.80	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.53	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.92	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	4.14	
07 22 16 00-0175 SF 4" Thick, R15.40, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Mechanically Fastened.....	6.42	
For Mechanically Fastened To Concrete, Add	1.71	
For Mechanically Fastened To Gypsum, Add	2.09	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	1.21	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.53	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.91	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.81	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.80	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	4.37	
07 22 16 00-0176 SF 5" Thick, R19.25, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Mechanically Fastened.....	7.71	
For Mechanically Fastened To Concrete, Add	1.76	
For Mechanically Fastened To Gypsum, Add	2.06	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	1.43	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.76	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	3.51	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	2.15	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	4.15	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	5.04	
07 22 16 00-0177 SF 6" Thick, R23.1, Molded Expanded Polystyrene, Roof Board Insulation (MEPS), Mechanically Fastened.....	9.34	
For Mechanically Fastened To Concrete, Add	1.81	
For Mechanically Fastened To Gypsum, Add	2.03	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	1.76	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	3.10	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	3.77	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	2.63	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	4.64	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	5.42	

07 22 16 00-0178 Mechanically Fastened, Extruded Polystyrene, Roof Board Insulation (07 22 16 00-0143)
 Note: 15 PSI compressive strength. Mechanically fastened to wood or steel.



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 22 16 00-0179 SF 3/4" Thick, R3.7, Extruded Polystyrene, Roof Board Insulation, Mechanically Fastened	3.00	
For 25 PSI Compressive Strength, Add	0.30	
For 40 PSI Compressive Strength, Add	0.72	
For 60 PSI Compressive Strength, Add	1.15	
For 115 PSI Compressive Strength, Add	4.97	
For Mechanically Fastened To Concrete, Add	1.57	
For Mechanically Fastened To Gypsum, Add	2.07	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.72	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.42	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.56	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.09	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.46	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.84	
07 22 16 00-0180 SF 1" Thick, R5.0, Extruded Polystyrene, Roof Board Insulation, Mechanically Fastened	3.08	
For 25 PSI Compressive Strength, Add	0.31	
For 40 PSI Compressive Strength, Add	0.74	
For 60 PSI Compressive Strength, Add	1.19	
For 115 PSI Compressive Strength, Add	5.15	
For Mechanically Fastened To Concrete, Add	1.57	
For Mechanically Fastened To Gypsum, Add	2.07	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.72	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.42	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.56	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.09	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.46	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.84	
07 22 16 00-0181 SF 1-1/2" Thick, R7.5, Extruded Polystyrene, Roof Board Insulation, Mechanically Fastened	4.04	
For 25 PSI Compressive Strength, Add	0.47	
For 40 PSI Compressive Strength, Add	1.11	
For 60 PSI Compressive Strength, Add	1.75	
For 100 PSI Compressive Strength, Add	2.25	
For 115 PSI Compressive Strength, Add	7.62	
For Mechanically Fastened To Concrete, Add	1.62	
For Mechanically Fastened To Gypsum, Add	2.07	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.90	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.20	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.56	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.34	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.30	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.84	
07 22 16 00-0182 SF 2" Thick, R10.0, Extruded Polystyrene, Roof Board Insulation, Mechanically Fastened	4.66	
For 25 PSI Compressive Strength, Add	0.56	
For 40 PSI Compressive Strength, Add	1.33	
For 60 PSI Compressive Strength, Add	2.09	
For 115 PSI Compressive Strength, Add	9.14	
For Mechanically Fastened To Concrete, Add	1.62	
For Mechanically Fastened To Gypsum, Add	2.01	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.90	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.20	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.59	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.34	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.30	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.88	
07 22 16 00-0183 SF 2-1/2" Thick, R12.5, Extruded Polystyrene, Roof Board Insulation, Mechanically Fastened	5.71	
For 25 PSI Compressive Strength, Add	0.73	
For 40 PSI Compressive Strength, Add	1.73	
For 60 PSI Compressive Strength, Add	2.70	
For 100 PSI Compressive Strength, Add	3.48	
For 115 PSI Compressive Strength, Add	11.83	
For Mechanically Fastened To Concrete, Add	1.67	
For Mechanically Fastened To Gypsum, Add	2.04	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	1.02	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.72	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.71	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.53	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.88	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	4.06	
07 22 16 00-0184 SF 3" Thick, R15.0, Extruded Polystyrene, Roof Board Insulation, Mechanically Fastened	6.25	
For 25 PSI Compressive Strength, Add	0.81	
For 40 PSI Compressive Strength, Add	1.93	
For 60 PSI Compressive Strength, Add	3.00	
For 115 PSI Compressive Strength, Add	13.15	
For Mechanically Fastened To Concrete, Add	1.67	
For Mechanically Fastened To Gypsum, Add	2.10	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	1.02	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.73	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.80	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.53	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.89	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	4.14	

07 Thermal And Moisture Protection**07 20 Thermal Protection****07 22 Roof and Deck Insulation**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

07 22 16 00-0185	SF 4" Thick, R20.0, Extruded Polystyrene, Roof Board Insulation, Mechanically Fastened.....	7.17
	<i>For 25 PSI Compressive Strength, Add</i>	0.95
	<i>For 40 PSI Compressive Strength, Add</i>	2.26
	<i>For 60 PSI Compressive Strength, Add</i>	3.52
	<i>For 115 PSI Compressive Strength, Add</i>	15.44
	<i>For Mechanically Fastened To Concrete, Add</i>	1.71
	<i>For Mechanically Fastened To Gypsum, Add</i>	2.09
	<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.21
	<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.53
	<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.91
	<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.81
	<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.80
	<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	4.37

07 22 16 00-0186 Mechanically Fastened, Polyisocyanurate Board Roofing Insulation (07 22 16 00-0143)

Note: Mechanically fastened to wood or steel.

07 22 16 00-0187	SF 3/4" Thick, R4.3, Polyisocyanurate, Roof Board Insulation, Mechanically Fastened	2.66
	<i>For Foil Facer, Add</i>	0.36
	<i>For 25 PSI Compressive Strength, Add</i>	0.16
	<i>For Mechanically Fastened To Concrete, Add</i>	1.57
	<i>For Mechanically Fastened To Gypsum, Add</i>	2.07
	<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.72
	<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.42
	<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.56
	<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.09
	<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.46
	<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.84
07 22 16 00-0188	SF 1" Thick, R5.7, Polyisocyanurate, Roof Board Insulation, Mechanically Fastened	2.78
	<i>For Foil Facer, Add</i>	0.36
	<i>For 25 PSI Compressive Strength, Add</i>	0.17
	<i>For Mechanically Fastened To Concrete, Add</i>	1.57
	<i>For Mechanically Fastened To Gypsum, Add</i>	2.07
	<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.72
	<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.42
	<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.56
	<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.09
	<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.46
	<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.84
07 22 16 00-0189	SF 1-1/2" Thick, R8.6, Polyisocyanurate, Roof Board Insulation, Mechanically Fastened	3.04
	<i>For Foil Facer, Add</i>	0.36
	<i>For 25 PSI Compressive Strength, Add</i>	0.19
	<i>For Mechanically Fastened To Concrete, Add</i>	1.62
	<i>For Mechanically Fastened To Gypsum, Add</i>	2.07
	<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.90
	<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.20
	<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.56
	<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.34
	<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.30
	<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.84
07 22 16 00-0190	SF 2" Thick, R11.4, Polyisocyanurate, Roof Board Insulation, Mechanically Fastened	3.49
	<i>For Foil Facer, Add</i>	0.36
	<i>For 25 PSI Compressive Strength, Add</i>	0.23
	<i>For Mechanically Fastened To Concrete, Add</i>	1.62
	<i>For Mechanically Fastened To Gypsum, Add</i>	2.01
	<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.90
	<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.20
	<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.59
	<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.34
	<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.30
	<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.88
07 22 16 00-0191	SF 2-1/2" Thick, R14.4, Polyisocyanurate, Roof Board Insulation, Mechanically Fastened	4.03
	<i>For Foil Facer, Add</i>	0.36
	<i>For 25 PSI Compressive Strength, Add</i>	0.29
	<i>For Mechanically Fastened To Concrete, Add</i>	1.67
	<i>For Mechanically Fastened To Gypsum, Add</i>	2.04
	<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.02
	<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.72
	<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.71
	<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.53
	<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.88
	<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	4.06
07 22 16 00-0192	SF 3" Thick, R17.4, Polyisocyanurate, Roof Board Insulation, Mechanically Fastened	4.49
	<i>For Foil Facer, Add</i>	0.36
	<i>For 25 PSI Compressive Strength, Add</i>	0.33
	<i>For Mechanically Fastened To Concrete, Add</i>	1.67
	<i>For Mechanically Fastened To Gypsum, Add</i>	2.10
	<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.02
	<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.73
	<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.80
	<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.53
	<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.89
	<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	4.14



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

07

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 22 16 00-0193 SF 3-1/2" Thick, R20.5, Polyisocyanurate, Roof Board Insulation, Mechanically Fastened	5.13	
For Foil Facer, Add	0.36	
For 25 PSI Compressive Strength, Add	0.39	
For Mechanically Fastened To Concrete, Add	1.71	
For Mechanically Fastened To Gypsum, Add	2.02	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	1.21	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.53	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	3.23	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.81	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.80	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	4.66	
07 22 16 00-0194 SF 4" Thick, R23.6, Polyisocyanurate, Roof Board Insulation, Mechanically Fastened	5.58	
For Foil Facer, Add	0.36	
For 25 PSI Compressive Strength, Add	0.44	
For Mechanically Fastened To Concrete, Add	1.71	
For Mechanically Fastened To Gypsum, Add	2.09	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	1.21	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.53	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.91	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.81	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.80	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	4.37	
07 22 16 00-0195 Mechanically Fastened, High-Density Polyisocyanurate Cover Board And Roofing Insulation <small>(07 22 16 00-0143)</small>		
Note: Mechanically fastened to wood or steel.		
07 22 16 00-0196 SF 1/2" Thick, R2.5, High-Density Polyisocyanurate Cover Board And Roofing Insulation, Mechanically Fastened	3.04	
For Mechanically Fastened To Concrete, Add	1.57	
For Mechanically Fastened To Gypsum, Add	2.07	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.72	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.47	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.56	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.09	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.51	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.84	
07 22 16 00-0197 Mechanically Fastened, Gypsum-Fiber, Roof Board Insulation (USG Securock) <small>(07 22 16 00-0143)</small>		
Note: Mechanically fastened to wood or steel.		
07 22 16 00-0198 SF 1/4" Thick, R0.2, Gypsum-Fiber, Roof Board Insulation (USG Securock Gypsum), Mechanically Fastened	2.87	
For Mechanically Fastened To Concrete, Add	1.57	
For Mechanically Fastened To Gypsum, Add	2.07	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.72	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.47	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.56	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.09	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.51	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.84	
07 22 16 00-0199 SF 3/8" Thick, R0.3, Gypsum-Fiber, Roof Board Insulation (USG Securock Gypsum), Mechanically Fastened	3.06	
For Mechanically Fastened To Concrete, Add	1.57	
For Mechanically Fastened To Gypsum, Add	2.07	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.72	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.47	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.56	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.09	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.51	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.84	
07 22 16 00-0200 SF 1/2" Thick, R0.5, Gypsum-Fiber, Roof Board Insulation (USG Securock Gypsum), Mechanically Fastened	3.18	
For Mechanically Fastened To Concrete, Add	1.57	
For Mechanically Fastened To Gypsum, Add	2.07	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.72	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.47	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.56	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.09	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.51	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.84	
07 22 16 00-0201 SF 5/8" Thick, R0.6, Gypsum-Fiber, Roof Board Insulation (USG Securock Gypsum), Mechanically Fastened	3.25	
For Mechanically Fastened To Concrete, Add	1.57	
For Mechanically Fastened To Gypsum, Add	2.07	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.72	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.47	
For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add	2.56	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.09	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.51	
For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add	3.84	
07 22 16 00-0202 Mechanically Fastened, Glass-Mat, Roof Board Insulation (USG Securock) <small>(07 22 16 00-0143)</small>		
Note: Mechanically fastened to wood or steel.		

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 22 16 00-0203	SF	1/4"	Thick, R0.36, Glass-Mat, Roof Board Insulation (USG Securock Glass-Mat), Mechanically Fastened.....	2.81	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.57	
			<i>For Mechanically Fastened To Gypsum, Add</i>	2.07	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.72	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.47	
			<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.56	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.09	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.51	
			<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.84	
07 22 16 00-0204	SF	1/2"	Thick, R0.53, Glass-Mat, Roof Board Insulation (USG Securock Glass-Mat), Mechanically Fastened.....	3.09	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.57	
			<i>For Mechanically Fastened To Gypsum, Add</i>	2.07	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.72	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.47	
			<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.56	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.09	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.51	
			<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.84	
07 22 16 00-0205	SF	5/8"	Thick, R0.54, Glass-Mat, Roof Board Insulation (USG Securock Glass-Mat), Mechanically Fastened.....	3.15	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.57	
			<i>For Mechanically Fastened To Gypsum, Add</i>	2.07	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.72	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.47	
			<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.56	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.09	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.51	
			<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.84	
07 22 16 00-0206			Mechanically Fastened, Polyisocyanurate And Oriented Strand Board, Nailbase Roof Board Insulation <small>(07 22 16 00-0143)</small>		
			Note: Includes a polyisocyanurate foam core bonded to a 7/16" oriented strand board (OSB) facer. Mechanically fastened to wood or steel.		
07 22 16 00-0207	SF	1.5"	Thick, R6.2, Polyisocyanurate And Oriented Strand Board, Nailbase Roof Board Insulation, Mechanically Fastened.....	5.11	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.62	
			<i>For Mechanically Fastened To Gypsum, Add</i>	2.07	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.90	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.20	
			<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.59	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.34	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.30	
			<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.88	
07 22 16 00-0208	SF	2"	Thick, R9.1, Polyisocyanurate And Oriented Strand Board, Nailbase Roof Board Insulation, Mechanically Fastened.....	5.37	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.62	
			<i>For Mechanically Fastened To Gypsum, Add</i>	2.01	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.90	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.20	
			<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.59	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.34	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.30	
			<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.88	
07 22 16 00-0209	SF	2.5"	Thick, R12.0, Polyisocyanurate And Oriented Strand Board, Nailbase Roof Board Insulation, Mechanically Fastened.....	5.82	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.67	
			<i>For Mechanically Fastened To Gypsum, Add</i>	2.04	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.02	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.90	
			<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.71	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.53	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	4.06	
			<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	4.06	
07 22 16 00-0210	SF	3"	Thick, R15.0, Polyisocyanurate And Oriented Strand Board, Nailbase Roof Board Insulation, Mechanically Fastened.....	6.05	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.67	
			<i>For Mechanically Fastened To Gypsum, Add</i>	2.10	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.02	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.91	
			<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.80	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.53	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	4.07	
			<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	4.14	
07 22 16 00-0211	SF	3.5"	Thick, R18.0, Polyisocyanurate And Oriented Strand Board, Nailbase Roof Board Insulation, Mechanically Fastened.....	6.72	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.71	
			<i>For Mechanically Fastened To Gypsum, Add</i>	2.02	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.21	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.53	
			<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	3.42	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.81	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.80	
			<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	4.85	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 22 16 00-0212 SF 4" Thick, R21.1, Polyisocyanurate And Oriented Strand Board, Nailbase Roof Board Insulation, Mechanically Fastened	6.94	
<i>For Mechanically Fastened To Concrete, Add</i>	1.71	
<i>For Mechanically Fastened To Gypsum, Add</i>	2.09	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.21	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.53	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.91	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.81	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.80	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	4.37	
07 22 16 00-0213 SF 4.5" Thick, R24.2, Polyisocyanurate And Oriented Strand Board, Nailbase Roof Board Insulation, Mechanically Fastened	7.48	
<i>For Mechanically Fastened To Concrete, Add</i>	1.76	
<i>For Mechanically Fastened To Gypsum, Add</i>	2.06	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.43	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.76	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	3.70	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	2.15	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	4.15	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	5.23	
07 22 16 00-0214 Mechanically Fastened, Polyisocyanurate And Oriented Strand Board With Air Vent Spacer Strips, Nailbase Roof Board Insulation (07 22 16 00-0143)		
<i>Note: Includes a polyisocyanurate foam core bonded to a 7/16" oriented strand board (OSB) facer. Mechanically fastened to wood or steel.</i>		
07 22 16 00-0215 SF 2.5" Thick, R5.7, Polyisocyanurate And Oriented Strand Board With Air Vent Spacer Strips, Nailbase Roof Board Insulation, Mechanically Fastened	5.25	
<i>For Mechanically Fastened To Concrete, Add</i>	1.67	
<i>For Mechanically Fastened To Gypsum, Add</i>	2.04	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.02	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.89	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.71	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.53	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	4.05	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	4.06	
07 22 16 00-0216 SF 3" Thick, R8.6, Polyisocyanurate And Oriented Strand Board With Air Vent Spacer Strips, Nailbase Roof Board Insulation, Mechanically Fastened	5.71	
<i>For Mechanically Fastened To Concrete, Add</i>	1.67	
<i>For Mechanically Fastened To Gypsum, Add</i>	2.10	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.02	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.90	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.80	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.53	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	4.06	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	4.14	
07 22 16 00-0217 SF 3.5" Thick, R11.4, Polyisocyanurate And Oriented Strand Board With Air Vent Spacer Strips, Nailbase Roof Board Insulation, Mechanically Fastened	6.42	
<i>For Mechanically Fastened To Concrete, Add</i>	1.71	
<i>For Mechanically Fastened To Gypsum, Add</i>	2.02	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.21	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.53	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	3.40	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.81	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.80	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	4.83	
07 22 16 00-0218 SF 4" Thick, R14.4, Polyisocyanurate And Oriented Strand Board With Air Vent Spacer Strips, Nailbase Roof Board Insulation, Mechanically Fastened	6.79	
<i>For Mechanically Fastened To Concrete, Add</i>	1.71	
<i>For Mechanically Fastened To Gypsum, Add</i>	2.09	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.21	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.53	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.91	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.81	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.80	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	4.37	
07 22 16 00-0219 SF 4.5" Thick, R17.4, Polyisocyanurate And Oriented Strand Board With Air Vent Spacer Strips, Nailbase Roof Board Insulation, Mechanically Fastened	7.43	
<i>For Mechanically Fastened To Concrete, Add</i>	1.76	
<i>For Mechanically Fastened To Gypsum, Add</i>	2.06	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.43	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.76	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	3.65	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	2.15	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	4.15	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	5.18	
07 22 16 00-0220 SF 5" Thick, R20.5, Polyisocyanurate And Oriented Strand Board With Air Vent Spacer Strips, Nailbase Roof Board Insulation, Mechanically Fastened	7.93	
<i>For Mechanically Fastened To Concrete, Add</i>	1.76	
<i>For Mechanically Fastened To Gypsum, Add</i>	2.06	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.43	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.76	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	3.66	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	2.15	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	4.15	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	5.19	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 22 16 00-0221	SF		5.5" Thick, R23.6, Polyisocyanurate And Oriented Strand Board With Air Vent Spacer Strips, Nailbase Roof Board Insulation, Mechanically Fastened.....	9.11	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.81	
			<i>For Mechanically Fastened To Gypsum, Add</i>	2.03	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.76	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	3.10	
			<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	3.95	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	2.63	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	4.64	
			<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	5.60	
07 22 16 00-0222			Rigid Board Tapered Roofing Insulation <small>(07 22 16)</small> Note: Includes tapered board and filler board required to maintain slope starting at 1/2" minimum thickness. Excludes base layer of board, if required. Average thickness and average R-value of tapered system excludes thickness and R-value of base layer insulation and/or cover board. See CSI section 07 22 16 00-0466 for demolition of insulation board.		
07 22 16 00-0223			Cold Adhesive Applied Rigid Board Tapered Roofing Insulation <small>(07 22 16 00-0222)</small>		
07 22 16 00-0224			Cold Adhesive Applied, Tapered Polyisocyanurate Board <small>(07 22 16 00-0223)</small> Note: Includes polyurethane adhesive.		
07 22 16 00-0225			Cold Adhesive Applied, 1/8" Slope, Tapered Polyisocyanurate Board <small>(07 22 16 00-0224)</small>		
07 22 16 00-0226	SF		2.25" Average Thickness (12.8 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Cold Adhesive Applied.....	5.05	
			<i>For 25 PSI Compressive Strength, Add</i>	0.34	
07 22 16 00-0227	SF		2.75" Average Thickness (15.7 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Cold Adhesive Applied.....	7.00	
			<i>For 25 PSI Compressive Strength, Add</i>	0.40	
07 22 16 00-0228	SF		3.25" Average Thickness (18.5 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Cold Adhesive Applied.....	7.60	
			<i>For 25 PSI Compressive Strength, Add</i>	0.46	
07 22 16 00-0229	SF		3.75" Average Thickness (21.4 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Cold Adhesive Applied.....	8.20	
			<i>For 25 PSI Compressive Strength, Add</i>	0.52	
07 22 16 00-0230	SF		4.25" Average Thickness (24.2 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Cold Adhesive Applied.....	8.80	
			<i>For 25 PSI Compressive Strength, Add</i>	0.58	
07 22 16 00-0231	SF		4.75" Average Thickness (27.1 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Cold Adhesive Applied.....	10.75	
			<i>For 25 PSI Compressive Strength, Add</i>	0.64	
07 22 16 00-0232	SF		5.25" Average Thickness (30.0 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Cold Adhesive Applied.....	11.35	
			<i>For 25 PSI Compressive Strength, Add</i>	0.70	
07 22 16 00-0233	SF		5.75" Average Thickness (32.8 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Cold Adhesive Applied.....	11.95	
			<i>For 25 PSI Compressive Strength, Add</i>	0.76	
07 22 16 00-0234	SF		6.25" Average Thickness (35.6 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Cold Adhesive Applied.....	12.55	
			<i>For 25 PSI Compressive Strength, Add</i>	0.82	
07 22 16 00-0235	SF		6.75" Average Thickness (38.5 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Cold Adhesive Applied.....	14.50	
			<i>For 25 PSI Compressive Strength, Add</i>	0.88	
07 22 16 00-0236			Cold Adhesive Applied, 1/4" Slope, Tapered Polyisocyanurate Board <small>(07 22 16 00-0224)</small>		
07 22 16 00-0237	SF		2" Average Thickness (11.4 Average R-Value), 1/4" Slope, Tapered Polyisocyanurate Board, Cold Adhesive Applied.....	4.75	
			<i>For 25 PSI Compressive Strength, Add</i>	0.31	
07 22 16 00-0238	SF		3" Average Thickness (17.1 Average R-Value), 1/4" Slope, Tapered Polyisocyanurate Board, Cold Adhesive Applied.....	7.30	
			<i>For 25 PSI Compressive Strength, Add</i>	0.43	
07 22 16 00-0239	SF		4" Average Thickness (22.8 Average R-Value), 1/4" Slope, Tapered Polyisocyanurate Board, Cold Adhesive Applied.....	8.50	
			<i>For 25 PSI Compressive Strength, Add</i>	0.55	
07 22 16 00-0240	SF		5" Average Thickness (28.5 Average R-Value), 1/4" Slope, Tapered Polyisocyanurate Board, Cold Adhesive Applied.....	11.05	
			<i>For 25 PSI Compressive Strength, Add</i>	0.67	
07 22 16 00-0241	SF		6" Average Thickness (34.2 Average R-Value), 1/4" Slope, Tapered Polyisocyanurate Board, Cold Adhesive Applied.....	12.25	
			<i>For 25 PSI Compressive Strength, Add</i>	0.79	
07 22 16 00-0242	SF		7" Average Thickness (39.9 Average R-Value), 1/4" Slope, Tapered Polyisocyanurate Board, Cold Adhesive Applied.....	14.80	
			<i>For 25 PSI Compressive Strength, Add</i>	0.91	
07 22 16 00-0243			Cold Adhesive Applied, 1/2" Slope, Tapered Polyisocyanurate Board <small>(07 22 16 00-0224)</small>		
07 22 16 00-0244	SF		3.5" Average Thickness (20.0 Average R-Value), 1/2" Slope, Tapered Polyisocyanurate Board, Cold Adhesive Applied.....	7.90	
			<i>For 25 PSI Compressive Strength, Add</i>	0.49	
07 22 16 00-0245	SF		5.5" Average Thickness (31.4 Average R-Value), 1/2" Slope, Tapered Polyisocyanurate Board, Cold Adhesive Applied.....	11.65	
			<i>For 25 PSI Compressive Strength, Add</i>	0.73	



	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 22 16 00-0246	SF	7.5" Average Thickness (42.8 Average R-Value), 1/2" Slope, Tapered Polyisocyanurate Board, Cold Adhesive Applied <i>For 25 PSI Compressive Strength, Add</i>	15.40	
			0.97	
07 22 16 00-0247	SF	9.5" Average Thickness (54.2 Average R-Value), 1/2" Slope, Tapered Polyisocyanurate Board, Cold Adhesive Applied <i>For 25 PSI Compressive Strength, Add</i>	19.15	
			1.22	
07 22 16 00-0248		Cold Adhesive Applied, Tapered Expanded Polystyrene Board (EPS) <small>(07 22 16 00-0223)</small>		
		<i>Note: Includes polyurethane adhesive.</i>		
07 22 16 00-0249		Cold Adhesive Applied, 1/8" Slope, Tapered Expanded Polystyrene Board (EPS) <small>(07 22 16 00-0248)</small>		
07 22 16 00-0250	SF	2.25" Average Thickness (10.13 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS), Cold Adhesive Applied	4.38	
07 22 16 00-0251	SF	2.75" Average Thickness (12.38 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS), Cold Adhesive Applied	6.33	
07 22 16 00-0252	SF	3.25" Average Thickness (14.63 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS), Cold Adhesive Applied	6.78	
07 22 16 00-0253	SF	3.75" Average Thickness (16.88 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS), Cold Adhesive Applied	7.23	
07 22 16 00-0254	SF	4.25" Average Thickness (19.13 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS), Cold Adhesive Applied	7.68	
07 22 16 00-0255	SF	4.75" Average Thickness (21.38 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS), Cold Adhesive Applied	9.64	
07 22 16 00-0256	SF	5.25" Average Thickness (23.63 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS), Cold Adhesive Applied	10.09	
07 22 16 00-0257	SF	5.75" Average Thickness (25.88 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS), Cold Adhesive Applied	10.54	
07 22 16 00-0258	SF	6.25" Average Thickness (28.13 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS), Cold Adhesive Applied	10.99	
07 22 16 00-0259	SF	6.75" Average Thickness (30.38 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS), Cold Adhesive Applied	12.95	
07 22 16 00-0260		Cold Adhesive Applied, 1/4" Slope, Tapered Expanded Polystyrene Board (EPS) <small>(07 22 16 00-0248)</small>		
07 22 16 00-0261	SF	2" Average Thickness (9 Average R-Value), 1/4" Slope, Tapered Expanded Polystyrene Board (EPS), Cold Adhesive Applied.....	4.15	
07 22 16 00-0262	SF	3" Average Thickness (13.5 Average R-Value), 1/4" Slope, Tapered Expanded Polystyrene Board (EPS), Cold Adhesive Applied.....	6.55	
07 22 16 00-0263	SF	4" Average Thickness (18 Average R-Value), 1/4" Slope, Tapered Expanded Polystyrene Board (EPS), Cold Adhesive Applied.....	7.46	
07 22 16 00-0264	SF	5" Average Thickness (22.5 Average R-Value), 1/4" Slope, Tapered Expanded Polystyrene Board (EPS), Cold Adhesive Applied.....	9.87	
07 22 16 00-0265	SF	6" Average Thickness (27 Average R-Value), 1/4" Slope, Tapered Expanded Polystyrene Board (EPS), Cold Adhesive Applied.....	10.77	
07 22 16 00-0266	SF	7" Average Thickness (31.5 Average R-Value), 1/4" Slope, Tapered Expanded Polystyrene Board (EPS), Cold Adhesive Applied.....	13.17	
07 22 16 00-0267		Cold Adhesive Applied, 1/2" Slope, Tapered Expanded Polystyrene Board (EPS) <small>(07 22 16 00-0248)</small>		
07 22 16 00-0268	SF	3.5" Average Thickness (15.75 Average R-Value), 1/2" Slope, Tapered Expanded Polystyrene Board (EPS), Cold Adhesive Applied.....	7.01	
07 22 16 00-0269	SF	5.5" Average Thickness (24.75 Average R-Value), 1/2" Slope, Tapered Expanded Polystyrene Board (EPS), Cold Adhesive Applied.....	10.32	
07 22 16 00-0270	SF	7.5" Average Thickness (33.75 Average R-Value), 1/2" Slope, Tapered Expanded Polystyrene Board (EPS), Cold Adhesive Applied.....	13.62	
07 22 16 00-0271	SF	9.5" Average Thickness (42.75 Average R-Value), 1/2" Slope, Tapered Expanded Polystyrene Board (EPS), Cold Adhesive Applied.....	17.38	
07 22 16 00-0272		Cold Adhesive Applied, Tapered Extruded Polystyrene Board (XEPS) <small>(07 22 16 00-0223)</small>		
		<i>Note: Includes polyurethane adhesive.</i>		
07 22 16 00-0273		Cold Adhesive Applied, 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS) <small>(07 22 16 00-0272)</small>		
07 22 16 00-0274	SF	2.25" Average Thickness (12.38 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS), Cold Adhesive Applied	4.92	
07 22 16 00-0275	SF	2.75" Average Thickness (15.125 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS), Cold Adhesive Applied	6.86	
07 22 16 00-0276	SF	3.25" Average Thickness (17.88 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS), Cold Adhesive Applied	7.43	
07 22 16 00-0277	SF	3.75" Average Thickness (20.63 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS), Cold Adhesive Applied	8.00	
07 22 16 00-0278	SF	4.25" Average Thickness (23.38 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS), Cold Adhesive Applied	8.57	
07 22 16 00-0279	SF	4.75" Average Thickness (26.13 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS), Cold Adhesive Applied	10.53	
07 22 16 00-0280	SF	5.25" Average Thickness (28.88 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS), Cold Adhesive Applied	11.10	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 22 16 00-0281 SF 5.75" Average Thickness (31.63 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS), Cold Adhesive Applied.....	11.67	
07 22 16 00-0282 SF 6.25" Average Thickness (34.38 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS), Cold Adhesive Applied.....	12.24	
07 22 16 00-0283 SF 6.75" Average Thickness (37.13 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS), Cold Adhesive Applied.....	14.19	
07 22 16 00-0284 Cold Adhesive Applied, 1/4" Slope, Tapered Extruded Polystyrene Board (XEPS) (07 22 16 00-0272)		
07 22 16 00-0285 SF 2" Average Thickness (11 Average R-Value), 1/4" Slope, Tapered Extruded Polystyrene Board (XEPS), Cold Adhesive Applied.....	4.63	
07 22 16 00-0286 SF 3" Average Thickness (16.5 Average R-Value), 1/4" Slope, Tapered Extruded Polystyrene Board (XEPS), Cold Adhesive Applied.....	7.15	
07 22 16 00-0287 SF 4" Average Thickness (22 Average R-Value), 1/4" Slope, Tapered Extruded Polystyrene Board (XEPS), Cold Adhesive Applied.....	8.29	
07 22 16 00-0288 SF 5" Average Thickness (27.5 Average R-Value), 1/4" Slope, Tapered Extruded Polystyrene Board (XEPS), Cold Adhesive Applied.....	10.81	
07 22 16 00-0289 SF 6" Average Thickness (33 Average R-Value), 1/4" Slope, Tapered Extruded Polystyrene Board (XEPS), Cold Adhesive Applied.....	11.95	
07 22 16 00-0290 SF 7" Average Thickness (38.5 Average R-Value), 1/4" Slope, Tapered Extruded Polystyrene Board (XEPS), Cold Adhesive Applied.....	14.47	
07 22 16 00-0291 Cold Adhesive Applied, 1/2" Slope, Tapered Extruded Polystyrene Board (XEPS) (07 22 16 00-0272)		
07 22 16 00-0292 SF 3.5" Average Thickness (19.25 Average R-Value), 1/2" Slope, Tapered Extruded Polystyrene Board (XEPS), Cold Adhesive Applied.....	7.72	
<i>For Mechanically Fastened To Concrete, Add</i>	1.67	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	2.10	
07 22 16 00-0293 SF 5.5" Average Thickness (30.25 Average R-Value), 1/2" Slope, Tapered Extruded Polystyrene Board (XEPS), Cold Adhesive Applied.....	11.39	
07 22 16 00-0294 SF 7.5" Average Thickness (41.25 Average R-Value), 1/2" Slope, Tapered Extruded Polystyrene Board (XEPS), Cold Adhesive Applied.....	15.04	
07 22 16 00-0295 SF 9.5" Average Thickness (52.25 Average R-Value), 1/2" Slope, Tapered Extruded Polystyrene Board (XEPS), Cold Adhesive Applied.....	18.71	
07 22 16 00-0296 Cold Adhesive Applied, Tapered Perlite Board (07 22 16 00-0223)		
Note: Includes polyurethane adhesive.		
07 22 16 00-0297 Cold Adhesive Applied, 1/8" Slope, Tapered Perlite Board (07 22 16 00-0296)		
07 22 16 00-0298 SF 2.25" Average Thickness (6.26 Average R-Value), 1/8" Slope, Tapered Perlite Board, Cold Adhesive Applied.....	7.25	
07 22 16 00-0299 SF 2.75" Average Thickness (7.65 Average R-Value), 1/8" Slope, Tapered Perlite Board, Cold Adhesive Applied.....	8.52	
07 22 16 00-0300 SF 3.25" Average Thickness (9.04 Average R-Value), 1/8" Slope, Tapered Perlite Board, Cold Adhesive Applied.....	9.76	
07 22 16 00-0301 SF 3.75" Average Thickness (10.43 Average R-Value), 1/8" Slope, Tapered Perlite Board, Cold Adhesive Applied.....	10.34	
07 22 16 00-0302 SF 4.25" Average Thickness (11.82 Average R-Value), 1/8" Slope, Tapered Perlite Board, Cold Adhesive Applied.....	11.57	
07 22 16 00-0303 SF 4.75" Average Thickness (13.21 Average R-Value), 1/8" Slope, Tapered Perlite Board, Cold Adhesive Applied.....	12.84	
07 22 16 00-0304 SF 5.25" Average Thickness (14.60 Average R-Value), 1/8" Slope, Tapered Perlite Board, Cold Adhesive Applied.....	14.07	
07 22 16 00-0305 SF 5.75" Average Thickness (15.99 Average R-Value), 1/8" Slope, Tapered Perlite Board, Cold Adhesive Applied.....	14.65	
07 22 16 00-0306 SF 6.25" Average Thickness (17.38 Average R-Value), 1/8" Slope, Tapered Perlite Board, Cold Adhesive Applied.....	15.88	
07 22 16 00-0307 SF 6.75" Average Thickness (18.77 Average R-Value), 1/8" Slope, Tapered Perlite Board, Cold Adhesive Applied.....	17.16	
07 22 16 00-0308 Cold Adhesive Applied, 1/4" Slope, Tapered Perlite Board (07 22 16 00-0296)		
07 22 16 00-0309 SF 2" Average Thickness (5.56 Average R-Value), 1/4" Slope, Tapered Perlite Board, Cold Adhesive Applied.....	6.63	
07 22 16 00-0310 SF 3" Average Thickness (8.34 Average R-Value), 1/4" Slope, Tapered Perlite Board, Cold Adhesive Applied.....	9.14	
07 22 16 00-0311 SF 4" Average Thickness (11.12 Average R-Value), 1/4" Slope, Tapered Perlite Board, Cold Adhesive Applied.....	10.95	
07 22 16 00-0312 SF 5" Average Thickness (13.9 Average R-Value), 1/4" Slope, Tapered Perlite Board, Cold Adhesive Applied.....	13.45	
07 22 16 00-0313 SF 6" Average Thickness (16.68 Average R-Value), 1/4" Slope, Tapered Perlite Board, Cold Adhesive Applied.....	15.27	
07 22 16 00-0314 SF 7" Average Thickness (19.46 Average R-Value), 1/4" Slope, Tapered Perlite Board, Cold Adhesive Applied.....	17.78	
07 22 16 00-0315 Cold Adhesive Applied, 1/2" Slope, Tapered Perlite Board (07 22 16 00-0296)		
07 22 16 00-0316 SF 3.5" Average Thickness (9.73 Average R-Value), 1/2" Slope, Tapered Perlite Board, Cold Adhesive Applied.....	10.37	
07 22 16 00-0317 SF 5.5" Average Thickness (15.29 Average R-Value), 1/2" Slope, Tapered Perlite Board, Cold Adhesive Applied.....	14.68	
07 22 16 00-0318 SF 7.5" Average Thickness (20.85 Average R-Value), 1/2" Slope, Tapered Perlite Board, Cold Adhesive Applied.....	19.01	
07 22 16 00-0319 SF 9.5" Average Thickness (26.41 Average R-Value), 1/2" Slope, Tapered Perlite Board, Cold Adhesive Applied.....	23.32	
07 22 16 00-0320 Hot-Mopped Rigid Board Tapered Roofing Insulation (07 22 16 00-0222)		
07 22 16 00-0321 Hot-Mopped, Tapered Polyisocyanurate Board (07 22 16 00-0320)		
07 22 16 00-0322 Hot-Mopped, 1/8" Slope, Tapered Polyisocyanurate Board (07 22 16 00-0321)		
07 22 16 00-0323 SF 2.25" Average Thickness (12.8 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Hot-Mopped.....	4.65	
<i>For 25 PSI Compressive Strength, Add</i>	0.30	
07 22 16 00-0324 SF 2.75" Average Thickness (15.7 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Hot-Mopped.....	6.55	
<i>For 25 PSI Compressive Strength, Add</i>	0.32	
07 22 16 00-0325 SF 3.25" Average Thickness (18.5 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Hot-Mopped.....	7.15	
<i>For 25 PSI Compressive Strength, Add</i>	0.38	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 22 16 00-0326 SF 3.75" Average Thickness (21.4 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Hot-Mopped <i>For 25 PSI Compressive Strength, Add</i>	7.44 0.44	
07 22 16 00-0327 SF 4.25" Average Thickness (24.2 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Hot-Mopped <i>For 25 PSI Compressive Strength, Add</i>	8.35 0.50	
07 22 16 00-0328 SF 4.75" Average Thickness (27.1 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Hot-Mopped <i>For 25 PSI Compressive Strength, Add</i>	10.08 0.53	
07 22 16 00-0329 SF 5.25" Average Thickness (30.0 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Hot-Mopped <i>For 25 PSI Compressive Strength, Add</i>	10.68 0.59	
07 22 16 00-0330 SF 5.75" Average Thickness (32.8 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Hot-Mopped <i>For 25 PSI Compressive Strength, Add</i>	11.28 0.65	
07 22 16 00-0331 SF 6.25" Average Thickness (35.6 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Hot-Mopped <i>For 25 PSI Compressive Strength, Add</i>	11.88 0.71	
07 22 16 00-0332 SF 6.75" Average Thickness (38.5 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Hot-Mopped <i>For 25 PSI Compressive Strength, Add</i>	13.60 0.74	
07 22 16 00-0333 Hot-Mopped, 1/4" Slope, Tapered Polyisocyanurate Board (07 22 16 00-0321)		
07 22 16 00-0334 SF 2" Average Thickness (11.4 Average R-Value), 1/4" Slope, Tapered Polyisocyanurate Board, Hot-Mopped <i>For 25 PSI Compressive Strength, Add</i>	4.52 0.27	
07 22 16 00-0335 SF 3" Average Thickness (17.1 Average R-Value), 1/4" Slope, Tapered Polyisocyanurate Board, Hot-Mopped <i>For 25 PSI Compressive Strength, Add</i>	6.85 0.35	
07 22 16 00-0336 SF 4" Average Thickness (22.8 Average R-Value), 1/4" Slope, Tapered Polyisocyanurate Board, Hot-Mopped <i>For 25 PSI Compressive Strength, Add</i>	8.05 0.47	
07 22 16 00-0337 SF 5" Average Thickness (28.5 Average R-Value), 1/4" Slope, Tapered Polyisocyanurate Board, Hot-Mopped <i>For 25 PSI Compressive Strength, Add</i>	10.38 0.56	
07 22 16 00-0338 SF 6" Average Thickness (34.2 Average R-Value), 1/4" Slope, Tapered Polyisocyanurate Board, Hot-Mopped <i>For 25 PSI Compressive Strength, Add</i>	11.58 0.68	
07 22 16 00-0339 SF 7" Average Thickness (39.9 Average R-Value), 1/4" Slope, Tapered Polyisocyanurate Board, Hot-Mopped <i>For 25 PSI Compressive Strength, Add</i>	13.90 0.77	
07 22 16 00-0340 Hot-Mopped, 1/2" Slope, Tapered Polyisocyanurate Board (07 22 16 00-0321)		
07 22 16 00-0341 SF 3.5" Average Thickness (20.0 Average R-Value), 1/2" Slope, Tapered Polyisocyanurate Board, Hot-Mopped <i>For 25 PSI Compressive Strength, Add</i>	7.45 0.41	
07 22 16 00-0342 SF 5.5" Average Thickness (31.4 Average R-Value), 1/2" Slope, Tapered Polyisocyanurate Board, Hot-Mopped <i>For 25 PSI Compressive Strength, Add</i>	10.98 0.62	
07 22 16 00-0343 SF 7.5" Average Thickness (42.8 Average R-Value), 1/2" Slope, Tapered Polyisocyanurate Board, Hot-Mopped <i>For 25 PSI Compressive Strength, Add</i>	14.50 0.83	
07 22 16 00-0344 SF 9.5" Average Thickness (54.2 Average R-Value), 1/2" Slope, Tapered Polyisocyanurate Board, Hot-Mopped <i>For 25 PSI Compressive Strength, Add</i>	18.03 1.03	
07 22 16 00-0345 Hot-Mopped, Tapered Perlite Board (07 22 16 00-0320)		
07 22 16 00-0346 Hot-Mopped, 1/8" Slope, Tapered Perlite Board (07 22 16 00-0345)		
07 22 16 00-0347 SF 2.25" Average Thickness (6.26 Average R-Value), 1/8" Slope, Tapered Perlite Board, Hot-Mopped.....	6.37	
07 22 16 00-0348 SF 2.75" Average Thickness (7.65 Average R-Value), 1/8" Slope, Tapered Perlite Board, Hot-Mopped.....	8.07	
07 22 16 00-0349 SF 3.25" Average Thickness (9.04 Average R-Value), 1/8" Slope, Tapered Perlite Board, Hot-Mopped.....	9.31	
07 22 16 00-0350 SF 3.75" Average Thickness (10.43 Average R-Value), 1/8" Slope, Tapered Perlite Board, Hot-Mopped.....	9.24	
07 22 16 00-0351 SF 4.25" Average Thickness (11.82 Average R-Value), 1/8" Slope, Tapered Perlite Board, Hot-Mopped.....	10.48	
07 22 16 00-0352 SF 4.75" Average Thickness (13.21 Average R-Value), 1/8" Slope, Tapered Perlite Board, Hot-Mopped.....	12.16	
07 22 16 00-0353 SF 5.25" Average Thickness (14.60 Average R-Value), 1/8" Slope, Tapered Perlite Board, Hot-Mopped.....	13.39	
07 22 16 00-0354 SF 5.75" Average Thickness (15.99 Average R-Value), 1/8" Slope, Tapered Perlite Board, Hot-Mopped.....	13.33	
07 22 16 00-0355 SF 6.25" Average Thickness (17.38 Average R-Value), 1/8" Slope, Tapered Perlite Board, Hot-Mopped.....	14.57	
07 22 16 00-0356 SF 6.75" Average Thickness (18.77 Average R-Value), 1/8" Slope, Tapered Perlite Board, Hot-Mopped.....	16.26	
07 22 16 00-0357 Hot-Mopped, 1/4" Slope, Tapered Perlite Board (07 22 16 00-0345)		
07 22 16 00-0358 SF 2" Average Thickness (5.56 Average R-Value), 1/4" Slope, Tapered Perlite Board, Hot-Mopped.....	5.75	
07 22 16 00-0359 SF 3" Average Thickness (8.34 Average R-Value), 1/4" Slope, Tapered Perlite Board, Hot-Mopped.....	8.69	
07 22 16 00-0360 SF 4" Average Thickness (11.12 Average R-Value), 1/4" Slope, Tapered Perlite Board, Hot-Mopped.....	9.86	
07 22 16 00-0361 SF 5" Average Thickness (13.9 Average R-Value), 1/4" Slope, Tapered Perlite Board, Hot-Mopped.....	12.78	
07 22 16 00-0362 SF 6" Average Thickness (16.68 Average R-Value), 1/4" Slope, Tapered Perlite Board, Hot-Mopped.....	13.95	
07 22 16 00-0363 SF 7" Average Thickness (19.46 Average R-Value), 1/4" Slope, Tapered Perlite Board, Hot-Mopped.....	16.88	
07 22 16 00-0364 Hot-Mopped, 1/2" Slope, Tapered Perlite Board (07 22 16 00-0345)		
07 22 16 00-0365 SF 3.5" Average Thickness (9.73 Average R-Value), 1/2" Slope, Tapered Perlite Board, Hot-Mopped.....	9.92	
07 22 16 00-0366 SF 5.5" Average Thickness (15.29 Average R-Value), 1/2" Slope, Tapered Perlite Board, Hot-Mopped.....	14.01	
07 22 16 00-0367 SF 7.5" Average Thickness (20.85 Average R-Value), 1/2" Slope, Tapered Perlite Board, Hot-Mopped.....	14.24	
07 22 16 00-0368 SF 9.5" Average Thickness (26.41 Average R-Value), 1/2" Slope, Tapered Perlite Board, Hot-Mopped.....	22.19	
07 22 16 00-0369 Mechanically Fastened Tapered Roofing Insulation (07 22 16 00-0222)		
Note: Mechanically fastened to wood or steel. Includes tapered board and filler board required to maintain slope starting at 1/2" minimum thickness. Excludes base layer of board, if required. Average thickness and average R-value of tapered system excludes thickness and R-value of base layer insulation and/or coverboard.		
07 22 16 00-0370 Mechanically Fastened, Tapered Polyisocyanurate Board (07 22 16 00-0369)		
Note: Mechanically fastened to wood or steel.		
07 22 16 00-0371 Mechanically Fastened, 1/8" Slope, Tapered Polyisocyanurate Board (07 22 16 00-0370)		

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 22 16 00-0372	SF		2.25" Average Thickness (12.8 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Mechanically Fastened.....	4.94	
			<i>For 25 PSI Compressive Strength, Add</i>	0.33	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.62	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.98	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.90	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.20	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.56	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.34	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.30	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.84	
07 22 16 00-0373	SF		2.75" Average Thickness (15.7 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Mechanically Fastened.....	6.33	
			<i>For 25 PSI Compressive Strength, Add</i>	0.33	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.67	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	2.04	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.02	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.34	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.71	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.53	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.50	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	4.06	
07 22 16 00-0374	SF		3.25" Average Thickness (18.5 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Mechanically Fastened.....	6.93	
			<i>For 25 PSI Compressive Strength, Add</i>	0.39	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.67	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	2.10	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.02	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.34	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.76	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.53	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.50	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	4.14	
07 22 16 00-0375	SF		3.75" Average Thickness (21.4 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Mechanically Fastened.....	7.68	
			<i>For 25 PSI Compressive Strength, Add</i>	0.47	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.71	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	2.02	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.21	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.53	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.84	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.81	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.80	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	4.27	
07 22 16 00-0376	SF		4.25" Average Thickness (24.2 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Mechanically Fastened.....	8.28	
			<i>For 25 PSI Compressive Strength, Add</i>	0.53	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.71	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	2.09	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.21	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.53	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.91	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.81	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.80	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	4.37	
07 22 16 00-0377	SF		4.75" Average Thickness (27.1 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Mechanically Fastened.....	9.78	
			<i>For 25 PSI Compressive Strength, Add</i>	0.55	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.76	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	2.06	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.43	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.76	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	3.07	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	2.15	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	4.15	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	4.60	
07 22 16 00-0378	SF		5.25" Average Thickness (30.0 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Mechanically Fastened.....	10.38	
			<i>For 25 PSI Compressive Strength, Add</i>	0.61	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.76	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	2.06	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.43	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.76	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	3.07	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	2.15	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	4.15	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	4.60	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 22 16 00-0379 SF 5.75" Average Thickness (32.8 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Mechanically Fastened	11.26	
<i>For 25 PSI Compressive Strength, Add</i>	0.69	
<i>For Mechanically Fastened To Concrete, Add</i>	1.81	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	2.03	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.76	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	3.10	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	3.32	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	2.63	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	4.64	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	4.97	
07 22 16 00-0380 SF 6.25" Average Thickness (35.6 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Mechanically Fastened	11.86	
<i>For 25 PSI Compressive Strength, Add</i>	0.75	
<i>For Mechanically Fastened To Concrete, Add</i>	1.81	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	2.03	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.76	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	3.10	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	3.32	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	2.63	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	4.64	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	4.97	
07 22 16 00-0381 SF 6.75" Average Thickness (38.5 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board, Mechanically Fastened	13.45	
<i>For 25 PSI Compressive Strength, Add</i>	0.78	
<i>For Mechanically Fastened To Concrete, Add</i>	1.81	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	2.13	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	2.04	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	3.38	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	3.70	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	3.05	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	5.06	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	5.54	
07 22 16 00-0382 Mechanically Fastened, 1/4" Slope, Tapered Polyisocyanurate Board <small>(07 22 16 00-0370)</small>		
07 22 16 00-0383 SF 2" Average Thickness (11.4 Average R-Value), 1/4" Slope, Tapered Polyisocyanurate Board, Mechanically Fastened	4.64	
<i>For 25 PSI Compressive Strength, Add</i>	0.30	
<i>For Mechanically Fastened To Concrete, Add</i>	1.62	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.98	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.90	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.20	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.56	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.34	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.30	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.84	
07 22 16 00-0384 SF 3" Average Thickness (17.1 Average R-Value), 1/4" Slope, Tapered Polyisocyanurate Board, Mechanically Fastened	6.63	
<i>For 25 PSI Compressive Strength, Add</i>	0.36	
<i>For Mechanically Fastened To Concrete, Add</i>	1.67	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	2.04	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.02	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.34	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.71	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.53	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.50	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	4.06	
07 22 16 00-0385 SF 4" Average Thickness (22.8 Average R-Value), 1/4" Slope, Tapered Polyisocyanurate Board, Mechanically Fastened	7.98	
<i>For 25 PSI Compressive Strength, Add</i>	0.50	
<i>For Mechanically Fastened To Concrete, Add</i>	1.71	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	2.02	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.21	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.53	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.84	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.81	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.80	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	4.27	
07 22 16 00-0386 SF 5" Average Thickness (28.5 Average R-Value), 1/4" Slope, Tapered Polyisocyanurate Board, Mechanically Fastened	10.08	
<i>For 25 PSI Compressive Strength, Add</i>	0.58	
<i>For Mechanically Fastened To Concrete, Add</i>	1.76	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	2.06	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.43	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.76	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	3.07	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	2.15	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	4.15	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	4.60	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 22 16 00-0387 SF 6" Average Thickness (34.2 Average R-Value), 1/4" Slope, Tapered Polyisocyanurate Board, Mechanically Fastened.....	11.56	
For 25 PSI Compressive Strength, Add	0.72	
For Mechanically Fastened To Concrete, Add	1.81	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	2.03	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	1.76	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	3.10	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add	3.32	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	2.63	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	4.64	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add	4.97	
07 22 16 00-0388 SF 7" Average Thickness (39.9 Average R-Value), 1/4" Slope, Tapered Polyisocyanurate Board, Mechanically Fastened.....	13.75	
For 25 PSI Compressive Strength, Add	0.81	
For Mechanically Fastened To Concrete, Add	1.81	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	2.13	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	2.04	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	3.38	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add	3.70	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	3.05	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	5.06	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add	5.54	
07 22 16 00-0389 Mechanically Fastened, 1/2" Slope, Tapered Polyisocyanurate Board (07 22 16 00-0370)		
07 22 16 00-0390 SF 3.5" Average Thickness (20.0 Average R-Value), 1/2" Slope, Tapered Polyisocyanurate Board, Mechanically Fastened.....	7.23	
For 25 PSI Compressive Strength, Add	0.42	
For Mechanically Fastened To Concrete, Add	1.67	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	2.10	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	1.02	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.34	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add	2.76	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.53	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.50	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add	4.14	
07 22 16 00-0391 SF 3.1" Average Thickness (31.4 Average R-Value), 1/2" Slope, Tapered Polyisocyanurate Board, Mechanically Fastened.....	10.30	
For 25 PSI Compressive Strength, Add	0.60	
For Mechanically Fastened To Concrete, Add	1.76	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	2.06	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	1.43	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.76	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add	3.07	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	2.15	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	4.15	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add	4.60	
07 22 16 00-0392 SF 7.5" Average Thickness (42.8 Average R-Value), 1/2" Slope, Tapered Polyisocyanurate Board, Mechanically Fastened.....	14.35	
For 25 PSI Compressive Strength, Add	0.87	
For Mechanically Fastened To Concrete, Add	1.81	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	2.13	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	2.04	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	3.38	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add	3.70	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	3.05	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	5.06	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add	5.54	
07 22 16 00-0393 SF 9.5" Average Thickness (54.2 Average R-Value), 1/2" Slope, Tapered Polyisocyanurate Board, Mechanically Fastened.....	18.24	
For 25 PSI Compressive Strength, Add	1.12	
For Mechanically Fastened To Concrete, Add	2.30	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	2.85	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	4.65	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	4.29	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	6.98	
07 22 16 00-0394 Mechanically Fastened, Tapered Expanded Polystyrene Board (EPS) (07 22 16 00-0369)		
Note: Mechanically fastened to wood or steel.		
07 22 16 00-0395 Mechanically Fastened, 1/8" Slope, Tapered Expanded Polystyrene Board (EPS) (07 22 16 00-0394)		
07 22 16 00-0396 SF 2.25" Average Thickness (10.13 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS), Mechanically Fastened.....	4.26	
For Mechanically Fastened To Concrete, Add	1.62	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.98	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.90	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.20	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add	2.56	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.34	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.30	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add	3.84	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 22 16 00-0397 SF 2.75" Average Thickness (12.38 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS), Mechanically Fastened.....	5.67	
<i>For Mechanically Fastened To Concrete, Add</i>	1.67	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	2.04	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.02	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.34	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.71	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.53	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.50	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	4.06	
07 22 16 00-0398 SF 3.25" Average Thickness (14.63 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS), Mechanically Fastened.....	6.12	
<i>For Mechanically Fastened To Concrete, Add</i>	1.67	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	2.10	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.02	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.34	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.76	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.53	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.50	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	4.14	
07 22 16 00-0399 SF 3.75" Average Thickness (16.88 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS), Mechanically Fastened.....	6.72	
<i>For Mechanically Fastened To Concrete, Add</i>	1.71	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	2.02	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.21	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.53	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.84	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.81	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.80	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	4.27	
07 22 16 00-0400 SF 4.25" Average Thickness (19.13 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS), Mechanically Fastened.....	7.17	
<i>For Mechanically Fastened To Concrete, Add</i>	1.71	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	2.09	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.21	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.53	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.91	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.81	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.80	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	4.37	
07 22 16 00-0401 SF 4.75" Average Thickness (21.38 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS), Mechanically Fastened.....	8.67	
<i>For Mechanically Fastened To Concrete, Add</i>	1.76	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	2.06	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.43	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.76	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	3.07	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	2.15	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	4.15	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	4.60	
07 22 16 00-0402 SF 5.25" Average Thickness (23.63 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS), Mechanically Fastened.....	9.12	
<i>For Mechanically Fastened To Concrete, Add</i>	1.76	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	2.06	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.43	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.76	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	3.07	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	2.15	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	4.15	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	4.60	
07 22 16 00-0403 SF 5.75" Average Thickness (25.88 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS), Mechanically Fastened.....	9.85	
<i>For Mechanically Fastened To Concrete, Add</i>	1.81	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	2.03	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.76	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	3.10	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	3.32	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	2.63	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	4.64	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	4.97	
07 22 16 00-0404 SF 6.25" Average Thickness (28.13 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS), Mechanically Fastened.....	10.30	
<i>For Mechanically Fastened To Concrete, Add</i>	1.81	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	2.03	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.76	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	3.10	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	3.32	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	2.63	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	4.64	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	4.97	

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

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 22 16 00-0405	SF		6.75" Average Thickness (30.38 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS), Mechanically Fastened.....	11.90	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.81	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	2.13	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	2.04	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	3.38	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	3.70	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	3.05	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	5.06	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	5.54	
07 22 16 00-0406			Mechanically Fastened, 1/4" Slope, Tapered Expanded Polystyrene Board (EPS) (07 22 16 00-0394)		
07 22 16 00-0407	SF		2" Average Thickness (9 Average R-Value), 1/4" Slope, Tapered Expanded Polystyrene Board (EPS), Mechanically Fastened.....	4.04	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.62	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.98	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.90	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.20	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.56	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.34	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.30	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.84	
07 22 16 00-0408	SF		3" Average Thickness (13.5 Average R-Value), 1/4" Slope, Tapered Expanded Polystyrene Board (EPS), Mechanically Fastened.....	5.89	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.67	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	2.04	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.02	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.34	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.71	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.53	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.50	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	4.06	
07 22 16 00-0409	SF		4" Average Thickness (18 Average R-Value), 1/4" Slope, Tapered Expanded Polystyrene Board (EPS), Mechanically Fastened.....	6.94	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.71	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	2.02	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.21	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.53	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.84	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.81	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.80	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	4.27	
07 22 16 00-0410	SF		5" Average Thickness (22.5 Average R-Value), 1/4" Slope, Tapered Expanded Polystyrene Board (EPS), Mechanically Fastened.....	8.89	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.76	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	2.06	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.43	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.76	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	3.07	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	2.15	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	4.15	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	4.60	
07 22 16 00-0411	SF		6" Average Thickness (27 Average R-Value), 1/4" Slope, Tapered Expanded Polystyrene Board (EPS), Mechanically Fastened.....	10.08	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.81	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	2.03	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.76	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	3.10	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	3.32	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	2.63	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	4.64	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	4.97	
07 22 16 00-0412	SF		7" Average Thickness (31.5 Average R-Value), 1/4" Slope, Tapered Expanded Polystyrene Board (EPS), Mechanically Fastened.....	12.12	
			<i>For Mechanically Fastened To Concrete, Add</i>	1.81	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	2.13	
			<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	2.04	
			<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	3.38	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	3.70	
			<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	3.05	
			<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	5.06	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	5.54	

07 22 16 00-0413 Mechanically Fastened, 1/2" Slope, Tapered Expanded Polystyrene Board (EPS) (07 22 16 00-0394)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 22 16 00-0414 SF 3.5" Average Thickness (15.75 Average R-Value), 1/2" Slope, Tapered Expanded Polystyrene Board (EPS), Mechanically Fastened.....	6.34	
<i>For Mechanically Fastened To Concrete, Add</i>	1.67	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	2.10	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.02	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.34	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.76	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.53	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.50	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	4.14	
07 22 16 00-0415 SF 5.5" Average Thickness (24.75 Average R-Value), 1/2" Slope, Tapered Expanded Polystyrene Board (EPS), Mechanically Fastened.....	9.34	
<i>For Mechanically Fastened To Concrete, Add</i>	1.76	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	2.06	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.43	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.76	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	3.07	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	2.15	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	4.15	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	4.60	
07 22 16 00-0416 SF 7.5" Average Thickness (33.75 Average R-Value), 1/2" Slope, Tapered Expanded Polystyrene Board (EPS), Mechanically Fastened.....	12.57	
<i>For Mechanically Fastened To Concrete, Add</i>	1.81	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	2.13	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	2.04	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	3.38	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	3.70	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	3.05	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	5.06	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	5.54	
07 22 16 00-0417 SF 9.5" Average Thickness (42.75 Average R-Value), 1/2" Slope, Tapered Expanded Polystyrene Board (EPS), Mechanically Fastened.....	16.47	
<i>For Mechanically Fastened To Concrete, Add</i>	2.30	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	2.85	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	4.65	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	4.29	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	6.98	
07 22 16 00-0418 Mechanically Fastened, Tapered Extruded Polystyrene Board (XEPS) <small>(07 22 16 00-0369)</small>		
Note: Mechanically fastened to wood or steel.		
07 22 16 00-0419 Mechanically Fastened, 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS) <small>(07 22 16 00-0418)</small>		
07 22 16 00-0420 SF 2.25" Average Thickness (12.38 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS), Mechanically Fastened.....	4.80	
<i>For Mechanically Fastened To Concrete, Add</i>	1.62	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.98	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.90	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.20	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.56	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.34	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.30	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	3.84	
07 22 16 00-0421 SF 2.75" Average Thickness (15.125 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS), Mechanically Fastened.....	6.20	
<i>For Mechanically Fastened To Concrete, Add</i>	1.67	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	2.04	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.02	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.34	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.71	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.53	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.50	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	4.06	
07 22 16 00-0422 SF 3.25" Average Thickness (17.88 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS), Mechanically Fastened.....	8.10	
<i>For Mechanically Fastened To Concrete, Add</i>	1.67	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	2.10	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.02	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.34	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.76	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.53	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.50	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	4.14	
07 22 16 00-0423 SF 3.75" Average Thickness (20.63 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS), Mechanically Fastened.....	7.49	
<i>For Mechanically Fastened To Concrete, Add</i>	1.71	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	2.02	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.21	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.53	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.84	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.81	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.80	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	4.27	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 22 16 00-0424 SF 4.25" Average Thickness (23.38 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS), Mechanically Fastened.....	8.06	
For Mechanically Fastened To Concrete, Add	1.71	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	2.09	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	1.21	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.53	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add	2.91	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.81	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.80	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add	4.37	
07 22 16 00-0425 SF 4.75" Average Thickness (26.13 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS), Mechanically Fastened.....	9.56	
For Mechanically Fastened To Concrete, Add	1.76	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	2.06	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	1.43	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.76	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add	3.07	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	2.15	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	4.15	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add	4.60	
07 22 16 00-0426 SF 5.25" Average Thickness (28.88 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS), Mechanically Fastened.....	10.13	
For Mechanically Fastened To Concrete, Add	1.76	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	2.06	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	1.43	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.76	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add	3.07	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	2.15	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	4.15	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add	4.60	
07 22 16 00-0427 SF 5.75" Average Thickness (31.63 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS), Mechanically Fastened.....	10.98	
For Mechanically Fastened To Concrete, Add	1.81	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	2.03	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	1.76	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	3.10	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add	3.32	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	2.63	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	4.64	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add	4.97	
07 22 16 00-0428 SF 6.25" Average Thickness (34.38 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS), Mechanically Fastened.....	11.55	
For Mechanically Fastened To Concrete, Add	1.81	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	2.03	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	1.76	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	3.10	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add	3.32	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	2.63	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	4.64	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add	4.97	
07 22 16 00-0429 SF 6.75" Average Thickness (37.13 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS), Mechanically Fastened.....	13.14	
For Mechanically Fastened To Concrete, Add	1.81	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	2.13	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	2.04	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	3.38	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add	3.70	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	3.05	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	5.06	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add	5.54	
07 22 16 00-0430 Mechanically Fastened, 1/4" Slope, Tapered Extruded Polystyrene Board (XEPS) (07 22 16 00-0418)		
07 22 16 00-0431 SF 2" Average Thickness (11 Average R-Value), 1/4" Slope, Tapered Extruded Polystyrene Board (XEPS), Mechanically Fastened.....	4.52	
For Mechanically Fastened To Concrete, Add	1.62	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.98	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.90	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.20	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add	2.56	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.34	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.30	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add	3.84	
07 22 16 00-0432 SF 3" Average Thickness (16.5 Average R-Value), 1/4" Slope, Tapered Extruded Polystyrene Board (XEPS), Mechanically Fastened.....	6.48	
For Mechanically Fastened To Concrete, Add	1.67	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	2.04	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	1.02	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.34	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add	2.71	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.53	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.50	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add	4.06	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 22 16 00-0433 SF 4" Average Thickness (22 Average R-Value), 1/4" Slope, Tapered Extruded Polystyrene Board (XEPS), Mechanically Fastened.....	7.77	
<i>For Mechanically Fastened To Concrete, Add</i>	1.71	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	2.02	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.21	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.53	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.84	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.81	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.80	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	4.27	
07 22 16 00-0434 SF 5" Average Thickness (27.5 Average R-Value), 1/4" Slope, Tapered Extruded Polystyrene Board (XEPS), Mechanically Fastened.....	9.84	
<i>For Mechanically Fastened To Concrete, Add</i>	1.76	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	2.06	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.43	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.76	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	3.07	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	2.15	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	4.15	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	4.60	
07 22 16 00-0435 SF 6" Average Thickness (33 Average R-Value), 1/4" Slope, Tapered Extruded Polystyrene Board (XEPS), Mechanically Fastened.....	11.27	
<i>For Mechanically Fastened To Concrete, Add</i>	1.81	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	2.03	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.76	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	3.10	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	3.32	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	2.63	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	4.64	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	4.97	
07 22 16 00-0436 SF 7" Average Thickness (38.5 Average R-Value), 1/4" Slope, Tapered Extruded Polystyrene Board (XEPS), Mechanically Fastened.....	13.42	
<i>For Mechanically Fastened To Concrete, Add</i>	1.81	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	2.13	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	2.04	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	3.38	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	3.70	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	3.05	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	5.06	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	5.54	
07 22 16 00-0437 Mechanically Fastened, 1/2" Slope, Tapered Extruded Polystyrene Board (XEPS) <small>(07 22 16 00-0418)</small>		
07 22 16 00-0438 SF 3.5" Average Thickness (19.25 Average R-Value), 1/2" Slope, Tapered Extruded Polystyrene Board (XEPS), Mechanically Fastened.....	7.05	
<i>For Mechanically Fastened To Concrete, Add</i>	1.67	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	2.10	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.02	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.34	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	2.76	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.53	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.50	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	4.14	
07 22 16 00-0439 SF 5.5" Average Thickness (30.25 Average R-Value), 1/2" Slope, Tapered Extruded Polystyrene Board (XEPS), Mechanically Fastened.....	10.41	
<i>For Mechanically Fastened To Concrete, Add</i>	1.76	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	2.06	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.43	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.76	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	3.07	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	2.15	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	4.15	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	4.60	
07 22 16 00-0440 SF 7.5" Average Thickness (41.25 Average R-Value), 1/2" Slope, Tapered Extruded Polystyrene Board (XEPS), Mechanically Fastened.....	13.99	
<i>For Mechanically Fastened To Concrete, Add</i>	1.81	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	2.13	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	2.04	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	3.38	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	3.70	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	3.05	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	5.06	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	5.54	
07 22 16 00-0441 SF 9.5" Average Thickness (52.25 Average R-Value), 1/2" Slope, Tapered Extruded Polystyrene Board (XEPS), Mechanically Fastened.....	17.55	
<i>For Mechanically Fastened To Concrete, Add</i>	2.30	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	2.85	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	4.65	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	4.29	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	6.98	
07 22 16 00-0442 Mechanically Fastened, Tapered Perlite Board <small>(07 22 16 00-0369)</small>		
Note: Mechanically fastened to wood or steel.		

07 Thermal And Moisture Protection**07 20 Thermal Protection****07 22 Roof and Deck Insulation**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 22 16 00-0443			Mechanically Fastened, 1/8" Slope, Tapered Perlite Board <small>(07 22 16 00-0442)</small>		
07 22 16 00-0444	SF		2.25" Average Thickness (6.26 Average R-Value), 1/8" Slope, Tapered Perlite Board, Mechanically Fastened.....	6.49	
			For Mechanically Fastened To Concrete, Add	1.62	
			For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.98	
			For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.90	
			For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.20	
			For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add	2.56	
			For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.34	
			For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.30	
			For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add	3.84	
07 22 16 00-0445	SF		2.75" Average Thickness (7.65 Average R-Value), 1/8" Slope, Tapered Perlite Board, Mechanically Fastened.....	7.86	
			For Mechanically Fastened To Concrete, Add	1.67	
			For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	2.04	
			For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	1.02	
			For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.34	
			For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add	2.71	
			For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.53	
			For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.50	
			For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add	4.06	
07 22 16 00-0446	SF		3.25" Average Thickness (9.04 Average R-Value), 1/8" Slope, Tapered Perlite Board, Mechanically Fastened.....	9.09	
			For Mechanically Fastened To Concrete, Add	1.67	
			For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	2.10	
			For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	1.02	
			For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.34	
			For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add	2.76	
			For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.53	
			For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.50	
			For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add	4.14	
07 22 16 00-0447	SF		3.75" Average Thickness (10.43 Average R-Value), 1/8" Slope, Tapered Perlite Board, Mechanically Fastened.....	9.18	
			For Mechanically Fastened To Concrete, Add	1.71	
			For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	2.02	
			For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	1.21	
			For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.53	
			For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add	2.84	
			For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.81	
			For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.80	
			For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add	4.27	
07 22 16 00-0448	SF		4.25" Average Thickness (11.82 Average R-Value), 1/8" Slope, Tapered Perlite Board, Mechanically Fastened.....	10.41	
			For Mechanically Fastened To Concrete, Add	1.71	
			For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	2.09	
			For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	1.21	
			For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.53	
			For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add	2.91	
			For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.81	
			For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.80	
			For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add	4.37	
07 22 16 00-0449	SF		4.75" Average Thickness (13.21 Average R-Value), 1/8" Slope, Tapered Perlite Board, Mechanically Fastened.....	11.86	
			For Mechanically Fastened To Concrete, Add	1.76	
			For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	2.06	
			For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	1.43	
			For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.76	
			For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add	3.07	
			For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	2.15	
			For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	4.15	
			For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add	4.60	
07 22 16 00-0450	SF		5.25" Average Thickness (14.60 Average R-Value), 1/8" Slope, Tapered Perlite Board, Mechanically Fastened.....	13.10	
			For Mechanically Fastened To Concrete, Add	1.76	
			For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	2.06	
			For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	1.43	
			For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.76	
			For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add	3.07	
			For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	2.15	
			For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	4.15	
			For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add	4.60	
07 22 16 00-0451	SF		5.75" Average Thickness (15.99 Average R-Value), 1/8" Slope, Tapered Perlite Board, Mechanically Fastened.....	13.32	
			For Mechanically Fastened To Concrete, Add	1.81	
			For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	2.03	
			For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	1.76	
			For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	3.10	
			For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add	3.32	
			For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	2.63	
			For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	4.64	
			For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add	4.97	
07 22 16 00-0452	SF		6.25" Average Thickness (17.38 Average R-Value), 1/8" Slope, Tapered Perlite Board, Mechanically Fastened.....	14.55	
			For Mechanically Fastened To Concrete, Add	1.81	
			For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	2.03	
			For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	1.76	
			For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	3.10	
			For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add	3.32	
			For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	2.63	
			For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	4.64	
			For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add	4.97	



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

07

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 22 16 00-0453 SF 6.75" Average Thickness (18.77 Average R-Value), 1/8" Slope, Tapered Perlite Board, Mechanically Fastened.....	16.11	
For Mechanically Fastened To Concrete, Add	1.81	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	2.13	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	2.04	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	3.38	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add	3.70	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	3.05	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	5.06	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add	5.54	
07 22 16 00-0454 Mechanically Fastened, 1/4" Slope, Tapered Perlite Board <small>(07 22 16 00-0442)</small>		
07 22 16 00-0455 SF 2" Average Thickness (5.56 Average R-Value), 1/4" Slope, Tapered Perlite Board, Mechanically Fastened.....	5.88	
For Mechanically Fastened To Concrete, Add	1.62	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.98	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	0.90	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.20	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add	2.56	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.34	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.30	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add	3.84	
07 22 16 00-0456 SF 3" Average Thickness (8.34 Average R-Value), 1/4" Slope, Tapered Perlite Board, Mechanically Fastened.....	8.48	
For Mechanically Fastened To Concrete, Add	1.67	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	2.04	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	1.02	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.34	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add	2.71	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.53	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.50	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add	4.06	
07 22 16 00-0457 SF 4" Average Thickness (11.12 Average R-Value), 1/4" Slope, Tapered Perlite Board, Mechanically Fastened.....	9.80	
For Mechanically Fastened To Concrete, Add	1.71	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	2.02	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	1.21	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.53	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add	2.84	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.81	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.80	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add	4.27	
07 22 16 00-0458 SF 5" Average Thickness (13.9 Average R-Value), 1/4" Slope, Tapered Perlite Board, Mechanically Fastened.....	12.48	
For Mechanically Fastened To Concrete, Add	1.76	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	2.06	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	1.43	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.76	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add	3.07	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	2.15	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	4.15	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add	4.60	
07 22 16 00-0459 SF 6" Average Thickness (16.68 Average R-Value), 1/4" Slope, Tapered Perlite Board, Mechanically Fastened.....	13.93	
For Mechanically Fastened To Concrete, Add	1.81	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	2.03	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	1.76	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	3.10	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add	3.32	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	2.63	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	4.64	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add	4.97	
07 22 16 00-0460 SF 7" Average Thickness (19.46 Average R-Value), 1/4" Slope, Tapered Perlite Board, Mechanically Fastened.....	16.73	
For Mechanically Fastened To Concrete, Add	1.81	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	2.13	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	2.04	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	3.38	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add	3.70	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	3.05	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	5.06	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add	5.54	
07 22 16 00-0461 Mechanically Fastened, 1/2" Slope, Tapered Perlite Board <small>(07 22 16 00-0442)</small>		
07 22 16 00-0462 SF 3.5" Average Thickness (9.73 Average R-Value), 1/2" Slope, Tapered Perlite Board, Mechanically Fastened.....	9.71	
For Mechanically Fastened To Concrete, Add	1.67	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	2.10	
For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add	1.02	
For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add	2.34	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add	2.76	
For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add	1.53	
For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add	3.50	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add	4.14	

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

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
------------------------------	---------------------------	-------------------------

07 22 16 00-0463	SF	5.5" Average Thickness (15.29 Average R-Value), 1/2" Slope, Tapered Perlite Board, Mechanically Fastened.....	13.71	
		<i>For Mechanically Fastened To Concrete, Add</i>	1.76	
		<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	2.06	
		<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	1.43	
		<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.76	
		<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	3.07	
		<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	2.15	
		<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	4.15	
		<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	4.60	
07 22 16 00-0464	SF	7.5" Average Thickness (20.85 Average R-Value), 1/2" Slope, Tapered Perlite Board, Mechanically Fastened.....	17.96	
		<i>For Mechanically Fastened To Concrete, Add</i>	1.81	
		<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	2.13	
		<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	2.04	
		<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	3.38	
		<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	3.70	
		<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	3.05	
		<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	5.06	
		<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	5.54	
07 22 16 00-0465	SF	9.5" Average Thickness (26.41 Average R-Value), 1/2" Slope, Tapered Perlite Board, Mechanically Fastened.....	22.41	
		<i>For Mechanically Fastened To Concrete, Add</i>	2.30	
		<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	2.85	
		<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	4.65	
		<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >90 To 120 MPH Wind, Add</i>	3.70	
		<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	4.29	
		<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	6.98	
		<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, >120 To 135 MPH Wind, Add</i>	5.54	

07 22 16 00-0466 Demolish Rigid Board Roofing Insulation (07 22 16)

Note: Includes removing any combination of roofing insulation systems and/or recovery board. Includes removal of any basic roof accessories and any sheet metals; except special existing conditions (mechanical equipment piping, electrical, ducts, etc.).

07 22 16 00-0467	SF	Demolish Up To 1/2" Average Thickness, Rigid Board Roofing Insulation	0.62	
07 22 16 00-0468	SF	Demolish >1/2" To 1" Average Thickness, Rigid Board Roofing Insulation	0.64	
07 22 16 00-0469	SF	Demolish >1" To 2" Average Thickness, Rigid Board Roofing Insulation	0.65	
07 22 16 00-0470	SF	Demolish >2" To 3" Average Thickness, Rigid Board Roofing Insulation	0.68	
07 22 16 00-0471	SF	Demolish >3" To 4" Average Thickness, Rigid Board Roofing Insulation	0.69	
07 22 16 00-0472	SF	Demolish >4" To 5" Average Thickness, Rigid Board Roofing Insulation	0.71	
07 22 16 00-0473	SF	Demolish >5" To 6" Average Thickness, Rigid Board Roofing Insulation	0.72	
07 22 16 00-0474	SF	Demolish >6" To 7" Average Thickness, Rigid Board Roofing Insulation	0.74	
07 22 16 00-0475	SF	Demolish >7" To 8" Average Thickness, Rigid Board Roofing Insulation	0.76	
07 22 16 00-0476	SF	Demolish >8" To 9" Average Thickness, Rigid Board Roofing Insulation	0.78	
07 22 16 00-0477	SF	Demolish >9" To 10" Average Thickness, Rigid Board Roofing Insulation	0.80	
07 22 16 00-0478	SF	Demolish >10" To 11" Average Thickness, Rigid Board Roofing Insulation.....	0.81	
07 22 16 00-0479	SF	Demolish >11" To 12" Average Thickness, Rigid Board Roofing Insulation.....	0.83	

07 24 Exterior Insulation and Finish Systems (07 20)**07 24 13 Polymer-Based Exterior Insulation and Finish System (07 24)****07 24 13 00-0001 Exterior Insulation Finishing System (EIFS) (07 24 13)****07 24 13 00-0002 Insulation For Exterior Insulation Finishing Systems (EIFS) (07 24 13 00-0001)**

07 24 13 00-0003	SF	1" Thick, R3.85, Molded Expanded Polystyrene, Foam Board Insulation For Exterior Insulation Finishing Systems (EIFS), Adhesive Applied.....	4.20	
		<i>For Up To 100, Add</i>	0.88	
		<i>For >100 To 500, Add</i>	0.44	
		<i>For >5,000, Deduct</i>	-0.18	
		<i>For Adhesive And Mechanically Fastened To Wood Or Steel, Add</i>	1.51	
		<i>For Adhesive And Mechanically Fastened To Concrete Or Masonry, Add</i>	2.26	
07 24 13 00-0004	SF	1-1/2" Thick, R5.78, Molded Expanded Polystyrene, Foam Board Insulation For Exterior Insulation Finishing Systems (EIFS), Adhesive Applied.....	4.77	
		<i>For Up To 100, Add</i>	0.90	
		<i>For >100 To 500, Add</i>	0.45	
		<i>For >5,000, Deduct</i>	-0.18	
		<i>For Adhesive And Mechanically Fastened To Wood Or Steel, Add</i>	1.54	
		<i>For Adhesive And Mechanically Fastened To Concrete Or Masonry, Add</i>	2.27	
07 24 13 00-0005	SF	2" Thick, R7.70, Molded Expanded Polystyrene, Foam Board Insulation For Exterior Insulation Finishing Systems (EIFS), Adhesive Applied.....	5.32	
		<i>For Up To 100, Add</i>	0.91	
		<i>For >100 To 500, Add</i>	0.45	
		<i>For >5,000, Deduct</i>	-0.18	
		<i>For Adhesive And Mechanically Fastened To Wood Or Steel, Add</i>	1.72	
		<i>For Adhesive And Mechanically Fastened To Concrete Or Masonry, Add</i>	2.42	
07 24 13 00-0006	SF	2-1/2" Thick, R9.63, Molded Expanded Polystyrene, Foam Board Insulation For Exterior Insulation Finishing Systems (EIFS), Adhesive Applied.....	5.89	
		<i>For Up To 100, Add</i>	0.92	
		<i>For >100 To 500, Add</i>	0.46	
		<i>For >5,000, Deduct</i>	-0.18	
		<i>For Adhesive And Mechanically Fastened To Wood Or Steel, Add</i>	1.80	
		<i>For Adhesive And Mechanically Fastened To Concrete Or Masonry, Add</i>	2.54	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 24 13 00-0007 SF 3" Thick, R11.55, Molded Expanded Polystyrene, Foam Board Insulation For Exterior Insulation Finishing Systems (EIFS), Adhesive Applied.....	6.44	
<i>For Up To 100, Add</i>	0.93	
<i>For >100 To 500, Add</i>	0.47	
<i>For >5,000, Deduct</i>	-0.19	
<i>For Adhesive And Mechanically Fastened To Wood Or Steel, Add</i>	1.80	
<i>For Adhesive And Mechanically Fastened To Concrete Or Masonry, Add</i>	2.54	
07 24 13 00-0008 SF 4" Thick, R15.40, Molded Expanded Polystyrene, Foam Board Insulation For Exterior Insulation Finishing Systems (EIFS), Adhesive Applied.....	7.54	
<i>For Up To 100, Add</i>	0.94	
<i>For >100 To 500, Add</i>	0.47	
<i>For >5,000, Deduct</i>	-0.19	
<i>For Adhesive And Mechanically Fastened To Wood Or Steel, Add</i>	2.01	
<i>For Adhesive And Mechanically Fastened To Concrete Or Masonry, Add</i>	2.72	
07 24 13 00-0009 Fiberglass Reinforcing Mesh For Exterior Insulation Finishing Systems (EIFS) <small>(07 24 13 00-0001)</small>		
<i>Note: Includes applying a layer of base coat to the insulation board and fully embedding the reinforcing fabric in the wet base coat.</i>		
07 24 13 00-0010 SF 4.3 OZ, Fiberglass Reinforcing Mesh For Exterior Insulation Finishing Systems (EIFS) (Dryvit S-Mesh), Embedded In A Layer Of Base Coat.....	5.53	
<i>For Up To 100, Add</i>	1.77	
<i>For >100 To 500, Add</i>	0.88	
<i>For >5,000, Deduct</i>	-0.35	
07 24 13 00-0011 SF 6.0 OZ, Fiberglass Reinforcing Mesh For Exterior Insulation Finishing Systems (EIFS) (Dryvit SP-Mesh), Embedded In A Layer Of Base Coat.....	6.11	
<i>For Up To 100, Add</i>	1.77	
<i>For >100 To 500, Add</i>	0.88	
<i>For >5,000, Deduct</i>	-0.35	
07 24 13 00-0012 SF 15.0 OZ, Fiberglass Reinforcing Mesh For Exterior Insulation Finishing Systems (EIFS) (Dryvit Panzer® 15), Embedded In A Layer Of Base Coat.....	7.70	
<i>For Up To 100, Add</i>	1.77	
<i>For >100 To 500, Add</i>	0.88	
<i>For >5,000, Deduct</i>	-0.35	
07 24 13 00-0013 SF 20.0 OZ, Fiberglass Reinforcing Mesh For Exterior Insulation Finishing Systems (EIFS) (Dryvit Panzer® 20), Embedded In A Layer Of Base Coat.....	8.17	
<i>For Up To 100, Add</i>	1.77	
<i>For >100 To 500, Add</i>	0.88	
<i>For >5,000, Deduct</i>	-0.35	
07 24 13 00-0014 Base Coats For Exterior Insulation Finishing Systems (EIFS) <small>(07 24 13 00-0001)</small>		
07 24 13 00-0015 SF Polymer-Based, Fiber-Reinforced Base Coat For Exterior Insulation Finishing Systems (EIFS) (Dryvit Genesis® DM).....	2.69	
<i>For Up To 100, Add</i>	0.88	
<i>For >100 To 500, Add</i>	0.44	
<i>For >5,000, Deduct</i>	-0.18	
07 24 13 00-0016 SF Acrylic-Modified, Fiber-Reinforced Base Coat For Exterior Insulation Finishing Systems (EIFS) (Dryvit Genesis®).....	3.13	
<i>For Up To 100, Add</i>	0.88	
<i>For >100 To 500, Add</i>	0.44	
<i>For >5,000, Deduct</i>	-0.18	
07 24 13 00-0017 SF Water Resistant, Acrylic Co-Polymer Base Coat For Exterior Insulation Finishing Systems (EIFS) (Dryvit Dryflex®).....	5.48	
<i>For Up To 100, Add</i>	0.88	
<i>For >100 To 500, Add</i>	0.44	
<i>For >5,000, Deduct</i>	-0.18	
07 24 13 00-0018 SF Hydrostatic Water Resistant, Acrylic Co-Polymer Base Coat For Exterior Insulation Finishing Systems (EIFS) (Dryvit Dryflex®).....	7.35	
<i>For Up To 100, Add</i>	0.88	
<i>For >100 To 500, Add</i>	0.44	
<i>For >5,000, Deduct</i>	-0.18	
07 24 13 00-0019 Finish Coats For Exterior Insulation Finishing Systems (EIFS) <small>(07 24 13 00-0001)</small>		
<i>Note: Includes all standard manufacturers' colors.</i>		
07 24 13 00-0020 SF 100% Acrylic-Based Aggregate Fine Finish Coat For Exterior Insulation Finishing Systems (EIFS) (Dryvit DPR Finish).....	4.58	
<i>For Up To 100, Add</i>	1.77	
<i>For >100 To 500, Add</i>	0.88	
<i>For >5,000, Deduct</i>	-0.35	
07 24 13 00-0021 SF 100% Acrylic-Based Aggregate Textured Finish Coat For Exterior Insulation Finishing Systems (EIFS) (Dryvit DPR Finish).....	4.67	
<i>For Up To 100, Add</i>	1.77	
<i>For >100 To 500, Add</i>	0.88	
<i>For >5,000, Deduct</i>	-0.35	
07 24 13 00-0022 SF Lightweight Elastic, 100% Acrylic-Based Aggregate Fine Finish Coat For Exterior Insulation Finishing Systems (EIFS) (Dryvit E™ Finish).....	5.37	
<i>For Up To 100, Add</i>	1.77	
<i>For >100 To 500, Add</i>	0.88	
<i>For >5,000, Deduct</i>	-0.35	

07 Thermal And Moisture Protection**07 20 Thermal Protection****07 24 Exterior Insulation and Finish Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 24 13 00-0023	SF		Lightweight Elastic, 100% Acrylic-Based Aggregate Textured Finish Coat For Exterior Insulation Finishing Systems (EIFS) (Dryvit E™ Finish).....	5.98	
			For Up To 100, Add	1.77	
			For >100 To 500, Add	0.88	
			For >5,000, Deduct	-0.35	
07 24 13 00-0024	SF		Mildew Resistant, 100% Acrylic-Based Aggregate Fine Finish Coat For Exterior Insulation Finishing Systems (EIFS) (Dryvit PMR™ Finish).....	5.37	
			For Up To 100, Add	1.77	
			For >100 To 500, Add	0.88	
			For >5,000, Deduct	-0.35	
07 24 13 00-0025	SF		Mildew Resistant, 100% Acrylic-Based Aggregate Textured Finish Coat For Exterior Insulation Finishing Systems (EIFS) (Dryvit PMR™ Finish).....	5.98	
			For Up To 100, Add	1.77	
			For >100 To 500, Add	0.88	
			For >5,000, Deduct	-0.35	
07 24 13 00-0026	SF		Flexible Elastomeric, 100% Acrylic-Based Smooth Finish Coat For Exterior Insulation Finishing Systems (EIFS) (Dryvit Weatherlastic® Smooth)	4.77	
			For Up To 100, Add	1.77	
			For >100 To 500, Add	0.88	
			For >5,000, Deduct	-0.35	
07 24 13 00-0027	SF		Flexible Elastomeric, 100% Acrylic-Based Textured Finish Coat For Exterior Insulation Finishing Systems (EIFS) (Dryvit Weatherlastic®).....	5.41	
			For Up To 100, Add	1.77	
			For >100 To 500, Add	0.88	
			For >5,000, Deduct	-0.35	
07 24 13 00-0028	SF		100% Acrylic-Based Finish With Multi-Colored Quartz Aggregates, Finish Coat For Exterior Insulation Finishing Systems (EIFS) (Dryvit Ameristone™)	10.87	
			For Up To 100, Add	1.77	
			For >100 To 500, Add	0.88	
			For >5,000, Deduct	-0.35	
07 24 13 00-0029			Primer And Sealers For Exterior Insulation Finishing Systems (EIFS) (07 24 13 00-0001)		
07 24 13 00-0030	SF		100% Acrylic-Based Primer/Adhesion Promoter For Exterior Insulation Finishing Systems (EIFS) (Dryvit Prymit®).....	1.38	
			For Up To 100, Add	0.50	
			For >100 To 500, Add	0.25	
			For >5,000, Deduct	-0.10	
07 24 13 00-0031	SF		100% Acrylic Emulsion Primer/Sealer For Exterior Insulation Finishing Systems (EIFS) (Dryvit SealClear™).....	1.41	
			For Up To 100, Add	0.50	
			For >100 To 500, Add	0.25	
			For >5,000, Deduct	-0.10	
07 24 13 00-0032			Air/Water/Vapor Barriers For Exterior Insulation Finishing Systems (EIFS) (07 24 13 00-0001)		
07 24 13 00-0033	SF		Smooth, High Performance, Polymer-Based, Non-Cementitious Water-Resistive Membrane And Air Barrier For Exterior Insulation Finishing Systems (EIFS) (Dryvit Backstop® NT™), Per Coat	1.89	
			For Up To 100, Add	0.50	
			For >100 To 500, Add	0.25	
			For >5,000, Deduct	-0.10	
07 24 13 00-0034	SF		Texture, High Performance, Polymer-Based, Non-Cementitious Water-Resistive Membrane And Air Barrier For Exterior Insulation Finishing Systems (EIFS) (Dryvit Backstop® NT™), Per Coat	2.33	
			For Up To 100, Add	0.50	
			For >100 To 500, Add	0.25	
			For >5,000, Deduct	-0.10	
07 24 13 00-0035			Drainage Accessories For Exterior Insulation Finishing Systems (EIFS) (07 24 13 00-0001)		
07 24 13 00-0036	SF		1/8" Thick, Flexible Polyamide Drainage Mat For Exterior Insulation Finishing Systems (EIFS) (Dryvit Drainage Mat)	2.88	
			For Up To 100, Add	0.55	
			For >100 To 500, Add	0.28	
			For >5,000, Deduct	-0.11	
07 24 13 00-0037			Starter Tracks For Exterior Insulation Finishing Systems (EIFS) (07 24 13 00-0001)		
07 24 13 00-0038	LF		1" Width, Polyvinyl Chloride (PVC) Perforated "J" Channel Drainage Track (Dryvit Starter Trac STWP).....	4.20	
07 24 13 00-0039	LF		1-1/2" Width, Polyvinyl Chloride (PVC) Perforated "J" Channel Drainage Track (Dryvit Starter Trac STWP).....	4.53	
07 24 13 00-0040	LF		2" Width, Polyvinyl Chloride (PVC) Perforated "J" Channel Drainage Track (Dryvit Starter Trac STWP).....	4.92	
07 24 13 00-0041	LF		3" Width, Polyvinyl Chloride (PVC) Perforated "J" Channel Drainage Track (Dryvit Starter Trac STWP).....	5.72	
07 24 13 00-0042	LF		1" Width, Polyvinyl Chloride (PVC) Perforated "J" Channel Drainage Track With Drip Edge (Dryvit Starter Trac STDE).....	4.53	
07 24 13 00-0043	LF		1-1/2" Width, Polyvinyl Chloride (PVC) Perforated "J" Channel Drainage Track With Drip Edge (Dryvit Starter Trac STDE).....	4.92	
07 24 13 00-0044	LF		2" Width, Polyvinyl Chloride (PVC) Perforated "J" Channel Drainage Track With Drip Edge (Dryvit Starter Trac STDE).....	5.30	
07 24 13 00-0045	LF		3" Width, Polyvinyl Chloride (PVC) Perforated "J" Channel Drainage Track With Drip Edge (Dryvit Starter Trac STDE).....	6.18	
07 24 13 00-0046			Demolish Exterior Insulation Finishing Systems (EIFS) (07 24 13 00-0001)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 24 13 00-0047 SF Demolish Exterior Insulation Finishing Systems (EIFS).....	7.39	
Note: Includes demolition of all finish coats, base coats, reinforcing layers and insulation layers down to the substrate. Excludes demolition of sheathing.		
For Up To 100, Add	3.70	
For >100 To 500, Add	1.85	
For >5,000, Deduct	-0.74	

07 25 Weather Barriers (07)**07 26 Vapor Retarders** (07 25)**07 26 13 Above-Grade Vapor Retarders** (07 26)

07 26 13 00-0001 CSF Two Layer Kraft Paper Laminated With Asphalt, Grade "B" Building Paper (Aquabar B).....	33.85
07 26 13 00-0002 CSF Asphalt Saturated Kraft Building Paper, Grade D (Fortifiber Jumbo Tex).....	31.60
07 26 13 00-0003 CSF 60 Minute Asphalt Saturated Kraft Building Paper, Grade D (Fortifiber Super Jumbo Tex 60 Minute).....	38.80
07 26 13 00-0004 CSF Two Ply 60 Minute Asphalt Saturated Kraft Building Paper, Grade D (Fortifiber Two Ply Super Jumbo Tex 60 Minute)	49.38
07 26 13 00-0005 CSF Regular Weight Red Rosin Sized Sheathing	29.29
07 26 13 00-0006 CLF 6" Wide Two Layer Kraft Paper Laminated With Asphalt, Building Flashing Paper (Bond Beam Paper).....	98.86
07 26 13 00-0007 CLF 4" Wide Self Adhering Butyl Sealing Tape	146.65
07 26 13 00-0008 CLF 6" Wide Self Adhesive Butyl Sealing Tape	209.56
07 26 13 00-0009 CLF 9" Wide Self Adhesive Butyl Sealing Tape	288.47
07 26 13 00-0010 CSF Building Wrap (Tyvek)	86.08

07 27 Air Barriers (07 25)**07 27 23 Board Product Air Barriers** (07 27)**07 27 23 00-0001 Barriers For Plenums** (07 27 23)

07 27 23 00-0002 SF 0.5" Thick Leaded Vinyl Acoustic Plenum Barrier 0.48 LB/SF	13.80	3.81
For Up To 50, Add	5.06	
For >50 To 200, Add	2.87	
For >200 To 500, Add	1.06	
For >2,500, Deduct	-0.69	
07 27 23 00-0003 SF 0.625" Thick Leaded Vinyl Acoustic Plenum Barrier 0.87 LB/SF	14.94	3.81
For Up To 50, Add	5.52	
For >50 To 200, Add	3.13	
For >200 To 500, Add	1.16	
For >2,500, Deduct	-0.75	
07 27 23 00-0004 SF Aluminum Foil Fiberglass Reinforced Plenum Bar Parallel With Joists 1" Thick.....	5.45	2.54
For Up To 50, Add	2.67	
For >50 To 200, Add	1.47	
For >200 To 500, Add	0.50	
For >2,500, Deduct	-0.27	
07 27 23 00-0005 SF Aluminum Foil Fiberglass Reinforced Plenum Bar Perpendicular With Joists 1" Thick	9.95	3.81
For Up To 50, Add	4.77	
For >50 To 200, Add	2.64	
For >200 To 500, Add	0.91	
For >2,500, Deduct	-0.50	
07 27 23 00-0006 SF Aluminum Mesh Barrier For Plenum Kraft Paper Backed	6.86	2.54
For Up To 50, Add	2.88	
For >50 To 200, Add	1.61	
For >200 To 500, Add	0.57	
For >2,500, Deduct	-0.34	
07 27 23 00-0007 SF 1/64" Thick Sheet Lead Barrier For Plenum 1 LB/SF	10.51	2.54
For Up To 50, Add	3.27	
For >50 To 200, Add	1.90	
For >200 To 500, Add	0.74	
For >2,500, Deduct	-0.53	

07 27 23 00-0008 Under Slab Insulation, Extruded Polystyrene (XPS) Sheets (07 27 23)

07 27 23 00-0009 SF 1" Extruded Polystyrene Foam (XPS) Sheet Under Slab Insulation	2.41
07 27 23 00-0010 SF 2" Extruded Polystyrene Foam (XPS) Sheet Under Slab Insulation	3.69
07 27 23 00-0011 SF 3" Extruded Polystyrene Foam (XPS) Sheet Under Slab Insulation	4.85
07 27 23 00-0012 SF 4" Extruded Polystyrene Foam (XPS) Sheet Under Slab Insulation	5.98

07 30 Steep Slope Roofing (07)

Note: Includes starter strips and manufacturer's product specific warranties.

07 31 Shingles and Shakes (07 30)**07 31 13 Asphalt Shingles** (07 31)**07 31 13 13 Fiberglass-Reinforced Asphalt Shingles** (07 31 13)**07 31 13 13-0001 Three Tab Fiberglass Reinforced, Asphalt Composition Shingle** (07 31 13 13)

Note: Excludes underlayment, drip edges, and ridge vent/shingles.

07 Thermal And Moisture Protection**07 30 Steep Slope Roofing****07 31 Shingles and Shakes**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 31 13 13-0002	SQ		200 LB/SQ, 5" Exposure, Three Tab Fiberglass Reinforced, Asphalt Composition Shingle (CertainTeed CT 20).....	301.20	203.77
			<i>For >35 To 75, Deduct</i>	-11.59	
			<i>For >75 To 100, Deduct</i>	-18.54	
			<i>For >100 To 200, Deduct</i>	-27.81	
			<i>For >200, Deduct</i>	-41.71	
			<i>For Steep Roof, Over 7 To 12, Add</i>	59.30	
07 31 13 13-0003	SQ		220 LB/SQ, 5" Exposure, Three Tab Fiberglass Reinforced, Asphalt Composition Shingle (CertainTeed XT 25).....	315.90	213.99
			<i>For >35 To 75, Deduct</i>	-12.14	
			<i>For >75 To 100, Deduct</i>	-19.43	
			<i>For >100 To 200, Deduct</i>	-29.14	
			<i>For >200, Deduct</i>	-43.73	
			<i>For Steep Roof, Over 7 To 12, Add</i>	62.25	
07 31 13 13-0004	SQ		230 LB/SQ, 5" Exposure, Three Tab Fiberglass Reinforced, Asphalt Composition Shingle (CertainTeed XT 30).....	364.22	224.66
			<i>For >35 To 75, Deduct</i>	-15.99	
			<i>For >75 To 100, Deduct</i>	-24.30	
			<i>For >100 To 200, Deduct</i>	-35.80	
			<i>For >200, Deduct</i>	-52.41	
			<i>For Steep Roof, Over 7 To 12, Add</i>	65.39	
07 31 13 13-0005			Architectural Fiberglass Reinforced, Asphalt Composition Shingle^(07 31 13 13)		
			Note: Excludes underlayment, drip edges, and ridge vent/shingles.		
07 31 13 13-0006	SQ		245 LB/SQ, 5" Exposure, Two Layer Laminated Fiberglass Reinforced, Asphalt Composition Shingle (CertainTeed Landmark).....	376.02	260.12
			<i>For >35 To 75, Deduct</i>	-13.96	
			<i>For >75 To 100, Deduct</i>	-22.66	
			<i>For >100 To 200, Deduct</i>	-34.15	
			<i>For >200, Deduct</i>	-51.56	
			<i>For Steep Roof, Over 7 To 12, Add</i>	75.66	
07 31 13 13-0007	SQ		240 LB/SQ, 8" Exposure, Four Tab Fiberglass Reinforced, Asphalt Composition Shingle (CertainTeed Highland Slate).....	396.40	247.68
			<i>For >35 To 75, Deduct</i>	-17.12	
			<i>For >75 To 100, Deduct</i>	-26.17	
			<i>For >100 To 200, Deduct</i>	-38.65	
			<i>For >200, Deduct</i>	-56.76	
			<i>For Steep Roof, Over 7 To 12, Add</i>	72.07	
07 31 13 13-0008	SQ		265 LB/SQ, 5" Exposure, Two Layer Laminated Fiberglass Reinforced, Asphalt Composition Shingle (CertainTeed Landmark Plus).....	429.69	273.13
			<i>For >35 To 75, Deduct</i>	-18.14	
			<i>For >75 To 100, Deduct</i>	-27.97	
			<i>For >100 To 200, Deduct</i>	-41.43	
			<i>For >200, Deduct</i>	-61.10	
			<i>For Steep Roof, Over 7 To 12, Add</i>	79.47	
07 31 13 13-0009	SQ		235 LB/SQ, 8" Exposure, Four Tab Fiberglass Reinforced, Asphalt Composition Shingle (CertainTeed Hatteras).....	413.27	235.90
			<i>For >35 To 75, Deduct</i>	-19.88	
			<i>For >75 To 100, Deduct</i>	-29.22	
			<i>For >100 To 200, Deduct</i>	-42.53	
			<i>For >200, Deduct</i>	-61.21	
			<i>For Steep Roof, Over 7 To 12, Add</i>	68.62	
07 31 13 13-0010	SQ		300 LB/SQ, 5" Exposure, Two Layer Laminated Fiberglass Reinforced, Asphalt Composition Shingle (CertainTeed Landmark Premium).....	465.60	286.81
			<i>For >35 To 75, Deduct</i>	-20.49	
			<i>For >75 To 100, Deduct</i>	-31.11	
			<i>For >100 To 200, Deduct</i>	-45.82	
			<i>For >200, Deduct</i>	-67.05	
			<i>For Steep Roof, Over 7 To 12, Add</i>	83.42	
07 31 13 13-0011	SQ		300 LB/SQ, 5" Exposure, Random Laminated Tabs, One Piece, Fiberglass Reinforced, Asphalt Composition Shingle (CertainTeed Independence).....	495.64	286.81
			<i>For >35 To 75, Deduct</i>	-23.50	
			<i>For >75 To 100, Deduct</i>	-34.71	
			<i>For >100 To 200, Deduct</i>	-50.63	
			<i>For >200, Deduct</i>	-73.06	
			<i>For Steep Roof, Over 7 To 12, Add</i>	83.42	
07 31 13 13-0012	SQ		355 LB/SQ, 4" Exposure, Sculpted Edge, Two Layer Laminated Fiberglass Reinforced, Asphalt Composition Shingle (CertainTeed Presidential Shake).....	541.44	316.15
			<i>For >35 To 75, Deduct</i>	-25.40	
			<i>For >75 To 100, Deduct</i>	-37.66	
			<i>For >100 To 200, Deduct</i>	-55.01	
			<i>For >200, Deduct</i>	-79.54	
			<i>For Steep Roof, Over 7 To 12, Add</i>	91.99	
07 31 13 13-0013	SQ		340 LB/SQ, 5" Exposure, Three Layer Laminated Fiberglass Reinforced, Asphalt Composition Shingle (CertainTeed Landmark TL).....	536.21	301.15
			<i>For >35 To 75, Deduct</i>	-26.25	
			<i>For >75 To 100, Deduct</i>	-38.34	
			<i>For >100 To 200, Deduct</i>	-55.69	
			<i>For >200, Deduct</i>	-79.87	
			<i>For Steep Roof, Over 7 To 12, Add</i>	87.58	
07 31 13 13-0014	SQ		300 LB/SQ, 5" Exposure, Reflective Two Layer Laminated Fiberglass Reinforced, Asphalt Composition Shingle (CertainTeed Landmark Solaris).....	532.57	286.81
			<i>For >35 To 75, Deduct</i>	-27.19	
			<i>For >75 To 100, Deduct</i>	-39.14	
			<i>For >100 To 200, Deduct</i>	-56.54	
			<i>For >200, Deduct</i>	-80.45	
			<i>For Steep Roof, Over 7 To 12, Add</i>	83.42	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 31 13 13-0015 SQ 355 LB/SQ, 8" Exposure, Two Full Size Layers, Four Tab Fiberglass Reinforced, Asphalt Composition Shingle (CertainTeed Centennial Slate)	622.30	316.15
<i>For >35 To 75, Deduct</i>	-33.48	
<i>For >75 To 100, Deduct</i>	-47.37	
<i>For >100 To 200, Deduct</i>	-67.95	
<i>For >200, Deduct</i>	-95.71	
<i>For Steep Roof, Over 7 To 12, Add</i>	91.99	
07 31 13 13-0016 SQ 355 LB/SQ, 8" Exposure, Scalloped Cut, Two Full Size Layers, Four Tab Fiberglass Reinforced, Asphalt Composition Shingle (CertainTeed Carriage House).....	643.35	316.15
<i>For >35 To 75, Deduct</i>	-35.59	
<i>For >75 To 100, Deduct</i>	-49.89	
<i>For >100 To 200, Deduct</i>	-71.31	
<i>For >200, Deduct</i>	-99.92	
<i>For Steep Roof, Over 7 To 12, Add</i>	91.99	
07 31 13 13-0017 SQ 480 LB/SQ, 4" Exposure, Sculpted Edge, Three Layer Laminated Fiberglass Reinforced, Asphalt Composition Shingle (CertainTeed Presidential Shake TL)	714.58	348.61
<i>For >35 To 75, Deduct</i>	-39.77	
<i>For >75 To 100, Deduct</i>	-55.64	
<i>For >100 To 200, Deduct</i>	-79.47	
<i>For >200, Deduct</i>	-111.22	
<i>For Steep Roof, Over 7 To 12, Add</i>	101.42	
07 31 13 13-0018 SQ 425 LB/SQ, 8" Exposure, Random Laminated Tabs, Two Full Size Layers, Four Tab Fiberglass Reinforced, Asphalt Composition Shingle (CertainTeed GrandManor).....	703.11	331.94
<i>For >35 To 75, Deduct</i>	-40.13	
<i>For >75 To 100, Deduct</i>	-55.70	
<i>For >100 To 200, Deduct</i>	-79.30	
<i>For >200, Deduct</i>	-110.44	
<i>For Steep Roof, Over 7 To 12, Add</i>	96.58	
07 31 13 13-0019 Asphalt Shingle Accessories <small>(07 31 13 13)</small>		
07 31 13 13-0020 LF Hip And Ridge Roll Vent	8.82	1.22
Note: Excludes shingles.		
07 31 13 13-0021 LF Three Tab Hip And Ridge Shingles	4.24	3.03
07 31 13 13-0022 LF Architectural Hip And Ridge Shingles	5.12	3.37
07 31 13 13-0023 SQ Demolish Each Additional Layer Of Shingles	94.49	
07 31 16 Metal Shingles <small>(07 31)</small>		
07 31 16 00-0001 Aluminum Shingles <small>(07 31 16)</small>		
07 31 16 00-0002 SQ Aluminum Shingles, Mill Finish, 0.020" Thick	781.71	195.44
<i>For Colors, Anodized Finish, Add</i>	30.00	
<i>For Bonderized Finish, Add</i>	47.00	
<i>For 1" Factory Applied Polystyrene, Add</i>	37.00	
07 31 16 00-0003 SQ Aluminum Shingles, Mill Finish, 0.030" Thick	1,055.96	213.61
<i>For Colors, Anodized Finish, Add</i>	30.00	
<i>For Bonderized Finish, Add</i>	47.00	
<i>For 1" Factory Applied Polystyrene, Add</i>	37.00	
07 31 16 00-0004 LF Aluminum Shingles, Ridge Cap, 0.020" Thick	14.13	2.81
07 31 16 00-0005 LF Aluminum Shingles, Ridge Cap, 0.030" Thick	14.77	2.81
07 31 16 00-0006 LF Aluminum Shingles, Valley Section, 0.020" Thick	9.37	2.81
07 31 16 00-0007 LF Aluminum Shingles, Valley Section, 0.030" Thick	10.64	2.81
07 31 16 00-0008 Galvanized Steel Shingles <small>(07 31 16)</small>		
07 31 16 00-0009 SQ 24 Gauge, 0.0276" Thickness, Galvanized Steel Shingles	589.47	170.44
<i>For Factory Applied 1" Polystyrene Insulation, Add</i>	24.75	
<i>For >50 To 75, Deduct</i>	-9.94	
<i>For >75 To 100, Deduct</i>	-25.92	
<i>For >100 To 200, Deduct</i>	-44.39	
<i>For >200, Deduct</i>	-60.37	
<i>For Steep Roof, Over 7 To 12, Add</i>	109.10	
07 31 16 00-0010 SQ 26 Gauge, 0.0217" Thickness, Galvanized Steel Shingles	566.10	169.07
<i>For Factory Applied 1" Polystyrene Insulation, Add</i>	24.75	
<i>For >50 To 75, Deduct</i>	-9.12	
<i>For >75 To 100, Deduct</i>	-24.42	
<i>For >100 To 200, Deduct</i>	-41.99	
<i>For >200, Deduct</i>	-57.28	
<i>For Steep Roof, Over 7 To 12, Add</i>	108.17	
07 31 16 00-0011 SQ 24 Gauge, 0.0276" Thickness, Galvanized And Bonderized Steel Shingles.....	951.81	170.44
<i>For Factory Applied 1" Polystyrene Insulation, Add</i>	24.75	
<i>For >50 To 75, Deduct</i>	-24.44	
<i>For >75 To 100, Deduct</i>	-51.28	
<i>For >100 To 200, Deduct</i>	-84.24	
<i>For >200, Deduct</i>	-111.09	
<i>For Steep Roof, Over 7 To 12, Add</i>	109.10	
07 31 16 00-0012 SQ 26 Gauge, 0.0276" Thickness, Galvanized And Bonderized Steel Shingles.....	873.60	169.07
<i>For Factory Applied 1" Polystyrene Insulation, Add</i>	24.75	
<i>For >50 To 75, Deduct</i>	-21.42	
<i>For >75 To 100, Deduct</i>	-45.94	
<i>For >100 To 200, Deduct</i>	-75.81	
<i>For >200, Deduct</i>	-100.33	
<i>For Steep Roof, Over 7 To 12, Add</i>	108.17	

07 Thermal And Moisture Protection**07 30 Steep Slope Roofing****07 31 Shingles and Shakes**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 31 16 00-0013	LF		Galvanized Steel Shingles, Ridge Or Valley <i>For Factory Applied 1" Polystyrene Insulation, Add</i> <i>For >50 To 75, Deduct</i> <i>For >75 To 100, Deduct</i> <i>For >100 To 200, Deduct</i> <i>For >200, Deduct</i> <i>For Steep Roof, Over 7 To 12, Add</i>	9.69 24.75 -0.21 -0.48 -0.80 -1.07 1.42	2.27
07 31 26 Slate Shingles <small>(07 31)</small>					
Note: Includes 30 LB felt and fasteners.					
07 31 26 00-0001			Shingles Including 30 LB Felt And Nails <small>(07 31 26)</small>		
07 31 26 00-0002	SQ		Slate Shingles, Buckingham, Virginia Black, 3/16" Thick <i>For >50 To 75, Deduct</i> <i>For >75 To 100, Deduct</i> <i>For >100 To 200, Deduct</i> <i>For >200, Deduct</i> <i>For Graduated Shapes, Add</i> <i>For Steep Roof, Over 7 To 12, Add</i>	1,536.06 -35.60 -78.45 -130.21 -173.06 133.51 206.72	290.72
07 31 26 00-0003	SQ		Slate Shingles, Buckingham, Virginia Black, 1/4" Thick <i>For >50 To 75, Deduct</i> <i>For >75 To 100, Deduct</i> <i>For >100 To 200, Deduct</i> <i>For >200, Deduct</i> <i>For Graduated Shapes, Add</i> <i>For Steep Roof, Over 7 To 12, Add</i>	1,781.74 -45.43 -95.65 -157.23 -207.45 170.36 206.72	290.72
07 31 26 00-0004	SQ		Slate Shingles, Penn Black Bangor <i>For >50 To 75, Deduct</i> <i>For >75 To 100, Deduct</i> <i>For >100 To 200, Deduct</i> <i>For >200, Deduct</i> <i>For Graduated Shapes, Add</i> <i>For Steep Roof, Over 7 To 12, Add</i>	1,708.03 -42.48 -90.49 -149.12 -197.13 159.30 206.72	290.72
07 31 26 00-0005	SQ		Slate Shingles, Vermont, Unfading Colors, Green <i>For >50 To 75, Deduct</i> <i>For >75 To 100, Deduct</i> <i>For >100 To 200, Deduct</i> <i>For >200, Deduct</i> <i>For Graduated Shapes, Add</i> <i>For Steep Roof, Over 7 To 12, Add</i>	1,732.60 -43.46 -92.21 -151.83 -200.57 162.99 206.72	290.72
07 31 26 00-0006	SQ		Slate Shingles, Vermont, Unfading Colors, Semi-Weathered, Green/Gray <i>For >50 To 75, Deduct</i> <i>For >75 To 100, Deduct</i> <i>For >100 To 200, Deduct</i> <i>For >200, Deduct</i> <i>For Graduated Shapes, Add</i> <i>For Steep Roof, Over 7 To 12, Add</i>	1,830.87 -47.39 -99.09 -162.64 -214.33 177.73 206.72	290.72
07 31 26 00-0007	SQ		Slate Shingles, Vermont, Unfading Color, Purple <i>For >50 To 75, Deduct</i> <i>For >75 To 100, Deduct</i> <i>For >100 To 200, Deduct</i> <i>For >200, Deduct</i> <i>For Graduated Shapes, Add</i> <i>For Steep Roof, Over 7 To 12, Add</i>	1,708.03 -42.48 -90.49 -149.12 -197.13 159.30 206.72	290.72
07 31 26 00-0008	SQ		Slate Shingles, Vermont, Unfading Color, Black Or Gray <i>For >50 To 75, Deduct</i> <i>For >75 To 100, Deduct</i> <i>For >100 To 200, Deduct</i> <i>For >200, Deduct</i> <i>For Graduated Shapes, Add</i> <i>For Steep Roof, Over 7 To 12, Add</i>	1,634.33 -39.53 -85.33 -141.02 -186.82 148.25 206.72	290.72
07 31 26 00-0009	SQ		Slate Shingles, Vermont, Unfading Color, Red <i>For >50 To 75, Deduct</i> <i>For >75 To 100, Deduct</i> <i>For >100 To 200, Deduct</i> <i>For >200, Deduct</i> <i>For Graduated Shapes, Add</i> <i>For Steep Roof, Over 7 To 12, Add</i>	3,169.48 -100.94 -192.79 -309.88 -401.74 378.52 206.72	290.72
07 31 26 00-0010	SQ		Slate Shingles, Vermont, Unfading Color, Variegated Purple <i>For >50 To 75, Deduct</i> <i>For >75 To 100, Deduct</i> <i>For >100 To 200, Deduct</i> <i>For >200, Deduct</i> <i>For Graduated Shapes, Add</i> <i>For Steep Roof, Over 7 To 12, Add</i>	1,708.03 -42.48 -90.49 -149.12 -197.13 159.30 206.72	290.72

07 31 29 Wood Shingles and Shakes (07 31)**07 31 29 13 Wood Shingles** (07 31 29)07 31 29 13-0001 #1 Grade, Red Cedar Shingles (07 31 29 13)07 31 29 13-0002 #1 Grade, Red Cedar Shingles Installed On Roofs (07 31 29 13-0001)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 31 29 13-0003 SQ 3-3/4" Exposure, 16" Shingle, #1 Grade, Red Cedar Shingles Installed On Roof.....	984.24	253.98
<i>For Steep Roof, Over 7 To 12, Add</i>	<i>162.54</i>	
<i>For Pressure-Impregnated Treated (Preservative), Add</i>	<i>71.44</i>	
07 31 29 13-0004 SQ 5" Exposure, 16" Shingle, #1 Grade, Red Cedar Shingles Installed On Roof.....	714.37	190.48
<i>For Steep Roof, Over 7 To 12, Add</i>	<i>121.91</i>	
<i>For Pressure-Impregnated Treated (Preservative), Add</i>	<i>50.01</i>	
07 31 29 13-0005 SQ 4-1/2" Exposure, 18" Shingle, #1 Grade, Red Cedar Shingles Installed On Roof.....	872.31	215.88
<i>For Steep Roof, Over 7 To 12, Add</i>	<i>138.16</i>	
<i>For Pressure-Impregnated Treated (Preservative), Add</i>	<i>66.08</i>	
07 31 29 13-0006 SQ 5-1/2" Exposure, 18" Shingle, #1 Grade, Red Cedar Shingles Installed On Roof.....	714.62	177.78
<i>For Steep Roof, Over 7 To 12, Add</i>	<i>113.78</i>	
<i>For Pressure-Impregnated Treated (Preservative), Add</i>	<i>53.86</i>	
07 31 29 13-0007 SQ 5-3/4" Exposure, 24" Shingle, #1 Grade, Red Cedar Shingles Installed On Roof.....	936.68	168.26
<i>For Steep Roof, Over 7 To 12, Add</i>	<i>107.69</i>	
<i>For Pressure-Impregnated Treated (Preservative), Add</i>	<i>90.02</i>	
07 31 29 13-0008 SQ 7-1/2" Exposure, 24" Shingle, #1 Grade, Red Cedar Shingles Installed On Roof.....	726.85	142.86
<i>For Steep Roof, Over 7 To 12, Add</i>	<i>91.43</i>	
<i>For Pressure-Impregnated Treated (Preservative), Add</i>	<i>66.17</i>	
07 31 29 13-0009 #1 Grade, Red Cedar Shingles Installed On Walls (07 31 29 13-0001)		
07 31 29 13-0010 SQ 7" Exposure, 16" Shingle, #1 Grade, Red Cedar Shingles Installed On Wall.....	695.31	228.58
<i>For Pressure-Impregnated Treated (Preservative), Add</i>	<i>35.72</i>	
07 31 29 13-0011 SQ 8" Exposure, 18" Shingle, #1 Grade, Red Cedar Shingles Installed On Wall.....	679.38	215.88
<i>For Pressure-Impregnated Treated (Preservative), Add</i>	<i>37.14</i>	
07 31 29 13-0012 SQ 10-1/2" Exposure, 24" Shingle, #1 Grade, Red Cedar Shingles Installed On Wall.....	689.70	187.31
<i>For Pressure-Impregnated Treated (Preservative), Add</i>	<i>47.26</i>	
07 31 29 13-0013 #2 Grade, Red Cedar Shingles (07 31 29 13)		
07 31 29 13-0014 #2 Grade, Red Cedar Shingles Installed On Roofs (07 31 29 13-0013)		
07 31 29 13-0015 SQ 3-1/2" Exposure, 16" Shingle, #2 Grade, Red Cedar Shingles Installed On Roof.....	918.06	266.68
<i>For Steep Roof, Over 7 To 12, Add</i>	<i>170.68</i>	
<i>For Pressure-Impregnated Treated (Preservative), Add</i>	<i>57.71</i>	
07 31 29 13-0016 SQ 4" Exposure, 16" Shingle, #2 Grade, Red Cedar Shingles Installed On Roof.....	819.17	241.28
<i>For Steep Roof, Over 7 To 12, Add</i>	<i>154.42</i>	
<i>For Pressure-Impregnated Treated (Preservative), Add</i>	<i>50.49</i>	
07 31 29 13-0017 SQ 4" Exposure, 18" Shingle, #2 Grade, Red Cedar Shingles Installed On Roof.....	871.68	241.28
<i>For Steep Roof, Over 7 To 12, Add</i>	<i>154.42</i>	
<i>For Pressure-Impregnated Treated (Preservative), Add</i>	<i>58.37</i>	
07 31 29 13-0018 SQ 4-1/2" Exposure, 18" Shingle, #2 Grade, Red Cedar Shingles Installed On Roof.....	777.91	215.88
<i>For Steep Roof, Over 7 To 12, Add</i>	<i>138.16</i>	
<i>For Pressure-Impregnated Treated (Preservative), Add</i>	<i>51.92</i>	
07 31 29 13-0019 SQ 5-3/4" Exposure, 24" Shingle, #2 Grade, Red Cedar Shingles Installed On Roof.....	755.24	168.26
<i>For Steep Roof, Over 7 To 12, Add</i>	<i>107.69</i>	
<i>For Pressure-Impregnated Treated (Preservative), Add</i>	<i>62.81</i>	
07 31 29 13-0020 SQ 6-1/2" Exposure, 24" Shingle, #2 Grade, Red Cedar Shingles Installed On Roof.....	618.21	146.04
<i>For Steep Roof, Over 7 To 12, Add</i>	<i>93.46</i>	
<i>For Pressure-Impregnated Treated (Preservative), Add</i>	<i>48.92</i>	
07 31 29 13-0021 #2 Grade, Red Cedar Shingles Installed On Walls (07 31 29 13-0013)		
07 31 29 13-0022 SQ 6" Exposure, 16" Shingle, #2 Grade, Red Cedar Shingles Installed On Wall.....	674.91	241.28
<i>For Pressure-Impregnated Treated (Preservative), Add</i>	<i>28.85</i>	
07 31 29 13-0023 SQ 7" Exposure, 18" Shingle, #2 Grade, Red Cedar Shingles Installed On Wall.....	651.72	228.58
<i>For Pressure-Impregnated Treated (Preservative), Add</i>	<i>29.18</i>	
07 31 29 13-0024 SQ 9" Exposure, 24" Shingle, #2 Grade, Red Cedar Shingles Installed On Wall.....	626.19	203.19
<i>For Pressure-Impregnated Treated (Preservative), Add</i>	<i>32.97</i>	
07 31 29 16 Wood Shakes (07 31 29)		
07 31 29 16-0001 #1 Grade, Red Cedar Shakes (07 31 29 16)		
07 31 29 16-0002 #1 Grade, Red Cedar Shakes Installed On Roofs (07 31 29 16-0001)		
07 31 29 16-0003 SQ 8-1/2" Exposure, 1/2" Thick, 18" Shake, #1 Grade, Red Cedar Shakes Installed On Roof.....	720.47	206.36
<i>For Steep Roof, Over 7 To 12, Add</i>	<i>132.07</i>	
<i>For Pressure-Impregnated Treated (Preservative), Add</i>	<i>46.16</i>	
07 31 29 16-0004 SQ 8-1/2" Exposure, 3/4" Thick, 18" Shake, #1 Grade, Red Cedar Shakes Installed On Roof.....	823.05	206.36
<i>For Steep Roof, Over 7 To 12, Add</i>	<i>132.07</i>	
<i>For Pressure-Impregnated Treated (Preservative), Add</i>	<i>61.55</i>	
07 31 29 16-0005 SQ 10" Exposure, 1/2" Thick, 24" Shake, #1 Grade, Red Cedar Shakes Installed On Roof.....	759.69	168.26
<i>For Steep Roof, Over 7 To 12, Add</i>	<i>107.69</i>	
<i>For Pressure-Impregnated Treated (Preservative), Add</i>	<i>63.48</i>	
07 31 29 16-0006 SQ 10" Exposure, 3/4" Thick, 24" Shake, #1 Grade, Red Cedar Shakes Installed On Roof.....	803.29	168.26
<i>For Steep Roof, Over 7 To 12, Add</i>	<i>107.69</i>	
<i>For Pressure-Impregnated Treated (Preservative), Add</i>	<i>70.02</i>	
07 31 29 16-0007 #1 Grade, Red Cedar Shakes Installed On Walls (07 31 29 16-0001)		
07 31 29 16-0008 SQ 8-1/2" Exposure, 1/2" Thick, 18" Shake, #1 Grade, Red Cedar Shakes Installed On Wall.....	752.22	222.24
<i>For Pressure-Impregnated Treated (Preservative), Add</i>	<i>46.16</i>	

07 Thermal And Moisture Protection**07 30 Steep Slope Roofing****07 31 Shingles and Shakes**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 31 29 16-0009	SQ		8-1/2" Exposure, 3/4" Thick, 18" Shake, #1 Grade, Red Cedar Shakes Installed On Wall <i>For Pressure-Impregnated Treated (Preservative), Add</i>	854.80 61.55	222.24
07 31 29 16-0010	SQ		10" Exposure, 1/2" Thick, 24" Shake, #1 Grade, Red Cedar Shakes Installed On Wall <i>For Pressure-Impregnated Treated (Preservative), Add</i>	804.14 63.48	190.48
07 31 29 16-0011	SQ		10" Exposure, 3/4" Thick, 24" Shake, #1 Grade, Red Cedar Shakes Installed On Wall <i>For Pressure-Impregnated Treated (Preservative), Add</i>	847.74 70.02	190.48
07 31 29 19 Wood Shingles And Shakes Cap (07 31 29)					
07 31 29 19-0001			Wood Hip And Ridge Cap For Wood Shingles Or Shakes (07 31 29 19)		
07 31 29 19-0002	LF		Red Cedar Hip Or Ridge Cap For Wood Shingles Or Shakes <i>For Steep Roof, Over 7 To 12, Add</i> <i>For Pressure-Impregnated Treated (Preservative) Ridge, Add</i>	11.97 1.23 1.22	1.65
07 31 33 Composite Rubber Shingles (07 31)					
07 31 33 00-0001	SQ		Class C Rectangular Edges Polymeric Rubber Slate Shingles, 7.0" Exposure Note: Gray or black. <i>For Purple Or Green Color, Add</i> <i>For Brown Or Red Color, Add</i> <i>For Steep Roof, Over 7 To 12, Add</i> <i>For >50 To 75, Deduct</i> <i>For >75 To 100, Deduct</i> <i>For >100 To 200, Deduct</i> <i>For >200, Deduct</i> <i>For 6.5" Exposure, Add</i> <i>For 6.0" Exposure, Add</i>	1,364.04 134.44 344.51 167.61 -21.01 -55.11 -89.21 -136.40 94.94 189.87	261.91
07 31 33 00-0002	SQ		Class A Rectangular Edges Polymeric Rubber Slate Shingles, 7.0" Exposure Note: Fire resistant. Gray or black. <i>For Purple, Green, Brown Or Red, Add</i> <i>For Steep Roof, Over 7 To 12, Add</i> <i>For >50 To 75, Deduct</i> <i>For >75 To 100, Deduct</i> <i>For >100 To 200, Deduct</i> <i>For >200, Deduct</i> <i>For 6.5" Exposure, Add</i> <i>For 6.0" Exposure, Add</i>	1,924.22 210.07 167.61 -35.01 -83.12 -131.22 -192.42 134.95 269.90	261.91
07 31 33 00-0003	SQ		Class C Shaped Polymeric Rubber Slate Shingle, 7.0" Exposure Note: Beaver tail, chisel point or beveled edges. Gray or black. <i>For Purple, Green, Brown Or Red, Add</i> <i>For Steep Roof, Over 7 To 12, Add</i> <i>For >50 To 75, Deduct</i> <i>For >75 To 100, Deduct</i> <i>For >100 To 200, Deduct</i> <i>For >200, Deduct</i> <i>For 6.5" Exposure, Add</i> <i>For 6.0" Exposure, Add</i>	1,594.70 385.53 167.61 -26.77 -66.64 -106.51 -159.47 111.42 222.82	261.91
07 31 33 00-0004	SQ		Class A Shaped Polymeric Rubber Slate Shingle, 7.0" Exposure Note: Fire resistant. Beaver tail, chisel point or beveled edges. Gray or black. <i>For Purple, Green, Brown Or Red, Add</i> <i>For Steep Roof, Over 7 To 12, Add</i> <i>For >50 To 75, Deduct</i> <i>For >75 To 100, Deduct</i> <i>For >100 To 200, Deduct</i> <i>For >200, Deduct</i> <i>For 6.5" Exposure, Add</i> <i>For 6.0" Exposure, Add</i>	2,039.55 166.74 167.61 -37.89 -88.88 -139.87 -203.96 143.19 286.37	261.91
07 31 33 00-0005	LF		Hip Or Ridge Polymeric Rubber Slate Shingle Note: Beveled or pointed edges, gray or black.	16.43	1.76
07 32 Roof Tiles (07 30)					
07 32 13 Clay Roof Tiles (07 32)					
Note: 8-1/4" x 11" exposure. Includes mortar, battens, fasteners, felt underlayment and 90# cap sheet.					
07 32 13 00-0001			Clay Roofing Tile 8-1/4" x 11" Exposure (07 32 13)		
Note: Includes mortar, battens, fasteners, felt underlayment and 90# cap sheet.					
07 32 13 00-0002	SQ		Lanai Or Classic Tile, 158 Piece Per SQ <i>For >25 To 50, Deduct</i> <i>For >50 To 75, Deduct</i> <i>For >75 To 100, Deduct</i> <i>For >100 To 200, Deduct</i> <i>For >200, Deduct</i> <i>For 20 Year Warranty, Add</i>	1,336.95 -47.13 -92.33 -129.68 -159.18 -180.82 54.98	275.72
07 32 13 00-0003	SQ		Americana (Most Colors) Tile Roofing, 158 Piece Per SQ <i>For >25 To 50, Deduct</i> <i>For >50 To 75, Deduct</i> <i>For >75 To 100, Deduct</i> <i>For >100 To 200, Deduct</i> <i>For >200, Deduct</i> <i>For 20 Year Warranty, Add</i>	1,588.71 -62.23 -117.51 -162.41 -196.94 -221.10 72.60	275.72



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 32 13 00-0004 SQ Americana (Green, Gray Or Brown) Tile, 158 Piece Per SQ	1,588.71	275.72
<i>For >25 To 50, Deduct</i>	-62.23	
<i>For >50 To 75, Deduct</i>	-117.51	
<i>For >75 To 100, Deduct</i>	-162.41	
<i>For >100 To 200, Deduct</i>	-196.94	
<i>For >200, Deduct</i>	-221.10	
<i>For 20 Year Warranty, Add</i>	72.60	
07 32 13 00-0005 SQ Americana (Blue) Tile, 158 Piece Per SQ	1,802.32	275.72
<i>For >25 To 50, Deduct</i>	-75.05	
<i>For >50 To 75, Deduct</i>	-138.87	
<i>For >75 To 100, Deduct</i>	-190.18	
<i>For >100 To 200, Deduct</i>	-228.99	
<i>For >200, Deduct</i>	-255.28	
<i>For 20 Year Warranty, Add</i>	87.56	
07 32 13 00-0006 SQ French Tile Roofing, Red, 133 Piece Per SQ	1,595.01	337.11
<i>For >25 To 50, Deduct</i>	-55.25	
<i>For >50 To 75, Deduct</i>	-108.94	
<i>For >75 To 100, Deduct</i>	-153.42	
<i>For >100 To 200, Deduct</i>	-188.69	
<i>For >200, Deduct</i>	-214.75	
<i>For 20 Year Warranty, Add</i>	64.46	
07 32 13 00-0007 SQ French Tile Roofing, Blue Or Green, 133 Piece Per SQ	1,970.79	337.11
<i>For >25 To 50, Deduct</i>	-77.80	
<i>For >50 To 75, Deduct</i>	-146.51	
<i>For >75 To 100, Deduct</i>	-202.27	
<i>For >100 To 200, Deduct</i>	-245.05	
<i>For >200, Deduct</i>	-274.87	
<i>For 20 Year Warranty, Add</i>	90.76	
07 32 13 00-0008 SQ Norman Tile Roofing, 317 Piece Per SQ	2,518.67	454.79
<i>For >25 To 50, Deduct</i>	-96.56	
<i>For >50 To 75, Deduct</i>	-183.67	
<i>For >75 To 100, Deduct</i>	-254.68	
<i>For >100 To 200, Deduct</i>	-309.60	
<i>For >200, Deduct</i>	-348.43	
<i>For 20 Year Warranty, Add</i>	112.66	
07 32 13 00-0009 SQ Williamsburg Tile Roofing, Aged Cedar, 158 Piece Per SQ	1,407.00	337.11
<i>For >25 To 50, Deduct</i>	-43.97	
<i>For >50 To 75, Deduct</i>	-90.14	
<i>For >75 To 100, Deduct</i>	-128.97	
<i>For >100 To 200, Deduct</i>	-160.49	
<i>For >200, Deduct</i>	-184.67	
<i>For 20 Year Warranty, Add</i>	51.30	
07 32 13 00-0010 SQ Williamsburg Tile Roofing, Gray Or Green, 158 Piece Per SQ	1,711.41	337.11
<i>For >25 To 50, Deduct</i>	-62.23	
<i>For >50 To 75, Deduct</i>	-120.58	
<i>For >75 To 100, Deduct</i>	-168.55	
<i>For >100 To 200, Deduct</i>	-206.15	
<i>For >200, Deduct</i>	-233.37	
<i>For 20 Year Warranty, Add</i>	72.60	
07 32 13 00-0011 SQ Spanish Tile Roofing, Red, 171 Piece Per SQ	1,198.77	252.41
<i>For >25 To 50, Deduct</i>	-41.63	
<i>For >50 To 75, Deduct</i>	-82.01	
<i>For >75 To 100, Deduct</i>	-115.45	
<i>For >100 To 200, Deduct</i>	-141.95	
<i>For >200, Deduct</i>	-161.51	
<i>For 20 Year Warranty, Add</i>	48.57	
07 32 13 00-0012 SQ Spanish Tile Roofing, Blend, 171 Piece Per SQ	1,526.82	252.41
<i>For >25 To 50, Deduct</i>	-61.32	
<i>For >50 To 75, Deduct</i>	-114.82	
<i>For >75 To 100, Deduct</i>	-158.10	
<i>For >100 To 200, Deduct</i>	-191.16	
<i>For >200, Deduct</i>	-214.00	
<i>For 20 Year Warranty, Add</i>	71.54	
07 32 13 00-0013 SQ Spanish Tile Roofing, Glazed White, 171 Piece Per SQ	1,809.09	252.41
<i>For >25 To 50, Deduct</i>	-78.25	
<i>For >50 To 75, Deduct</i>	-143.04	
<i>For >75 To 100, Deduct</i>	-194.79	
<i>For >100 To 200, Deduct</i>	-233.50	
<i>For >200, Deduct</i>	-259.16	
<i>For 20 Year Warranty, Add</i>	91.30	
07 32 13 00-0014 SQ Two Piece Mission Tile Roofing, 192 Piece Per SQ	2,209.99	395.67
<i>For >25 To 50, Deduct</i>	-85.12	
<i>For >50 To 75, Deduct</i>	-161.65	
<i>For >75 To 100, Deduct</i>	-223.99	
<i>For >100 To 200, Deduct</i>	-272.15	
<i>For >200, Deduct</i>	-306.12	
<i>For 20 Year Warranty, Add</i>	99.31	
07 32 13 00-0015 SQ One Piece Mission Tile Roofing, 75 Piece Per SQ	1,008.90	275.72
<i>For >25 To 50, Deduct</i>	-27.44	
<i>For >50 To 75, Deduct</i>	-59.53	
<i>For >75 To 100, Deduct</i>	-87.04	
<i>For >100 To 200, Deduct</i>	-109.97	
<i>For >200, Deduct</i>	-128.33	
<i>For 20 Year Warranty, Add</i>	32.02	

07 Thermal And Moisture Protection**07 30 Steep Slope Roofing****07 32 Roof Tiles**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 32 13 00-0016 SQ One Piece Mission Tile Roofing, 134 Piece Per SQ	1,351.72	395.67
For >25 To 50, Deduct	-33.62	
For >50 To 75, Deduct	-75.82	
For >75 To 100, Deduct	-112.42	
For >100 To 200, Deduct	-143.41	
For >200, Deduct	-168.80	
For 20 Year Warranty, Add	39.23	
07 32 16 Concrete Roof Tiles (07 32)		
07 32 16 00-0001 Corrugated Tiles And Shakes Nailed To Wood (07 32 16)		
Note: Includes 30 lb felt underlayment.		
07 32 16 00-0002 SQ 13" x 16-1/2" Concrete Roof Tile, 90/SQ, 950 LB/SQ, Earhtone Colors, Corrugated	1,209.33	417.95
For >50 To 75, Deduct	-14.93	
For >75 To 100, Deduct	-47.03	
For >100 To 200, Deduct	-82.87	
For >200, Deduct	-114.96	
For Steep Roof, Over 7 To 12, Add	267.53	
07 32 16 00-0003 SQ 13" x 16-1/2" Concrete Roof Tile, 90/SQ, 950 LB/SQ, Custom Blues, Corrugated	1,590.59	417.95
For >50 To 75, Deduct	-30.18	
For >75 To 100, Deduct	-73.72	
For >100 To 200, Deduct	-124.80	
For >200, Deduct	-168.34	
For Steep Roof, Over 7 To 12, Add	267.53	
07 32 16 00-0004 SQ 13" x 16-1/2" Concrete Roof Tile, 90/SQ, 950 LB/SQ, Custom Greens Corrugated	1,285.58	417.95
For >50 To 75, Deduct	-17.98	
For >75 To 100, Deduct	-52.37	
For >100 To 200, Deduct	-91.25	
For >200, Deduct	-125.64	
For Steep Roof, Over 7 To 12, Add	267.53	
07 32 16 00-0005 SQ 13" x 16-1/2" Concrete Roof Tile, 90/SQ, 950 LB/SQ, Colors, Shakes	1,216.64	373.95
For >50 To 75, Deduct	-18.75	
For >75 To 100, Deduct	-51.50	
For >100 To 200, Deduct	-88.95	
For >200, Deduct	-121.71	
For Steep Roof, Over 7 To 12, Add	239.36	
07 32 16 00-0006 Accessories (07 32 16)		
07 32 16 00-0007 EA Ridge And Hip, 10" X 16-1/2", 8 LB Each For Concrete Tile Roof	6.44	
07 32 16 00-0008 EA Rake, 6-1/2" X 16-3/4", 9 LB Each For Concrete Tile Roof	4.24	
07 32 16 00-0009 EA Mansard Hip, 10" X 16-1/2", 9.2 LB Each For Concrete Tile Roof	6.40	
07 32 16 00-0010 EA Hip Starter, 10" X 16-1/2", 10.5 LB Each For Concrete Tile Roof	7.33	
07 32 16 00-0011 EA 3 Or 4 Way Apex, 10" Each Side, 11.5 LB Each For Concrete Tile Roof	7.63	
07 34 Roofing Underlayment (07 30)		
07 34 00 00-0001 Mechanically Fastened, Roofing Underlayment (07 34)		
Note: Standard slope.		
07 34 00 00-0002 SQ 15 LB, Asphalt Saturated Organic Felt Roofing Underlayment, Mechanically Fastened	39.35	8.44
For Steep Roof, Over 7 To 12, Add	5.40	
For >50 To 75, Deduct	-0.90	
For >75 To 100, Deduct	-1.99	
For >100 To 200, Deduct	-3.32	
For >200, Deduct	-4.83	
07 34 00 00-0003 SQ 30 LB, Asphalt Saturated Organic Felt Roofing Underlayment, Mechanically Fastened	60.76	11.61
For Steep Roof, Over 7 To 12, Add	7.43	
For >50 To 75, Deduct	-1.50	
For >75 To 100, Deduct	-3.21	
For >100 To 200, Deduct	-5.29	
For >200, Deduct	-7.58	
07 34 00 00-0004 SQ 30 LB, Asphalt Saturated Organic Felt Shake Underlayment, Mechanically Fastened	67.83	11.61
For Steep Roof, Over 7 To 12, Add	7.43	
For >50 To 75, Deduct	-1.78	
For >75 To 100, Deduct	-3.70	
For >100 To 200, Deduct	-6.07	
For >200, Deduct	-8.57	
07 34 00 00-0005 SQ Fire Rated, Polypropylene Roofing Underlayment, Mechanically Fastened (Rex™ Synfelt)	75.27	17.59
For Steep Roof, Over 7 To 12, Add	11.25	
For >50 To 75, Deduct	-1.60	
For >75 To 100, Deduct	-3.69	
For >100 To 200, Deduct	-6.17	
For >200, Deduct	-9.13	
07 34 00 00-0006 SQ 17 Mil, Fire Rated, High Temperature, Coated Woven Synthetic Roofing Underlayment, Mechanically Fastened (TITANIUM™ UDL 25)	83.64	17.59
For Steep Roof, Over 7 To 12, Add	11.25	
For >50 To 75, Deduct	-1.94	
For >75 To 100, Deduct	-4.27	
For >100 To 200, Deduct	-7.09	
For >200, Deduct	-10.30	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 34 00 00-0007 SQ 25 Mil, Fire Rated, High Temperature, Coated Woven Synthetic Roofing Underlayment, Mechanically Fastened (TITANIUM™ UDL 30).....	97.44	17.59
<i>For Steep Roof, Over 7 To 12, Add</i>	11.25	
<i>For >50 To 75, Deduct</i>	-2.49	
<i>For >75 To 100, Deduct</i>	-5.24	
<i>For >100 To 200, Deduct</i>	-8.61	
<i>For >200, Deduct</i>	-12.23	
07 34 00 00-0008 SQ 30 Mil, Fire Rated, High Temperature, Coated Woven Synthetic Roofing Underlayment, Mechanically Fastened (TITANIUM™ UDL 50).....	90.54	17.59
<i>For Steep Roof, Over 7 To 12, Add</i>	11.25	
<i>For >50 To 75, Deduct</i>	-2.21	
<i>For >75 To 100, Deduct</i>	-4.76	
<i>For >100 To 200, Deduct</i>	-7.85	
<i>For >200, Deduct</i>	-11.27	
07 34 00 00-0009 Self-Adhering, Roofing Underlayment (07 34)		
Note: Standard slope.		
07 34 00 00-0010 SQ 48 Mil, Fire Rated, Polymeric Asphalt Surfaced, Fiberglass Mat Reinforced, Styrene-Butadiene-Styrene (SBS) Modified Roofing Underlayment, Self-Adhering (Owens Corning® WeatherLock® Mat)	157.17	21.33
<i>For Steep Roof, Over 7 To 12, Add</i>	13.64	
<i>For >50 To 75, Deduct</i>	-4.58	
<i>For >75 To 100, Deduct</i>	-9.08	
<i>For >100 To 200, Deduct</i>	-14.73	
<i>For >200, Deduct</i>	-20.30	
07 34 00 00-0011 SQ 60 Mil, Fire Rated, Granule Surfaced, Rubberized Asphalt Adhesive, Roofing Underlayment, Self-Adhering (Grace Basik®).....	237.16	21.33
<i>For Steep Roof, Over 7 To 12, Add</i>	13.64	
<i>For >50 To 75, Deduct</i>	-7.78	
<i>For >75 To 100, Deduct</i>	-14.68	
<i>For >100 To 200, Deduct</i>	-23.53	
<i>For >200, Deduct</i>	-31.50	
07 34 00 00-0012 SQ 53 Mil, Fire Rated, Granule Surfaced, Fiberglass Mat Reinforced, Styrene-Butadiene-Styrene (SBS) Modified Roofing Underlayment, Self-Adhering (Owens Corning® WeatherLock® G).....	167.06	21.33
<i>For Steep Roof, Over 7 To 12, Add</i>	13.64	
<i>For >50 To 75, Deduct</i>	-4.98	
<i>For >75 To 100, Deduct</i>	-9.78	
<i>For >100 To 200, Deduct</i>	-15.82	
<i>For >200, Deduct</i>	-21.68	
07 34 00 00-0013 SQ 65 Mil, Fire Rated, Polyester Non-Woven Fabric Surfaced, Fiberglass Mat Reinforced, Styrene-Butadiene-Styrene (SBS) Modified Roofing Underlayment, Self Adhering (Owens Corning® WeatherLock® Specialty Tile And Metal).....	157.17	21.33
<i>For Steep Roof, Over 7 To 12, Add</i>	13.64	
<i>For >50 To 75, Deduct</i>	-4.58	
<i>For >75 To 100, Deduct</i>	-9.08	
<i>For >100 To 200, Deduct</i>	-14.73	
<i>For >200, Deduct</i>	-20.30	
07 34 00 00-0014 SQ 45 Mil, Fire Rated, High Temperature, Synthetic Polymer Surfaced, Modified Rubberized Asphalt, Roofing Underlayment, Self-Adhering (TITANIUM™ PSU-30)	225.62	21.33
<i>For Steep Roof, Over 7 To 12, Add</i>	13.64	
<i>For >50 To 75, Deduct</i>	-7.32	
<i>For >75 To 100, Deduct</i>	-13.87	
<i>For >100 To 200, Deduct</i>	-22.26	
<i>For >200, Deduct</i>	-29.88	
07 34 00 00-0015 SQ 25 Mil, Fire Rated, Embossed Surface, Rubberized Asphalt Adhesive, High Density Cross Laminated Polyethylene Reinforcement, Roofing Underlayment, Self-Adhering (Grace Select).....	189.48	21.33
<i>For Steep Roof, Over 7 To 12, Add</i>	13.64	
<i>For >50 To 75, Deduct</i>	-5.87	
<i>For >75 To 100, Deduct</i>	-11.34	
<i>For >100 To 200, Deduct</i>	-18.28	
<i>For >200, Deduct</i>	-24.82	
07 34 00 00-0016 SQ 40 Mil, Fire Rated, Embossed Surface, Rubberized Asphalt Adhesive, High Density Cross Laminated Polyethylene Reinforcement, Roofing Underlayment, Self-Adhering (Grace Ice And Water Shield®).....	282.62	21.33
<i>For Steep Roof, Over 7 To 12, Add</i>	13.64	
<i>For >50 To 75, Deduct</i>	-9.60	
<i>For >75 To 100, Deduct</i>	-17.86	
<i>For >100 To 200, Deduct</i>	-28.53	
<i>For >200, Deduct</i>	-37.86	
07 34 00 00-0017 SQ 40 Mil, Fire Rated, High Temperature, Embossed Surface, Rubberized Asphalt Adhesive, High Density Cross Laminated Polyethylene Reinforcement, Roofing Underlayment, Self-Adhering (Grace Ice And Water Shield® HT)	323.42	21.33
<i>For Steep Roof, Over 7 To 12, Add</i>	13.64	
<i>For >50 To 75, Deduct</i>	-11.23	
<i>For >75 To 100, Deduct</i>	-20.72	
<i>For >100 To 200, Deduct</i>	-33.02	
<i>For >200, Deduct</i>	-43.57	
07 34 00 00-0018 SQ 30 Mil, Fire Rated, High Temperature, Fire Rated, Embossed Surface, Butyl Rubber Based Adhesive, High Density Cross Laminated Polyethylene Reinforcement, Roofing Underlayment, Self-Adhering (Grace Ultra)	476.50	21.33
<i>For Steep Roof, Over 7 To 12, Add</i>	13.64	
<i>For >50 To 75, Deduct</i>	-17.35	
<i>For >75 To 100, Deduct</i>	-31.44	
<i>For >100 To 200, Deduct</i>	-49.86	
<i>For >200, Deduct</i>	-65.00	

07 40 Roofing and Siding Panels (07)

07 Thermal And Moisture Protection**07 40 Roofing and Siding Panels****07 41 Roof Panels**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST**07 41 Roof Panels** (07 40)

Note: Includes standard fasteners, grommets, cleats for installation.

07 41 13 Metal Roof Panels (07 41)

07 41 13 00-0001	Exposed Fastener Metal Roofing (07 41 13)		
	Note: Includes 15 year warranty and all warranties are no dollar limit to include material and labor.		
07 41 13 00-0002	Galvanized Exposed Fastener Metal Roofing (07 41 13 00-0001)		
07 41 13 00-0003	Galvanized Steel Exposed Fastener Metal Roof Panels (07 41 13 00-0002)		
07 41 13 00-0004	SF 18 Gauge, Corrugated Or Ribbed, Galvanized Exposed Fastener Metal Roof Panels.....	9.20	3.22
	For Fluoropolymer (Kynar®) Coating, Add	1.31	
	For Steep Roof, Over 7 To 12, Add	1.65	
07 41 13 00-0005	SF 20 Gauge, Corrugated Or Ribbed, Galvanized Exposed Fastener Metal Roof Panels.....	8.49	3.22
	For Fluoropolymer (Kynar®) Coating, Add	1.31	
	For Steep Roof, Over 7 To 12, Add	1.65	
07 41 13 00-0006	SF 22 Gauge, Corrugated Or Ribbed, Galvanized Exposed Fastener Metal Roof Panels.....	7.99	3.22
	For Fluoropolymer (Kynar®) Coating, Add	1.31	
	For Steep Roof, Over 7 To 12, Add	1.65	
07 41 13 00-0007	SF 24 Gauge, Corrugated Or Ribbed, Galvanized Exposed Fastener Metal Roof Panels.....	7.50	3.22
	For Fluoropolymer (Kynar®) Coating, Add	1.31	
	For Steep Roof, Over 7 To 12, Add	1.65	
07 41 13 00-0008	SF 26 Gauge, Corrugated Or Ribbed, Galvanized Exposed Fastener Metal Roof Panels.....	7.09	3.22
	For Fluoropolymer (Kynar®) Coating, Add	1.31	
	For Steep Roof, Over 7 To 12, Add	1.65	
07 41 13 00-0009	SF 28 Gauge, Corrugated Or Ribbed, Galvanized Exposed Fastener Metal Roof Panels.....	6.74	3.22
	For Fluoropolymer (Kynar®) Coating, Add	1.31	
	For Steep Roof, Over 7 To 12, Add	1.65	
07 41 13 00-0010	SF 30 Gauge, Corrugated Or Ribbed, Galvanized Exposed Fastener Metal Roof Panels.....	6.60	3.22
	For Fluoropolymer (Kynar®) Coating, Add	1.31	
	For Steep Roof, Over 7 To 12, Add	1.65	
07 41 13 00-0011	Galvanized Exposed Fastener Metal Roof Accessories (07 41 13 00-0002)		
	See CSI section 07 41 13 00-0038 for accessories.		
07 41 13 00-0012	LF Ridge Flashing For Galvanized Steel Exposed Fastener Roofing.....	29.56	3.36
	For Steep Roof, Over 7 To 12, Add	4.34	
	For Fluoropolymer (Kynar®) Coating, Add	1.60	
07 41 13 00-0013	LF 9" To 12" Girth, Eave Or Gable Flashing For Galvanized Steel Exposed Fastener Roofing.....	18.53	2.20
	For Steep Roof, Over 7 To 12, Add	2.89	
	For Fluoropolymer (Kynar®) Coating, Add	0.95	
07 41 13 00-0014	LF Valley Flashing For Galvanized Steel Exposed Fastener Roofing.....	35.85	3.36
	For Steep Roof, Over 7 To 12, Add	4.34	
	For Fluoropolymer (Kynar®) Coating, Add	2.23	
07 41 13 00-0015	LF Hip Flashing For Galvanized Steel Exposed Fastener Roofing.....	30.14	3.36
	For Steep Roof, Over 7 To 12, Add	4.34	
	For Fluoropolymer (Kynar®) Coating, Add	1.66	
07 41 13 00-0016	Aluminum Exposed Fastener Metal Roofing (07 41 13 00-0001)		
07 41 13 00-0017	Aluminum Exposed Fastener Metal Roof Panels (07 41 13 00-0016)		
07 41 13 00-0018	SF 0.0155", Corrugated Or Ribbed, Aluminum Exposed Fastener Metal Roof Panels.....	6.74	3.22
	For Fluoropolymer (Kynar®) Coating, Add	1.31	
	For Steep Roof, Over 7 To 12, Add	1.65	
07 41 13 00-0019	SF 0.018", Corrugated Or Ribbed, Aluminum Exposed Fastener Metal Roof Panels.....	7.00	3.22
	For Fluoropolymer (Kynar®) Coating, Add	1.31	
	For Steep Roof, Over 7 To 12, Add	1.65	
07 41 13 00-0020	SF 0.024", Corrugated Or Ribbed, Aluminum Exposed Fastener Metal Roof Panels.....	7.61	3.22
	For Fluoropolymer (Kynar®) Coating, Add	1.31	
	For Steep Roof, Over 7 To 12, Add	1.65	
07 41 13 00-0021	SF 0.032", Corrugated Or Ribbed, Aluminum Exposed Fastener Metal Roof Panels.....	8.42	3.22
	For Fluoropolymer (Kynar®) Coating, Add	1.31	
	For Steep Roof, Over 7 To 12, Add	1.65	
07 41 13 00-0022	SF 0.040", Corrugated Or Ribbed, Aluminum Exposed Fastener Metal Roof Panels.....	9.23	3.22
	For Fluoropolymer (Kynar®) Coating, Add	1.31	
	For Steep Roof, Over 7 To 12, Add	1.65	
07 41 13 00-0023	SF 0.050", Corrugated Or Ribbed, Aluminum Exposed Fastener Metal Roof Panels.....	10.24	3.22
	For Fluoropolymer (Kynar®) Coating, Add	1.31	
	For Steep Roof, Over 7 To 12, Add	1.65	
07 41 13 00-0024	Aluminum Exposed Fastener Metal Roof Accessories (07 41 13 00-0016)		
07 41 13 00-0025	LF Ridge Flashing For Aluminum Exposed Fastener Metal Roofing.....	33.42	3.36
	For Steep Roof, Over 7 To 12, Add	4.34	
	For Fluoropolymer (Kynar®) Coating, Add	1.99	
07 41 13 00-0026	LF 9" To 12" Girth, Eave Or Gable Flashing For Aluminum Exposed Fastener Metal Roofing.....	20.75	2.33
	For Steep Roof, Over 7 To 12, Add	2.89	
	For Fluoropolymer (Kynar®) Coating, Add	1.17	
07 41 13 00-0027	LF Valley Flashing For Aluminum Exposed Fastener Metal Roofing.....	41.28	3.36
	For Steep Roof, Over 7 To 12, Add	4.34	
	For Fluoropolymer (Kynar®) Coating, Add	2.77	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 41 13 00-0028 LF Hip Flashing For Aluminum Exposed Fastener Metal Roofing <i>For Steep Roof, Over 7 To 12, Add</i> <i>For Fluoropolymer (Kynar®) Coating, Add</i>	34.14 4.34 2.06	3.36
07 41 13 00-0029 Standing Seam Roofs <small>(07 41 13)</small> Note: Includes all profiles of vertical leg and batten style standing seam roofing. Includes all clips, neoprene closures, metal closures, battens, tape sealer, tube sealant, fasteners, vent material, panel starters and cleats. Based on Garland R-Mer Clad or R-Mer Seam architectural roofing, R-Mer Loc architectural/structural roofing, and R-Mer Span structural roofing. Architectural roofing requires a solid substrate and underlayment, requires a minimum 3:12 pitch, and includes a 20 year no dollar limit warranty. Architectural/structural roofing does not require a solid substrate or underlayment, requires a minimum 3:12 pitch, and includes a 25 year no dollar limit warranty. Structural roofing does not require a solid substrate or underlayment, requires a minimum 1/4" per foot slope, and includes a 25 year no dollar limit warranty.		
07 41 13 00-0030 Galvanized Steel Standing Seam Concealed Fastener Roofing <small>(07 41 13 00-0029)</small> Note: All steel is galvanized G90 rated or galvalume®. Factory paint finish is Kynar 500®, Hylar 5000® or equal polyvinylidene fluoride (PVDF) finish.		
07 41 13 00-0031 Galvanized Steel Standing Seam Concealed Fastener Roofing <small>(07 41 13 00-0030)</small>		
07 41 13 00-0032 SF Architectural 24 Gauge Galvanized Steel Standing Seam Concealed Fastener Roofing <i>For Steep Roof, Over 6 To 12, Add</i> <i>For Panels <16" Wide, Add</i> <i>For 140 MPH Wind Load, Add</i> <i>For Up To 1,500, Add</i> <i>For >1,500 To 5,000, Add</i> <i>For >5,000 To 10,000, Add</i>	14.13 2.05 1.97 0.83 3.53 2.12 0.35	3.43
07 41 13 00-0033 SF Architectural 22 Gauge Galvanized Steel Standing Seam Concealed Fastener Roofing <i>For Steep Roof, Over 6 To 12, Add</i> <i>For Panels <16" Wide, Add</i> <i>For 140 MPH Wind Load, Add</i> <i>For Up To 1,500, Add</i> <i>For >1,500 To 5,000, Add</i> <i>For >5,000 To 10,000, Add</i>	14.82 2.05 2.01 0.84 3.71 2.22 0.37	3.43
07 41 13 00-0034 SF Architectural/Structural 24 Gauge Galvanized Steel Standing Seam Concealed Fastener Roofing <i>For Steep Roof, Over 6 To 12, Add</i> <i>For Panels <16" Wide, Add</i> <i>For 140 MPH Wind Load, Add</i> <i>For Up To 1,500, Add</i> <i>For >1,500 To 5,000, Add</i> <i>For >5,000 To 10,000, Add</i>	13.53 2.05 1.94 0.82 3.38 2.03 0.34	3.43
07 41 13 00-0035 SF Architectural/Structural 22 Gauge Galvanized Steel Standing Seam Concealed Fastener Roofing <i>For Steep Roof, Over 6 To 12, Add</i> <i>For Panels <16" Wide, Add</i> <i>For 140 MPH Wind Load, Add</i> <i>For Up To 1,500, Add</i> <i>For >1,500 To 5,000, Add</i> <i>For >5,000 To 10,000, Add</i>	13.77 2.05 1.95 0.82 3.44 2.07 0.34	3.43
07 41 13 00-0036 SF Structural 24 Gauge Galvanized Steel Standing Seam Concealed Fastener Roofing <i>For Steep Roof, Over 6 To 12, Add</i> <i>For Panels <16" Wide, Add</i> <i>For 140 MPH Wind Load, Add</i> <i>For Up To 1,500, Add</i> <i>For >1,500 To 5,000, Add</i> <i>For >5,000 To 10,000, Add</i>	14.04 2.05 1.97 0.83 3.51 2.11 0.35	3.43
07 41 13 00-0037 SF Structural 22 Gauge Galvanized Steel Standing Seam Concealed Fastener Roofing <i>For Steep Roof, Over 6 To 12, Add</i> <i>For Panels <16" Wide, Add</i> <i>For 140 MPH Wind Load, Add</i> <i>For Up To 1,500, Add</i> <i>For >1,500 To 5,000, Add</i> <i>For >5,000 To 10,000, Add</i>	15.04 2.05 2.02 0.85 3.76 2.26 0.38	3.43
07 41 13 00-0038 Accessories For Galvanized Steel Standing Seam Roofing <small>(07 41 13 00-0030)</small>		
07 41 13 00-0039 LF Ridge Flashing For Galvanized Steel Standing Seam Concealed Fastener Roofing <i>For Steep Roof, Over 6 To 12, Add</i> <i>For 140 MPH Wind Load, Add</i>	31.16 4.07 1.71	3.36
07 41 13 00-0040 LF 9" To 12" Girth, Eave Or Gable Flashing For Galvanized Steel Standing Seam Concealed Fastener Roofing <i>For Steep Roof, Over 6 To 12, Add</i> <i>For 140 MPH Wind Load, Add</i>	19.48 2.71 1.11	2.33
07 41 13 00-0041 LF Valley Flashing For Galvanized Steel Standing Seam Concealed Fastener Roofing <i>For Steep Roof, Over 6 To 12, Add</i> <i>For 140 MPH Wind Load, Add</i>	38.08 4.07 1.85	3.36
07 41 13 00-0042 LF Hip Flashing For Galvanized Steel Standing Seam Concealed Fastener Roofing <i>For Steep Roof, Over 6 To 12, Add</i> <i>For 140 MPH Wind Load, Add</i>	31.79 4.07 1.72	3.36
07 41 13 00-0043 Aluminum Standing Seam Concealed Fastener Roofing <small>(07 41 13 00-0029)</small> Note: Factory paint finish is Kynar 500®, Hylar 5000® or equal polyvinylidene fluoride (PVDF) finish.		
07 41 13 00-0044 Aluminum Standing Seam Concealed Fastener Roofing <small>(07 41 13 00-0043)</small>		

07 Thermal And Moisture Protection**07 40 Roofing and Siding Panels****07 41 Roof Panels**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 41 13 00-0045	SF		Architectural 0.032" Aluminum Standing Seam Concealed Fastener Roofing.....	14.61	3.43
			<i>For Steep Roof, Over 6 To 12, Add</i>	2.05	
			<i>For Panels <16" Wide, Add</i>	2.00	
			<i>For 140 MPH Wind Load, Add</i>	0.84	
			<i>For Up To 1,500, Add</i>	3.65	
			<i>For >1,500 To 5,000, Add</i>	2.19	
			<i>For >5,000 To 10,000, Add</i>	0.37	
07 41 13 00-0046	SF		Architectural 0.040" Aluminum Standing Seam Concealed Fastener Roofing.....	15.20	3.43
			<i>For Steep Roof, Over 6 To 12, Add</i>	2.05	
			<i>For Panels <16" Wide, Add</i>	2.03	
			<i>For 140 MPH Wind Load, Add</i>	0.85	
			<i>For Up To 1,500, Add</i>	3.80	
			<i>For >1,500 To 5,000, Add</i>	2.28	
			<i>For >5,000 To 10,000, Add</i>	0.38	
07 41 13 00-0047	SF		Architectural/Structural Or Structural 0.032" Aluminum Standing Seam Concealed Fastener Roofing	14.28	3.43
			<i>For Steep Roof, Over 6 To 12, Add</i>	2.05	
			<i>For Panels <16" Wide, Add</i>	1.98	
			<i>For 140 MPH Wind Load, Add</i>	0.83	
			<i>For Up To 1,500, Add</i>	3.57	
			<i>For >1,500 To 5,000, Add</i>	2.14	
			<i>For >5,000 To 10,000, Add</i>	0.36	
07 41 13 00-0048	SF		Architectural/Structural Or Structural 0.040" Aluminum Standing Seam Concealed Fastener Roofing	15.36	3.43
			<i>For Steep Roof, Over 6 To 12, Add</i>	2.05	
			<i>For Panels <16" Wide, Add</i>	2.03	
			<i>For 140 MPH Wind Load, Add</i>	0.85	
			<i>For Up To 1,500, Add</i>	3.84	
			<i>For >1,500 To 5,000, Add</i>	2.30	
			<i>For >5,000 To 10,000, Add</i>	0.38	
07 41 13 00-0049			Accessories For Aluminum Standing Seam Roofing (07 41 13 00-0043)		
07 41 13 00-0050	LF		Ridge Flashing For Aluminum Standing Seam Concealed Fastener Roofing.....	35.40	3.36
			<i>For Steep Roof, Over 6 To 12, Add</i>	4.07	
			<i>For 140 MPH Wind Load, Add</i>	1.79	
07 41 13 00-0051	LF		9" To 12" Girth, Eave Or Gable Flashing For Aluminum Standing Seam Concealed Fastener Roofing	21.92	2.33
			<i>For Steep Roof, Over 6 To 12, Add</i>	2.71	
			<i>For 140 MPH Wind Load, Add</i>	1.16	
07 41 13 00-0052	LF		Valley Flashing For Aluminum Standing Seam Concealed Fastener Roofing	44.05	3.36
			<i>For Steep Roof, Over 6 To 12, Add</i>	4.07	
			<i>For 140 MPH Wind Load, Add</i>	1.97	
07 41 13 00-0053	LF		Hip Flashing For Aluminum Standing Seam Concealed Fastener Roofing.....	36.19	3.36
			<i>For Steep Roof, Over 6 To 12, Add</i>	4.07	
			<i>For 140 MPH Wind Load, Add</i>	1.81	
07 41 13 00-0054			Stainless Steel Standing Seam Concealed Fastener Roofing (07 41 13 00-0029)		
07 41 13 00-0055			Stainless Steel Standing Seam Concealed Fastener Roofing (07 41 13 00-0054)		
07 41 13 00-0056	SF		Architectural 24 Gauge T304 Stainless Steel Standing Seam Concealed Fastener Roofing	27.05	4.11
			<i>For Steep Roof, Over 6 To 12, Add</i>	3.08	
			<i>For Panels <16" Wide, Add</i>	3.25	
			<i>For 140 MPH Wind Load, Add</i>	1.36	
			<i>For Up To 1,500, Add</i>	6.76	
			<i>For >1,500 To 5,000, Add</i>	4.06	
			<i>For >5,000 To 10,000, Add</i>	0.68	
07 41 13 00-0057	SF		Architectural 22 Gauge T304 Stainless Steel Standing Seam Concealed Fastener Roofing	30.62	4.11
			<i>For Steep Roof, Over 6 To 12, Add</i>	3.08	
			<i>For Panels <16" Wide, Add</i>	3.43	
			<i>For 140 MPH Wind Load, Add</i>	1.43	
			<i>For Up To 1,500, Add</i>	7.66	
			<i>For >1,500 To 5,000, Add</i>	4.59	
			<i>For >5,000 To 10,000, Add</i>	0.77	
07 41 13 00-0058	SF		Architectural 24 Gauge T316 Stainless Steel Standing Seam Concealed Fastener Roofing	34.85	4.11
			<i>For Steep Roof, Over 6 To 12, Add</i>	3.08	
			<i>For Panels <16" Wide, Add</i>	3.64	
			<i>For 140 MPH Wind Load, Add</i>	1.52	
			<i>For Up To 1,500, Add</i>	8.71	
			<i>For >1,500 To 5,000, Add</i>	5.23	
			<i>For >5,000 To 10,000, Add</i>	0.87	
07 41 13 00-0059	SF		Architectural 22 Gauge T316 Stainless Steel Standing Seam Concealed Fastener Roofing	40.28	4.11
			<i>For Steep Roof, Over 6 To 12, Add</i>	3.08	
			<i>For Panels <16" Wide, Add</i>	3.91	
			<i>For 140 MPH Wind Load, Add</i>	1.63	
			<i>For Up To 1,500, Add</i>	10.07	
			<i>For >1,500 To 5,000, Add</i>	6.04	
			<i>For >5,000 To 10,000, Add</i>	1.01	
07 41 13 00-0060			Accessories For Stainless Steel Standing Seam Concealed Fastener Roofing (07 41 13 00-0054)		
07 41 13 00-0061	LF		Ridge Flashing For Stainless Steel Standing Seam Concealed Fastener Roofing.....	80.51	3.75
			<i>For Steep Roof, Over 6 To 12, Add</i>	4.49	
			<i>For 140 MPH Wind Load, Add</i>	2.81	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 41 13 00-0062 LF 9" To 12" Girth, Eave Or Gable Flashing For Stainless Steel Standing Seam Concealed Fastener Roofing <i>For Steep Roof, Over 6 To 12, Add For 140 MPH Wind Load, Add</i>	43.73 2.98 1.67	2.46
07 41 13 00-0063 LF Valley Flashing For Stainless Steel Standing Seam Concealed Fastener Roofing..... <i>For Steep Roof, Over 6 To 12, Add For 140 MPH Wind Load, Add</i>	110.38 4.46 3.40	3.75
07 41 13 00-0064 LF Hip Flashing For Stainless Steel Standing Seam Concealed Fastener Roofing..... <i>For Steep Roof, Over 6 To 12, Add For 140 MPH Wind Load, Add</i>	82.88 4.49 2.86	3.75
07 41 13 00-0065 Metal Roof Surfacing (07 41 13)		
07 41 13 00-0066 SF Acrylic, Metal Roof Primer, One Coat..... <i>For Steep Roof, Over 7 To 12, Add</i>	0.49 0.07	
07 41 13 00-0067 SF Acrylic Elastomeric, Surface Or Base Coating For Metal Roofing, One Coat..... <i>Note: 55% solids by volume. For Steep Roof, Over 7 To 12, Add</i>	0.74 0.07	
07 41 33 Plastic Roof Panels (07 41)		
07 41 33 00-0001 Polyvinyl Chloride (PVC) Roofing Panels (07 41 33)		
07 41 33 00-0002 Polyvinyl Chloride (PVC) Roofing Panels (07 41 33 00-0001)		
07 41 33 00-0003 SF Solid Polyvinyl Chloride (PVC) Roofing Panels, 8" Wide.....	8.62	2.35
07 41 33 00-0004 SF Solid Polyvinyl Chloride (PVC) Roofing Panels, 10" Wide.....	8.44	2.11
07 41 33 00-0005 SF Solid Polyvinyl Chloride (PVC) Roofing Panels, Double 8" Wide.....	9.06	2.35
07 41 33 00-0006 SF Solid Polyvinyl Chloride (PVC) Roofing Panels, Double 10" Wide.....	8.82	2.11
07 41 33 00-0007 Polyvinyl Chloride (PVC) Roofing Accessories (07 41 33 00-0001)		
07 41 33 00-0008 LF 1" "J" Channel, Starter Strip Trim.....	4.88	1.76
07 41 33 00-0009 LF 3-1/2" "J" Channel, Starter Strip Trim.....	8.24	1.76
07 41 33 00-0010 LF Outside Corner Post, 7/8" Pocket.....	9.20	1.76
07 41 33 00-0011 LF Inside Corner Post, 7/8" Pocket.....	6.60	1.76
07 41 33 00-0012 Fiberglass Roofing Panel (07 41 33)		
07 41 33 00-0013 Corrugated Panels (07 41 33 00-0012)		
07 41 33 00-0014 SF 8 Ounce Corrugated Fiberglass Panel.....	7.15	1.88
07 41 33 00-0015 SF 12 Ounce Corrugated Fiberglass Panel.....	8.24	1.88
07 42 Wall Panels (07 40)		
07 42 13 Metal Wall Panels (07 42)		
07 42 13 19 Insulated Metal Wall Panels (07 42 13)		
07 42 13 19-0001 Insulated Panels For Sash/Window Replacement (07 42 13 19) <i>Note: Porcelain or polymer finish on aluminum panel with polystyrene core.</i>		
07 42 13 19-0002 SF 1" Insulated Panel For Sash Or Window Replacement <i>For Non-Insulated Panels, Deduct</i>	25.98 -3.94	5.08
07 42 13 19-0003 SF 1-1/4" Insulated Panel For Sash Or Window Replacement <i>For Non-Insulated Panels, Deduct</i>	28.15 -4.21	5.71
07 42 13 19-0004 SF 1-3/4" Insulated Panel For Sash Or Window Replacement <i>For Non-Insulated Panels, Deduct</i>	30.12 -4.48	6.35
07 42 13 19-0005 SF 2-1/4" Insulated Panel For Sash Or Window Replacement <i>For Non-Insulated Panels, Deduct</i>	32.22 -4.75	6.61
07 42 13 19-0006 SF 3-1/4" Insulated Panel For Sash Or Window Replacement <i>For Non-Insulated Panels, Deduct</i>	36.50 -5.52	7.24
07 42 13 19-0007 SF 4-1/4" Insulated Panel For Sash Or Window Replacement <i>For Non-Insulated Panels, Deduct</i>	42.35 -6.62	8.00
07 42 13 23 Metal Composite Material Wall Panels (07 42 13)		
07 42 13 23-0001 24 Gauge, Galvanized Steel Insulated Tongue And Groove Metal Siding Panels (07 42 13 23) <i>Note: G-90 galvanized steel, 24 gauge exterior face and 24 gauge interior liner. Galvalume® AZ-55 coating designation with texture. Non-CFC polyurethane foam core. Standard color on exterior and interior panels. CF Mesa Profile wall panels as manufactured by Metl-Span Corporation.</i>		
07 42 13 23-0002 SF 2" Polyurethane Foam, 24 Gauge (Each Side), Galvanized Steel Insulated Tongue And Groove Metal Siding Panels <i>For AZ-50 Aluminum-Zinc Coated Exterior, Add For Premium Exterior Colors, Add</i>	24.08 0.24 0.12	2.97
07 42 13 23-0003 SF 2-1/2" Polyurethane Foam, 24 Gauge (Each Side), Galvanized Steel Insulated Tongue And Groove Metal Siding Panels <i>For AZ-50 Aluminum-Zinc Coated Exterior, Add For Premium Exterior Colors, Add</i>	27.06 0.24 0.12	3.36

07 Thermal And Moisture Protection**07 40 Roofing and Siding Panels****07 42 Wall Panels**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 42 13 23-0004	SF		3" Polyurethane Foam, 24 Gauge (Each Side), Galvanized Steel Insulated Tongue And Groove Metal Siding Panels.....	29.59	3.81
			<i>For AZ-50 Aluminum-Zinc Coated Exterior, Add</i>	0.24	
			<i>For Premium Exterior Colors, Add</i>	0.12	
07 42 13 23-0005	SF		4" Polyurethane Foam, 24 Gauge (Each Side), Galvanized Steel Insulated Tongue And Groove Metal Siding Panels.....	33.07	5.04
			<i>For AZ-50 Aluminum-Zinc Coated Exterior, Add</i>	0.24	
			<i>For Premium Exterior Colors, Add</i>	0.12	
07 42 63 Fabricated Wall Panel Assemblies (07 42)					
07 42 63 00-0001			Insulated Freezer And Chiller Panels (07 42 63) Note: Excludes suspension system for ceiling support.		
07 42 63 00-0002			Polyurethane Sandwich Panel (07 42 63 00-0001) Note: With 22 gauge galvanized sheet metal face excludes painting.		
07 42 63 00-0003	SF		2" 22 Gauge Freezer Panel Sheet Metal Both Faces	28.01	2.39
07 42 63 00-0004	SF		3" 22 Gauge Freezer Panel Sheet Metal Both Faces	29.67	2.39
07 42 63 00-0005	SF		4" 22 Gauge Freezer Panel Sheet Metal Both Faces	35.34	2.39
07 42 63 00-0006	SF		5" 22 Gauge Freezer Panel Sheet Metal Both Faces	38.27	2.54
07 42 63 00-0007	SF		6" 22 Gauge Freezer Panel Sheet Metal Both Faces	40.65	2.54
07 42 63 00-0008	SF		2" 22 Gauge Freezer Panel Sheet Metal One Face (Liner)	25.12	1.97
07 42 63 00-0009	SF		3" 22 Gauge Freezer Panel Sheet Metal One Face (Liner)	27.34	1.97
07 42 63 00-0010	SF		4" 22 Gauge Freezer Panel Sheet Metal One Face (Liner)	32.97	2.11
07 42 63 00-0011	SF		5" 22 Gauge Freezer Panel Sheet Metal One Face (Liner)	31.98	2.11
07 42 63 00-0012	SF		6" 22 Gauge Freezer Panel Sheet Metal One Face (Liner)	37.64	2.11
07 42 63 00-0013			Polyurethane Sandwich Panel (07 42 63 00-0001) Note: With .040 aluminum baked enamel finish.		
07 42 63 00-0014	SF		2" Freezer Panel 0.040" Aluminum Finish Both Faces	19.04	2.39
07 42 63 00-0015	SF		3" Freezer Panel 0.040" Aluminum Finish Both Faces	20.34	2.39
07 42 63 00-0016	SF		4" Freezer Panel 0.040" Aluminum Finish Both Faces	23.72	2.39
07 42 63 00-0017	SF		5" Freezer Panel 0.040" Aluminum Finish Both Faces	25.82	2.54
07 42 63 00-0018	SF		6" Freezer Panel 0.040" Aluminum Finish Both Faces	27.29	2.54
07 42 63 00-0019	SF		2" Freezer Panel 0.040" Aluminum Finish One Face (Liner Panel)	17.06	1.97
07 42 63 00-0020	SF		3" Freezer Panel 0.040" Aluminum Finish One Face (Liner Panel)	18.37	1.97
07 42 63 00-0021	SF		4" Freezer Panel 0.040" Aluminum Finish One Face (Liner Panel)	19.75	2.11
07 42 63 00-0022	SF		5" Freezer Panel 0.040" Aluminum Finish One Face (Liner Panel)	23.13	2.11
07 42 63 00-0023	SF		6" Freezer Panel 0.040" Aluminum Finish One Face (Liner Panel)	25.19	2.11
07 42 93 Soffit Panels (07 42)					
07 42 93 00-0001			Aluminum Soffit And Fascia (07 42 93) Note: Excludes J-channel.		
07 42 93 00-0002	LF		6" Overhang, 0.019" Thick, Solid Or Vented Aluminum Soffit.....	5.07	1.78
			<i>For 0.015" Thick, Deduct</i>	-0.09	
07 42 93 00-0003	LF		10" Overhang, 0.019" Thick, Solid Or Vented Aluminum Soffit.....	6.24	1.87
			<i>For 0.015" Thick, Deduct</i>	-0.18	
07 42 93 00-0004	LF		1" Overhang, 0.019" Thick, Solid Or Vented Aluminum Soffit	6.84	1.92
			<i>For 0.015" Thick, Deduct</i>	-0.20	
07 42 93 00-0005	LF		1'-6" Overhang, 0.019" Thick, Solid Or Vented Aluminum Soffit.....	8.53	2.02
			<i>For 0.015" Thick, Deduct</i>	-0.31	
07 42 93 00-0006	LF		2' Overhang, 0.019" Thick, Solid Or Vented Aluminum Soffit	10.43	2.21
			<i>For 0.015" Thick, Deduct</i>	-0.42	
07 42 93 00-0007	LF		3' Overhang, 0.019" Thick, Solid Or Vented Aluminum Soffit	13.87	2.45
			<i>For 0.015" Thick, Deduct</i>	-0.64	
07 42 93 00-0008	LF		4' Overhang, 0.019" Thick, Solid Or Vented Aluminum Soffit	17.36	2.69
			<i>For 0.015" Thick, Deduct</i>	-0.86	
07 42 93 00-0009	LF		5' Overhang, 0.019" Thick, Solid Or Vented Aluminum Soffit	20.89	2.95
			<i>For 0.015" Thick, Deduct</i>	-1.08	
07 42 93 00-0010	LF		4" Exposure, 0.024" Thick, Aluminum Fascia	5.93	1.73
07 42 93 00-0011	LF		6" Exposure, 0.024" Thick, Aluminum Fascia	6.48	1.78
07 42 93 00-0012	LF		8" Exposure, 0.024" Thick, Aluminum Fascia	7.59	1.83
07 42 93 00-0013	LF		10" Exposure, 0.024" Thick, Aluminum Fascia	8.78	1.87
07 46 Siding (07 40)					
07 46 16			Aluminum Siding (07 46) Note: Includes fasteners, all necessary furring strips, trim for corners, windows and doors.		
07 46 16 00-0001			Aluminum Coil Stock Cladding (07 46 16) Note: Per SF of board, includes overlappage.		
07 46 16 00-0002	SF		0.016" Thick, Aluminum Clad Siding.....	14.04	4.76
07 46 16 00-0003	SF		0.019" Thick, Aluminum Clad Siding.....	14.21	4.76
07 46 16 00-0004	SF		0.024" Thick, Aluminum Clad Siding.....	14.49	4.76
07 46 16 00-0005			Aluminum Siding Panels (07 46 16)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 46 16 00-0006 Corrugated Aluminum Siding Panels <small>(07 46 16 00-0005)</small>		
<i>Note: Includes factory applied polyvinylidene fluoride (PVDF) paint finish.</i>		
07 46 16 00-0007 SF 0.019", Painted Finish, Corrugated Aluminum Siding Panel.....	9.57	2.58
07 46 16 00-0008 SF 0.021", Painted Finish, Corrugated Aluminum Siding Panel.....	9.96	2.58
07 46 16 00-0009 SF 0.024", Painted Finish, Corrugated Aluminum Siding Panel.....	11.19	2.58
07 46 16 00-0010 SF 0.032", Painted Finish, Corrugated Aluminum Siding Panel.....	13.58	2.58
07 46 16 00-0011 V- Beam Aluminum Siding Panels <small>(07 46 16 00-0005)</small>		
<i>Note: Includes factory applied polyvinylidene fluoride (PVDF) paint finish.</i>		
07 46 16 00-0012 SF 0.032", Painted Finish, V- Beam Aluminum Siding Panel.....	13.48	2.58
07 46 16 00-0013 SF 0.040", Painted Finish, V- Beam Aluminum Siding Panel.....	15.09	2.58
07 46 16 00-0014 SF 0.050", Painted Finish, V- Beam Aluminum Siding Panel.....	18.90	2.58
07 46 16 00-0015 Box Ribbed Aluminum Siding Panels <small>(07 46 16 00-0005)</small>		
<i>Note: Includes factory applied polyvinylidene fluoride (PVDF) paint finish.</i>		
07 46 16 00-0016 SF 0.032", Painted Finish, Box Ribbed Aluminum Siding Panel.....	14.19	2.58
07 46 16 00-0017 SF 0.040", Painted Finish, Box Ribbed Aluminum Siding Panel.....	15.74	2.58
07 46 16 00-0018 SF 0.050", Painted Finish, Box Ribbed Aluminum Siding Panel.....	16.69	2.58
07 46 16 00-0019 Aluminum Siding Accessories <small>(07 46 16)</small>		
07 46 16 00-0020 LF 3/8" Pocket, Aluminum J-Channel.....	3.93	1.66
07 46 16 00-0021 LF 1/2" Pocket, Aluminum J-Channel.....	3.93	1.66
07 46 16 00-0022 LF 3/4" Pocket, Aluminum J-Channel.....	4.62	1.66
07 46 16 00-0023 LF 3/8" Pocket, Aluminum F-Channel.....	4.26	1.66
07 46 16 00-0024 LF 1/2" Pocket, Aluminum F-Channel.....	4.26	1.66
07 46 19 Steel Siding <small>(07 46)</small>		
<i>Note: Includes fasteners, all necessary furring strips, trim for corners, windows and doors.</i>		
07 46 19 00-0001 Steel Siding Panels <small>(07 46 19)</small>		
07 46 19 00-0002 Corrugated Steel Siding Panels <small>(07 46 19 00-0001)</small>		
<i>Note: Includes factory applied polyvinylidene fluoride (PVDF) paint finish.</i>		
07 46 19 00-0003 SF 20 Gauge, Painted Finish, Corrugated Steel Siding Panel.....	13.37	2.58
For Galvanized Instead Of Painted Steel, Add	2.05	
07 46 19 00-0004 SF 22 Gauge, Painted Finish, Corrugated Steel Siding Panel.....	12.31	2.58
For Galvanized Instead Of Painted Steel, Add	1.79	
07 46 19 00-0005 SF 24 Gauge, Painted Finish, Corrugated Steel Siding Panel.....	12.05	2.58
For Galvanized Instead Of Painted Steel, Add	1.72	
07 46 19 00-0006 SF 26 Gauge, Painted Finish, Corrugated Steel Siding Panel.....	8.93	2.58
For Galvanized Instead Of Painted Steel, Add	0.94	
07 46 19 00-0007 SF 28 Gauge, Painted Finish, Corrugated Steel Siding Panel.....	8.71	2.58
For Galvanized Instead Of Painted Steel, Add	0.89	
07 46 19 00-0008 SF 30 Gauge, Painted Finish, Corrugated Steel Siding Panel.....	8.57	2.58
For Galvanized Instead Of Painted Steel, Add	0.85	
07 46 19 00-0009 Box Ribbed Steel Siding Panels <small>(07 46 19 00-0001)</small>		
<i>Note: Includes factory applied polyvinylidene fluoride (PVDF) paint finish.</i>		
07 46 19 00-0010 SF 20 Gauge, Painted Finish, Box Ribbed Steel Siding Panel.....	12.58	2.58
For Galvanized Instead Of Painted Steel, Add	1.85	
07 46 19 00-0011 SF 22 Gauge, Painted Finish, Box Ribbed Steel Siding Panel.....	12.10	2.58
For Galvanized Instead Of Painted Steel, Add	1.73	
07 46 19 00-0012 SF 24 Gauge, Painted Finish, Box Ribbed Steel Siding Panel.....	11.78	2.58
For Galvanized Instead Of Painted Steel, Add	1.65	
07 46 19 00-0013 SF 26 Gauge, Painted Finish, Box Ribbed Steel Siding Panel.....	11.25	2.58
For Galvanized Instead Of Painted Steel, Add	1.52	
07 46 19 00-0014 SF 28 Gauge, Painted Finish, Box Ribbed Steel Siding Panel.....	10.12	2.58
For Galvanized Instead Of Painted Steel, Add	1.24	
07 46 19 00-0015 Clapboard Steel Siding Panels <small>(07 46 19 00-0001)</small>		
<i>Note: Includes factory applied polyvinylidene fluoride (PVDF) paint finish.</i>		
07 46 19 00-0016 SF 29 Gauge, Painted Finish, Clapboard Steel Siding Panel.....	10.45	1.29
07 46 23 Wood Siding <small>(07 46)</small>		
<i>Note: Includes fasteners, all necessary furring strips, trim for corners, windows and doors.</i>		
07 46 23 00-0001 Wood Lap Siding <small>(07 46 23)</small>		
07 46 23 00-0002 LF 8" Wide Rough Sawn Cedar Lap Siding.....	4.42	1.71
07 46 23 00-0003 LF 10" Wide Rough Sawn Cedar Lap Siding.....	4.97	1.82
07 46 23 00-0004 LF 12" Wide Rough Sawn Cedar Lap Siding.....	5.54	1.93
07 46 23 00-0005 LF 6" To 8" Wide Southern Yellow Pine Lap Siding, D Grade.....	4.72	1.71
07 46 23 00-0006 LF 6" To 8" Wide Spruce Lap Siding, #2 Or Better.....	5.24	1.71
07 46 23 00-0007 LF 6" To 8" Wide Western Red Cedar, B Grade Lap Siding.....	6.34	1.71
07 46 23 00-0008 LF 6" To 8" Wide Western Red Cedar, A Grade Lap Siding.....	6.78	1.71
07 46 23 00-0009 LF 6" To 8" Wide Clear Heart Redwood Lap Siding.....	6.16	1.71

07 Thermal And Moisture Protection**07 40 Roofing and Siding Panels****07 46 Siding**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 46 23 00-0010 LF 1" x 8" Cedar Round Or Flat Front Siding, Log Cabin.....	4.62	1.82
07 46 23 00-0011 LF 1" x 8" Cedar Beveled Siding, Channel, Rustic.....	4.62	1.82
07 46 23 00-0012 Tongue And Groove Siding (07 46 23)		
07 46 23 00-0013 SF 1" x 6" Tongue And Groove Southern Yellow Pine Siding	4.41	1.71
07 46 23 00-0014 SF 1" x 8" Tongue And Groove Southern Yellow Pine Siding	4.87	1.71
07 46 23 00-0015 SF 1" x 6" 105 Southern Yellow Pine Siding	4.52	1.71
07 46 23 00-0016 SF 1" x 8" 105 Southern Yellow Pine Siding	5.14	1.71
07 46 29 Plywood Siding (07 46)		
Note: Includes fasteners, all necessary furring strips, trim for corners, windows and doors.		
07 46 29 00-0001 T-111 Siding (07 46 29)		
07 46 29 00-0002 SF 5/8" T-111, Fine Grade Siding, Paint Ready Applied To Blackboard / Stud.....	3.03	0.89
For Pressure Treated, Add	0.18	
07 46 33 Plastic Siding (07 46)		
Note: Includes fasteners, all necessary furring strips, trim for corners, windows and doors.		
07 46 33 00-0001 Vinyl Siding (07 46 33)		
Note: Includes standard manufacturer's colors.		
07 46 33 00-0002 Vinyl Siding Panels (07 46 33 00-0001)		
Note: Excludes J-channels, starter strips and trim.		
07 46 33 00-0003 Horizontal Vinyl Siding Panels (07 46 33 00-0002)		
Note: Includes single, double or triple profiles. Includes traditional clapboard or dutch lap styles.		
07 46 33 00-0004 SF 7" Exposure, 0.044" Thick, Horizontal Vinyl Siding Panel.....	5.88	2.17
For 0.040" Thick, Deduct	-0.21	
For 0.042" Thick, Deduct	-0.08	
For 0.046" Thick, Add	0.64	
For Manufacturer's Custom Colors, Add	0.08	
07 46 33 00-0005 SF 8" Exposure, 0.044" Thick, Horizontal Vinyl Siding Panel.....	5.62	2.05
For 0.040" Thick, Deduct	-0.21	
For 0.042" Thick, Deduct	-0.08	
For 0.046" Thick, Add	0.64	
For Manufacturer's Custom Colors, Add	0.08	
07 46 33 00-0006 SF 9" Exposure, 0.044" Thick, Horizontal Vinyl Siding Panel.....	5.43	1.95
For 0.040" Thick, Deduct	-0.21	
For 0.042" Thick, Deduct	-0.08	
For 0.046" Thick, Add	0.64	
For Manufacturer's Custom Colors, Add	0.08	
07 46 33 00-0007 SF 10" Exposure, 0.044" Thick, Horizontal Vinyl Siding Panel.....	5.24	1.86
For 0.040" Thick, Deduct	-0.21	
For 0.042" Thick, Deduct	-0.08	
For 0.046" Thick, Add	0.64	
For Manufacturer's Custom Colors, Add	0.08	
07 46 33 00-0008 SF 12" Exposure, 0.044" Thick, Horizontal Vinyl Siding Panel.....	4.98	1.72
For 0.040" Thick, Deduct	-0.21	
For 0.042" Thick, Deduct	-0.08	
For 0.046" Thick, Add	0.64	
For Manufacturer's Custom Colors, Add	0.08	
07 46 33 00-0009 Vertical Vinyl Siding Panels (07 46 33 00-0002)		
07 46 33 00-0010 SF 7" Exposure, 0.048" Thick, Board And Batten, Vinyl Siding Panel.....	7.07	2.17
For Manufacturer's Custom Colors, Add	0.14	
07 46 33 00-0011 Vinyl Siding Accessories (07 46 33 00-0001)		
07 46 33 00-0012 LF 3/4" Pocket, Outside Corner Post For Vinyl Siding	7.23	1.66
For Manufacturer's Custom Colors, Add	0.19	
07 46 33 00-0013 LF 1-1/8" Pocket, Outside Corner Post For Vinyl Siding	13.19	1.66
For Manufacturer's Custom Colors, Add	0.49	
07 46 33 00-0014 LF 3/4" Pocket, Inside Corner Post For Vinyl Siding	5.73	1.66
For Manufacturer's Custom Colors, Add	0.12	
07 46 33 00-0015 LF 1-1/8" Pocket, Inside Corner Post For Vinyl Siding	6.99	1.66
For Manufacturer's Custom Colors, Add	0.18	
07 46 33 00-0016 LF 3/8" Pocket, J-Channel For Vinyl Siding	4.25	1.66
For Manufacturer's Custom Colors, Add	0.06	
07 46 33 00-0017 LF 1/2" Pocket, J-Channel For Vinyl Siding	3.97	1.66
For Manufacturer's Custom Colors, Add	0.05	
07 46 33 00-0018 LF 5/8" Pocket, J-Channel For Vinyl Siding	3.91	1.66
For Manufacturer's Custom Colors, Add	0.04	
07 46 33 00-0019 LF 3/4" Pocket, J-Channel For Vinyl Siding	4.09	1.66
For Manufacturer's Custom Colors, Add	0.05	
07 46 33 00-0020 LF 1" Pocket, J-Channel For Vinyl Siding	4.87	1.66
For Manufacturer's Custom Colors, Add	0.08	
07 46 33 00-0021 LF 1-1/4" Pocket, J-Channel For Vinyl Siding	5.30	1.66
For Manufacturer's Custom Colors, Add	0.10	
07 46 33 00-0022 LF 2-1/2" Pocket, J-Channel For Vinyl Siding	5.93	1.66
For Manufacturer's Custom Colors, Add	0.09	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 46 33 00-0023 LF 1/2" Pocket, F-Channel For Vinyl Siding..... <i>For Manufacturer's Custom Colors, Add</i>	4.05 0.07	1.66
07 46 33 00-0024 LF 3/4" Pocket, 3-1/2" Lineal Trim For Vinyl Siding <i>For Manufacturer's Custom Colors, Add</i>	9.20 0.23	2.30
07 46 33 00-0025 LF 3/4" Pocket, 5" Lineal Trim For Vinyl Siding..... <i>For Manufacturer's Custom Colors, Add</i>	9.62 0.25	2.30
07 46 33 00-0026 LF 1-1/8" Pocket, 3-1/2" Lineal Trim For Vinyl Siding <i>For Manufacturer's Custom Colors, Add</i>	10.55 0.30	2.30
07 46 33 00-0027 LF 3/8" Pocket, 1-7/8" H-Mold For Vinyl Siding..... <i>For Manufacturer's Custom Colors, Add</i>	5.49 0.11	1.66
07 46 33 00-0028 LF Vinyl Starter Strip For Vinyl Siding..... <i>For Manufacturer's Custom Colors, Add</i>	6.81 0.17	1.66
07 46 33 00-0029 LF Undersill Trim For Vinyl Siding..... <i>For Manufacturer's Custom Colors, Add</i>	5.86 0.13	1.66
07 46 33 00-0030 Vinyl Soffit And Fascia <small>(07 46 33 00-0001)</small> Note: Excludes J-channel.		
07 46 33 00-0031 LF 6" Overhang, 0.044" Thick, Solid Or Vented Vinyl Soffit..... <i>For 0.038" Thick, Deduct</i> <i>For 0.040" Thick, Deduct</i> <i>For Manufacturer's Custom Colors, Add</i>	4.97 -0.63 -0.54 0.07	1.78
07 46 33 00-0032 LF 10" Overhang, 0.044" Thick, Solid Or Vented Vinyl Soffit..... <i>For 0.038" Thick, Deduct</i> <i>For 0.040" Thick, Deduct</i> <i>For Manufacturer's Custom Colors, Add</i>	6.08 -1.06 -0.90 0.12	1.87
07 46 33 00-0033 LF 1' Overhang, 0.044" Thick, Solid Or Vented Vinyl Soffit <i>For 0.038" Thick, Deduct</i> <i>For 0.040" Thick, Deduct</i> <i>For Manufacturer's Custom Colors, Add</i>	6.65 -1.29 -1.08 0.14	1.92
07 46 33 00-0034 LF 1'-6" Overhang, 0.044" Thick, Solid Or Vented Vinyl Soffit <i>For 0.038" Thick, Deduct</i> <i>For 0.040" Thick, Deduct</i> <i>For Manufacturer's Custom Colors, Add</i>	8.24 -1.92 -1.62 0.21	2.02
07 46 33 00-0035 LF 2' Overhang, 0.044" Thick, Solid Or Vented Vinyl Soffit <i>For 0.038" Thick, Deduct</i> <i>For 0.040" Thick, Deduct</i> <i>For Manufacturer's Custom Colors, Add</i>	10.05 -2.58 -2.15 0.28	2.21
07 46 33 00-0036 LF 3' Overhang, 0.044" Thick, Solid Or Vented Vinyl Soffit <i>For 0.038" Thick, Deduct</i> <i>For 0.040" Thick, Deduct</i> <i>For Manufacturer's Custom Colors, Add</i>	13.30 -3.87 -3.23 0.42	2.45
07 46 33 00-0037 LF 4' Overhang, 0.044" Thick, Solid Or Vented Vinyl Soffit <i>For 0.038" Thick, Deduct</i> <i>For 0.040" Thick, Deduct</i> <i>For Manufacturer's Custom Colors, Add</i>	16.60 -5.15 -4.33 0.56	2.69
07 46 33 00-0038 LF 5' Overhang, 0.044" Thick, Solid Or Vented Vinyl Soffit <i>For 0.038" Thick, Deduct</i> <i>For 0.040" Thick, Deduct</i> <i>For Manufacturer's Custom Colors, Add</i>	19.94 -6.44 -5.40 0.70	2.95
07 46 33 00-0039 LF 4" Exposure, Vinyl Fascia <i>For Manufacturer's Custom Colors, Add</i>	5.17 0.08	1.73
07 46 33 00-0040 LF 6" Exposure, Vinyl Fascia <i>For Manufacturer's Custom Colors, Add</i>	5.75 0.11	1.78
07 46 33 00-0041 LF 8" Exposure, Vinyl Fascia <i>For Manufacturer's Custom Colors, Add</i>	5.68 0.10	1.83
07 46 33 00-0042 LF 10" Exposure, Vinyl Fascia <i>For Manufacturer's Custom Colors, Add</i>	6.49 0.14	1.87
07 46 33 00-0043 Fiberglass Siding <small>(07 46 33)</small>		
07 46 33 00-0044 Corrugated Panels <small>(07 46 33 00-0043)</small>		
07 46 33 00-0045 SF 6 Ounce Corrugated Fiberglass Panels.....	7.53	2.56
07 46 33 00-0046 SF 8 Ounce Corrugated Fiberglass Panels.....	7.99	2.30
07 46 33 00-0047 SF 12 Ounce Corrugated Fiberglass Panels.....	8.82	2.30
07 46 33 00-0048 Flat Panels <small>(07 46 33 00-0043)</small>		
07 46 33 00-0049 SF 6 Ounce Flat Fiberglass Panels.....	7.23	2.30
07 46 33 00-0050 SF 8 Ounce Flat Fiberglass Panels.....	7.99	2.30
07 46 46 Fiber-Cement Siding <small>(07 46)</small> Note: Smooth or patterns. Includes sealer and primer.		
07 46 46 00-0001 5/16" Thick, Fiber Cement Lap Siding <small>(07 46 46)</small>		
07 46 46 00-0002 SF 5-1/4" Board with 4" Exposure, 5/16" Thick, Fiber Cement Lap Siding.....	6.85	2.69
07 46 46 00-0003 SF 6-1/4" Board with 5" Exposure, 5/16" Thick, Fiber Cement Lap Siding.....	6.52	2.56
07 46 46 00-0004 SF 7-1/4" Board with 6" Exposure, 5/16" Thick, Fiber Cement Lap Siding.....	6.38	2.50
07 46 46 00-0005 SF 8-1/4" Board with 7" Exposure, 5/16" Thick, Fiber Cement Lap Siding.....	6.22	2.42
07 46 46 00-0006 SF 9-1/2" Board with 8" Exposure, 5/16" Thick, Fiber Cement Lap Siding.....	5.94	2.30
07 46 46 00-0007 SF 12" Board with 10-3/4" Exposure, 5/16" Thick, Fiber Cement Lap Siding.....	5.65	2.17
07 46 46 00-0008 LF Starter Strip, Fiber Cement Lap Siding.....	1.49	0.64

07 Thermal And Moisture Protection**07 40 Roofing and Siding Panels****07 46 Siding**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 46 46 00-0009 Fiber Cement Shingle Siding <small>(07 46 46)</small>		
07 46 46 00-0010 SF Fiber Cement Shingle Siding	9.27	2.36
07 46 46 00-0011 Fiber Cement Vertical Panel Siding <small>(07 46 46)</small>		
07 46 46 00-0012 SF Fiber Cement Vertical Panel Siding	5.00	1.92
07 46 46 00-0013 Fiber Cement Trim Boards <small>(07 46 46)</small>		
07 46 46 00-0014 7/16" Thick, Fiber Cement Trim Boards <small>(07 46 46 00-0013)</small>		
07 46 46 00-0015 LF 4" Wide, 7/16" Thick, Fiber Cement Trim Board	3.28	1.28
07 46 46 00-0016 LF 6" Wide, 7/16" Thick, Fiber Cement Trim Board	4.01	1.41
07 46 46 00-0017 LF 8" Wide, 7/16" Thick, Fiber Cement Trim Board	4.71	1.53
07 46 46 00-0018 LF 12" Wide, 7/16" Thick, Fiber Cement Trim Board	6.04	1.79
07 46 46 00-0019 3/4" Thick Fiber Cement Trim Boards <small>(07 46 46 00-0013)</small>		
07 46 46 00-0020 LF 4" Wide, 3/4" Thick, Fiber Cement Trim Board	3.40	1.28
07 46 46 00-0021 LF 6" Wide, 3/4" Thick, Fiber Cement Trim Board	4.19	1.41
07 46 46 00-0022 LF 8" Wide, 3/4" Thick, Fiber Cement Trim Board	5.01	1.53
07 46 46 00-0023 LF 12" Wide, 3/4" Thick, Fiber Cement Trim Board	5.38	1.79
07 46 46 00-0024 1" Thick Fiber Cement Trim Boards <small>(07 46 46 00-0013)</small>		
07 46 46 00-0025 LF 4" Wide, 1" Thick, Fiber Cement Trim Board	3.55	1.28
07 46 46 00-0026 LF 6" Wide, 1" Thick, Fiber Cement Trim Board	4.46	1.41
07 46 46 00-0027 LF 8" Wide, 1" Thick, Fiber Cement Trim Board	5.40	1.53
07 46 46 00-0028 LF 12" Wide, 1" Thick, Fiber Cement Trim Board	7.04	1.79
07 46 46 00-0029 Fiber Cement Fascia Board <small>(07 46 46)</small>		
07 46 46 00-0030 LF 5/4" x 3-1/2" Fiber Cement Fascia Board	6.75	2.54
07 46 46 00-0031 LF 5/4" x 5-1/2" Fiber Cement Fascia Board	8.30	2.82
07 46 46 00-0032 LF 5/4" x 7-1/4" Fiber Cement Fascia Board	9.13	2.82
07 46 46 00-0033 LF 5/4" x 11-1/4" Fiber Cement Fascia Board	11.94	3.32
07 46 46 00-0034 Fiber Cement Soffit Boards <small>(07 46 46)</small>		
07 46 46 00-0035 SF 1/4" Thick, Non-Vented Fiber Cement Soffit	7.65	1.83
07 46 46 00-0036 SF 1/4" Thick, Vented Fiber Cement Soffit	8.16	1.83
07 46 63 Fabricated Panel Assemblies with Siding <small>(07 46)</small>		
07 46 63 00-0001 Metal Liner Panels <small>(07 46 63)</small>		
07 46 63 00-0002 Galvanized Metal Liner Panels <small>(07 46 63 00-0001)</small>		
07 46 63 00-0003 SF 24 Gauge, 1-3/8" Thick Galvanized Metal Liner Panel	11.32	2.30
07 46 63 00-0004 SF 22 Gauge, 1-3/8" Thick Galvanized Metal Liner Panel	12.38	2.30
07 46 63 00-0005 SF 20 Gauge, 1-3/8" Thick Galvanized Metal Liner Panel	14.25	2.30
07 46 63 00-0006 SF 18 Gauge, 1-3/8" Thick Galvanized Metal Liner Panel	14.44	2.30
07 50 Membrane Roofing <small>(07)</small>		
See CSI section 07 22 16 00-0000 for insulation, 07 60 00 00-0000 for additional flashing, sheet metal and trim, 07 70 00 00-0000 for additional roof accessories.		
07 51 Built-Up Bituminous Roofing <small>(07 50)</small>		
07 51 13 Built-Up Asphalt Roofing <small>(07 51)</small>		
07 51 13 00-0001 Built-Up Asphalt Roofing Components <small>(07 51 13)</small>		
07 51 13 00-0002 Built-Up Asphalt Membrane Roofing <small>(07 51 13 00-0001)</small>		
Note: Includes all standard manufacturers' colors including white for granule and smooth surfaced cap sheets and flashing. See CSI section 07 51 13 00-0067 for built-up roofing demolition.		
07 51 13 00-0003 Cold Adhesive Applied, Built-Up Asphalt Membrane Roofing <small>(07 51 13 00-0002)</small>		
Note: Includes applying cold adhesive and embedding the membrane.		
07 51 13 00-0004 Cold Adhesive Applied, Built-Up Asphalt Roofing Base, Ply And Cap Sheets <small>(07 51 13 00-0003)</small>		
07 51 13 00-0005 SQ Type IV, Asphalt Coated Fiberglass Ply Sheet, Cold Adhesive Applied	115.80	
For Up To 10, Add	30.57	
For >10 To 20, Add	17.14	
For >20 To 40, Add	9.50	
For >75 To 100, Deduct	-4.75	
For >100 To 200, Deduct	-10.42	
For >200, Deduct	-15.17	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 51 13 00-0006 SQ Asphalt Coated Polyester And Fiberglass Scrim, Base Or Ply Sheet, Cold Adhesive Applied	321.04	
<i>For Up To 10, Add</i>	71.62	
<i>For >10 To 20, Add</i>	37.66	
<i>For >20 To 40, Add</i>	19.76	
<i>For >75 To 100, Deduct</i>	-9.88	
<i>For >100 To 200, Deduct</i>	-20.68	
<i>For >200, Deduct</i>	-30.56	
07 51 13 00-0007 Cold Adhesive Applied, Built-Up Asphalt Roofing Flashing (07 51 13 00-0003)		
07 51 13 00-0008 SF Asphalt Coated Polyester And Fiberglass Scrim, Flashing, Cold Adhesive Applied.....	7.67	
07 51 13 00-0009 Hot-Mopped, Built-Up Asphalt Membrane Roofing (07 51 13 00-0002)		
<i>Note: Includes mopping hot asphalt and embedding the membrane.</i>		
07 51 13 00-0010 Hot-Mopped, Built-Up Asphalt Roofing Base, Ply And Cap Sheets (07 51 13 00-0009)		
07 51 13 00-0011 SQ Type IV, Asphalt Coated Fiberglass Ply Sheet, Hot-Mopped	85.21	
<i>For Up To 10, Add</i>	24.59	
<i>For >10 To 20, Add</i>	14.18	
<i>For >20 To 40, Add</i>	8.03	
<i>For >75 To 100, Deduct</i>	-4.02	
<i>For >100 To 200, Deduct</i>	-8.98	
<i>For >200, Deduct</i>	-12.99	
07 51 13 00-0012 SQ Type VI, Asphalt Coated Fiberglass Ply Sheet, Hot-Mopped	91.06	
<i>For Up To 10, Add</i>	25.76	
<i>For >10 To 20, Add</i>	14.76	
<i>For >20 To 40, Add</i>	8.33	
<i>For >75 To 100, Deduct</i>	-4.16	
<i>For >100 To 200, Deduct</i>	-9.27	
<i>For >200, Deduct</i>	-13.43	
07 51 13 00-0013 SQ Fine Mineral Surfaced, Asphalt Coated Fiberglass Base Sheet, Hot-Mopped.....	97.71	
<i>For Up To 10, Add</i>	27.09	
<i>For >10 To 20, Add</i>	15.43	
<i>For >20 To 40, Add</i>	8.66	
<i>For >75 To 100, Deduct</i>	-4.33	
<i>For >100 To 200, Deduct</i>	-9.60	
<i>For >200, Deduct</i>	-13.93	
07 51 13 00-0014 SQ Asphalt Coated Fiberglass Venting Base Sheet, Hot-Mopped	171.46	
<i>For Up To 10, Add</i>	41.84	
<i>For >10 To 20, Add</i>	22.80	
<i>For >20 To 40, Add</i>	12.35	
<i>For >75 To 100, Deduct</i>	-6.17	
<i>For >100 To 200, Deduct</i>	-13.29	
<i>For >200, Deduct</i>	-19.46	
07 51 13 00-0015 SQ Asphalt Coated Polyester And Fiberglass Scrim, Base Or Ply Sheet, Hot-Mopped	290.46	
<i>For Up To 10, Add</i>	65.64	
<i>For >10 To 20, Add</i>	34.70	
<i>For >20 To 40, Add</i>	18.30	
<i>For >75 To 100, Deduct</i>	-9.15	
<i>For >100 To 200, Deduct</i>	-19.24	
<i>For >200, Deduct</i>	-28.39	
07 51 13 00-0016 SQ Granule Surfaced, Asphalt Coated Fiberglass Cap Sheet, Hot-Mopped	220.04	
<i>For Up To 10, Add</i>	52.27	
<i>For >10 To 20, Add</i>	28.20	
<i>For >20 To 40, Add</i>	15.13	
<i>For >75 To 100, Deduct</i>	-7.57	
<i>For >100 To 200, Deduct</i>	-16.16	
<i>For >200, Deduct</i>	-23.73	
07 51 13 00-0017 Hot-Mopped, Built-Up Asphalt Roofing Flashing (07 51 13 00-0009)		
07 51 13 00-0018 SF Asphalt Coated Polyester And Fiberglass Scrim, Flashing, Hot-Mopped	4.88	
07 51 13 00-0019 Mechanically Fastened, Built-Up Asphalt Membrane Roofing (07 51 13 00-0002)		
<i>Note: Includes fasteners.</i>		
07 51 13 00-0020 Mechanically Fastened, Built-Up Asphalt Roofing Base, Ply And Cap Sheets (07 51 13 00-0019)		
07 51 13 00-0021 SQ Type VI, Asphalt Coated Fiberglass Ply Sheet, Mechanically Fastened.....	89.82	
<i>For Up To 10, Add</i>	21.67	
<i>For >10 To 20, Add</i>	11.76	
<i>For >20 To 40, Add</i>	6.34	
<i>For >75 To 100, Deduct</i>	-3.17	
<i>For >100 To 200, Deduct</i>	-6.80	
<i>For >200, Deduct</i>	-9.98	
07 51 13 00-0022 SQ Asphalt Coated Fiberglass Venting Base Sheet, Mechanically Fastened.....	170.22	
<i>For Up To 10, Add</i>	37.75	
<i>For >10 To 20, Add</i>	19.80	
<i>For >20 To 40, Add</i>	10.36	
<i>For >75 To 100, Deduct</i>	-5.18	
<i>For >100 To 200, Deduct</i>	-10.82	
<i>For >200, Deduct</i>	-16.01	

07 Thermal And Moisture Protection**07 50 Membrane Roofing****07 51 Built-Up Bituminous Roofing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 51 13 00-0023 SQ Asphalt Coated Polyester And Fiberglass Scrim, Base Or Ply Sheet, Mechanically Fastened.....	289.21	
For Up To 10, Add	61.54	
For >10 To 20, Add	31.70	
For >20 To 40, Add	16.31	
For >75 To 100, Deduct	-8.16	
For >100 To 200, Deduct	-16.77	
For >200, Deduct	-24.93	
07 51 13 00-0024 Mechanically Fastened, Built-Up Asphalt Roofing Flashing (07 51 13 00-0019)		
07 51 13 00-0025 SF Asphalt Coated Polyester And Fiberglass Scrim, Flashing, Mechanically Fastened	5.91	
07 51 13 00-0026 Asphalt Saturated Organic Felt (07 51 13 00-0001)		
07 51 13 00-0027 Cold Adhesive Applied, Asphalt Saturated Organic Felt (07 51 13 00-0026)		
Note: Includes applying cold adhesive and embedding the felt.		
07 51 13 00-0028 SQ 15 LB, Asphalt Saturated Organic Base Or Ply Sheet, Cold Adhesive Applied	112.14	
For Up To 10, Add	29.84	
For >10 To 20, Add	16.77	
For >20 To 40, Add	9.31	
For >75 To 100, Deduct	-4.66	
For >100 To 200, Deduct	-10.24	
For >200, Deduct	-14.89	
07 51 13 00-0029 SQ 30 LB, Asphalt Saturated Organic Base Or Ply Sheet, Cold Adhesive Applied	127.23	
For Up To 10, Add	32.86	
For >10 To 20, Add	18.28	
For >20 To 40, Add	10.07	
For >75 To 100, Deduct	-5.03	
For >100 To 200, Deduct	-10.99	
For >200, Deduct	-16.03	
07 51 13 00-0030 Hot-Mopped, Asphalt Saturated Organic Felt (07 51 13 00-0026)		
Note: Includes mopping hot asphalt and embedding the felt.		
07 51 13 00-0031 SQ 15 LB, Asphalt Saturated Organic Base Or Ply Sheet, Hot-Mopped	81.55	
For Up To 10, Add	23.85	
For >10 To 20, Add	13.81	
For >20 To 40, Add	7.85	
For >75 To 100, Deduct	-3.92	
For >100 To 200, Deduct	-8.79	
For >200, Deduct	-12.72	
07 51 13 00-0032 SQ 30 LB, Asphalt Saturated Organic Base Or Ply Sheet, Hot-Mopped	96.64	
For Up To 10, Add	26.87	
For >10 To 20, Add	15.32	
For >20 To 40, Add	8.60	
For >75 To 100, Deduct	-4.30	
For >100 To 200, Deduct	-9.55	
For >200, Deduct	-13.85	
07 51 13 00-0033 Mechanically Fastened, Asphalt Saturated Organic Felt (07 51 13 00-0026)		
Note: Includes fasteners.		
07 51 13 00-0034 SQ 15 LB, Asphalt Saturated Organic Base Or Ply Sheet, Mechanically Fastened.....	40.97	
For Up To 10, Add	11.90	
For >10 To 20, Add	6.87	
For >20 To 40, Add	3.90	
For >75 To 100, Deduct	-1.95	
For >100 To 200, Deduct	-4.36	
For >200, Deduct	-6.31	
07 51 13 00-0035 SQ 30 LB, Asphalt Saturated Organic Base Or Ply Sheet, Mechanically Fastened.....	56.06	
For Up To 10, Add	14.91	
For >10 To 20, Add	8.38	
For >20 To 40, Add	4.65	
For >75 To 100, Deduct	-2.33	
For >100 To 200, Deduct	-5.12	
For >200, Deduct	-7.44	
07 51 13 00-0036 Surfacing (07 51 13 00-0001)		
07 51 13 00-0037 SQ 400 LB/SQ Gravel Roofing Ballast, Set In Hot Asphalt Flood Coat	180.44	
For Up To 10, Add	54.61	
For >10 To 20, Add	31.94	
For >20 To 40, Add	18.29	
For >75 To 100, Deduct	-9.14	
For >100 To 200, Deduct	-20.60	
For >200, Deduct	-29.74	
07 51 13 00-0038 SQ 400 LB/SQ Gravel Roofing Ballast, Set In Cold Adhesive Flood Coat.....	269.25	
For Up To 10, Add	72.38	
For >10 To 20, Add	40.82	
For >20 To 40, Add	22.73	
For >75 To 100, Deduct	-11.36	
For >100 To 200, Deduct	-25.04	
For >200, Deduct	-36.40	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 51 13 00-0039 CY Gravel Roofing Ballast, Spread To Desired Thickness.....	187.68	
Note: Excludes hot asphalt or cold adhesive.		
07 51 13 00-0040 SQ Protective Polypropylene Fabric Mat, Loose Laid.....	52.50	
Note: Installed as a separator mat (under membrane), a crushed stone mat (above membrane) or as a stone separator mat in ballasted systems.		
For Up To 10, Add	12.94	
For >10 To 20, Add	7.08	
For >20 To 40, Add	3.85	
For >75 To 100, Deduct	-1.92	
For >100 To 200, Deduct	-4.15	
For >200, Deduct	-6.08	
07 51 13 00-0041 SQ Clay-Stabilized, Water-Based Asphalt Emulsion With Reinforcing Fibers, Weather-Proofing Surface Coating, Price Per Coat.....	131.43	
Note: Protective coating for use over built-up, SBS and APP modified bitumen, metal, concrete and wood roofs.		
For Up To 10, Add	30.73	
For >10 To 20, Add	16.48	
For >20 To 40, Add	8.79	
For >75 To 100, Deduct	-4.40	
For >100 To 200, Deduct	-9.35	
For >200, Deduct	-13.75	
07 51 13 00-0042 SQ Fibrated Aluminum, Asphalt-Based, Reflective Weather-Proofing Surface Coating, Price Per Coat.....	116.74	
Note: Protective and reflective coating for use over built-up, SBS and APP modified bitumen and metal roofs.		
For Up To 10, Add	27.79	
For >10 To 20, Add	15.01	
For >20 To 40, Add	8.06	
For >75 To 100, Deduct	-4.03	
For >100 To 200, Deduct	-8.62	
For >200, Deduct	-12.65	
07 51 13 00-0043 SQ Aluminum Flakes And Reinforcing Fibers Suspended In Emulsified Asphalt, Reflective Surface Coating, Price Per Coat.....	156.82	
Note: Reflective coating for use over smooth-surfaced built-up roofs.		
For Up To 10, Add	35.81	
For >10 To 20, Add	19.02	
For >20 To 40, Add	10.06	
For >75 To 100, Deduct	-5.03	
For >100 To 200, Deduct	-10.62	
For >200, Deduct	-15.65	
07 51 13 00-0044 SQ 100% Acrylic Elastomeric, Reflective Surface Coating, Price Per Coat.....	158.13	
Note: Reflective coating for use over built-up, SBS and APP modified bitumen roofs. For use on smooth or granule surfaced roofing systems.		
For Up To 10, Add	36.07	
For >10 To 20, Add	19.15	
For >20 To 40, Add	10.13	
For >75 To 100, Deduct	-5.06	
For >100 To 200, Deduct	-10.69	
For >200, Deduct	-15.75	
For Installation Over Granule Surfaced Asphalt Roof Systems, Add	47.07	
07 51 13 00-0045 SQ 100% Acrylic Elastomeric, Bleed Blocking Base Coating, Price Per Coat.....	163.53	
Note: Bleed blocking coating for use over built-up, Styrene-Butadiene-Styrene (SBS) and Atactic-Polypropylene (APP) modified bitumen roofs. For use on smooth or granule surfaced roofing systems.		
For Up To 10, Add	37.15	
For >10 To 20, Add	19.69	
For >20 To 40, Add	10.40	
For >75 To 100, Deduct	-5.20	
For >100 To 200, Deduct	-10.96	
For >200, Deduct	-16.16	
For Installation Over Granule Surfaced Asphalt Roof Systems, Add	48.85	
07 51 13 00-0046 SF Ceramic Coated Roofing Granules, Hand Broadcast.....	2.58	
Note: For application over liquid flashing/membranes, asphalt bleed-out areas, modified or BUR membrane repairs, etc.		
07 51 13 00-0047 SF Energy Star, Ceramic Coated UltraWhite Roofing Granules, Hand Broadcast.....	4.52	
Note: For application over liquid flashing/membranes, asphalt bleed-out areas, modified or BUR membrane repairs, etc.		
07 51 13 00-0048 SQ Vapor Permeable Synthetic Underlayment (GAF Deck-Armor™).....	40.57	
07 51 13 00-0049 Walkway Pads (07 51 13 00-0001)		
Note: Set in hot asphalt or cold adhesive.		
07 51 13 00-0050 LF 5/16" Thick, 32" Wide, Skid Resistant, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Walkway Pad.....	32.95	
07 51 13 00-0051 LF 1/2" Thick, 32" Wide, Skid Resistant, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Walkway Pad.....	39.27	
07 51 13 00-0052 Cant And Tapered Edge Strips (07 51 13 00-0001)		
07 51 13 00-0053 LF 2" x 2" Perlite Cant Strip.....	4.48	
07 51 13 00-0054 LF 3" x 3" Perlite Cant Strip.....	4.63	
07 51 13 00-0055 LF 4" x 4" Perlite Cant Strip.....	5.32	
07 51 13 00-0056 LF 3" x 3" Pressure Treated Wood Cant Strip, Cut Diagonally.....	4.36	
07 51 13 00-0057 LF 4" x 4" Pressure Treated Wood Cant Strip, Cut Diagonally.....	4.51	
07 51 13 00-0058 LF 1/2" x 6" Perlite Tapered Edge Strip.....	5.01	
07 51 13 00-0059 LF 1/2" x 12" Perlite Tapered Edge Strip.....	5.80	
07 51 13 00-0060 LF 1" x 12" Perlite Tapered Edge Strip.....	6.02	
07 51 13 00-0061 LF 1" x 24" Perlite Tapered Edge Strip.....	6.84	
07 51 13 00-0062 LF 1-1/2" x 12" Perlite Tapered Edge Strip.....	6.76	
07 51 13 00-0063 LF 1-1/2" x 18" Perlite Tapered Edge Strip.....	8.26	
07 51 13 00-0064 LF 1-1/2" x 24" Perlite Tapered Edge Strip.....	9.34	

07 Thermal And Moisture Protection**07 50 Membrane Roofing****07 51 Built-Up Bituminous Roofing**

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
07 51 13 00-0065		Asphalt Primer <small>(07 51 13 00-0001)</small>		
07 51 13 00-0066	SQ	Asphalt Primer For Roofing Systems Note: Foundation coating for hot-mopped and cold applied asphalt coatings, roof cements, and asphalt based roof adhesives. For use on weathered roofing, asphalt, concrete, gypsum, masonry, block, brick and metal surfaces.	37.65	
07 51 13 00-0067		Demolish Built-Up Roofing <small>(07 51 13 00-0001)</small>		
		Note: For removing any asphalt, coal tar or modified bitumen roofing system, including surfacing material down to the insulation or recovery board. Includes removal of any basic roof accessories and any sheet metals; except special existing conditions (mechanical equipment piping, electrical, ducts, etc.). See CSI section 01 74 19 00-0000 for chutes, dumpsters and hauling.		
07 51 13 00-0068	SQ	Demolish Gravel/Slag Surfaced, Built Up Roofing System <i>For Up To 10, Add</i> 96.53 <i>For >10 To 25, Add</i> 57.92	389.08	
07 51 13 00-0069	SQ	Demolish Cap Sheet Surfaced, Built Up Roofing System Note: Includes protective surfacing. <i>For Up To 10, Add</i> 74.46 <i>For >10 To 25, Add</i> 44.68	300.15	
07 51 13 00-0070		Roofing System Warranty <small>(07 51 13 00-0001)</small>		
		Note: The warranty tasks below are only to be used in conjunction with the built-up bituminous and modified bituminous membrane roofing sections. The appropriate task is to be applied to the completed roofing membrane systems, not individual components. All warranties are no dollar limit to include material, equipment and labor.		
07 51 13 00-0071	EA	Up To 50 SQ, 10 Year, Built-Up Bituminous Or Modified Bituminous Membrane, Roofing System Warranty .....630.21		
07 51 13 00-0072	SQ	>50 SQ, 10 Year, Built-Up Bituminous Or Modified Bituminous Membrane, Roofing System Warranty .....9.00		
07 51 13 00-0073	EA	Up To 50 SQ, 15 Year, Built-Up Bituminous Or Modified Bituminous Membrane, Roofing System Warranty .....720.24		
07 51 13 00-0074	SQ	>50 SQ, 15 Year, Built-Up Bituminous Or Modified Bituminous Membrane, Roofing System Warranty .....14.40		
07 51 13 00-0075	EA	Up To 50 SQ, 20 Year, Built-Up Bituminous Or Modified Bituminous Membrane, Roofing System Warranty .....990.33		
07 51 13 00-0076	SQ	>50 SQ, 20 Year, Built-Up Bituminous Or Modified Bituminous Membrane, Roofing System Warranty .....19.81		
07 51 13 00-0077		Built-Up Roofing Components (Tremco) <small>(07 51 13)</small>		
		Note: All tasks presented as a single layer. Adhesives are priced separately.		
07 51 13 00-0078		Cold Applied BUR Base Plies And Ply Sheets <small>(07 51 13 00-0077)</small>		
07 51 13 00-0079	SQ	BURmastic Composite Ply, Cold Applied BUR Component.....144.27 Note: Asphalt coated polyester/glass/polyester trilaminar reinforced ply sheet. Type II. 55 mils. Also used as a hot or cold applied base sheet.		
07 51 13 00-0080	SQ	BURmastic Premium Composite Ply, Cold Applied BUR Component .....175.09 Note: Asphalt coated polyester/glass/polyester trilaminar reinforced high strength ply sheet. Type II. 57 mil. Also used as a hot or cold applied base sheet.		
07 51 13 00-0081	SQ	BURmastic Supreme Composite Ply, Cold Applied BUR Component .....201.56 Note: Asphalt coated polyester/glass/polyester trilaminar reinforced high strength ply sheet. Type II. 51 mil. Also used as a hot or cold applied base sheet.		
07 51 13 00-0082	SQ	28 LB BURmastic Glass Ply, Cold Applied BUR Component .....45.75 Note: Asphalt coated fiberglass base or ply sheet. Type II.		
07 51 13 00-0083	SQ	33 LB BURmastic Glass Ply, Cold Applied BUR Component .....66.40 Note: Asphalt coated fiberglass base or ply sheet. Type II.		
07 51 13 00-0084	SQ	POWERply Modified HE Base Sheet, Hot Or Cold Applied BUR Component.....276.28 Note: Smooth surfaced, high elongation polyester reinforced modified bitumen base sheet. Type I, Grade S. 94 mil.		
07 51 13 00-0085	SQ	POWERply Modified Heavy Duty Base Sheet, Hot Applied BUR Component.....255.56 Note: A smooth surfaced, non-woven fiberglass/scrims fiberglass bilaminar reinforced modified bitumen membrane. 120 mil.		
07 51 13 00-0086		Hot Or Cold Applied Modified Bitumen Cap Membrane <small>(07 51 13 00-0077)</small>		
07 51 13 00-0087	SQ	POWERply Standard Smooth Cap Membrane, Hot Or Cold Applied BUR Component .....156.04 Note: Fiberglass reinforced modified bitumen membrane. Type I, Grade S. 80 mils. Also used as a hot or cold applied ply.		
07 51 13 00-0088	SQ	POWERply Premium Smooth Cap Membrane, Hot Or Cold Applied BUR Component.....413.89 Note: Polyester/glass bilaminar reinforced modified bitumen membrane. Type III, Grade S. 90 mils. Also used as a hot or cold applied ply.		
07 51 13 00-0089	SQ	POWERply Supreme Smooth Cap Membrane, Hot Or Cold Applied BUR Component .....684.85 Note: Polyester/glass bilaminar reinforced modified bitumen membrane. Type III, Grade S. 98 mils. Also used as a hot or cold applied ply.		
07 51 13 00-0090	SQ	POWERply Standard Cap Membrane, Hot Or Cold Applied BUR Component.....182.18 Note: Granule surface, fiberglass reinforced modified bitumen cap sheet membrane. 120 mils. Black or white surface.		
07 51 13 00-0091	SQ	POWERply Standard FR Cap Membrane, Hot Or Cold Applied BUR Component.....279.83 Note: Fire rated, granule surfaced, fiberglass reinforced modified bitumen membrane. Type I, Grade G. 120 mils.		
07 51 13 00-0092	SQ	POWERply Premium FR Cap Membrane, Hot Or Cold Applied BUR Component .....679.31 Note: Fire rated, granule surfaced, polyester/glass bilaminar reinforced modified bitumen membrane. Type III, Grade S. 160 mils. Black or white surface.		
07 51 13 00-0093	SQ	POWERply Standard FR GT24W Cap Membrane, Hot Or Cold Applied BUR Component.....494.17 Note: Highly reflective, fire rated, granule surfaced, fiberglass reinforced modified bitumen membrane meeting California's Title 24 requirements. Type I, Grade G. 120 mils.		
07 51 13 00-0094	SQ	POWERply HE FR Cap Sheet, Hot Applied BUR Component.....490.45 Note: High elongation, fire rated, granule surfaced, polyester reinforced modified bitumen membrane. 160 mils.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 51 13 00-0095 Self Adhesive Base Plies And Ply Sheets <small>(07 51 13 00-0077)</small>		
07 51 13 00-0096 SQ POWERply SA Base Sheet, Self Adhesive Roofing Note: A self adhesive, fiberglass reinforced Styrene-Butadiene-Styrene (SBS) modified bitumen base sheet/underlayment. Type 1, Grade S. 80 mils.	284.69	
07 51 13 00-0097 SQ POWERply SA FR Membrane, Self Adhesive Roofing..... Note: A fire rated, granule surfaced, polyester reinforced, self adhesive Styrene-Butadiene-Styrene (SBS) modified bitumen membrane. Type I, Grade G. 130 mils.	563.51	
07 51 13 00-0098 Flashings <small>(07 51 13 00-0077)</small>		
07 51 13 00-0099 LF 11-1/2" Hypalon Elastomeric Flashing Note: 45 mils.	17.38	
07 51 13 00-0100 LF 19" Hypalon Elastomeric Flashing Note: 45 mils.	28.15	
07 51 13 00-0101 LF 25" Hypalon Elastomeric Flashing Note: 45 mils.	37.38	
07 51 13 00-0102 LF 38" Hypalon Elastomeric Flashing Note: 45 mils.	54.88	
07 51 13 00-0103 LF 60-1/2" Hypalon Elastomeric Flashing Note: 45 mils.	90.30	
07 51 13 00-0104 LF 12" TRA Elastomeric Flashing Membrane Note: Polyester reinforced flashing membrane. 45 mils.	13.71	
07 51 13 00-0105 LF 18" TRA Elastomeric Flashing Membrane Note: Polyester reinforced flashing membrane. 45 mils.	22.27	
07 51 13 00-0106 LF 24" TRA Elastomeric Flashing Membrane Note: Polyester reinforced flashing membrane. 45 mils.	29.69	
07 51 13 00-0107 LF 36" TRA Elastomeric Flashing Membrane Note: Polyester reinforced flashing membrane. 45 mils.	43.43	
07 51 13 00-0108 LF 60" TRA Elastomeric Flashing Membrane Note: Polyester reinforced flashing membrane. 45 mils.	73.06	
07 51 13 00-0109 LF 4" BURmesh Fabric Note: Glass membrane for reinforcement or repair of roof membranes and flashings.	3.78	
07 51 13 00-0110 LF 6" BURmesh Fabric Note: Glass membrane for reinforcement or repair of roof membranes and flashings.	3.95	
07 51 13 00-0111 LF 12" BURmesh Fabric Note: Glass membrane for reinforcement or repair of roof membranes and flashings.	5.58	
07 51 13 00-0112 LF 36" BURmesh Fabric Note: Glass membrane for reinforcement or repair of roof membranes and flashings.	14.45	
07 51 13 00-0113 Cold Applied Adhesives <small>(07 51 13 00-0077)</small>		
07 51 13 00-0114 SQ BURmastic Inter-Ply Cold Applied Adhesive 176.03	176.03	
07 51 13 00-0115 SQ BURmastic Flood Coat Cold Applied Adhesive 290.33	290.33	
07 51 13 00-0116 SQ BURmastic SF Inter-Ply Cold Applied Adhesive 224.44	224.44	
07 51 13 00-0117 SQ BURmastic LV Inter-Ply Cold Applied Adhesive 176.03	176.03	
07 51 13 00-0118 SQ POWERply Standard Inter-Ply Cold Applied Adhesive 88.77	88.77	
07 51 13 00-0119 SQ POWERply Standard Flood Coat Cold Applied Adhesive 197.97	197.97	
07 51 13 00-0120 SQ POWERply White On White Cold Applied Adhesive 195.34	195.34	
07 51 13 00-0121 SQ Rock-It Cold Applied Adhesive For Gravel Applications 547.21	547.21	
07 51 13 00-0122 SQ FAS-n-FREE Cold Applied Adhesive (Beads 12" OC) 302.67 Note: For insulation only.	302.67	
07 51 13 00-0123 SQ ECOLastic Cold Applied Adhesive 339.45	339.45	
07 51 13 00-0124 Hot Applied Adhesives <small>(07 51 13 00-0077)</small>		
07 51 13 00-0125 SQ Premium III Asphalt Inter-Ply Hot Applied Adhesive 62.75	62.75	
07 51 13 00-0126 SQ Premium III Asphalt Flood Coat Hot Applied Adhesive 116.83	116.83	
07 51 13 00-0127 Flashings Adhesives <small>(07 51 13 00-0077)</small>		
07 51 13 00-0128 LF Sheeting Bond Flashing Adhesive 20.97 Note: Used to attach Hypalon sheeting to asphalt or coal-tar roofing membranes.	20.97	
07 51 13 00-0129 LF Polyroof SF Flashing Mastic 27.90 Note: A solvent free, one part elastomeric roof mastic. Used to seal edges or as a repair mastic for split or cracked seals.	27.90	
07 51 13 00-0130 LF ELS Flashing Mastic 16.81 Note: Used for repairing flashings and asphalt built-up roof defects.	16.81	
07 51 13 00-0131 LF TremSEAL D General Purpose Sealant 6.38	6.38	
07 51 13 00-0132 LF TremSEAL HP High Performance Sealant 6.56	6.56	
07 51 13 00-0133 LF TremSEAL S Silicone Sealant 6.41	6.41	
07 51 13 00-0134 Surfacing <small>(07 51 13 00-0077)</small>		
07 51 13 00-0135 SQ TremLastic SP Non-Fibered Elastomeric Emulsion Cold Applied Coating 262.82	262.82	
07 51 13 00-0136 SQ ICE Coating, Water Based, Heavy Bodied Elastomeric Roof Coating 587.30	587.30	
07 51 13 00-0137 SQ Polar Coat 149.93	149.93	
07 51 13 00-0138 SQ Alumanation 301, Asphalt Based, Fibrated Aluminum Roof Coating 184.15	184.15	
07 51 13 00-0139 SQ Wall-Tite, Elastomeric Coating For Exterior Above-Grade Walls 537.47	537.47	
07 51 13 00-0140 SQ Solarguard Hy-Build, Elastomeric Coating For Exterior Above-Grade Walls 242.36	242.36	
07 51 13 00-0141 SQ 100% Stitchbonded, Polyester Fabric (Tremco PERMAFAB) 69.36	69.36	

07 Thermal And Moisture Protection**07 50 Membrane Roofing****07 51 Built-Up Bituminous Roofing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 51 13 00-0142 Walkway Protection Pads <small>(07 51 13 00-0077)</small>		
07 51 13 00-0143 LF 36" Wide, Fiberglass Reinforced Asphaltic Walkway Protection Pad (Tremco Trem-Tred®)	33.64	
07 51 13 00-0144 Primer <small>(07 51 13 00-0077)</small>		
07 51 13 00-0145 SQ TREMprime WB Primer	37.93	
Note: Water based polymer modified asphalt primer.		
07 51 13 00-0146 SQ Solarguard Masonry Primer, Acrylic Latex Primer For Wall Tite F Coating	86.06	
07 51 13 00-0147 Liquid Applied Roofing <small>(07 51 13 00-0077)</small>		
07 51 13 00-0148 SQ Trem-LAR LRM H Waterproofing (Horizontal)	446.55	
Note: One part liquid applied elastomeric roofing membrane. 60 mils.		
07 51 13 00-0149 SQ Trem-LAR LRM V Waterproofing (Vertical)	454.54	
Note: One part liquid applied elastomeric roofing membrane. 60 mils.		
07 51 13 00-0150 SQ AlphaGuard BIO Base Coat, High Performance, Two-Part, Polyurethane Roof Coating For Smooth BUR/MB, Concrete Or Single Ply Surfaces	585.00	
Note: Two part liquid applied polyurethane roof coating. 48 mils.		
07 51 13 00-0151 SQ AlphaGuard BIO Base Coat, High Performance, Two-Part, Polyurethane Roof Coating For Granule MB Surfaces	761.75	
Note: Two part liquid applied polyurethane roof coating. 64 mils.		
07 51 13 00-0152 SQ AlphaGuard BIO Top Coat, High Performance, Two-Part, Polyurethane Roof Coating	443.29	
Note: Two part liquid applied polyurethane roof coating. 32 mils.		
07 51 13 00-0153 SQ AlphaGuard Glass Mat	85.13	
Note: Reinforcement mat for AlphaGuard systems.		
07 51 13 00-0154 SQ AlphaGuard C-Prime Primer	85.84	
Note: 100% solids epoxy primer for concrete surfaces.		
07 51 13 00-0155 SQ AlphaGuard M-Prime Primer	92.32	
Note: Water based primer for metal and plastic surfaces.		
07 51 13 00-0156 SQ Geogard Primer	67.82	
Note: Reactivation primer for cured AlphaGuard MT roof systems and coatings.		
07 51 13 00-0157 SQ AlphaGuard Primer WB	60.91	
Note: Water based polymer modified primer which conditions a variety of roofing substrates prior to the application of AlphaGuard systems.		
07 51 13 00-0158 Atactic-Polypropylene (APP) Products <small>(07 51 13 00-0077)</small>		
07 51 13 00-0159 SQ POWERply Atactic-Polypropylene (APP) Base Sheet	230.30	
07 51 13 00-0160 SQ POWERply Atactic-Polypropylene (APP) FR	436.14	
07 51 13 00-0161 SQ POWERply Atactic-Polypropylene (APP) Smooth	349.51	
07 51 13 00-0162 Tri-Polymer Alloy (TPA) White Membrane <small>(07 51 13 00-0077)</small>		
07 51 13 00-0163 SQ 45 Mil Tri-Polymer Alloy (TPA) White Membrane	611.24	
07 51 13 00-0164 SQ 60 Mil Tri-Polymer Alloy (TPA) White Membrane	840.16	
07 51 13 00-0165 SQ 80 Mil Tri-Polymer Alloy (TPA) White Membrane	955.42	
07 51 13 00-0166 Tri-Polymer Alloy (TPA) Polyester Fleece Backed White Membrane <small>(07 51 13 00-0077)</small>		
07 51 13 00-0167 SQ 45 Mil Tri-Polymer Alloy (TPA) Polyester Fleece Backed White Membrane	703.82	
07 51 13 00-0168 SQ 60 Mil Tri-Polymer Alloy (TPA) Polyester Fleece Backed White Membrane	864.52	
07 51 13 00-0169 SQ 80 Mil Tri-Polymer Alloy (TPA) Polyester Fleece Backed White Membrane	1,058.72	
07 51 13 00-0170 Tri-Polymer Alloy (TPA) Membrane Accessories <small>(07 51 13 00-0077)</small>		
07 51 13 00-0171 EA >1" To 4" Pipe Diameter, Prefabricated Tri-Polymer Alloy (TPA) Pipe Cone/Boot (Tremco)	125.78	
07 51 13 00-0172 EA >4" To 8" Pipe Diameter, Prefabricated Tri-Polymer Alloy (TPA) Pipe Cone/Boot (Tremco)	142.87	
07 51 13 00-0173 LF 36" Wide, Thermoplastic Tri-Polymer Alloy (TPA) Walkway Protection Pad (Tremco)	20.05	
07 51 13 00-0174 SQ Factory Coated Steel Fasteners And Steel Or Plastic Membrane Plates (Tremco)	68.61	
07 51 13 00-0175 Thermoplastic Polyolefin (TPO) Polyester White Membrane <small>(07 51 13 00-0077)</small>		
07 51 13 00-0176 SQ 45 Mil Thermoplastic Polyolefin (TPO) Polyester White Membrane	326.60	
07 51 13 00-0177 SQ 60 Mil Thermoplastic Polyolefin (TPO) Polyester White Membrane	331.25	
07 51 13 00-0178 SQ 80 Mil Thermoplastic Polyolefin (TPO) Polyester White Membrane	592.61	
07 51 13 00-0179 Thermoplastic Polyolefin (TPO) Polyester Fleece Backed White Membrane <small>(07 51 13 00-0077)</small>		
07 51 13 00-0180 SQ 45 Mil Thermoplastic Polyolefin (TPO) Polyester Fleece Backed White Membrane	380.64	
07 51 13 00-0181 SQ 60 Mil Thermoplastic Polyolefin (TPO) Polyester Fleece Backed White Membrane	429.71	
07 51 13 00-0182 SQ 80 Mil Thermoplastic Polyolefin (TPO) Polyester Fleece Backed White Membrane	626.99	
07 51 13 00-0183 Chlorosulfonated Polyethylene (CSPE) White Membrane (Tremply HP 4510) <small>(07 51 13 00-0077)</small>		
07 51 13 00-0184 SQ 45 Mil Chlorosulfonated Polyethylene (CSPE) White Membrane (Tremply HP 4510)	1,029.66	
07 51 13 00-0185 Single Ply Adhesives <small>(07 51 13 00-0077)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 51 13 00-0186 SQ Low VOC, TPA Bonding Adhesive (Tremco).....	165.76	
07 51 13 00-0187 SQ Water Based, TPA Bonding Adhesive (Tremco).....	187.39	
07 51 13 00-0188 SQ Water Based, Fleece Backed Single Ply Bonding Adhesive (Tremco).....	162.62	
07 51 13 00-0189 SQ Low VOC, TPO Bonding Adhesive (Tremco).....	108.07	
07 51 13 00-0190 Warranty (Tremco) <small>(07 51 13 00-0077)</small>		
07 51 13 00-0191 EA Up To 10,000 SF 15 Year Roofing System Warranty.....	1,500.00	
07 51 13 00-0192 SF >10,000 SF 15 Year Roofing System Warranty.....	0.15	
07 51 13 00-0193 EA Up To 10,000 SF 20 Year Roofing System Warranty.....	2,000.00	
07 51 13 00-0194 SF >10,000 SF 20 Year Roofing System Warranty.....	0.20	
07 51 13 00-0195 Built-Up Roofing Components (Garland) <small>(07 51 13)</small>		
<small>Note: All tasks presented as a single layer. Adhesives are priced separately.</small>		
07 51 13 00-0196 Modified Cap Membranes <small>(07 51 13 00-0195)</small>		
<small>See CSI section 07 51 13 00-0220 for base membrane.</small>		
07 51 13 00-0197 Modified Cap Membranes, Hot/Cold Applied <small>(07 51 13 00-0196)</small>		
<small>Note: As manufactured by Garland. Pricing represents single ply per square. Includes 30 year leak-free warranty.</small>		
07 51 13 00-0198 SQ Stressply® FR Mineral Dual Fiberglass Reinforced Styrene-Butadiene-Styrene (SBS) Modified Fiberglass Reinforced Membrane, Minimum 145 Mil.....	719.81	
07 51 13 00-0199 SQ Stressply® Plus Poly/Fiberglass Reinforced, Smooth Styrene-Butadiene-Styrene (SBS) Modified Membrane With Recycled Rubber, 105 Mil.....	514.92	
07 51 13 00-0200 SQ Stressply® Plus FR Mineral Poly/Fiberglass Reinforced Styrene-Butadiene-Styrene (SBS) Modified Fiberglass Reinforced Membrane With Recycled Rubber, Minimum 155 Mil.....	637.57	
07 51 13 00-0201 SQ Stressply® E Eco-Responsible, Smooth Styrene-Butadiene-Styrene (SBS)/Styrene-Isoprene-Styrene (SIS) Membrane With High Recycled Content And Renewable Materials.....	662.53	
07 51 13 00-0202 SQ Stressply® E FR Mineral Eco-Responsible, Styrene-Butadiene-Styrene (SBS)/Styrene-Isoprene-Styrene (SIS) Membrane With High Recycled Content And Renewable Materials, Minimum 160 Mil.....	922.49	
07 51 13 00-0203 SQ Stressply® EUV Fiberglass Reinforced, Minimum Poly/Fiberglass Reinforced White T-24 Styrene-Butadiene-Styrene (SBS)/Styrene-Isoprene-Styrene (SIS) Modified Membrane With Recycled Rubber, 160 Mil.....	1,037.05	
07 51 13 00-0204 SQ Versiply® III 80 Dual Fiberglass Reinforced Styrene-Butadiene-Styrene (SBS) Modified Membrane, 80 Mil.....	435.37	
<small>Note: Low strength cap sheet for hot or cold modified systems used with gravel.</small>		
07 51 13 00-0205 SQ Versiply® III Mineral Dual Fiberglass Reinforced Styrene-Butadiene-Styrene (SBS) Modified Membrane, Minimum 145 Mil.....	549.45	
07 51 13 00-0206 SQ BiFlex® Cap Fiberglass Reinforced, Mineral Surfaced Styrene-Butadiene-Styrene (SBS) Modified Membrane, 140 Mil.....	335.95	
07 51 13 00-0207 Modified Cap Membranes, Self-Adhering <small>(07 51 13 00-0196)</small>		
<small>Note: As manufactured by Garland. Pricing represents single ply per square. Includes 25 year leak-free warranty.</small>		
07 51 13 00-0208 SQ Stressply® SA FR Mineral Styrene-Butadiene-Styrene (SBS) Modified Self-Adhering Fiberglass Reinforced Membrane, Minimum 140 Mil.....	651.51	
<small>Note: Self adhering system. One HPR SA FR base with one ply Stress Ply SA FR cap sheet.</small>		
07 51 13 00-0209 Modified Cap Membranes, Torch-Applied <small>(07 51 13 00-0196)</small>		
<small>Note: As manufactured by Garland. Pricing represents single ply per square. Includes 30 year leak-free warranty.</small>		
07 51 13 00-0210 SQ Stressply® IV Dual Fiberglass Reinforced, Smooth Styrene-Butadiene-Styrene (SBS) Modified Membrane, Torch Applied, 180 Mil.....	802.07	
<small>Note: Smooth surfaced Styrene-Butadiene-Styrene (SBS) torch modified top ply of torch system with gravel.</small>		
07 51 13 00-0211 SQ Stressply® IV Mineral Dual Fiberglass Reinforced Styrene-Butadiene-Styrene (SBS) Modified Membrane, Torch Applied, Minimum 195 Mil.....	872.57	
07 51 13 00-0212 SQ Stressply® IV UV Mineral Fiberglass Reinforced, Starburst Surface Styrene-Butadiene-Styrene (SBS) Modified Membrane, Torch Applied, Title 24 Compliant, 195 Mil.....	919.56	
07 51 13 00-0213 SQ StressPly® IV Plus Poly/Fiberglass Reinforced Styrene-Butadiene-Styrene (SBS) Modified Membrane, Torch Applied, 180 Mil.....	840.25	
07 51 13 00-0214 SQ StressPly® IV Plus Mineral Poly/Fiberglass Reinforced Styrene-Butadiene-Styrene (SBS) Mineral Surfaced Membrane, Torch Applied, 195 Mil.....	890.19	
07 51 13 00-0215 SQ StressPly® IV Plus UV Mineral Poly/Fiberglass Reinforced Styrene-Butadiene-Styrene (SBS) Modified Reflective Mineral Membrane, Torch Applied, 195 Mil.....	934.25	
07 51 13 00-0216 Modified Cap Membranes, Coal Tar Pitch Systems <small>(07 51 13 00-0196)</small>		
<small>Note: As manufactured by Garland. Pricing represents single ply per square. Includes 30 year leak-free warranty.</small>		
07 51 13 00-0217 SQ Millennium® Poly/Fiberglass Reinforced, Smooth Styrene-Butadiene-Styrene (SBS) Modified Coal Tar Membrane, Minimum 120 Mil.....	739.24	
07 51 13 00-0218 SQ Millennium® FR Mineral Poly/Fiberglass Reinforced Styrene-Butadiene-Styrene (SBS) Modified Coal Tar Fiberglass Reinforced Membrane, Minimum 160 Mil.....	1,169.23	
07 51 13 00-0219 SQ Millennium® Mineral Poly/Fiberglass Reinforced Styrene-Butadiene-Styrene (SBS) Modified Coal Tar Membrane, Minimum 160 Mil.....	951.88	
07 51 13 00-0220 Base Ply <small>(07 51 13 00-0195)</small>		
<small>Note: Used with modified cap membranes, underlayment for metal systems, and reinforcement for restoration systems. See CSI section 07 51 13 00-0196 for cap membrane.</small>		
07 51 13 00-0221 SQ Flexbase® E120 Fiberglass Reinforced Styrene-Butadiene-Styrene (SBS) Modified Base Sheet Used As Base Ply With Biflex Cap, 120 Mil.....	658.12	
07 51 13 00-0222 SQ Flexbase® 80 Fiberglass Reinforced Styrene-Butadiene-Styrene (SBS) Modified Base Sheet Used As Base Ply With Biflex Cap, 80 Mil.....	413.58	
07 51 13 00-0223 SQ HPR® Glasbase Heavy Duty Double Coated ASTM D 4601, Type II Fiberglass, Type II, 55 Mil.....	94.65	
<small>Note: Glasbase used in cold system, nailed to deck, or inner ply 2 plies with cap.</small>		

07 Thermal And Moisture Protection**07 50 Membrane Roofing****07 51 Built-Up Bituminous Roofing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 51 13 00-0224	SQ		HPR® Glasfelt Asphalt Saturated Fiberglass Felt, ASTM D 2178 Type IV, 20 Mil Note: Inner ply felts for hot applied built up and modified BUR systems.	62.63	
07 51 13 00-0225	SQ		HPR® Premium Glasbase High Strength, Double Coated Premium Base Sheet, Far Exceeds ASTM D 4601 Type II, 55 Mil	76.27	
07 51 13 00-0226	SQ		HPR® Premium Glasfelt Premium Asphalt Saturated Fiberglass Felt, ASTM D 2178 Type VI, 25 Mil	82.88	
07 51 13 00-0227	SQ		HPR® Tribase Premium Poly/Fiberglass Reinforced Styrene-Butadiene-Styrene (SBS) Modified Base Sheet, 60 Mil	128.99	
			Note: Inner plies for cold applied modified, Styrene-Butadiene-Styrene (SBS) modified, or 2 plies under cap sheet.		
07 51 13 00-0228	SQ		Millennium® Base Poly/Fiberglass Reinforced Coal Tar Base Sheet For Cold Millennium Systems, 80 Mil	419.07	
07 51 13 00-0229	SQ		HPR® SA FR Base Sheet Styrene-Butadiene-Styrene (SBS) Modified Self-Adhering Underlayment Used In SP SA Fiberglass Reinforced Systems, Minimum 80 Mil	361.46	
			Note: Self adhering base ply for self adhering 2 ply system.		
07 51 13 00-0230	SQ		SA Base IV Fiberglass Reinforced Styrene-Butadiene-Styrene (SBS) Modified Underlayment Used With StressPly Cap Sheets, 110 Mil	337.15	
07 51 13 00-0231	SQ		StressBase® 120 Fiberglass Reinforced Styrene-Butadiene-Styrene (SBS) Modified Underlayment Used With VersiPly And StressPly Cap Sheets, 120 Mil	367.08	
07 51 13 00-0232	SQ		StressBase® 80 Fiberglass Reinforced, Smooth Styrene-Butadiene-Styrene (SBS) Modified Underlayment Used With VersiPly And StressPly Cap Sheets, 80 Mil	304.66	
07 51 13 00-0233	LF		Garmesh® 6" Styrene-Butadiene-Styrene (SBS) Coated Woven Fiberglass Reinforcing Fabric	5.42	
07 51 13 00-0234	LF		Grip Polyester® Firm Polyester Reinforcement Used For Cold Application Over Smooth BUR Or Modified Roof Systems	15.05	
07 51 13 00-0235	SQ		Grip Polyester® Soft Polyester Reinforcement Used For Cold Applications Over Metal, Modified, Or Single Ply Roof Systems	72.97	
07 51 13 00-0236	LF		Grip Polyester® Soft 12" Polyester Reinforcement Used For Cold Applications Over Metal, Modified, Or Single Ply Roof Systems	7.06	
07 51 13 00-0237	LF		Grip Polyester® Soft 4" Polyester Reinforcement Used For Cold Applications Over Metal, Modified, Or Single Ply Roof Systems	5.12	
07 51 13 00-0238	LF		Grip Polyester® Soft 6" Polyester Reinforcement Used For Cold Applications Over Metal, Modified, Or Single Ply Roof Systems	5.98	
07 51 13 00-0239	SQ		HPR® Polyscrim Plus Polyester Reinforcement For Hot Bitumen Applications	159.56	
07 51 13 00-0240			Coatings And Mastics For Roof Installation, Restoration And Repairs (07 51 13 00-0195)		
07 51 13 00-0241	SQ		Water Based Roof Primer, GarlaPrime VOC Primer	46.08	
07 51 13 00-0242	SQ		Black-Knight® Primer	42.63	
07 51 13 00-0243	SQ		Black-Knight® Cold, Cold Process Polymer Modified Coal Tar, Interply	175.69	
07 51 13 00-0244	SQ		Black-Knight® Cold, Cold Process Polymer Modified Coal Tar, Flood Coat (4-5 GAL/SQ)	185.96	
07 51 13 00-0245	SQ		Black-Knight® Cold, Cold Process Polymer Modified Coal Tar, Restoration (6-8 GAL/SQ)	296.17	
07 51 13 00-0246	SQ		Black-Knight® LV Hot Applied Polymer Modified Lower Viscosity Coal Tar Adhesive, Interply	476.91	
07 51 13 00-0247	SQ		Black-Knight® LV Hot Applied Polymer Modified Lower Viscosity Coal Tar Adhesive, Flood Coat	490.60	
07 51 13 00-0248	SQ		Energizer® K Plus FR Cold Applied Styrene-Butadiene-Styrene (SBS) Modified Asphalt Coating With Kevlar® For Smooth And Mineral Restoration, One Coat (3 GAL/SQ)	229.23	
07 51 13 00-0249	SQ		Energizer® K Plus FR Cold Applied Styrene-Butadiene-Styrene (SBS) Modified Asphalt Coating With Kevlar® For Smooth And Mineral Restoration, Restoration	379.01	
07 51 13 00-0250	SQ		Energizer® LO Low Odor Cold Applied Polyurethane Modified Asphalt Liquid Membrane For Smooth And Mineral Restoration, One Coat (3 GAL/SQ)	585.13	
07 51 13 00-0251	SQ		Energizer® LO Low Odor Cold Applied Polyurethane Modified Asphalt Liquid Membrane For Smooth And Mineral Restoration, Restoration	972.36	
07 51 13 00-0252	SQ		Garlastic® KM Plus Premium Hot Applied, Styrene-Ethylene-Butadiene-Styrene (SEBS) Modified Adhesive/Waterproofer, Interply	407.09	
07 51 13 00-0253	SQ		Garlastic® KM Plus Premium Hot Applied, Styrene-Ethylene-Butadiene-Styrene (SEBS) Modified Adhesive/Waterproofer, Flood Coat	420.78	
07 51 13 00-0254	SQ		Green-Lock® Flashing Adhesive 100% Solids Polyether, Zero VOC, Flashing Adhesive To Be Used With Styrene-Butadiene-Styrene (SBS) Sheets Only	893.24	
07 51 13 00-0255	SQ		Green-Lock® Membrane Adhesive 100% Solids Polyether, Zero VOC, Membrane Adhesive To Be Used With Styrene-Butadiene-Styrene (SBS) Sheets Only	386.55	
07 51 13 00-0256	SQ		HPR® All-Temp Asphalt Hot Applied, High Softening Point, High Penetration Mopping Asphalt, Interply	188.80	
07 51 13 00-0257	SQ		HPR® All-Temp Asphalt Hot Applied, High Softening Point, High Penetration Mopping Asphalt, Flood Coat	202.49	
07 51 13 00-0258	SQ		Insul-Lock® E HR Bio-Based High Rise Urethane Insulation Adhesive For New Construction Or Gravel	175.85	
07 51 13 00-0259	SQ		Insul-Lock® HR High Rise Urethane Insulation Adhesive For New Construction Or Gravel Recovers	164.18	
07 51 13 00-0260	SQ		Insul-Lock® HR Universal Primer All-Purpose Water Based Primer Designed For Use With The Insul-Lock Products	20.67	
			Note: Adheres all insulation layers for cold systems.		
07 51 13 00-0261	SQ		Pyramic® Plus LO White, Water-Based Acrylic, Low VOC, Reflective Roof Coating, Energy Star, Top Coat Required	199.36	
07 51 13 00-0262	SQ		Pyramic® Plus LO Base Coat, Water-Based, Acrylic, Low VOC, Base Coating For A Pyramic System	193.26	
07 51 13 00-0263	LF		Silver-Flash® Aluminized Asphalt Fibered Trowel Grade Mastic Used With GarMesh	24.52	
07 51 13 00-0264	SQ		Solex® White, Kynar® Acrylic Topcoat Roof Coating Used With Pyramic Base Coat	258.14	
07 51 13 00-0265	SQ		Tuff-Flash™ Multi-Purpose Asphaltic Polyurethane Liquid Flashing Membrane Used With Reinforcing Fabric	1,478.18	
07 51 13 00-0266	SQ		Weatherscreen™ Rubberized, Fiber-Reinforced Fire-Rated Restoration For Modified And Gravel, Flood Coat (4-5 GAL/SQ)	328.98	
07 51 13 00-0267	SQ		Weatherscreen™ Rubberized, Fiber-Reinforced Fire-Rated Restoration For Modified And Gravel	401.53	
07 51 13 00-0268	SQ		Weatherking® Cold Applied Rubber Modified Asphalt Interply Adhesive For Slopes Up To 3:12, Interply	149.35	
07 51 13 00-0269	SQ		Weatherking® Flashing Adhesive Brush Grade, Cold Applied Asphalt Adhesive For Flashings In A Weatherking System	492.46	
07 51 13 00-0270	SQ		Weatherking® Plus WC Cold Applied Rubber Modified, VOC Compliant Asphalt Interply Adhesive For Slopes Up To 2:12, Interply	148.23	
			Note: Inner ply and flood coat SEBS modified adhesive for all cold systems with gravel.		

07 52 Modified Bituminous Membrane Roofing (07 50)



Thermal And Moisture Protection	07
Membrane Roofing	07 50
Modified Bituminous Membrane Roofing	07 52

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
------------------------------	---------------------------	-------------------------

07 52 13	Atactic-Polypropylene Modified Bituminous Membrane Roofing <small>(07 52)</small>		
	Note: Includes all standard manufacturers' colors including white for granule and smooth surfaced cap sheets and flashing. See CSI section 07 51 13 00-0001 for additional components such as concrete primers, cant strips, surfacing, walkway boards, demolition and warranties.		
07 52 13 11	Cold Adhesive Applied Atactic-Polypropylene-Modified Bituminous Membrane Roofing <small>(07 52 13)</small>		
07 52 13 11-0001	Cold Adhesive Applied Atactic-Polypropylene (APP) Modified Bituminous Membrane Roofing <small>(07 52 13 11)</small>		
	Note: Includes fiberglass and/or polyester reinforcement. Includes applying cold adhesive and embedding the membrane. Includes heat welding side and end laps when required.		
07 52 13 11-0002	Cold Adhesive Applied, Atactic-Polypropylene (APP) Modified Bitumen Roofing Base, Ply And Cap Sheets <small>(07 52 13 11-0001)</small>		
07 52 13 11-0003	SQ 80 Mil, Atactic-Polypropylene (APP) Modified Bitumen Base Sheet, Cold Adhesive Applied	214.18	
	For Up To 10, Add	50.25	
	For >10 To 20, Add	26.98	
	For >20 To 40, Add	14.41	
	For >75 To 100, Deduct	-7.21	
	For >100 To 200, Deduct	-15.34	
	For >200, Deduct	-22.55	
07 52 13 11-0004	SQ 90 Mil, Atactic-Polypropylene (APP) Modified Bitumen Base Or Ply Sheet, Cold Adhesive Applied	261.04	
	For Up To 10, Add	59.62	
	For >10 To 20, Add	31.66	
	For >20 To 40, Add	16.76	
	For >75 To 100, Deduct	-8.38	
	For >100 To 200, Deduct	-17.68	
	For >200, Deduct	-26.06	
07 52 13 11-0005	SQ 160 Mil, Atactic-Polypropylene (APP) Modified Bitumen Ply Sheet, Cold Adhesive Applied	410.68	
	For Up To 10, Add	89.55	
	For >10 To 20, Add	46.63	
	For >20 To 40, Add	24.24	
	For >75 To 100, Deduct	-12.12	
	For >100 To 200, Deduct	-25.17	
	For >200, Deduct	-37.28	
07 52 13 11-0006	SQ 160 Mil, Smooth Surfaced, Atactic-Polypropylene (APP) Modified Bitumen Cap Sheet, Cold Adhesive Applied	414.20	
	For Up To 10, Add	90.95	
	For >10 To 20, Add	47.51	
	For >20 To 40, Add	24.77	
	For >75 To 100, Deduct	-12.38	
	For >100 To 200, Deduct	-25.78	
	For >200, Deduct	-38.16	
07 52 13 11-0007	SQ 160 Mil, Granule Surfaced, Atactic-Polypropylene (APP) Modified Bitumen Cap Sheet, Cold Adhesive Applied	296.01	
	For Up To 10, Add	67.32	
	For >10 To 20, Add	35.69	
	For >20 To 40, Add	18.86	
	For >75 To 100, Deduct	-9.43	
	For >100 To 200, Deduct	-19.87	
	For >200, Deduct	-29.30	
	For Factory Applied White Reflective Surfacing, Add	104.40	
07 52 13 11-0008	SQ 160 Mil, Fire Rated, Granule Surfaced, Atactic-Polypropylene (APP) Modified Bitumen Cap Sheet, Cold Adhesive Applied	343.41	
	For Up To 10, Add	76.80	
	For >10 To 20, Add	40.43	
	For >20 To 40, Add	21.23	
	For >75 To 100, Deduct	-10.61	
	For >100 To 200, Deduct	-22.24	
	For >200, Deduct	-32.86	
	For Factory Applied White Reflective Surfacing, Add	104.40	
07 52 13 11-0009	SQ 180 Mil, Fire Rated, Granule Surfaced, Atactic-Polypropylene (APP) Modified Bitumen Cap Sheet, Cold Adhesive Applied	472.56	
	For Up To 10, Add	102.63	
	For >10 To 20, Add	53.34	
	For >20 To 40, Add	27.69	
	For >75 To 100, Deduct	-13.84	
	For >100 To 200, Deduct	-28.70	
	For >200, Deduct	-42.54	
	For Factory Applied White Reflective Surfacing, Add	104.40	
07 52 13 11-0010	Cold Adhesive Applied, Atactic-Polypropylene (APP) Modified Bitumen Roofing Flashing <small>(07 52 13 11-0001)</small>		
07 52 13 11-0011	SF 160 Mil, Smooth Surfaced, Atactic-Polypropylene (APP) Modified Bitumen Flashing, Cold Adhesive Applied	5.98	
07 52 13 11-0012	SF 180 Mil, Fire Rated, Granule Surfaced, Atactic-Polypropylene (APP) Modified Bitumen Flashing, Cold Adhesive Applied	9.15	
	For Factory Applied White Reflective Surfacing, Add	1.04	
07 52 13 13	Torch-Applied Atactic-Polypropylene-Modified Bituminous Membrane Roofing <small>(07 52 13)</small>		

07 Thermal And Moisture Protection**07 50 Membrane Roofing****07 52 Modified Bituminous Membrane Roofing**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

07 52 13 13-0001	Torch-Applied Atactic-Polypropylene (APP) Modified Bituminous Membrane Roofing ^(07 52 13 13)	
	Note: Includes fiberglass and/or polyester reinforcement. Includes adhering the membrane with a torch.	
07 52 13 13-0002	Torch-Applied, Atactic-Polypropylene (APP) Modified Bitumen Roofing Base, Ply And Cap Sheets ^(07 52 13 13-0001)	
07 52 13 13-0003	SQ 80 Mil, Atactic-Polypropylene (APP) Modified Bitumen Base Sheet, Torch-Applied.....	154.14
	For Up To 10, Add	38.23
	For >10 To 20, Add	20.97
	For >20 To 40, Add	11.41
	For >75 To 100, Deduct	-5.70
	For >100 To 200, Deduct	-12.33
	For >200, Deduct	-18.04
07 52 13 13-0004	SQ 90 Mil, Atactic-Polypropylene (APP) Modified Bitumen Base Or Ply Sheet, Torch-Applied.....	201.01
	For Up To 10, Add	47.60
	For >10 To 20, Add	25.65
	For >20 To 40, Add	13.75
	For >75 To 100, Deduct	-6.88
	For >100 To 200, Deduct	-14.68
	For >200, Deduct	-21.55
07 52 13 13-0005	SQ 150 Mil, Atactic-Polypropylene (APP) Modified Bitumen Ply Sheet, Torch-Applied.....	241.59
	For Up To 10, Add	59.44
	For >10 To 20, Add	32.50
	For >20 To 40, Add	17.64
	For >75 To 100, Deduct	-8.82
	For >100 To 200, Deduct	-19.03
	For >200, Deduct	-27.85
07 52 13 13-0006	SQ 160 Mil, Atactic-Polypropylene (APP) Modified Bitumen Ply Sheet, Torch-Applied.....	253.58
	For Up To 10, Add	61.83
	For >10 To 20, Add	33.70
	For >20 To 40, Add	18.24
	For >75 To 100, Deduct	-9.12
	For >100 To 200, Deduct	-19.63
	For >200, Deduct	-28.75
07 52 13 13-0007	SQ 180 Mil, Atactic-Polypropylene (APP) Modified Bitumen Ply Sheet, Torch-Applied.....	350.93
	For Up To 10, Add	81.30
	For >10 To 20, Add	43.43
	For >20 To 40, Add	23.11
	For >75 To 100, Deduct	-11.55
	For >100 To 200, Deduct	-24.50
	For >200, Deduct	-36.05
07 52 13 13-0008	SQ 150 Mil, Smooth Surfaced, Atactic-Polypropylene (APP) Modified Bitumen Cap Sheet, Torch-Applied.....	241.59
	For Up To 10, Add	59.44
	For >10 To 20, Add	32.50
	For >20 To 40, Add	17.64
	For >75 To 100, Deduct	-8.82
	For >100 To 200, Deduct	-19.03
	For >200, Deduct	-27.85
07 52 13 13-0009	SQ 160 Mil, Smooth Surfaced, Atactic-Polypropylene (APP) Modified Bitumen Cap Sheet, Torch-Applied.....	256.58
	For Up To 10, Add	62.43
	For >10 To 20, Add	34.00
	For >20 To 40, Add	18.39
	For >75 To 100, Deduct	-9.19
	For >100 To 200, Deduct	-19.78
	For >200, Deduct	-28.97
07 52 13 13-0010	SQ 180 Mil, Smooth Surfaced, Atactic-Polypropylene (APP) Modified Bitumen Cap Sheet, Torch-Applied.....	350.93
	For Up To 10, Add	81.30
	For >10 To 20, Add	43.43
	For >20 To 40, Add	23.11
	For >75 To 100, Deduct	-11.55
	For >100 To 200, Deduct	-24.50
	For >200, Deduct	-36.05
07 52 13 13-0011	SQ 160 Mil, Granule Surfaced, Atactic-Polypropylene (APP) Modified Bitumen Cap Sheet, Torch-Applied.....	251.03
	For Up To 10, Add	61.32
	For >10 To 20, Add	33.44
	For >20 To 40, Add	18.11
	For >75 To 100, Deduct	-9.06
	For >100 To 200, Deduct	-19.50
	For >200, Deduct	-28.56
	For Factory Applied White Reflective Surfacing, Add	104.40
07 52 13 13-0012	SQ 170 Mil, Granule Surfaced, Atactic-Polypropylene (APP) Modified Bitumen Cap Sheet, Torch-Applied.....	265.58
	For Up To 10, Add	64.23
	For >10 To 20, Add	34.90
	For >20 To 40, Add	18.84
	For >75 To 100, Deduct	-9.42
	For >100 To 200, Deduct	-20.23
	For >200, Deduct	-29.65
	For Factory Applied White Reflective Surfacing, Add	104.40
07 52 13 13-0013	SQ 160 Mil, Fire Rated, Granule Surfaced, Atactic-Polypropylene (APP) Modified Bitumen Cap Sheet, Torch-Applied.....	301.28
	For Up To 10, Add	71.37
	For >10 To 20, Add	38.47
	For >20 To 40, Add	20.62
	For >75 To 100, Deduct	-10.31
	For >100 To 200, Deduct	-22.01
	For >200, Deduct	-32.32
	For Factory Applied White Reflective Surfacing, Add	104.40



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 52 13 13-0014 SQ 170 Mil, Fire Rated, Granule Surfaced, Atactic-Polypropylene (APP) Modified Bitumen Cap Sheet, Torch-Applied.....	305.63	
<i>For Up To 10, Add</i>	72.24	
<i>For >10 To 20, Add</i>	38.90	
<i>For >20 To 40, Add</i>	20.84	
<i>For >75 To 100, Deduct</i>	-10.42	
<i>For >100 To 200, Deduct</i>	-22.23	
<i>For >200, Deduct</i>	-32.65	
<i>For Factory Applied White Reflective Surfacing, Add</i>	104.40	
07 52 13 13-0015 SQ 180 Mil, Fire Rated, Granule Surfaced, Atactic-Polypropylene (APP) Modified Bitumen Cap Sheet, Torch-Applied.....	427.58	
<i>For Up To 10, Add</i>	96.63	
<i>For >10 To 20, Add</i>	51.10	
<i>For >20 To 40, Add</i>	26.94	
<i>For >75 To 100, Deduct</i>	-13.47	
<i>For >100 To 200, Deduct</i>	-28.33	
<i>For >200, Deduct</i>	-41.80	
<i>For Factory Applied White Reflective Surfacing, Add</i>	104.40	
07 52 13 13-0016 Torch-Applied, Atactic-Polypropylene (APP) Modified Bitumen Roofing Flashing <small>(07 52 13 13-0001)</small>		
07 52 13 13-0017 SF 150 Mil, Smooth Surfaced, Atactic-Polypropylene (APP) Modified Bitumen Flashing, Torch-Applied	3.52	
07 52 13 13-0018 SF 160 Mil, Smooth Surfaced, Atactic-Polypropylene (APP) Modified Bitumen Flashing, Torch-Applied	3.67	
07 52 13 13-0019 SF 180 Mil, Smooth Surfaced, Atactic-Polypropylene (APP) Modified Bitumen Flashing, Torch-Applied	4.61	
07 52 13 13-0020 SF 170 Mil, Granule Surfaced, Atactic-Polypropylene (APP) Modified Bitumen Flashing, Torch-Applied.....	3.76	
<i>For Factory Applied White Reflective Surfacing, Add</i>	1.04	
07 52 13 13-0021 SF 170 Mil, Fire Rated, Granule Surfaced, Atactic-Polypropylene (APP) Modified Bitumen Flashing, Torch-Applied	4.16	
<i>For Factory Applied White Reflective Surfacing, Add</i>	1.04	
07 52 13 13-0022 SF 180 Mil, Fire Rated, Granule Surfaced, Atactic-Polypropylene (APP) Modified Bitumen Flashing, Torch-Applied	5.38	
<i>For Factory Applied White Reflective Surfacing, Add</i>	1.04	
07 52 13 14 Mechanically Fastened Atactic-Polypropylene-Modified Bituminous Membrane Roofing <small>(07 52 13)</small>		
07 52 13 14-0001 Mechanically Fastened Atactic-Polypropylene (APP) Modified Bituminous Membrane Roofing <small>(07 52 13 14)</small>		
Note: Includes fiberglass and/or polyester reinforcement. Includes fasteners.		
07 52 13 14-0002 Mechanically Fastened, Atactic-Polypropylene (APP) Modified Bitumen Roofing Base And Ply Sheets <small>(07 52 13 14-0001)</small>		
07 52 13 14-0003 SQ 90 Mil, Atactic-Polypropylene (APP) Modified Bitumen Base Or Ply Sheet, Mechanically Fastened	229.22	
<i>For Up To 10, Add</i>	49.55	
<i>For >10 To 20, Add</i>	25.70	
<i>For >20 To 40, Add</i>	13.31	
<i>For >75 To 100, Deduct</i>	-6.66	
<i>For >100 To 200, Deduct</i>	-13.77	
<i>For >200, Deduct</i>	-20.43	
07 52 16 Styrene-Butadiene-Styrene Modified Bituminous Membrane Roofing <small>(07 52)</small>		
Note: Includes all standard manufacturers' colors including white for granule and smooth surfaced cap sheets and flashing. See CSI section 07 51 13 00-0001 for additional components such as concrete primers, cant strips, surfacing, walkway boards, demolition and warranties.		
07 52 16 11 Cold Adhesive Applied Styrene-Butadiene-Styrene Modified Bituminous Membrane Roofing <small>(07 52 16)</small>		
07 52 16 11-0001 Cold Adhesive Applied Styrene-Butadiene-Styrene (SBS) Modified Bituminous Membrane Roofing <small>(07 52 16 11)</small>		
Note: Includes fiberglass and/or polyester reinforcement. Includes applying cold adhesive and embedding the membrane. Includes heat welding side and end laps when required.		
07 52 16 11-0002 Cold Adhesive Applied, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Roofing Base, Ply And Cap Sheets <small>(07 52 16 11-0001)</small>		
07 52 16 11-0003 SQ 50 Mil, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Base Sheet, Cold Adhesive Applied	168.30	
<i>For Up To 10, Add</i>	41.07	
<i>For >10 To 20, Add</i>	22.39	
<i>For >20 To 40, Add</i>	12.12	
<i>For >75 To 100, Deduct</i>	-6.06	
<i>For >100 To 200, Deduct</i>	-13.05	
<i>For >200, Deduct</i>	-19.11	
07 52 16 11-0004 SQ 80 Mil, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Base Sheet, Cold Adhesive Applied	220.33	
<i>For Up To 10, Add</i>	51.48	
<i>For >10 To 20, Add</i>	27.59	
<i>For >20 To 40, Add</i>	14.72	
<i>For >75 To 100, Deduct</i>	-7.36	
<i>For >100 To 200, Deduct</i>	-15.65	
<i>For >200, Deduct</i>	-23.01	

07 Thermal And Moisture Protection**07 50 Membrane Roofing****07 52 Modified Bituminous Membrane Roofing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 52 16 11-0005	SQ		90 Mil, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Base Sheet, Cold Adhesive Applied.....	227.04	
			<i>For Up To 10, Add</i>	52.82	
			<i>For >10 To 20, Add</i>	28.26	
			<i>For >20 To 40, Add</i>	15.06	
			<i>For >75 To 100, Deduct</i>	-7.53	
			<i>For >100 To 200, Deduct</i>	-15.98	
			<i>For >200, Deduct</i>	-23.51	
07 52 16 11-0006	SQ		120 Mil, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Base Or Ply Sheet, Cold Adhesive Applied.....	310.04	
			<i>For Up To 10, Add</i>	69.42	
			<i>For >10 To 20, Add</i>	36.56	
			<i>For >20 To 40, Add</i>	19.21	
			<i>For >75 To 100, Deduct</i>	-9.60	
			<i>For >100 To 200, Deduct</i>	-20.13	
			<i>For >200, Deduct</i>	-29.74	
07 52 16 11-0007	SQ		125 Mil, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Ply Sheet, Cold Adhesive Applied.....	394.04	
			<i>For Up To 10, Add</i>	86.22	
			<i>For >10 To 20, Add</i>	44.96	
			<i>For >20 To 40, Add</i>	23.41	
			<i>For >75 To 100, Deduct</i>	-11.70	
			<i>For >100 To 200, Deduct</i>	-24.33	
			<i>For >200, Deduct</i>	-36.04	
07 52 16 11-0008	SQ		140 Mil, Smooth Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Cold Adhesive Applied.....	327.93	
			<i>For Up To 10, Add</i>	73.70	
			<i>For >10 To 20, Add</i>	38.88	
			<i>For >20 To 40, Add</i>	20.45	
			<i>For >75 To 100, Deduct</i>	-10.23	
			<i>For >100 To 200, Deduct</i>	-21.47	
			<i>For >200, Deduct</i>	-31.69	
07 52 16 11-0009	SQ		150 Mil, Smooth Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Cold Adhesive Applied.....	336.96	
			<i>For Up To 10, Add</i>	75.51	
			<i>For >10 To 20, Add</i>	39.78	
			<i>For >20 To 40, Add</i>	20.91	
			<i>For >75 To 100, Deduct</i>	-10.45	
			<i>For >100 To 200, Deduct</i>	-21.92	
			<i>For >200, Deduct</i>	-32.37	
07 52 16 11-0010	SQ		125 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Cold Adhesive Applied.....	294.66	
			<i>For Up To 10, Add</i>	67.05	
			<i>For >10 To 20, Add</i>	35.55	
			<i>For >20 To 40, Add</i>	18.79	
			<i>For >75 To 100, Deduct</i>	-9.40	
			<i>For >100 To 200, Deduct</i>	-19.80	
			<i>For >200, Deduct</i>	-29.20	
			<i>For Factory Applied White Reflective Surfacing, Add</i>	104.40	
07 52 16 11-0011	SQ		140 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Cold Adhesive Applied.....	298.56	
			<i>For Up To 10, Add</i>	67.83	
			<i>For >10 To 20, Add</i>	35.94	
			<i>For >20 To 40, Add</i>	18.99	
			<i>For >75 To 100, Deduct</i>	-9.49	
			<i>For >100 To 200, Deduct</i>	-20.00	
			<i>For >200, Deduct</i>	-29.49	
			<i>For Factory Applied White Reflective Surfacing, Add</i>	104.40	
07 52 16 11-0012	SQ		150 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Cold Adhesive Applied.....	334.56	
			<i>For Up To 10, Add</i>	75.03	
			<i>For >10 To 20, Add</i>	39.54	
			<i>For >20 To 40, Add</i>	20.79	
			<i>For >75 To 100, Deduct</i>	-10.39	
			<i>For >100 To 200, Deduct</i>	-21.80	
			<i>For >200, Deduct</i>	-32.19	
			<i>For Factory Applied White Reflective Surfacing, Add</i>	104.40	
07 52 16 11-0013	SQ		160 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Cold Adhesive Applied.....	340.56	
			<i>For Up To 10, Add</i>	76.23	
			<i>For >10 To 20, Add</i>	40.14	
			<i>For >20 To 40, Add</i>	21.09	
			<i>For >75 To 100, Deduct</i>	-10.54	
			<i>For >100 To 200, Deduct</i>	-22.10	
			<i>For >200, Deduct</i>	-32.64	
			<i>For Factory Applied White Reflective Surfacing, Add</i>	104.40	
07 52 16 11-0014	SQ		170 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Cold Adhesive Applied.....	393.06	
			<i>For Up To 10, Add</i>	86.73	
			<i>For >10 To 20, Add</i>	45.39	
			<i>For >20 To 40, Add</i>	23.71	
			<i>For >75 To 100, Deduct</i>	-11.86	
			<i>For >100 To 200, Deduct</i>	-24.72	
			<i>For >200, Deduct</i>	-36.58	
			<i>For Factory Applied White Reflective Surfacing, Add</i>	104.40	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 52 16 11-0015 SQ 180 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Cold Adhesive Applied	488.70	
<i>For Up To 10, Add</i>	105.85	
<i>For >10 To 20, Add</i>	54.96	
<i>For >20 To 40, Add</i>	28.49	
<i>For >75 To 100, Deduct</i>	-14.25	
<i>For >100 To 200, Deduct</i>	-29.51	
<i>For >200, Deduct</i>	-43.75	
<i>For Factory Applied White Reflective Surfacing, Add</i>	104.40	
07 52 16 11-0016 SQ 125 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Cold Adhesive Applied.....	301.17	
<i>For Up To 10, Add</i>	68.35	
<i>For >10 To 20, Add</i>	36.20	
<i>For >20 To 40, Add</i>	19.12	
<i>For >75 To 100, Deduct</i>	-9.56	
<i>For >100 To 200, Deduct</i>	-20.13	
<i>For >200, Deduct</i>	-29.69	
<i>For Factory Applied White Reflective Surfacing, Add</i>	104.40	
07 52 16 11-0017 SQ 140 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Cold Adhesive Applied.....	310.56	
<i>For Up To 10, Add</i>	70.23	
<i>For >10 To 20, Add</i>	37.14	
<i>For >20 To 40, Add</i>	19.59	
<i>For >75 To 100, Deduct</i>	-9.79	
<i>For >100 To 200, Deduct</i>	-20.60	
<i>For >200, Deduct</i>	-30.39	
<i>For Factory Applied White Reflective Surfacing, Add</i>	104.40	
07 52 16 11-0018 SQ 150 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Cold Adhesive Applied.....	361.56	
<i>For Up To 10, Add</i>	80.43	
<i>For >10 To 20, Add</i>	42.24	
<i>For >20 To 40, Add</i>	22.14	
<i>For >75 To 100, Deduct</i>	-11.07	
<i>For >100 To 200, Deduct</i>	-23.15	
<i>For >200, Deduct</i>	-34.22	
<i>For Factory Applied White Reflective Surfacing, Add</i>	104.40	
07 52 16 11-0019 SQ 160 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Cold Adhesive Applied.....	362.76	
<i>For Up To 10, Add</i>	80.67	
<i>For >10 To 20, Add</i>	42.36	
<i>For >20 To 40, Add</i>	22.20	
<i>For >75 To 100, Deduct</i>	-11.10	
<i>For >100 To 200, Deduct</i>	-23.21	
<i>For >200, Deduct</i>	-34.31	
<i>For Factory Applied White Reflective Surfacing, Add</i>	104.40	
07 52 16 11-0020 SQ 170 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Cold Adhesive Applied.....	385.56	
<i>For Up To 10, Add</i>	85.23	
<i>For >10 To 20, Add</i>	44.64	
<i>For >20 To 40, Add</i>	23.34	
<i>For >75 To 100, Deduct</i>	-11.67	
<i>For >100 To 200, Deduct</i>	-24.35	
<i>For >200, Deduct</i>	-36.02	
<i>For Factory Applied White Reflective Surfacing, Add</i>	104.40	
07 52 16 11-0021 Cold Adhesive Applied, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Roofing Flashing (07 52 16 11-0001)		
07 52 16 11-0022 SF 150 Mil, Smooth Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Cold Adhesive Applied	5.21	
07 52 16 11-0023 SF 125 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Cold Adhesive Applied.....	4.79	
<i>For Factory Applied White Reflective Surfacing, Add</i>	1.04	
07 52 16 11-0024 SF 140 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Cold Adhesive Applied.....	4.82	
<i>For Factory Applied White Reflective Surfacing, Add</i>	1.04	
07 52 16 11-0025 SF 160 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Cold Adhesive Applied.....	5.24	
<i>For Factory Applied White Reflective Surfacing, Add</i>	1.04	
07 52 16 11-0026 SF 170 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Cold Adhesive Applied.....	5.77	
<i>For Factory Applied White Reflective Surfacing, Add</i>	1.04	
07 52 16 11-0027 SF 180 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Cold Adhesive Applied.....	6.73	
<i>For Factory Applied White Reflective Surfacing, Add</i>	1.04	
07 52 16 11-0028 SF 125 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Cold Adhesive Applied.....	4.85	
<i>For Factory Applied White Reflective Surfacing, Add</i>	1.04	
07 52 16 11-0029 SF 140 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Cold Adhesive Applied.....	4.94	
<i>For Factory Applied White Reflective Surfacing, Add</i>	1.04	
07 52 16 11-0030 SF 160 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Cold Adhesive Applied.....	5.47	
<i>For Factory Applied White Reflective Surfacing, Add</i>	1.04	
07 52 16 11-0031 SF 170 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Cold Adhesive Applied.....	5.69	
<i>For Factory Applied White Reflective Surfacing, Add</i>	1.04	
07 52 16 11-0032 SF 145 Mil, Aluminum Foil Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Cold Adhesive Applied	7.56	
07 52 16 11-0033 SF 160 Mil, Copper Foil Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Cold Adhesive Applied	14.30	

07 Thermal And Moisture Protection**07 50 Membrane Roofing****07 52 Modified Bituminous Membrane Roofing**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST**07 52 16 12 Hot-Mopped Styrene-Butadiene-Styrene Modified Bituminous Membrane Roofing** (07 52 16)

07 52 16 12-0001	Hot-Mopped Styrene-Butadiene-Styrene (SBS) Modified Bituminous Membrane Roofing <small>(07 52 16 12)</small>	
	Note: Includes fiberglass and/or polyester reinforcement. Includes mopping hot asphalt and embedding the membrane.	
07 52 16 12-0002	Hot-Mopped, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Roofing Base, Ply And Cap Sheets <small>(07 52 16 12-0001)</small>	
07 52 16 12-0003	SQ 50 Mil, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Base Sheet, Hot-Mopped.....	137.71
	For Up To 10, Add	35.09
	For >10 To 20, Add	19.43
	For >20 To 40, Add	10.66
	For >75 To 100, Deduct	-5.33
	For >100 To 200, Deduct	-11.60
	For >200, Deduct	-16.93
07 52 16 12-0004	SQ 80 Mil, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Base Sheet, Hot-Mopped.....	189.75
	For Up To 10, Add	45.49
	For >10 To 20, Add	24.63
	For >20 To 40, Add	13.26
	For >75 To 100, Deduct	-6.63
	For >100 To 200, Deduct	-14.20
	For >200, Deduct	-20.83
07 52 16 12-0005	SQ 90 Mil, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Base Sheet, Hot-Mopped.....	196.46
	For Up To 10, Add	46.84
	For >10 To 20, Add	25.30
	For >20 To 40, Add	13.60
	For >75 To 100, Deduct	-6.80
	For >100 To 200, Deduct	-14.54
	For >200, Deduct	-21.34
07 52 16 12-0006	SQ 120 Mil, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Base Or Ply Sheet, Hot-Mopped.....	279.46
	For Up To 10, Add	63.44
	For >10 To 20, Add	33.60
	For >20 To 40, Add	17.75
	For >75 To 100, Deduct	-8.87
	For >100 To 200, Deduct	-18.69
	For >200, Deduct	-27.56
07 52 16 12-0007	SQ 125 Mil, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Ply Sheet, Hot-Mopped.....	363.46
	For Up To 10, Add	80.24
	For >10 To 20, Add	42.00
	For >20 To 40, Add	21.95
	For >75 To 100, Deduct	-10.97
	For >100 To 200, Deduct	-22.89
	For >200, Deduct	-33.86
07 52 16 12-0008	SQ 140 Mil, Smooth Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Hot-Mopped.....	297.41
	For Up To 10, Add	67.74
	For >10 To 20, Add	35.94
	For >20 To 40, Add	19.00
	For >75 To 100, Deduct	-9.50
	For >100 To 200, Deduct	-20.03
	For >200, Deduct	-29.53
07 52 16 12-0009	SQ 150 Mil, Smooth Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Hot-Mopped.....	306.44
	For Up To 10, Add	69.55
	For >10 To 20, Add	36.84
	For >20 To 40, Add	19.45
	For >75 To 100, Deduct	-9.73
	For >100 To 200, Deduct	-20.48
	For >200, Deduct	-30.21
07 52 16 12-0010	SQ 125 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Hot-Mopped.....	264.14
	For Up To 10, Add	61.09
	For >10 To 20, Add	32.61
	For >20 To 40, Add	17.34
	For >75 To 100, Deduct	-8.67
	For >100 To 200, Deduct	-18.37
	For >200, Deduct	-27.04
	For Factory Applied White Reflective Surfacing, Add	104.40
07 52 16 12-0011	SQ 140 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Hot-Mopped.....	268.04
	For Up To 10, Add	61.87
	For >10 To 20, Add	33.00
	For >20 To 40, Add	17.53
	For >75 To 100, Deduct	-8.77
	For >100 To 200, Deduct	-18.56
	For >200, Deduct	-27.33
	For Factory Applied White Reflective Surfacing, Add	104.40
07 52 16 12-0012	SQ 150 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Hot-Mopped.....	304.04
	For Up To 10, Add	69.07
	For >10 To 20, Add	36.60
	For >20 To 40, Add	19.33
	For >75 To 100, Deduct	-9.67
	For >100 To 200, Deduct	-20.36
	For >200, Deduct	-30.03
	For Factory Applied White Reflective Surfacing, Add	104.40



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 52 16 12-0013 SQ 160 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Hot-Mopped	310.04	
<i>For Up To 10, Add</i>	70.27	
<i>For >10 To 20, Add</i>	37.20	
<i>For >20 To 40, Add</i>	19.63	
<i>For >75 To 100, Deduct</i>	-9.82	
<i>For >100 To 200, Deduct</i>	-20.66	
<i>For >200, Deduct</i>	-30.48	
<i>For Factory Applied White Reflective Surfacing, Add</i>	104.40	
07 52 16 12-0014 SQ 170 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Hot-Mopped	362.54	
<i>For Up To 10, Add</i>	80.77	
<i>For >10 To 20, Add</i>	42.45	
<i>For >20 To 40, Add</i>	22.26	
<i>For >75 To 100, Deduct</i>	-11.13	
<i>For >100 To 200, Deduct</i>	-23.29	
<i>For >200, Deduct</i>	-34.42	
<i>For Factory Applied White Reflective Surfacing, Add</i>	104.40	
07 52 16 12-0015 SQ 180 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Hot-Mopped	458.17	
<i>For Up To 10, Add</i>	99.89	
<i>For >10 To 20, Add</i>	52.01	
<i>For >20 To 40, Add</i>	27.04	
<i>For >75 To 100, Deduct</i>	-13.52	
<i>For >100 To 200, Deduct</i>	-28.07	
<i>For >200, Deduct</i>	-41.59	
<i>For Factory Applied White Reflective Surfacing, Add</i>	104.40	
07 52 16 12-0016 SQ 125 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Hot-Mopped	270.65	
<i>For Up To 10, Add</i>	62.39	
<i>For >10 To 20, Add</i>	33.26	
<i>For >20 To 40, Add</i>	17.66	
<i>For >75 To 100, Deduct</i>	-8.83	
<i>For >100 To 200, Deduct</i>	-18.70	
<i>For >200, Deduct</i>	-27.53	
<i>For Factory Applied White Reflective Surfacing, Add</i>	104.40	
07 52 16 12-0017 SQ 140 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Hot-Mopped	280.04	
<i>For Up To 10, Add</i>	64.27	
<i>For >10 To 20, Add</i>	34.20	
<i>For >20 To 40, Add</i>	18.13	
<i>For >75 To 100, Deduct</i>	-9.07	
<i>For >100 To 200, Deduct</i>	-19.16	
<i>For >200, Deduct</i>	-28.23	
<i>For Factory Applied White Reflective Surfacing, Add</i>	104.40	
07 52 16 12-0018 SQ 150 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Hot-Mopped	331.04	
<i>For Up To 10, Add</i>	74.47	
<i>For >10 To 20, Add</i>	39.30	
<i>For >20 To 40, Add</i>	20.68	
<i>For >75 To 100, Deduct</i>	-10.34	
<i>For >100 To 200, Deduct</i>	-21.71	
<i>For >200, Deduct</i>	-32.06	
<i>For Factory Applied White Reflective Surfacing, Add</i>	104.40	
07 52 16 12-0019 SQ 160 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Hot-Mopped	332.24	
<i>For Up To 10, Add</i>	74.71	
<i>For >10 To 20, Add</i>	39.42	
<i>For >20 To 40, Add</i>	20.74	
<i>For >75 To 100, Deduct</i>	-10.37	
<i>For >100 To 200, Deduct</i>	-21.77	
<i>For >200, Deduct</i>	-32.15	
<i>For Factory Applied White Reflective Surfacing, Add</i>	104.40	
07 52 16 12-0020 SQ 170 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Hot-Mopped	355.04	
<i>For Up To 10, Add</i>	79.27	
<i>For >10 To 20, Add</i>	41.70	
<i>For >20 To 40, Add</i>	21.88	
<i>For >75 To 100, Deduct</i>	-10.94	
<i>For >100 To 200, Deduct</i>	-22.91	
<i>For >200, Deduct</i>	-33.86	
<i>For Factory Applied White Reflective Surfacing, Add</i>	104.40	
07 52 16 12-0021 Hot-Mopped, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Roofing Flashing <small>(07 52 16 12-0001)</small>		
07 52 16 12-0022 SF 150 Mil, Smooth Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Hot-Mopped	5.01	
07 52 16 12-0023 SF 125 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Hot-Mopped	4.59	
<i>For Factory Applied White Reflective Surfacing, Add</i>	1.04	
07 52 16 12-0024 SF 140 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Hot-Mopped	4.62	
<i>For Factory Applied White Reflective Surfacing, Add</i>	1.04	
07 52 16 12-0025 SF 150 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Hot-Mopped	4.98	
<i>For Factory Applied White Reflective Surfacing, Add</i>	1.04	
07 52 16 12-0026 SF 160 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Hot-Mopped	5.04	
<i>For Factory Applied White Reflective Surfacing, Add</i>	1.04	
07 52 16 12-0027 SF 170 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Hot-Mopped	5.57	
<i>For Factory Applied White Reflective Surfacing, Add</i>	1.04	
07 52 16 12-0028 SF 180 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Hot-Mopped	6.53	
<i>For Factory Applied White Reflective Surfacing, Add</i>	1.04	

07 Thermal And Moisture Protection**07 50 Membrane Roofing****07 52 Modified Bituminous Membrane Roofing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 52 16 12-0029	SF		125 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Hot-Mopped.....	4.65	
			<i>For Factory Applied White Reflective Surfacing, Add</i>	1.04	
07 52 16 12-0030	SF		140 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Hot-Mopped.....	4.74	
			<i>For Factory Applied White Reflective Surfacing, Add</i>	1.04	
07 52 16 12-0031	SF		160 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Hot-Mopped.....	5.17	
			<i>For Factory Applied White Reflective Surfacing, Add</i>	1.04	
07 52 16 12-0032	SF		170 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Hot-Mopped.....	5.49	
			<i>For Factory Applied White Reflective Surfacing, Add</i>	1.04	
07 52 16 12-0033	SF		145 Mil, Aluminum Foil Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Hot-Mopped.....	7.36	
07 52 16 12-0034	SF		160 Mil, Copper Foil Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Hot-Mopped.....	14.10	

07 52 16 13 Torch-Applied Styrene-Butadiene-Styrene Modified Bituminous Membrane Roofing (07 52 16)

07 52 16 13-0001 Torch-Applied Styrene-Butadiene-Styrene (SBS) Modified Bituminous Membrane Roofing (07 52 16 13)

Note: Includes fiberglass and/or polyester reinforcement. Includes adhering the membrane with a torch.

07 52 16 13-0002 Torch-Applied, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Roofing Base, Ply And Cap Sheets (07 52 16 13-0001)

07 52 16 13-0003	SQ		120 Mil, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Base Or Ply Sheet, Torch-Applied.....	283.58	
			<i>For Up To 10, Add</i>	67.83	
			<i>For >10 To 20, Add</i>	36.70	
			<i>For >20 To 40, Add</i>	19.74	
			<i>For >75 To 100, Deduct</i>	-9.87	
			<i>For >100 To 200, Deduct</i>	-21.13	
			<i>For >200, Deduct</i>	-31.00	
07 52 16 13-0004	SQ		150 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Torch-Applied.....	254.48	
			<i>For Up To 10, Add</i>	62.01	
			<i>For >10 To 20, Add</i>	33.79	
			<i>For >20 To 40, Add</i>	18.28	
			<i>For >75 To 100, Deduct</i>	-9.14	
			<i>For >100 To 200, Deduct</i>	-19.67	
			<i>For >200, Deduct</i>	-28.81	
			<i>For Factory Applied White Reflective Surfacing, Add</i>	104.40	
07 52 16 13-0005	SQ		160 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Torch-Applied.....	288.68	
			<i>For Up To 10, Add</i>	68.85	
			<i>For >10 To 20, Add</i>	37.21	
			<i>For >20 To 40, Add</i>	19.99	
			<i>For >75 To 100, Deduct</i>	-10.00	
			<i>For >100 To 200, Deduct</i>	-21.38	
			<i>For >200, Deduct</i>	-31.38	
			<i>For Factory Applied White Reflective Surfacing, Add</i>	104.40	
07 52 16 13-0006	SQ		180 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Torch-Applied.....	443.72	
			<i>For Up To 10, Add</i>	99.86	
			<i>For >10 To 20, Add</i>	52.71	
			<i>For >20 To 40, Add</i>	27.75	
			<i>For >75 To 100, Deduct</i>	-13.87	
			<i>For >100 To 200, Deduct</i>	-29.13	
			<i>For >200, Deduct</i>	-43.01	
			<i>For Factory Applied White Reflective Surfacing, Add</i>	104.40	
07 52 16 13-0007	SQ		150 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Torch-Applied.....	264.26	
			<i>For Up To 10, Add</i>	63.97	
			<i>For >10 To 20, Add</i>	34.76	
			<i>For >20 To 40, Add</i>	18.77	
			<i>For >75 To 100, Deduct</i>	-9.39	
			<i>For >100 To 200, Deduct</i>	-20.16	
			<i>For >200, Deduct</i>	-29.55	
			<i>For Factory Applied White Reflective Surfacing, Add</i>	104.40	
07 52 16 13-0008	SQ		160 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Torch-Applied.....	304.58	
			<i>For Up To 10, Add</i>	72.03	
			<i>For >10 To 20, Add</i>	38.80	
			<i>For >20 To 40, Add</i>	20.79	
			<i>For >75 To 100, Deduct</i>	-10.39	
			<i>For >100 To 200, Deduct</i>	-22.18	
			<i>For >200, Deduct</i>	-32.57	
			<i>For Factory Applied White Reflective Surfacing, Add</i>	104.40	
07 52 16 13-0009	SQ		165 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Torch-Applied.....	317.57	
			<i>For Up To 10, Add</i>	74.83	
			<i>For >10 To 20, Add</i>	40.24	
			<i>For >20 To 40, Add</i>	21.54	
			<i>For >75 To 100, Deduct</i>	-10.77	
			<i>For >100 To 200, Deduct</i>	-22.95	
			<i>For >200, Deduct</i>	-33.72	
			<i>For Factory Applied White Reflective Surfacing, Add</i>	104.40	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 52 16 13-0010 SQ 180 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Torch-Applied	411.68	
<i>For Up To 10, Add</i>	93.65	
<i>For >10 To 20, Add</i>	49.66	
<i>For >20 To 40, Add</i>	26.24	
<i>For >75 To 100, Deduct</i>	-13.12	
<i>For >100 To 200, Deduct</i>	-27.66	
<i>For >200, Deduct</i>	-40.78	
<i>For Factory Applied White Reflective Surfacing, Add</i>	104.40	
07 52 16 13-0011 Torch-Applied, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Roofing Flashing (07 52 16 13-0001)		
07 52 16 13-0012 SF 150 Mil, Smooth Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Torch-Applied	4.02	
07 52 16 13-0013 SF 150 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Torch-Applied	4.00	
<i>For Factory Applied White Reflective Surfacing, Add</i>	1.04	
07 52 16 13-0014 SF 180 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Torch-Applied	5.54	
<i>For Factory Applied White Reflective Surfacing, Add</i>	1.04	
07 52 16 13-0015 SF 160 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Torch-Applied	4.19	
<i>For Factory Applied White Reflective Surfacing, Add</i>	1.04	
07 52 16 13-0016 SF 165 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Torch-Applied	4.27	
<i>For Factory Applied White Reflective Surfacing, Add</i>	1.04	
07 52 16 13-0017 SF 180 Mil, Fire Rated, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Torch-Applied	5.22	
<i>For Factory Applied White Reflective Surfacing, Add</i>	1.04	
07 52 16 13-0018 SF 150 Mil, Aluminum Foil Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Torch-Applied	5.42	
07 52 16 13-0019 SF 160 Mil, Copper Foil Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Torch-Applied	13.12	
07 52 16 14 Mechanically Fastened Styrene-Butadiene-Styrene Modified Bituminous Membrane Roofing (07 52 16)		
07 52 16 14-0001 Mechanically Fastened Styrene-Butadiene-Styrene (SBS) Modified Bituminous Membrane Roofing (07 52 16 14)		
<i>Note: Includes fiberglass and/or polyester reinforcement. Includes fasteners.</i>		
07 52 16 14-0002 Mechanically Fastened, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Roofing Base And Ply Sheets (07 52 16 14-0001)		
07 52 16 14-0003 SQ 35 Mil, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Ply Sheet, Mechanically Fastened	177.52	
<i>For Up To 10, Add</i>	39.21	
<i>For >10 To 20, Add</i>	20.53	
<i>For >20 To 40, Add</i>	10.73	
<i>For >75 To 100, Deduct</i>	-5.36	
<i>For >100 To 200, Deduct</i>	-11.19	
<i>For >200, Deduct</i>	-16.55	
07 52 16 14-0004 SQ 50 Mil, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Base Sheet, Mechanically Fastened	136.47	
<i>For Up To 10, Add</i>	31.00	
<i>For >10 To 20, Add</i>	16.42	
<i>For >20 To 40, Add</i>	8.67	
<i>For >75 To 100, Deduct</i>	-4.34	
<i>For >100 To 200, Deduct</i>	-9.14	
<i>For >200, Deduct</i>	-13.47	
07 52 16 14-0005 SQ 80 Mil, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Base Sheet, Mechanically Fastened	176.88	
<i>For Up To 10, Add</i>	39.08	
<i>For >10 To 20, Add</i>	20.46	
<i>For >20 To 40, Add</i>	10.70	
<i>For >75 To 100, Deduct</i>	-5.35	
<i>For >100 To 200, Deduct</i>	-11.16	
<i>For >200, Deduct</i>	-16.51	
07 52 16 14-0006 SQ 90 Mil, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Base Sheet, Mechanically Fastened	221.52	
<i>For Up To 10, Add</i>	48.01	
<i>For >10 To 20, Add</i>	24.93	
<i>For >20 To 40, Add</i>	12.93	
<i>For >75 To 100, Deduct</i>	-6.46	
<i>For >100 To 200, Deduct</i>	-13.39	
<i>For >200, Deduct</i>	-19.85	
07 52 16 14-0007 SQ 120 Mil, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Base Or Ply Sheet, Mechanically Fastened	278.22	
<i>For Up To 10, Add</i>	59.35	
<i>For >10 To 20, Add</i>	30.60	
<i>For >20 To 40, Add</i>	15.76	
<i>For >75 To 100, Deduct</i>	-7.88	
<i>For >100 To 200, Deduct</i>	-16.22	
<i>For >200, Deduct</i>	-24.11	
07 52 16 14-0008 Mechanically Fastened, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Roofing Flashing (07 52 16 14-0001)		
07 52 16 14-0009 SF 150 Mil, Smooth Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Mechanically Fastened	3.47	
07 52 16 14-0010 SF 160 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Mechanically Fastened	3.55	

07 Thermal And Moisture Protection**07 50 Membrane Roofing****07 52 Modified Bituminous Membrane Roofing**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST**07 52 16 15 Self-Adhering Styrene-Butadiene-Styrene Modified Bituminous Membrane Roofing** (07 52 16)

07 52 16 15-0001	Self-Adhering Styrene-Butadiene-Styrene (SBS) Modified Bituminous Membrane Roofing <small>(07 52 16 15)</small>		
	Note: Includes fiberglass and/or polyester reinforcement. Includes removing the release film(s) from the membrane and applying the membrane.		
07 52 16 15-0002	Self-Adhering, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Roofing Base, Ply And Cap Sheets <small>(07 52 16 15-0001)</small>		
07 52 16 15-0003	SQ 60 Mil, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Base Sheet, Self-Adhering.....	142.12	
	For Up To 10, Add	32.87	
	For >10 To 20, Add	17.55	
	For >20 To 40, Add	9.33	
	For >75 To 100, Deduct	-4.66	
	For >100 To 200, Deduct	-9.88	
	For >200, Deduct	-14.55	
07 52 16 15-0004	SQ 70 Mil, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Base Sheet, Self-Adhering.....	150.63	
	For Up To 10, Add	34.57	
	For >10 To 20, Add	18.40	
	For >20 To 40, Add	9.75	
	For >75 To 100, Deduct	-4.88	
	For >100 To 200, Deduct	-10.31	
	For >200, Deduct	-15.19	
07 52 16 15-0005	SQ 120 Mil, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Base Sheet, Self-Adhering.....	254.53	
	For Up To 10, Add	55.69	
	For >10 To 20, Add	29.04	
	For >20 To 40, Add	15.12	
	For >75 To 100, Deduct	-7.56	
	For >100 To 200, Deduct	-15.71	
	For >200, Deduct	-23.27	
07 52 16 15-0006	SQ 150 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Self-Adhering.....	304.39	
	For Up To 10, Add	65.66	
	For >10 To 20, Add	34.02	
	For >20 To 40, Add	17.61	
	For >75 To 100, Deduct	-8.80	
	For >100 To 200, Deduct	-18.21	
	For >200, Deduct	-27.01	
	For Factory Applied White Reflective Surfacing, Add	104.40	
07 52 16 15-0007	SQ 160 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Cap Sheet, Self-Adhering.....	451.39	
	For Up To 10, Add	95.06	
	For >10 To 20, Add	48.72	
	For >20 To 40, Add	24.96	
	For >75 To 100, Deduct	-12.48	
	For >100 To 200, Deduct	-25.56	
	For >200, Deduct	-38.04	
	For Factory Applied White Reflective Surfacing, Add	104.40	
07 52 16 15-0008	Self-Adhering, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Roofing Flashing <small>(07 52 16 15-0001)</small>		
07 52 16 15-0009	SF 70 Mil, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Self-Adhering.....	3.98	
07 52 16 15-0010	SF 150 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Self-Adhering.....	4.46	
	For Factory Applied White Reflective Surfacing, Add	1.04	
07 52 16 15-0011	SF 160 Mil, Granule Surfaced, Styrene-Butadiene-Styrene (SBS) Modified Bitumen Flashing, Self-Adhering.....	5.93	
	For Factory Applied White Reflective Surfacing, Add	1.04	

07 53 Elastomeric Membrane Roofing (07 50)

Note: Includes 10 year warranty. All warranties are no dollar limit to include material, equipment and labor. Excludes concrete primer, insulation, slip sheets, wood nailers, cant strips, coping removal and reinstallation, gravel stop, walkway pads and drainage devices. See CSI section 07 26 13 00-0000 for wood deck building paper.

07 53 16 Chlorosulfonate-Polyethylene Roofing (07 53)**07 53 16 00-0001 Chlorosulfonated Polyethylene-Hypalon (CSPE) Roofing Membranes** (07 53 16)

Note: Includes hot air welding or adhesive bonding of seams.

07 53 16 00-0002	SQ 45 Mil, Single Ply Chlorosulfonated Polyethylene-Hypalon (CSPE) Roofing Membrane, Fully Adhered.....	604.20	88.93
	Note: Includes adhesive.		
	For Up To 10, Add	156.41	
	For >10 To 20, Add	87.10	
	For >20 To 40, Add	48.00	
	For >75 To 100, Deduct	-24.00	
	For >100 To 200, Deduct	-52.44	
	For >200, Deduct	-76.44	
	For 15 Year Warranty, Add	3.00	
07 53 16 00-0003	SQ 45 Mil, Single Ply Chlorosulfonated Polyethylene-Hypalon (CSPE) Roofing Membrane, Ballasted.....	464.56	44.47
	Note: Includes ballast.		
	For Up To 10, Add	110.70	
	For >10 To 20, Add	59.80	
	For >20 To 40, Add	32.12	
	For >75 To 100, Deduct	-16.06	
	For >100 To 200, Deduct	-34.34	
	For >200, Deduct	-50.40	
	For 15 Year Warranty, Add	3.00	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 53 16 00-0004 SQ 45 Mil, Single Ply Chlorosulfonated Polyethylene-Hypalon (CSPE) Roofing Membrane, Mechanically Fastened.....	493.35	66.70
Note: Includes fasteners.		
For Up To 10, Add	125.35	
For >10 To 20, Add	69.35	
For >20 To 40, Add	38.01	
For >75 To 100, Deduct	-19.00	
For >100 To 200, Deduct	-41.34	
For >200, Deduct	-60.35	
For 15 Year Warranty, Add	3.00	
For Mechanically Fastened To Concrete Decks, Add	33.35	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum Decks, Add	34.62	
07 53 23 Ethylene-Propylene-Diene-Monomer Roofing ^(07 53)		
07 53 23 00-0001 Ethylene Propylene Diene Monomer (EPDM) Roofing Membranes ^(07 53 23)		
Note: Includes splicing of seams using adhesive or seam tape. Black ethylene propylene diene monomer (EPDM).		
07 53 23 00-0002 SQ 45 Mil, Single Ply Ethylene Propylene Diene Monomer (EPDM) Roofing Membrane, Ballasted	313.66	44.47
Note: Includes ballast.		
For Up To 10, Add	80.52	
For >10 To 20, Add	44.71	
For >20 To 40, Add	24.58	
For >75 To 100, Deduct	-12.29	
For >100 To 200, Deduct	-26.80	
For >200, Deduct	-39.09	
For 15 Year Warranty, Add	3.00	
For Low Slope Fire Rated, Add	8.39	
For Reinforced Ethylene Propylene Diene Monomer (EPDM), Add	31.49	
07 53 23 00-0003 SQ 60 Mil, Single Ply Ethylene Propylene Diene Monomer (EPDM) Roofing Membrane, Ballasted	408.86	47.24
Note: Includes ballast.		
For Up To 10, Add	100.67	
For >10 To 20, Add	55.06	
For >20 To 40, Add	29.89	
For >75 To 100, Deduct	-14.95	
For >100 To 200, Deduct	-32.25	
For >200, Deduct	-47.20	
For 15 Year Warranty, Add	3.00	
For 20 Year Warranty, Add	7.00	
For 25 Year Warranty, Add	9.00	
For Low Slope Fire Rated, Add	8.39	
For Reinforced Ethylene Propylene Diene Monomer (EPDM), Add	31.49	
07 53 23 00-0004 SQ 90 Mil, Single Ply Ethylene Propylene Diene Monomer (EPDM) Roofing Membrane, Ballasted	555.48	50.02
Note: Includes ballast.		
For Up To 10, Add	131.11	
For >10 To 20, Add	70.56	
For >20 To 40, Add	37.78	
For >75 To 100, Deduct	-18.89	
For >100 To 200, Deduct	-40.28	
For >200, Deduct	-59.17	
For 15 Year Warranty, Add	3.00	
For 20 Year Warranty, Add	7.00	
For 25 Year Warranty, Add	9.00	
For Low Slope Fire Rated, Add	8.39	
07 53 23 00-0005 SQ 45 Mil, Single Ply Ethylene Propylene Diene Monomer (EPDM) Roofing Membrane, Partially Adhered (40%)	376.36	66.70
Note: Includes adhesive and fasteners.		
For Up To 10, Add	101.95	
For >10 To 20, Add	57.65	
For >20 To 40, Add	32.16	
For >75 To 100, Deduct	-16.08	
For >100 To 200, Deduct	-35.49	
For >200, Deduct	-51.57	
For 15 Year Warranty, Add	3.00	
For Low Slope Fire Rated, Add	8.39	
For Low VOC Adhesive, Add	23.35	
For Reinforced Ethylene Propylene Diene Monomer (EPDM), Add	31.49	
For White Ethylene Propylene Diene Monomer (EPDM) Or Factory Applied White Coating, Add	80.04	
For Integral Polyester Fleece-Backing, Add	108.12	
07 53 23 00-0006 SQ 60 Mil, Single Ply Ethylene Propylene Diene Monomer (EPDM) Roofing Membrane, Partially Adhered (40%)	471.55	69.48
Note: Includes adhesive and fasteners.		
For Up To 10, Add	122.10	
For >10 To 20, Add	68.00	
For >20 To 40, Add	37.47	
For >75 To 100, Deduct	-18.74	
For >100 To 200, Deduct	-40.95	
For >200, Deduct	-59.68	
For 15 Year Warranty, Add	3.00	
For 20 Year Warranty, Add	7.00	
For 25 Year Warranty, Add	9.00	
For Low Slope Fire Rated, Add	8.39	
For Low VOC Adhesive, Add	23.35	
For Reinforced Ethylene Propylene Diene Monomer (EPDM), Add	31.49	
For White Ethylene Propylene Diene Monomer (EPDM) Or Factory Applied White Coating, Add	80.04	
For Integral Polyester Fleece-Backing, Add	120.42	

07 Thermal And Moisture Protection**07 50 Membrane Roofing****07 53 Elastomeric Membrane Roofing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 53 23 00-0007	SQ		90 Mil, Single Ply Ethylene Propylene Diene Monomer (EPDM) Roofing Membrane, Partially Adhered (40%) .....618.18 Note: Includes adhesive and fasteners.	618.18	72.25
			<i>For Up To 10, Add</i>	152.54	
			<i>For >10 To 20, Add</i>	83.50	
			<i>For >20 To 40, Add</i>	45.36	
			<i>For >75 To 100, Deduct</i>	-22.68	
			<i>For >100 To 200, Deduct</i>	-48.97	
			<i>For >200, Deduct</i>	-71.65	
			<i>For 15 Year Warranty, Add</i>	3.00	
			<i>For 20 Year Warranty, Add</i>	7.00	
			<i>For 25 Year Warranty, Add</i>	9.00	
			<i>For Low Slope Fire Rated, Add</i>	8.39	
			<i>For Low VOC Adhesive, Add</i>	23.35	
			<i>For White Ethylene Propylene Diene Monomer (EPDM) Or Factory Applied White Coating, Add</i>	80.04	
			<i>For Integral Polyester Fleece-Backing, Add</i>	133.84	
07 53 23 00-0008	SQ		45 Mil, Single Ply Ethylene Propylene Diene Monomer (EPDM) Roofing Membrane, Fully Adhered .....496.26 Note: Includes adhesive and fasteners.	496.26	88.93
			<i>For Up To 10, Add</i>	134.82	
			<i>For >10 To 20, Add</i>	76.31	
			<i>For >20 To 40, Add</i>	42.60	
			<i>For >75 To 100, Deduct</i>	-21.30	
			<i>For >100 To 200, Deduct</i>	-47.05	
			<i>For >200, Deduct</i>	-68.35	
			<i>For 15 Year Warranty, Add</i>	3.00	
			<i>For Low Slope Fire Rated, Add</i>	8.39	
			<i>For Reinforced Ethylene Propylene Diene Monomer (EPDM), Add</i>	31.49	
			<i>For Low VOC Adhesive, Add</i>	58.38	
			<i>For White Ethylene Propylene Diene Monomer (EPDM) Or Factory Applied White Coating, Add</i>	80.04	
			<i>For Integral Polyester Fleece-Backing, Add</i>	108.12	
07 53 23 00-0009	SQ		60 Mil, Single Ply Ethylene Propylene Diene Monomer (EPDM) Roofing Membrane, Fully Adhered .....591.46 Note: Includes adhesive and fasteners.	591.46	91.71
			<i>For Up To 10, Add</i>	154.98	
			<i>For >10 To 20, Add</i>	86.66	
			<i>For >20 To 40, Add</i>	47.92	
			<i>For >75 To 100, Deduct</i>	-23.96	
			<i>For >100 To 200, Deduct</i>	-52.50	
			<i>For >200, Deduct</i>	-76.46	
			<i>For 15 Year Warranty, Add</i>	3.00	
			<i>For 20 Year Warranty, Add</i>	7.00	
			<i>For 25 Year Warranty, Add</i>	9.00	
			<i>For Low Slope Fire Rated, Add</i>	8.39	
			<i>For Reinforced Ethylene Propylene Diene Monomer (EPDM), Add</i>	31.49	
			<i>For Low VOC Adhesive, Add</i>	58.38	
			<i>For White Ethylene Propylene Diene Monomer (EPDM) Or Factory Applied White Coating, Add</i>	80.04	
			<i>For Integral Polyester Fleece-Backing, Add</i>	120.42	
07 53 23 00-0010	SQ		90 Mil, Single Ply Ethylene Propylene Diene Monomer (EPDM) Roofing Membrane, Fully Adhered .....738.07 Note: Includes adhesive and fasteners.	738.07	94.49
			<i>For Up To 10, Add</i>	185.41	
			<i>For >10 To 20, Add</i>	102.15	
			<i>For >20 To 40, Add</i>	55.80	
			<i>For >75 To 100, Deduct</i>	-27.90	
			<i>For >100 To 200, Deduct</i>	-60.53	
			<i>For >200, Deduct</i>	-88.43	
			<i>For 15 Year Warranty, Add</i>	3.00	
			<i>For 20 Year Warranty, Add</i>	7.00	
			<i>For 25 Year Warranty, Add</i>	9.00	
			<i>For Low Slope Fire Rated, Add</i>	8.39	
			<i>For Low VOC Adhesive, Add</i>	58.38	
			<i>For White Ethylene Propylene Diene Monomer (EPDM) Or Factory Applied White Coating, Add</i>	80.04	
			<i>For Integral Polyester Fleece-Backing, Add</i>	133.84	
07 53 23 00-0011	SQ		45 Mil, Single Ply Ethylene Propylene Diene Monomer (EPDM) Roofing Membrane, Mechanically Fastened .....342.21 Note: Includes fasteners.	342.21	66.70
			<i>For Up To 10, Add</i>	95.12	
			<i>For >10 To 20, Add</i>	54.23	
			<i>For >20 To 40, Add</i>	30.45	
			<i>For >75 To 100, Deduct</i>	-15.23	
			<i>For >100 To 200, Deduct</i>	-33.79	
			<i>For >200, Deduct</i>	-49.01	
			<i>For 15 Year Warranty, Add</i>	3.00	
			<i>For Low Slope Fire Rated, Add</i>	8.39	
			<i>For Reinforced Ethylene Propylene Diene Monomer (EPDM), Add</i>	31.49	
			<i>For White Ethylene Propylene Diene Monomer (EPDM) Or Factory Applied White Coating, Add</i>	80.04	
			<i>For Mechanically Fastened To Concrete Decks, Add</i>	33.35	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum Decks, Add</i>	34.62	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 53 23 00-0012 SQ 60 Mil, Single Ply Ethylene Propylene Diene Monomer (EPDM) Roofing Membrane, Mechanically Fastened	437.40	69.48
Note: Includes fasteners.		
For Up To 10, Add	115.27	
For >10 To 20, Add	64.58	
For >20 To 40, Add	35.77	
For >75 To 100, Deduct	-17.88	
For >100 To 200, Deduct	-39.24	
For >200, Deduct	-57.12	
For 15 Year Warranty, Add	3.00	
For 20 Year Warranty, Add	7.00	
For 25 Year Warranty, Add	9.00	
For Low Slope Fire Rated, Add	8.39	
For Reinforced Ethylene Propylene Diene Monomer (EPDM), Add	31.49	
For White Ethylene Propylene Diene Monomer (EPDM) Or Factory Applied White Coating, Add	80.04	
For Mechanically Fastened To Concrete Decks, Add	34.74	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum Decks, Add	36.01	
07 53 23 00-0013 SQ 90 Mil, Single Ply Ethylene Propylene Diene Monomer (EPDM) Roofing Membrane, Mechanically Fastened	584.03	72.25
Note: Includes fasteners.		
For Up To 10, Add	145.71	
For >10 To 20, Add	80.08	
For >20 To 40, Add	43.65	
For >75 To 100, Deduct	-21.83	
For >100 To 200, Deduct	-47.27	
For >200, Deduct	-69.09	
For 15 Year Warranty, Add	3.00	
For 20 Year Warranty, Add	7.00	
For 25 Year Warranty, Add	9.00	
For Low Slope Fire Rated, Add	8.39	
For White Ethylene Propylene Diene Monomer (EPDM) Or Factory Applied White Coating, Add	80.04	
For Mechanically Fastened To Concrete Decks, Add	36.13	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum Decks, Add	37.40	
07 53 23 00-0014 Ethylene Propylene Diene Monomer (EPDM) Roofing Membrane		
Accessories (07 53 23)		
07 53 23 00-0015 SQ Acrylic, Ethylene Propylene Diene Monomer (EPDM) Roofing Primer, Price Per Coat	71.30	
For Up To 10, Add	18.71	
For >10 To 20, Add	10.46	
For >20 To 40, Add	5.79	
For >75 To 100, Deduct	-2.89	
For >100 To 200, Deduct	-6.34	
For >200, Deduct	-9.24	
07 53 23 00-0016 SQ Acrylic Elastomeric, Surface Or Base Coating For Ethylene Propylene Diene Monomer (EPDM) Roofing, Price Per Coat	73.75	
Note: 55% solids by volume.		
For Up To 10, Add	19.20	
For >10 To 20, Add	10.71	
For >20 To 40, Add	5.91	
For >75 To 100, Deduct	-2.96	
For >100 To 200, Deduct	-6.47	
For >200, Deduct	-9.42	
07 53 23 00-0017 EA Up To 4" Pipe Diameter, Prefabricated Ethylene Propylene Diene Monomer (EPDM) Pipe Cone/Boot.....	44.95	10.56
Note: Includes attaching the boot to the membrane, caulking around the pipe and installing a draw band.		
07 53 23 00-0018 EA >4" To 8" Pipe Diameter, Prefabricated Ethylene Propylene Diene Monomer (EPDM) Pipe Cone/Boot.....	64.32	10.56
Note: Includes attaching the boot to the membrane, caulking around the pipe and installing a draw band.		
07 53 23 00-0019 EA >8" To 13" Pipe Diameter, Prefabricated Ethylene Propylene Diene Monomer (EPDM) Pipe Cone/Boot.....	120.20	10.56
Note: Includes attaching the boot to the membrane, caulking around the pipe and installing a draw band.		
07 53 23 00-0020 EA 6" Diameter, Prefabricated Ethylene Propylene Diene Monomer (EPDM) Penetration Pocket	159.40	11.67
Note: Includes attaching the pocket to the membrane, sealing around the penetration and filling the pocket with pourable sealer.		
07 53 23 00-0021 LF 30" Wide, Ethylene Propylene Diene Monomer (EPDM) Walkway Protection Pad	34.93	6.45
Note: Includes factory installed peel and stick adhesive tape.		
07 53 23 00-0022 SF Ethylene Propylene Diene Monomer (EPDM) Membrane Base Flashing	6.64	1.66
07 53 23 00-0023 SF Ethylene Propylene Diene Monomer (EPDM) Membrane Curb Flashing	8.30	2.50
07 53 29 Polyisobutylene Roofing (07 53)		
07 53 29 00-0001 Polyisobutylene (PIB) Roofing Membranes (07 53 29)		
Note: Includes integral polyester fleece-backing. Includes splicing of seams using adhesive or seam tape.		
07 53 29 00-0002 SQ 100 Mil, Single Ply PIB Roofing Membrane, Ballasted	518.09	50.02
Note: Includes ballast.		
For Up To 10, Add	123.63	
For >10 To 20, Add	66.82	
For >20 To 40, Add	35.91	
For >75 To 100, Deduct	-17.95	
For >100 To 200, Deduct	-38.41	
For >200, Deduct	-56.37	
For 15 Year Warranty, Add	3.00	
For 20 Year Warranty, Add	7.00	
For 25 Year Warranty, Add	9.00	

07 Thermal And Moisture Protection**07 50 Membrane Roofing****07 53 Elastomeric Membrane Roofing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 53 29 00-0003	SQ		100 Mil, Single Ply PIB Roofing Membrane, Partially Adhered (40%)	578.70	72.25
			Note: Includes adhesive.		
			For Up To 10, Add	144.64	
			For >10 To 20, Add	79.55	
			For >20 To 40, Add	43.39	
			For >75 To 100, Deduct	-21.69	
			For >100 To 200, Deduct	-47.00	
			For >200, Deduct	-68.69	
			For 15 Year Warranty, Add	3.00	
			For 20 Year Warranty, Add	7.00	
			For 25 Year Warranty, Add	9.00	
07 53 29 00-0004	SQ		100 Mil, Single Ply PIB Roofing Membrane, Fully Adhered	695.46	94.49
			Note: Includes adhesive.		
			For Up To 10, Add	176.89	
			For >10 To 20, Add	97.89	
			For >20 To 40, Add	53.67	
			For >75 To 100, Deduct	-26.84	
			For >100 To 200, Deduct	-58.40	
			For >200, Deduct	-85.23	
			For 15 Year Warranty, Add	3.00	
			For 20 Year Warranty, Add	7.00	
			For 25 Year Warranty, Add	9.00	

07 54 Thermoplastic Membrane Roofing (07 50)

Note: Includes 10 year warranty. All warranties are no dollar limit to include material, equipment and labor. Excludes concrete primer, insulation, slip sheets, wood nailers, cant strips, coping removal and reinstallation, gravel stop, walkway pads and drainage devices. See CSI section 07 26 13 00-0000 for wood deck building paper.

07 54 19 Polyvinyl-Chloride Roofing (07 54)**07 54 19 00-0001 Reinforced Polyvinyl Chloride (RPVC) Roofing Membranes** (07 54 19)

Note: Includes polyester fabric reinforcement and hot air welding of seams. RPVC membranes meet or exceed all of the requirements of ASTM D4434 Type III.

07 54 19 00-0002	SQ		48 Mil, Single Ply Reinforced Polyvinyl Chloride (RPVC) Roofing Membrane, Ballasted	206.92	44.47
			Note: Includes ballast.		
			For Up To 10, Add	59.17	
			For >10 To 20, Add	34.03	
			For >20 To 40, Add	19.24	
			For >75 To 100, Deduct	-9.62	
			For >100 To 200, Deduct	-21.46	
			For >200, Deduct	-31.08	
			For 15 Year Warranty, Add	3.00	
			For Colors, Add	26.00	
			For Integral Polyester Fleece-Backing, Add	30.28	
07 54 19 00-0003	SQ		60 Mil, Single Ply Reinforced Polyvinyl Chloride (RPVC) Roofing Membrane, Ballasted	228.31	47.24
			Note: Includes ballast.		
			For Up To 10, Add	64.56	
			For >10 To 20, Add	37.00	
			For >20 To 40, Add	20.86	
			For >75 To 100, Deduct	-10.43	
			For >100 To 200, Deduct	-23.23	
			For >200, Deduct	-33.66	
			For 15 Year Warranty, Add	3.00	
			For 20 Year Warranty, Add	7.00	
			For 25 Year Warranty, Add	9.00	
			For Colors, Add	26.00	
			For Integral Polyester Fleece-Backing, Add	30.28	
07 54 19 00-0004	SQ		72 Mil, Single Ply Reinforced Polyvinyl Chloride (RPVC) Roofing Membrane, Ballasted	251.33	48.63
			Note: Includes ballast.		
			For Up To 10, Add	69.72	
			For >10 To 20, Add	39.72	
			For >20 To 40, Add	22.29	
			For >75 To 100, Deduct	-11.15	
			For >100 To 200, Deduct	-24.73	
			For >200, Deduct	-35.87	
			For 15 Year Warranty, Add	3.00	
			For 20 Year Warranty, Add	7.00	
			For 25 Year Warranty, Add	9.00	
			For Colors, Add	26.00	
			For Integral Polyester Fleece-Backing, Add	30.28	
07 54 19 00-0005	SQ		80 Mil, Single Ply Reinforced Polyvinyl Chloride (RPVC) Roofing Membrane, Ballasted	262.91	50.02
			Note: Includes ballast.		
			For Up To 10, Add	72.59	
			For >10 To 20, Add	41.30	
			For >20 To 40, Add	23.15	
			For >75 To 100, Deduct	-11.58	
			For >100 To 200, Deduct	-25.65	
			For >200, Deduct	-37.23	
			For 15 Year Warranty, Add	3.00	
			For 20 Year Warranty, Add	7.00	
			For 25 Year Warranty, Add	9.00	
			For Colors, Add	26.00	
			For Integral Polyester Fleece-Backing, Add	30.28	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 54 19 00-0006 SQ 48 Mil, Single Ply Reinforced Polyvinyl Chloride (RPVC) Roofing Membrane, Fully Adhered.....	412.44	88.93
Note: Includes adhesive.		
<i>For Up To 10, Add</i>	118.06	
<i>For >10 To 20, Add</i>	67.92	
<i>For >20 To 40, Add</i>	38.41	
<i>For >75 To 100, Deduct</i>	-19.20	
<i>For >100 To 200, Deduct</i>	-42.85	
<i>For >200, Deduct</i>	-62.06	
<i>For 15 Year Warranty, Add</i>	3.00	
<i>For Colors, Add</i>	26.00	
<i>For Low VOC Adhesive, Add</i>	80.85	
<i>For Integral Polyester Fleece-Backing, Add</i>	30.28	
07 54 19 00-0007 SQ 60 Mil, Single Ply Reinforced Polyvinyl Chloride (RPVC) Roofing Membrane, Fully Adhered.....	433.85	91.71
Note: Includes adhesive.		
<i>For Up To 10, Add</i>	123.46	
<i>For >10 To 20, Add</i>	70.90	
<i>For >20 To 40, Add</i>	40.04	
<i>For >75 To 100, Deduct</i>	-20.02	
<i>For >100 To 200, Deduct</i>	-44.62	
<i>For >200, Deduct</i>	-64.64	
<i>For 15 Year Warranty, Add</i>	3.00	
<i>For 20 Year Warranty, Add</i>	7.00	
<i>For 25 Year Warranty, Add</i>	9.00	
<i>For Colors, Add</i>	26.00	
<i>For Low VOC Adhesive, Add</i>	80.85	
<i>For Integral Polyester Fleece-Backing, Add</i>	30.28	
07 54 19 00-0008 SQ 72 Mil, Single Ply Reinforced Polyvinyl Chloride (RPVC) Roofing Membrane, Fully Adhered.....	456.86	93.10
Note: Includes adhesive.		
<i>For Up To 10, Add</i>	128.61	
<i>For >10 To 20, Add</i>	73.62	
<i>For >20 To 40, Add</i>	41.46	
<i>For >75 To 100, Deduct</i>	-20.73	
<i>For >100 To 200, Deduct</i>	-46.12	
<i>For >200, Deduct</i>	-66.85	
<i>For 15 Year Warranty, Add</i>	3.00	
<i>For 20 Year Warranty, Add</i>	7.00	
<i>For 25 Year Warranty, Add</i>	9.00	
<i>For Colors, Add</i>	26.00	
<i>For Low VOC Adhesive, Add</i>	80.85	
<i>For Integral Polyester Fleece-Backing, Add</i>	30.28	
07 54 19 00-0009 SQ 80 Mil, Single Ply Reinforced Polyvinyl Chloride (RPVC) Roofing Membrane, Fully Adhered.....	468.43	94.49
Note: Includes adhesive.		
<i>For Up To 10, Add</i>	131.48	
<i>For >10 To 20, Add</i>	75.19	
<i>For >20 To 40, Add</i>	42.32	
<i>For >75 To 100, Deduct</i>	-21.16	
<i>For >100 To 200, Deduct</i>	-47.04	
<i>For >200, Deduct</i>	-68.20	
<i>For 15 Year Warranty, Add</i>	3.00	
<i>For 20 Year Warranty, Add</i>	7.00	
<i>For 25 Year Warranty, Add</i>	9.00	
<i>For Colors, Add</i>	26.00	
<i>For Low VOC Adhesive, Add</i>	80.85	
<i>For Integral Polyester Fleece-Backing, Add</i>	30.28	
07 54 19 00-0010 SQ 48 Mil, Single Ply Reinforced Polyvinyl Chloride (RPVC) Roofing Membrane, Mechanically Fastened	227.52	66.70
Note: Includes fasteners.		
<i>For Up To 10, Add</i>	72.18	
<i>For >10 To 20, Add</i>	42.76	
<i>For >20 To 40, Add</i>	24.72	
<i>For >75 To 100, Deduct</i>	-12.36	
<i>For >100 To 200, Deduct</i>	-28.05	
<i>For >200, Deduct</i>	-40.41	
<i>For 15 Year Warranty, Add</i>	3.00	
<i>For Colors, Add</i>	26.00	
<i>For Integral Polyester Fleece-Backing, Add</i>	30.28	
<i>For Mechanically Fastened To Concrete Decks, Add</i>	33.35	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum Decks, Add</i>	34.62	
07 54 19 00-0011 SQ 60 Mil, Single Ply Reinforced Polyvinyl Chloride (RPVC) Roofing Membrane, Mechanically Fastened	248.90	69.48
Note: Includes fasteners.		
<i>For Up To 10, Add</i>	77.57	
<i>For >10 To 20, Add</i>	45.73	
<i>For >20 To 40, Add</i>	26.34	
<i>For >75 To 100, Deduct</i>	-13.17	
<i>For >100 To 200, Deduct</i>	-29.81	
<i>For >200, Deduct</i>	-42.98	
<i>For 15 Year Warranty, Add</i>	3.00	
<i>For 20 Year Warranty, Add</i>	7.00	
<i>For 25 Year Warranty, Add</i>	9.00	
<i>For Colors, Add</i>	26.00	
<i>For Integral Polyester Fleece-Backing, Add</i>	30.28	
<i>For Mechanically Fastened To Concrete Decks, Add</i>	34.74	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum Decks, Add</i>	36.01	

07 Thermal And Moisture Protection**07 50 Membrane Roofing****07 54 Thermoplastic Membrane Roofing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 54	19 00-0012	SQ	72 Mil, Single Ply Reinforced Polyvinyl Chloride (RPVC) Roofing Membrane, Mechanically Fastened Note: Includes fasteners.	271.93	70.87
			<i>For Up To 10, Add</i>	82.73	
			<i>For >10 To 20, Add</i>	48.45	
			<i>For >20 To 40, Add</i>	27.77	
			<i>For >75 To 100, Deduct</i>	-13.89	
			<i>For >100 To 200, Deduct</i>	-31.31	
			<i>For >200, Deduct</i>	-45.20	
			<i>For 15 Year Warranty, Add</i>	3.00	
			<i>For 20 Year Warranty, Add</i>	7.00	
			<i>For 25 Year Warranty, Add</i>	9.00	
			<i>For Colors, Add</i>	26.00	
			<i>For Integral Polyester Fleece-Backing, Add</i>	30.28	
			<i>For Mechanically Fastened To Concrete Decks, Add</i>	35.44	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum Decks, Add</i>	36.71	
07 54	19 00-0013	SQ	80 Mil, Single Ply Reinforced Polyvinyl Chloride (RPVC) Roofing Membrane, Mechanically Fastened Note: Includes fasteners.	283.51	72.25
			<i>For Up To 10, Add</i>	85.61	
			<i>For >10 To 20, Add</i>	50.03	
			<i>For >20 To 40, Add</i>	28.63	
			<i>For >75 To 100, Deduct</i>	-14.31	
			<i>For >100 To 200, Deduct</i>	-32.24	
			<i>For >200, Deduct</i>	-46.55	
			<i>For 15 Year Warranty, Add</i>	3.00	
			<i>For 20 Year Warranty, Add</i>	7.00	
			<i>For 25 Year Warranty, Add</i>	9.00	
			<i>For Colors, Add</i>	26.00	
			<i>For Integral Polyester Fleece-Backing, Add</i>	30.28	
			<i>For Mechanically Fastened To Concrete Decks, Add</i>	36.13	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum Decks, Add</i>	37.40	
07 54	19 00-0014		Reinforced Polyvinyl Chloride (RPVC) Roofing Membrane Accessories (07 54 19)		
07 54	19 00-0015	SQ	Acrylic, Polyvinyl Chloride (PVC) Roofing Cleaner/Primer, Price Per Coat..... <i>For Up To 10, Add</i>	71.30	
			<i>For >10 To 20, Add</i>	18.71	
			<i>For >20 To 40, Add</i>	10.46	
			<i>For >75 To 100, Deduct</i>	5.79	
			<i>For >100 To 200, Deduct</i>	-2.89	
			<i>For >200, Deduct</i>	-6.34	
				-9.24	
07 54	19 00-0016	SQ	Acrylic Elastomeric, Surface Or Base Coating For Polyvinyl Chloride (PVC) Roofing, Price Per Coat..... Note: 55% solids by volume.	73.75	
			<i>For Up To 10, Add</i>	19.20	
			<i>For >10 To 20, Add</i>	10.71	
			<i>For >20 To 40, Add</i>	5.91	
			<i>For >75 To 100, Deduct</i>	-2.96	
			<i>For >100 To 200, Deduct</i>	-6.47	
			<i>For >200, Deduct</i>	-9.42	
07 54	19 00-0017	EA	Up To 3" Pipe Diameter, Prefabricated Polyvinyl Chloride (PVC) Pipe Cone/Boot..... Note: Includes attaching the boot to the membrane, caulking around the pipe and installing a draw band.	74.44	9.45
07 54	19 00-0018	EA	>3" To 7" Pipe Diameter, Prefabricated Polyvinyl Chloride (PVC) Pipe Cone/Boot..... Note: Includes attaching the boot to the membrane, caulking around the pipe and installing a draw band.	104.50	10.56
07 54	19 00-0019	EA	>7" To 12" Pipe Diameter, Prefabricated Polyvinyl Chloride (PVC) Pipe Cone/Boot..... Note: Includes attaching the boot to the membrane, caulking around the pipe and installing a draw band.	133.65	11.67
07 54	19 00-0020	EA	6" Diameter, Prefabricated Polyvinyl Chloride (PVC) Penetration Pocket..... Note: Includes attaching the pocket to the membrane, sealing around the penetration and filling the pocket with pourable sealer.	170.02	11.67
07 54	19 00-0021	LF	36" Wide, Polyvinyl Chloride (PVC) Walkway Protection Pad.....	29.94	6.45
07 54	19 00-0022	SF	Polyvinyl Chloride (PVC) Membrane Base Flashing.....	7.90	1.66
07 54	19 00-0023	SF	Polyvinyl Chloride (PVC) Membrane Curb Flashing.....	9.56	2.50
07 54	19 00-0024	SF	Polyvinyl Chloride (PVC) Clad Edge Metal Or Base Flashing..... Note: 20 Mil polyvinyl chloride (PVC) membrane laminated to 24 gauge galvanized steel.	10.68	1.66
07 54	23		Thermoplastic-Polyolefin Roofing (07 54)		
07 54	23 00-0001		Thermoplastic Polyolefin (TPO) Roofing Membranes (07 54 23)		
			Note: Includes polyester fabric reinforcement and hot air welding of seams.		
07 54	23 00-0002	SQ	45 Mil, Single Ply TPO Roofing Membrane, Fully Adhered..... Note: Includes adhesive.	439.71	88.93
			<i>For Up To 10, Add</i>	123.51	
			<i>For >10 To 20, Add</i>	70.65	
			<i>For >20 To 40, Add</i>	39.77	
			<i>For >75 To 100, Deduct</i>	-19.89	
			<i>For >100 To 200, Deduct</i>	-44.22	
			<i>For >200, Deduct</i>	-64.10	
			<i>For 15 Year Warranty, Add</i>	3.00	
			<i>For Low VOC Adhesive, Add</i>	58.38	
			<i>For Integral Polyester Fleece-Backing, Add</i>	33.25	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 54 23 00-0003 SQ 50 Mil, Single Ply TPO Roofing Membrane, Fully Adhered	460.13	90.32
Note: Includes adhesive.		
<i>For Up To 10, Add</i>	128.15	
<i>For >10 To 20, Add</i>	73.11	
<i>For >20 To 40, Add</i>	41.07	
<i>For >75 To 100, Deduct</i>	-20.54	
<i>For >100 To 200, Deduct</i>	-45.59	
<i>For >200, Deduct</i>	-66.12	
<i>For 15 Year Warranty, Add</i>	3.00	
<i>For 20 Year Warranty, Add</i>	7.00	
<i>For 25 Year Warranty, Add</i>	9.00	
<i>For Low VOC Adhesive, Add</i>	58.38	
<i>For Integral Polyester Fleece-Backing, Add</i>	33.25	
07 54 23 00-0004 SQ 60 Mil, Single Ply TPO Roofing Membrane, Fully Adhered	470.77	91.71
Note: Includes adhesive.		
<i>For Up To 10, Add</i>	130.84	
<i>For >10 To 20, Add</i>	74.59	
<i>For >20 To 40, Add</i>	41.88	
<i>For >75 To 100, Deduct</i>	-20.94	
<i>For >100 To 200, Deduct</i>	-46.47	
<i>For >200, Deduct</i>	-67.41	
<i>For 15 Year Warranty, Add</i>	3.00	
<i>For 20 Year Warranty, Add</i>	7.00	
<i>For 25 Year Warranty, Add</i>	9.00	
<i>For Low VOC Adhesive, Add</i>	58.38	
<i>For Integral Polyester Fleece-Backing, Add</i>	33.25	
07 54 23 00-0005 SQ 80 Mil, Single Ply TPO Roofing Membrane, Fully Adhered	607.30	94.49
Note: Includes adhesive.		
<i>For Up To 10, Add</i>	159.26	
<i>For >10 To 20, Add</i>	89.08	
<i>For >20 To 40, Add</i>	49.26	
<i>For >75 To 100, Deduct</i>	-24.63	
<i>For >100 To 200, Deduct</i>	-53.99	
<i>For >200, Deduct</i>	-78.62	
<i>For 15 Year Warranty, Add</i>	3.00	
<i>For 20 Year Warranty, Add</i>	7.00	
<i>For 25 Year Warranty, Add</i>	9.00	
<i>For Low VOC Adhesive, Add</i>	58.38	
<i>For Integral Polyester Fleece-Backing, Add</i>	33.25	
07 54 23 00-0006 SQ 45 Mil, Single Ply TPO Roofing Membrane, Mechanically Fastened	293.02	66.70
Note: Includes fasteners.		
<i>For Up To 10, Add</i>	85.28	
<i>For >10 To 20, Add</i>	49.31	
<i>For >20 To 40, Add</i>	27.99	
<i>For >75 To 100, Deduct</i>	-14.00	
<i>For >100 To 200, Deduct</i>	-31.33	
<i>For >200, Deduct</i>	-45.32	
<i>For 15 Year Warranty, Add</i>	3.00	
<i>For Integral Polyester Fleece-Backing, Add</i>	33.25	
<i>For Mechanically Fastened To Concrete Decks, Add</i>	33.35	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum Decks, Add</i>	34.62	
07 54 23 00-0007 SQ 50 Mil, Single Ply TPO Roofing Membrane, Mechanically Fastened	313.42	68.09
Note: Includes fasteners.		
<i>For Up To 10, Add</i>	89.92	
<i>For >10 To 20, Add</i>	51.77	
<i>For >20 To 40, Add</i>	29.29	
<i>For >75 To 100, Deduct</i>	-14.64	
<i>For >100 To 200, Deduct</i>	-32.69	
<i>For >200, Deduct</i>	-47.34	
<i>For 15 Year Warranty, Add</i>	3.00	
<i>For 20 Year Warranty, Add</i>	7.00	
<i>For 25 Year Warranty, Add</i>	9.00	
<i>For Integral Polyester Fleece-Backing, Add</i>	33.25	
<i>For Mechanically Fastened To Concrete Decks, Add</i>	34.04	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum Decks, Add</i>	35.31	
07 54 23 00-0008 SQ 60 Mil, Single Ply TPO Roofing Membrane, Mechanically Fastened	324.05	69.48
Note: Includes fasteners.		
<i>For Up To 10, Add</i>	92.60	
<i>For >10 To 20, Add</i>	53.25	
<i>For >20 To 40, Add</i>	30.10	
<i>For >75 To 100, Deduct</i>	-15.05	
<i>For >100 To 200, Deduct</i>	-33.57	
<i>For >200, Deduct</i>	-48.62	
<i>For 15 Year Warranty, Add</i>	3.00	
<i>For 20 Year Warranty, Add</i>	7.00	
<i>For 25 Year Warranty, Add</i>	9.00	
<i>For Integral Polyester Fleece-Backing, Add</i>	33.25	
<i>For Mechanically Fastened To Concrete Decks, Add</i>	34.74	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum Decks, Add</i>	36.01	

07 Thermal And Moisture Protection**07 50 Membrane Roofing****07 54 Thermoplastic Membrane Roofing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 54 23 00-0009 SQ 80 Mil, Single Ply TPO Roofing Membrane, Mechanically Fastened	460.60	72.25
Note: Includes fasteners.		
For Up To 10, Add	121.02	
For >10 To 20, Add	67.74	
For >20 To 40, Add	37.48	
For >75 To 100, Deduct	-18.74	
For >100 To 200, Deduct	-41.10	
For >200, Deduct	-59.84	
For 15 Year Warranty, Add	3.00	
For 20 Year Warranty, Add	7.00	
For 25 Year Warranty, Add	9.00	
For Integral Polyester Fleece-Backing, Add	33.25	
For Mechanically Fastened To Concrete Decks, Add	36.13	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum Decks, Add	37.40	
07 54 23 00-0010 Thermoplastic Polyolefin (TPO) Roofing Membrane Accessories (07 54 23)		
07 54 23 00-0011 SQ Acrylic, Thermoplastic Polyolefin (TPO) Roofing Primer, Price Per Coat.....	84.79	
For Up To 10, Add	21.40	
For >10 To 20, Add	11.81	
For >20 To 40, Add	6.46	
For >75 To 100, Deduct	-3.23	
For >100 To 200, Deduct	-7.02	
For >200, Deduct	-10.25	
07 54 23 00-0012 SQ Acrylic Elastomeric, Surface Or Base Coating For TPO Roofing, Price Per Coat.....	73.75	
Note: 55% solids by volume.		
For Up To 10, Add	19.20	
For >10 To 20, Add	10.71	
For >20 To 40, Add	5.91	
For >75 To 100, Deduct	-2.96	
For >100 To 200, Deduct	-6.47	
For >200, Deduct	-9.42	
For Tan Or Gray Color, Add	2.58	
07 54 23 00-0013 EA Up To 3" Pipe Diameter, Prefabricated Thermoplastic Polyolefin Pipe Cone/Boot.....	64.13	9.45
Note: Includes attaching the boot to the membrane, caulking around the pipe and installing a draw band.		
07 54 23 00-0014 EA >3" To 8" Pipe Diameter, Prefabricated Thermoplastic Polyolefin Pipe Cone/Boot.....	69.23	10.56
Note: Includes attaching the boot to the membrane, caulking around the pipe and installing a draw band.		
07 54 23 00-0015 EA 6" Diameter, Prefabricated TPO Penetration Pocket.....	127.09	11.67
Note: Includes attaching the pocket to the membrane, sealing around the penetration and filling the pocket with pourable sealer.		
07 54 23 00-0016 LF 30" Wide, TPO Walkway Protection Pad	29.57	6.45
07 54 23 00-0017 SF Thermoplastic Polyolefin Membrane Base Flashing	8.25	1.66
07 54 23 00-0018 SF Thermoplastic Polyolefin Curb Flashing.....	7.12	1.66
For Tan Or Gray Color, Add	0.11	
07 54 23 00-0019 SF Thermoplastic Polyolefin Clad Edge Metal Or Base Flashing.....	12.10	1.66
Note: 20 Mil TPO membrane laminated to 24 gauge galvanized steel.		
07 56 Fluid-Applied Roofing (07 50)		
07 56 00 00-0001 Neoprene Hypalon Liquid Roofing, 5 Coats (07 56)		
07 56 00 00-0002 SQ 60 Mil 5 Coat Spray-on Neoprene Hypalon Liquid Roofing.....	1,060.00	148.30
For Each Additional Coat, Add	159.00	
07 56 00 00-0003 Vinyl Spray Liquid Roofing (07 56)		
07 56 00 00-0004 SQ 2 Mil Vinyl Liquid Roofing.....	1,384.36	156.28
07 56 00 00-0005 SQ 4 Mil Vinyl Liquid Roofing.....	1,549.45	174.54
07 56 00 00-0006 Silicone Elastomeric Liquid Roofing (07 56)		
07 56 00 00-0007 SQ 65% Solids, Silicone Elastomeric Spray-on Roofing, 3 Coats, 16 Mil Per Coat.....	446.62	89.55
07 56 00 00-0008 SQ 65% Solids, Silicone Elastomeric Rolled-on Roofing, 3 Coats, 16 Mil Per Coat	533.42	89.55
07 56 00 00-0009 SQ 65% Solids, Silicone Elastomeric Brushed-on Roofing, 3 Coats, 16 Mil Per Coat.....	598.69	89.55
07 56 00 00-0010 Rubberized Acrylic Elastomeric Roof Coating, Sprayed On (07 56)		
Note: As manufactured by Tru-Co, Inc.		
07 56 00 00-0011 Rubberized Acrylic Elastomeric Roof Coating, Sprayed On Assemblies (07 56 00 00-0010)		
07 56 00 00-0012 SQ Elastomeric Installation Over Urethane Foam	986.36	
07 56 00 00-0013 SQ Elastomeric Installation Over Decks	1,012.19	
07 56 00 00-0014 SQ Elastomeric Installation Over Exterior, Waterproofing	401.66	
07 56 00 00-0015 SQ Elastomeric Installation Over Existing Tar (Asphalt) And Gravel Roof.....	1,302.76	
07 56 00 00-0016 SQ Elastomeric Installation Over New Construction, Waterproofing.....	715.34	
07 56 00 00-0017 SQ Elastomeric Installation Over Mobile Home	474.74	
07 56 00 00-0018 SQ Elastomeric Installation Over Corrugated Metal Roofs	553.97	
07 56 00 00-0019 SQ Elastomeric Installation Over Granulate Mineral Surface, Cap Sheet (Semi-Smooth) Surface	1,065.58	
07 56 00 00-0020 SQ 4" Acrylic Gel With Fabric (Apply At Edges).....	3.83	
07 56 00 00-0021 SQ 6" Acrylic Gel With Fabric (Apply At Edges).....	5.44	
07 56 00 00-0022 Polyurethane Roof Coating, Sprayed On Assemblies (07 56)		



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
				Note: Includes pressure wash, primer, base coat, polyester reinforcement, top coat and finish coat.		
	07 56 00 00-0023	SF		Up To 50 SF White (High-Albedo) Polyurethane Coating.....	11.29	
	07 56 00 00-0024	SF		>50 To 100 SF White (High-Albedo) Polyurethane Coating	10.81	
	07 56 00 00-0025	SF		>100 To 500 SF White (High-Albedo) Polyurethane Coating	10.33	
	07 56 00 00-0026	SEA		>500 To 1,000 SF White (High-Albedo) Polyurethane Coating	9.73	
07 56 00 00-0027				Elastomeric Asphalt/Urethane Liquid Roofing Membrane (07 56)		
	07 56 00 00-0028	SQ		90 Mil, Elastomeric Asphalt/Urethane Liquid Roofing Membrane	1,807.72	89.55
				Note: Includes applying a 30 mil base coat, rolling in a stitchbonded polyester reinforcing scrim and applying a 60 mil second coat.		
07 56 00 00-0029				Urethane Liquid Roofing Membrane (07 56)		
				Note: Garland White Knight Energy Star single component urethane restoration system. 10 year warranty. Used for restoration of membrane, built up, metal and modified roofing systems.		
	07 56 00 00-0030	SQ		Ulti-Mat™ 38" Non-Woven Fiberglass Reinforcing Membrane For White-Knight Systems.....	97.19	
	07 56 00 00-0031	LF		Ulti-Mat™ 6" Non-Woven Fiberglass Reinforcing Membrane For White-Knight Systems.....	5.29	
	07 56 00 00-0032	SQ		White-Knight® Premium Multi-Purpose Urethane Restoration Reflective Coating For Metal, Membrane, BUR, Single-Ply (2 GAL/SQ).....	370.87	
	07 56 00 00-0033	SQ		White-Knight® Metal Primer One Component Metal Primer For Placement Under The White-Knight System	95.60	
	07 56 00 00-0034	SQ		White-Knight® Plus High Strength, Multi-Purpose Urethane Restoration Coating For Metal, Membrane, BUR, Single-Ply	915.17	
	07 56 00 00-0035	SQ		White-Knight® Plus Base Coat High Strength, Multi-Purpose Urethane Restoration Coating For Metal, Membrane, BUR, Single-Ply	1,383.83	
	07 56 00 00-0036	SQ		White-Knight® Plus WC High Strength, Multi-Purpose, VOC Compliant, Urethane Restoration Coating For Metal, Membrane, BUR, Single-Ply	946.80	
	07 56 00 00-0037	SQ		White-Star Premium, White Polyurea Restoration Adhesive For Mineral And Smooth Modified And BUR (2 GAL/SQ).....	244.14	
07 57				Coated Foamed Roofing (07 50)		
07 57 13				Sprayed Polyurethane Foam Roofing (07 57)		
				Note: Includes power washing. Excludes ballast removal and priming metal surfaces. Excludes walkways.		
07 57 13 00-0001				Sprayed Polyurethane Foam Roofing Systems (07 57 13)		
07 57 13 00-0002				Sprayed Polyurethane Foam Roofing Systems With Acrylic Elastomeric Coating (07 57 13 00-0001)		
07 57 13 00-0003				Sprayed Polyurethane Foam Roofing System With 28 Mil Acrylic Elastomeric Coating (07 57 13 00-0002)		
				Note: Includes UL 790 fire rated 2.8 LB density polyurethane foam roofing system with acrylic elastomeric coating. Includes 5 year warranty.		
	07 57 13 00-0004	SQ		1" Thick, R6.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 28 Mil Acrylic Elastomeric Coating	343.24	54.71
	07 57 13 00-0005	SQ		1-1/2" Thick, R9.75, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 28 Mil Acrylic Elastomeric Coating	409.42	58.62
	07 57 13 00-0006	SQ		2" Thick, R13.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 28 Mil Acrylic Elastomeric Coating	475.60	62.53
	07 57 13 00-0007	SQ		2-1/2" Thick, R16.25, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 28 Mil Acrylic Elastomeric Coating	548.22	66.44
	07 57 13 00-0008	SQ		3" Thick, R19.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 28 Mil Acrylic Elastomeric Coating	620.84	70.34
	07 57 13 00-0009	SQ		3-1/2" Thick, R22.75, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 28 Mil Acrylic Elastomeric Coating	680.57	74.25
	07 57 13 00-0010	SQ		4" Thick, R26.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 28 Mil Acrylic Elastomeric Coating	740.29	78.16
	07 57 13 00-0011	SQ		4-1/2" Thick, R29.25, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 28 Mil Acrylic Elastomeric Coating	806.47	82.07
	07 57 13 00-0012	SQ		5" Thick, R32.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 28 Mil Acrylic Elastomeric Coating	872.64	85.97
	07 57 13 00-0013	SQ		5-1/2" Thick, R35.75, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 28 Mil Acrylic Elastomeric Coating	938.81	89.89
	07 57 13 00-0014	SQ		6" Thick, R39.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 28 Mil Acrylic Elastomeric Coating	1,004.99	93.79
07 57 13 00-0015				Sprayed Polyurethane Foam Roofing System With 32 Mil Acrylic Elastomeric Coating (07 57 13 00-0002)		
				Note: Includes UL 790 fire rated 2.8 LB density polyurethane foam roofing system with acrylic elastomeric coating. Includes 10 year warranty.		
	07 57 13 00-0016	SQ		1" Thick, R6.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 32 Mil Acrylic Elastomeric Coating	353.27	54.71
	07 57 13 00-0017	SQ		1-1/2" Thick, R9.75, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 32 Mil Acrylic Elastomeric Coating	419.45	58.62
	07 57 13 00-0018	SQ		2" Thick, R13.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 32 Mil Acrylic Elastomeric Coating	485.63	62.53
	07 57 13 00-0019	SQ		2-1/2" Thick, R16.25, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 32 Mil Acrylic Elastomeric Coating	551.80	66.44
	07 57 13 00-0020	SQ		3" Thick, R19.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 32 Mil Acrylic Elastomeric Coating	617.97	70.34

07 Thermal And Moisture Protection**07 50 Membrane Roofing****07 57 Coated Foamed Roofing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 57 13 00-0021 SQ 3-1/2" Thick, R22.75, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 32 Mil Acrylic Elastomeric Coating.....	684.15	74.25
07 57 13 00-0022 SQ 4" Thick, R26.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 32 Mil Acrylic Elastomeric Coating.....	750.32	78.16
07 57 13 00-0023 SQ 4-1/2" Thick, R29.25, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 32 Mil Acrylic Elastomeric Coating.....	816.50	82.07
07 57 13 00-0024 SQ 5" Thick, R32.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 32 Mil Acrylic Elastomeric Coating.....	882.67	85.97
07 57 13 00-0025 SQ 5-1/2" Thick, R35.75, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 32 Mil Acrylic Elastomeric Coating.....	948.84	89.89
07 57 13 00-0026 SQ 6" Thick, R39.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 32 Mil Acrylic Elastomeric Coating.....	1,015.02	93.79
07 57 13 00-0027 Sprayed Polyurethane Foam Roofing System With 40 Mil Acrylic Elastomeric Coating <small>(07 57 13 00-0002)</small>		
Note: Includes UL 790 fire rated 2.8 LB density polyurethane foam roofing system with acrylic elastomeric coating. Includes 15 year warranty.		
07 57 13 00-0028 SQ 1" Thick, R6.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 40 Mil Acrylic Elastomeric Coating.....	377.63	54.71
07 57 13 00-0029 SQ 1-1/2" Thick, R9.75, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 40 Mil Acrylic Elastomeric Coating.....	441.66	58.62
07 57 13 00-0030 SQ 2" Thick, R13.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 40 Mil Acrylic Elastomeric Coating.....	505.69	62.53
07 57 13 00-0031 SQ 2-1/2" Thick, R16.25, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 40 Mil Acrylic Elastomeric Coating.....	571.86	66.44
07 57 13 00-0032 SQ 3" Thick, R19.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 40 Mil Acrylic Elastomeric Coating.....	638.03	70.34
07 57 13 00-0033 SQ 3-1/2" Thick, R22.75, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 40 Mil Acrylic Elastomeric Coating.....	731.01	74.25
07 57 13 00-0034 SQ 4" Thick, R26.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 40 Mil Acrylic Elastomeric Coating.....	823.98	78.16
07 57 13 00-0035 SQ 4-1/2" Thick, R29.25, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 40 Mil Acrylic Elastomeric Coating.....	895.60	82.07
07 57 13 00-0036 SQ 5" Thick, R32.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 40 Mil Acrylic Elastomeric Coating.....	967.22	85.97
07 57 13 00-0037 SQ 5-1/2" Thick, R35.75, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 40 Mil Acrylic Elastomeric Coating.....	1,038.83	89.89
07 57 13 00-0038 SQ 6" Thick, R39.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 40 Mil Acrylic Elastomeric Coating.....	1,110.46	93.79
07 57 13 00-0039 Sprayed Polyurethane Foam Roofing Systems With Silicone Elastomeric Coating <small>(07 57 13 00-0001)</small>		
07 57 13 00-0040 Sprayed Polyurethane Foam Roofing System With 20 Mil Silicone Elastomeric Coating <small>(07 57 13 00-0039)</small>		
Note: Includes UL 790 fire rated 2.8 LB density polyurethane foam roofing system with 65% solids silicone elastomeric coating. Includes 5 year warranty.		
07 57 13 00-0041 SQ 1" Thick, R6.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 20 Mil Silicone Elastomeric Coating.....	384.80	54.71
07 57 13 00-0042 SQ 1-1/2" Thick, R9.75, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 20 Mil Silicone Elastomeric Coating.....	456.42	58.62
07 57 13 00-0043 SQ 2" Thick, R13.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 20 Mil Silicone Elastomeric Coating.....	528.05	62.53
07 57 13 00-0044 SQ 2-1/2" Thick, R16.25, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 20 Mil Silicone Elastomeric Coating.....	599.66	66.44
07 57 13 00-0045 SQ 3" Thick, R19.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 20 Mil Silicone Elastomeric Coating.....	671.28	70.34
07 57 13 00-0046 SQ 3-1/2" Thick, R22.75, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 20 Mil Silicone Elastomeric Coating.....	742.90	74.25
07 57 13 00-0047 SQ 4" Thick, R26.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 20 Mil Silicone Elastomeric Coating.....	814.52	78.16
07 57 13 00-0048 SQ 4-1/2" Thick, R29.25, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 20 Mil Silicone Elastomeric Coating.....	886.14	82.07
07 57 13 00-0049 SQ 5" Thick, R32.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 20 Mil Silicone Elastomeric Coating.....	957.76	85.97
07 57 13 00-0050 SQ 5-1/2" Thick, R35.75, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 20 Mil Silicone Elastomeric Coating.....	1,029.37	89.89
07 57 13 00-0051 SQ 6" Thick, R39.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 20 Mil Silicone Elastomeric Coating.....	1,101.00	93.79
07 57 13 00-0052 Sprayed Polyurethane Foam Roofing System With 22 Mil Silicone Elastomeric Coating <small>(07 57 13 00-0039)</small>		
Note: Includes UL 790 fire rated 2.8 LB density polyurethane foam roofing system with 65% solids silicone elastomeric coating. Includes 10 year warranty.		
07 57 13 00-0053 SQ 1" Thick, R6.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 22 Mil Silicone Elastomeric Coating.....	398.98	54.71
07 57 13 00-0054 SQ 1-1/2" Thick, R9.75, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 22 Mil Silicone Elastomeric Coating.....	470.61	58.62
07 57 13 00-0055 SQ 2" Thick, R13.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 22 Mil Silicone Elastomeric Coating.....	542.23	62.53



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 57 13 00-0056 SQ 2-1/2" Thick, R16.25, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 22 Mil Silicone Elastomeric Coating	613.85	66.44
07 57 13 00-0057 SQ 3" Thick, R19.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 22 Mil Silicone Elastomeric Coating	685.46	70.34
07 57 13 00-0058 SQ 3-1/2" Thick, R22.75, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 22 Mil Silicone Elastomeric Coating	757.09	74.25
07 57 13 00-0059 SQ 4" Thick, R26.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 22 Mil Silicone Elastomeric Coating	828.70	78.16
07 57 13 00-0060 SQ 4-1/2" Thick, R29.25, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 22 Mil Silicone Elastomeric Coating	900.33	82.07
07 57 13 00-0061 SQ 5" Thick, R32.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 22 Mil Silicone Elastomeric Coating	971.94	85.97
07 57 13 00-0062 SQ 5-1/2" Thick, R35.75, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 22 Mil Silicone Elastomeric Coating	1,043.56	89.89
07 57 13 00-0063 SQ 6" Thick, R39.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 22 Mil Silicone Elastomeric Coating	1,115.18	93.79

07 57 13 00-0064 Sprayed Polyurethane Foam Roofing System With 25 Mil Silicone Elastomeric Coating (07 57 13 00-0039)

Note: Includes UL 790 fire rated 2.8 LB density polyurethane foam roofing system with 65% solids silicone elastomeric coating. Includes 15 year warranty.

07 57 13 00-0065 SQ 1" Thick, R6.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 25 Mil Silicone Elastomeric Coating	410.02	54.71
07 57 13 00-0066 SQ 1-1/2" Thick, R9.75, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 25 Mil Silicone Elastomeric Coating	481.64	58.62
07 57 13 00-0067 SQ 2" Thick, R13.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 25 Mil Silicone Elastomeric Coating	553.27	62.53
07 57 13 00-0068 SQ 2-1/2" Thick, R16.25, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 25 Mil Silicone Elastomeric Coating	624.88	66.44
07 57 13 00-0069 SQ 3" Thick, R19.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 25 Mil Silicone Elastomeric Coating	696.50	70.34
07 57 13 00-0070 SQ 3-1/2" Thick, R22.75, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 25 Mil Silicone Elastomeric Coating	768.12	74.25
07 57 13 00-0071 SQ 4" Thick, R26.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 25 Mil Silicone Elastomeric Coating	839.74	78.16
07 57 13 00-0072 SQ 4-1/2" Thick, R29.25, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 25 Mil Silicone Elastomeric Coating	911.36	82.07
07 57 13 00-0073 SQ 5" Thick, R32.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 25 Mil Silicone Elastomeric Coating	982.98	85.97
07 57 13 00-0074 SQ 5-1/2" Thick, R35.75, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 25 Mil Silicone Elastomeric Coating	1,054.59	89.89
07 57 13 00-0075 SQ 6" Thick, R39.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 25 Mil Silicone Elastomeric Coating	1,126.22	93.79

07 58 Roll Roofing (07 50)

07 58 00 00-0001 Prepared Roll Roofing <small>(07 58)</small> Note: Fastened with roofing nails and roofing cement. Includes fasteners and adhesive. Excludes warranty. See CSI section 07 51 13 00-0033 for underlayment.		
07 58 00 00-0002 SQ Granule Surfaced, 90 LB, Asphalt Saturated Organic Felt Roll Roofing.....	255.54	35.17

07 59 Membrane Roofing Termination Bar (07 50)

07 59 00 00-0001 Membrane Roofing Termination Bar <small>(07 59)</small>		
07 59 00 00-0002 LF Membrane Roofing Termination Bar..... Note: Includes fasteners and caulking.	5.04	1.60

07 60 Flashing and Sheet Metal (07)

07 61 Sheet Metal Roofing (07 60)

07 61 13 Standing Seam Sheet Metal Roofing (07 61)

07 61 13 00-0001 Standing Seam Concealed Fastener Roofing <small>(07 61 13)</small>		
07 61 13 00-0002 Copper Standing Seam Concealed Fastener Roofing <small>(07 61 13 00-0001)</small>		
07 61 13 00-0003 SF Architectural 16 Ounce Copper Standing Seam Concealed Fastener Roofing.....	36.81	3.98
For Steep Roof, Over 6 To 12, Add	2.38	
For Panels <16" Wide, Add	3.31	
For 140 MPH Wind Load, Add	1.37	
For Up To 1,500, Add	9.20	
For >1,500 To 5,000, Add	5.52	
For >5,000 To 10,000, Add	0.92	

07 Thermal And Moisture Protection**07 60 Flashing and Sheet Metal****07 61 Sheet Metal Roofing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 61 13 00-0004 SF Architectural 18 Ounce Copper Standing Seam Concealed Fastener Roofing.....	40.30	4.31
For Steep Roof, Over 6 To 12, Add	2.58	
For Panels <16" Wide, Add	3.61	
For 140 MPH Wind Load, Add	1.49	
For Up To 1,500, Add	10.08	
For >1,500 To 5,000, Add	6.05	
For >5,000 To 10,000, Add	1.01	
07 61 13 00-0005 SF Architectural 20 Ounce Copper Standing Seam Concealed Fastener Roofing.....	47.42	4.71
For Steep Roof, Over 6 To 12, Add	2.82	
For Panels <16" Wide, Add	4.11	
For 140 MPH Wind Load, Add	1.70	
For Up To 1,500, Add	11.86	
For >1,500 To 5,000, Add	7.11	
For >5,000 To 10,000, Add	1.19	
07 61 13 00-0006 Zinc/Copper Standing Seam Concealed Fastener Roofing (07 61 13 00-0001)		
07 61 13 00-0007 SF 0.020" Thick, Zinc/Copper Standing Seam Concealed Fastener Roofing.....	42.98	4.31
For Steep Roof, Over 6 To 12, Add	2.58	
For Panels <16" Wide, Add	3.74	
For 140 MPH Wind Load, Add	1.55	
For Up To 1,500, Add	10.75	
For >1,500 To 5,000, Add	6.45	
For >5,000 To 10,000, Add	1.07	
For Tin/Copper, Deduct	-0.69	
07 61 13 00-0008 SF 0.027" Thick, Zinc/Copper Standing Seam Concealed Fastener Roofing.....	51.94	4.49
For Steep Roof, Over 6 To 12, Add	2.69	
For Panels <16" Wide, Add	4.26	
For 140 MPH Wind Load, Add	1.76	
For Up To 1,500, Add	12.99	
For >1,500 To 5,000, Add	7.79	
For >5,000 To 10,000, Add	1.30	
For Tin/Copper, Deduct	-0.86	
07 61 13 00-0009 SF 0.032" Thick, Zinc/Copper Standing Seam Concealed Fastener Roofing.....	58.97	4.71
For Steep Roof, Over 6 To 12, Add	2.82	
For Panels <16" Wide, Add	4.69	
For 140 MPH Wind Load, Add	1.93	
For Up To 1,500, Add	14.74	
For >1,500 To 5,000, Add	8.85	
For >5,000 To 10,000, Add	1.47	
For Tin/Copper, Deduct	-0.99	
07 61 13 00-0010 SF 0.040" Thick, Zinc/Copper Standing Seam Concealed Fastener Roofing.....	73.79	4.92
For Steep Roof, Over 6 To 12, Add	2.95	
For Panels <16" Wide, Add	5.51	
For 140 MPH Wind Load, Add	2.26	
For Up To 1,500, Add	18.45	
For >1,500 To 5,000, Add	11.07	
For >5,000 To 10,000, Add	1.84	
For Tin/Copper, Deduct	-1.28	
07 61 13 00-0011 Accessories For Copper Standing Seam Concealed Fastener Roofing (07 61 13 00-0001)		
07 61 13 00-0012 LF Ridge Flashing For Copper Standing Seam Concealed Fastener Roofing.....	153.51	8.21
For Steep Roof, Over 6 To 12, Add	6.16	
For 140 MPH Wind Load, Add	4.71	
07 61 13 00-0013 LF Eave Flashing For Copper Standing Seam Concealed Fastener Roofing.....	89.11	8.21
For Steep Roof, Over 6 To 12, Add	6.16	
For 140 MPH Wind Load, Add	3.42	
07 61 13 00-0014 LF Valley Flashing For Copper Standing Seam Concealed Fastener Roofing.....	214.41	8.21
For Steep Roof, Over 6 To 12, Add	6.16	
For 140 MPH Wind Load, Add	5.93	
07 61 13 00-0015 LF Hip Flashing For Copper Standing Seam Concealed Fastener Roofing.....	158.33	8.21
For Steep Roof, Over 6 To 12, Add	6.16	
For 140 MPH Wind Load, Add	4.81	
07 61 16 Batten Seam Sheet Metal Roofing (07 61)		
07 61 16 00-0001 Copper Batten Seam Concealed Fastener Roofing (07 61 16)		
07 61 16 00-0002 Copper Batten Seam Concealed Fastener Roofing (07 61 16 00-0001)		
07 61 16 00-0003 SF 16 Ounce Copper Batten Seam Concealed Fastener Roofing	45.31	4.71
For Steep Roof, Over 6 To 12, Add	2.82	
For Panels <16" Wide, Add	4.00	
For 140 MPH Wind Load, Add	1.66	
For Up To 1,500, Add	11.33	
For >1,500 To 5,000, Add	6.80	
For >5,000 To 10,000, Add	1.13	
07 61 16 00-0004 SF 18 Ounce Copper Batten Seam Concealed Fastener Roofing	50.00	4.94
For Steep Roof, Over 6 To 12, Add	2.96	
For Panels <16" Wide, Add	4.32	
For 140 MPH Wind Load, Add	1.79	
For Up To 1,500, Add	12.50	
For >1,500 To 5,000, Add	7.50	
For >5,000 To 10,000, Add	1.25	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 61 16 00-0005 SF 20 Ounce Copper Batten Seam Concealed Fastener Roofing	58.22	5.17
For Steep Roof, Over 6 To 12, Add	3.10	
For Panels <16" Wide, Add	4.62	
For 140 MPH Wind Load, Add	1.99	
For Up To 1,500, Add	14.56	
For >1,500 To 5,000, Add	8.73	
For >5,000 To 10,000, Add	1.46	
07 61 16 00-0006 Zinc/Copper Batten Seam Concealed Fastener Roofing (07 61 16 00-0001)		
07 61 16 00-0007 SF 0.020" Thick, Zinc/Copper Batten Seam Concealed Fastener Roofing	45.94	4.31
For Steep Roof, Over 6 To 12, Add	2.58	
For Panels <16" Wide, Add	3.89	
For 140 MPH Wind Load, Add	1.61	
For Up To 1,500, Add	11.49	
For >1,500 To 5,000, Add	6.89	
For >5,000 To 10,000, Add	1.15	
For Tin/Copper, Deduct	-0.75	
07 61 16 00-0008 SF 0.027" Thick, Zinc/Copper Batten Seam Concealed Fastener Roofing	56.17	4.49
For Steep Roof, Over 6 To 12, Add	2.70	
For Panels <16" Wide, Add	4.47	
For 140 MPH Wind Load, Add	1.84	
For Up To 1,500, Add	14.04	
For >1,500 To 5,000, Add	8.43	
For >5,000 To 10,000, Add	1.40	
For Tin/Copper, Deduct	-0.94	
07 61 16 00-0009 SF 0.032" Thick, Zinc/Copper Batten Seam Concealed Fastener Roofing	62.91	4.71
For Steep Roof, Over 6 To 12, Add	2.82	
For Panels <16" Wide, Add	4.88	
For 140 MPH Wind Load, Add	2.01	
For Up To 1,500, Add	15.73	
For >1,500 To 5,000, Add	9.44	
For >5,000 To 10,000, Add	1.57	
For Tin/Copper, Deduct	-1.07	
07 61 16 00-0010 SF 0.040" Thick, Zinc/Copper Batten Seam Concealed Fastener Roofing	78.86	4.92
For Steep Roof, Over 6 To 12, Add	2.95	
For Panels <16" Wide, Add	5.76	
For 140 MPH Wind Load, Add	2.36	
For Up To 1,500, Add	19.72	
For >1,500 To 5,000, Add	11.83	
For >5,000 To 10,000, Add	1.97	
For Tin/Copper, Deduct	-1.38	
07 61 19 Flat Seam Sheet Metal Roofing (07 61)		
07 61 19 00-0001 Copper Flat Seam Concealed Fastener Roofing (07 61 19)		
07 61 19 00-0002 Copper Flat Seam Concealed Fastener Roofing (07 61 19 00-0001)		
07 61 19 00-0003 SF 16 Ounce Copper Flat Seam Concealed Fastener Roofing	35.09	4.31
For Steep Roof, Over 6 To 12, Add	2.58	
For Panels <16" Wide, Add	3.35	
For 140 MPH Wind Load, Add	1.39	
For Up To 1,500, Add	8.77	
For >1,500 To 5,000, Add	5.26	
For >5,000 To 10,000, Add	0.88	
07 61 19 00-0004 SF 18 Ounce Copper Flat Seam Concealed Fastener Roofing	38.57	4.49
For Steep Roof, Over 6 To 12, Add	2.70	
For Panels <16" Wide, Add	3.59	
For 140 MPH Wind Load, Add	1.49	
For Up To 1,500, Add	9.64	
For >1,500 To 5,000, Add	5.79	
For >5,000 To 10,000, Add	0.96	
07 61 19 00-0005 SF 20 Ounce Copper Flat Seam Concealed Fastener Roofing	44.60	4.71
For Steep Roof, Over 6 To 12, Add	2.82	
For Panels <16" Wide, Add	3.97	
For 140 MPH Wind Load, Add	1.64	
For Up To 1,500, Add	11.15	
For >1,500 To 5,000, Add	6.69	
For >5,000 To 10,000, Add	1.12	
07 61 19 00-0006 Zinc/Copper Flat Seam Concealed Fastener Roofing (07 61 19 00-0001)		
07 61 19 00-0007 SF 0.020" Thick, Zinc/Copper Flat Seam Concealed Fastener Roofing	40.30	4.31
For Steep Roof, Over 6 To 12, Add	2.58	
For Panels <16" Wide, Add	3.61	
For 140 MPH Wind Load, Add	1.49	
For Up To 1,500, Add	10.08	
For >1,500 To 5,000, Add	6.05	
For >5,000 To 10,000, Add	1.01	
For Tin/Copper, Deduct	-0.63	

07 Thermal And Moisture Protection**07 60 Flashing and Sheet Metal****07 61 Sheet Metal Roofing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 61 19 00-0008 SF 0.027" Thick, Zinc/Copper Flat Seam Concealed Fastener Roofing.....	49.13	4.49
For Steep Roof, Over 6 To 12, Add	2.70	
For Panels <16" Wide, Add	4.12	
For 140 MPH Wind Load, Add	1.70	
For Up To 1,500, Add	12.28	
For >1,500 To 5,000, Add	7.37	
For >5,000 To 10,000, Add	1.23	
For Tin/Copper, Deduct	-0.80	
07 61 19 00-0009 SF 0.032" Thick, Zinc/Copper Flat Seam Concealed Fastener Roofing.....	55.17	4.71
For Steep Roof, Over 6 To 12, Add	2.82	
For Panels <16" Wide, Add	4.50	
For 140 MPH Wind Load, Add	1.85	
For Up To 1,500, Add	13.79	
For >1,500 To 5,000, Add	8.28	
For >5,000 To 10,000, Add	1.38	
For Tin/Copper, Deduct	-0.92	
07 61 19 00-0010 SF 0.040" Thick, Zinc/Copper Flat Seam Concealed Fastener Roofing.....	69.00	4.92
For Steep Roof, Over 6 To 12, Add	2.95	
For Panels <16" Wide, Add	5.27	
For 140 MPH Wind Load, Add	2.17	
For Up To 1,500, Add	17.25	
For >1,500 To 5,000, Add	10.35	
For >5,000 To 10,000, Add	1.73	
For Tin/Copper, Deduct	-1.18	

07 62 Sheet Metal Flashing and Trim (07 60)**07 62 13 Fabricated Copings** (07 62)**07 62 13 00-0001 Lead Flashing And Trim** (07 62 13)

07 62 13 00-0002 SF 2.5 LB/SF Sheet Lead Flashing.....	25.60	6.92
For Up To 100, Add	6.40	
07 62 13 00-0003 SF 4 LB/SF Sheet Lead Flashing.....	32.86	6.92
For Up To 100, Add	8.22	

07 62 13 00-0004 Copper Flashing And Trim (07 62 13)**07 62 13 00-0005 Copper Flashing And Trim** (07 62 13 00-0004)

07 62 13 00-0006 SF 16 Ounce, 0.021" Thick, Copper Flashing And Trim.....	41.10	6.75
For Up To 100, Add	10.28	
For >500 To 2,000, Deduct	-5.61	
For >2,000, Deduct	-7.00	
For Copper Valley For Steep Slope Roofing, Over 7 To 12, Add	2.67	
For Wrap Around Window Panning, Add	13.36	
07 62 13 00-0007 SF 20 Ounce, 0.027" Thick, Copper Flashing And Trim.....	42.40	6.92
For Up To 100, Add	10.60	
For >500 To 2,000, Deduct	-5.79	
For >2,000, Deduct	-7.21	
For Copper Valley For Steep Slope Roofing, Over 7 To 12, Add	2.79	
For Wrap Around Window Panning, Add	13.96	
07 62 13 00-0008 SF 24 Ounce, 0.032" Thick, Copper Flashing And Trim.....	48.75	7.37
For Up To 100, Add	12.19	
For >500 To 2,000, Deduct	-6.63	
For >2,000, Deduct	-8.34	
For Copper Valley For Steep Slope Roofing, Over 7 To 12, Add	2.93	
For Wrap Around Window Panning, Add	14.63	
07 62 13 00-0009 SF 32 Ounce, 0.043" Thick, Copper Flashing And Trim.....	60.86	7.68
For Up To 100, Add	15.22	
For >500 To 2,000, Deduct	-8.22	
For >2,000, Deduct	-10.49	
For Copper Valley For Steep Slope Roofing, Over 7 To 12, Add	3.07	
For Wrap Around Window Panning, Add	15.36	

07 62 13 00-0010 Stainless Steel Flashing And Trim (07 62 13)**07 62 13 00-0011 Stainless Steel Flashing And Trim** (07 62 13 00-0010)

07 62 13 00-0012 SF 32 Gauge, 0.010" Thick, Stainless Steel Flashing And Trim.....	12.61	3.69
For Up To 100, Add	3.15	
For Wrap Around Window Panning, Add	9.48	
For Mechanically Keyed Flashing, Add	1.25	
07 62 13 00-0013 SF 30 Gauge, 0.0125" Thick, Stainless Steel Flashing And Trim.....	13.54	4.15
For Up To 100, Add	3.39	
For Wrap Around Window Panning, Add	9.63	
For Mechanically Keyed Flashing, Add	1.56	
07 62 13 00-0014 SF 28 Gauge, 0.0156" Thick, Stainless Steel Flashing And Trim.....	14.48	4.60
For Up To 100, Add	3.62	
For Wrap Around Window Panning, Add	9.79	
For Mechanically Keyed Flashing, Add	1.88	
07 62 13 00-0015 SF 26 Gauge, 0.0187" Thick, Stainless Steel Flashing And Trim.....	15.97	5.07
For Up To 100, Add	3.99	
For Wrap Around Window Panning, Add	10.10	
For Mechanically Keyed Flashing, Add	2.35	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 62 13 00-0016 SF 24 Gauge, 0.025" Thick, Stainless Steel Flashing And Trim.....	18.49	5.38
<i>For Up To 100, Add</i>	4.62	
<i>For Wrap Around Window Panning, Add</i>	10.67	
<i>For Mechanically Keyed Flashing, Add</i>	3.13	
07 62 13 00-0017 SF 22 Gauge, 0.031" Thick, Stainless Steel Flashing And Trim.....	20.11	5.65
<i>For Up To 100, Add</i>	5.03	
<i>For Wrap Around Window Panning, Add</i>	11.29	
<i>For Mechanically Keyed Flashing, Add</i>	3.53	
07 62 13 00-0018 SF 20 Gauge, 0.0375" Thick, Stainless Steel Flashing And Trim.....	21.51	5.99
<i>For Up To 100, Add</i>	5.38	
<i>For Wrap Around Window Panning, Add</i>	11.95	
<i>For Mechanically Keyed Flashing, Add</i>	3.82	
07 62 13 00-0019 Aluminum Flashing And Trim <small>(07 62 13)</small>		
07 62 13 00-0020 Aluminum Flashing And Trim <small>(07 62 13 00-0019)</small>		
07 62 13 00-0021 SF 0.013" Thick, Mill Finish, Aluminum Flashing And Trim	13.90	4.76
<i>For Up To 100, Add</i>	3.48	
<i>For Baked Aluminum Colors, Add</i>	0.33	
<i>For Wrap Around Window Panning, Add</i>	10.59	
07 62 13 00-0022 SF 0.016" Thick, Mill Finish, Aluminum Flashing And Trim	14.62	4.76
<i>For Up To 100, Add</i>	3.66	
<i>For Baked Aluminum Colors, Add</i>	0.40	
<i>For Wrap Around Window Panning, Add</i>	10.59	
07 62 13 00-0023 SF 0.019" Thick, Mill Finish, Aluminum Flashing And Trim	15.19	4.76
<i>For Up To 100, Add</i>	3.80	
<i>For Baked Aluminum Colors, Add</i>	0.46	
<i>For Wrap Around Window Panning, Add</i>	10.59	
07 62 13 00-0024 SF 0.024" Thick, Mill Finish, Aluminum Flashing And Trim	16.02	4.76
<i>For Up To 100, Add</i>	4.01	
<i>For Baked Aluminum Colors, Add</i>	0.54	
<i>For Wrap Around Window Panning, Add</i>	10.59	
07 62 13 00-0025 SF 0.032" Thick, Mill Finish, Aluminum Flashing And Trim	17.18	4.76
<i>For Up To 100, Add</i>	4.30	
<i>For Baked Aluminum Colors, Add</i>	0.66	
<i>For Wrap Around Window Panning, Add</i>	10.59	
07 62 13 00-0026 SF 0.040" Thick, Mill Finish, Aluminum Flashing And Trim	17.89	4.76
<i>For Up To 100, Add</i>	4.47	
<i>For Baked Aluminum Colors, Add</i>	0.73	
<i>For Wrap Around Window Panning, Add</i>	10.59	
07 62 13 00-0027 SF 0.050" Thick, Mill Finish, Aluminum Flashing And Trim	18.46	4.76
<i>For Up To 100, Add</i>	4.62	
<i>For Baked Aluminum Colors, Add</i>	0.79	
<i>For Wrap Around Window Panning, Add</i>	10.59	
07 62 13 00-0028 Steel Flashing And Trim <small>(07 62 13)</small>		
07 62 13 00-0029 Galvanized Steel Flashing And Trim <small>(07 62 13 00-0028)</small>		
07 62 13 00-0030 SF 28 Gauge, 0.019" Thick, Galvanized Steel Flashing.....	14.36	4.60
<i>For Up To 100, Add</i>	3.59	
<i>For Wrap Around Window Panning, Add</i>	9.79	
07 62 13 00-0031 SF 26 Gauge, 0.022" Thick, Galvanized Steel Flashing.....	14.92	5.07
<i>For Up To 100, Add</i>	3.73	
<i>For Wrap Around Window Panning, Add</i>	10.10	
07 62 13 00-0032 SF 24 Gauge, 0.028" Thick, Galvanized Steel Flashing.....	15.87	5.38
<i>For Up To 100, Add</i>	3.97	
<i>For Wrap Around Window Panning, Add</i>	10.67	
07 62 13 00-0033 SF 22 Gauge, 0.034" Thick, Galvanized Steel Flashing.....	16.87	5.65
<i>For Up To 100, Add</i>	4.22	
<i>For Wrap Around Window Panning, Add</i>	11.29	
07 62 13 00-0034 SF 20 Gauge, 0.04" Thick, Galvanized Steel Flashing.....	18.20	5.99
<i>For Up To 100, Add</i>	4.55	
<i>For Wrap Around Window Panning, Add</i>	11.95	
07 62 19 Fabricated Gravel Stops and Fasciae <small>(07 62)</small>		
07 62 19 00-0001 Drip Edge <small>(07 62 19)</small>		
07 62 19 00-0002 Aluminum Drip Edge <small>(07 62 19 00-0001)</small>		
Note: Girth (stretch-out) equals the total (flattened) width of the drip edge.		
07 62 19 00-0003 KYNAR 500® Finish, Aluminum Drip Edge <small>(07 62 19 00-0002)</small>		
07 62 19 00-0004 0.016" Thick, KYNAR 500® Finish, Aluminum Drip Edge <small>(07 62 19 00-0003)</small>		
07 62 19 00-0005 LF Up To 5" Girth, 0.016" Thick, KYNAR 500® Finish, Aluminum Drip Edge.....	12.59	1.76
07 62 19 00-0006 LF >5" To 7" Girth, 0.016" Thick, KYNAR 500® Finish, Aluminum Drip Edge.....	15.70	1.88
07 62 19 00-0007 LF >7" To 9" Girth, 0.016" Thick, KYNAR 500® Finish, Aluminum Drip Edge.....	17.73	2.11
07 62 19 00-0008 LF >9" To 12" Girth, 0.016" Thick, KYNAR 500® Finish, Aluminum Drip Edge.....	21.34	2.23
07 62 19 00-0009 LF >12" To 15" Girth, 0.016" Thick, KYNAR 500® Finish, Aluminum Drip Edge.....	27.25	2.35
07 62 19 00-0010 0.019" Thick, KYNAR 500® Finish, Aluminum Drip Edge <small>(07 62 19 00-0003)</small>		

07 Thermal And Moisture Protection**07 60 Flashing and Sheet Metal****07 62 Sheet Metal Flashing and Trim**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 62 19 00-0011 LF Up To 5" Girth, 0.019" Thick, KYNAR 500® Finish, Aluminum Drip Edge	13.47	1.76
07 62 19 00-0012 LF >5" To 7" Girth, 0.019" Thick, KYNAR 500® Finish, Aluminum Drip Edge	16.68	1.88
07 62 19 00-0013 LF >7" To 9" Girth, 0.019" Thick, KYNAR 500® Finish, Aluminum Drip Edge	19.20	2.11
07 62 19 00-0014 LF >9" To 12" Girth, 0.019" Thick, KYNAR 500® Finish, Aluminum Drip Edge	23.09	2.23
07 62 19 00-0015 LF >12" To 15" Girth, 0.019" Thick, KYNAR 500® Finish, Aluminum Drip Edge	28.91	2.35
07 62 19 00-0016 0.025" Thick, KYNAR 500® Finish, Aluminum Drip Edge (07 62 19 00-0003)		
07 62 19 00-0017 LF Up To 5" Girth, 0.025" Thick, KYNAR 500® Finish, Aluminum Drip Edge	14.35	1.76
07 62 19 00-0018 LF >5" To 7" Girth, 0.025" Thick, KYNAR 500® Finish, Aluminum Drip Edge	17.85	1.88
07 62 19 00-0019 LF >7" To 9" Girth, 0.025" Thick, KYNAR 500® Finish, Aluminum Drip Edge	20.61	2.11
07 62 19 00-0020 LF >9" To 12" Girth, 0.025" Thick, KYNAR 500® Finish, Aluminum Drip Edge	24.85	2.23
07 62 19 00-0021 LF >12" To 15" Girth, 0.025" Thick, KYNAR 500® Finish, Aluminum Drip Edge	31.25	2.35
07 62 19 00-0022 0.032" Thick, KYNAR 500® Finish, Aluminum Drip Edge (07 62 19 00-0003)		
07 62 19 00-0023 LF Up To 5" Girth, 0.032" Thick, KYNAR 500® Finish, Aluminum Drip Edge	16.11	1.76
07 62 19 00-0024 LF >5" To 7" Girth, 0.032" Thick, KYNAR 500® Finish, Aluminum Drip Edge	20.19	1.88
07 62 19 00-0025 LF >7" To 9" Girth, 0.032" Thick, KYNAR 500® Finish, Aluminum Drip Edge	23.39	2.11
07 62 19 00-0026 LF >9" To 12" Girth, 0.032" Thick, KYNAR 500® Finish, Aluminum Drip Edge	28.37	2.23
07 62 19 00-0027 LF >12" To 15" Girth, 0.032" Thick, KYNAR 500® Finish, Aluminum Drip Edge	35.94	2.35
07 62 19 00-0028 0.040" Thick, KYNAR 500® Finish, Aluminum Drip Edge (07 62 19 00-0003)		
07 62 19 00-0029 LF Up To 5" Girth, 0.040" Thick, KYNAR 500® Finish, Aluminum Drip Edge	16.69	1.76
07 62 19 00-0030 LF >5" To 7" Girth, 0.040" Thick, KYNAR 500® Finish, Aluminum Drip Edge	21.07	1.88
07 62 19 00-0031 LF >7" To 9" Girth, 0.040" Thick, KYNAR 500® Finish, Aluminum Drip Edge	24.32	2.11
07 62 19 00-0032 LF >9" To 12" Girth, 0.040" Thick, KYNAR 500® Finish, Aluminum Drip Edge	29.54	2.23
07 62 19 00-0033 LF >12" To 15" Girth, 0.040" Thick, KYNAR 500® Finish, Aluminum Drip Edge	37.50	2.35
07 62 19 00-0034 0.050" Thick, KYNAR 500® Finish, Aluminum Drip Edge (07 62 19 00-0003)		
07 62 19 00-0035 LF Up To 5" Girth, 0.050" Thick, KYNAR 500® Finish, Aluminum Drip Edge	18.74	1.76
07 62 19 00-0036 LF >5" To 7" Girth, 0.050" Thick, KYNAR 500® Finish, Aluminum Drip Edge	23.71	1.88
07 62 19 00-0037 LF >7" To 9" Girth, 0.050" Thick, KYNAR 500® Finish, Aluminum Drip Edge	27.54	2.11
07 62 19 00-0038 LF >9" To 12" Girth, 0.050" Thick, KYNAR 500® Finish, Aluminum Drip Edge	33.64	2.23
07 62 19 00-0039 LF >12" To 15" Girth, 0.050" Thick, KYNAR 500® Finish, Aluminum Drip Edge	42.97	2.35
07 62 19 00-0040 0.063" Thick, KYNAR 500® Finish, Aluminum Drip Edge (07 62 19 00-0003)		
07 62 19 00-0041 LF Up To 5" Girth, 0.063" Thick, KYNAR 500® Finish, Aluminum Drip Edge	21.67	1.76
07 62 19 00-0042 LF >5" To 7" Girth, 0.063" Thick, KYNAR 500® Finish, Aluminum Drip Edge	27.61	1.88
07 62 19 00-0043 LF >7" To 9" Girth, 0.063" Thick, KYNAR 500® Finish, Aluminum Drip Edge	32.18	2.11
07 62 19 00-0044 LF >9" To 12" Girth, 0.063" Thick, KYNAR 500® Finish, Aluminum Drip Edge	39.50	2.23
07 62 19 00-0045 LF >12" To 15" Girth, 0.063" Thick, KYNAR 500® Finish, Aluminum Drip Edge	50.78	2.35
07 62 19 00-0046 0.080" Thick, KYNAR 500® Finish, Aluminum Drip Edge (07 62 19 00-0003)		
07 62 19 00-0047 LF Up To 5" Girth, 0.080" Thick, KYNAR 500® Finish, Aluminum Drip Edge	25.19	1.76
07 62 19 00-0048 LF >5" To 7" Girth, 0.080" Thick, KYNAR 500® Finish, Aluminum Drip Edge	32.30	1.88
07 62 19 00-0049 LF >7" To 9" Girth, 0.080" Thick, KYNAR 500® Finish, Aluminum Drip Edge	37.75	2.11
07 62 19 00-0050 LF >9" To 12" Girth, 0.080" Thick, KYNAR 500® Finish, Aluminum Drip Edge	46.53	2.23
07 62 19 00-0051 LF >12" To 15" Girth, 0.080" Thick, KYNAR 500® Finish, Aluminum Drip Edge	60.15	2.35
07 62 19 00-0052 Mill Finish, Aluminum Drip Edge (07 62 19 00-0002)		
07 62 19 00-0053 0.016" Thick, Mill Finish, Aluminum Drip Edge (07 62 19 00-0052)		
07 62 19 00-0054 LF Up To 5" Girth, 0.016" Thick, Mill Finish, Aluminum Drip Edge	10.32	1.76
07 62 19 00-0055 LF >5" To 7" Girth, 0.016" Thick, Mill Finish, Aluminum Drip Edge	12.61	1.88
07 62 19 00-0056 LF >7" To 9" Girth, 0.016" Thick, Mill Finish, Aluminum Drip Edge	14.16	2.11
07 62 19 00-0057 LF >9" To 12" Girth, 0.016" Thick, Mill Finish, Aluminum Drip Edge	16.79	2.23
07 62 19 00-0058 LF >12" To 15" Girth, 0.016" Thick, Mill Finish, Aluminum Drip Edge	20.98	2.35
07 62 19 00-0059 0.019" Thick, Mill Finish, Aluminum Drip Edge (07 62 19 00-0052)		
07 62 19 00-0060 LF Up To 5" Girth, 0.019" Thick, Mill Finish, Aluminum Drip Edge	10.93	1.76
07 62 19 00-0061 LF >5" To 7" Girth, 0.019" Thick, Mill Finish, Aluminum Drip Edge	13.28	1.88
07 62 19 00-0062 LF >7" To 9" Girth, 0.019" Thick, Mill Finish, Aluminum Drip Edge	15.17	2.11
07 62 19 00-0063 LF >9" To 12" Girth, 0.019" Thick, Mill Finish, Aluminum Drip Edge	18.00	2.23
07 62 19 00-0064 LF >12" To 15" Girth, 0.019" Thick, Mill Finish, Aluminum Drip Edge	22.12	2.35
07 62 19 00-0065 0.025" Thick, Mill Finish, Aluminum Drip Edge (07 62 19 00-0052)		
07 62 19 00-0066 LF Up To 5" Girth, 0.025" Thick, Mill Finish, Aluminum Drip Edge	11.53	1.76
07 62 19 00-0067 LF >5" To 7" Girth, 0.025" Thick, Mill Finish, Aluminum Drip Edge	14.09	1.88
07 62 19 00-0068 LF >7" To 9" Girth, 0.025" Thick, Mill Finish, Aluminum Drip Edge	16.14	2.11
07 62 19 00-0069 LF >9" To 12" Girth, 0.025" Thick, Mill Finish, Aluminum Drip Edge	19.21	2.23
07 62 19 00-0070 LF >12" To 15" Girth, 0.025" Thick, Mill Finish, Aluminum Drip Edge	23.74	2.35



	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	07 62 19 00-0071	0.032" Thick, Mill Finish, Aluminum Drip Edge <small>(07 62 19 00-0052)</small>		
	07 62 19 00-0072	LF Up To 5" Girth, 0.032" Thick, Mill Finish, Aluminum Drip Edge.....	12.74	1.76
	07 62 19 00-0073	LF >5" To 7" Girth, 0.032" Thick, Mill Finish, Aluminum Drip Edge.....	15.71	1.88
	07 62 19 00-0074	LF >7" To 9" Girth, 0.032" Thick, Mill Finish, Aluminum Drip Edge.....	18.06	2.11
	07 62 19 00-0075	LF >9" To 12" Girth, 0.032" Thick, Mill Finish, Aluminum Drip Edge.....	21.64	2.23
	07 62 19 00-0076	LF >12" To 15" Girth, 0.032" Thick, Mill Finish, Aluminum Drip Edge.....	26.97	2.35
	07 62 19 00-0077	0.040" Thick, Mill Finish, Aluminum Drip Edge <small>(07 62 19 00-0052)</small>		
	07 62 19 00-0078	LF Up To 5" Girth, 0.040" Thick, Mill Finish, Aluminum Drip Edge.....	13.15	1.76
	07 62 19 00-0079	LF >5" To 7" Girth, 0.040" Thick, Mill Finish, Aluminum Drip Edge.....	16.31	1.88
	07 62 19 00-0080	LF >7" To 9" Girth, 0.040" Thick, Mill Finish, Aluminum Drip Edge.....	18.70	2.11
	07 62 19 00-0081	LF >9" To 12" Girth, 0.040" Thick, Mill Finish, Aluminum Drip Edge.....	22.45	2.23
	07 62 19 00-0082	LF >12" To 15" Girth, 0.040" Thick, Mill Finish, Aluminum Drip Edge.....	28.05	2.35
	07 62 19 00-0083	0.050" Thick, Mill Finish, Aluminum Drip Edge <small>(07 62 19 00-0052)</small>		
	07 62 19 00-0084	LF Up To 5" Girth, 0.050" Thick, Mill Finish, Aluminum Drip Edge.....	14.56	1.76
	07 62 19 00-0085	LF >5" To 7" Girth, 0.050" Thick, Mill Finish, Aluminum Drip Edge.....	18.13	1.88
	07 62 19 00-0086	LF >7" To 9" Girth, 0.050" Thick, Mill Finish, Aluminum Drip Edge.....	20.92	2.11
	07 62 19 00-0087	LF >9" To 12" Girth, 0.050" Thick, Mill Finish, Aluminum Drip Edge.....	25.27	2.23
	07 62 19 00-0088	LF >12" To 15" Girth, 0.050" Thick, Mill Finish, Aluminum Drip Edge.....	31.82	2.35
	07 62 19 00-0089	0.063" Thick, Mill Finish, Aluminum Drip Edge <small>(07 62 19 00-0052)</small>		
	07 62 19 00-0090	LF Up To 5" Girth, 0.063" Thick, Mill Finish, Aluminum Drip Edge.....	16.58	1.76
	07 62 19 00-0091	LF >5" To 7" Girth, 0.063" Thick, Mill Finish, Aluminum Drip Edge.....	20.82	1.88
	07 62 19 00-0092	LF >7" To 9" Girth, 0.063" Thick, Mill Finish, Aluminum Drip Edge.....	24.12	2.11
	07 62 19 00-0093	LF >9" To 12" Girth, 0.063" Thick, Mill Finish, Aluminum Drip Edge.....	29.31	2.23
	07 62 19 00-0094	LF >12" To 15" Girth, 0.063" Thick, Mill Finish, Aluminum Drip Edge.....	37.21	2.35
	07 62 19 00-0095	0.080" Thick, Mill Finish, Aluminum Drip Edge <small>(07 62 19 00-0052)</small>		
	07 62 19 00-0096	LF Up To 5" Girth, 0.080" Thick, Mill Finish, Aluminum Drip Edge.....	19.01	1.76
	07 62 19 00-0097	LF >5" To 7" Girth, 0.080" Thick, Mill Finish, Aluminum Drip Edge.....	24.06	1.88
	07 62 19 00-0098	LF >7" To 9" Girth, 0.080" Thick, Mill Finish, Aluminum Drip Edge.....	27.96	2.11
	07 62 19 00-0099	LF >9" To 12" Girth, 0.080" Thick, Mill Finish, Aluminum Drip Edge.....	34.16	2.23
	07 62 19 00-0100	LF >12" To 15" Girth, 0.080" Thick, Mill Finish, Aluminum Drip Edge.....	43.67	2.35
	07 62 19 00-0101	Clear Anodized Finish, Aluminum Drip Edge <small>(07 62 19 00-0002)</small>		
	07 62 19 00-0102	0.016" Thick, Clear Anodized Finish, Aluminum Drip Edge <small>(07 62 19 00-0101)</small>		
	07 62 19 00-0103	LF Up To 5" Girth, 0.016" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	13.03	1.76
	07 62 19 00-0104	LF >5" To 7" Girth, 0.016" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	16.30	1.88
	07 62 19 00-0105	LF >7" To 9" Girth, 0.016" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	18.42	2.11
	07 62 19 00-0106	LF >9" To 12" Girth, 0.016" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	22.21	2.23
	07 62 19 00-0107	LF >12" To 15" Girth, 0.016" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	28.46	2.35
	07 62 19 00-0108	0.019" Thick, Clear Anodized Finish, Aluminum Drip Edge <small>(07 62 19 00-0101)</small>		
	07 62 19 00-0109	LF Up To 5" Girth, 0.019" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	13.96	1.76
	07 62 19 00-0110	LF >5" To 7" Girth, 0.019" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	17.33	1.88
	07 62 19 00-0111	LF >7" To 9" Girth, 0.019" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	19.97	2.11
	07 62 19 00-0112	LF >9" To 12" Girth, 0.019" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	24.08	2.23
	07 62 19 00-0113	LF >12" To 15" Girth, 0.019" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	30.22	2.35
	07 62 19 00-0114	0.025" Thick, Clear Anodized Finish, Aluminum Drip Edge <small>(07 62 19 00-0101)</small>		
	07 62 19 00-0115	LF Up To 5" Girth, 0.025" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	14.90	1.76
	07 62 19 00-0116	LF >5" To 7" Girth, 0.025" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	18.57	1.88
	07 62 19 00-0117	LF >7" To 9" Girth, 0.025" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	21.48	2.11
	07 62 19 00-0118	LF >9" To 12" Girth, 0.025" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	25.94	2.23
	07 62 19 00-0119	LF >12" To 15" Girth, 0.025" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	32.71	2.35
	07 62 19 00-0120	0.032" Thick, Clear Anodized Finish, Aluminum Drip Edge <small>(07 62 19 00-0101)</small>		
	07 62 19 00-0121	LF Up To 5" Girth, 0.032" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	16.76	1.76
	07 62 19 00-0122	LF >5" To 7" Girth, 0.032" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	21.06	1.88
	07 62 19 00-0123	LF >7" To 9" Girth, 0.032" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	24.43	2.11
	07 62 19 00-0124	LF >9" To 12" Girth, 0.032" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	29.67	2.23
	07 62 19 00-0125	LF >12" To 15" Girth, 0.032" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	37.67	2.35
	07 62 19 00-0126	0.040" Thick, Clear Anodized Finish, Aluminum Drip Edge <small>(07 62 19 00-0101)</small>		
	07 62 19 00-0127	LF Up To 5" Girth, 0.040" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	17.38	1.76
	07 62 19 00-0128	LF >5" To 7" Girth, 0.040" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	21.99	1.88

07 Thermal And Moisture Protection**07 60 Flashing and Sheet Metal****07 62 Sheet Metal Flashing and Trim**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 62 19 00-0129 LF >7" To 9" Girth, 0.040" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	25.41	2.11
07 62 19 00-0130 LF >9" To 12" Girth, 0.040" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	30.91	2.23
07 62 19 00-0131 LF >12" To 15" Girth, 0.040" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	39.33	2.35
07 62 19 00-0132 0.050" Thick, Clear Anodized Finish, Aluminum Drip Edge (07 62 19 00-0101)		
07 62 19 00-0133 LF Up To 5" Girth, 0.050" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	19.55	1.76
07 62 19 00-0134 LF >5" To 7" Girth, 0.050" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	24.78	1.88
07 62 19 00-0135 LF >7" To 9" Girth, 0.050" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	28.82	2.11
07 62 19 00-0136 LF >9" To 12" Girth, 0.050" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	35.25	2.23
07 62 19 00-0137 LF >12" To 15" Girth, 0.050" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	45.13	2.35
07 62 19 00-0138 0.063" Thick, Clear Anodized Finish, Aluminum Drip Edge (07 62 19 00-0101)		
07 62 19 00-0139 LF Up To 5" Girth, 0.063" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	22.66	1.76
07 62 19 00-0140 LF >5" To 7" Girth, 0.063" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	28.92	1.88
07 62 19 00-0141 LF >7" To 9" Girth, 0.063" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	33.74	2.11
07 62 19 00-0142 LF >9" To 12" Girth, 0.063" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	41.46	2.23
07 62 19 00-0143 LF >12" To 15" Girth, 0.063" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	53.41	2.35
07 62 19 00-0144 0.080" Thick, Clear Anodized Finish, Aluminum Drip Edge (07 62 19 00-0101)		
07 62 19 00-0145 LF Up To 5" Girth, 0.080" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	26.38	1.76
07 62 19 00-0146 LF >5" To 7" Girth, 0.080" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	33.89	1.88
07 62 19 00-0147 LF >7" To 9" Girth, 0.080" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	39.64	2.11
07 62 19 00-0148 LF >9" To 12" Girth, 0.080" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	48.92	2.23
07 62 19 00-0149 LF >12" To 15" Girth, 0.080" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	63.34	2.35
07 62 19 00-0150 Galvanized Steel Drip Edge (07 62 19 00-0001) Note: Girth (stretch-out) equals the total (flattened) width of the drip edge.		
07 62 19 00-0151 Galvanized Steel Drip Edge (07 62 19 00-0150)		
07 62 19 00-0152 26 Gauge, Galvanized Steel Drip Edge (07 62 19 00-0151)		
07 62 19 00-0153 LF Up To 5" Girth, 26 Gauge, Galvanized Steel Drip Edge	12.01	1.76
07 62 19 00-0154 LF >5" To 7" Girth, 26 Gauge, Galvanized Steel Drip Edge	14.78	1.88
07 62 19 00-0155 LF >7" To 9" Girth, 26 Gauge, Galvanized Steel Drip Edge.....	16.89	2.11
07 62 19 00-0156 LF >9" To 12" Girth, 26 Gauge, Galvanized Steel Drip Edge.....	20.16	2.23
07 62 19 00-0157 LF >12" To 15" Girth, 26 Gauge, Galvanized Steel Drip Edge.....	25.00	2.35
07 62 19 00-0158 24 Gauge, Galvanized Steel Drip Edge (07 62 19 00-0151)		
07 62 19 00-0159 LF Up To 5" Girth, 24 Gauge, Galvanized Steel Drip Edge	13.02	1.76
07 62 19 00-0160 LF >5" To 7" Girth, 24 Gauge, Galvanized Steel Drip Edge.....	16.14	1.88
07 62 19 00-0161 LF >7" To 9" Girth, 24 Gauge, Galvanized Steel Drip Edge.....	18.49	2.11
07 62 19 00-0162 LF >9" To 12" Girth, 24 Gauge, Galvanized Steel Drip Edge.....	22.19	2.23
07 62 19 00-0163 LF >12" To 15" Girth, 24 Gauge, Galvanized Steel Drip Edge.....	27.69	2.35
07 62 19 00-0164 KYNAR 500® Finish, Galvanized Steel Drip Edge (07 62 19 00-0150)		
07 62 19 00-0165 26 Gauge, KYNAR 500® Finish, Galvanized Steel Drip Edge (07 62 19 00-0164)		
07 62 19 00-0166 LF Up To 5" Girth, 26 Gauge, KYNAR 500® Finish, Galvanized Steel Drip Edge	15.04	1.76
07 62 19 00-0167 LF >5" To 7" Girth, 26 Gauge, KYNAR 500® Finish, Galvanized Steel Drip Edge	18.85	1.88
07 62 19 00-0168 LF >7" To 9" Girth, 26 Gauge, KYNAR 500® Finish, Galvanized Steel Drip Edge	21.70	2.11
07 62 19 00-0169 LF >9" To 12" Girth, 26 Gauge, KYNAR 500® Finish, Galvanized Steel Drip Edge	26.22	2.23
07 62 19 00-0170 LF >12" To 15" Girth, 26 Gauge, KYNAR 500® Finish, Galvanized Steel Drip Edge	33.09	2.35
07 62 19 00-0171 24 Gauge, KYNAR 500® Finish, Galvanized Steel Drip Edge (07 62 19 00-0164)		
07 62 19 00-0172 LF Up To 5" Girth, 24 Gauge, KYNAR 500® Finish, Galvanized Steel Drip Edge.....	16.50	1.76
07 62 19 00-0173 LF >5" To 7" Girth, 24 Gauge, KYNAR 500® Finish, Galvanized Steel Drip Edge.....	20.81	1.88
07 62 19 00-0174 LF >7" To 9" Girth, 24 Gauge, KYNAR 500® Finish, Galvanized Steel Drip Edge	24.02	2.11
07 62 19 00-0175 LF >9" To 12" Girth, 24 Gauge, KYNAR 500® Finish, Galvanized Steel Drip Edge	29.15	2.23
07 62 19 00-0176 LF >12" To 15" Girth, 24 Gauge, KYNAR 500® Finish, Galvanized Steel Drip Edge	36.99	2.35
07 62 19 00-0177 Stainless Steel Drip Edge (07 62 19 00-0001) Note: Girth (stretch-out) equals the total (flattened) width of the drip edge.		
07 62 19 00-0178 26 Gauge, Stainless Steel Drip Edge (07 62 19 00-0177)		
07 62 19 00-0179 LF Up To 5" Girth, 26 Gauge, Stainless Steel Drip Edge.....	20.63	1.76
07 62 19 00-0180 LF >5" To 7" Girth, 26 Gauge, Stainless Steel Drip Edge.....	26.22	1.88
07 62 19 00-0181 LF >7" To 9" Girth, 26 Gauge, Stainless Steel Drip Edge	30.53	2.11
07 62 19 00-0182 LF >9" To 12" Girth, 26 Gauge, Stainless Steel Drip Edge.....	37.42	2.23
07 62 19 00-0183 LF >12" To 15" Girth, 26 Gauge, Stainless Steel Drip Edge	48.01	2.35
07 62 19 00-0184 24 Gauge, Stainless Steel Drip Edge (07 62 19 00-0177)		
07 62 19 00-0185 LF Up To 5" Girth, 24 Gauge, Stainless Steel Drip Edge.....	25.47	1.76



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 62 19 00-0186 LF >5" To 7" Girth, 24 Gauge, Stainless Steel Drip Edge	32.67	1.88
07 62 19 00-0187 LF >7" To 9" Girth, 24 Gauge, Stainless Steel Drip Edge	38.22	2.11
07 62 19 00-0188 LF >9" To 12" Girth, 24 Gauge, Stainless Steel Drip Edge	47.09	2.23
07 62 19 00-0189 LF >12" To 15" Girth, 24 Gauge, Stainless Steel Drip Edge	60.90	2.35
07 62 19 00-0190 22 Gauge, Stainless Steel Drip Edge <small>(07 62 19 00-0177)</small>		
07 62 19 00-0191 LF Up To 5" Girth, 22 Gauge, Stainless Steel Drip Edge	31.16	1.76
07 62 19 00-0192 LF >5" To 7" Girth, 22 Gauge, Stainless Steel Drip Edge	40.26	1.88
07 62 19 00-0193 LF >7" To 9" Girth, 22 Gauge, Stainless Steel Drip Edge	47.22	2.11
07 62 19 00-0194 LF >9" To 12" Girth, 22 Gauge, Stainless Steel Drip Edge	58.47	2.23
07 62 19 00-0195 LF >12" To 15" Girth, 22 Gauge, Stainless Steel Drip Edge	76.08	2.35

07 63 Sheet Metal Roofing Specialties (07 60)

07 63 00 00-0001 Pitch Pockets <small>(07 63)</small>	Note: Cut into deck, filled with non-shrink grout, includes blocking.	
07 63 00 00-0002 24 Gauge Galvanized Sheet Metal, Non-Shrink Grout Filled Pitch Pockets <small>(07 63 00 00-0001)</small>		
07 63 00 00-0003 EA 4" x 4" 24 Gauge Galvanized Sheet Metal, Non-Shrink Grout Filled Pitch Pocket	96.48	
For Pourable Sealer Filled, Add	39.13	
For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add	19.58	
07 63 00 00-0004 EA 6" x 6" 24 Gauge Galvanized Sheet Metal, Non-Shrink Grout Filled Pitch Pocket	115.23	
For Pourable Sealer Filled, Add	88.10	
For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add	44.17	
07 63 00 00-0005 EA 8" x 8" 24 Gauge Galvanized Sheet Metal, Non-Shrink Grout Filled Pitch Pocket	139.64	
For Pourable Sealer Filled, Add	156.54	
For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add	78.09	
07 63 00 00-0006 EA 8" x 10" 24 Gauge Galvanized Sheet Metal, Non-Shrink Grout Filled Pitch Pocket	153.73	
For Pourable Sealer Filled, Add	195.67	
For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add	98.15	
07 63 00 00-0007 EA 8" x 12" 24 Gauge Galvanized Sheet Metal, Non-Shrink Grout Filled Pitch Pocket	166.80	
For Pourable Sealer Filled, Add	234.80	
For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add	117.42	
07 63 00 00-0008 SF 24 Gauge Galvanized Sheet Metal, Non-Shrink Grout Filled Pitch Pocket	195.84	
For Pourable Sealer Filled, Add	352.20	
For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add	175.02	
07 63 00 00-0009 16 Ounce Copper Sheet Metal, Non-Shrink Grout Filled Pitch Pockets <small>(07 63 00 00-0001)</small>		
07 63 00 00-0010 EA 4" x 4" 16 Ounce Copper Sheet Metal, Non-Shrink Grout Filled Pitch Pocket	106.53	
For Pourable Sealer Filled, Add	39.13	
For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add	19.58	
07 63 00 00-0011 EA 6" x 6" 16 Ounce Copper Sheet Metal, Non-Shrink Grout Filled Pitch Pocket	127.01	
For Pourable Sealer Filled, Add	88.10	
For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add	44.17	
07 63 00 00-0012 EA 8" x 8" 16 Ounce Copper Sheet Metal, Non-Shrink Grout Filled Pitch Pocket	153.76	
For Pourable Sealer Filled, Add	156.54	
For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add	78.09	
07 63 00 00-0013 EA 8" x 10" 16 Ounce Copper Sheet Metal, Non-Shrink Grout Filled Pitch Pocket	171.47	
For Pourable Sealer Filled, Add	195.67	
For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add	98.15	
07 63 00 00-0014 EA 8" x 12" 16 Ounce Copper Sheet Metal, Non-Shrink Grout Filled Pitch Pocket	184.60	
For Pourable Sealer Filled, Add	234.80	
For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add	117.42	
07 63 00 00-0015 SF 16 Ounce Copper Sheet Metal, Non-Shrink Grout Filled Pitch Pocket	214.73	
For Pourable Sealer Filled, Add	352.20	
For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add	175.02	
07 63 00 00-0016 24 Gauge Stainless Steel Sheet Metal, Non-Shrink Grout Filled Pitch Pockets <small>(07 63 00 00-0001)</small>		
07 63 00 00-0017 EA 4" x 4" 24 Gauge Stainless Steel Sheet Metal, Non-Shrink Grout Filled Pitch Pocket	109.58	
For Pourable Sealer Filled, Add	39.13	
For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add	19.58	
07 63 00 00-0018 EA 6" x 6" 24 Gauge Stainless Steel Sheet Metal, Non-Shrink Grout Filled Pitch Pocket	129.58	
For Pourable Sealer Filled, Add	88.10	
For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add	44.17	
07 63 00 00-0019 EA 8" x 8" 24 Gauge Stainless Steel Sheet Metal, Non-Shrink Grout Filled Pitch Pocket	150.49	
For Pourable Sealer Filled, Add	156.54	
For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add	78.09	
07 63 00 00-0020 EA 8" x 10" 24 Gauge Stainless Steel Sheet Metal, Non-Shrink Grout Filled Pitch Pocket	163.86	
For Pourable Sealer Filled, Add	195.67	
For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add	98.15	
07 63 00 00-0021 EA 8" x 12" 24 Gauge Stainless Steel Sheet Metal, Non-Shrink Grout Filled Pitch Pocket	176.02	
For Pourable Sealer Filled, Add	234.80	
For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add	117.42	
07 63 00 00-0022 SF 24 Gauge Stainless Steel Sheet Metal, Non-Shrink Grout Filled Pitch Pocket	203.15	
For Pourable Sealer Filled, Add	352.20	
For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add	175.02	

07 Thermal And Moisture Protection**07 60 Flashing and Sheet Metal****07 63 Sheet Metal Roofing Specialties**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 63 00 00-0023 Clean, Repair And Refill Existing Pitch Pockets With Non-Shrink Grout ^(07 63 00 00-0001)		
Note: Includes removing existing filler and refilling with non-shrink grout.		
07 63 00 00-0024 EA Clean, Repair And Refill Existing 4" x 4" Pitch Pocket With Non-Shrink Grout.....	77.77	
For Pourable Sealer Filled, Add	39.13	
For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add	19.58	
07 63 00 00-0025 EA Clean, Repair And Refill Existing 6" x 6" Pitch Pocket With Non-Shrink Grout.....	89.36	
For Pourable Sealer Filled, Add	88.10	
For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add	44.17	
07 63 00 00-0026 EA Clean, Repair And Refill Existing 8" x 8" Pitch Pocket With Non-Shrink Grout.....	104.76	
For Pourable Sealer Filled, Add	156.54	
For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add	78.09	
07 63 00 00-0027 EA Clean, Repair And Refill Existing 8" x 10" Pitch Pocket With Non-Shrink Grout.....	114.54	
For Pourable Sealer Filled, Add	195.67	
For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add	98.15	
07 63 00 00-0028 EA Clean, Repair And Refill Existing 8" x 12" Pitch Pocket With Non-Shrink Grout.....	124.32	
For Pourable Sealer Filled, Add	234.80	
For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add	117.42	
07 63 00 00-0029 SF Clean, Repair And Refill Existing Pitch Pocket With Non-Shrink Grout.....	148.95	
For Pourable Sealer Filled, Add	352.20	
For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add	175.02	
07 63 00 00-0030 Lead Pipe Flashing For Roofs ^(07 63)		
Note: Includes 6" skirt base.		
07 63 00 00-0031 EA 1-1/4" ID x 12" Riser Pipe, 4 LB Lead Pipe Flashing For Roofs, Fits 3/4" Pipe.....	115.21	40.27
07 63 00 00-0032 EA 1-1/2" ID x 12" Riser Pipe, 4 LB Lead Pipe Flashing For Roofs, Fits 1" Pipe.....	115.21	40.27
07 63 00 00-0033 EA 2-3/4" ID x 12" Riser Pipe, 4 LB Lead Pipe Flashing For Roofs, Fits 2" Pipe.....	134.63	40.27
07 63 00 00-0034 EA 3-3/4" ID x 12" Riser Pipe, 4 LB Lead Pipe Flashing For Roofs, Fits 3" Pipe.....	145.73	40.27
07 63 00 00-0035 EA 4-1/4" ID x 12" Riser Pipe, 4 LB Lead Pipe Flashing For Roofs, Fits 3-1/2" Pipe.....	151.28	40.27
07 63 00 00-0036 EA 4-3/4" ID x 12" Riser Pipe, 4 LB Lead Pipe Flashing For Roofs, Fits 4" Pipe.....	154.05	40.27
07 63 00 00-0037 EA 6-7/8" ID x 12" Riser Pipe, 4 LB Lead Pipe Flashing For Roofs, Fits 6" Pipe.....	181.79	40.27
07 63 00 00-0038 EA 8-7/8" ID x 12" Riser Pipe, 4 LB Lead Pipe Flashing For Roofs, Fits 8" Pipe.....	194.28	40.27
07 63 00 00-0039 Galvanized Metal Flashing With Neoprene Collar, Shingle Roofing ^(07 63)		
07 63 00 00-0040 EA 2" Vent Through Roof, Galvanized Metal Flashing With Neoprene Collar, Shingle Roofing.....	98.55	26.03
07 63 00 00-0041 EA 3" Vent Through Roof, Galvanized Metal Flashing With Neoprene Collar, Shingle Roofing.....	99.66	26.03
07 63 00 00-0042 EA 4" Vent Through Roof, Galvanized Metal Flashing With Neoprene Collar, Shingle Roofing.....	103.68	26.03
07 63 00 00-0043 EA 6" Vent Through Roof, Galvanized Metal Flashing With Neoprene Collar, Shingle Roofing.....	107.14	26.03
07 65 Flexible Flashing ^(07 60)		
07 65 16 Modified Bituminous Sheet Flashing ^(07 65)		
07 65 16 00-0001 Liquid Flashing System For Modified And BUR Systems ^(07 65 16)		
See CSI section 07 51 13 00-0036 for ceramic coated roofing granules.		
07 65 16 00-0002 SF 60 Mil, Urethane Elastomer Liquid Applied Flashing.....	14.39	2.23
Note: Includes applying a 30 mil base coat, rolling in a stichbonded polyester reinforcing scrim and applying a 30 mil second coat.		
07 65 19 Plastic Sheet Flashing ^(07 65)		
07 65 19 00-0001 Plastic Flashing And Trim ^(07 65 19)		
07 65 19 00-0002 Neoprene Flashing ^(07 65 19 00-0001)		
07 65 19 00-0003 60 Mil Neoprene Flashing ^(07 65 19 00-0002)		
07 65 19 00-0004 LF 6" Wide Strip, 60 Mil, Neoprene Flashing.....	9.90	3.16
07 65 19 00-0005 LF 12" Wide Strip, 60 Mil, Neoprene Flashing.....	13.15	3.40
07 65 19 00-0006 LF 18" Wide Strip, 60 Mil, Neoprene Flashing.....	16.75	3.75
07 65 19 00-0007 LF 24" Wide Strip, 60 Mil, Neoprene Flashing.....	20.56	4.22
07 65 33 Flexible Roof Boot ^(07 65)		
07 65 33 00-0001 Neoprene Roof Boot ^(07 65 33)		
07 65 33 00-0002 EA 2" Diameter Pipe, Neoprene Roof Boot.....	58.53	9.73
07 65 33 00-0003 EA 3" Diameter Pipe, Neoprene Roof Boot.....	70.17	10.90
07 65 33 00-0004 EA 4" Diameter Pipe, Neoprene Roof Boot.....	79.00	11.73
07 70 Roof and Wall Specialties and Accessories ⁽⁰⁷⁾		
07 71 Roof Specialties ^(07 70)		
07 71 13 Manufactured Copings ^(07 71)		
07 71 13 00-0001 Galvanized Steel Copings ^(07 71 13)		



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 13 00-0002				KYNAR 500® Finish, Galvanized Steel Coping System With Galvanized Steel Cleats <small>(07 71 13 00-0001)</small> Note: Stretch-out width = face height + wall thickness + back leg. Coping system includes matching joint splice plate, galvanized steel cleats and stainless steel fasteners.		
07 71 13 00-0003	LF			10" To 14" Wide (Stretch-out), 24 Gauge, KYNAR 500® Finish, Galvanized Steel Coping System With Galvanized Steel Cleats	34.18	2.53
				For Up To 25 LF, Add	5.11	
				For >25 To 100 LF, Add	2.55	
				For >1,000 LF, Deduct	-0.42	
07 71 13 00-0004	LF			>14" To 16" Wide (Stretch-out), 24 Gauge, KYNAR 500® Finish, Galvanized Steel Coping System With Galvanized Steel Cleats	36.07	2.74
				For Up To 25 LF, Add	5.44	
				For >25 To 100 LF, Add	2.72	
				For >1,000 LF, Deduct	-0.46	
07 71 13 00-0005	LF			>16" To 22" Wide (Stretch-out), 24 Gauge, KYNAR 500® Finish, Galvanized Steel Coping System With Galvanized Steel Cleats	41.11	2.88
				For Up To 25 LF, Add	6.04	
				For >25 To 100 LF, Add	3.02	
				For >1,000 LF, Deduct	-0.48	
07 71 13 00-0006	LF			>22" To 30" Wide (Stretch-out), 24 Gauge, KYNAR 500® Finish, Galvanized Steel Coping System With Galvanized Steel Cleats	47.72	3.16
				For Up To 25 LF, Add	6.88	
				For >25 To 100 LF, Add	3.44	
				For >1,000 LF, Deduct	-0.53	
07 71 13 00-0007	LF			>30" To 42" Wide (Stretch-out), 24 Gauge, KYNAR 500® Finish, Galvanized Steel Coping System With Galvanized Steel Cleats	57.63	3.30
				For Up To 25 LF, Add	7.97	
				For >25 To 100 LF, Add	3.98	
				For >1,000 LF, Deduct	-0.55	
07 71 13 00-0008				Aluminum Copings <small>(07 71 13)</small>		
07 71 13 00-0009				Mill Finish, Aluminum Coping System With Galvanized Steel Cleats <small>(07 71 13 00-0009)</small> Note: Stretch-out width = face height + wall thickness + back leg. Coping system includes matching joint splice plate, galvanized steel cleats and stainless steel fasteners.		
07 71 13 00-0010				0.040" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats <small>(07 71 13 00-0009)</small>		
07 71 13 00-0011	LF			10" To 14" Wide (Stretch-out), 0.040" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats	27.19	2.53
				For Up To 25 LF, Add	4.41	
				For >25 To 100 LF, Add	2.20	
				For >1,000 LF, Deduct	-0.42	
07 71 13 00-0012	LF			>14" To 16" Wide (Stretch-out), 0.040" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats	29.03	2.74
				For Up To 25 LF, Add	4.73	
				For >25 To 100 LF, Add	2.37	
				For >1,000 LF, Deduct	-0.46	
07 71 13 00-0013	LF			>16" To 22" Wide (Stretch-out), 0.040" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats	33.81	2.88
				For Up To 25 LF, Add	5.31	
				For >25 To 100 LF, Add	2.65	
				For >1,000 LF, Deduct	-0.48	
07 71 13 00-0014	LF			>22" To 30" Wide (Stretch-out), 0.040" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats	40.33	3.16
				For Up To 25 LF, Add	6.14	
				For >25 To 100 LF, Add	3.07	
				For >1,000 LF, Deduct	-0.53	
07 71 13 00-0015	LF			>30" To 42" Wide (Stretch-out), 0.040" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats	50.05	3.30
				For Up To 25 LF, Add	7.21	
				For >25 To 100 LF, Add	3.60	
				For >1,000 LF, Deduct	-0.55	
07 71 13 00-0016				0.050" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats <small>(07 71 13 00-0009)</small>		
07 71 13 00-0017	LF			10" To 14" Wide (Stretch-out), 0.050" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats	29.49	2.53
				For Up To 25 LF, Add	4.64	
				For >25 To 100 LF, Add	2.32	
				For >1,000 LF, Deduct	-0.42	
07 71 13 00-0018	LF			>14" To 16" Wide (Stretch-out), 0.050" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats	31.48	2.74
				For Up To 25 LF, Add	4.98	
				For >25 To 100 LF, Add	2.49	
				For >1,000 LF, Deduct	-0.46	
07 71 13 00-0019	LF			>16" To 22" Wide (Stretch-out), 0.050" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats	36.71	2.88
				For Up To 25 LF, Add	5.60	
				For >25 To 100 LF, Add	2.80	
				For >1,000 LF, Deduct	-0.48	
07 71 13 00-0020	LF			>22" To 30" Wide (Stretch-out), 0.050" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats	43.84	3.16
				For Up To 25 LF, Add	6.49	
				For >25 To 100 LF, Add	3.25	
				For >1,000 LF, Deduct	-0.53	
07 71 13 00-0021	LF			>30" To 42" Wide (Stretch-out), 0.050" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats	54.50	3.30
				For Up To 25 LF, Add	7.65	
				For >25 To 100 LF, Add	3.83	
				For >1,000 LF, Deduct	-0.55	

07	Thermal And Moisture Protection
07 70	Roof and Wall Specialties and Accessories
07 71	Roof Specialties



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 13 00-0022			0.063" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats (07 71 13 00-0009)		
07 71 13 00-0023	LF		10" To 14" Wide (Stretch-out), 0.063" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats	31.38	2.53
			<i>For Up To 25 LF, Add</i>	4.83	
			<i>For >25 To 100 LF, Add</i>	2.41	
			<i>For >1,000 LF, Deduct</i>	-0.42	
07 71 13 00-0024	LF		>14" To 16" Wide (Stretch-out), 0.063" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats	33.66	2.74
			<i>For Up To 25 LF, Add</i>	5.19	
			<i>For >25 To 100 LF, Add</i>	2.60	
			<i>For >1,000 LF, Deduct</i>	-0.46	
07 71 13 00-0025	LF		>16" To 22" Wide (Stretch-out), 0.063" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats	40.32	2.88
			<i>For Up To 25 LF, Add</i>	5.96	
			<i>For >25 To 100 LF, Add</i>	2.98	
			<i>For >1,000 LF, Deduct</i>	-0.48	
07 71 13 00-0026	LF		>22" To 30" Wide (Stretch-out), 0.063" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats	50.30	3.16
			<i>For Up To 25 LF, Add</i>	7.14	
			<i>For >25 To 100 LF, Add</i>	3.57	
			<i>For >1,000 LF, Deduct</i>	-0.53	
07 71 13 00-0027	LF		>30" To 42" Wide (Stretch-out), 0.063" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats	64.96	3.30
			<i>For Up To 25 LF, Add</i>	8.70	
			<i>For >25 To 100 LF, Add</i>	4.35	
			<i>For >1,000 LF, Deduct</i>	-0.55	
07 71 13 00-0028			KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats (07 71 13 00-0008)		
			Note: Stretch-out width = face height + wall thickness + back leg. Coping system includes matching joint splice plate, galvanized steel cleats and stainless steel fasteners.		
07 71 13 00-0029			0.040" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats (07 71 13 00-0028)		
07 71 13 00-0030	LF		10" To 14" Wide (Stretch-out), 0.040" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats	37.53	2.53
			<i>For Up To 25 LF, Add</i>	5.44	
			<i>For >25 To 100 LF, Add</i>	2.72	
			<i>For >1,000 LF, Deduct</i>	-0.42	
07 71 13 00-0031	LF		>14" To 16" Wide (Stretch-out), 0.040" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats	40.04	2.74
			<i>For Up To 25 LF, Add</i>	5.83	
			<i>For >25 To 100 LF, Add</i>	2.92	
			<i>For >1,000 LF, Deduct</i>	-0.46	
07 71 13 00-0032	LF		>16" To 22" Wide (Stretch-out), 0.040" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats	46.86	2.88
			<i>For Up To 25 LF, Add</i>	6.61	
			<i>For >25 To 100 LF, Add</i>	3.31	
			<i>For >1,000 LF, Deduct</i>	-0.48	
07 71 13 00-0033	LF		>22" To 30" Wide (Stretch-out), 0.040" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats	56.11	3.16
			<i>For Up To 25 LF, Add</i>	7.72	
			<i>For >25 To 100 LF, Add</i>	3.86	
			<i>For >1,000 LF, Deduct</i>	-0.53	
07 71 13 00-0034	LF		>30" To 42" Wide (Stretch-out), 0.040" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats	70.09	3.30
			<i>For Up To 25 LF, Add</i>	9.21	
			<i>For >25 To 100 LF, Add</i>	4.61	
			<i>For >1,000 LF, Deduct</i>	-0.55	
07 71 13 00-0035			0.050" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats (07 71 13 00-0028)		
07 71 13 00-0036	LF		10" To 14" Wide (Stretch-out), 0.050" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats	40.86	2.53
			<i>For Up To 25 LF, Add</i>	5.77	
			<i>For >25 To 100 LF, Add</i>	2.89	
			<i>For >1,000 LF, Deduct</i>	-0.42	
07 71 13 00-0037	LF		>14" To 16" Wide (Stretch-out), 0.050" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats	43.58	2.74
			<i>For Up To 25 LF, Add</i>	6.19	
			<i>For >25 To 100 LF, Add</i>	3.09	
			<i>For >1,000 LF, Deduct</i>	-0.46	
07 71 13 00-0038	LF		>16" To 22" Wide (Stretch-out), 0.050" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats	51.07	2.88
			<i>For Up To 25 LF, Add</i>	7.03	
			<i>For >25 To 100 LF, Add</i>	3.52	
			<i>For >1,000 LF, Deduct</i>	-0.48	
07 71 13 00-0039	LF		>22" To 30" Wide (Stretch-out), 0.050" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats	61.19	3.16
			<i>For Up To 25 LF, Add</i>	8.23	
			<i>For >25 To 100 LF, Add</i>	4.11	
			<i>For >1,000 LF, Deduct</i>	-0.53	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 13 00-0040 LF >30" To 42" Wide (Stretch-out), 0.050" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats	76.55	3.30
<i>For Up To 25 LF, Add</i>	9.86	
<i>For >25 To 100 LF, Add</i>	4.93	
<i>For >1,000 LF, Deduct</i>	-0.55	
07 71 13 00-0041 0.063" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats (07 71 13 00-0028)		
07 71 13 00-0042 LF 10" To 14" Wide (Stretch-out), 0.063" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats	43.60	2.53
<i>For Up To 25 LF, Add</i>	6.05	
<i>For >25 To 100 LF, Add</i>	3.02	
<i>For >1,000 LF, Deduct</i>	-0.42	
07 71 13 00-0043 LF >14" To 16" Wide (Stretch-out), 0.063" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats	46.75	2.74
<i>For Up To 25 LF, Add</i>	6.50	
<i>For >25 To 100 LF, Add</i>	3.25	
<i>For >1,000 LF, Deduct</i>	-0.46	
07 71 13 00-0044 LF >16" To 22" Wide (Stretch-out), 0.063" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats	56.29	2.88
<i>For Up To 25 LF, Add</i>	7.55	
<i>For >25 To 100 LF, Add</i>	3.78	
<i>For >1,000 LF, Deduct</i>	-0.48	
07 71 13 00-0045 LF >22" To 30" Wide (Stretch-out), 0.063" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats	70.56	3.16
<i>For Up To 25 LF, Add</i>	9.16	
<i>For >25 To 100 LF, Add</i>	4.58	
<i>For >1,000 LF, Deduct</i>	-0.53	
07 71 13 00-0046 LF >30" To 42" Wide (Stretch-out), 0.063" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats	91.71	3.30
<i>For Up To 25 LF, Add</i>	11.38	
<i>For >25 To 100 LF, Add</i>	5.69	
<i>For >1,000 LF, Deduct</i>	-0.55	
07 71 13 00-0047 Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats (07 71 13 00-0008)		
Note: Stretch-out width = face height + wall thickness + back leg. Coping system includes matching joint splice plate, galvanized steel cleats and stainless steel fasteners.		
07 71 13 00-0048 0.040" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats (07 71 13 00-0047)		
07 71 13 00-0049 LF 10" To 14" Wide (Stretch-out), 0.040" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats	39.53	2.53
<i>For Up To 25 LF, Add</i>	5.64	
<i>For >25 To 100 LF, Add</i>	2.82	
<i>For >1,000 LF, Deduct</i>	-0.42	
07 71 13 00-0050 LF >14" To 16" Wide (Stretch-out), 0.040" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats	42.17	2.74
<i>For Up To 25 LF, Add</i>	6.05	
<i>For >25 To 100 LF, Add</i>	3.02	
<i>For >1,000 LF, Deduct</i>	-0.46	
07 71 13 00-0051 LF >16" To 22" Wide (Stretch-out), 0.040" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats	49.38	2.88
<i>For Up To 25 LF, Add</i>	6.86	
<i>For >25 To 100 LF, Add</i>	3.43	
<i>For >1,000 LF, Deduct</i>	-0.48	
07 71 13 00-0052 LF >22" To 30" Wide (Stretch-out), 0.040" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats	59.16	3.16
<i>For Up To 25 LF, Add</i>	8.02	
<i>For >25 To 100 LF, Add</i>	4.01	
<i>For >1,000 LF, Deduct</i>	-0.53	
07 71 13 00-0053 LF >30" To 42" Wide (Stretch-out), 0.040" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats	73.96	3.30
<i>For Up To 25 LF, Add</i>	9.60	
<i>For >25 To 100 LF, Add</i>	4.80	
<i>For >1,000 LF, Deduct</i>	-0.55	
07 71 13 00-0054 0.050" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats (07 71 13 00-0047)		
07 71 13 00-0055 LF 10" To 14" Wide (Stretch-out), 0.050" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats	43.06	2.53
<i>For Up To 25 LF, Add</i>	5.99	
<i>For >25 To 100 LF, Add</i>	3.00	
<i>For >1,000 LF, Deduct</i>	-0.42	
07 71 13 00-0056 LF >14" To 16" Wide (Stretch-out), 0.050" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats	45.93	2.74
<i>For Up To 25 LF, Add</i>	6.42	
<i>For >25 To 100 LF, Add</i>	3.21	
<i>For >1,000 LF, Deduct</i>	-0.46	

07	Thermal And Moisture Protection
07 70	Roof and Wall Specialties and Accessories
07 71	Roof Specialties



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 13 00-0057	LF		>16" To 22" Wide (Stretch-out), 0.050" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats	53.84	2.88
			For Up To 25 LF, Add	7.31	
			For >25 To 100 LF, Add	3.65	
			For >1,000 LF, Deduct	-0.48	
07 71 13 00-0058	LF		>22" To 30" Wide (Stretch-out), 0.050" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats	64.54	3.16
			For Up To 25 LF, Add	8.56	
			For >25 To 100 LF, Add	4.28	
			For >1,000 LF, Deduct	-0.53	
07 71 13 00-0059	LF		>30" To 42" Wide (Stretch-out), 0.050" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats	80.81	3.30
			For Up To 25 LF, Add	10.29	
			For >25 To 100 LF, Add	5.14	
			For >1,000 LF, Deduct	-0.55	
07 71 13 00-0060			0.063" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats (07 71 13 00-0047)		
07 71 13 00-0061	LF		10" To 14" Wide (Stretch-out), 0.063" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats	45.96	2.53
			For Up To 25 LF, Add	6.28	
			For >25 To 100 LF, Add	3.14	
			For >1,000 LF, Deduct	-0.42	
07 71 13 00-0062	LF		>14" To 16" Wide (Stretch-out), 0.063" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats	49.28	2.74
			For Up To 25 LF, Add	6.76	
			For >25 To 100 LF, Add	3.38	
			For >1,000 LF, Deduct	-0.46	
07 71 13 00-0063	LF		>16" To 22" Wide (Stretch-out), 0.063" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats	59.38	2.88
			For Up To 25 LF, Add	7.86	
			For >25 To 100 LF, Add	3.93	
			For >1,000 LF, Deduct	-0.48	
07 71 13 00-0064	LF		>22" To 30" Wide (Stretch-out), 0.063" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats	74.48	3.16
			For Up To 25 LF, Add	9.56	
			For >25 To 100 LF, Add	4.78	
			For >1,000 LF, Deduct	-0.53	
07 71 13 00-0065	LF		>30" To 42" Wide (Stretch-out), 0.063" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats	96.88	3.30
			For Up To 25 LF, Add	11.89	
			For >25 To 100 LF, Add	5.95	
			For >1,000 LF, Deduct	-0.55	
07 71 13 00-0066			Removal And Reinstallation Of Metal Coping (07 71 13)		
07 71 13 00-0067	LF		Removal And Reinstallation Of Metal Coping	10.67	
			For Up To 25 LF, Add	5.34	
			For >25 To 100 LF, Add	2.67	
			For >1,000 LF, Deduct	-1.07	
07 71 19			Manufactured Gravel Stops and Fasciae (07 71)		
07 71 19 00-0001			Gravel Stop (07 71 19)		
07 71 19 00-0002			Aluminum Gravel Stop (07 71 19 00-0001)		
07 71 19 00-0003			Aluminum Gravel Stop (07 71 19 00-0002)		
07 71 19 00-0004			KYNAR 500® Finish, Aluminum Gravel Stop (07 71 19 00-0003)		
07 71 19 00-0005			0.032" Thick, KYNAR 500® Finish, Aluminum Gravel Stop (07 71 19 00-0004)		
07 71 19 00-0006	LF		4" To 6" Face Height, 0.032" Thick, KYNAR 500® Finish, Aluminum Gravel Stop	38.85	2.00
			For Up To 25 LF, Add	6.23	
			For >25 To 100 LF, Add	3.11	
			For >1,000 LF, Deduct	-0.59	
07 71 19 00-0007	LF		>6" To 10" Face Height, 0.032" Thick, KYNAR 500® Finish, Aluminum Gravel Stop	40.18	2.35
			For Up To 25 LF, Add	6.79	
			For >25 To 100 LF, Add	3.39	
			For >1,000 LF, Deduct	-0.69	
07 71 19 00-0008	LF		>10" To 18" Face Height, 0.032" Thick, KYNAR 500® Finish, Aluminum Gravel Stop	41.54	2.58
			For Up To 25 LF, Add	7.29	
			For >25 To 100 LF, Add	3.65	
			For >1,000 LF, Deduct	-0.79	
07 71 19 00-0009			0.040" Thick, KYNAR 500® Finish, Aluminum Gravel Stop (07 71 19 00-0004)		
07 71 19 00-0010	LF		4" To 6" Face Height, 0.040" Thick, KYNAR 500® Finish, Aluminum Gravel Stop	41.28	2.00
			For Up To 25 LF, Add	6.47	
			For >25 To 100 LF, Add	3.24	
			For >1,000 LF, Deduct	-0.59	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 19 00-0011 LF >6" To 10" Face Height, 0.040" Thick, KYNAR 500® Finish, Aluminum Gravel Stop.....	42.71	2.35
<i>For Up To 25 LF, Add</i>	7.04	
<i>For >25 To 100 LF, Add</i>	3.52	
<i>For >1,000 LF, Deduct</i>	-0.69	
07 71 19 00-0012 LF >10" To 18" Face Height, 0.040" Thick, KYNAR 500® Finish, Aluminum Gravel Stop.....	44.21	2.58
<i>For Up To 25 LF, Add</i>	7.56	
<i>For >25 To 100 LF, Add</i>	3.78	
<i>For >1,000 LF, Deduct</i>	-0.79	
07 71 19 00-0013 0.050" Thick, KYNAR 500® Finish, Aluminum Gravel Stop <small>(07 71 19 00-0004)</small>		
07 71 19 00-0014 LF 4" To 6" Face Height, 0.050" Thick, KYNAR 500® Finish, Aluminum Gravel Stop.....	44.44	2.00
<i>For Up To 25 LF, Add</i>	6.79	
<i>For >25 To 100 LF, Add</i>	3.39	
<i>For >1,000 LF, Deduct</i>	-0.59	
07 71 19 00-0015 LF >6" To 10" Face Height, 0.050" Thick, KYNAR 500® Finish, Aluminum Gravel Stop.....	45.74	2.35
<i>For Up To 25 LF, Add</i>	7.34	
<i>For >25 To 100 LF, Add</i>	3.67	
<i>For >1,000 LF, Deduct</i>	-0.69	
07 71 19 00-0016 LF >10" To 18" Face Height, 0.050" Thick, KYNAR 500® Finish, Aluminum Gravel Stop.....	47.58	2.58
<i>For Up To 25 LF, Add</i>	7.90	
<i>For >25 To 100 LF, Add</i>	3.95	
<i>For >1,000 LF, Deduct</i>	-0.79	
07 71 19 00-0017 0.063" Thick, KYNAR 500® Finish, Aluminum Gravel Stop <small>(07 71 19 00-0004)</small>		
07 71 19 00-0018 LF 4" To 6" Face Height, 0.063" Thick, KYNAR 500® Finish, Aluminum Gravel Stop.....	46.59	2.00
<i>For Up To 25 LF, Add</i>	7.00	
<i>For >25 To 100 LF, Add</i>	3.50	
<i>For >1,000 LF, Deduct</i>	-0.59	
07 71 19 00-0019 LF >6" To 10" Face Height, 0.063" Thick, KYNAR 500® Finish, Aluminum Gravel Stop.....	47.97	2.35
<i>For Up To 25 LF, Add</i>	7.57	
<i>For >25 To 100 LF, Add</i>	3.78	
<i>For >1,000 LF, Deduct</i>	-0.69	
07 71 19 00-0020 LF >10" To 18" Face Height, 0.063" Thick, KYNAR 500® Finish, Aluminum Gravel Stop.....	49.93	2.58
<i>For Up To 25 LF, Add</i>	8.13	
<i>For >25 To 100 LF, Add</i>	4.07	
<i>For >1,000 LF, Deduct</i>	-0.79	
07 71 19 00-0021 Mill Finish, Aluminum Gravel Stop <small>(07 71 19 00-0003)</small>		
07 71 19 00-0022 0.032" Thick, Mill Finish, Aluminum Gravel Stop <small>(07 71 19 00-0021)</small>		
07 71 19 00-0023 LF 4" To 6" Face Height, 0.032" Thick, Mill Finish, Aluminum Gravel Stop.....	25.39	2.00
<i>For Up To 25 LF, Add</i>	4.88	
<i>For >25 To 100 LF, Add</i>	2.44	
<i>For >1,000 LF, Deduct</i>	-0.59	
07 71 19 00-0024 LF >6" To 10" Face Height, 0.032" Thick, Mill Finish, Aluminum Gravel Stop.....	27.39	2.35
<i>For Up To 25 LF, Add</i>	5.51	
<i>For >25 To 100 LF, Add</i>	2.75	
<i>For >1,000 LF, Deduct</i>	-0.69	
07 71 19 00-0025 LF >10" To 18" Face Height, 0.032" Thick, Mill Finish, Aluminum Gravel Stop.....	29.40	2.58
<i>For Up To 25 LF, Add</i>	6.08	
<i>For >25 To 100 LF, Add</i>	3.04	
<i>For >1,000 LF, Deduct</i>	-0.79	
07 71 19 00-0026 0.040" Thick, Mill Finish, Aluminum Gravel Stop <small>(07 71 19 00-0021)</small>		
07 71 19 00-0027 LF 4" To 6" Face Height, 0.040" Thick, Mill Finish, Aluminum Gravel Stop.....	27.41	2.00
<i>For Up To 25 LF, Add</i>	5.09	
<i>For >25 To 100 LF, Add</i>	2.54	
<i>For >1,000 LF, Deduct</i>	-0.59	
07 71 19 00-0028 LF >6" To 10" Face Height, 0.040" Thick, Mill Finish, Aluminum Gravel Stop.....	29.14	2.35
<i>For Up To 25 LF, Add</i>	5.68	
<i>For >25 To 100 LF, Add</i>	2.84	
<i>For >1,000 LF, Deduct</i>	-0.69	
07 71 19 00-0029 LF >10" To 18" Face Height, 0.040" Thick, Mill Finish, Aluminum Gravel Stop.....	30.74	2.58
<i>For Up To 25 LF, Add</i>	6.21	
<i>For >25 To 100 LF, Add</i>	3.11	
<i>For >1,000 LF, Deduct</i>	-0.79	
07 71 19 00-0030 0.050" Thick, Mill Finish, Aluminum Gravel Stop <small>(07 71 19 00-0021)</small>		
07 71 19 00-0031 LF 4" To 6" Face Height, 0.050" Thick, Mill Finish, Aluminum Gravel Stop.....	29.43	2.00
<i>For Up To 25 LF, Add</i>	5.29	
<i>For >25 To 100 LF, Add</i>	2.64	
<i>For >1,000 LF, Deduct</i>	-0.59	
07 71 19 00-0032 LF >6" To 10" Face Height, 0.050" Thick, Mill Finish, Aluminum Gravel Stop.....	31.16	2.35
<i>For Up To 25 LF, Add</i>	5.88	
<i>For >25 To 100 LF, Add</i>	2.94	
<i>For >1,000 LF, Deduct</i>	-0.69	

07	Thermal And Moisture Protection
07 70	Roof and Wall Specialties and Accessories
07 71	Roof Specialties



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 19 00-0033	LF		>10" To 18" Face Height, 0.050" Thick, Mill Finish, Aluminum Gravel Stop	32.93	2.58
			<i>For Up To 25 LF, Add</i>	6.43	
			<i>For >25 To 100 LF, Add</i>	3.22	
			<i>For >1,000 LF, Deduct</i>	-0.79	
07 71 19 00-0034			0.063" Thick, Mill Finish, Aluminum Gravel Stop (07 71 19 00-0021)		
07 71 19 00-0035	LF		4" To 6" Face Height, 0.063" Thick, Mill Finish, Aluminum Gravel Stop	31.62	2.00
			<i>For Up To 25 LF, Add</i>	5.51	
			<i>For >25 To 100 LF, Add</i>	2.75	
			<i>For >1,000 LF, Deduct</i>	-0.59	
07 71 19 00-0036	LF		>6" To 10" Face Height, 0.063" Thick, Mill Finish, Aluminum Gravel Stop	33.18	2.35
			<i>For Up To 25 LF, Add</i>	6.09	
			<i>For >25 To 100 LF, Add</i>	3.04	
			<i>For >1,000 LF, Deduct</i>	-0.69	
07 71 19 00-0037	LF		>10" To 18" Face Height, 0.063" Thick, Mill Finish, Aluminum Gravel Stop	34.56	2.58
			<i>For Up To 25 LF, Add</i>	6.60	
			<i>For >25 To 100 LF, Add</i>	3.30	
			<i>For >1,000 LF, Deduct</i>	-0.79	
07 71 19 00-0038			Clear Anodized Finish, Aluminum Gravel Stop (07 71 19 00-0003)		
07 71 19 00-0039			0.032" Thick, Clear Anodized Finish, Aluminum Gravel Stop (07 71 19 00-0038)		
07 71 19 00-0040	LF		4" To 6" Face Height, 0.032" Thick, Clear Anodized Finish, Aluminum Gravel Stop	46.32	2.00
			<i>For Up To 25 LF, Add</i>	6.98	
			<i>For >25 To 100 LF, Add</i>	3.49	
			<i>For >1,000 LF, Deduct</i>	-0.59	
07 71 19 00-0041	LF		>6" To 10" Face Height, 0.032" Thick, Clear Anodized Finish, Aluminum Gravel Stop	47.97	2.35
			<i>For Up To 25 LF, Add</i>	7.57	
			<i>For >25 To 100 LF, Add</i>	3.78	
			<i>For >1,000 LF, Deduct</i>	-0.69	
07 71 19 00-0042	LF		>10" To 18" Face Height, 0.032" Thick, Clear Anodized Finish, Aluminum Gravel Stop	49.44	2.58
			<i>For Up To 25 LF, Add</i>	8.08	
			<i>For >25 To 100 LF, Add</i>	4.04	
			<i>For >1,000 LF, Deduct</i>	-0.79	
07 71 19 00-0043			0.040" Thick, Clear Anodized Finish, Aluminum Gravel Stop (07 71 19 00-0038)		
07 71 19 00-0044	LF		4" To 6" Face Height, 0.040" Thick, Clear Anodized Finish, Aluminum Gravel Stop	49.24	2.00
			<i>For Up To 25 LF, Add</i>	7.27	
			<i>For >25 To 100 LF, Add</i>	3.63	
			<i>For >1,000 LF, Deduct</i>	-0.59	
07 71 19 00-0045	LF		>6" To 10" Face Height, 0.040" Thick, Clear Anodized Finish, Aluminum Gravel Stop	51.01	2.35
			<i>For Up To 25 LF, Add</i>	7.87	
			<i>For >25 To 100 LF, Add</i>	3.93	
			<i>For >1,000 LF, Deduct</i>	-0.69	
07 71 19 00-0046	LF		>10" To 18" Face Height, 0.040" Thick, Clear Anodized Finish, Aluminum Gravel Stop	52.63	2.58
			<i>For Up To 25 LF, Add</i>	8.40	
			<i>For >25 To 100 LF, Add</i>	4.20	
			<i>For >1,000 LF, Deduct</i>	-0.79	
07 71 19 00-0047			0.050" Thick, Clear Anodized Finish, Aluminum Gravel Stop (07 71 19 00-0038)		
07 71 19 00-0048	LF		4" To 6" Face Height, 0.050" Thick, Clear Anodized Finish, Aluminum Gravel Stop	53.04	2.00
			<i>For Up To 25 LF, Add</i>	7.65	
			<i>For >25 To 100 LF, Add</i>	3.82	
			<i>For >1,000 LF, Deduct</i>	-0.59	
07 71 19 00-0049	LF		>6" To 10" Face Height, 0.050" Thick, Clear Anodized Finish, Aluminum Gravel Stop	54.65	2.35
			<i>For Up To 25 LF, Add</i>	8.23	
			<i>For >25 To 100 LF, Add</i>	4.12	
			<i>For >1,000 LF, Deduct</i>	-0.69	
07 71 19 00-0050	LF		>10" To 18" Face Height, 0.050" Thick, Clear Anodized Finish, Aluminum Gravel Stop	56.00	2.58
			<i>For Up To 25 LF, Add</i>	8.74	
			<i>For >25 To 100 LF, Add</i>	4.37	
			<i>For >1,000 LF, Deduct</i>	-0.79	
07 71 19 00-0051			0.063" Thick, Clear Anodized Finish, Aluminum Gravel Stop (07 71 19 00-0038)		
07 71 19 00-0052	LF		4" To 6" Face Height, 0.063" Thick, Clear Anodized Finish, Aluminum Gravel Stop	55.61	2.00
			<i>For Up To 25 LF, Add</i>	7.91	
			<i>For >25 To 100 LF, Add</i>	3.95	
			<i>For >1,000 LF, Deduct</i>	-0.59	
07 71 19 00-0053	LF		>6" To 10" Face Height, 0.063" Thick, Clear Anodized Finish, Aluminum Gravel Stop	57.32	2.35
			<i>For Up To 25 LF, Add</i>	8.50	
			<i>For >25 To 100 LF, Add</i>	4.25	
			<i>For >1,000 LF, Deduct</i>	-0.69	
07 71 19 00-0054	LF		>10" To 18" Face Height, 0.063" Thick, Clear Anodized Finish, Aluminum Gravel Stop	58.77	2.58
			<i>For Up To 25 LF, Add</i>	9.02	
			<i>For >25 To 100 LF, Add</i>	4.51	
			<i>For >1,000 LF, Deduct</i>	-0.79	



	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 19 00-0055		Aluminum Gravel Stop System With Continuous Cleat <small>(07 71 19 00-0002)</small> Note: Includes matching joint splice plate, galvanized steel cleats and stainless steel fasteners.		
07 71 19 00-0056		KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat <small>(07 71 19 00-0055)</small>		
07 71 19 00-0057		0.032" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat <small>(07 71 19 00-0056)</small>		
07 71 19 00-0058	LF	4" To 6" Face Height, 0.032" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat	43.82	2.11
		<i>For Up To 25 LF, Add</i>	6.96	
		<i>For >25 To 100 LF, Add</i>	3.48	
		<i>For >1,000 LF, Deduct</i>	-0.65	
07 71 19 00-0059	LF	>6" To 10" Face Height, 0.032" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat	46.60	2.52
		<i>For Up To 25 LF, Add</i>	7.71	
		<i>For >25 To 100 LF, Add</i>	3.85	
		<i>For >1,000 LF, Deduct</i>	-0.76	
07 71 19 00-0060	LF	>10" To 18" Face Height, 0.032" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat	49.77	2.87
		<i>For Up To 25 LF, Add</i>	8.45	
		<i>For >25 To 100 LF, Add</i>	4.22	
		<i>For >1,000 LF, Deduct</i>	-0.87	
07 71 19 00-0061		0.040" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat <small>(07 71 19 00-0056)</small>		
07 71 19 00-0062	LF	4" To 6" Face Height, 0.040" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat	46.25	2.11
		<i>For Up To 25 LF, Add</i>	7.21	
		<i>For >25 To 100 LF, Add</i>	3.60	
		<i>For >1,000 LF, Deduct</i>	-0.65	
07 71 19 00-0063	LF	>6" To 10" Face Height, 0.040" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat	49.13	2.52
		<i>For Up To 25 LF, Add</i>	7.96	
		<i>For >25 To 100 LF, Add</i>	3.98	
		<i>For >1,000 LF, Deduct</i>	-0.76	
07 71 19 00-0064	LF	>10" To 18" Face Height, 0.040" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat	52.44	2.87
		<i>For Up To 25 LF, Add</i>	8.71	
		<i>For >25 To 100 LF, Add</i>	4.36	
		<i>For >1,000 LF, Deduct</i>	-0.87	
07 71 19 00-0065		0.050" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat <small>(07 71 19 00-0056)</small>		
07 71 19 00-0066	LF	4" To 6" Face Height, 0.050" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat	49.41	2.11
		<i>For Up To 25 LF, Add</i>	7.52	
		<i>For >25 To 100 LF, Add</i>	3.76	
		<i>For >1,000 LF, Deduct</i>	-0.65	
07 71 19 00-0067	LF	>6" To 10" Face Height, 0.050" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat	52.16	2.52
		<i>For Up To 25 LF, Add</i>	8.26	
		<i>For >25 To 100 LF, Add</i>	4.13	
		<i>For >1,000 LF, Deduct</i>	-0.76	
07 71 19 00-0068	LF	>10" To 18" Face Height, 0.050" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat	55.81	2.87
		<i>For Up To 25 LF, Add</i>	9.05	
		<i>For >25 To 100 LF, Add</i>	4.52	
		<i>For >1,000 LF, Deduct</i>	-0.87	
07 71 19 00-0069		0.063" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat <small>(07 71 19 00-0056)</small>		
07 71 19 00-0070	LF	4" To 6" Face Height, 0.063" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat	51.56	2.11
		<i>For Up To 25 LF, Add</i>	7.74	
		<i>For >25 To 100 LF, Add</i>	3.87	
		<i>For >1,000 LF, Deduct</i>	-0.65	
07 71 19 00-0071	LF	>6" To 10" Face Height, 0.063" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat	54.39	2.52
		<i>For Up To 25 LF, Add</i>	8.49	
		<i>For >25 To 100 LF, Add</i>	4.24	
		<i>For >1,000 LF, Deduct</i>	-0.76	
07 71 19 00-0072	LF	>10" To 18" Face Height, 0.063" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat	58.16	2.87
		<i>For Up To 25 LF, Add</i>	9.28	
		<i>For >25 To 100 LF, Add</i>	4.64	
		<i>For >1,000 LF, Deduct</i>	-0.87	
07 71 19 00-0073		Mill Finish, Aluminum Gravel Stop System With Continuous Cleat <small>(07 71 19 00-0055)</small>		
07 71 19 00-0074		0.032" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat <small>(07 71 19 00-0073)</small>		

07	Thermal And Moisture Protection
07 70	Roof and Wall Specialties and Accessories
07 71	Roof Specialties



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 19 00-0075	LF		4" To 6" Face Height, 0.032" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat.....	32.22	2.11
			<i>For Up To 25 LF, Add</i>	5.80	
			<i>For >25 To 100 LF, Add</i>	2.90	
			<i>For >1,000 LF, Deduct</i>	-0.65	
07 71 19 00-0076	LF		>6" To 10" Face Height, 0.032" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat.....	34.50	2.52
			<i>For Up To 25 LF, Add</i>	6.50	
			<i>For >25 To 100 LF, Add</i>	3.25	
			<i>For >1,000 LF, Deduct</i>	-0.76	
07 71 19 00-0077	LF		>10" To 18" Face Height, 0.032" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat.....	37.12	2.87
			<i>For Up To 25 LF, Add</i>	7.18	
			<i>For >25 To 100 LF, Add</i>	3.59	
			<i>For >1,000 LF, Deduct</i>	-0.87	
07 71 19 00-0078			0.040" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat <small>(07 71 19 00-0073)</small>		
07 71 19 00-0079	LF		4" To 6" Face Height, 0.040" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat.....	33.90	2.11
			<i>For Up To 25 LF, Add</i>	5.97	
			<i>For >25 To 100 LF, Add</i>	2.99	
			<i>For >1,000 LF, Deduct</i>	-0.65	
07 71 19 00-0080	LF		>6" To 10" Face Height, 0.040" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat.....	36.25	2.52
			<i>For Up To 25 LF, Add</i>	6.67	
			<i>For >25 To 100 LF, Add</i>	3.34	
			<i>For >1,000 LF, Deduct</i>	-0.76	
07 71 19 00-0081	LF		>10" To 18" Face Height, 0.040" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat.....	38.97	2.87
			<i>For Up To 25 LF, Add</i>	7.37	
			<i>For >25 To 100 LF, Add</i>	3.68	
			<i>For >1,000 LF, Deduct</i>	-0.87	
07 71 19 00-0082			0.050" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat <small>(07 71 19 00-0073)</small>		
07 71 19 00-0083	LF		4" To 6" Face Height, 0.050" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat.....	36.08	2.11
			<i>For Up To 25 LF, Add</i>	6.19	
			<i>For >25 To 100 LF, Add</i>	3.09	
			<i>For >1,000 LF, Deduct</i>	-0.65	
07 71 19 00-0084	LF		>6" To 10" Face Height, 0.050" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat.....	38.34	2.52
			<i>For Up To 25 LF, Add</i>	6.88	
			<i>For >25 To 100 LF, Add</i>	3.44	
			<i>For >1,000 LF, Deduct</i>	-0.76	
07 71 19 00-0085	LF		>10" To 18" Face Height, 0.050" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat.....	41.16	2.87
			<i>For Up To 25 LF, Add</i>	7.58	
			<i>For >25 To 100 LF, Add</i>	3.79	
			<i>For >1,000 LF, Deduct</i>	-0.87	
07 71 19 00-0086			0.063" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat <small>(07 71 19 00-0073)</small>		
07 71 19 00-0087	LF		4" To 6" Face Height, 0.063" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat.....	37.56	2.11
			<i>For Up To 25 LF, Add</i>	6.34	
			<i>For >25 To 100 LF, Add</i>	3.17	
			<i>For >1,000 LF, Deduct</i>	-0.65	
07 71 19 00-0088	LF		>6" To 10" Face Height, 0.063" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat.....	39.88	2.52
			<i>For Up To 25 LF, Add</i>	7.04	
			<i>For >25 To 100 LF, Add</i>	3.52	
			<i>For >1,000 LF, Deduct</i>	-0.76	
07 71 19 00-0089	LF		>10" To 18" Face Height, 0.063" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat.....	42.78	2.87
			<i>For Up To 25 LF, Add</i>	7.75	
			<i>For >25 To 100 LF, Add</i>	3.87	
			<i>For >1,000 LF, Deduct</i>	-0.87	
07 71 19 00-0090			Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat <small>(07 71 19 00-0095)</small>		
07 71 19 00-0091			0.032" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat <small>(07 71 19 00-0090)</small>		
07 71 19 00-0092	LF		4" To 6" Face Height, 0.032" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat.....	51.29	2.11
			<i>For Up To 25 LF, Add</i>	7.71	
			<i>For >25 To 100 LF, Add</i>	3.85	
			<i>For >1,000 LF, Deduct</i>	-0.65	
07 71 19 00-0093	LF		>6" To 10" Face Height, 0.032" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat.....	54.40	2.52
			<i>For Up To 25 LF, Add</i>	8.49	
			<i>For >25 To 100 LF, Add</i>	4.24	
			<i>For >1,000 LF, Deduct</i>	-0.76	
07 71 19 00-0094	LF		>10" To 18" Face Height, 0.032" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat.....	57.67	2.87
			<i>For Up To 25 LF, Add</i>	9.24	
			<i>For >25 To 100 LF, Add</i>	4.62	
			<i>For >1,000 LF, Deduct</i>	-0.87	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 19 00-0095 0.040" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat <small>(07 71 19 00-0090)</small>		
07 71 19 00-0096 LF 4" To 6" Face Height, 0.040" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat.....	54.20	2.11
For Up To 25 LF, Add	8.00	
For >25 To 100 LF, Add	4.00	
For >1,000 LF, Deduct	-0.65	
07 71 19 00-0097 LF >6" To 10" Face Height, 0.040" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat.....	57.44	2.52
For Up To 25 LF, Add	8.79	
For >25 To 100 LF, Add	4.40	
For >1,000 LF, Deduct	-0.76	
07 71 19 00-0098 LF >10" To 18" Face Height, 0.040" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat.....	60.86	2.87
For Up To 25 LF, Add	9.55	
For >25 To 100 LF, Add	4.78	
For >1,000 LF, Deduct	-0.87	
07 71 19 00-0099 0.050" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat <small>(07 71 19 00-0090)</small>		
07 71 19 00-0100 LF 4" To 6" Face Height, 0.050" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat.....	58.00	2.11
For Up To 25 LF, Add	8.38	
For >25 To 100 LF, Add	4.19	
For >1,000 LF, Deduct	-0.65	
07 71 19 00-0101 LF >6" To 10" Face Height, 0.050" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat.....	61.07	2.52
For Up To 25 LF, Add	9.16	
For >25 To 100 LF, Add	4.58	
For >1,000 LF, Deduct	-0.76	
07 71 19 00-0102 LF >10" To 18" Face Height, 0.050" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat.....	64.22	2.87
For Up To 25 LF, Add	9.89	
For >25 To 100 LF, Add	4.95	
For >1,000 LF, Deduct	-0.87	
07 71 19 00-0103 0.063" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat <small>(07 71 19 00-0090)</small>		
07 71 19 00-0104 LF 4" To 6" Face Height, 0.063" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat.....	60.58	2.11
For Up To 25 LF, Add	8.64	
For >25 To 100 LF, Add	4.32	
For >1,000 LF, Deduct	-0.65	
07 71 19 00-0105 LF >6" To 10" Face Height, 0.063" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat.....	63.74	2.52
For Up To 25 LF, Add	9.42	
For >25 To 100 LF, Add	4.71	
For >1,000 LF, Deduct	-0.76	
07 71 19 00-0106 LF >10" To 18" Face Height, 0.063" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat.....	67.00	2.87
For Up To 25 LF, Add	10.17	
For >25 To 100 LF, Add	5.08	
For >1,000 LF, Deduct	-0.87	
07 71 19 00-0107 Stainless Steel Gravel Stop <small>(07 71 19 00-0001)</small>		
07 71 19 00-0108 Stainless Steel Gravel Stop <small>(07 71 19 00-0107)</small>		
07 71 19 00-0109 26 Gauge, Stainless Steel Gravel Stop <small>(07 71 19 00-0108)</small>		
07 71 19 00-0110 LF 4" To 6" Face Height, 26 Gauge, Stainless Steel Gravel Stop.....	37.25	2.00
For Up To 25 LF, Add	6.07	
For >25 To 100 LF, Add	3.03	
For >1,000 LF, Deduct	-0.59	
07 71 19 00-0111 LF >6" To 10" Face Height, 26 Gauge, Stainless Steel Gravel Stop	48.93	2.35
For Up To 25 LF, Add	7.66	
For >25 To 100 LF, Add	3.83	
For >1,000 LF, Deduct	-0.69	
07 71 19 00-0112 LF >10" To 18" Face Height, 26 Gauge, Stainless Steel Gravel Stop	72.52	2.58
For Up To 25 LF, Add	10.39	
For >25 To 100 LF, Add	5.20	
For >1,000 LF, Deduct	-0.79	
07 71 19 00-0113 24 Gauge, Stainless Steel Gravel Stop <small>(07 71 19 00-0108)</small>		
07 71 19 00-0114 LF 4" To 6" Face Height, 24 Gauge, Stainless Steel Gravel Stop.....	46.35	2.00
For Up To 25 LF, Add	6.98	
For >25 To 100 LF, Add	3.49	
For >1,000 LF, Deduct	-0.59	
07 71 19 00-0115 LF >6" To 10" Face Height, 24 Gauge, Stainless Steel Gravel Stop	61.07	2.35
For Up To 25 LF, Add	8.88	
For >25 To 100 LF, Add	4.44	
For >1,000 LF, Deduct	-0.69	

07	Thermal And Moisture Protection
07 70	Roof and Wall Specialties and Accessories
07 71	Roof Specialties



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 19 00-0116 LF >10" To 18" Face Height, 24 Gauge, Stainless Steel Gravel Stop.....	90.73	2.58
For Up To 25 LF, Add	12.21	
For >25 To 100 LF, Add	6.11	
For >1,000 LF, Deduct	-0.79	
07 71 19 00-0117 22 Gauge, Stainless Steel Gravel Stop (07 71 19 00-0108)		
07 71 19 00-0118 LF 4" To 6" Face Height, 22 Gauge, Stainless Steel Gravel Stop.....	56.03	2.00
For Up To 25 LF, Add	7.95	
For >25 To 100 LF, Add	3.97	
For >1,000 LF, Deduct	-0.59	
07 71 19 00-0119 LF >6" To 10" Face Height, 22 Gauge, Stainless Steel Gravel Stop.....	73.97	2.35
For Up To 25 LF, Add	10.17	
For >25 To 100 LF, Add	5.08	
For >1,000 LF, Deduct	-0.69	
07 71 19 00-0120 LF >10" To 18" Face Height, 22 Gauge, Stainless Steel Gravel Stop.....	110.08	2.58
For Up To 25 LF, Add	14.15	
For >25 To 100 LF, Add	7.07	
For >1,000 LF, Deduct	-0.79	
07 71 19 00-0121 Stainless Steel Gravel Stop System With Continuous Cleat (07 71 19 00-0107)		
Note: Includes matching joint splice plate, galvanized steel cleats and stainless steel fasteners.		
07 71 19 00-0122 26 Gauge, Stainless Steel Gravel Stop System With Continuous Cleat (07 71 19 00-0121)		
07 71 19 00-0123 LF 4" To 6" Face Height, 26 Gauge, Stainless Steel Gravel Stop System With Continuous Cleat	44.00	2.11
For Up To 25 LF, Add	6.98	
For >25 To 100 LF, Add	3.49	
For >1,000 LF, Deduct	-0.65	
07 71 19 00-0124 LF >6" To 10" Face Height, 26 Gauge, Stainless Steel Gravel Stop System With Continuous Cleat	57.69	2.52
For Up To 25 LF, Add	8.82	
For >25 To 100 LF, Add	4.41	
For >1,000 LF, Deduct	-0.76	
07 71 19 00-0125 LF >10" To 18" Face Height, 26 Gauge, Stainless Steel Gravel Stop System With Continuous Cleat	83.78	2.87
For Up To 25 LF, Add	11.85	
For >25 To 100 LF, Add	5.92	
For >1,000 LF, Deduct	-0.87	
07 71 19 00-0126 24 Gauge, Stainless Steel Gravel Stop System With Continuous Cleat (07 71 19 00-0121)		
07 71 19 00-0127 LF 4" To 6" Face Height, 24 Gauge, Stainless Steel Gravel Stop System With Continuous Cleat	53.11	2.11
For Up To 25 LF, Add	7.89	
For >25 To 100 LF, Add	3.95	
For >1,000 LF, Deduct	-0.65	
07 71 19 00-0128 LF >6" To 10" Face Height, 24 Gauge, Stainless Steel Gravel Stop System With Continuous Cleat	69.83	2.52
For Up To 25 LF, Add	10.03	
For >25 To 100 LF, Add	5.02	
For >1,000 LF, Deduct	-0.76	
07 71 19 00-0129 LF >10" To 18" Face Height, 24 Gauge, Stainless Steel Gravel Stop System With Continuous Cleat	101.98	2.87
For Up To 25 LF, Add	13.67	
For >25 To 100 LF, Add	6.83	
For >1,000 LF, Deduct	-0.87	
07 71 19 00-0130 22 Gauge, Stainless Steel Gravel Stop System With Continuous Cleat (07 71 19 00-0121)		
07 71 19 00-0131 LF 4" To 6" Face Height, 22 Gauge, Stainless Steel Gravel Stop System With Continuous Cleat	62.78	2.11
For Up To 25 LF, Add	8.86	
For >25 To 100 LF, Add	4.43	
For >1,000 LF, Deduct	-0.65	
07 71 19 00-0132 LF >6" To 10" Face Height, 22 Gauge, Stainless Steel Gravel Stop System With Continuous Cleat	82.73	2.52
For Up To 25 LF, Add	11.32	
For >25 To 100 LF, Add	5.66	
For >1,000 LF, Deduct	-0.76	
07 71 19 00-0133 LF >10" To 18" Face Height, 22 Gauge, Stainless Steel Gravel Stop System With Continuous Cleat	121.33	2.87
For Up To 25 LF, Add	15.60	
For >25 To 100 LF, Add	7.80	
For >1,000 LF, Deduct	-0.87	
07 71 19 00-0134 Galvanized Steel Gravel Stop (07 71 19 00-0001)		
07 71 19 00-0135 Galvanized Steel Gravel Stop (07 71 19 00-0134)		
07 71 19 00-0136 KYNAR 500® Finish, Galvanized Steel Gravel Stop (07 71 19 00-0135)		
07 71 19 00-0137 24 Gauge, KYNAR 500® Finish, Galvanized Steel Gravel Stop (07 71 19 00-0136)		
07 71 19 00-0138 LF 4" To 6" Face Height, 24 Gauge, KYNAR 500® Finish, Galvanized Steel Gravel Stop.....	35.65	2.00
For Up To 25 LF, Add	5.91	
For >25 To 100 LF, Add	2.95	
For >1,000 LF, Deduct	-0.59	
07 71 19 00-0139 LF >6" To 10" Face Height, 24 Gauge, KYNAR 500® Finish, Galvanized Steel Gravel Stop.....	36.92	2.35
For Up To 25 LF, Add	6.46	
For >25 To 100 LF, Add	3.23	
For >1,000 LF, Deduct	-0.69	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 19 00-0140 LF >10" To 18" Face Height, 24 Gauge, KYNAR 500® Finish, Galvanized Steel Gravel Stop..... <i>For Up To 25 LF, Add</i> <i>For >25 To 100 LF, Add</i> <i>For >1,000 LF, Deduct</i>	38.44 6.98 3.49 -0.79	2.58
07 71 19 00-0141 Galvanized Steel Gravel Stop System With Continuous Cleat (07 71 19 00-0134) Note: Includes matching joint splice plate, galvanized steel cleats and stainless steel fasteners.		
07 71 19 00-0142 KYNAR 500® Finish, Galvanized Steel Gravel Stop System With Continuous Cleat (07 71 19 00-0141)		
07 71 19 00-0143 24 Gauge, KYNAR 500® Finish, Galvanized Steel Gravel Stop System With Continuous Cleat (07 71 19 00-0142)		
07 71 19 00-0144 LF 4" To 6" Face Height, 24 Gauge, KYNAR 500® Finish, Galvanized Steel Gravel Stop System With Continuous Cleat..... <i>For Up To 25 LF, Add</i> <i>For >25 To 100 LF, Add</i> <i>For >1,000 LF, Deduct</i>	40.76 6.66 3.33 -0.65	2.11
07 71 19 00-0145 LF >6" To 10" Face Height, 24 Gauge, KYNAR 500® Finish, Galvanized Steel Gravel Stop System With Continuous Cleat..... <i>For Up To 25 LF, Add</i> <i>For >25 To 100 LF, Add</i> <i>For >1,000 LF, Deduct</i>	43.53 7.40 3.70 -0.76	2.52
07 71 19 00-0146 LF >10" To 18" Face Height, 24 Gauge, KYNAR 500® Finish, Galvanized Steel Gravel Stop System With Continuous Cleat..... <i>For Up To 25 LF, Add</i> <i>For >25 To 100 LF, Add</i> <i>For >1,000 LF, Deduct</i>	46.91 8.16 4.08 -0.87	2.87
07 71 19 00-0147 Copper Gravel Stop (07 71 19 00-0001)		
07 71 19 00-0148 Copper Gravel Stop (07 71 19 00-0147)		
07 71 19 00-0149 20 Ounce, Copper Gravel Stop (07 71 19 00-0148)		
07 71 19 00-0150 LF 4" To 6" Face Height, 20 Ounce, Copper Gravel Stop..... <i>For Up To 25 LF, Add</i> <i>For >25 To 100 LF, Add</i> <i>For >1,000 LF, Deduct</i>	59.57 8.30 4.15 -0.59	2.00
07 71 19 00-0151 LF >6" To 10" Face Height, 20 Ounce, Copper Gravel Stop..... <i>For Up To 25 LF, Add</i> <i>For >25 To 100 LF, Add</i> <i>For >1,000 LF, Deduct</i>	68.22 9.59 4.80 -0.69	2.35
07 71 19 00-0152 LF >10" To 18" Face Height, 20 Ounce, Copper Gravel Stop..... <i>For Up To 25 LF, Add</i> <i>For >25 To 100 LF, Add</i> <i>For >1,000 LF, Deduct</i>	78.80 11.02 5.51 -0.79	2.58
07 71 19 00-0153 16 Ounce, Copper Gravel Stop (07 71 19 00-0148)		
07 71 19 00-0154 LF 4" To 6" Face Height, 16 Ounce, Copper Gravel Stop..... <i>For Up To 25 LF, Add</i> <i>For >25 To 100 LF, Add</i> <i>For >1,000 LF, Deduct</i>	72.31 9.58 4.79 -0.59	2.00
07 71 19 00-0155 LF >6" To 10" Face Height, 16 Ounce, Copper Gravel Stop..... <i>For Up To 25 LF, Add</i> <i>For >25 To 100 LF, Add</i> <i>For >1,000 LF, Deduct</i>	83.79 11.15 5.57 -0.69	2.35
07 71 19 00-0156 LF >10" To 18" Face Height, 16 Ounce, Copper Gravel Stop..... <i>For Up To 25 LF, Add</i> <i>For >25 To 100 LF, Add</i> <i>For >1,000 LF, Deduct</i>	95.79 12.72 6.36 -0.79	2.58
07 71 19 00-0157 Copper Gravel Stop System With Continuous Cleat (07 71 19 00-0147) Note: Includes matching joint splice plate, galvanized steel cleats and stainless steel fasteners.		
07 71 19 00-0158 20 Ounce, Copper Gravel Stop System With Continuous Cleat (07 71 19 00-0157)		
07 71 19 00-0159 LF 4" To 6" Face Height, 20 Ounce, Copper Gravel Stop System With Continuous Cleat..... <i>For Up To 25 LF, Add</i> <i>For >25 To 100 LF, Add</i> <i>For >1,000 LF, Deduct</i>	62.00 8.78 4.39 -0.65	2.11
07 71 19 00-0160 LF >6" To 10" Face Height, 20 Ounce, Copper Gravel Stop System With Continuous Cleat..... <i>For Up To 25 LF, Add</i> <i>For >25 To 100 LF, Add</i> <i>For >1,000 LF, Deduct</i>	71.33 10.18 5.09 -0.76	2.52
07 71 19 00-0161 LF >10" To 18" Face Height, 20 Ounce, Copper Gravel Stop System With Continuous Cleat..... <i>For Up To 25 LF, Add</i> <i>For >25 To 100 LF, Add</i> <i>For >1,000 LF, Deduct</i>	82.74 11.74 5.87 -0.87	2.87
07 71 19 00-0162 16 Ounce, Copper Gravel Stop System With Continuous Cleat (07 71 19 00-0157)		

07	Thermal And Moisture Protection
07 70	Roof and Wall Specialties and Accessories
07 71	Roof Specialties



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 19 00-0163 LF 4" To 6" Face Height, 16 Ounce, Copper Gravel Stop System With Continuous Cleat	74.74	2.11
For Up To 25 LF, Add	10.05	
For >25 To 100 LF, Add	5.03	
For >1,000 LF, Deduct	-0.65	
07 71 19 00-0164 LF >6" To 10" Face Height, 16 Ounce, Copper Gravel Stop System With Continuous Cleat	86.90	2.52
For Up To 25 LF, Add	11.74	
For >25 To 100 LF, Add	5.87	
For >1,000 LF, Deduct	-0.76	
07 71 19 00-0165 LF >10" To 18" Face Height, 16 Ounce, Copper Gravel Stop System With Continuous Cleat	99.73	2.87
For Up To 25 LF, Add	13.44	
For >25 To 100 LF, Add	6.72	
For >1,000 LF, Deduct	-0.87	
07 71 19 00-0166 Fascia (07 71 19)		
07 71 19 00-0167 Snap-On Cover Fascia (07 71 19 00-0166)		
Note: Includes matching joint splice plate, galvanized steel cleats and stainless steel fasteners.		
07 71 19 00-0168 Galvanized Steel Snap-On Cover Fascia (07 71 19 00-0167)		
07 71 19 00-0169 KYNAR 500® Finish, Galvanized Steel Snap-On Cover Fascia (07 71 19 00-0168)		
07 71 19 00-0170 24 Gauge, KYNAR 500® Finish, Galvanized Steel Snap-On Cover Fascia (07 71 19 00-0169)		
07 71 19 00-0171 LF 3" To 5" Face Height, 24 Gauge, KYNAR 500® Finish, Galvanized Steel Snap-On Cover Fascia System With Continuous Cleat	43.56	2.93
For Up To 25 LF, Add	6.70	
For >25 To 100 LF, Add	3.35	
For >1,000 LF, Deduct	-0.59	
07 71 19 00-0172 LF >5" To 7" Face Height, 24 Gauge, KYNAR 500® Finish, Galvanized Steel Snap-On Cover Fascia System With Continuous Cleat	48.99	3.05
For Up To 25 LF, Add	7.34	
For >25 To 100 LF, Add	3.67	
For >1,000 LF, Deduct	-0.61	
07 71 19 00-0173 LF >7" To 9" Face Height, 24 Gauge, KYNAR 500® Finish, Galvanized Steel Snap-On Cover Fascia System With Continuous Cleat	52.48	3.16
For Up To 25 LF, Add	7.78	
For >25 To 100 LF, Add	3.89	
For >1,000 LF, Deduct	-0.63	
07 71 19 00-0174 Accessories For KYNAR 500® Finish, Galvanized Steel Snap-On Cover Fascia Systems (07 71 19 00-0169)		
07 71 19 00-0175 Fascia Sumps For KYNAR 500® Finish, Galvanized Steel Snap-On Cover Fascia Systems (07 71 19 00-0174)		
07 71 19 00-0176 EA Fascia Sump For 3" To 5" Face Height, KYNAR 500® Finish, Galvanized Steel Snap-On Cover Fascia Systems	302.78	4.11
07 71 19 00-0177 EA Fascia Sump For >5" To 7" Face Height, KYNAR 500® Finish, Galvanized Steel Snap-On Cover Fascia Systems	323.39	4.11
07 71 19 00-0178 EA Fascia Sump For >7" To 9" Face Height, KYNAR 500® Finish, Galvanized Steel Snap-On Cover Fascia Systems	336.33	4.11
07 71 19 00-0179 Fascia Spillout Scuppers For KYNAR 500® Finish, Galvanized Steel Snap-On Cover Fascia Systems (07 71 19 00-0174)		
07 71 19 00-0180 EA Fascia Spillout Scupper For 3" To 5" Face Height, KYNAR 500® Finish, Galvanized Steel Snap-On Cover Fascia Systems	246.66	4.11
07 71 19 00-0181 EA Fascia Spillout Scupper For >5" To 7" Face Height, KYNAR 500® Finish, Galvanized Steel Snap-On Cover Fascia Systems	257.06	4.11
07 71 19 00-0182 EA Fascia Spillout Scupper For >7" To 9" Face Height, KYNAR 500® Finish, Galvanized Steel Snap-On Cover Fascia Systems	263.40	4.11
07 71 19 00-0183 Aluminum Snap-On Cover Fascia (07 71 19 00-0167)		
07 71 19 00-0184 KYNAR 500® Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat (07 71 19 00-0183)		
07 71 19 00-0185 0.040" Thick, KYNAR 500® Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat (07 71 19 00-0184)		
07 71 19 00-0186 LF 3" To 5" Face Height, 0.040" Thick, KYNAR 500® Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat	24.07	2.93
For Up To 25 LF, Add	4.75	
For >25 To 100 LF, Add	2.38	
For >1,000 LF, Deduct	-0.59	
07 71 19 00-0187 LF >5" To 7" Face Height, 0.040" Thick, KYNAR 500® Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat	27.17	3.05
For Up To 25 LF, Add	5.15	
For >25 To 100 LF, Add	2.58	
For >1,000 LF, Deduct	-0.61	
07 71 19 00-0188 LF >7" To 9" Face Height, 0.040" Thick, KYNAR 500® Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat	28.83	3.16
For Up To 25 LF, Add	5.42	
For >25 To 100 LF, Add	2.71	
For >1,000 LF, Deduct	-0.63	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 19 00-0189 0.050" Thick, KYNAR 500® Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat <small>(07 71 19 00-0184)</small>		
07 71 19 00-0190 LF 3" To 5" Face Height, 0.050" Thick, KYNAR 500® Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat.....	25.26	2.93
<i>For Up To 25 LF, Add</i>	4.87	
<i>For >25 To 100 LF, Add</i>	2.44	
<i>For >1,000 LF, Deduct</i>	-0.59	
07 71 19 00-0191 LF >5" To 7" Face Height, 0.050" Thick, KYNAR 500® Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat.....	28.70	3.05
<i>For Up To 25 LF, Add</i>	5.31	
<i>For >25 To 100 LF, Add</i>	2.65	
<i>For >1,000 LF, Deduct</i>	-0.61	
07 71 19 00-0192 LF >7" To 9" Face Height, 0.050" Thick, KYNAR 500® Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat.....	30.55	3.16
<i>For Up To 25 LF, Add</i>	5.59	
<i>For >25 To 100 LF, Add</i>	2.80	
<i>For >1,000 LF, Deduct</i>	-0.63	
07 71 19 00-0193 Accessories For KYNAR 500® Finish, Aluminum Snap-On Cover Fascia Systems <small>(07 71 19 00-0184)</small>		
07 71 19 00-0194 Fascia Sumps For KYNAR 500® Finish, Aluminum Snap-On Cover Fascia Systems <small>(07 71 19 00-0193)</small>		
07 71 19 00-0195 EA Fascia Sump For 3" To 5" Face Height, KYNAR 500® Finish, Aluminum Snap-On Cover Fascia Systems.....	153.08	4.11
07 71 19 00-0196 EA Fascia Sump For >5" To 7" Face Height, KYNAR 500® Finish, Aluminum Snap-On Cover Fascia Systems.....	165.95	4.11
07 71 19 00-0197 EA Fascia Sump For >7" To 9" Face Height, KYNAR 500® Finish, Aluminum Snap-On Cover Fascia Systems.....	171.58	4.11
07 71 19 00-0198 Fascia Spillout Scuppers For KYNAR 500® Finish, Aluminum Snap-On Cover Fascia Systems <small>(07 71 19 00-0193)</small>		
07 71 19 00-0199 EA Fascia Spillout Scupper For 3" To 5" Face Height, KYNAR 500® Finish, Aluminum Snap-On Cover Fascia Systems.....	121.36	4.11
07 71 19 00-0200 EA Fascia Spillout Scupper For >5" To 7" Face Height, KYNAR 500® Finish, Aluminum Snap-On Cover Fascia Systems.....	127.77	4.11
07 71 19 00-0201 EA Fascia Spillout Scupper For >7" To 9" Face Height, KYNAR 500® Finish, Aluminum Snap-On Cover Fascia Systems.....	130.58	4.11
07 71 19 00-0202 Clear Anodized Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat <small>(07 71 19 00-0183)</small>		
07 71 19 00-0203 0.040" Thick, Clear Anodized Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat <small>(07 71 19 00-0202)</small>		
07 71 19 00-0204 LF 3" To 5" Face Height, 0.040" Thick, Clear Anodized Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat.....	27.71	2.93
<i>For Up To 25 LF, Add</i>	5.12	
<i>For >25 To 100 LF, Add</i>	2.56	
<i>For >1,000 LF, Deduct</i>	-0.59	
07 71 19 00-0205 LF >5" To 7" Face Height, 0.040" Thick, Clear Anodized Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat.....	31.38	3.05
<i>For Up To 25 LF, Add</i>	5.57	
<i>For >25 To 100 LF, Add</i>	2.79	
<i>For >1,000 LF, Deduct</i>	-0.61	
07 71 19 00-0206 LF >7" To 9" Face Height, 0.040" Thick, Clear Anodized Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat.....	33.33	3.16
<i>For Up To 25 LF, Add</i>	5.87	
<i>For >25 To 100 LF, Add</i>	2.93	
<i>For >1,000 LF, Deduct</i>	-0.63	
07 71 19 00-0207 0.050" Thick, Clear Anodized Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat <small>(07 71 19 00-0202)</small>		
07 71 19 00-0208 LF 3" To 5" Face Height, 0.050" Thick, Clear Anodized Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat.....	29.14	2.93
<i>For Up To 25 LF, Add</i>	5.26	
<i>For >25 To 100 LF, Add</i>	2.63	
<i>For >1,000 LF, Deduct</i>	-0.59	
07 71 19 00-0209 LF >5" To 7" Face Height, 0.050" Thick, Clear Anodized Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat.....	33.22	3.05
<i>For Up To 25 LF, Add</i>	5.76	
<i>For >25 To 100 LF, Add</i>	2.88	
<i>For >1,000 LF, Deduct</i>	-0.61	
07 71 19 00-0210 LF >7" To 9" Face Height, 0.050" Thick, Clear Anodized Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat.....	35.39	3.16
<i>For Up To 25 LF, Add</i>	6.08	
<i>For >25 To 100 LF, Add</i>	3.04	
<i>For >1,000 LF, Deduct</i>	-0.63	

07	Thermal And Moisture Protection
07 70	Roof and Wall Specialties and Accessories
07 71	Roof Specialties



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

07 71 19 00-0211	Accessories For Clear Anodized Finish, Aluminum Snap-On Cover Fascia Systems (07 71 19 00-0202)		
07 71 19 00-0212	Fascia Sumps For Clear Anodized Finish, Aluminum Snap-On Cover Fascia Systems (07 71 19 00-0211)		
07 71 19 00-0213	EA Fascia Sump For 3" To 5" Face Height, Clear Anodized Finish, Aluminum Snap-On Cover Fascia Systems.....	189.31	4.11
07 71 19 00-0214	EA Fascia Sump For >5" To 7" Face Height, Clear Anodized Finish, Aluminum Snap-On Cover Fascia Systems.....	205.39	4.11
07 71 19 00-0215	EA Fascia Sump For >7" To 9" Face Height, Clear Anodized Finish, Aluminum Snap-On Cover Fascia Systems.....	212.42	4.11
07 71 19 00-0216	Fascia Spillout Scuppers For Clear Anodized Finish, Aluminum Snap-On Cover Fascia Systems (07 71 19 00-0211)		
07 71 19 00-0217	EA Fascia Spillout Scupper For 3" To 5" Face Height, Clear Anodized Finish, Aluminum Snap-On Cover Fascia Systems.....	149.65	4.11
07 71 19 00-0218	EA Fascia Spillout Scupper For >5" To 7" Face Height, Clear Anodized Finish, Aluminum Snap-On Cover Fascia Systems.....	157.67	4.11
07 71 19 00-0219	EA Fascia Spillout Scupper For >7" To 9" Face Height, Clear Anodized Finish, Aluminum Snap-On Cover Fascia Systems.....	161.17	4.11
07 71 23	Manufactured Gutters and Downspouts (07 71)		
	Note: Includes all necessary support straps.		
07 71 23 00-0001	Aluminum Gutters And Downspouts (07 71 23)		
07 71 23 00-0002	Aluminum Gutters (07 71 23 00-0001)		
	Note: Includes drop outlets, hangers and fasteners. Excludes end caps, miters and downspouts.		
07 71 23 00-0003	K-Style Aluminum Gutters (07 71 23 00-0002)		
07 71 23 00-0004	LF 5", 0.027" Thick, K-Style Aluminum Gutter	12.39	5.68
	For Up To 100', Add	2.64	
	For >100' To 250', Add	1.09	
	For >1,000', Deduct	-0.94	
	For Kynar 500® Finish, Add	1.36	
07 71 23 00-0005	LF 6", 0.027" Thick, K-Style Aluminum Gutter	13.69	5.99
	For Up To 100', Add	2.84	
	For >100' To 250', Add	1.18	
	For >1,000', Deduct	-0.98	
	For Kynar 500® Finish, Add	1.74	
07 71 23 00-0006	LF 5", 0.032" Thick, K-Style Aluminum Gutter	12.83	5.68
	For Up To 100', Add	2.69	
	For >100' To 250', Add	1.11	
	For >1,000', Deduct	-0.94	
	For Kynar 500® Finish, Add	1.56	
07 71 23 00-0007	LF 6", 0.032" Thick, K-Style Aluminum Gutter	14.25	5.99
	For Up To 100', Add	2.90	
	For >100' To 250', Add	1.20	
	For >1,000', Deduct	-0.98	
	For Kynar 500® Finish, Add	1.99	
07 71 23 00-0008	LF 7", 0.032" Thick, K-Style Aluminum Gutter	24.86	6.29
	For Up To 100', Add	4.07	
	For >100' To 250', Add	1.77	
	For >1,000', Deduct	-1.06	
	For Kynar 500® Finish, Add	6.42	
07 71 23 00-0009	LF 8", 0.032" Thick, K-Style Aluminum Gutter	27.27	7.07
	For Up To 100', Add	4.48	
	For >100' To 250', Add	1.95	
	For >1,000', Deduct	-1.17	
	For Kynar 500® Finish, Add	7.02	
07 71 23 00-0010	LF 8", 0.040" Thick, K-Style Aluminum Gutter	30.28	7.07
	For Up To 100', Add	4.78	
	For >100' To 250', Add	2.10	
	For >1,000', Deduct	-1.17	
	For Kynar 500® Finish, Add	8.37	
07 71 23 00-0011	Half Round Aluminum Gutters (07 71 23 00-0002)		
07 71 23 00-0012	LF 5", 0.027" Thick, Half Round Aluminum Gutter	21.11	5.68
	For Up To 100', Add	3.52	
	For >100' To 250', Add	1.52	
	For >1,000', Deduct	-0.94	
	For Kynar 500® Finish, Add	5.28	
07 71 23 00-0013	LF 6", 0.032" Thick, Half Round Aluminum Gutter	25.12	5.99
	For Up To 100', Add	3.99	
	For >100' To 250', Add	1.75	
	For >1,000', Deduct	-0.98	
	For Kynar 500® Finish, Add	6.88	
07 71 23 00-0014	Box Style Aluminum Gutters (07 71 23 00-0002)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 23 00-0015 LF 6", 0.027" Thick, Box Style Aluminum Gutter..... <i>For Up To 100', Add</i> <i>For >100' To 250', Add</i> <i>For >1,000', Deduct</i> <i>For Kynar 500® Finish, Add</i>	22.57 4.01 1.71 -1.17 4.91	7.07
07 71 23 00-0016 LF 6", 0.032" Thick, Box Style Aluminum Gutter..... <i>For Up To 100', Add</i> <i>For >100' To 250', Add</i> <i>For >1,000', Deduct</i> <i>For Kynar 500® Finish, Add</i>	22.62 4.01 1.71 -1.17 4.93	7.07
07 71 23 00-0017 LF 7", 0.032" Thick, Box Style Aluminum Gutter..... <i>For Up To 100', Add</i> <i>For >100' To 250', Add</i> <i>For >1,000', Deduct</i> <i>For Kynar 500® Finish, Add</i>	26.09 4.48 1.93 -1.24 6.14	7.53
07 71 23 00-0018 LF 8", 0.032" Thick, Box Style Aluminum Gutter..... <i>For Up To 100', Add</i> <i>For >100' To 250', Add</i> <i>For >1,000', Deduct</i> <i>For Kynar 500® Finish, Add</i>	29.28 4.91 2.12 -1.32 7.23	7.99
07 71 23 00-0019 Aluminum Gutter End Caps (07 71 23 00-0001)		
07 71 23 00-0020 K-Style, Aluminum Gutter End Caps (07 71 23 00-0019)		
07 71 23 00-0021 EA 5", K-Style Aluminum Gutter End Cap..... <i>For Kynar 500® Finish, Add</i>	4.13 0.47	
07 71 23 00-0022 EA 6", K-Style Aluminum Gutter End Cap..... <i>For Kynar 500® Finish, Add</i>	4.98 0.86	
07 71 23 00-0023 EA 7", K-Style Aluminum Gutter End Cap..... <i>For Kynar 500® Finish, Add</i>	10.18 3.20	
07 71 23 00-0024 EA 8", K-Style Aluminum Gutter End Cap..... <i>For Kynar 500® Finish, Add</i>	11.77 3.91	
07 71 23 00-0025 Half Round, Aluminum Gutter End Caps (07 71 23 00-0019)		
07 71 23 00-0026 EA 5", Half Round Aluminum Gutter End Cap..... <i>For Kynar 500® Finish, Add</i>	6.31 1.45	
07 71 23 00-0027 EA 6", Half Round Aluminum Gutter End Cap..... <i>For Kynar 500® Finish, Add</i>	9.47 2.88	
07 71 23 00-0028 Box Style, Aluminum Gutter End Caps (07 71 23 00-0019)		
07 71 23 00-0029 EA 6", Box Style Aluminum Gutter End Cap..... <i>For Kynar 500® Finish, Add</i>	11.05 3.59	
07 71 23 00-0030 EA 7", Box Style Aluminum Gutter End Cap..... <i>For Kynar 500® Finish, Add</i>	11.96 4.00	
07 71 23 00-0031 EA 8", Box Style Aluminum Gutter End Cap..... <i>For Kynar 500® Finish, Add</i>	13.95 4.89	
07 71 23 00-0032 Aluminum Gutter Miters (07 71 23 00-0001) Note: Inside or outside miters.		
07 71 23 00-0033 K-Style, Aluminum Gutter Miters (07 71 23 00-0032)		
07 71 23 00-0034 EA 5", K-Style Aluminum Gutter Miter..... <i>For Kynar 500® Finish, Add</i>	23.82 3.74	
07 71 23 00-0035 EA 6", K-Style Aluminum Gutter Miter..... <i>For Kynar 500® Finish, Add</i>	30.97 6.47	
07 71 23 00-0036 EA 7", K-Style Aluminum Gutter Miter..... <i>For Kynar 500® Finish, Add</i>	86.88 31.15	
07 71 23 00-0037 EA 8", K-Style Aluminum Gutter Miter..... <i>For Kynar 500® Finish, Add</i>	94.25 33.91	
07 71 23 00-0038 Half Round, Aluminum Gutter Miters (07 71 23 00-0032)		
07 71 23 00-0039 EA 5", Half Round Aluminum Gutter Miter..... <i>For Kynar 500® Finish, Add</i>	39.07 10.60	
07 71 23 00-0040 EA 6", Half Round Aluminum Gutter Miter..... <i>For Kynar 500® Finish, Add</i>	59.98 19.53	
07 71 23 00-0041 Box Style, Aluminum Gutter Miters (07 71 23 00-0032)		
07 71 23 00-0042 EA 6", Box Style Aluminum Gutter Miter..... <i>For Kynar 500® Finish, Add</i>	70.83 24.41	
07 71 23 00-0043 EA 7", Box Style Aluminum Gutter Miter..... <i>For Kynar 500® Finish, Add</i>	104.19 38.94	
07 71 23 00-0044 EA 8", Box Style Aluminum Gutter Miter..... <i>For Kynar 500® Finish, Add</i>	113.09 42.39	
07 71 23 00-0045 Aluminum Gutter Wire Strainers (07 71 23 00-0001)		

07	Thermal And Moisture Protection
07 70	Roof and Wall Specialties and Accessories
07 71	Roof Specialties



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 23 00-0046 EA 3" Diameter, Round Aluminum Wire Strainer.....	17.20	3.84
For Kynar 500® Finish, Add	4.14	
For 0.024" Thick, Add	1.29	
For 0.027" Thick, Add	2.67	
For 0.031" Thick, Add	3.86	
07 71 23 00-0047 EA 4" Diameter, Round Aluminum Wire Strainer.....	24.95	3.84
For Kynar 500® Finish, Add	7.63	
For 0.024" Thick, Add	2.37	
For 0.027" Thick, Add	4.92	
For 0.031" Thick, Add	7.12	
07 71 23 00-0048 Aluminum Downspouts (07 71 23 00-0001)		
Note: Includes elbows, hangers and fasteners.		
07 71 23 00-0049 Round Aluminum Downspouts (07 71 23 00-0048)		
07 71 23 00-0050 LF 3" Diameter, 0.019" Thick, Round Aluminum Downspout.....	8.13	3.69
For Up To 100', Add	1.41	
For >100 To 250', Add	0.61	
For >1,000', Deduct	-0.40	
For Kynar 500® Finish, Add	1.86	
For 0.024" Thick, Add	0.58	
For 0.027" Thick, Add	1.20	
For 0.031" Thick, Add	1.74	
07 71 23 00-0051 LF 4" Diameter, 0.019" Thick, Round Aluminum Downspout.....	9.10	3.69
For Up To 100', Add	1.51	
For >100 To 250', Add	0.65	
For >1,000', Deduct	-0.40	
For Kynar 500® Finish, Add	2.30	
For 0.024" Thick, Add	0.72	
For 0.027" Thick, Add	1.48	
For 0.031" Thick, Add	2.15	
07 71 23 00-0052 Rectangular Aluminum Downspouts (07 71 23 00-0048)		
07 71 23 00-0053 LF 2" x 3", 0.019" Thick, Rectangular Aluminum Downspout.....	6.11	3.69
For Up To 100', Add	1.21	
For >100 To 250', Add	0.51	
For >1,000', Deduct	-0.40	
For Kynar 500® Finish, Add	0.95	
For 0.024" Thick, Add	0.30	
For 0.027" Thick, Add	0.61	
For 0.031" Thick, Add	0.89	
07 71 23 00-0054 LF 3" x 4", 0.019" Thick, Rectangular Aluminum Downspout.....	7.35	3.69
For Up To 100', Add	1.33	
For >100 To 250', Add	0.57	
For >1,000', Deduct	-0.40	
For Kynar 500® Finish, Add	1.51	
For 0.024" Thick, Add	0.47	
For 0.027" Thick, Add	0.97	
For 0.031" Thick, Add	1.41	
07 71 23 00-0055 LF 4" x 5", 0.019" Thick, Rectangular Aluminum Downspout.....	12.55	3.69
For Up To 100', Add	1.85	
For >100 To 250', Add	0.83	
For >1,000', Deduct	-0.40	
For Kynar 500® Finish, Add	3.85	
For 0.024" Thick, Add	1.20	
For 0.027" Thick, Add	2.48	
For 0.031" Thick, Add	3.60	
07 71 23 00-0056 Aluminum Devices (07 71 23 00-0001)		
07 71 23 00-0057 EA Thru-Wall Aluminum Scupper Outlet.....	257.74	26.37
For Kynar 500® Finish, Add	76.41	
07 71 23 00-0058 EA Aluminum Leader/Conductor Head.....	238.92	29.31
For Kynar 500® Finish, Add	81.14	
07 71 23 00-0059 Copper Gutters And Downspouts (07 71 23)		
07 71 23 00-0060 Copper Gutters (07 71 23 00-0059)		
Note: Includes drop outlets, hangers and fasteners. Excludes end caps, miters and downspouts.		
07 71 23 00-0061 K-Style Copper Gutters (07 71 23 00-0060)		
07 71 23 00-0062 LF 4", 16 Ounce, K-Style Copper Gutter.....	20.58	5.38
For Up To 100', Add	3.39	
For >100' To 250', Add	1.47	
For >1,000', Deduct	-0.89	
07 71 23 00-0063 LF 5", 16 Ounce, K-Style Copper Gutter.....	28.32	5.68
For Up To 100', Add	4.24	
For >100' To 250', Add	1.88	
For >1,000', Deduct	-0.94	
07 71 23 00-0064 LF 6", 16 Ounce, K-Style Copper Gutter.....	33.44	5.99
For Up To 100', Add	4.82	
For >100' To 250', Add	2.16	
For >1,000', Deduct	-0.98	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 23 00-0065 LF 5", 20 Ounce, K-Style Copper Gutter.....	35.14	5.68
<i>For Up To 100', Add</i>	4.92	
<i>For >100' To 250', Add</i>	2.23	
<i>For >1,000', Deduct</i>	-0.94	
07 71 23 00-0066 LF 6", 20 Ounce, K-Style Copper Gutter.....	43.09	5.99
<i>For Up To 100', Add</i>	5.78	
<i>For >100' To 250', Add</i>	2.65	
<i>For >1,000', Deduct</i>	-0.98	
07 71 23 00-0067 LF 7", 20 Ounce, K-Style Copper Gutter.....	50.06	6.29
<i>For Up To 100', Add</i>	6.59	
<i>For >100' To 250', Add</i>	3.03	
<i>For >1,000', Deduct</i>	-1.06	
07 71 23 00-0068 LF 8", 20 Ounce, K-Style Copper Gutter.....	55.63	7.07
<i>For Up To 100', Add</i>	7.31	
<i>For >100' To 250', Add</i>	3.37	
<i>For >1,000', Deduct</i>	-1.17	
07 71 23 00-0069 Half Round Copper Gutters (07 71 23 00-0060)		
07 71 23 00-0070 LF 5", 16 Ounce, Half Round Copper Gutter	24.78	5.68
<i>For Up To 100', Add</i>	3.88	
<i>For >100' To 250', Add</i>	1.71	
<i>For >1,000', Deduct</i>	-0.94	
07 71 23 00-0071 LF 6", 16 Ounce, Half Round Copper Gutter	30.80	5.99
<i>For Up To 100', Add</i>	4.55	
<i>For >100' To 250', Add</i>	2.03	
<i>For >1,000', Deduct</i>	-0.98	
07 71 23 00-0072 LF 7", 16 Ounce, Half Round Copper Gutter	50.07	6.29
<i>For Up To 100', Add</i>	6.60	
<i>For >100' To 250', Add</i>	3.03	
<i>For >1,000', Deduct</i>	-1.06	
07 71 23 00-0073 LF 5", 20 Ounce, Half Round Copper Gutter	28.50	5.68
<i>For Up To 100', Add</i>	4.26	
<i>For >100' To 250', Add</i>	1.89	
<i>For >1,000', Deduct</i>	-0.94	
07 71 23 00-0074 LF 6", 20 Ounce, Half Round Copper Gutter	34.75	5.99
<i>For Up To 100', Add</i>	4.95	
<i>For >100' To 250', Add</i>	2.23	
<i>For >1,000', Deduct</i>	-0.98	
07 71 23 00-0075 LF 7", 20 Ounce, Half Round Copper Gutter	52.48	6.29
<i>For Up To 100', Add</i>	6.84	
<i>For >100' To 250', Add</i>	3.15	
<i>For >1,000', Deduct</i>	-1.06	
07 71 23 00-0076 LF 8", 20 Ounce, Half Round Copper Gutter	59.53	7.07
<i>For Up To 100', Add</i>	7.70	
<i>For >100' To 250', Add</i>	3.56	
<i>For >1,000', Deduct</i>	-1.17	
07 71 23 00-0077 Box Style Copper Gutters (07 71 23 00-0060)		
07 71 23 00-0078 LF 5", 16 Ounce, Box Style Copper Gutter	28.45	6.45
<i>For Up To 100', Add</i>	4.46	
<i>For >100' To 250', Add</i>	1.96	
<i>For >1,000', Deduct</i>	-1.08	
07 71 23 00-0079 LF 6", 16 Ounce, Box Style Copper Gutter	30.58	7.07
<i>For Up To 100', Add</i>	4.81	
<i>For >100' To 250', Add</i>	2.11	
<i>For >1,000', Deduct</i>	-1.17	
07 71 23 00-0080 LF 7", 16 Ounce, Box Style Copper Gutter	36.64	7.53
<i>For Up To 100', Add</i>	5.53	
<i>For >100' To 250', Add</i>	2.45	
<i>For >1,000', Deduct</i>	-1.24	
07 71 23 00-0081 LF 8", 16 Ounce, Box Style Copper Gutter	37.55	7.99
<i>For Up To 100', Add</i>	5.74	
<i>For >100' To 250', Add</i>	2.54	
<i>For >1,000', Deduct</i>	-1.32	
07 71 23 00-0082 LF 5", 20 Ounce, Box Style Copper Gutter	32.08	6.45
<i>For Up To 100', Add</i>	4.82	
<i>For >100' To 250', Add</i>	2.14	
<i>For >1,000', Deduct</i>	-1.08	
07 71 23 00-0083 LF 6", 20 Ounce, Box Style Copper Gutter	34.22	7.07
<i>For Up To 100', Add</i>	5.17	
<i>For >100' To 250', Add</i>	2.29	
<i>For >1,000', Deduct</i>	-1.17	
07 71 23 00-0084 LF 7", 20 Ounce, Box Style Copper Gutter	40.27	7.53
<i>For Up To 100', Add</i>	5.89	
<i>For >100' To 250', Add</i>	2.64	
<i>For >1,000', Deduct</i>	-1.24	
07 71 23 00-0085 LF 8", 20 Ounce, Box Style Copper Gutter	41.18	7.99
<i>For Up To 100', Add</i>	6.10	
<i>For >100' To 250', Add</i>	2.72	
<i>For >1,000', Deduct</i>	-1.32	
07 71 23 00-0086 Copper Gutter End Caps (07 71 23 00-0059)		

07	Thermal And Moisture Protection
07 70	Roof and Wall Specialties and Accessories
07 71	Roof Specialties



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

07 71 23 00-0087	K-Style, Copper Gutter End Caps (07 71 23 00-0086)		
07 71 23 00-0088	EA 4", K-Style Copper Gutter End Cap	7.10	
07 71 23 00-0089	EA 5", K-Style Copper Gutter End Cap	7.55	
07 71 23 00-0090	EA 6", K-Style Copper Gutter End Cap	7.99	
07 71 23 00-0091	EA 7", K-Style Copper Gutter End Cap	19.89	
07 71 23 00-0092	EA 8", K-Style Copper Gutter End Cap	24.07	
07 71 23 00-0093	Half Round, Copper Gutter End Caps (07 71 23 00-0086)		
07 71 23 00-0094	EA 4", Half Round Copper Gutter End Cap	8.42	
07 71 23 00-0095	EA 5", Half Round Copper Gutter End Cap	9.36	
07 71 23 00-0096	EA 6", Half Round Copper Gutter End Cap	13.72	
07 71 23 00-0097	EA 7", Half Round Copper Gutter End Cap	39.65	
07 71 23 00-0098	EA 8", Half Round Copper Gutter End Cap	46.68	
07 71 23 00-0099	Box Style, Copper Gutter End Caps (07 71 23 00-0086)		
07 71 23 00-0100	EA 5", Box Style Copper Gutter End Cap	15.43	
07 71 23 00-0101	EA 6", Box Style Copper Gutter End Cap	16.16	
07 71 23 00-0102	EA 7", Box Style Copper Gutter End Cap	16.89	
07 71 23 00-0103	EA 8", Box Style Copper Gutter End Cap	18.34	
07 71 23 00-0104	Copper Gutter Miters (07 71 23 00-0059)		
	Note: Inside or outside miters.		
07 71 23 00-0105	K-Style, Copper Gutter Miters (07 71 23 00-0104)		
07 71 23 00-0106	EA 4", K-Style Copper Gutter Miter	44.25	
07 71 23 00-0107	EA 5", K-Style Copper Gutter Miter	49.91	
07 71 23 00-0108	EA 6", K-Style Copper Gutter Miter	70.34	
07 71 23 00-0109	EA 7", K-Style Copper Gutter Miter	97.98	
07 71 23 00-0110	EA 8", K-Style Copper Gutter Miter	114.47	
07 71 23 00-0111	Half Round, Copper Gutter Miters (07 71 23 00-0104)		
07 71 23 00-0112	EA 4", Half Round Copper Gutter Miter	66.98	
07 71 23 00-0113	EA 5", Half Round Copper Gutter Miter	62.51	
07 71 23 00-0114	EA 6", Half Round Copper Gutter Miter	88.56	
07 71 23 00-0115	EA 7", Half Round Copper Gutter Miter	105.05	
07 71 23 00-0116	EA 8", Half Round Copper Gutter Miter	123.62	
07 71 23 00-0117	Box Style, Copper Gutter Miters (07 71 23 00-0104)		
07 71 23 00-0118	EA 5", 16 Ounce Box Style Copper Gutter Miter	73.57	
07 71 23 00-0119	EA 6", 16 Ounce Box Style Copper Gutter Miter	76.10	
07 71 23 00-0120	EA 7", 16 Ounce Box Style Copper Gutter Miter	82.98	
07 71 23 00-0121	EA 8", 16 Ounce Box Style Copper Gutter Miter	84.88	
07 71 23 00-0122	EA 5", 20 Ounce Box Style Copper Gutter Miter	80.83	
07 71 23 00-0123	EA 6", 20 Ounce Box Style Copper Gutter Miter	83.37	
07 71 23 00-0124	EA 7", 20 Ounce Box Style Copper Gutter Miter	90.25	
07 71 23 00-0125	EA 8", 20 Ounce Box Style Copper Gutter Miter	98.74	
07 71 23 00-0126	Copper Gutter Wire Strainers (07 71 23 00-0059)		
07 71 23 00-0127	EA 2" Diameter, Round Copper Wire Strainer	21.92	3.84
07 71 23 00-0128	EA 3" Diameter, Round Copper Wire Strainer	26.50	3.84
07 71 23 00-0129	EA 4" Diameter, Round Copper Wire Strainer	41.44	3.84
07 71 23 00-0130	EA 5" Diameter, Round Copper Wire Strainer	54.45	3.84
07 71 23 00-0131	EA 6" Diameter, Round Copper Wire Strainer	65.34	3.84
07 71 23 00-0132	Copper Downspouts (07 71 23 00-0059)		
	Note: Includes elbows, hangers and fasteners.		
07 71 23 00-0133	Round Copper Downspouts (07 71 23 00-0132)		
07 71 23 00-0134	LF 2" Diameter, 16 Ounce, Round Copper Downspout	27.03	3.69
	For Up To 100', Add	3.30	
	For >100 To 250', Add	1.55	
	For >1,000', Deduct	-0.40	
07 71 23 00-0135	LF 3" Diameter, 16 Ounce, Round Copper Downspout	19.17	3.69
	For Up To 100', Add	2.52	
	For >100 To 250', Add	1.16	
	For >1,000', Deduct	-0.40	
07 71 23 00-0136	LF 4" Diameter, 16 Ounce, Round Copper Downspout	23.87	3.69
	For Up To 100', Add	2.99	
	For >100 To 250', Add	1.39	
	For >1,000', Deduct	-0.40	
07 71 23 00-0137	LF 5" Diameter, 16 Ounce, Round Copper Downspout	37.48	3.69
	For Up To 100', Add	4.35	
	For >100 To 250', Add	2.07	
	For >1,000', Deduct	-0.40	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 23 00-0138 LF 6" Diameter, 16 Ounce, Round Copper Downspout	47.87	3.69
<i>For Up To 100', Add</i>	5.39	
<i>For >100 To 250', Add</i>	2.59	
<i>For >1,000', Deduct</i>	-0.40	
07 71 23 00-0139 LF 3" Diameter, 20 Ounce, Round Copper Downspout	25.54	3.69
<i>For Up To 100', Add</i>	3.15	
<i>For >100 To 250', Add</i>	1.48	
<i>For >1,000', Deduct</i>	-0.40	
07 71 23 00-0140 LF 4" Diameter, 20 Ounce, Round Copper Downspout	32.80	3.69
<i>For Up To 100', Add</i>	3.88	
<i>For >100 To 250', Add</i>	1.84	
<i>For >1,000', Deduct</i>	-0.40	
07 71 23 00-0141 LF 5" Diameter, 20 Ounce, Round Copper Downspout	49.28	3.69
<i>For Up To 100', Add</i>	5.53	
<i>For >100 To 250', Add</i>	2.66	
<i>For >1,000', Deduct</i>	-0.40	
07 71 23 00-0142 Square Copper Downspouts (07 71 23 00-0132)		
07 71 23 00-0143 LF 3" Diameter, 16 Ounce, Square Copper Downspout	13.62	3.69
<i>For Up To 100', Add</i>	1.96	
<i>For >100 To 250', Add</i>	0.88	
<i>For >1,000', Deduct</i>	-0.40	
07 71 23 00-0144 LF 4" Diameter, 16 Ounce, Square Copper Downspout	16.74	3.69
<i>For Up To 100', Add</i>	2.27	
<i>For >100 To 250', Add</i>	1.04	
<i>For >1,000', Deduct</i>	-0.40	
07 71 23 00-0145 LF 5" Diameter, 16 Ounce, Square Copper Downspout	23.48	3.69
<i>For Up To 100', Add</i>	2.95	
<i>For >100 To 250', Add</i>	1.37	
<i>For >1,000', Deduct</i>	-0.40	
07 71 23 00-0146 LF 3" Diameter, 20 Ounce, Square Copper Downspout	15.55	3.69
<i>For Up To 100', Add</i>	2.15	
<i>For >100 To 250', Add</i>	0.98	
<i>For >1,000', Deduct</i>	-0.40	
07 71 23 00-0147 LF 4" Diameter, 20 Ounce, Square Copper Downspout	19.45	3.69
<i>For Up To 100', Add</i>	2.54	
<i>For >100 To 250', Add</i>	1.17	
<i>For >1,000', Deduct</i>	-0.40	
07 71 23 00-0148 LF 5" Diameter, 20 Ounce, Square Copper Downspout	27.45	3.69
<i>For Up To 100', Add</i>	3.34	
<i>For >100 To 250', Add</i>	1.57	
<i>For >1,000', Deduct</i>	-0.40	
07 71 23 00-0149 Rectangular Copper Downspouts (07 71 23 00-0132)		
07 71 23 00-0150 LF 2" x 3", 16 Ounce, Rectangular Copper Downspout	19.65	3.69
<i>For Up To 100', Add</i>	2.56	
<i>For >100 To 250', Add</i>	1.18	
<i>For >1,000', Deduct</i>	-0.40	
07 71 23 00-0151 LF 3" x 4", 16 Ounce, Rectangular Copper Downspout	24.56	3.69
<i>For Up To 100', Add</i>	3.05	
<i>For >100 To 250', Add</i>	1.43	
<i>For >1,000', Deduct</i>	-0.40	
07 71 23 00-0152 LF 4" x 5", 16 Ounce, Rectangular Copper Downspout	34.46	3.69
<i>For Up To 100', Add</i>	4.04	
<i>For >100 To 250', Add</i>	1.92	
<i>For >1,000', Deduct</i>	-0.40	
07 71 23 00-0153 LF 2" x 3", 20 Ounce, Rectangular Copper Downspout	22.70	3.69
<i>For Up To 100', Add</i>	2.87	
<i>For >100 To 250', Add</i>	1.33	
<i>For >1,000', Deduct</i>	-0.40	
07 71 23 00-0154 LF 3" x 4", 20 Ounce, Rectangular Copper Downspout	28.79	3.69
<i>For Up To 100', Add</i>	3.48	
<i>For >100 To 250', Add</i>	1.64	
<i>For >1,000', Deduct</i>	-0.40	
07 71 23 00-0155 LF 4" x 5", 20 Ounce, Rectangular Copper Downspout	40.85	3.69
<i>For Up To 100', Add</i>	4.68	
<i>For >100 To 250', Add</i>	2.24	
<i>For >1,000', Deduct</i>	-0.40	
07 71 23 00-0156 Copper Devices And Accessories (07 71 23 00-0059)		
07 71 23 00-0157 EA Thru-Wall Copper Scupper Outlet.....	219.09	26.37
07 71 23 00-0158 EA Copper Leader/Conductor Head.....	308.31	29.31
07 71 23 00-0159 EA Copper Eave Box.....	148.08	23.04
07 71 23 00-0160 Galvanized Steel Gutters And Downspouts (07 71 23)		
07 71 23 00-0161 Galvanized Steel Gutters (07 71 23 00-0160)		
Note: Includes drop outlets, hangers and fasteners. Excludes end caps, miters and downspouts.		
07 71 23 00-0162 K-Style Galvanized Steel Gutters (07 71 23 00-0161)		

07 Thermal And Moisture Protection
07 70 Roof and Wall Specialties and Accessories
07 71 Roof Specialties



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 23 00-0163	LF	5"	26 Gauge, K-Style Galvanized Steel Gutter	14.98	5.68
			<i>For Up To 100', Add</i>	2.90	
			<i>For >100' To 250', Add</i>	1.22	
			<i>For >1,000', Deduct</i>	-0.94	
			<i>For Kynar 500® Finish, Add</i>	2.52	
			<i>For 24 Gauge, Add</i>	1.57	
			<i>For 22 Gauge, Add</i>	3.09	
07 71 23 00-0164	LF	6"	26 Gauge, K-Style Galvanized Steel Gutter	17.15	5.99
			<i>For Up To 100', Add</i>	3.19	
			<i>For >100' To 250', Add</i>	1.35	
			<i>For >1,000', Deduct</i>	-0.98	
			<i>For Kynar 500® Finish, Add</i>	3.29	
			<i>For 24 Gauge, Add</i>	2.05	
			<i>For 22 Gauge, Add</i>	4.03	
07 71 23 00-0165	LF	7"	26 Gauge, K-Style Galvanized Steel Gutter	33.11	6.29
			<i>For Up To 100', Add</i>	4.90	
			<i>For >100' To 250', Add</i>	2.19	
			<i>For >1,000', Deduct</i>	-1.06	
			<i>For Kynar 500® Finish, Add</i>	10.13	
			<i>For 24 Gauge, Add</i>	6.31	
			<i>For 22 Gauge, Add</i>	12.39	
07 71 23 00-0166	LF	8"	26 Gauge, K-Style Galvanized Steel Gutter	35.05	7.07
			<i>For Up To 100', Add</i>	5.26	
			<i>For >100' To 250', Add</i>	2.34	
			<i>For >1,000', Deduct</i>	-1.17	
			<i>For Kynar 500® Finish, Add</i>	10.52	
			<i>For 24 Gauge, Add</i>	6.55	
			<i>For 22 Gauge, Add</i>	12.86	
07 71 23 00-0167			Half Round Galvanized Steel Gutters (07 71 23 00-0161)		
07 71 23 00-0168	LF	5"	26 Gauge, Half Round Galvanized Steel Gutter	20.77	5.68
			<i>For Up To 100', Add</i>	3.48	
			<i>For >100' To 250', Add</i>	1.51	
			<i>For >1,000', Deduct</i>	-0.94	
			<i>For Kynar 500® Finish, Add</i>	5.13	
			<i>For 24 Gauge, Add</i>	3.19	
			<i>For 22 Gauge, Add</i>	6.27	
07 71 23 00-0169	LF	6"	26 Gauge, Half Round Galvanized Steel Gutter	25.68	5.99
			<i>For Up To 100', Add</i>	4.04	
			<i>For >100' To 250', Add</i>	1.78	
			<i>For >1,000', Deduct</i>	-0.98	
			<i>For Kynar 500® Finish, Add</i>	7.13	
			<i>For 24 Gauge, Add</i>	4.44	
			<i>For 22 Gauge, Add</i>	8.72	
07 71 23 00-0170	LF	7"	26 Gauge, Half Round Galvanized Steel Gutter	61.08	6.29
			<i>For Up To 100', Add</i>	7.70	
			<i>For >100' To 250', Add</i>	3.58	
			<i>For >1,000', Deduct</i>	-1.06	
			<i>For Kynar 500® Finish, Add</i>	22.72	
			<i>For 24 Gauge, Add</i>	14.14	
			<i>For 22 Gauge, Add</i>	27.77	
07 71 23 00-0171	LF	8"	26 Gauge, Half Round Galvanized Steel Gutter	65.27	7.07
			<i>For Up To 100', Add</i>	8.28	
			<i>For >100' To 250', Add</i>	3.85	
			<i>For >1,000', Deduct</i>	-1.17	
			<i>For Kynar 500® Finish, Add</i>	24.12	
			<i>For 24 Gauge, Add</i>	15.01	
			<i>For 22 Gauge, Add</i>	29.48	
07 71 23 00-0172			Box Style Galvanized Steel Gutters (07 71 23 00-0161)		
07 71 23 00-0173	LF	5"	24 Gauge, Box Style Galvanized Steel Gutter	24.75	6.45
			<i>For Up To 100', Add</i>	4.09	
			<i>For >100' To 250', Add</i>	1.78	
			<i>For >1,000', Deduct</i>	-1.08	
			<i>For Kynar 500® Finish, Add</i>	6.30	
			<i>For 22 Gauge, Add</i>	3.08	
07 71 23 00-0174	LF	6"	24 Gauge, Box Style Galvanized Steel Gutter	28.79	7.07
			<i>For Up To 100', Add</i>	4.63	
			<i>For >100' To 250', Add</i>	2.02	
			<i>For >1,000', Deduct</i>	-1.17	
			<i>For Kynar 500® Finish, Add</i>	7.70	
			<i>For 22 Gauge, Add</i>	3.77	
07 71 23 00-0175	LF	7"	24 Gauge, Box Style Galvanized Steel Gutter	35.34	6.29
			<i>For Up To 100', Add</i>	5.12	
			<i>For >100' To 250', Add</i>	2.30	
			<i>For >1,000', Deduct</i>	-1.06	
			<i>For Kynar 500® Finish, Add</i>	11.14	
			<i>For 22 Gauge, Add</i>	5.45	
07 71 23 00-0176	LF	8"	24 Gauge, Box Style Galvanized Steel Gutter	39.62	7.99
			<i>For Up To 100', Add</i>	5.94	
			<i>For >100' To 250', Add</i>	2.64	
			<i>For >1,000', Deduct</i>	-1.32	
			<i>For Kynar 500® Finish, Add</i>	11.88	
			<i>For 22 Gauge, Add</i>	5.81	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 23 00-0177			Galvanized Steel Gutter End Caps (07 71 23 00-0160)		
07 71 23 00-0178			K-Style, Galvanized Steel Gutter End Caps (07 71 23 00-0177)		
07 71 23 00-0179	EA		5", K-Style Galvanized Steel Gutter End Cap <i>For Kynar 500® Finish, Add</i>	6.44 1.51	
07 71 23 00-0180	EA		6", K-Style Galvanized Steel Gutter End Cap <i>For Kynar 500® Finish, Add</i>	7.32 1.91	
07 71 23 00-0181	EA		7", K-Style Galvanized Steel Gutter End Cap <i>For Kynar 500® Finish, Add</i>	15.17 5.44	
07 71 23 00-0182	EA		8", K-Style Galvanized Steel Gutter End Cap <i>For Kynar 500® Finish, Add</i>	21.72 8.39	
07 71 23 00-0183			Half Round, Galvanized Steel Gutter End Caps (07 71 23 00-0177)		
07 71 23 00-0184	EA		5", Half Round Galvanized Steel Gutter End Cap <i>For Kynar 500® Finish, Add</i>	8.10 2.26	
07 71 23 00-0185	EA		6", Half Round Galvanized Steel Gutter End Cap <i>For Kynar 500® Finish, Add</i>	9.23 2.77	
07 71 23 00-0186	EA		7", Half Round Galvanized Steel Gutter End Cap <i>For Kynar 500® Finish, Add</i>	16.67 6.12	
07 71 23 00-0187	EA		8", Half Round Galvanized Steel Gutter End Cap <i>For Kynar 500® Finish, Add</i>	22.31 8.65	
07 71 23 00-0188			Box Style, Galvanized Steel Gutter End Caps (07 71 23 00-0177)		
07 71 23 00-0189	EA		5", Box Style Galvanized Steel Gutter End Cap <i>For Kynar 500® Finish, Add</i>	14.04 4.93	
07 71 23 00-0190	EA		6", Box Style Galvanized Steel Gutter End Cap <i>For Kynar 500® Finish, Add</i>	16.78 6.17	
07 71 23 00-0191	EA		7", Box Style Galvanized Steel Gutter End Cap <i>For Kynar 500® Finish, Add</i>	18.72 7.04	
07 71 23 00-0192	EA		8", Box Style Galvanized Steel Gutter End Cap <i>For Kynar 500® Finish, Add</i>	24.87 9.81	
07 71 23 00-0193			Galvanized Steel Gutter Miters (07 71 23 00-0160) Note: Inside or outside miters.		
07 71 23 00-0194			K-Style, Galvanized Steel Gutter Miters (07 71 23 00-0193)		
07 71 23 00-0195	EA		5", K-Style Galvanized Steel Gutter Miter <i>For Kynar 500® Finish, Add</i>	38.28 10.25	
07 71 23 00-0196	EA		6", K-Style Galvanized Steel Gutter Miter <i>For Kynar 500® Finish, Add</i>	60.15 19.60	
07 71 23 00-0197	EA		7", K-Style Galvanized Steel Gutter Miter <i>For Kynar 500® Finish, Add</i>	94.27 34.47	
07 71 23 00-0198	EA		8", K-Style Galvanized Steel Gutter Miter <i>For Kynar 500® Finish, Add</i>	105.76 39.09	
07 71 23 00-0199			Half Round, Galvanized Steel Gutter Miters (07 71 23 00-0193)		
07 71 23 00-0200	EA		5", Half Round Galvanized Steel Gutter Miter <i>For Kynar 500® Finish, Add</i>	51.15 16.04	
07 71 23 00-0201	EA		6", Half Round Galvanized Steel Gutter Miter <i>For Kynar 500® Finish, Add</i>	57.31 18.32	
07 71 23 00-0202	EA		7", Half Round Galvanized Steel Gutter Miter <i>For Kynar 500® Finish, Add</i>	156.12 62.31	
07 71 23 00-0203	EA		8", Half Round Galvanized Steel Gutter Miter <i>For Kynar 500® Finish, Add</i>	165.04 65.77	
07 71 23 00-0204			Box Style, Galvanized Steel Gutter Miters (07 71 23 00-0193)		
07 71 23 00-0205	EA		5", Box Style Galvanized Steel Gutter Miter <i>For Kynar 500® Finish, Add</i>	48.57 14.88	
07 71 23 00-0206	EA		6", Box Style Galvanized Steel Gutter Miter <i>For Kynar 500® Finish, Add</i>	77.19 27.27	
07 71 23 00-0207	EA		7", Box Style Galvanized Steel Gutter Miter <i>For Kynar 500® Finish, Add</i>	99.40 36.78	
07 71 23 00-0208	EA		8", Box Style Galvanized Steel Gutter Miter <i>For Kynar 500® Finish, Add</i>	105.76 39.09	
07 71 23 00-0209			Galvanized Steel Gutter Wire Strainers (07 71 23 00-0160)		
07 71 23 00-0210	EA		3" Diameter, Round Galvanized Steel Wire Strainer <i>For Kynar 500® Finish, Add</i>	15.33 3.30	3.84
07 71 23 00-0211	EA		4" Diameter, Round Galvanized Steel Wire Strainer <i>For Kynar 500® Finish, Add</i>	21.57 6.11	3.84
07 71 23 00-0212			Galvanized Steel Downspouts (07 71 23 00-0160) Note: Includes elbows, hangers and fasteners.		

07	Thermal And Moisture Protection
07 70	Roof and Wall Specialties and Accessories
07 71	Roof Specialties



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 23 00-0213			Round Galvanized Steel Downspouts (07 71 23 00-0212)		
07 71 23 00-0214	LF		3" Diameter, 26 Gauge, Round Galvanized Steel Downspout.....	8.08	3.69
			For Up To 100', Add	1.41	
			For >100 To 250', Add	0.60	
			For >1,000', Deduct	-0.40	
			For Kynar 500® Finish, Add	1.84	
			For 24 Gauge, Add	1.15	
			For 22 Gauge, Add	2.25	
07 71 23 00-0215	LF		4" Diameter, 26 Gauge, Round Galvanized Steel Downspout.....	9.84	3.69
			For Up To 100', Add	1.58	
			For >100 To 250', Add	0.69	
			For >1,000', Deduct	-0.40	
			For Kynar 500® Finish, Add	2.63	
			For 24 Gauge, Add	1.64	
			For 22 Gauge, Add	3.22	
07 71 23 00-0216	LF		5" Diameter, 26 Gauge, Round Galvanized Steel Downspout.....	13.08	3.69
			For Up To 100', Add	1.91	
			For >100 To 250', Add	0.85	
			For >1,000', Deduct	-0.40	
			For Kynar 500® Finish, Add	4.09	
			For 24 Gauge, Add	2.55	
			For 22 Gauge, Add	5.00	
07 71 23 00-0217	LF		6" Diameter, 26 Gauge, Round Galvanized Steel Downspout.....	28.04	3.69
			For Up To 100', Add	3.40	
			For >100 To 250', Add	1.60	
			For >1,000', Deduct	-0.40	
			For Kynar 500® Finish, Add	10.82	
			For 24 Gauge, Add	6.73	
			For 22 Gauge, Add	13.23	
07 71 23 00-0218			Square Galvanized Steel Downspouts (07 71 23 00-0212)		
07 71 23 00-0219	LF		4" x 4", 26 Gauge, Square Galvanized Steel Downspout	9.06	3.69
			For Up To 100', Add	1.50	
			For >100 To 250', Add	0.65	
			For >1,000', Deduct	-0.40	
			For Kynar 500® Finish, Add	2.28	
			For 24 Gauge, Add	1.42	
			For 22 Gauge, Add	2.79	
07 71 23 00-0220	LF		5" x 5", 26 Gauge, Square Galvanized Steel Downspout	11.37	3.69
			For Up To 100', Add	1.74	
			For >100 To 250', Add	0.77	
			For >1,000', Deduct	-0.40	
			For Kynar 500® Finish, Add	3.32	
			For 24 Gauge, Add	2.07	
			For 22 Gauge, Add	4.06	
07 71 23 00-0221			Rectangular Galvanized Steel Downspouts (07 71 23 00-0212)		
07 71 23 00-0222	LF		2" x 3", 26 Gauge, Rectangular Galvanized Steel Downspout.....	8.22	3.69
			For Up To 100', Add	1.42	
			For >100 To 250', Add	0.61	
			For >1,000', Deduct	-0.40	
			For Kynar 500® Finish, Add	1.90	
			For 24 Gauge, Add	1.18	
			For 22 Gauge, Add	2.33	
07 71 23 00-0223	LF		3" x 4", 26 Gauge, Rectangular Galvanized Steel Downspout.....	10.24	3.69
			For Up To 100', Add	1.62	
			For >100 To 250', Add	0.71	
			For >1,000', Deduct	-0.40	
			For Kynar 500® Finish, Add	2.81	
			For 24 Gauge, Add	1.75	
			For 22 Gauge, Add	3.44	
07 71 23 00-0224	LF		4" x 5", 26 Gauge, Rectangular Galvanized Steel Downspout.....	18.28	3.69
			For Up To 100', Add	2.43	
			For >100 To 250', Add	1.11	
			For >1,000', Deduct	-0.40	
			For Kynar 500® Finish, Add	6.43	
			For 24 Gauge, Add	4.00	
			For 22 Gauge, Add	7.86	
07 71 23 00-0225			Galvanized Steel Devices (07 71 23 00-0160)		
07 71 23 00-0226	EA		Galvanized Steel Leader/Conductor Head.....	320.20	29.31
			For Kynar 500® Finish, Add	117.71	
07 71 23 00-0227	EA		Thru-Wall Galvanized Steel Scupper Outlet	185.32	26.37
			For Kynar 500® Finish, Add	43.83	
07 71 23 00-0228			Stainless Steel Gutters And Downspouts (07 71 23)		
			Note: AISI type 304 stainless steel.		
07 71 23 00-0229			Stainless Steel Gutters (07 71 23 00-0228)		
			Note: Includes drop outlets, hangers and fasteners. Excludes end caps, miters and downspouts.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 23 00-0230 K-Style, Stainless Steel Gutters <small>(07 71 23 00-0229)</small>		
07 71 23 00-0231 LF 5", 26 Gauge, K-Style Stainless Steel Gutter.....	30.57	5.68
For Up To 100', Add	4.46	
For >100' To 250', Add	2.00	
For >1,000', Deduct	-0.94	
For 316 Stainless Steel, Add	8.06	
For 24 Gauge, Add	7.00	
For 22 Gauge, Add	13.99	
For 20 Gauge, Add	20.99	
07 71 23 00-0232 LF 6", 26 Gauge, K-Style Stainless Steel Gutter.....	36.34	5.99
For Up To 100', Add	5.11	
For >100' To 250', Add	2.31	
For >1,000', Deduct	-0.98	
For 316 Stainless Steel, Add	10.07	
For 24 Gauge, Add	8.75	
For 22 Gauge, Add	17.50	
For 20 Gauge, Add	26.24	
07 71 23 00-0233 Half Round, Stainless Steel Gutters <small>(07 71 23 00-0229)</small>		
07 71 23 00-0234 LF 5", 26 Gauge, Half Round Stainless Steel Gutter	41.47	5.68
For Up To 100', Add	5.55	
For >100' To 250', Add	2.54	
For >1,000', Deduct	-0.94	
For 316 Stainless Steel, Add	12.20	
For 24 Gauge, Add	10.59	
For 22 Gauge, Add	21.19	
For 20 Gauge, Add	31.78	
07 71 23 00-0235 LF 6", 26 Gauge, Half Round Stainless Steel Gutter	49.89	5.99
For Up To 100', Add	6.46	
For >100' To 250', Add	2.99	
For >1,000', Deduct	-0.98	
For 316 Stainless Steel, Add	15.22	
For 24 Gauge, Add	13.22	
For 22 Gauge, Add	26.44	
For 20 Gauge, Add	39.66	
07 71 23 00-0236 Box Style, Stainless Steel Gutters <small>(07 71 23 00-0229)</small>		
07 71 23 00-0237 LF 5", 26 Gauge, Box Style Stainless Steel Gutter	40.99	6.45
For Up To 100', Add	5.71	
For >100' To 250', Add	2.59	
For >1,000', Deduct	-1.08	
For 316 Stainless Steel, Add	11.49	
For 24 Gauge, Add	9.98	
For 22 Gauge, Add	19.95	
For 20 Gauge, Add	29.93	
For 18 Gauge, Add	50.18	
For Seamless Gutter, Add	0.10	
07 71 23 00-0238 LF 6", 26 Gauge, Box Style Stainless Steel Gutter	49.65	7.07
For Up To 100', Add	6.72	
For >100' To 250', Add	3.07	
For >1,000', Deduct	-1.17	
For 316 Stainless Steel, Add	14.43	
For 24 Gauge, Add	12.53	
For 22 Gauge, Add	25.07	
For 20 Gauge, Add	37.60	
For 18 Gauge, Add	63.05	
For Seamless Gutter, Add	-0.15	
07 71 23 00-0239 LF 7", 26 Gauge, Box Style Stainless Steel Gutter	58.33	7.53
For Up To 100', Add	7.70	
For >100' To 250', Add	3.54	
For >1,000', Deduct	-1.24	
For 316 Stainless Steel, Add	17.44	
For 24 Gauge, Add	15.14	
For 22 Gauge, Add	30.29	
For 20 Gauge, Add	45.43	
For 18 Gauge, Add	76.18	
For Seamless Gutter, Add	-0.43	
07 71 23 00-0240 LF 8", 26 Gauge, Box Style Stainless Steel Gutter	63.35	7.99
For Up To 100', Add	8.32	
For >100' To 250', Add	3.83	
For >1,000', Deduct	-1.32	
For 316 Stainless Steel, Add	19.05	
For 24 Gauge, Add	16.55	
For 22 Gauge, Add	33.09	
For 20 Gauge, Add	49.64	
For 18 Gauge, Add	83.23	
For Seamless Gutter, Add	-0.53	
07 71 23 00-0241 Stainless Steel Gutter End Caps <small>(07 71 23 00-0228)</small>		
07 71 23 00-0242 K-Style, Stainless Steel Gutter End Caps <small>(07 71 23 00-0241)</small>		

07	Thermal And Moisture Protection
07 70	Roof and Wall Specialties and Accessories
07 71	Roof Specialties



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 23 00-0243	EA		5", K-Style Stainless Steel Gutter End Cap .....9.71 <i>For 316 Stainless Steel, Add</i> 2.52	9.71	
07 71 23 00-0244	EA		6", K-Style Stainless Steel Gutter End Cap .....11.04 <i>For 316 Stainless Steel, Add</i> 3.02	11.04	
07 71 23 00-0245			Half Round, Stainless Steel Gutter End Caps (07 71 23 00-0241)		
07 71 23 00-0246	EA		5", Half Round Stainless Steel Gutter End Cap .....11.37 <i>For 316 Stainless Steel, Add</i> 3.15	11.37	
07 71 23 00-0247	EA		6", Half Round Stainless Steel Gutter End Cap .....13.03 <i>For 316 Stainless Steel, Add</i> 3.78	13.03	
07 71 23 00-0248			Box Style, Stainless Steel Gutter End Caps (07 71 23 00-0241)		
07 71 23 00-0249	EA		5", Box Style Stainless Steel Gutter End Cap .....12.13 <i>For 316 Stainless Steel, Add</i> 3.15	12.13	
07 71 23 00-0250	EA		6", Box Style Stainless Steel Gutter End Cap .....13.79 <i>For 316 Stainless Steel, Add</i> 3.78	13.79	
07 71 23 00-0251	EA		7", Box Style Stainless Steel Gutter End Cap .....14.32 <i>For 316 Stainless Steel, Add</i> 4.08	14.32	
07 71 23 00-0252	EA		8", Box Style Stainless Steel Gutter End Cap .....17.31 <i>For 316 Stainless Steel, Add</i> 5.03	17.31	
07 71 23 00-0253			Stainless Steel Gutter Miters (07 71 23 00-0228) Note: Inside or outside box miters.		
07 71 23 00-0254			K-Style, Stainless Steel Gutter Miters (07 71 23 00-0253)		
07 71 23 00-0255	EA		5", K-Style Stainless Steel Gutter Miter .....49.77 <i>For 316 Stainless Steel, Add</i> 13.02	49.77	
07 71 23 00-0256	EA		6", K-Style Stainless Steel Gutter Miter .....77.38 <i>For 316 Stainless Steel, Add</i> 23.10	77.38	
07 71 23 00-0257			Half Round, Stainless Steel Gutter Miters (07 71 23 00-0253)		
07 71 23 00-0258	EA		5", Half Round Stainless Steel Gutter Miter .....116.09 <i>For 316 Stainless Steel, Add</i> 38.22	116.09	
07 71 23 00-0259	EA		6", Half Round Stainless Steel Gutter Miter .....141.44 <i>For 316 Stainless Steel, Add</i> 47.44	141.44	
07 71 23 00-0260			Box-Style, Stainless Steel Gutter Miters (07 71 23 00-0253)		
07 71 23 00-0261	EA		5", Box-Style Stainless Steel Gutter Miter .....56.62 <i>For 316 Stainless Steel, Add</i> 15.62	56.62	
07 71 23 00-0262	EA		6", Box-Style Stainless Steel Gutter Miter .....89.54 <i>For 316 Stainless Steel, Add</i> 27.72	89.54	
07 71 23 00-0263	EA		7", Box-Style Stainless Steel Gutter Miter .....102.76 <i>For 316 Stainless Steel, Add</i> 32.34	102.76	
07 71 23 00-0264	EA		8", Box-Style Stainless Steel Gutter Miter .....116.15 <i>For 316 Stainless Steel, Add</i> 36.96	116.15	
07 71 23 00-0265			Stainless Steel Gutter Wire Strainers (07 71 23 00-0228)		
07 71 23 00-0266	EA		3" Diameter, Round Stainless Steel Wire Strainer .....47.43	47.43	3.84
07 71 23 00-0267	EA		4" Diameter, Round Stainless Steel Wire Strainer .....48.51	48.51	3.84
07 71 23 00-0268			Stainless Steel Downspouts (07 71 23 00-0228) Note: Includes elbows, hangers and fasteners.		
07 71 23 00-0269			Round Stainless Steel Downspouts (07 71 23 00-0268)		
07 71 23 00-0270	LF		3" Diameter, 26 Gauge, Round Stainless Steel Downspout .....17.69 <i>For Up To 100', Add</i> 2.37 <i>For >100 To 250', Add</i> 1.08 <i>For >1,000', Deduct</i> -0.40 <i>For 316 Stainless Steel, Add</i> 5.21 <i>For 24 Gauge, Add</i> 4.52 <i>For 22 Gauge, Add</i> 9.04 <i>For 20 Gauge, Add</i> 13.56	17.69	3.69
07 71 23 00-0271	LF		4" Diameter, 26 Gauge, Round Stainless Steel Downspout .....23.00 <i>For Up To 100', Add</i> 2.90 <i>For >100 To 250', Add</i> 1.35 <i>For >1,000', Deduct</i> -0.40 <i>For 316 Stainless Steel, Add</i> 7.22 <i>For 24 Gauge, Add</i> 6.27 <i>For 22 Gauge, Add</i> 12.55 <i>For 20 Gauge, Add</i> 18.82	23.00	3.69



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 23 00-0272 LF 5" Diameter, 26 Gauge, Round Stainless Steel Downspout	33.03	3.69
<i>For Up To 100', Add</i>	3.90	
<i>For >100 To 250', Add</i>	1.85	
<i>For >1,000', Deduct</i>	-0.40	
<i>For 316 Stainless Steel, Add</i>	11.04	
<i>For 24 Gauge, Add</i>	9.58	
<i>For 22 Gauge, Add</i>	19.17	
<i>For 20 Gauge, Add</i>	28.75	
07 71 23 00-0273 Rectangular Stainless Steel Downspouts (07 71 23 00-0268)		
07 71 23 00-0274 LF 2" x 3", 26 Gauge, Rectangular Stainless Steel Downspout	18.08	3.69
<i>For Up To 100', Add</i>	2.41	
<i>For >100 To 250', Add</i>	1.10	
<i>For >1,000', Deduct</i>	-0.40	
<i>For 316 Stainless Steel, Add</i>	5.35	
<i>For 24 Gauge, Add</i>	4.65	
<i>For 22 Gauge, Add</i>	9.30	
<i>For 20 Gauge, Add</i>	13.95	
<i>For 18 Gauge, Add</i>	23.39	
07 71 23 00-0275 LF 3" x 4", 26 Gauge, Rectangular Stainless Steel Downspout	23.80	3.69
<i>For Up To 100', Add</i>	2.98	
<i>For >100 To 250', Add</i>	1.39	
<i>For >1,000', Deduct</i>	-0.40	
<i>For 316 Stainless Steel, Add</i>	7.53	
<i>For 24 Gauge, Add</i>	6.54	
<i>For 22 Gauge, Add</i>	13.07	
<i>For 20 Gauge, Add</i>	19.61	
<i>For 18 Gauge, Add</i>	32.88	
07 71 23 00-0276 LF 4" x 5", 26 Gauge, Rectangular Stainless Steel Downspout	30.48	3.69
<i>For Up To 100', Add</i>	3.65	
<i>For >100 To 250', Add</i>	1.72	
<i>For >1,000', Deduct</i>	-0.40	
<i>For 316 Stainless Steel, Add</i>	10.07	
<i>For 24 Gauge, Add</i>	8.74	
<i>For 22 Gauge, Add</i>	17.48	
<i>For 20 Gauge, Add</i>	26.23	
<i>For 18 Gauge, Add</i>	43.97	
07 71 23 00-0277 Stainless Steel Devices (07 71 23 00-0228)		
07 71 23 00-0278 EA Thru-Wall Stainless Steel Scupper Outlet	295.20	34.56
<i>For 316 Stainless Steel, Add</i>	68.41	
07 71 23 00-0279 EA Stainless Steel Leader/Conductor Head	443.01	34.56
<i>For 316 Stainless Steel, Add</i>	139.16	
07 71 23 00-0280 Vinyl Gutters And Downspouts (07 71 23)		
07 71 23 00-0281 Vinyl Gutters (07 71 23 00-0280)		
Note: Includes drop outlets, hangers and fasteners. Excludes end caps, miters and downspouts.		
07 71 23 00-0282 K-Style Vinyl Gutters (07 71 23 00-0281)		
07 71 23 00-0283 LF 4", K-Style Vinyl Gutter	13.02	3.84
<i>For Up To 100', Add</i>	2.26	
<i>For >100' To 250', Add</i>	0.97	
<i>For >1,000', Deduct</i>	-0.64	
07 71 23 00-0284 LF 5", K-Style Vinyl Gutter	16.43	3.84
<i>For Up To 100', Add</i>	2.60	
<i>For >100' To 250', Add</i>	1.14	
<i>For >1,000', Deduct</i>	-0.64	
07 71 23 00-0285 Half Round Vinyl Gutters (07 71 23 00-0281)		
07 71 23 00-0286 LF 4", Half Round Vinyl Gutter	13.41	3.84
<i>For Up To 100', Add</i>	2.30	
<i>For >100' To 250', Add</i>	0.99	
<i>For >1,000', Deduct</i>	-0.64	
07 71 23 00-0287 LF 5", Half Round Vinyl Gutter	14.03	3.84
<i>For Up To 100', Add</i>	2.36	
<i>For >100' To 250', Add</i>	1.02	
<i>For >1,000', Deduct</i>	-0.64	
07 71 23 00-0288 Vinyl Gutter End Caps (07 71 23 00-0280)		
07 71 23 00-0289 K-Style, Vinyl Gutter End Caps (07 71 23 00-0288)		
07 71 23 00-0290 EA 4", K-Style Vinyl Gutter End Cap	7.88	
07 71 23 00-0291 EA 5", K-Style Vinyl Gutter End Cap	10.71	
07 71 23 00-0292 Half Round, Vinyl Gutter End Caps (07 71 23 00-0288)		
07 71 23 00-0293 EA 4", Half Round Vinyl Gutter End Cap	8.93	
07 71 23 00-0294 EA 5", Half Round Vinyl Gutter End Cap	8.46	

07	Thermal And Moisture Protection
07 70	Roof and Wall Specialties and Accessories
07 71	Roof Specialties



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

07 71 23 00-0295	Vinyl Gutter Miters (07 71 23 00-0280) Note: Inside or outside miters.		
07 71 23 00-0296	K-Style, Vinyl Gutter Miters (07 71 23 00-0295)		
07 71 23 00-0297	EA 4", K-Style Vinyl Gutter Miter	19.19	
07 71 23 00-0298	EA 5", K-Style Vinyl Gutter Miter	28.32	
07 71 23 00-0299	Half Round, Vinyl Gutter Miters (07 71 23 00-0295)		
07 71 23 00-0300	EA 4", Half Round Vinyl Gutter Miter	19.19	
07 71 23 00-0301	EA 5", Half Round Vinyl Gutter Miter	20.76	
07 71 23 00-0302	Vinyl Downspouts (07 71 23 00-0280) Note: Includes elbows, hangers and fasteners.		
07 71 23 00-0303	Round Vinyl Downspouts (07 71 23 00-0302)		
07 71 23 00-0304	LF 2-1/2" Diameter, Round Vinyl Downspout.....	8.51	3.69
	For Up To 100', Add	1.45	
	For >100 To 250', Add	0.63	
	For >1,000', Deduct	-0.40	
07 71 23 00-0305	LF 3" Diameter, Round Vinyl Downspout.....	8.84	3.69
	For Up To 100', Add	1.48	
	For >100 To 250', Add	0.64	
	For >1,000', Deduct	-0.40	
07 71 23 00-0306	Square Vinyl Downspouts (07 71 23 00-0302)		
07 71 23 00-0307	LF 2-1/2", Square Vinyl Downspout	8.37	3.69
	For Up To 100', Add	1.44	
	For >100 To 250', Add	0.62	
	For >1,000', Deduct	-0.40	
07 71 23 00-0308	Rectangular Vinyl Downspouts (07 71 23 00-0302)		
07 71 23 00-0309	LF 2" x 3", Rectangular Vinyl Downspout.....	10.51	3.69
	For Up To 100', Add	1.65	
	For >100 To 250', Add	0.73	
	For >1,000', Deduct	-0.40	
07 71 23 00-0310	Gutter And Downspout Boots (07 71 23)		
07 71 23 00-0311	Cast Iron Roof Drainage Downspout Boots (07 71 23 00-0310)		
07 71 23 00-0312	EA 2" x 3" x 18" Long, Cast Iron Roof Drainage Downspout Boot.....	336.70	5.53
07 71 23 00-0313	EA 3" x 4" x 18" Long, Cast Iron Roof Drainage Downspout Boot.....	438.76	5.53
07 71 23 00-0314	EA 4" x 5" x 24" Long, Cast Iron Roof Drainage Downspout Boot.....	523.62	5.53
07 71 23 00-0315	Cast Iron Roof Drainage Downspout Boots With Cleanouts (07 71 23 00-0310)		
07 71 23 00-0316	EA 3" x 4" x 18" Long, Cast Iron Roof Drainage Downspout Boot With Cleanout	581.39	5.53
07 71 23 00-0317	EA 4" x 5" x 24" Long, Cast Iron Roof Drainage Downspout Boot With Cleanout	710.17	5.53
07 71 23 00-0318	EA 5" x 7" x 30" Long, Cast Iron Roof Drainage Downspout Boot With Cleanout	1,288.48	5.53
07 71 23 00-0319	Wall Mounted Downspout Covers With Hinged Perforated Cover (07 71 23)		
07 71 23 00-0320	EA 3" Pipe Size, Type 304 Stainless Steel Downspout Cover With Hinged Perforated Cover (JR Smith 1775-03).....	1,175.54	38.06
	For Polished Brass Finish (-PB), Add	109.94	
	For Chrome Plated Finish (-CP), Add	164.91	
	For Vandal Proof (-U), Add	54.97	
07 71 23 00-0321	EA 4" Pipe Size, Type 304 Stainless Steel Downspout Cover With Hinged Perforated Cover (JR Smith 1775-04).....	1,200.91	50.75
	For Polished Brass Finish (-PB), Add	109.94	
	For Chrome Plated Finish (-CP), Add	164.91	
	For Vandal Proof (-U), Add	54.97	
07 71 23 00-0322	EA 6" Pipe Size, Type 304 Stainless Steel Downspout Cover With Hinged Perforated Cover (JR Smith 1775-06).....	1,284.80	61.84
	For Polished Brass Finish (-PB), Add	116.11	
	For Chrome Plated Finish (-CP), Add	174.17	
	For Vandal Proof (-U), Add	58.06	
07 71 23 00-0323	EA 8" Pipe Size, Type 304 Stainless Steel Downspout Cover With Hinged Perforated Cover (JR Smith 1775-08).....	1,373.16	78.08
	For Polished Brass Finish (-PB), Add	121.70	
	For Chrome Plated Finish (-CP), Add	182.55	
	For Vandal Proof (-U), Add	60.85	
07 71 23 00-0324	EA 10" Pipe Size, Type 304 Stainless Steel Downspout Cover With Hinged Perforated Cover (JR Smith 1775-10).....	1,480.16	96.19
	For Polished Brass Finish (-PB), Add	128.78	
	For Chrome Plated Finish (-CP), Add	193.17	
	For Vandal Proof (-U), Add	64.39	
07 71 23 00-0325	EA 12" Pipe Size, Type 304 Stainless Steel Downspout Cover With Hinged Perforated Cover (JR Smith 1775-12).....	1,634.59	134.28
	For Polished Brass Finish (-PB), Add	136.60	
	For Chrome Plated Finish (-CP), Add	204.90	
	For Vandal Proof (-U), Add	68.30	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 23 00-0326	EA			15" Pipe Size, Type 304 Stainless Steel Downspout Cover With Hinged Perforated Cover (JR Smith 1775-15).....	1,816.68	186.75
				For Polished Brass Finish (-PB), Add	144.32	
				For Chrome Plated Finish (-CP), Add	216.48	
				For Vandal Proof (-U), Add	72.16	
07 71 23 00-0327				Wall Mounted Downspout Nozzle (07 71 23)		
07 71 23 00-0328	EA			3" Pipe Size, Rough Bronze Finish Downspout Nozzle (JR Smith 1770-03).....	313.47	38.06
				For Nickel Bronze Finish (-NB), Add	166.14	
				For Polished Bronze Finish (-PB), Add	130.54	
				For Chrome Plated Finish (-CP), Add	211.23	
07 71 23 00-0329	EA			4" Pipe Size, Rough Bronze Finish Downspout Nozzle (JR Smith 1770-04).....	338.84	50.75
				For Nickel Bronze Finish (-NB), Add	166.14	
				For Polished Bronze Finish (-PB), Add	130.54	
				For Chrome Plated Finish (-CP), Add	211.23	
07 71 23 00-0330	EA			6" Pipe Size, Rough Bronze Finish Downspout Nozzle (JR Smith 1770-06).....	686.67	61.84
				For Nickel Bronze Finish (-NB), Add	168.90	
				For Polished Bronze Finish (-PB), Add	95.71	
				For Chrome Plated Finish (-CP), Add	247.72	
07 71 23 00-0331	EA			8" Pipe Size, Rough Bronze Finish Downspout Nozzle (JR Smith 1770-08).....	1,010.77	78.08
				For Nickel Bronze Finish (-NB), Add	145.29	
				For Polished Bronze Finish (-PB), Add	111.10	
				For Chrome Plated Finish (-CP), Add	247.84	
07 71 23 00-0332	EA			10" Pipe Size, Rough Bronze Finish Downspout Nozzle (JR Smith 1770-10).....	1,301.90	96.19
				For Nickel Bronze Finish (-NB), Add	188.62	
				For Polished Bronze Finish (-PB), Add	144.24	
				For Chrome Plated Finish (-CP), Add	321.76	
07 71 23 00-0333	EA			12" Pipe Size, Rough Bronze Finish Downspout Nozzle (JR Smith 1770-12).....	1,664.39	134.28
				For Nickel Bronze Finish (-NB), Add	237.29	
				For Polished Bronze Finish (-PB), Add	181.46	
				For Chrome Plated Finish (-CP), Add	404.79	
07 71 23 00-0334				Leaf Guards And Cleaning (07 71 23)		
07 71 23 00-0335	LF			Aluminum Mesh Gutter Leaf Guard For Up To 100', Add For >100' To 250', Add For >1,000', Deduct	4.08 0.71 0.31 -0.20	1.02
07 71 23 00-0336	LF			Vinyl Mesh Gutter Leaf Guard For Up To 100', Add For >100' To 250', Add For >1,000', Deduct	3.21 0.62 0.26 -0.20	1.02
07 71 23 00-0337	LF			6" Wide Stainless Steel Gutter Leaf Guard, 1/4" x 1/4" x 0.08" Wire For Up To 100', Add For >100' To 250', Add For >1,000', Deduct	17.05 2.09 0.98 -0.26	1.27
07 71 23 00-0338	LF			9" Wide Stainless Steel Gutter Leaf Guard, 1/4" x 1/4" x 0.08" Wire For Up To 100', Add For >100' To 250', Add For >1,000', Deduct	24.32 2.82 1.35 -0.26	1.27
07 71 23 00-0339	LF			6" Wide Stainless Steel Gutter Leaf Guard, 3/8" x 3/8" Mesh For Up To 100', Add For >100' To 250', Add For >1,000', Deduct	12.98 1.60 0.75 -0.20	1.27
07 71 23 00-0340	LF			9" Wide Stainless Steel Gutter Leaf Guard, 3/8" x 3/8" Mesh For Up To 100', Add For >100' To 250', Add For >1,000', Deduct	19.95 2.30 1.10 -0.20	1.27
07 71 23 00-0341	EA			Cleanout Roof Drain Note: Includes removing dome and flushing.	160.22	
07 71 23 00-0342	LF			Cleanout Roof Gutters And Downspouts	1.87	
07 71 26				Reglets (07 71)		
07 71 26 00-0001				Counter Flashing With Reglet (07 71 26) Note: Includes reglet cut.		
07 71 26 00-0002				Galvanized Steel Counter Flashing With Reglet (07 71 26 00-0001)		
07 71 26 00-0003				Galvanized Steel Counter Flashing With Reglet (07 71 26 00-0002)		
07 71 26 00-0004	LF			28 Gauge, Up To 12" Wide, Galvanized Steel Counter Flashing With Reglet	16.81	5.22
07 71 26 00-0005	LF			26 Gauge, Up To 12" Wide, Galvanized Steel Counter Flashing With Reglet	16.99	5.22
07 71 26 00-0006	LF			24 Gauge, Up To 12" Wide, Galvanized Steel Counter Flashing With Reglet	17.29	5.22
07 71 26 00-0007	LF			22 Gauge, Up To 12" Wide, Galvanized Steel Counter Flashing With Reglet	18.45	5.22
07 71 26 00-0008	LF			20 Gauge, Up To 12" Wide, Galvanized Steel Counter Flashing With Reglet	19.11	5.22
07 71 26 00-0009	LF			18 Gauge, Up To 12" Wide, Galvanized Steel Counter Flashing With Reglet	19.87	5.22
07 71 26 00-0010				KYNAR 500® Finish, Galvanized Steel Counter Flashing With Reglet (07 71 26 00-0002)		
07 71 26 00-0011	LF			28 Gauge, Up To 12" Wide, KYNAR 500® Finish, Galvanized Steel Counter Flashing With Reglet.....	19.68	5.22
07 71 26 00-0012	LF			26 Gauge, Up To 12" Wide, KYNAR 500® Finish, Galvanized Steel Counter Flashing With Reglet.....	19.94	5.22
07 71 26 00-0013	LF			24 Gauge, Up To 12" Wide, KYNAR 500® Finish, Galvanized Steel Counter Flashing With Reglet.....	20.38	5.22
07 71 26 00-0014	LF			22 Gauge, Up To 12" Wide, KYNAR 500® Finish, Galvanized Steel Counter Flashing With Reglet.....	22.06	5.22

07	Thermal And Moisture Protection
07 70	Roof and Wall Specialties and Accessories
07 71	Roof Specialties



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 26 00-0015 LF 20 Gauge, Up To 12" Wide, KYNAR 500® Finish, Galvanized Steel Counter Flashing With Reglet.....	23.01	5.22
07 71 26 00-0016 LF 18 Gauge, Up To 12" Wide, KYNAR 500® Finish, Galvanized Steel Counter Flashing With Reglet.....	24.11	5.22
07 71 26 00-0017 Aluminum Counter Flashing With Reglet (07 71 26 00-0001)		
07 71 26 00-0018 KYNAR 500® Finish, Aluminum Counter Flashing With Reglet (07 71 26 00-0017)		
07 71 26 00-0019 LF 0.019" Thick, Up To 12" Wide, KYNAR 500® Finish, Aluminum Counter Flashing With Reglet.....	15.33	5.22
07 71 26 00-0020 LF 0.025" Thick, Up To 12" Wide, KYNAR 500® Finish, Aluminum Counter Flashing With Reglet.....	16.10	5.22
07 71 26 00-0021 LF 0.032" Thick, Up To 12" Wide, KYNAR 500® Finish, Aluminum Counter Flashing With Reglet.....	16.88	5.22
07 71 26 00-0022 LF 0.040" Thick, Up To 12" Wide, KYNAR 500® Finish, Aluminum Counter Flashing With Reglet.....	17.43	5.22
07 71 26 00-0023 LF 0.050" Thick, Up To 12" Wide, KYNAR 500® Finish, Aluminum Counter Flashing With Reglet.....	18.68	5.22
07 71 26 00-0024 LF 0.063" Thick, Up To 12" Wide, KYNAR 500® Finish, Aluminum Counter Flashing With Reglet.....	20.49	5.22
07 71 26 00-0025 Mill Finish, Aluminum Counter Flashing With Reglet (07 71 26 00-0017)		
07 71 26 00-0026 LF 0.019" Thick, Up To 12" Wide, Mill Finish, Aluminum Counter Flashing With Reglet.....	13.56	5.22
07 71 26 00-0027 LF 0.025" Thick, Up To 12" Wide, Mill Finish, Aluminum Counter Flashing With Reglet.....	14.05	5.22
07 71 26 00-0028 LF 0.032" Thick, Up To 12" Wide, Mill Finish, Aluminum Counter Flashing With Reglet.....	14.55	5.22
07 71 26 00-0029 LF 0.040" Thick, Up To 12" Wide, Mill Finish, Aluminum Counter Flashing With Reglet.....	14.90	5.22
07 71 26 00-0030 LF 0.050" Thick, Up To 12" Wide, Mill Finish, Aluminum Counter Flashing With Reglet.....	15.70	5.22
07 71 26 00-0031 LF 0.063" Thick, Up To 12" Wide, Mill Finish, Aluminum Counter Flashing With Reglet.....	16.85	5.22
07 71 26 00-0032 Clear Anodized Finish, Aluminum Counter Flashing With Reglet (07 71 26 00-0017)		
07 71 26 00-0033 LF 0.019" Thick, Up To 12" Wide, Clear Anodized Finish, Aluminum Counter Flashing With Reglet.....	14.97	5.22
07 71 26 00-0034 LF 0.025" Thick, Up To 12" Wide, Clear Anodized Finish, Aluminum Counter Flashing With Reglet.....	15.68	5.22
07 71 26 00-0035 LF 0.032" Thick, Up To 12" Wide, Clear Anodized Finish, Aluminum Counter Flashing With Reglet.....	16.40	5.22
07 71 26 00-0036 LF 0.040" Thick, Up To 12" Wide, Clear Anodized Finish, Aluminum Counter Flashing With Reglet.....	16.92	5.22
07 71 26 00-0037 LF 0.050" Thick, Up To 12" Wide, Clear Anodized Finish, Aluminum Counter Flashing With Reglet.....	18.07	5.22
07 71 26 00-0038 LF 0.063" Thick, Up To 12" Wide, Clear Anodized Finish, Aluminum Counter Flashing With Reglet.....	19.74	5.22
07 71 26 00-0039 Stainless Steel Counter Flashing With Reglet (07 71 26 00-0001)		
07 71 26 00-0040 Stainless Steel Counter Flashing With Reglet (07 71 26 00-0039)		
07 71 26 00-0041 LF 24 Gauge, Up To 12" Wide, Stainless Steel Counter Flashing With Reglet.....	20.18	5.22
07 71 26 00-0042 LF 22 Gauge, Up To 12" Wide, Stainless Steel Counter Flashing With Reglet.....	21.48	5.22
07 71 26 00-0043 LF 20 Gauge, Up To 12" Wide, Stainless Steel Counter Flashing With Reglet.....	21.91	5.22
07 71 26 00-0044 Copper Counter Flashing With Reglet (07 71 26 00-0001)		
07 71 26 00-0045 Copper Counter Flashing With Reglet (07 71 26 00-0044)		
07 71 26 00-0046 LF 16 Ounce, Up To 12" Wide, Copper Counter Flashing With Reglet.....	72.26	5.22
07 72 Roof Accessories (07 70)		
07 72 13 Manufactured Curbs (07 72)		
07 72 13 00-0001 Insulated Galvanized Steel, Prefabricated Roof Curbs (07 72 13)		
Note: Includes fasteners and sealants. Excludes flashing. See CSI section 07 62 13 00-0000 for flashing and trim.		
07 72 13 00-0002 Insulated Galvanized Steel, Prefabricated Roof Curbs (07 72 13 00-0001)		
Note: Includes pressure treated wood nailer, 1-1/2" rigid foam insulation, mill finish galvanized steel exterior wall construction, painted galvanized steel interior wall construction, installation clips and 3/16" wire mesh, 6" x 6" grids, safety security guard with installation clips.		
07 72 13 00-0003 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curbs (07 72 13 00-0002)		
07 72 13 00-0004 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curbs (07 72 13 00-0003)		
07 72 13 00-0005 EA 26" x 26" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	964.47	242.04
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>		
	66.19	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>		
	162.64	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>		
	-30.03	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>		
	14.77	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>		
	38.24	
07 72 13 00-0006 EA 26" x 38" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	979.76	242.04
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>		
	67.72	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>		
	165.70	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>		
	-36.86	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>		
	22.88	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>		
	44.21	
07 72 13 00-0007 EA 26" x 50" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,063.04	272.29
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>		
	72.27	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>		
	178.57	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>		
	-45.05	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>		
	29.62	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>		
	44.56	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0008 EA 26" x 74" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,121.67	272.29
For Sloped Roofs Up To 1 In 12 Pitch, Add	78.13	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	190.30	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	-60.05	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	35.94	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	50.87	
07 72 13 00-0009 EA 26" x 98" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,164.99	272.29
For Sloped Roofs Up To 1 In 12 Pitch, Add	82.46	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	198.96	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	19.52	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	124.06	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	136.86	
07 72 13 00-0010 EA 26" x 122" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,413.94	302.55
For Sloped Roofs Up To 1 In 12 Pitch, Add	103.58	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	244.97	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	-99.64	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	-3.65	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	36.89	
07 72 13 00-0011 EA 38" x 38" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	984.86	242.04
For Sloped Roofs Up To 1 In 12 Pitch, Add	68.23	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	166.72	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	11.20	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	96.54	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	134.94	
07 72 13 00-0012 EA 38" x 50" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,065.59	272.29
For Sloped Roofs Up To 1 In 12 Pitch, Add	72.52	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	179.08	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	-57.32	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	32.27	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	68.54	
07 72 13 00-0013 EA 38" x 62" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,098.73	272.29
For Sloped Roofs Up To 1 In 12 Pitch, Add	75.84	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	185.71	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	-70.97	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	22.88	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	52.75	
07 72 13 00-0014 EA 38" x 74" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,111.47	272.29
For Sloped Roofs Up To 1 In 12 Pitch, Add	77.11	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	188.26	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	19.84	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	122.25	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	149.98	
07 72 13 00-0015 EA 38" x 98" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,373.17	302.55
For Sloped Roofs Up To 1 In 12 Pitch, Add	99.50	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	236.82	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	25.60	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	138.68	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	181.35	
07 72 13 00-0016 EA 38" x 122" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,502.32	332.81
For Sloped Roofs Up To 1 In 12 Pitch, Add	108.63	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	258.86	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	31.36	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	161.51	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	212.71	
07 72 13 00-0017 EA 50" x 50" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,182.83	272.29
For Sloped Roofs Up To 1 In 12 Pitch, Add	84.25	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	202.53	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	-73.72	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	20.15	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	43.62	
07 72 13 00-0018 EA 50" x 62" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,291.61	302.55
For Sloped Roofs Up To 1 In 12 Pitch, Add	91.34	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	220.50	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	-88.72	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	-1.26	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	41.41	
07 72 13 00-0019 EA 50" x 74" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,319.64	302.55
For Sloped Roofs Up To 1 In 12 Pitch, Add	94.15	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	226.11	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	-105.10	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	-30.43	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	42.09	
07 72 13 00-0020 EA 50" x 86" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,448.80	332.81
For Sloped Roofs Up To 1 In 12 Pitch, Add	103.28	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	248.16	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	-122.85	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	-26.84	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	41.41	
07 72 13 00-0021 EA 51" x 99" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,555.02	363.07
For Sloped Roofs Up To 1 In 12 Pitch, Add	110.12	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	265.62	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	32.96	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	152.44	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	205.78	

07 Thermal And Moisture Protection
07 70 Roof and Wall Specialties and Accessories
07 72 Roof Accessories



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0022	EA		51" x 122" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,681.63	393.31
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	119.00	
			<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	287.16	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	-169.28	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	-34.87	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	37.67	
07 72 13 00-0023	EA		62" x 62" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,319.64	302.55
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	94.15	
			<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	226.11	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	26.24	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	96.65	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	177.72	
07 72 13 00-0024	EA		62-3/8" x 74-3/8" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,420.76	332.81
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	100.48	
			<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	242.55	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	-128.31	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	-23.77	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	42.35	
07 72 13 00-0025	EA		62" x 86" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,552.47	363.07
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	109.86	
			<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	265.11	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	-166.55	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	-62.01	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	-0.12	
07 72 13 00-0026	EA		62" x 98" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,577.96	363.07
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	112.41	
			<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	270.21	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	39.04	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	143.58	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	250.26	
07 72 13 00-0027	EA		62" x 122" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,709.67	393.31
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	121.80	
			<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	292.77	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	-210.22	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	-103.56	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	32.98	
07 72 13 00-0028			12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curbs <small>(07 72 13 00-0003)</small>		
07 72 13 00-0029	EA		26" x 26" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	997.60	242.04
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	69.51	
			<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	169.27	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	-30.03	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	14.77	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	38.24	
07 72 13 00-0030	EA		26" x 38" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,005.25	242.04
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	70.27	
			<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	170.80	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	-36.86	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	22.88	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	44.21	
07 72 13 00-0031	EA		26" x 50" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,088.53	272.29
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	74.82	
			<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	183.67	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	-45.05	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	29.62	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	44.56	
07 72 13 00-0032	EA		26" x 74" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,154.80	272.29
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	81.44	
			<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	196.92	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	-60.05	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	35.94	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	50.87	
07 72 13 00-0033	EA		26" x 98" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,203.22	272.29
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	86.29	
			<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	206.61	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	19.52	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	124.06	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	136.86	
07 72 13 00-0034	EA		26" x 122" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,444.53	302.55
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	106.63	
			<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	251.09	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	-99.64	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	-3.65	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	36.89	
07 72 13 00-0035	EA		38" x 38" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,007.79	242.04
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	70.52	
			<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	171.30	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	11.20	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	96.54	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	134.94	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0036 EA 38" x 50" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,134.41	272.29
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	79.40	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	192.65	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	-57.32	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	32.27	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	68.54	
07 72 13 00-0037 EA 38" x 62" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,185.38	272.29
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	84.50	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	203.04	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	-70.97	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	22.88	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	52.75	
07 72 13 00-0038 EA 38" x 74" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,244.00	272.29
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	90.36	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	214.76	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	19.84	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	122.25	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	149.98	
07 72 13 00-0039 EA 38" x 98" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,413.94	302.55
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	103.58	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	244.97	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	25.60	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	138.68	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	181.35	
07 72 13 00-0040 EA 38" x 122" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,553.29	332.81
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	113.73	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	269.06	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	31.36	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	161.51	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	212.71	
07 72 13 00-0041 EA 50" x 50" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,213.42	272.29
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	87.31	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	208.65	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	-73.72	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	20.15	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	43.62	
07 72 13 00-0042 EA 50" x 62" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,317.09	302.55
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	93.89	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	225.60	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	-88.72	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	-1.26	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	41.41	
07 72 13 00-0043 EA 50" x 74" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,357.87	302.55
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	97.97	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	233.76	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	-105.10	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	-30.43	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	42.09	
07 72 13 00-0044 EA 50" x 86" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,489.57	332.81
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	107.36	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	256.31	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	-122.85	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	-26.84	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	41.41	
07 72 13 00-0045 EA 51" x 99" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,603.45	363.07
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	114.96	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	275.31	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	32.96	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	152.44	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	205.78	
07 72 13 00-0046 EA 51" x 122" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,737.71	393.31
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	124.61	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	298.38	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	-169.28	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	-34.87	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	37.67	
07 72 13 00-0047 EA 62" x 62" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,357.87	302.55
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	97.97	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	233.76	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	26.24	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	96.65	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	177.72	
07 72 13 00-0048 EA 62-3/8" x 74-3/8" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,461.54	332.81
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	104.55	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	250.71	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	-128.31	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	-23.77	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	42.35	
07 72 13 00-0049 EA 62" x 86" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,595.80	363.07
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	114.20	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	273.78	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	-166.55	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	-62.01	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	-0.12	

07	Thermal And Moisture Protection
07 70	Roof and Wall Specialties and Accessories
07 72	Roof Accessories



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0050 EA 62" x 98" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,628.93	363.07
For Sloped Roofs Up To 1 In 12 Pitch, Add	117.51	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	280.40	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	39.04	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	143.58	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	250.26	
07 72 13 00-0051 EA 62" x 122" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,765.74	393.31
For Sloped Roofs Up To 1 In 12 Pitch, Add	127.41	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	303.98	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	-210.22	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	-103.56	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	32.98	
07 72 13 00-0052 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curbs (07 72 13 00-0003)		
07 72 13 00-0053 EA 26" x 26" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,015.44	242.04
For Sloped Roofs Up To 1 In 12 Pitch, Add	71.29	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	172.83	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	-30.03	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	14.77	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	38.24	
07 72 13 00-0054 EA 26" x 38" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,023.09	242.04
For Sloped Roofs Up To 1 In 12 Pitch, Add	72.05	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	174.36	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	-36.86	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	22.88	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	44.21	
07 72 13 00-0055 EA 26" x 50" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,101.28	272.29
For Sloped Roofs Up To 1 In 12 Pitch, Add	76.09	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	186.22	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	-45.05	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	29.62	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	44.56	
07 72 13 00-0056 EA 26" x 74" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,175.19	272.29
For Sloped Roofs Up To 1 In 12 Pitch, Add	83.48	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	201.00	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	-60.05	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	35.94	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	50.87	
07 72 13 00-0057 EA 26" x 98" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,231.26	272.29
For Sloped Roofs Up To 1 In 12 Pitch, Add	89.09	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	212.22	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	19.52	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	124.06	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	136.86	
07 72 13 00-0058 EA 26" x 122" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,480.21	302.55
For Sloped Roofs Up To 1 In 12 Pitch, Add	110.20	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	258.22	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	-99.64	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	-3.65	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	36.89	
07 72 13 00-0059 EA 38" x 38" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,023.09	242.04
For Sloped Roofs Up To 1 In 12 Pitch, Add	72.05	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	174.36	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	11.20	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	96.54	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	134.94	
07 72 13 00-0060 EA 38" x 50" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,101.28	272.29
For Sloped Roofs Up To 1 In 12 Pitch, Add	76.09	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	186.22	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	-57.32	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	32.27	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	68.54	
07 72 13 00-0061 EA 38" x 62" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,231.26	272.29
For Sloped Roofs Up To 1 In 12 Pitch, Add	89.09	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	212.22	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	-70.97	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	22.88	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	52.75	
07 72 13 00-0062 EA 38" x 74" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,292.43	272.29
For Sloped Roofs Up To 1 In 12 Pitch, Add	95.21	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	224.45	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	19.84	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	122.25	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	149.98	
07 72 13 00-0063 EA 38" x 98" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,444.53	302.55
For Sloped Roofs Up To 1 In 12 Pitch, Add	106.63	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	251.09	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	25.60	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	138.68	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	181.35	



Thermal And Moisture Protection	07
Roof and Wall Specialties and Accessories	07 70
Roof Accessories	07 72

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0064 EA 38" x 122" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,586.43	332.81
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	117.04	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	275.69	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	31.36	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	161.51	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	212.71	
07 72 13 00-0065 EA 50" x 50" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,233.81	272.29
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	89.34	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	212.73	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	-73.72	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	20.15	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	43.62	
07 72 13 00-0066 EA 50" x 62" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,249.22	302.55
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	87.10	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	212.03	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	-88.72	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	-1.26	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	41.41	
07 72 13 00-0067 EA 50" x 74" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,383.36	302.55
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	100.52	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	238.85	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	-105.10	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	-30.43	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	42.09	
07 72 13 00-0068 EA 50" x 86" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,520.16	332.81
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	110.42	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	262.43	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	-122.85	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	-26.84	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	41.41	
07 72 13 00-0069 EA 51" x 99" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,634.03	363.07
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	118.02	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	281.42	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	32.96	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	152.44	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	205.78	
07 72 13 00-0070 EA 51" x 122" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,773.39	393.31
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	128.17	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	305.51	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	-169.28	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	-34.87	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	37.67	
07 72 13 00-0071 EA 62" x 62" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,383.36	302.55
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	100.52	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	238.85	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	26.24	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	96.65	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	177.72	
07 72 13 00-0072 EA 62-3/8" x 74-3/8" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,489.57	332.81
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	107.36	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	256.31	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	-128.31	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	-23.77	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	42.35	
07 72 13 00-0073 EA 62" x 86" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,628.93	363.07
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	117.51	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	280.40	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	-166.55	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	-62.01	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	-0.12	
07 72 13 00-0074 EA 62" x 98" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,662.07	363.07
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	120.82	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	287.03	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	39.04	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	143.58	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	250.26	
07 72 13 00-0075 EA 62" x 122" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,803.97	393.31
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	131.23	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	311.63	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	-210.22	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	-103.56	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	32.98	

07 72 13 00-0076 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curbs (07 72 13 00-0002)

07 72 13 00-0077 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curbs (07 72 13 00-0076)

07 Thermal And Moisture Protection
07 70 Roof and Wall Specialties and Accessories
07 72 Roof Accessories



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0078	EA	26" x 26" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	936.43	242.04
		<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	63.39	
		<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	157.03	
		<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	-30.03	
		<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	14.77	
		<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	38.24	
07 72 13 00-0079	EA	26" x 38" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	969.56	242.04
		<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	66.70	
		<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	163.66	
		<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	-36.86	
		<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	22.88	
		<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	44.21	
07 72 13 00-0080	EA	26" x 50" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,108.92	272.29
		<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	76.86	
		<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	187.75	
		<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	-45.05	
		<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	29.62	
		<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	44.56	
07 72 13 00-0081	EA	26" x 74" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,185.38	272.29
		<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	84.50	
		<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	203.04	
		<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	-60.05	
		<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	35.94	
		<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	50.87	
07 72 13 00-0082	EA	26" x 98" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,241.45	272.29
		<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	90.11	
		<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	214.25	
		<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	19.52	
		<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	124.06	
		<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	136.86	
07 72 13 00-0083	EA	26" x 122" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,520.99	302.55
		<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	114.28	
		<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	266.38	
		<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	-99.64	
		<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	-3.65	
		<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	36.89	
07 72 13 00-0084	EA	38" x 38" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,030.73	242.04
		<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	72.82	
		<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	175.89	
		<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	11.20	
		<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	96.54	
		<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	134.94	
07 72 13 00-0085	EA	38" x 50" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,129.31	272.29
		<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	78.89	
		<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	191.83	
		<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	-57.32	
		<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	32.27	
		<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	68.54	
07 72 13 00-0086	EA	38" x 62" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,154.80	272.29
		<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	81.44	
		<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	196.92	
		<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	-70.97	
		<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	22.88	
		<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	52.75	
07 72 13 00-0087	EA	38" x 74" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,177.74	272.29
		<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	83.74	
		<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	201.51	
		<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	19.84	
		<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	122.25	
		<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	149.98	
07 72 13 00-0088	EA	38" x 98" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,459.82	302.55
		<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	108.16	
		<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	254.15	
		<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	25.60	
		<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	138.68	
		<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	181.35	
07 72 13 00-0089	EA	38" x 122" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,604.27	332.81
		<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	118.83	
		<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	279.25	
		<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	31.36	
		<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	161.51	
		<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	212.71	
07 72 13 00-0090	EA	50" x 50" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,244.00	272.29
		<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	90.36	
		<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	214.76	
		<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	-73.72	
		<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	20.15	
		<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	43.62	
07 72 13 00-0091	EA	50" x 62" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,355.32	302.55
		<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	97.71	
		<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	233.25	
		<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	-88.72	
		<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	-1.26	
		<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	41.41	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0092 EA 50" x 74" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,396.10	302.55
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	101.79	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	241.40	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	-105.10	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	-30.43	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	42.09	
07 72 13 00-0093 EA 50" x 86" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,535.45	332.81
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	111.94	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	265.49	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	-122.85	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	-26.84	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	41.41	
07 72 13 00-0094 EA 51" x 99" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,649.32	363.07
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	119.55	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	284.48	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	32.96	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	152.44	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	205.78	
07 72 13 00-0095 EA 51" x 122" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,791.23	393.31
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	129.96	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	309.08	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	-169.28	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	-34.87	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	37.67	
07 72 13 00-0096 EA 62" x 62" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,396.10	302.55
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	101.79	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	241.40	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	26.24	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	96.65	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	177.72	
07 72 13 00-0097 EA 62-3/8" x 74-3/8" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,502.32	332.81
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	108.63	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	258.86	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	-128.31	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	-23.77	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	42.35	
07 72 13 00-0098 EA 62" x 86" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,644.22	363.07
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	119.04	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	283.46	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	-166.55	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	-62.01	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	-0.12	
07 72 13 00-0099 EA 62" x 98" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,679.91	363.07
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	122.61	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	290.60	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	39.04	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	143.58	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	250.26	
07 72 13 00-0100 EA 62" x 122" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,824.36	393.31
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	133.27	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	315.71	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	-210.22	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	-103.56	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	32.98	
07 72 13 00-0101 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curbs <small>(07 72 13 00-0076)</small>		
07 72 13 00-0102 EA 26" x 26" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	959.37	242.04
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	65.68	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	161.62	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	-30.03	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	14.77	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	38.24	
07 72 13 00-0103 EA 26" x 38" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	997.60	242.04
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	69.51	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	169.27	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	-36.86	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	22.88	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	44.21	
07 72 13 00-0104 EA 26" x 50" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,147.15	272.29
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	80.68	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	195.39	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	-45.05	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	29.62	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	44.56	
07 72 13 00-0105 EA 26" x 74" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,231.26	272.29
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	89.09	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	212.22	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	-60.05	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	35.94	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	50.87	

07 Thermal And Moisture Protection
07 70 Roof and Wall Specialties and Accessories
07 72 Roof Accessories



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0106	EA	26" x 98" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,300.07	272.29
		<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	95.97	
		<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	225.98	
		<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	19.52	
		<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	124.06	
		<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	136.86	
07 72 13 00-0107	EA	26" x 122" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,531.18	302.55
		<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	115.30	
		<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	268.42	
		<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	-99.64	
		<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	-3.65	
		<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	36.89	
07 72 13 00-0108	EA	38" x 38" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,063.87	242.04
		<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	76.13	
		<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	182.52	
		<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	11.20	
		<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	96.54	
		<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	134.94	
07 72 13 00-0109	EA	38" x 50" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,170.09	272.29
		<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	82.97	
		<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	199.98	
		<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	-57.32	
		<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	32.27	
		<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	68.54	
07 72 13 00-0110	EA	38" x 62" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,203.22	272.29
		<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	86.29	
		<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	206.61	
		<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	-70.97	
		<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	22.88	
		<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	52.75	
07 72 13 00-0111	EA	38" x 74" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,233.81	272.29
		<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	89.34	
		<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	212.73	
		<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	19.84	
		<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	122.25	
		<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	149.98	
07 72 13 00-0112	EA	38" x 98" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,520.99	302.55
		<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	114.28	
		<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	266.38	
		<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	25.60	
		<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	138.68	
		<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	181.35	
07 72 13 00-0113	EA	38" x 122" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,678.18	332.81
		<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	126.22	
		<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	294.04	
		<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	31.36	
		<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	161.51	
		<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	212.71	
07 72 13 00-0114	EA	50" x 50" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,289.88	272.29
		<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	94.95	
		<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	223.94	
		<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	-73.72	
		<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	20.15	
		<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	43.62	
07 72 13 00-0115	EA	50" x 62" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,406.30	302.55
		<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	102.81	
		<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	243.44	
		<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	-88.72	
		<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	-1.26	
		<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	41.41	
07 72 13 00-0116	EA	50" x 74" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,454.72	302.55
		<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	107.65	
		<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	253.13	
		<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	-105.10	
		<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	-30.43	
		<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	42.09	
07 72 13 00-0117	EA	50" x 86" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,596.62	332.81
		<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	118.06	
		<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	277.72	
		<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	-122.85	
		<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	-26.84	
		<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	41.41	
07 72 13 00-0118	EA	51" x 99" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,720.69	363.07
		<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	126.69	
		<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	298.76	
		<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	32.96	
		<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	152.44	
		<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	205.78	
07 72 13 00-0119	EA	51" x 122" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,872.79	393.31
		<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	138.11	
		<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	325.39	
		<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	-169.28	
		<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	-34.87	
		<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	37.67	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0120 EA 62" x 62" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,454.72	302.55
For Sloped Roofs Up To 1 In 12 Pitch, Add	107.65	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	253.13	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	26.24	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	96.65	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	177.72	
07 72 13 00-0121 EA 62-3/8" x 74-3/8" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,568.58	332.81
For Sloped Roofs Up To 1 In 12 Pitch, Add	115.26	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	272.12	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	-128.31	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	-23.77	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	42.35	
07 72 13 00-0122 EA 62" x 86" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,715.59	363.07
For Sloped Roofs Up To 1 In 12 Pitch, Add	126.18	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	297.74	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	-166.55	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	-62.01	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	-0.12	
07 72 13 00-0123 EA 62" x 98" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,753.82	363.07
For Sloped Roofs Up To 1 In 12 Pitch, Add	130.00	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	305.38	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	39.04	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	143.58	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	250.26	
07 72 13 00-0124 EA 62" x 122" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,911.02	393.31
For Sloped Roofs Up To 1 In 12 Pitch, Add	141.94	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	333.04	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	-210.22	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	-103.56	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	32.98	
07 72 13 00-0125 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curbs <small>(07 72 13 00-0076)</small>		
07 72 13 00-0126 EA 26" x 26" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	977.21	242.04
For Sloped Roofs Up To 1 In 12 Pitch, Add	67.47	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	165.19	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	-30.03	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	14.77	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	38.24	
07 72 13 00-0127 EA 26" x 38" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,017.99	242.04
For Sloped Roofs Up To 1 In 12 Pitch, Add	71.54	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	173.34	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	-36.86	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	22.88	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	44.21	
07 72 13 00-0128 EA 26" x 50" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,170.09	272.29
For Sloped Roofs Up To 1 In 12 Pitch, Add	82.97	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	199.98	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	-45.05	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	29.62	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	44.56	
07 72 13 00-0129 EA 26" x 74" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,261.84	272.29
For Sloped Roofs Up To 1 In 12 Pitch, Add	92.15	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	218.33	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	-60.05	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	35.94	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	50.87	
07 72 13 00-0130 EA 26" x 98" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,338.30	272.29
For Sloped Roofs Up To 1 In 12 Pitch, Add	99.79	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	233.62	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	19.52	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	124.06	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	136.86	
07 72 13 00-0131 EA 26" x 122" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,612.74	302.55
For Sloped Roofs Up To 1 In 12 Pitch, Add	123.46	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	284.73	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	-99.64	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	-3.65	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	36.89	
07 72 13 00-0132 EA 38" x 38" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,089.35	242.04
For Sloped Roofs Up To 1 In 12 Pitch, Add	78.68	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	187.62	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	11.20	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	96.54	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	134.94	
07 72 13 00-0133 EA 38" x 50" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,213.42	272.29
For Sloped Roofs Up To 1 In 12 Pitch, Add	87.31	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	208.65	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	-57.32	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	32.27	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	68.54	

07 Thermal And Moisture Protection
07 70 Roof and Wall Specialties and Accessories
07 72 Roof Accessories



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0134	EA	38" x 62" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	1,259.29 91.89 217.82 -70.97 22.88 52.75	272.29
07 72 13 00-0135	EA	38" x 74" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	1,269.49 92.91 219.86 19.84 122.25 149.98	272.29
07 72 13 00-0136	EA	38" x 98" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	1,566.87 118.87 275.56 25.60 138.68 181.35	302.55
07 72 13 00-0137	EA	38" x 122" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	1,729.15 131.31 304.23 31.36 161.51 212.71	332.81
07 72 13 00-0138	EA	50" x 50" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	1,320.46 98.01 230.06 -73.72 20.15 43.62	272.29
07 72 13 00-0139	EA	50" x 62" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	1,328.16 95.00 227.81 -88.72 -1.26 41.41	302.55
07 72 13 00-0140	EA	50" x 74" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	1,492.95 111.48 260.77 -105.10 -30.43 42.09	302.55
07 72 13 00-0141	EA	50" x 86" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	1,642.50 122.65 286.90 -122.85 -26.84 41.41	332.81
07 72 13 00-0142	EA	51" x 99" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	1,766.56 131.27 307.93 32.96 152.44 205.78	363.07
07 72 13 00-0143	EA	51" x 122" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	1,928.86 143.72 336.61 -169.28 -34.87 37.67	393.31
07 72 13 00-0144	EA	62" x 62" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	1,492.95 111.48 260.77 26.24 96.65 177.72	302.55
07 72 13 00-0145	EA	62-3/8" x 74-3/8" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	1,614.46 119.85 281.29 -128.31 -23.77 42.35	332.81
07 72 13 00-0146	EA	62" x 86" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	1,758.92 130.51 306.40 -166.55 -62.01 -0.12	363.07
07 72 13 00-0147	EA	62" x 98" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	1,804.79 135.10 315.58 39.04 143.58 250.26	363.07



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0148 EA 62" x 122" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	1,967.09	393.31
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	147.54	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	344.25	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	-210.22	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	-103.56	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	32.98	
07 72 13 00-0149 Insulated Galvanized Steel, Adjustable Width Prefabricated Roof Curbs <small>(07 72 13 00-0001)</small>		
Note: Includes 1" rigid foam insulation, mill finish galvanized steel exterior wall construction, painted galvanized steel interior wall construction and installation clips.		
07 72 13 00-0150 6" Height, 18 Gauge, Insulated Galvanized Steel, Adjustable Width Prefabricated Roof Curbs <small>(07 72 13 00-0149)</small>		
07 72 13 00-0151 EA 14-1/2" To 23" Square Outside Dimensions, 6" Height, 18 Gauge, Insulated Galvanized Steel, Adjustable Width Prefabricated Roof Curb.....	919.79	242.04
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	61.72	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	153.70	
07 72 13 00-0152 EA 23-1/2" To 32" Square Outside Dimensions, 6" Height, 18 Gauge, Insulated Galvanized Steel, Adjustable Width Prefabricated Roof Curb.....	1,059.49	242.04
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	75.69	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	181.64	
07 72 13 00-0153 EA 32-1/2" To 41" Square Outside Dimensions, 6" Height, 18 Gauge, Insulated Galvanized Steel, Adjustable Width Prefabricated Roof Curb.....	1,212.82	272.29
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	87.25	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	208.53	
07 72 13 00-0154 EA 41" To 49-1/2" Square Outside Dimensions, 6" Height, 18 Gauge, Insulated Galvanized Steel, Adjustable Width Prefabricated Roof Curb.....	1,324.37	272.29
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	98.40	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	230.84	
07 72 13 00-0155 EA 50" To 58-1/2" Square Outside Dimensions, 6" Height, 18 Gauge, Insulated Galvanized Steel, Adjustable Width Prefabricated Roof Curb.....	1,464.87	302.55
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	108.67	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	255.16	
07 72 13 00-0156 12" Height, 18 Gauge, Insulated Galvanized Steel, Adjustable Width Prefabricated Roof Curbs <small>(07 72 13 00-0149)</small>		
07 72 13 00-0157 EA 14-1/2" To 23" Square Outside Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Adjustable Width Prefabricated Roof Curb.....	1,124.35	242.04
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	82.18	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	194.62	
07 72 13 00-0158 EA 23-1/2" To 32" Square Outside Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Adjustable Width Prefabricated Roof Curb.....	1,313.95	242.04
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	101.14	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	232.54	
07 72 13 00-0159 EA 32-1/2" To 41" Square Outside Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Adjustable Width Prefabricated Roof Curb.....	1,394.93	272.29
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	105.46	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	244.95	
07 72 13 00-0160 EA 41" To 49-1/2" Square Outside Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Adjustable Width Prefabricated Roof Curb.....	1,466.21	272.29
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	112.58	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	259.21	
07 72 13 00-0161 EA 50" To 58-1/2" Square Outside Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Adjustable Width Prefabricated Roof Curb.....	1,641.64	302.55
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	126.35	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	290.51	
07 72 13 00-0162 EA 64" To 72-1/2" Square Outside Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Adjustable Width Prefabricated Roof Curb.....	2,594.37	332.81
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	217.84	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	477.27	
07 72 13 00-0163 18" To 24" Height, 16 Gauge, Ventilated Galvanized Steel, Adjustable Width Prefabricated Roof Curbs <small>(07 72 13 00-0149)</small>		
07 72 13 00-0164 EA 17-1/2" To 22" Square Outside Dimensions, 24" Height, 16 Gauge, Ventilated Galvanized Steel, Adjustable Width Prefabricated Roof Curb.....	1,460.42	242.04
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	115.79	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	261.83	
07 72 13 00-0165 EA 24" To 29" Square Outside Dimensions, 24" Height, 16 Gauge, Ventilated Galvanized Steel, Adjustable Width Prefabricated Roof Curb.....	1,654.29	242.04
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	135.17	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	300.60	
07 72 13 00-0166 EA 31" To 46" Square Outside Dimensions, 18" Height, 16 Gauge, Insulated Galvanized Steel, Adjustable Width Prefabricated Roof Curb.....	1,960.16	272.29
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	161.98	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	358.00	

07 Thermal And Moisture Protection
07 70 Roof and Wall Specialties and Accessories
07 72 Roof Accessories



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0167 Wood, Prefabricated Roof Curbs <small>(07 72 13)</small> Note: Includes Douglas fir construction, galvanized steel corner straps, fasteners, sealants, and installation clips. Includes 3/16" wire mesh, 6" x 6" grids, safety security guard with installation clips. Excludes flashing. See CSI section 07 62 13 00-0000 for flashing and trim.		
07 72 13 00-0168 Wood Framed, Prefabricated Roof Curbs <small>(07 72 13 00-0167)</small>		
07 72 13 00-0169 2 x 6 Wood Framed, Prefabricated Roof Curbs <small>(07 72 13 00-0169)</small>		
07 72 13 00-0170 EA 26" x 26" Outside Frame Dimensions, 2 x 6 Wood Framed, Prefabricated Roof Curb For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	777.91 47.54 125.33 -30.03 14.77 38.24	242.04
07 72 13 00-0171 EA 26" x 50" Outside Frame Dimensions, 2 x 6 Wood Framed, Prefabricated Roof Curb For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	866.35 52.60 139.23 -45.05 29.62 44.56	272.29
07 72 13 00-0172 EA 26" x 98" Outside Frame Dimensions, 2 x 6 Wood Framed, Prefabricated Roof Curb For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	921.83 58.15 150.33 19.52 124.06 136.86	272.29
07 72 13 00-0173 EA 38" x 62" Outside Frame Dimensions, 2 x 6 Wood Framed, Prefabricated Roof Curb For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	915.42 57.51 149.05 -70.97 22.88 52.75	272.29
07 72 13 00-0174 EA 38" x 74" Outside Frame Dimensions, 2 x 6 Wood Framed, Prefabricated Roof Curb For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	930.36 59.00 152.04 19.84 122.25 149.98	272.29
07 72 13 00-0175 EA 38" x 98" Outside Frame Dimensions, 2 x 6 Wood Framed, Prefabricated Roof Curb For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	1,042.27 66.41 170.64 25.60 138.68 181.35	302.55
07 72 13 00-0176 EA 50" x 50" Outside Frame Dimensions, 2 x 6 Wood Framed, Prefabricated Roof Curb For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	926.09 58.57 151.18 -73.72 20.15 43.62	272.29
07 72 13 00-0177 EA 50" x 74" Outside Frame Dimensions, 2 x 6 Wood Framed, Prefabricated Roof Curb For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	1,061.47 68.33 174.48 -105.10 -30.43 42.09	302.55
07 72 13 00-0178 EA 51" x 99" Outside Frame Dimensions, 2 x 6 Wood Framed, Prefabricated Roof Curb For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	1,212.74 75.89 197.17 32.96 152.44 205.78	363.07
07 72 13 00-0179 EA 62" x 62" Outside Frame Dimensions, 2 x 6 Wood Framed, Prefabricated Roof Curb For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	1,023.07 64.49 166.80 26.24 96.65 177.72	302.55
07 72 13 00-0180 EA 62-3/8" x 74-3/8" Outside Frame Dimensions, 2 x 6 Wood Framed, Prefabricated Roof Curb For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	1,124.30 70.83 183.26 -128.31 -23.77 42.35	332.81
07 72 13 00-0181 EA 62" x 98" Outside Frame Dimensions, 2 x 6 Wood Framed, Prefabricated Roof Curb For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	1,255.41 80.16 205.70 39.04 143.58 250.26	363.07
07 72 13 00-0182 2 x 8 Wood Framed, Prefabricated Roof Curbs <small>(07 72 13 00-0182)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0183 EA 26" x 26" Outside Frame Dimensions, 2 x 8 Wood Framed, Prefabricated Roof Curb .....790.71		242.04
For Sloped Roofs Up To 1 In 12 Pitch, Add	48.82	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	127.89	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	-30.03	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	14.77	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	38.24	
07 72 13 00-0184 EA 26" x 50" Outside Frame Dimensions, 2 x 8 Wood Framed, Prefabricated Roof Curb .....881.29		272.29
For Sloped Roofs Up To 1 In 12 Pitch, Add	54.09	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	142.22	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	-45.05	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	29.62	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	44.56	
07 72 13 00-0185 EA 26" x 98" Outside Frame Dimensions, 2 x 8 Wood Framed, Prefabricated Roof Curb .....962.36		272.29
For Sloped Roofs Up To 1 In 12 Pitch, Add	62.20	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	158.44	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	19.52	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	124.06	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	136.86	
07 72 13 00-0186 EA 38" x 62" Outside Frame Dimensions, 2 x 8 Wood Framed, Prefabricated Roof Curb .....941.03		272.29
For Sloped Roofs Up To 1 In 12 Pitch, Add	60.07	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	154.17	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	-70.97	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	22.88	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	52.75	
07 72 13 00-0187 EA 38" x 74" Outside Frame Dimensions, 2 x 8 Wood Framed, Prefabricated Roof Curb .....962.36		272.29
For Sloped Roofs Up To 1 In 12 Pitch, Add	62.20	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	158.44	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	19.84	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	122.25	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	149.98	
07 72 13 00-0188 EA 38" x 98" Outside Frame Dimensions, 2 x 8 Wood Framed, Prefabricated Roof Curb .....1,074.27		302.55
For Sloped Roofs Up To 1 In 12 Pitch, Add	69.61	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	177.04	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	25.60	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	138.68	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	181.35	
07 72 13 00-0189 EA 50" x 50" Outside Frame Dimensions, 2 x 8 Wood Framed, Prefabricated Roof Curb .....949.56		272.29
For Sloped Roofs Up To 1 In 12 Pitch, Add	60.92	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	155.88	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	-73.72	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	20.15	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	43.62	
07 72 13 00-0190 EA 50" x 74" Outside Frame Dimensions, 2 x 8 Wood Framed, Prefabricated Roof Curb .....1,091.34		302.55
For Sloped Roofs Up To 1 In 12 Pitch, Add	71.32	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	180.45	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	-105.10	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	-30.43	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	42.09	
07 72 13 00-0191 EA 51" x 99" Outside Frame Dimensions, 2 x 8 Wood Framed, Prefabricated Roof Curb .....1,242.61		363.07
For Sloped Roofs Up To 1 In 12 Pitch, Add	78.88	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	203.14	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	32.96	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	152.44	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	205.78	
07 72 13 00-0192 EA 62" x 62" Outside Frame Dimensions, 2 x 8 Wood Framed, Prefabricated Roof Curb .....1,046.54		302.55
For Sloped Roofs Up To 1 In 12 Pitch, Add	66.84	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	171.49	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	26.24	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	96.65	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	177.72	
07 72 13 00-0193 EA 62-3/8" x 74-3/8" Outside Frame Dimensions, 2 x 8 Wood Framed, Prefabricated Roof Curb .....1,152.03		332.81
For Sloped Roofs Up To 1 In 12 Pitch, Add	73.60	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	188.81	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	-128.31	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	-23.77	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	42.35	
07 72 13 00-0194 EA 62" x 98" Outside Frame Dimensions, 2 x 8 Wood Framed, Prefabricated Roof Curb .....1,285.28		363.07
For Sloped Roofs Up To 1 In 12 Pitch, Add	83.15	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	211.67	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	39.04	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	143.58	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	250.26	
07 72 13 00-0195 2 x 10 Wood Framed, Prefabricated Roof Curbs (07 72 13 00-0188)		
07 72 13 00-0196 EA 26" x 26" Outside Frame Dimensions, 2 x 10 Wood Framed, Prefabricated Roof Curb .....799.25		242.04
For Sloped Roofs Up To 1 In 12 Pitch, Add	49.67	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	129.60	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	-30.03	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	14.77	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	38.24	

07 Thermal And Moisture Protection
07 70 Roof and Wall Specialties and Accessories
07 72 Roof Accessories



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0197 EA 26" x 50" Outside Frame Dimensions, 2 x 10 Wood Framed, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	896.22 55.59 145.21 -45.05 29.62 44.56	272.29
07 72 13 00-0198 EA 26" x 98" Outside Frame Dimensions, 2 x 10 Wood Framed, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	966.63 62.63 159.29 19.52 124.06 136.86	272.29
07 72 13 00-0199 EA 38" x 62" Outside Frame Dimensions, 2 x 10 Wood Framed, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	955.96 61.56 157.16 -70.97 22.88 52.75	272.29
07 72 13 00-0200 EA 38" x 74" Outside Frame Dimensions, 2 x 10 Wood Framed, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	981.56 64.12 162.28 19.84 122.25 149.98	272.29
07 72 13 00-0201 EA 38" x 98" Outside Frame Dimensions, 2 x 10 Wood Framed, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	1,095.61 71.74 181.30 25.60 138.68 181.35	302.55
07 72 13 00-0202 EA 50" x 50" Outside Frame Dimensions, 2 x 10 Wood Framed, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	964.50 62.41 158.86 -73.72 20.15 43.62	272.29
07 72 13 00-0203 EA 50" x 74" Outside Frame Dimensions, 2 x 10 Wood Framed, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	1,110.54 73.24 184.29 -105.10 -30.43 42.09	302.55
07 72 13 00-0204 EA 51" x 99" Outside Frame Dimensions, 2 x 10 Wood Framed, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	1,261.81 80.80 206.98 32.96 152.44 205.78	363.07
07 72 13 00-0205 EA 62" x 62" Outside Frame Dimensions, 2 x 10 Wood Framed, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	1,061.47 68.33 174.48 26.24 96.65 177.72	302.55
07 72 13 00-0206 EA 62-3/8" x 74-3/8" Outside Frame Dimensions, 2 x 10 Wood Framed, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	1,169.10 75.31 192.22 -128.31 -23.77 42.35	332.81
07 72 13 00-0207 EA 62" x 98" Outside Frame Dimensions, 2 x 10 Wood Framed, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	1,306.61 85.28 215.94 39.04 143.58 250.26	363.07
07 72 13 00-0208 2 x 12 Wood Framed, Prefabricated Roof Curbs (07 72 13 00-0168)		
07 72 13 00-0209 EA 26" x 26" Outside Frame Dimensions, 2 x 12 Wood Framed, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	809.92 50.74 131.73 -30.03 14.77 38.24	242.04
07 72 13 00-0210 EA 26" x 50" Outside Frame Dimensions, 2 x 12 Wood Framed, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	904.76 56.44 146.92 -45.05 29.62 44.56	272.29



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0211 EA 26" x 98" Outside Frame Dimensions, 2 x 12 Wood Framed, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	985.83 64.55 163.13 19.52 124.06 136.86	272.29
07 72 13 00-0212 EA 38" x 74" Outside Frame Dimensions, 2 x 12 Wood Framed, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	1,002.90 66.25 166.54 19.84 122.25 149.98	272.29
07 72 13 00-0213 EA 38" x 98" Outside Frame Dimensions, 2 x 12 Wood Framed, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	1,119.08 74.09 186.00 25.60 138.68 181.35	302.55
07 72 13 00-0214 EA 50" x 50" Outside Frame Dimensions, 2 x 12 Wood Framed, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	983.70 64.33 162.70 -73.72 20.15 43.62	272.29
07 72 13 00-0215 EA 50" x 74" Outside Frame Dimensions, 2 x 12 Wood Framed, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	1,131.88 75.37 188.56 -105.10 -30.43 42.09	302.55
07 72 13 00-0216 EA 51" x 99" Outside Frame Dimensions, 2 x 12 Wood Framed, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	1,287.41 83.36 212.10 32.96 152.44 205.78	363.07
07 72 13 00-0217 EA 62-3/8" x 74-3/8" Outside Frame Dimensions, 2 x 12 Wood Framed, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	1,186.17 77.02 195.63 -128.31 -23.77 42.35	332.81
07 72 13 00-0218 Wood Framed With Liner, Prefabricated Roof Curbs (07 72 13 00-0167)		
07 72 13 00-0219 2 x 6 Wood Framed With Liner, Prefabricated Roof Curbs (07 72 13 00-0218)		
07 72 13 00-0220 EA 26" x 26" Outside Frame Dimensions, 2 x 6 Wood Framed With Liner, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	794.98 49.24 128.74 -30.03 14.77 38.24	242.04
07 72 13 00-0221 EA 26" x 50" Outside Frame Dimensions, 2 x 6 Wood Framed With Liner, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	881.29 54.09 142.22 -45.05 29.62 44.56	272.29
07 72 13 00-0222 EA 26" x 98" Outside Frame Dimensions, 2 x 6 Wood Framed With Liner, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	949.56 60.92 155.88 19.52 124.06 136.86	272.29
07 72 13 00-0223 EA 38" x 62" Outside Frame Dimensions, 2 x 6 Wood Framed With Liner, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	934.63 59.43 152.89 -70.97 22.88 52.75	272.29
07 72 13 00-0224 EA 38" x 74" Outside Frame Dimensions, 2 x 6 Wood Framed With Liner, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	953.83 61.35 156.73 19.84 122.25 149.98	272.29
07 72 13 00-0225 EA 38" x 98" Outside Frame Dimensions, 2 x 6 Wood Framed With Liner, Prefabricated Roof Curb <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	1,067.87 68.97 175.76 25.60 138.68 181.35	302.55

07 Thermal And Moisture Protection
07 70 Roof and Wall Specialties and Accessories
07 72 Roof Accessories



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0226	EA	50" x 50" Outside Frame Dimensions, 2 x 6 Wood Framed With Liner, Prefabricated Roof Curb	945.29	272.29
		<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	60.49	
		<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	155.02	
		<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	-73.72	
		<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	20.15	
		<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	43.62	
07 72 13 00-0227	EA	50" x 74" Outside Frame Dimensions, 2 x 6 Wood Framed With Liner, Prefabricated Roof Curb	1,084.94	302.55
		<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	70.68	
		<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	179.17	
		<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	-105.10	
		<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	-30.43	
		<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	42.09	
07 72 13 00-0228	EA	51" x 99" Outside Frame Dimensions, 2 x 6 Wood Framed With Liner, Prefabricated Roof Curb	1,236.21	363.07
		<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	78.24	
		<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	201.86	
		<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	32.96	
		<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	152.44	
		<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	205.78	
07 72 13 00-0229	EA	62" x 62" Outside Frame Dimensions, 2 x 6 Wood Framed With Liner, Prefabricated Roof Curb	1,048.67	302.55
		<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	67.05	
		<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	171.92	
		<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	26.24	
		<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	96.65	
		<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	177.72	
07 72 13 00-0230	EA	62-3/8" x 74-3/8" Outside Frame Dimensions, 2 x 6 Wood Framed With Liner, Prefabricated Roof Curb	1,147.77	332.81
		<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	73.18	
		<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	187.95	
		<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	-128.31	
		<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	-23.77	
		<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	42.35	
07 72 13 00-0231	EA	62" x 98" Outside Frame Dimensions, 2 x 6 Wood Framed With Liner, Prefabricated Roof Curb	1,285.28	363.07
		<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	83.15	
		<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	211.67	
		<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	39.04	
		<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	143.58	
		<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	250.26	
07 72 13 00-0232		2 x 8 Wood Framed With Liner, Prefabricated Roof Curbs <small>(07 72 13 00-0218)</small>		
07 72 13 00-0233	EA	26" x 26" Outside Frame Dimensions, 2 x 8 Wood Framed With Liner, Prefabricated Roof Curb	809.92	242.04
		<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	50.74	
		<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	131.73	
		<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	-30.03	
		<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	14.77	
		<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	38.24	
07 72 13 00-0234	EA	26" x 50" Outside Frame Dimensions, 2 x 8 Wood Framed With Liner, Prefabricated Roof Curb	898.36	272.29
		<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	55.80	
		<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	145.64	
		<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	-45.05	
		<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	29.62	
		<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	44.56	
07 72 13 00-0235	EA	26" x 98" Outside Frame Dimensions, 2 x 8 Wood Framed With Liner, Prefabricated Roof Curb	975.16	272.29
		<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	63.48	
		<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	161.00	
		<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	19.52	
		<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	124.06	
		<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	136.86	
07 72 13 00-0236	EA	38" x 62" Outside Frame Dimensions, 2 x 8 Wood Framed With Liner, Prefabricated Roof Curb	960.23	272.29
		<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	61.99	
		<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	158.01	
		<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	-70.97	
		<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	22.88	
		<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	52.75	
07 72 13 00-0237	EA	38" x 74" Outside Frame Dimensions, 2 x 8 Wood Framed With Liner, Prefabricated Roof Curb	987.96	272.29
		<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	64.76	
		<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	163.56	
		<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	19.84	
		<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	122.25	
		<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	149.98	
07 72 13 00-0238	EA	38" x 98" Outside Frame Dimensions, 2 x 8 Wood Framed With Liner, Prefabricated Roof Curb	1,106.27	302.55
		<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	72.81	
		<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	183.44	
		<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	25.60	
		<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	138.68	
		<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	181.35	
07 72 13 00-0239	EA	50" x 50" Outside Frame Dimensions, 2 x 8 Wood Framed With Liner, Prefabricated Roof Curb	975.16	272.29
		<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	63.48	
		<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	161.00	
		<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	-73.72	
		<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	20.15	
		<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	43.62	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0240 EA 50" x 74" Outside Frame Dimensions, 2 x 8 Wood Framed With Liner, Prefabricated Roof Curb	1,121.21	302.55
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	74.30	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	186.42	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	-105.10	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	-30.43	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	42.09	
07 72 13 00-0241 EA 51" x 99" Outside Frame Dimensions, 2 x 8 Wood Framed With Liner, Prefabricated Roof Curb	1,276.75	363.07
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	82.29	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	209.97	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	32.96	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	152.44	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	205.78	
07 72 13 00-0242 EA 62" x 62" Outside Frame Dimensions, 2 x 8 Wood Framed With Liner, Prefabricated Roof Curb	1,076.40	302.55
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	69.82	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	177.46	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	26.24	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	96.65	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	177.72	
07 72 13 00-0243 EA 62-3/8" x 74-3/8" Outside Frame Dimensions, 2 x 8 Wood Framed With Liner, Prefabricated Roof Curb	1,179.77	332.81
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	76.38	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	194.35	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	-128.31	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	-23.77	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	42.35	
07 72 13 00-0244 EA 62" x 98" Outside Frame Dimensions, 2 x 8 Wood Framed With Liner, Prefabricated Roof Curb	1,321.55	363.07
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	86.77	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	218.93	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	39.04	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	143.58	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	250.26	
07 72 13 00-0245 2 x 10 Wood Framed With Liner, Prefabricated Roof Curbs (07 72 13 00-0218)		
07 72 13 00-0246 EA 26" x 26" Outside Frame Dimensions, 2 x 10 Wood Framed With Liner, Prefabricated Roof Curb	822.72	242.04
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	52.02	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	134.29	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	-30.03	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	14.77	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	38.24	
07 72 13 00-0247 EA 26" x 50" Outside Frame Dimensions, 2 x 10 Wood Framed With Liner, Prefabricated Roof Curb	915.42	272.29
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	57.51	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	149.05	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	-45.05	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	29.62	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	44.56	
07 72 13 00-0248 EA 26" x 98" Outside Frame Dimensions, 2 x 10 Wood Framed With Liner, Prefabricated Roof Curb	1,000.76	272.29
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	66.04	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	166.12	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	19.52	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	124.06	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	136.86	
07 72 13 00-0249 EA 38" x 62" Outside Frame Dimensions, 2 x 10 Wood Framed With Liner, Prefabricated Roof Curb	979.43	272.29
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	63.91	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	161.85	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	-70.97	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	22.88	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	52.75	
07 72 13 00-0250 EA 38" x 74" Outside Frame Dimensions, 2 x 10 Wood Framed With Liner, Prefabricated Roof Curb	1,013.57	272.29
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	67.32	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	168.68	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	19.84	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	122.25	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	149.98	
07 72 13 00-0251 EA 38" x 98" Outside Frame Dimensions, 2 x 10 Wood Framed With Liner, Prefabricated Roof Curb	1,134.01	302.55
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	75.58	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	188.98	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	25.60	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	138.68	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	181.35	
07 72 13 00-0252 EA 50" x 50" Outside Frame Dimensions, 2 x 10 Wood Framed With Liner, Prefabricated Roof Curb	994.36	272.29
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	65.40	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	164.84	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	-73.72	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	20.15	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	43.62	
07 72 13 00-0253 EA 50" x 74" Outside Frame Dimensions, 2 x 10 Wood Framed With Liner, Prefabricated Roof Curb	1,144.68	302.55
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	76.65	
<i>For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add</i>	191.12	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	-105.10	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	-30.43	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	42.09	

07 Thermal And Moisture Protection
07 70 Roof and Wall Specialties and Accessories
07 72 Roof Accessories



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0254	EA		51" x 99" Outside Frame Dimensions, 2 x 10 Wood Framed With Liner, Prefabricated Roof Curb For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	1,302.35 84.85 215.09 32.96 152.44 205.78	363.07
07 72 13 00-0255	EA		62" x 62" Outside Frame Dimensions, 2 x 10 Wood Framed With Liner, Prefabricated Roof Curb For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	1,097.74 71.96 181.73 26.24 96.65 177.72	302.55
07 72 13 00-0256	EA		62-3/8" x 74-3/8" Outside Frame Dimensions, 2 x 10 Wood Framed With Liner, Prefabricated Roof Curb For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	1,203.24 78.72 199.05 -128.31 -23.77 42.35	332.81
07 72 13 00-0257	EA		62" x 98" Outside Frame Dimensions, 2 x 10 Wood Framed With Liner, Prefabricated Roof Curb For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	1,349.28 89.55 224.47 39.04 143.58 250.26	363.07
07 72 13 00-0258			2 x 12 Wood Framed With Liner, Prefabricated Roof Curbs (07 72 13 00-0218)		
07 72 13 00-0259	EA		26" x 26" Outside Frame Dimensions, 2 x 12 Wood Framed With Liner, Prefabricated Roof Curb For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	848.32 54.58 139.41 -30.03 14.77 38.24	242.04
07 72 13 00-0260	EA		26" x 50" Outside Frame Dimensions, 2 x 12 Wood Framed With Liner, Prefabricated Roof Curb For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	928.23 58.79 151.61 -45.05 29.62 44.56	272.29
07 72 13 00-0261	EA		26" x 98" Outside Frame Dimensions, 2 x 12 Wood Framed With Liner, Prefabricated Roof Curb For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	1,019.97 67.96 169.96 19.52 124.06 136.86	272.29
07 72 13 00-0262	EA		38" x 74" Outside Frame Dimensions, 2 x 12 Wood Framed With Liner, Prefabricated Roof Curb For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	1,034.90 69.45 172.94 19.84 122.25 149.98	272.29
07 72 13 00-0263	EA		38" x 98" Outside Frame Dimensions, 2 x 12 Wood Framed With Liner, Prefabricated Roof Curb For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	1,215.08 83.69 205.20 25.60 138.68 181.35	302.55
07 72 13 00-0264	EA		50" x 50" Outside Frame Dimensions, 2 x 12 Wood Framed With Liner, Prefabricated Roof Curb For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	1,056.24 71.59 177.21 -73.72 20.15 43.62	272.29
07 72 13 00-0265	EA		50" x 74" Outside Frame Dimensions, 2 x 12 Wood Framed With Liner, Prefabricated Roof Curb For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	1,219.35 84.12 206.05 -105.10 -30.43 42.09	302.55
07 72 13 00-0266	EA		51" x 99" Outside Frame Dimensions, 2 x 12 Wood Framed With Liner, Prefabricated Roof Curb For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	1,387.69 93.39 232.16 32.96 152.44 205.78	363.07
07 72 13 00-0267	EA		62-3/8" x 74-3/8" Outside Frame Dimensions, 2 x 12 Wood Framed With Liner, Prefabricated Roof Curb For Sloped Roofs Up To 1 In 12 Pitch, Add For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	1,282.18 86.62 214.84 -128.31 -23.77 42.35	332.81

07 72 23 Relief Vents (07 72)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
------------------------------	---------------------------	-------------------------

07 72 23 00-0001 Wind Driven Turbine Ventilators (07 72 23)		
Note: Excludes curb or flange base.		
07 72 23 00-0002 Galvanized Steel, Wind Driven Turbine Ventilators (07 72 23 00-0001)		
07 72 23 00-0003 EA 6" Neck Diameter, 26 Gauge, Galvanized Steel, Outside Braced, Wind Driven Turbine Ventilator.....	181.41	42.95
For Curb Or Flange Base, Add		
	211.33	
07 72 23 00-0004 EA 9" Neck Diameter, 26 Gauge, Galvanized Steel, Outside Braced, Wind Driven Turbine Ventilator.....	216.84	47.56
For Curb Or Flange Base, Add		
	232.89	
07 72 23 00-0005 EA 12" Neck Diameter, 26 Gauge, Galvanized Steel, Outside Braced, Wind Driven Turbine Ventilator.....	235.73	56.76
For Curb Or Flange Base, Add		
	261.50	
07 72 23 00-0006 EA 15" Neck Diameter, 26 Gauge, Galvanized Steel, Outside Braced, Wind Driven Turbine Ventilator.....	439.21	62.89
For Curb Or Flange Base, Add		
	404.06	
07 72 23 00-0007 EA 18" Neck Diameter, 26 Gauge, Galvanized Steel, Outside Braced, Wind Driven Turbine Ventilator.....	600.36	70.56
For Curb Or Flange Base, Add		
	438.92	
07 72 23 00-0008 EA 21" Neck Diameter, 26 Gauge, Galvanized Steel, Outside Braced, Wind Driven Turbine Ventilator.....	721.74	76.70
For Curb Or Flange Base, Add		
	476.06	
07 72 23 00-0009 EA 24" Neck Diameter, 26 Gauge, Galvanized Steel, Outside Braced, Wind Driven Turbine Ventilator.....	918.74	85.90
For Curb Or Flange Base, Add		
	578.85	
07 72 23 00-0010 EA 36" Neck Diameter, 26 Gauge, Galvanized Steel, Outside Braced, Wind Driven Turbine Ventilator.....	1,510.24	115.05
For Curb Or Flange Base, Add		
	934.85	
07 72 23 00-0011 Mill Finish Aluminum, Wind Driven Turbine Ventilators (07 72 23 00-0001)		
07 72 23 00-0012 EA 6" Neck Diameter, 0.025", Mill Finish Aluminum, Outside Braced, Wind Driven Turbine Ventilator.....	173.14	42.95
For Curb Or Flange Base, Add		
	215.40	
07 72 23 00-0013 EA 9" Neck Diameter, 0.025", Mill Finish Aluminum, Outside Braced, Wind Driven Turbine Ventilator.....	214.30	47.56
For Curb Or Flange Base, Add		
	237.80	
07 72 23 00-0014 EA 12" Neck Diameter, 0.025", Mill Finish Aluminum, Outside Braced, Wind Driven Turbine Ventilator.....	241.16	56.76
For Curb Or Flange Base, Add		
	266.24	
07 72 23 00-0015 EA 15" Neck Diameter, 0.025", Mill Finish Aluminum, Outside Braced, Wind Driven Turbine Ventilator.....	417.74	62.89
For Curb Or Flange Base, Add		
	435.19	
07 72 23 00-0016 EA 18" Neck Diameter, 0.025", Mill Finish Aluminum, Outside Braced, Wind Driven Turbine Ventilator.....	535.86	70.56
For Curb Or Flange Base, Add		
	466.87	
07 72 23 00-0017 EA 21" Neck Diameter, 0.025", Mill Finish Aluminum, Outside Braced, Wind Driven Turbine Ventilator.....	673.93	76.70
For Curb Or Flange Base, Add		
	524.03	
07 72 23 00-0018 EA 24" Neck Diameter, 0.025", Mill Finish Aluminum, Outside Braced, Wind Driven Turbine Ventilator.....	904.99	85.90
For Curb Or Flange Base, Add		
	629.49	
07 72 23 00-0019 EA 36" Neck Diameter, 0.025", Mill Finish Aluminum, Outside Braced, Wind Driven Turbine Ventilator.....	1,344.17	115.05
For Curb Or Flange Base, Add		
	938.40	
07 72 23 00-0020 Stationary Siphon Ventilators (07 72 23)		
Note: Excludes curb or flange base.		
07 72 23 00-0021 Galvanized Steel, Stationary Siphon Ventilators (07 72 23 00-0020)		
07 72 23 00-0022 EA 6" Neck Diameter, 26 Gauge, Galvanized Steel, Stationary Siphon Ventilator.....	155.05	42.95
For Curb Or Flange Base, Add		
	211.33	
07 72 23 00-0023 EA 9" Neck Diameter, 26 Gauge, Galvanized Steel, Stationary Siphon Ventilator.....	201.77	47.56
For Curb Or Flange Base, Add		
	232.89	
07 72 23 00-0024 EA 12" Neck Diameter, 26 Gauge, Galvanized Steel, Stationary Siphon Ventilator.....	223.37	56.76
For Curb Or Flange Base, Add		
	261.50	
07 72 23 00-0025 EA 15" Neck Diameter, 26 Gauge, Galvanized Steel, Stationary Siphon Ventilator.....	371.58	62.89
For Curb Or Flange Base, Add		
	404.06	
07 72 23 00-0026 EA 18" Neck Diameter, 26 Gauge, Galvanized Steel, Stationary Siphon Ventilator.....	429.19	70.56
For Curb Or Flange Base, Add		
	438.92	
07 72 23 00-0027 EA 21" Neck Diameter, 26 Gauge, Galvanized Steel, Stationary Siphon Ventilator.....	600.77	76.70
For Curb Or Flange Base, Add		
	476.06	
07 72 23 00-0028 EA 24" Neck Diameter, 26 Gauge, Galvanized Steel, Stationary Siphon Ventilator.....	778.54	85.90
For Curb Or Flange Base, Add		
	578.85	
07 72 23 00-0029 EA 36" Neck Diameter, 26 Gauge, Galvanized Steel, Stationary Siphon Ventilator.....	1,125.64	115.05
For Curb Or Flange Base, Add		
	934.85	
07 72 23 00-0030 Mill Finish Aluminum, Stationary Siphon Ventilators (07 72 23 00-0020)		
07 72 23 00-0031 EA 6" Neck Diameter, 0.025", Mill Finish Aluminum, Stationary Siphon Ventilator.....	166.93	42.95
For Curb Or Flange Base, Add		
	215.40	
07 72 23 00-0032 EA 9" Neck Diameter, 0.025", Mill Finish Aluminum, Stationary Siphon Ventilator.....	218.01	47.56
For Curb Or Flange Base, Add		
	237.80	
07 72 23 00-0033 EA 12" Neck Diameter, 0.025", Mill Finish Aluminum, Stationary Siphon Ventilator.....	244.28	56.76
For Curb Or Flange Base, Add		
	266.24	
07 72 23 00-0034 EA 15" Neck Diameter, 0.025", Mill Finish Aluminum, Stationary Siphon Ventilator.....	388.51	62.89
For Curb Or Flange Base, Add		
	435.19	
07 72 23 00-0035 EA 18" Neck Diameter, 0.025", Mill Finish Aluminum, Stationary Siphon Ventilator.....	486.20	70.56
For Curb Or Flange Base, Add		
	466.87	
07 72 23 00-0036 EA 21" Neck Diameter, 0.025", Mill Finish Aluminum, Stationary Siphon Ventilator.....	593.21	76.70
For Curb Or Flange Base, Add		
	524.03	
07 72 23 00-0037 EA 24" Neck Diameter, 0.025", Mill Finish Aluminum, Stationary Siphon Ventilator.....	842.93	85.90
For Curb Or Flange Base, Add		
	629.49	
07 72 23 00-0038 EA 36" Neck Diameter, 0.025", Mill Finish Aluminum, Stationary Siphon Ventilator.....	1,264.84	115.05
For Curb Or Flange Base, Add		
	938.40	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 23 00-0039			Spun Aluminum, Stationary Mushroom Gravity Ventilators (07 72 23) Note: Includes flange base and bird screen. Excludes curb.		
07 72 23 00-0040	EA		8" Orifice Diameter, Spun Aluminum, Stationary Mushroom Gravity Ventilator	349.86	69.03
			For Backdraft Damper, Add	168.58	
			For Curb Base, Add	264.70	
07 72 23 00-0041	EA		10" Orifice Diameter, Spun Aluminum, Stationary Mushroom Gravity Ventilator	427.76	76.70
			For Backdraft Damper, Add	184.44	
			For Curb Base, Add	289.72	
07 72 23 00-0042	EA		12" Orifice Diameter, Spun Aluminum, Stationary Mushroom Gravity Ventilator	485.94	92.04
			For Backdraft Damper, Add	251.87	
			For Curb Base, Add	366.30	
07 72 23 00-0043	EA		16" Orifice Diameter, Spun Aluminum, Stationary Mushroom Gravity Ventilator	588.28	101.25
			For Backdraft Damper, Add	287.57	
			For Curb Base, Add	423.36	
07 72 23 00-0044	EA		24" Orifice Diameter, Spun Aluminum, Stationary Mushroom Gravity Ventilator	1,513.28	138.06
			For Backdraft Damper, Add	360.95	
			For Curb Base, Add	558.37	
07 72 23 00-0045	EA		30" Orifice Diameter, Spun Aluminum, Stationary Mushroom Gravity Ventilator	1,844.62	159.53
			For Backdraft Damper, Add	426.40	
			For Curb Base, Add	666.38	
07 72 23 00-0046	EA		36" Orifice Diameter, Spun Aluminum, Stationary Mushroom Gravity Ventilator	2,500.95	184.09
			For Backdraft Damper, Add	426.40	
			For Curb Base, Add	696.90	
07 72 23 00-0047	EA		42" Orifice Diameter, Spun Aluminum, Stationary Mushroom Gravity Ventilator	3,493.25	199.42
			For Backdraft Damper, Add	446.23	
			For Curb Base, Add	723.91	
07 72 23 00-0048	EA		48" Orifice Diameter, Spun Aluminum, Stationary Mushroom Gravity Ventilator	4,999.19	214.76
			For Backdraft Damper, Add	495.81	
			For Curb Base, Add	812.39	
07 72 23 00-0049			Galvanized Steel, Stationary Gooseneck Ventilators (07 72 23) Note: Includes flange base and bird screen. Excludes curb.		
07 72 23 00-0050	EA		8" x 8", 26 Gauge, Galvanized Steel, Stationary Gooseneck Ventilator	632.94	76.70
07 72 23 00-0051	EA		12" x 12", 26 Gauge, Galvanized Steel, Stationary Gooseneck Ventilator	746.29	101.25
07 72 23 00-0052	EA		16" x 16", 26 Gauge, Galvanized Steel, Stationary Gooseneck Ventilator	1,071.89	138.06
07 72 23 00-0053	EA		24" x 24", 26 Gauge, Galvanized Steel, Stationary Gooseneck Ventilator	1,644.71	159.53
07 72 26			Ridge Vents (07 72)		
07 72 26 00-0001			Aluminum Ridge Vents (07 72 26)		
07 72 26 00-0002	LF		Aluminum Ridge Vent Strips	17.16	4.45
07 72 26 00-0003	EA		Aluminum Ridge Univent Connectors	69.32	27.64
07 72 26 00-0004	EA		Aluminum Ridge Univent End Cap	64.93	27.64
07 72 26 00-0005			Galvanized Ridge Vents (07 72 26)		
07 72 26 00-0006	LF		Galvanized Sheet Metal Ridge Vent Strips	16.19	4.76
07 72 29			Rafter Vent (07 72)		
07 72 29 00-0001			Rafter Vent (07 72 29) Note: Built-in baffle is designed to help keep air flowing freely from soffits to ridge vents.		
07 72 29 00-0002	EA		22" x 4' Rafter Vent	12.36	
07 72 29 00-0003	EA		14" x 4' Rafter Vent	11.29	
07 72 33			Roof Hatches (07 72) Note: Includes curb with integral insulation, lockable hatch and gaskets.		
07 72 33 00-0001			Galvanized Steel Cover And Curb (07 72 33)		
07 72 33 00-0002	EA		2'-6" x 3'-0" Galvanized Steel Roof Hatch	1,343.32	185.96
07 72 33 00-0003	EA		2'-6" x 4'-6" Galvanized Steel Roof Hatch	1,943.34	206.62
07 72 33 00-0004	EA		2'-6" x 8'-0" Galvanized Steel Roof Hatch	3,396.59	281.79
07 72 33 00-0005	EA		3'-0" x 3'-0" Galvanized Steel Roof Hatch	1,910.38	206.62
07 72 33 00-0006	EA		4'-0" x 4'-0" Galvanized Steel Roof Hatch	2,154.23	229.61
07 72 33 00-0007	EA		3'-0" x 8'-0" Galvanized Steel Roof Hatch	3,508.70	313.16
07 72 33 00-0008			Aluminum Cover And Curb (07 72 33)		
07 72 33 00-0009	EA		2'-6" x 3'-0" Aluminum Roof Hatch	1,363.09	185.96
07 72 33 00-0010	EA		2'-6" x 4'-6" Aluminum Roof Hatch	1,761.12	206.62
07 72 33 00-0011	EA		2'-6" x 8'-0" Aluminum Roof Hatch	3,172.72	281.79
07 72 33 00-0012	EA		3'-0" x 3'-0" Aluminum Roof Hatch	1,719.97	206.62
07 72 33 00-0013	EA		4'-0" x 4'-0" Aluminum Roof Hatch	3,026.95	229.61
07 72 33 00-0014	EA		3'-0" x 8'-0" Aluminum Roof Hatch	3,341.47	313.16
07 72 33 00-0015	EA		3'-0" x 2'-6" Aluminum Roof Scuttle With Skylight	1,919.91	206.62
07 72 33 00-0016			Steel, Plain, Primed (07 72 33)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 33 00-0017 EA 2'-6" x 3'-0" Plain Steel Roof Hatch Primed	1,291.38	185.96
07 72 33 00-0018 EA 2'-6" x 4'-6" Plain Steel Roof Hatch Primed	1,727.58	206.62
07 72 33 00-0019 EA 2'-6" x 8'-0" Plain Steel Roof Hatch Primed	2,366.14	281.79
07 72 33 00-0020 EA 3'-0" x 3'-0" Plain Steel Roof Hatch Primed	1,603.65	206.62
07 72 33 00-0021 EA 4'-0" x 4'-0" Plain Steel Roof Hatch Primed	1,956.35	229.61
07 72 33 00-0022 EA 3'-0" x 8'-0" Plain Steel Roof Hatch Primed	2,657.78	313.16
07 72 33 00-0023 Stainless Steel <small>(07 72 33)</small>		
07 72 33 00-0024 EA 2'-6" x 3'-0" Stainless Steel Roof Hatch	2,983.34	185.96
07 72 33 00-0025 EA 2'-6" x 4'-6" Stainless Steel Roof Hatch	5,666.77	206.62
07 72 33 00-0026 EA 2'-6" x 8'-0" Stainless Steel Roof Hatch	8,513.38	281.79
07 72 33 00-0027 EA 3'-0" x 3'-0" Stainless Steel Roof Hatch	4,555.21	206.62
07 72 33 00-0028 EA 4'-0" x 4'-0" Stainless Steel Roof Hatch	9,572.84	229.61
07 72 33 00-0029 EA 3'-0" x 8'-0" Stainless Steel Roof Hatch	10,735.99	313.16
07 72 33 00-0030 Removal And Reinstallation Of Roof Hatch <small>(07 72 33)</small>		
Note: Includes storage, cleaning and supply materials.		
07 72 33 00-0031 EA Removal And Reinstallation Of Roof Hatch (All Types)	571.98	
07 72 33 00-0032 Aluminum Cover And Galvanized Steel Curb <small>(07 72 33)</small>		
07 72 33 00-0033 EA Aluminum Cover, Galvanized Steel Curb 3'-0" x 2'-6" Roof	1,322.15	206.62
07 72 33 00-0034 EA Aluminum Cover, Galvanized Steel Curb 2'-6" x 4'-6" Roof	1,720.17	229.61
07 72 33 00-0035 EA Aluminum Cover, Galvanized Steel Curb 2'-6" x 8'-0" Roof	3,066.27	313.03
07 72 33 00-0036 EA Aluminum Cover, Galvanized Steel Curb 3'-0" x 3'-0" Roof	1,687.21	213.08
07 72 33 00-0037 EA Aluminum Cover, Galvanized Steel Curb 4'-0" x 4'-0" Roof	2,936.88	236.06
07 72 33 00-0038 Roof Hatch Accessories <small>(07 72 33)</small>		
07 72 33 00-0039 EA Enamel Steel, Roof Hatch Ladderup Safety Post	825.06	96.86
07 72 33 00-0040 Roof Hatch Safety Railing <small>(07 72 33)</small>		
Note: Included mounting bracket to attach to roof hatch		
07 72 33 00-0041 EA 24" x 24" Painted Steel, Roof Hatch Safety Railing With Self Closing Gate	2,091.17	
07 72 33 00-0042 EA 24" x 36" Painted Steel, Roof Hatch Safety Railing With Self Closing Gate	2,171.66	
07 72 33 00-0043 EA 30" x 30" Painted Steel, Roof Hatch Safety Railing With Self Closing Gate	2,224.52	
07 72 33 00-0044 EA 30" x 36" Painted Steel, Roof Hatch Safety Railing With Self Closing Gate	2,418.02	
07 72 33 00-0045 EA 36" x 36" Painted Steel, Roof Hatch Safety Railing With Self Closing Gate	2,641.66	
07 72 33 00-0046 EA 48" x 48" Painted Steel, Roof Hatch Safety Railing With Self Closing Gate	3,363.01	
07 72 36 Smoke Vents <small>(07 72)</small>		
07 72 36 00-0001 Fire Vent <small>(07 72 36)</small>		
07 72 36 00-0002 Galvanized Steel Covers And Curb <small>(07 72 36 00-0001)</small>		
07 72 36 00-0003 EA 4'-0" x 4'-0" Galvanized Steel Covers And Curb, Smoke And Fire Vent	3,345.36	172.27
07 72 36 00-0004 EA 4'-0" x 6'-0" Galvanized Steel Covers And Curb, Smoke And Fire Vent	3,857.80	236.84
07 72 36 00-0005 EA 4'-0" x 7'-6" Galvanized Steel Covers And Curb, Smoke And Fire Vent	4,394.70	258.41
07 72 36 00-0006 EA 4'-0" x 8'-0" Galvanized Steel Covers And Curb, Smoke And Fire Vent	4,483.33	271.32
07 72 36 00-0007 EA 5'-0" x 5'-0" Galvanized Steel Covers And Curb, Smoke And Fire Vent	5,183.67	236.84
07 72 36 00-0008 EA 5'-0" x 6'-0" Galvanized Steel Covers And Curb, Smoke And Fire Vent	5,512.78	258.41
07 72 36 00-0009 EA 5'-0" x 7'-0" Galvanized Steel Covers And Curb, Smoke And Fire Vent	5,822.09	279.97
07 72 36 00-0010 EA 5'-0" x 8'-0" Galvanized Steel Covers And Curb, Smoke And Fire Vent	6,626.14	301.54
07 72 36 00-0011 EA 5'-0" x 10'-0" Galvanized Steel Covers And Curb, Smoke And Fire Vent	8,211.86	322.97
07 72 36 00-0012 EA 5'-6" x 5'-6" Galvanized Steel Covers And Curb, Smoke And Fire Vent	5,515.36	279.97
07 72 36 00-0013 EA 5'-6" x 12'-0" Galvanized Steel Covers And Curb, Smoke And Fire Vent	11,548.93	344.55
07 72 36 00-0014 EA 6'-0" x 6'-0" Galvanized Steel Covers And Curb, Smoke And Fire Vent	6,366.80	366.11
07 72 36 00-0015 Aluminum Covers And Galvanized Steel Curb <small>(07 72 36 00-0001)</small>		
07 72 36 00-0016 EA 4'-0" x 4'-0" Aluminum Covers And Galvanized Steel Curb, Smoke And Fire Vent	2,911.32	172.27
07 72 36 00-0017 EA 4'-0" x 6'-0" Aluminum Covers And Galvanized Steel Curb, Smoke And Fire Vent	3,343.92	236.84
07 72 36 00-0018 EA 4'-0" x 7'-6" Aluminum Covers And Galvanized Steel Curb, Smoke And Fire Vent	3,761.05	258.41
07 72 36 00-0019 EA 4'-0" x 8'-0" Aluminum Covers And Galvanized Steel Curb, Smoke And Fire Vent	3,895.06	271.32
07 72 36 00-0020 EA 5'-0" x 5'-0" Aluminum Covers And Galvanized Steel Curb, Smoke And Fire Vent	3,777.90	236.84
07 72 36 00-0021 EA 5'-0" x 6'-0" Aluminum Covers And Galvanized Steel Curb, Smoke And Fire Vent	4,817.35	258.41
07 72 36 00-0022 EA 5'-0" x 7'-0" Aluminum Covers And Galvanized Steel Curb, Smoke And Fire Vent	5,152.59	279.97
07 72 36 00-0023 EA 5'-0" x 8'-0" Aluminum Covers And Galvanized Steel Curb, Smoke And Fire Vent	5,021.10	301.54
07 72 36 00-0024 EA 5'-0" x 10'-0" Aluminum Covers And Galvanized Steel Curb, Smoke And Fire Vent	7,034.98	322.97
07 72 36 00-0025 EA 5'-6" x 5'-6" Aluminum Covers And Galvanized Steel Curb, Smoke And Fire Vent	4,865.99	279.97
07 72 36 00-0026 EA 5'-6" x 12'-0" Aluminum Covers And Galvanized Steel Curb, Smoke And Fire Vent	9,212.64	344.55
07 72 36 00-0027 EA 6'-0" x 6'-0" Aluminum Covers And Galvanized Steel Curb, Smoke And Fire Vent	4,790.42	366.11
07 72 36 00-0028 Aluminum Covers And Curb <small>(07 72 36 00-0001)</small>		
07 72 36 00-0029 EA 4'-0" x 4'-0" Aluminum Covers And Curb, Smoke And Fire Vent	3,173.35	172.27

07	Thermal And Moisture Protection
07 70	Roof and Wall Specialties and Accessories
07 72	Roof Accessories



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 36 00-0030 EA 4'-0" x 6'-0" Aluminum Covers And Curb, Smoke And Fire Vent	3,777.90	236.84
07 72 36 00-0031 EA 4'-0" x 7'-6" Aluminum Covers And Curb, Smoke And Fire Vent	4,145.91	258.41
07 72 36 00-0032 EA 4'-0" x 8'-0" Aluminum Covers And Curb, Smoke And Fire Vent	4,386.36	271.32
07 72 36 00-0033 EA 5'-0" x 5'-0" Aluminum Covers And Curb, Smoke And Fire Vent	3,974.42	236.84
07 72 36 00-0034 EA 5'-0" x 6'-0" Aluminum Covers And Curb, Smoke And Fire Vent	5,022.06	258.41
07 72 36 00-0035 EA 5'-0" x 7'-0" Aluminum Covers And Curb, Smoke And Fire Vent	5,332.73	279.97
07 72 36 00-0036 EA 5'-0" x 8'-0" Aluminum Covers And Curb, Smoke And Fire Vent	5,512.40	301.54
07 72 36 00-0037 EA 5'-0" x 10'-0" Aluminum Covers And Curb, Smoke And Fire Vent.....	6,682.88	322.97
07 72 36 00-0038 EA 5'-6" x 5'-6" Aluminum Covers And Curb, Smoke And Fire Vent	5,095.27	279.97
07 72 36 00-0039 EA 5'-6" x 12'-0" Aluminum Covers And Curb, Smoke And Fire Vent.....	10,056.05	344.55
07 72 36 00-0040 EA 6'-0" x 6'-0" Aluminum Covers And Curb, Smoke And Fire Vent	5,281.73	366.11
07 72 36 00-0041 Polycarbonate Translucent Cover With Aluminum Frame And Aluminum Curb ^(07 72 36)		
07 72 36 00-0042 EA 4'-0" x 4'-0" Polycarbonate Translucent Cover With Aluminum Frame And Aluminum Curb, Smoke And Fire Vent.....	3,140.60	171.76
07 72 36 00-0043 EA 4'-0" x 6'-0" Polycarbonate Translucent Cover With Aluminum Frame And Aluminum Curb, Smoke And Fire Vent.....	3,982.60	236.84
07 72 36 00-0044 EA 4'-0" x 8'-0" Polycarbonate Translucent Cover With Aluminum Frame And Aluminum Curb, Smoke And Fire Vent.....	4,214.39	271.32
07 72 36 00-0045 EA 5'-0" x 5'-0" Polycarbonate Translucent Cover With Aluminum Frame And Aluminum Curb, Smoke And Fire Vent.....	4,514.86	236.84
07 72 36 00-0046 EA 5'-0" x 8'-0" Polycarbonate Translucent Cover With Aluminum Frame And Aluminum Curb, Smoke And Fire Vent.....	4,775.46	301.54
07 72 46 Roof Walkways ^(07 72)		
07 72 46 00-0001 Recycled Rubber Walkway Pads ^(07 72 46)		
07 72 46 00-0002 SF 3/8" Thick, Button Surface, Recycled Rubber Walkway Pad	12.30	2.85
For Diamond Surface, Add	1.12	
07 72 46 00-0003 SF 1/2" Thick, Button Surface, Recycled Rubber Walkway Pad	13.71	3.42
For Diamond Surface, Add	1.30	
07 72 46 00-0004 SF 3/4" Thick, Button Surface, Recycled Rubber Walkway Pad	15.14	3.42
For Diamond Surface, Add	1.45	
07 72 53 Snow Guards ^(07 72)		
07 72 53 00-0001 Snow Guards For Shingle And Tile Roofs ^(07 72 53)		
07 72 53 00-0002 EA 6-5/8" Length, 1-1/2" Width, Copper Snow Guards For Shingle And Tile Roofs.....	24.44	2.93
07 72 53 00-0003 EA 6-5/8" Length, 1-1/2" Width, Lead Coated Copper Snow Guards For Shingle And Tile Roofs	26.77	2.93
07 72 53 00-0004 EA 6-5/8" Length, 1-1/2" Width, Stainless Steel Snow Guards For Shingle And Tile Roofs.....	25.23	2.93
07 72 53 00-0005 EA 6-5/8" Length, 1-1/2" Width, Aluminum Snow Guards For Shingle And Tile Roofs.....	14.44	2.93
07 72 53 00-0006 Snow Guards For Metal Roofs ^(07 72 53)		
Note: Aluminum construction.		
07 72 53 00-0007 EA Mill Finish, Up To 9/32" Seams, Standing Seam Metal Roof Snow Guard (Berger Real Tool® RT 300)	28.96	5.48
07 72 53 00-0008 EA Black Primer Finish, Up To 9/32" Seams, Standing Seam Metal Roof Snow Guard (Berger Real Tool® RT 300).....	32.13	5.48
07 72 53 00-0009 EA Bronze Finish, Up To 9/32" Seams, Standing Seam Metal Roof Snow Guard (Berger Real Tool® RT 300).....	47.12	5.48
07 72 53 00-0010 EA Painted Finish, Up To 9/32" Seams, Standing Seam Metal Roof Snow Guard (Berger Real Tool® RT 300).....	46.45	5.48
07 72 53 00-0011 EA Mill Finish, Up To 1/2" Seams, Standing Seam Metal Roof Snow Guard (Berger Real Tool® AP 516)	43.78	6.40
07 72 53 00-0012 EA Black Primer Finish, Up To 1/2" Seams, Standing Seam Metal Roof Snow Guard (Berger Real Tool® AP 516).....	47.76	6.40
07 72 53 00-0013 EA Painted Finish, Up To 1/2" Seams, Standing Seam Metal Roof Snow Guard (Berger Real Tool® AP 516).....	59.49	6.40
07 72 53 00-0014 EA Mill Finish, Adhesive Surface Mount, Metal Roof Snow Guard (Berger Real Tool® SM)	25.31	4.80
For Mechanically Fastened, Add	9.60	
07 72 53 00-0015 EA Black Primer Finish, Adhesive Surface Mount, Metal Roof Snow Guard (Berger Real Tool® SM)	28.60	4.80
For Mechanically Fastened, Add	9.60	
07 72 53 00-0016 EA Painted Finish, Adhesive Surface Mount, Metal Roof Snow Guard (Berger Real Tool® SM).....	39.78	4.80
For Mechanically Fastened, Add	9.60	
07 72 53 00-0017 EA Polycarbonate, Adhesive Surface Mount, Metal Roof Snow Guard (Zaleski #15)	15.66	4.80
Note: Can be used for metal, rubber, PVC, TPO or glass roofing.		
For Mechanically Fastened, Add	12.80	
07 72 53 00-0018 Snow Breaker For Roofs ^(07 72 53)		
07 72 53 00-0019 EA Up To 50 Each, 2.875" Tall Plastic Snow Breaker, Adhesive Mount	19.69	6.40
07 72 53 00-0020 EA >50 To 150 Each, 2.875" Tall Plastic Snow Breaker, Adhesive Mount.....	18.57	6.40
07 72 53 00-0021 EA >150 To 500 Each, 2.875" Tall Plastic Snow Breaker, Adhesive Mount.....	18.01	6.40
07 72 53 00-0022 EA >500 Each, 2.875" Tall Plastic Snow Breaker, Adhesive Mount	17.34	6.40
07 72 53 00-0023 Ice Breaker For Vents ^(07 72 53)		
07 72 53 00-0024 EA Ice Breaker For Vents Up to 4", Mechanically Fastened.....	152.46	
07 72 53 00-0025 EA Ice Breaker For Vents And Stacks >4" To 14" Diameter, Mechanically Fastened	174.95	
07 72 53 00-0026 Pipe Style, Snow Guards For Metal Roofs ^(07 72 53)		
07 72 53 00-0027 Pipe Style, Standing Seam Metal Roof Snow Guard Clamps ^(07 72 53 00-0026)		
Note: Aluminum construction. Includes clamp for attaching to standing seam. Excludes tubing.		
07 72 53 00-0028 EA Single Tube, "U" Clamp, Pipe Style, Standing Seam Metal Roof Snow Guard Clamp (Alpine SnowGuards® 2000).....	73.99	19.20
07 72 53 00-0029 EA Single Tube, "T2 or Z2K" Clamp, Pipe Style, Standing Seam Metal Roof Snow Guard Clamp (Alpine SnowGuards® 2000).....	87.71	19.20



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 53 00-0030 EA Double Tube, "U" Clamp, Pipe Style, Standing Seam Metal Roof Snow Guard Clamp (Alpine SnowGuards® 4000).....	98.66	19.20
07 72 53 00-0031 EA Double Tube, "T2K or Z2K" Clamp, Pipe Style, Standing Seam Metal Roof Snow Guard Clamp (Alpine SnowGuards® 4000).....	122.22	19.20
07 72 53 00-0032 EA Triple Tube, "U" Clamp, Pipe Style, Standing Seam Metal Roof Snow Guard Clamp (Alpine SnowGuards® 6000).....	126.35	23.04
07 72 53 00-0033 Tubing For Snow Guard Clamps <small>(07 72 53 00-0026)</small>		
07 72 53 00-0034 LF 1" Outside Diameter Aluminum Tubing For Snow Guard Clamps (Alpine SnowGuards®).....	15.45	4.60
07 72 53 00-0035 LF 1" Outside Diameter Brass Or Stainless Steel Tubing For Snow Guard Clamps (Alpine SnowGuards®).....	30.00	4.60
07 72 56 Snow/Ice Melt Cable <small>(07 72)</small>		
07 72 56 00-0001 Self Regulating Heating Cable For Roofs And Gutters <small>(07 72 56)</small>		
07 72 56 00-0002 LF 12 Watt, 120 Volt, Self Regulating Low Temperature Cable For Roofs And Gutters.....	17.45	1.54
Note: Nickel-coated copper braided cable with weatherproof jacket.		
07 72 56 00-0003 LF 12 Watt, 208/277 Volt Self Regulating Low Temperature Cable For Roofs And Gutters.....	18.73	1.54
Note: Nickel-coated copper braided cable with weatherproof jacket.		
07 72 56 00-0004 EA Power Connection, End Seal And Warning Labels Kit For Self Regulating Heating Cable For Roofs And Gutters.....	304.47	115.51
07 72 56 00-0005 EA Splice Kit For Self Regulating Heating Cable For Roofs And Gutters.....	231.20	84.71
07 72 56 00-0006 EA Edge Of Roof Cable Clips For Self Regulating Heating Cable For Roofs And Gutters.....	11.45	4.62
<i>For >5, Deduct</i>		
07 72 56 00-0007 EA Roof Cable Clips For Self Regulating Heating Cable For Roofs And Gutters.....	10.71	4.62
<i>For >5, Deduct</i>		
07 72 56 00-0008 EA Downspout Hanger Kit For Self Regulating Heating Cable For Roofs And Gutters.....	70.08	11.56
07 72 56 00-0009 EA 120 Volt AC, Snow Switch, Automatic Control For Melting Snow.....	1,105.76	92.41
07 72 56 00-0010 EA Automatic Gutter Ice Melting Control.....	1,513.35	115.51
07 72 63 Waste Containment Assemblies <small>(07 72)</small>		
07 72 63 00-0001 Rooftop Oil And Grease Containment System <small>(07 72 63)</small>		
07 72 63 00-0002 Light Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD-E) <small>(07 72 63 00-0001)</small>		
07 72 63 00-0003 EA 48" Length, 48" Width, 3.5" Height, Light Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD100-E).....	3,088.29	234.48
07 72 63 00-0004 EA 60" Length, 60" Width, 3.5" Height, Light Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD101-E).....	3,453.46	234.48
07 72 63 00-0005 EA 60" Length, 90" Width, 3.5" Height, Light Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD106-E).....	4,239.43	243.86
07 72 63 00-0006 EA 72" Length, 72" Width, 3.5" Height, Light Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD102-E).....	4,218.55	243.86
07 72 63 00-0007 EA 72" Length, 108" Width, 3.5" Height, Light Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD103-E).....	5,513.91	263.79
07 72 63 00-0008 EA 72" Length, 144" Width, 3.5" Height, Light Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD111-E).....	4,298.05	263.79
07 72 63 00-0009 EA 90" Length, 90" Width, 3.5" Height, Light Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD105-E).....	4,789.00	312.56
07 72 63 00-0010 EA 108" Length, 108" Width, 3.5" Height, Light Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD112-E).....	7,058.62	390.77
07 72 63 00-0011 EA 120" Length, 120" Width, 3.5" Height, Light Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD107-E).....	8,770.22	390.77
07 72 63 00-0012 EA 144" Length, 144" Width, 3.5" Height, Light Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD113-E).....	11,118.44	390.77
07 72 63 00-0013 Heavy Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD) <small>(07 72 63 00-0001)</small>		
07 72 63 00-0014 EA 48" Length, 48" Width, 3.5" Height, Heavy Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD100).....	3,803.09	234.48
07 72 63 00-0015 EA 60" Length, 60" Width, 3.5" Height, Heavy Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD101).....	4,277.97	234.48
07 72 63 00-0016 EA 60" Length, 90" Width, 3.5" Height, Heavy Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD106).....	5,288.31	243.86
07 72 63 00-0017 EA 72" Length, 72" Width, 3.5" Height, Heavy Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD102).....	5,382.26	243.86
07 72 63 00-0018 EA 72" Length, 108" Width, 3.5" Height, Heavy Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD103).....	7,689.93	263.79
07 72 63 00-0019 EA 72" Length, 144" Width, 3.5" Height, Heavy Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD111).....	8,436.15	263.79
07 72 63 00-0020 EA 90" Length, 90" Width, 3.5" Height, Heavy Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD105).....	7,836.47	312.56
07 72 63 00-0021 EA 108" Length, 108" Width, 3.5" Height, Heavy Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD112).....	8,822.39	390.77
07 72 63 00-0022 EA 120" Length, 120" Width, 3.5" Height, Heavy Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD107).....	11,050.60	390.77
07 72 63 00-0023 EA 144" Length, 144" Width, 3.5" Height, Heavy Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD113).....	14,103.28	390.77



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 63 00-0024		
Replacement Filter Sets For Rooftop Oil And Grease Containment System <small>(07 72 63)</small> Note: Includes removing old filters and installing new filters.		
07 72 63 00-0025		
Top And Center Replacement Filter Sets For Rooftop Oil And Grease Containment System <small>(07 72 63 00-0024)</small>		
07 72 63 00-0026		
Light Duty, Top And Center Replacement Filter Sets For Rooftop Oil And Grease Containment System <small>(07 72 63 00-0025)</small>		
07 72 63 00-0027	SET	48" Length, 48" Width, 3.5" Height, Light Duty, Top And Center Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL100-E).....
		254.98
07 72 63 00-0028	SET	60" Length, 60" Width, 3.5" Height, Light Duty, Top And Center Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL101-E).....
		359.35
07 72 63 00-0029	SET	60" Length, 90" Width, 3.5" Height, Light Duty, Top And Center Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL106-E).....
		515.89
07 72 63 00-0030	SET	72" Length, 72" Width, 3.5" Height, Light Duty, Top And Center Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL102-E).....
		475.44
07 72 63 00-0031	SET	72" Length, 108" Width, 3.5" Height, Light Duty, Top And Center Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL103-E).....
		892.91
07 72 63 00-0032	SET	72" Length, 144" Width, 3.5" Height, Light Duty, Top And Center Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL111-E).....
		903.33
07 72 63 00-0033	SET	90" Length, 90" Width, 3.5" Height, Light Duty, Top And Center Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL105-E).....
		695.90
07 72 63 00-0034	SET	108" Length, 108" Width, 3.5" Height, Light Duty, Top And Center Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL112-E).....
		904.64
07 72 63 00-0035	SET	120" Length, 120" Width, 3.5" Height, Light Duty, Top And Center Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL107-E).....
		1,327.32
07 72 63 00-0036	SET	144" Length, 144" Width, 3.5" Height, Light Duty, Top And Center Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL113-E).....
		1,750.00
07 72 63 00-0037		
Complete Replacement Filter Sets For Rooftop Oil And Grease Containment System <small>(07 72 63 00-0024)</small>		
07 72 63 00-0038		
Light Duty, Complete Replacement Filter Sets For Rooftop Oil And Grease Containment System <small>(07 72 63 00-0037)</small>		
07 72 63 00-0039	SET	48" Length, 48" Width, 3.5" Height, Light Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL100-EC).....
		533.48
07 72 63 00-0040	SET	60" Length, 60" Width, 3.5" Height, Light Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL101-EC).....
		710.91
07 72 63 00-0041	SET	60" Length, 90" Width, 3.5" Height, Light Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL106-EC).....
		1,034.45
07 72 63 00-0042	SET	72" Length, 72" Width, 3.5" Height, Light Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL102-EC).....
		962.66
07 72 63 00-0043	SET	72" Length, 108" Width, 3.5" Height, Light Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL103-EC).....
		1,854.99
07 72 63 00-0044	SET	72" Length, 144" Width, 3.5" Height, Light Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL111-EC).....
		1,865.41
07 72 63 00-0045	SET	90" Length, 90" Width, 3.5" Height, Light Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL105-EC).....
		1,381.41
07 72 63 00-0046	SET	108" Length, 108" Width, 3.5" Height, Light Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL112-EC).....
		1,866.72
07 72 63 00-0047	SET	120" Length, 120" Width, 3.5" Height, Light Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL107-EC).....
		2,738.17
07 72 63 00-0048	SET	144" Length, 144" Width, 3.5" Height, Light Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL113-EC).....
		3,646.15
07 72 63 00-0049		
Heavy Duty, Complete Replacement Filter Sets For Rooftop Oil And Grease Containment System <small>(07 72 63 00-0037)</small>		
07 72 63 00-0050	SET	48" Length, 48" Width, 3.5" Height, Heavy Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL100-C).....
		663.94
07 72 63 00-0051	SET	60" Length, 60" Width, 3.5" Height, Heavy Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL101-C).....
		825.71
07 72 63 00-0052	SET	60" Length, 90" Width, 3.5" Height, Heavy Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL106-C).....
		1,211.85
07 72 63 00-0053	SET	72" Length, 72" Width, 3.5" Height, Heavy Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL102-C).....
		1,145.31
07 72 63 00-0054	SET	72" Length, 108" Width, 3.5" Height, Heavy Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL103-C).....
		2,235.92
07 72 63 00-0055	SET	72" Length, 144" Width, 3.5" Height, Heavy Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL111-C).....
		2,225.49
07 72 63 00-0056	SET	90" Length, 90" Width, 3.5" Height, Heavy Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL105-C).....
		1,621.47
07 72 63 00-0057	SET	108" Length, 108" Width, 3.5" Height, Heavy Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL112-C).....
		2,247.65
07 72 63 00-0058	SET	120" Length, 120" Width, 3.5" Height, Heavy Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL107-C).....
		3,155.63
07 72 63 00-0059	SET	144" Length, 144" Width, 3.5" Height, Heavy Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL113-C).....
		4,392.37



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
------------------------------	---------------------------	-------------------------

07 73 Roof Protection Board (07 70)

07 73 00 00-0001

Roof Protection Board (07 73)

Note: Use these items for specified related installations with systems per CSI section 07 50 00. Items are for single layer of panels attached per FM I-90 requirements.

07 73 00 00-0002

Cold Adhesive Applied, Roof Protection Board (Georgia-Pacific DensDeck®) (07 73 00 00-0001)

07 73 00 00-0003	SF	1/4" Thick, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board, Cold Adhesive Applied (Georgia-Pacific DensDeck®)	4.03	
		<i>For No Adhesive, Deduct</i>	-0.93	
07 73 00 00-0004	SF	1/2" Thick, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board, Cold Adhesive Applied (Georgia-Pacific DensDeck®)	4.55	0.64
		<i>For No Adhesive, Deduct</i>	-0.95	
07 73 00 00-0005	SF	5/8" Thick, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board, Cold Adhesive Applied (Georgia-Pacific DensDeck®)	4.79	0.70
		<i>For No Adhesive, Deduct</i>	-0.97	
07 73 00 00-0006	SF	1/4" Thick, Surface Primed, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board, Cold Adhesive Applied (Georgia-Pacific DensDeck® Prime)	4.09	0.58
		<i>For No Adhesive, Deduct</i>	-0.93	
07 73 00 00-0007	SF	1/2" Thick, Surface Primed, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board, Cold Adhesive Applied (Georgia-Pacific DensDeck® Prime)	4.64	0.64
		<i>For No Adhesive, Deduct</i>	-0.95	
07 73 00 00-0008	SF	5/8" Thick, Surface Primed, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board, Cold Adhesive Applied (Georgia-Pacific DensDeck® Prime)	4.87	0.70
		<i>For No Adhesive, Deduct</i>	-0.97	

07 73 00 00-0009

Hot-Mopped, Roof Protection Board (Georgia-Pacific DensDeck®) (07 73 00 00-0001)

07 73 00 00-0010	SF	1/4" Thick, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board, Hot-Mopped (Georgia-Pacific DensDeck®)	3.85	0.58
07 73 00 00-0011	SF	1/2" Thick, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board, Hot-Mopped (Georgia-Pacific DensDeck®)	4.40	0.64
07 73 00 00-0012	SF	5/8" Thick, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board, Hot-Mopped (Georgia-Pacific DensDeck®)	4.66	0.70
07 73 00 00-0013	SF	1/4" Thick, Surface Primed, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board, Hot-Mopped (Georgia-Pacific DensDeck® Prime)	3.91	0.58
07 73 00 00-0014	SF	1/2" Thick, Surface Primed, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board, Hot-Mopped (Georgia-Pacific DensDeck® Prime)	4.48	0.64
07 73 00 00-0015	SF	5/8" Thick, Surface Primed, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board, Hot-Mopped (Georgia-Pacific DensDeck® Prime)	4.75	0.70

07 73 00 00-0016

Mechanically Fastened, Roof Protection Board (Georgia-Pacific DensDeck®) (07 73 00 00-0001)

Note: Mechanically fastened to wood or steel.

07 73 00 00-0017	SF	1/4" Thick, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board, Mechanically Fastened (Georgia-Pacific DensDeck®)	3.83	
		<i>For Mechanically Fastened To Concrete, Add</i>	1.57	
		<i>For Mechanically Fastened To Gypsum, Add</i>	2.07	
		<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.72	
		<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.83	
		<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.56	
		<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.09	
		<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.87	
		<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.84	
07 73 00 00-0018	SF	1/2" Thick, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board, Mechanically Fastened (Georgia-Pacific DensDeck®)	4.35	0.64
		<i>For Mechanically Fastened To Concrete, Add</i>	1.57	
		<i>For Mechanically Fastened To Gypsum, Add</i>	2.07	
		<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.72	
		<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.91	
		<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.56	
		<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.09	
		<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.95	
		<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.84	
07 73 00 00-0019	SF	5/8" Thick, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board, Mechanically Fastened (Georgia-Pacific DensDeck®)	4.59	0.70
		<i>For Mechanically Fastened To Concrete, Add</i>	1.57	
		<i>For Mechanically Fastened To Gypsum, Add</i>	2.07	
		<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.72	
		<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.97	
		<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.56	
		<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.09	
		<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	4.01	
		<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.84	

07	Thermal And Moisture Protection
07 70	Roof and Wall Specialties and Accessories
07 73	Roof Protection Board



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 73 00 00-0020 SF 1/4" Thick, Surface Primed, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board, Mechanically Fastened (Georgia-Pacific DensDeck® Prime).....	3.89	0.58
<i>For Mechanically Fastened To Concrete, Add</i>	1.57	
<i>For Mechanically Fastened To Gypsum, Add</i>	2.07	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.72	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.83	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.56	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.09	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.87	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.84	
07 73 00 00-0021 SF 1/2" Thick, Surface Primed, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board, Mechanically Fastened (Georgia-Pacific DensDeck® Prime).....	4.44	0.64
<i>For Mechanically Fastened To Concrete, Add</i>	1.57	
<i>For Mechanically Fastened To Gypsum, Add</i>	2.07	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.72	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.91	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.56	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.09	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	3.95	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.84	
07 73 00 00-0022 SF 5/8" Thick, Surface Primed, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board, Mechanically Fastened (Georgia-Pacific DensDeck® Prime).....	4.67	0.70
<i>For Mechanically Fastened To Concrete, Add</i>	1.57	
<i>For Mechanically Fastened To Gypsum, Add</i>	2.07	
<i>For Mechanically Fastened To Wood Or Steel, >90 To 120 MPH Wind, Add</i>	0.72	
<i>For Mechanically Fastened To Concrete, >90 To 120 MPH Wind, Add</i>	2.97	
<i>For Mechanically Fastened To Gypsum, >90 To 120 MPH Wind, Add</i>	2.56	
<i>For Mechanically Fastened To Wood Or Steel, >120 To 135 MPH Wind, Add</i>	1.09	
<i>For Mechanically Fastened To Concrete, >120 To 135 MPH Wind, Add</i>	4.01	
<i>For Mechanically Fastened To Gypsum, >120 To 135 MPH Wind, Add</i>	3.84	

07 76 Roof Pavers (07 70)**07 76 16 Roof Decking Pavers** (07 76)**07 76 16 00-0001 Roof Pavers** (07 76 16)

Note: For walkway application over roofing system.

07 76 16 00-0002 SF Up To 100 SF, 2" Concrete Roof Paver.....	12.72	7.41
<i>For 1-1/2" Thickness, Deduct</i>	-1.27	
<i>For 2-1/2" Thickness, Add</i>	1.42	
<i>For 3" Thickness, Add</i>	2.85	
07 76 16 00-0003 SF >100 To 200 SF, 2" Concrete Roof Paver.....	11.42	5.59
<i>For 1-1/2" Thickness, Deduct</i>	-1.14	
<i>For 2-1/2" Thickness, Add</i>	1.29	
<i>For 3" Thickness, Add</i>	2.57	
07 76 16 00-0004 SF >200 To 400 SF, 2" Concrete Roof Paver.....	10.69	4.45
<i>For 1-1/2" Thickness, Deduct</i>	-1.07	
<i>For 2-1/2" Thickness, Add</i>	1.20	
<i>For 3" Thickness, Add</i>	2.41	
07 76 16 00-0005 SF >400 To 1,000 SF, 2" Concrete Roof Paver.....	10.25	3.88
<i>For 1-1/2" Thickness, Deduct</i>	-1.03	
<i>For 2-1/2" Thickness, Add</i>	1.15	
<i>For 3" Thickness, Add</i>	2.31	
07 76 16 00-0006 SF >1,000 SF, 2" Concrete Roof Paver.....	9.69	3.53
<i>For 1-1/2" Thickness, Deduct</i>	-0.97	
<i>For 2-1/2" Thickness, Add</i>	1.09	
<i>For 3" Thickness, Add</i>	2.18	

07 76 16 00-0007 Roof Paver Pedestal (07 76 16)

07 76 16 00-0008 EA 2" To 3" High Adjustable Roof Paver Pedestal, 2" Base, 2" Top (Hanover Elevator).....	25.56	1.17
07 76 16 00-0009 EA 3" To 4-3/4" High Adjustable Roof Paver Pedestal, 3" Base, 3" Top (Hanover Elevator).....	26.72	1.17
07 76 16 00-0010 EA 4-3/4" To 7-3/4" High Adjustable Roof Paver Pedestal, 4" Base, 4" Top (Hanover Elevator).....	27.90	1.17
07 76 16 00-0011 EA Adjustable Roof Paver Pedestal Coupler, Adds 2-1/2" To 4" (Hanover Elevator).....	14.25	1.17
07 76 16 00-0012 EA Stay Bar, Used With Roof Paver Pedestals >16' High (Hanover Elevator).....	12.55	1.17
07 76 16 00-0013 EA 5/8" High Tab Roof Paver Pedestal (Hanover High Tab Pedestal).....	12.85	1.17
Note: Stackable.		
07 76 16 00-0014 EA 1/16" And 1/8" Flexible Leveling Plates For Roof Paver Pedestal.....	7.25	1.17
Note: Used with High Tab and Elevator pedestals.		
07 76 16 00-0015 EA Roof Paver Leveling System, Twist To Adjust Pitch (Hanover Compensator).....	9.56	1.17
Note: Each Compensator levels 1/8" of slope and are stackable. Used with High Tab and Elevator pedestals.		

07 76 19 Composite Insulation Concrete Protection Board (07 76)

Note: Manufactured by T. Clear Corp. 25 year warranty.

07 76 19 00-0001 Composite Insulation Concrete Protection Board (07 76 19)

Note: Manufactured by T. Clear Corp. 25 year warranty.

07 76 19 00-0002 SF 2" Extruded Polystyrene Insulation Board Lightguard Composite With 3/8" Latex Modified Concrete, 4.5 PSF.....	6.01	
<i>For 20 Year Warranty, Deduct</i>	-0.36	
<i>For 15 Year Warranty, Deduct</i>	-0.72	
<i>For 10 Year Warranty, Deduct</i>	-0.98	
<i>For Winds >90 MPH To 120 MPH Warranty, Add</i>	0.10	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 76 19 00-0003 SF 3" Extruded Polystyrene Insulation Board Lightguard Composite With 3/8" Latex Modified Concrete, 4.5 PSF.....	7.86	
<i>For 20 Year Warranty, Deduct</i>	-0.51	
<i>For 15 Year Warranty, Deduct</i>	-1.03	
<i>For 10 Year Warranty, Deduct</i>	-1.39	
<i>For Winds >90 MPH To 120 MPH Warranty, Add</i>	0.10	
07 76 19 00-0004 SF 2" Extruded Polystyrene Insulation Board Heavyguard Composite With 15/16" Latex Modified Concrete, 11 PSF	9.23	
<i>For 20 Year Warranty, Deduct</i>	-0.59	
<i>For 15 Year Warranty, Deduct</i>	-1.20	
<i>For 10 Year Warranty, Deduct</i>	-1.62	
<i>For Winds >90 MPH To 120 MPH Warranty, Add</i>	0.10	
07 76 19 00-0005 SF 3" Extruded Polystyrene Insulation Board Heavyguard Composite With 15/16" Latex Modified Concrete, 11 PSF	11.16	
<i>For 20 Year Warranty, Deduct</i>	-0.75	
<i>For 15 Year Warranty, Deduct</i>	-1.50	
<i>For 10 Year Warranty, Deduct</i>	-2.03	
<i>For Winds >90 MPH To 120 MPH Warranty, Add</i>	0.10	

07 80 Fire and Smoke Protection (07)

07 81 Applied Fireproofing (07 80)

Note: Includes bonding agents as required.

07 81 16 Cementitious Fireproofing (07 81)

07 81 16 00-0001 Monokote Fireproofing (07 81 16)

07 81 16 00-0002 SF Monokote Fireproofing For Ceiling/Decking, Per Inch Of Thickness.....	2.24	0.76
07 81 16 00-0003 SF Monokote Fireproofing For Structural Steel, Per Inch Of Thickness.....	3.09	1.14

07 81 16 00-0004 Gunitite Fireproofing (07 81 16)

07 81 16 00-0005 SF 1" Thick, Non-Reinforced, Gunitite Fireproofing	3.16	0.77
07 81 16 00-0006 SF 1" Thick, Reinforced, Gunitite Fireproofing	4.43	0.77

07 81 23 Intumescent Fireproofing (07 81)

07 81 23 00-0001 Intumescent Thin Film Fireproofing (Albi Clad TF) (07 81 23)

07 81 23 00-0002 Intumescent Thin Film Fireproofing For Beams (Albi Clad TF) (07 81 23 00-0001)

Note: Excludes primer.

07 81 23 00-0003 SF 1 Hour, Intumescent Thin Film Fireproofing For Beams (Albi Clad TF)	17.37	
<i>For >10,000, Deduct</i>	-1.67	
07 81 23 00-0004 SF 1-1/2 Hour, Intumescent Thin Film Fireproofing For Beams (Albi Clad TF)	27.94	
<i>For >10,000, Deduct</i>	-2.72	

07 81 23 00-0005 Intumescent Thin Film Fireproofing For Wide Flange Columns (Albi Clad TF) (07 81 23 00-0001)

Note: Excludes primer.

07 81 23 00-0006 SF 1 Hour, Intumescent Thin Film Fireproofing For Wide Flange Columns (Albi Clad TF)	11.25	
<i>For >10,000, Deduct</i>	-1.05	
07 81 23 00-0007 SF 1-1/2 Hour, Intumescent Thin Film Fireproofing For Wide Flange Columns (Albi Clad TF)	25.02	
<i>For >10,000, Deduct</i>	-2.42	
07 81 23 00-0008 SF 2 Hour, Intumescent Thin Film Fireproofing For Wide Flange Columns (Albi Clad TF)	56.71	
<i>For >10,000, Deduct</i>	-5.59	
07 81 23 00-0009 SF 2-1/2 Hour, Intumescent Thin Film Fireproofing For Wide Flange Columns (Albi Clad TF)	78.09	
<i>For >10,000, Deduct</i>	-7.72	
07 81 23 00-0010 SF 3 Hour, Intumescent Thin Film Fireproofing For Wide Flange Columns (Albi Clad TF)	99.49	
<i>For >10,000, Deduct</i>	-9.86	
07 81 23 00-0011 SF 3-1/2 Hour, Intumescent Thin Film Fireproofing For Wide Flange Columns (Albi Clad TF)	120.91	
<i>For >10,000, Deduct</i>	-11.99	

07 81 23 00-0012 Intumescent Thin Film Fireproofing For Hollow Section Columns (Albi Clad TF) (07 81 23 00-0001)

Note: Excludes primer.

07 81 23 00-0013 SF 1 Hour, Intumescent Thin Film Fireproofing For Hollow Section Columns (Albi Clad TF)	22.79	
<i>For >10,000, Deduct</i>	-2.20	
07 81 23 00-0014 SF 1-1/2 Hour, Intumescent Thin Film Fireproofing For Hollow Section Columns (Albi Clad TF)	42.42	
<i>For >10,000, Deduct</i>	-4.16	
07 81 23 00-0015 SF 2 Hour, Intumescent Thin Film Fireproofing For Hollow Section Columns (Albi Clad TF)	67.36	
<i>For >10,000, Deduct</i>	-6.65	
07 81 23 00-0016 SF 2-1/2 Hour, Intumescent Thin Film Fireproofing For Hollow Section Columns (Albi Clad TF)	94.09	
<i>For >10,000, Deduct</i>	-9.32	
07 81 23 00-0017 SF 3 Hour, Intumescent Thin Film Fireproofing For Hollow Section Columns (Albi Clad TF)	119.04	
<i>For >10,000, Deduct</i>	-11.81	

07 81 23 00-0018 Intumescent Thin Film Fireproofing (Albi Clad FP) (07 81 23)

07 81 23 00-0019 Intumescent Thin Film Fireproofing For Exposed Wood, Wallboard And Non-Ferrous Substrates (Albi Clad FP) (07 81 23 00-0018)

Note: Excludes primer.

07 Thermal And Moisture Protection**07 80 Fire and Smoke Protection****07 81 Applied Fireproofing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 81 23 00-0020 SF 1 Hour, Intumescent Thin Film Fireproofing For Exposed Wood, Wallboard And Non-Ferrous Substrates (Albi Clad FP)	11.03	
For >10,000, Deduct	-1.05	
07 81 23 00-0021 SF 1-1/2 Hour, Intumescent Thin Film Fireproofing For Exposed Wood, Wallboard And Non-Ferrous Substrates (Albi Clad FP)	25.19	
For >10,000, Deduct	-2.46	
07 81 23 00-0022 SF 2 Hour, Intumescent Thin Film Fireproofing For Exposed Wood, Wallboard And Non-Ferrous Substrates (Albi Clad FP)	57.80	
For >10,000, Deduct	-5.72	
07 81 23 00-0023 SF 2-1/2 Hour, Intumescent Thin Film Fireproofing For Exposed Wood, Wallboard And Non-Ferrous Substrates (Albi Clad FP)	79.78	
For >10,000, Deduct	-7.91	
07 81 23 00-0024 SF 3 Hour, Intumescent Thin Film Fireproofing For Exposed Wood, Wallboard And Non-Ferrous Substrates (Albi Clad FP)	101.79	
For >10,000, Deduct	-10.11	
07 81 33 Mineral-Fiber Fireproofing (07 81)		
07 81 33 00-0001 Cellulose Fireproofing (07 81 33)		
07 81 33 00-0002 SF Cellulose Fireproofing, Per Inch Of Thickness	2.75	0.77
07 84 Firestopping (07 80)		
07 84 13 Penetration Firestopping (07 84)		
07 84 13 16 Penetration Firestopping Devices (07 84 13)		
07 84 13 16-0001 Firestopping Systems For Cable Penetrations (07 84 13 16)		
07 84 13 16-0002 Intumescent Firestop Cable Sleeve For New Installations (07 84 13 16-0001)		
Note: Includes putty, escutcheon plates, gaskets and bushings.		
07 84 13 16-0003 EA 1" Diameter Intumescent Firestop Sleeve (STI FS100)	70.46	
07 84 13 16-0004 EA 2" Diameter Intumescent Firestop Sleeve (STI FS201)	94.52	
07 84 13 16-0005 EA 4" Diameter Intumescent Firestop Sleeve (STI FS401)	153.05	
07 84 13 16-0006 Intumescent Firestop Cable Pathway For New Or Existing Cable Installations (07 84 13 16-0001)		
Note: Includes pathway, putty and wall/floor mounting plates.		
07 84 13 16-0007 EA 1-1/64" x 1-1/64" Intumescent Firestop Cable Pathway Through Up To 9" Thick Walls (STI EZD22)	128.12	
07 84 13 16-0008 EA 3" x 3" Intumescent Firestop Cable Pathway Through Up To 9" Thick Walls (STI EZDP33FWS)	224.39	
07 84 13 16-0009 EA 4" x 4-5/8" Intumescent Firestop Cable Pathway Through Up To 10" Thick Walls (STI EZDP44)	410.40	
07 84 13 16-0010 3M Intumescent Firestopping Multi-Trade Pass Through Device (07 84 13 16)		
07 84 13 16-0011 EA 2-1/2" Square Opening, Intumescent Firestop Multi-Trade Pass Through Device (3M QP2.5SD)	289.24	
07 84 13 16-0012 EA 4" Square Opening, Intumescent Firestop Multi-Trade Pass Through Device (3M QP4SD)	267.98	
07 84 13 16-0013 EA 4" Diameter Intumescent Firestop Multi-Trade Pass Through Device (3M QP2.5SD)	276.06	
07 84 13 16-0014 Intumescent Firestopping Pipe Collar (07 84 13 16)		
07 84 13 16-0015 EA 1-1/2" Intumescent Firestop Pipe Collar (3M ULTRAPPD1.5)	49.12	15.31
07 84 13 16-0016 EA 2" Intumescent Firestop Pipe Collar (3M ULTRAPPD2.0)	58.02	15.31
07 84 13 16-0017 EA 3" Intumescent Firestop Pipe Collar (3M ULTRAPPD3.0)	67.12	16.85
07 84 13 16-0018 EA 4" Intumescent Firestop Pipe Collar (3M ULTRAPPD4.0)	102.30	19.14
07 84 13 16-0019 EA 8" Intumescent Firestop Pipe Collar (Hilti CP644 8")	475.60	22.97
07 84 13 16-0020 EA 10" Intumescent Firestop Pipe Collar (Hilti CP644 10")	612.76	25.27
07 84 13 16-0021 Fire Rated Enclosures (Fire Rated Product Specialties Corp.) (07 84 13 16)		
Note: Includes fasteners. Excludes additional perimeter caulk where required. See CSI section 07 84 43 00-0001 for perimeter sealant caulk where required.		
07 84 13 16-0022 EA 12.2" Wide x 20.2" Long x 9.5" Deep Fire Rated Enclosure, 1 Hour Rated (FRPS #FN-Z-12-20-9)	178.04	
Note: Used for recessed lighting, speakers, controls, valves, plumbing drain terminations, etc.		
07 84 13 16-0023 EA 15.2" Wide x 16.2" Long x 9.5" Deep Fire Rated Enclosure, 1 Hour Rated (FRPS #FN-Z-15-16-9)	188.53	
Note: Used for recessed lighting, speakers, controls, valves, plumbing drain terminations, etc.		
07 84 13 16-0024 EA 11.8" Wide x 19.8" Long x 9.12" Deep Fire Rated Enclosure, 1 Hour Rated (FRPS #FN-Z-12-20-9-EXH)	368.00	
Note: Includes 4" duct connector. For use with bathroom ventilation and exhaust fans.		
07 84 13 16-0025 EA 14.0" Wide x 14.0" Long x 3.2" Deep Fire Rated Enclosure, 1 Hour Rated (FRPS #FN-Z-14-14-3)	234.64	
Note: Used for shut-off valves, shower and tub valves, washer boxes, icemaker water feeds, speakers, controls, junction boxes, etc.		
07 84 13 16-0026 Intumescent Firestopping Wrap Strips (07 84 13 16)		
07 84 13 16-0027 LF 1/8" Thick, 1-1/2" Wide, Intumescent Firestopping Wrap Strip (STI SpecSeal SSW Series)	7.12	
07 84 13 19 Penetration Firestopping Caulk (07 84 13)		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
-------	-----	-----	-------------	------------------------	----------------------

07 84 13 19-0001			Intumescent Firestopping For Sealing Pipe Penetrations (3M CP 25WB+) ⁰⁷ <small>84 13 19</small> Note: Includes firestop caulk and batt for floor or ceiling penetration or one side of a wall penetration. 1/2" thick caulk for annular spaces 1" and less. 1" thick caulk for annular spaces 1-1/4" or more.		
07 84 13 19-0002	EA		1" Diameter Hole With 1/2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....	25.58	
			<i>For Intumescent Sealant For Plastic Pipe, Add</i>	0.08	
07 84 13 19-0003	EA		1-1/2" Diameter Hole With 1/2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....	31.48	
			<i>For Intumescent Sealant For Plastic Pipe, Add</i>	0.40	
07 84 13 19-0004	EA		1-1/2" Diameter Hole With 3/4" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....	31.22	
			<i>For Intumescent Sealant For Plastic Pipe, Add</i>	0.30	
07 84 13 19-0005	EA		1-1/2" Diameter Hole With 1" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....	30.80	
			<i>For Intumescent Sealant For Plastic Pipe, Add</i>	0.13	
07 84 13 19-0006	EA		2" Diameter Hole With 1/2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....	36.45	
			<i>For Intumescent Sealant For Plastic Pipe, Add</i>	0.86	
07 84 13 19-0007	EA		2" Diameter Hole With 3/4" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....	36.19	
			<i>For Intumescent Sealant For Plastic Pipe, Add</i>	0.76	
07 84 13 19-0008	EA		2" Diameter Hole With 1" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....	35.77	
			<i>For Intumescent Sealant For Plastic Pipe, Add</i>	0.59	
07 84 13 19-0009	EA		2" Diameter Hole With 1-1/4" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....	35.11	
			<i>For Intumescent Sealant For Plastic Pipe, Add</i>	0.33	
07 84 13 19-0010	EA		2" Diameter Hole With 1-1/2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....	34.55	
			<i>For Intumescent Sealant For Plastic Pipe, Add</i>	0.10	
07 84 13 19-0011	EA		2-1/2" Diameter Hole With 1/2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....	44.26	
			<i>For Intumescent Sealant For Plastic Pipe, Add</i>	1.45	
07 84 13 19-0012	EA		2-1/2" Diameter Hole With 3/4" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....	44.01	
			<i>For Intumescent Sealant For Plastic Pipe, Add</i>	1.35	
07 84 13 19-0013	EA		2-1/2" Diameter Hole With 1" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....	43.57	
			<i>For Intumescent Sealant For Plastic Pipe, Add</i>	1.18	
07 84 13 19-0014	EA		2-1/2" Diameter Hole With 1-1/4" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....	42.91	
			<i>For Intumescent Sealant For Plastic Pipe, Add</i>	0.91	
07 84 13 19-0015	EA		2-1/2" Diameter Hole With 1-1/2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....	42.36	
			<i>For Intumescent Sealant For Plastic Pipe, Add</i>	0.69	
07 84 13 19-0016	EA		2-1/2" Diameter Hole With 2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....	41.03	
			<i>For Intumescent Sealant For Plastic Pipe, Add</i>	0.16	
07 84 13 19-0017	EA		3" Diameter Hole With 1/2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....	60.57	
			<i>For Intumescent Sealant For Plastic Pipe, Add</i>	3.91	
07 84 13 19-0018	EA		3" Diameter Hole With 3/4" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....	55.98	
			<i>For Intumescent Sealant For Plastic Pipe, Add</i>	2.07	
07 84 13 19-0019	EA		3" Diameter Hole With 1" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....	55.55	
			<i>For Intumescent Sealant For Plastic Pipe, Add</i>	1.90	
07 84 13 19-0020	EA		3" Diameter Hole With 1-1/4" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....	54.89	
			<i>For Intumescent Sealant For Plastic Pipe, Add</i>	1.64	
07 84 13 19-0021	EA		3" Diameter Hole With 1-1/2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....	54.33	
			<i>For Intumescent Sealant For Plastic Pipe, Add</i>	1.41	
07 84 13 19-0022	EA		3" Diameter Hole With 2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....	53.00	
			<i>For Intumescent Sealant For Plastic Pipe, Add</i>	0.88	
07 84 13 19-0023	EA		3" Diameter Hole With 2-1/2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....	51.28	
			<i>For Intumescent Sealant For Plastic Pipe, Add</i>	0.19	
07 84 13 19-0024	EA		4" Diameter Hole With 1/2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....	81.52	
			<i>For Intumescent Sealant For Plastic Pipe, Add</i>	7.21	
07 84 13 19-0025	EA		4" Diameter Hole With 3/4" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....	81.05	
			<i>For Intumescent Sealant For Plastic Pipe, Add</i>	7.02	
07 84 13 19-0026	EA		4" Diameter Hole With 1" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....	80.29	
			<i>For Intumescent Sealant For Plastic Pipe, Add</i>	6.72	
07 84 13 19-0027	EA		4" Diameter Hole With 1-1/4" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....	79.10	
			<i>For Intumescent Sealant For Plastic Pipe, Add</i>	6.24	
07 84 13 19-0028	EA		4" Diameter Hole With 1-1/2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....	78.09	
			<i>For Intumescent Sealant For Plastic Pipe, Add</i>	5.84	
07 84 13 19-0029	EA		4" Diameter Hole With 2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....	70.27	
			<i>For Intumescent Sealant For Plastic Pipe, Add</i>	2.71	
07 84 13 19-0030	EA		4" Diameter Hole With 2-1/2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....	68.56	
			<i>For Intumescent Sealant For Plastic Pipe, Add</i>	2.03	
07 84 13 19-0031	EA		4" Diameter Hole With 3" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....	65.95	
			<i>For Intumescent Sealant For Plastic Pipe, Add</i>	0.98	
07 84 13 19-0032	EA		6" Diameter Hole With 1/2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....	130.50	
			<i>For Intumescent Sealant For Plastic Pipe, Add</i>	16.64	
07 84 13 19-0033	EA		6" Diameter Hole With 3/4" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....	130.03	
			<i>For Intumescent Sealant For Plastic Pipe, Add</i>	16.45	
07 84 13 19-0034	EA		6" Diameter Hole With 1" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....	129.27	
			<i>For Intumescent Sealant For Plastic Pipe, Add</i>	16.15	
07 84 13 19-0035	EA		6" Diameter Hole With 1-1/4" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....	128.08	
			<i>For Intumescent Sealant For Plastic Pipe, Add</i>	15.67	
07 84 13 19-0036	EA		6" Diameter Hole With 1-1/2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....	127.08	
			<i>For Intumescent Sealant For Plastic Pipe, Add</i>	15.27	
07 84 13 19-0037	EA		6" Diameter Hole With 2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....	124.69	
			<i>For Intumescent Sealant For Plastic Pipe, Add</i>	14.32	
07 84 13 19-0038	EA		6" Diameter Hole With 2-1/2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....	121.59	
			<i>For Intumescent Sealant For Plastic Pipe, Add</i>	13.08	
07 84 13 19-0039	EA		6" Diameter Hole With 3" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....	116.90	
			<i>For Intumescent Sealant For Plastic Pipe, Add</i>	11.20	
07 84 13 19-0040	EA		6" Diameter Hole With 4" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....	99.22	
			<i>For Intumescent Sealant For Plastic Pipe, Add</i>	4.13	
07 84 13 19-0041	EA		8" Diameter Hole With 2-1/2" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+).....	173.63	
			<i>For Intumescent Sealant For Plastic Pipe, Add</i>	26.28	

07 Thermal And Moisture Protection**07 80 Fire and Smoke Protection****07 84 Firestopping**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 84 13 19-0042	EA		8" Diameter Hole With 3" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+) <i>For Intumescent Sealant For Plastic Pipe, Add</i>	168.93 24.40	
07 84 13 19-0043	EA		8" Diameter Hole With 4" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+) <i>For Intumescent Sealant For Plastic Pipe, Add</i>	159.51 20.63	
07 84 13 19-0044	EA		8" Diameter Hole With 6" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+) <i>For Intumescent Sealant For Plastic Pipe, Add</i>	121.07 5.25	
07 84 13 19-0045	EA		10" Diameter Hole With 4" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+) <i>For Intumescent Sealant For Plastic Pipe, Add</i>	221.00 37.60	
07 84 13 19-0046	EA		10" Diameter Hole With 6" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+) <i>For Intumescent Sealant For Plastic Pipe, Add</i>	193.05 26.42	
07 84 13 19-0047	EA		10" Diameter Hole With 8" Pipe, Sealed With Intumescent Firestop Sealant (3M CP 25WB+) <i>For Intumescent Sealant For Plastic Pipe, Add</i>	143.70 6.68	
07 84 13 19-0048			Smoke, Noise And Infectious/Dust Control Sealant For Sealing Pipe Penetrations <small>(07 84 13 19)</small>		
			Note: Includes sealant and fiberglass or mineral wool batt for floor, ceiling or wall penetrations.		
07 84 13 19-0049	EA		1-1/2" Diameter Hole With 1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	30.82	
07 84 13 19-0050	EA		1-1/2" Diameter Hole With 3/4" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	30.72	
07 84 13 19-0051	EA		1-1/2" Diameter Hole With 1" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	30.58	
07 84 13 19-0052	EA		2" Diameter Hole With 1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	35.01	
07 84 13 19-0053	EA		2" Diameter Hole With 3/4" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	34.91	
07 84 13 19-0054	EA		2" Diameter Hole With 1" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	34.78	
07 84 13 19-0055	EA		2" Diameter Hole With 1-1/4" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	34.58	
07 84 13 19-0056	EA		2" Diameter Hole With 1-1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	34.39	
07 84 13 19-0057	EA		2.5" Diameter Hole With 1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	41.88	
07 84 13 19-0058	EA		2.5" Diameter Hole With 3/4" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	41.79	
07 84 13 19-0059	EA		2.5" Diameter Hole With 1" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	41.65	
07 84 13 19-0060	EA		2.5" Diameter Hole With 1-1/4" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	41.44	
07 84 13 19-0061	EA		2.5" Diameter Hole With 1-1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	41.26	
07 84 13 19-0062	EA		2.5" Diameter Hole With 2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	40.81	
07 84 13 19-0063	EA		3" Diameter Hole With 1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	52.65	
07 84 13 19-0064	EA		3" Diameter Hole With 3/4" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	52.56	
07 84 13 19-0065	EA		3" Diameter Hole With 1" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	52.42	
07 84 13 19-0066	EA		3" Diameter Hole With 1-1/4" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	52.21	
07 84 13 19-0067	EA		3" Diameter Hole With 1-1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	52.03	
07 84 13 19-0068	EA		3" Diameter Hole With 2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	51.58	
07 84 13 19-0069	EA		3" Diameter Hole With 2-1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	50.94	
07 84 13 19-0070	EA		4" Diameter Hole With 1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	66.93	
07 84 13 19-0071	EA		4" Diameter Hole With 3/4" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	66.83	
07 84 13 19-0072	EA		4" Diameter Hole With 1" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	66.70	
07 84 13 19-0073	EA		4" Diameter Hole With 1-1/4" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	66.47	
07 84 13 19-0074	EA		4" Diameter Hole With 1-1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	66.26	
07 84 13 19-0075	EA		4" Diameter Hole With 2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	65.80	
07 84 13 19-0076	EA		4" Diameter Hole With 2-1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	65.23	
07 84 13 19-0077	EA		4" Diameter Hole With 3" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	64.32	
07 84 13 19-0078	EA		6" Diameter Hole With 1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	96.83	
07 84 13 19-0079	EA		6" Diameter Hole With 3/4" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	96.73	
07 84 13 19-0080	EA		6" Diameter Hole With 1" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	96.60	
07 84 13 19-0081	EA		6" Diameter Hole With 1-1/4" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	96.39	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 84 13 19-0082 EA 6" Diameter Hole With 1-1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	96.21	
07 84 13 19-0083 EA 6" Diameter Hole With 2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	95.76	
07 84 13 19-0084 EA 6" Diameter Hole With 2-1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	95.12	
07 84 13 19-0085 EA 6" Diameter Hole With 3" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	94.27	
07 84 13 19-0086 EA 6" Diameter Hole With 4" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	92.41	
07 84 13 19-0087 EA 8" Diameter Hole With 2-1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	120.47	
07 84 13 19-0088 EA 8" Diameter Hole With 3" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	119.61	
07 84 13 19-0089 EA 8" Diameter Hole With 4" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	117.75	
07 84 13 19-0090 EA 8" Diameter Hole With 6" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	112.48	
07 84 13 19-0091 EA 10" Diameter Hole With 4" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	144.92	
07 84 13 19-0092 EA 10" Diameter Hole With 6" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	139.65	
07 84 13 19-0093 EA 10" Diameter Hole With 8" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	132.68	

07 84 16 Annular Space Firestopping Protection (07 84)

07 84 16 00-0001 Intumescent Firestopping For Electrical Outlet Boxes (07 84 16)

07 84 16 00-0002 Intumescent Putty Pads For Wrapping Outlet Box Exteriors (07 84 16 00-0001)

07 84 16 00-0003 EA 1 Gang Outlet Box, Intumescent Firestop Putty Exterior Wrap (3M MPP+).....	39.53
07 84 16 00-0004 EA 2 Gang Outlet Box, Intumescent Firestop Putty Exterior Wrap (3M MPP+).....	56.21
07 84 16 00-0005 EA 3 Gang Outlet Box, Intumescent Firestop Putty Exterior Wrap (3M MPP+).....	58.74
07 84 16 00-0006 EA 4 Gang Outlet Box, Intumescent Firestop Putty Exterior Wrap (3M MPP+).....	61.29
07 84 16 00-0007 EA 5 Gang Outlet Box, Intumescent Firestop Putty Exterior Wrap (3M MPP+).....	63.82
07 84 16 00-0008 EA 6 Gang Outlet Box, Intumescent Firestop Putty Exterior Wrap (3M MPP+).....	80.51

07 84 16 00-0009 Intumescent Firestop Gasket For Wall Plates (07 84 16 00-0001)

07 84 16 00-0010 EA Single Switch Wall Plate, Intumescent Firestop Gasket (RectorSeal 66276).....	16.11
07 84 16 00-0011 EA Double Switch Wall Plate, Intumescent Firestop Gasket (RectorSeal 66274).....	16.71
07 84 16 00-0012 EA Single Receptacle Wall Plate, Intumescent Firestop Gasket (RectorSeal 66272).....	15.60
07 84 16 00-0013 EA Double Receptacle Wall Plate, Intumescent Firestop Gasket (RectorSeal 66270).....	16.75
07 84 16 00-0014 EA Single Decor Wall Plate, Intumescent Firestop Gasket (RectorSeal 66266).....	16.30
07 84 16 00-0015 EA Double Decor Wall Plate, Intumescent Firestop Gasket (RectorSeal 66265).....	15.68

07 84 16 00-0016 Intumescent Fire Barrier Pillows For Sealing Large Openings (07 84 16)

07 84 16 00-0017 EA 2" x 4" x 9" Intumescent Fire Barrier Pillow (3M FB249).....	40.09
07 84 16 00-0018 EA 2" x 6" x 9" Intumescent Fire Barrier Pillow (3M FB269).....	42.99
07 84 16 00-0019 EA 3" x 6" x 9" Intumescent Fire Barrier Pillow (3M FB369).....	46.57

07 84 16 00-0020 Intumescent Fire Barrier Sheets For Sealing Large Openings (07 84 16)

Note: Price includes intumescent sheet, mounting fasteners and caulk for sealing one side of an opening.

07 84 16 00-0021 EA 16" x 28" Intumescent Firestop Sheet (3M CS-195+16x28).....	367.56
07 84 16 00-0022 EA 36" x 24" Intumescent Firestop Sheet (3M CS-195+3x2).....	516.24
07 84 16 00-0023 EA 36" x 36" Intumescent Firestop Sheet (3M CS-195+3x3).....	697.04

07 84 16 00-0024 Endothermic Mat Wrap Fire Barrier (07 84 16)

Note: Price includes endothermic mat wrap and sealant. Excludes cavity fill material; putty or fireproof caulk/sealant. See CSI section 07 84 16 00-0026 for filling openings.

07 84 16 00-0025 SF 0.408" Thick Aluminum Foil Faced Endothermic Mat (3M Interam E-5A-4).....	55.62
---	-------

07 84 16 00-0026 Firestopping Caulk For Filling Opening (07 84 16)

07 84 16 00-0027 GAL Latex Based Intumescent Fire Barrier Sealant (3M CP-25WB+).....	153.74
--	--------

07 84 16 00-0028 Firestopping Mortar For Filling Opening (07 84 16)

07 84 16 00-0029 CF Light-Weight Portland Cement-Based Firestop Mortar (STI SpecSeal SSM Series).....	183.02
---	--------

07 84 23 Silicone Firestopping Foams (07 84)

07 84 23 00-0001 Silicone RTV Foam Seal For Blank Openings (07 84 23)

Note: Includes 7" depth of silicone foam barrier and 1" depth backer board

07 84 23 00-0002 EA 2" Diameter Hole Sealed With Room Temperature Vulcanizing Silicone Fire Barrier Foam.....	47.78
07 84 23 00-0003 EA 4" Diameter Hole Sealed With Room Temperature Vulcanizing Silicone Fire Barrier Foam.....	103.66
07 84 23 00-0004 EA 6" Diameter Hole Sealed With Room Temperature Vulcanizing Silicone Fire Barrier Foam.....	184.53

07 Thermal And Moisture Protection

07 80 Fire and Smoke Protection

07 84 Firestopping



MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
07 84 23 00-0005	EA	8" Diameter Hole Sealed With Room Temperature Vulcanizing Silicone Fire Barrier Foam.....		274.34	
07 84 23 00-0006	EA	10" Diameter Hole Sealed With Room Temperature Vulcanizing Silicone Fire Barrier Foam.....		389.00	
07 84 23 00-0007	EA	12" Diameter Hole Sealed With Room Temperature Vulcanizing Silicone Fire Barrier Foam.....		525.40	
07 84 43		Joint Firestopping ^(07 84)			
07 84 43 00-0001		Intumescent Firestopping Sealant For Joints (3M CP 25WB+) ^(07 84 43)			
07 84 43 00-0002	CLF	1/4" x 1/4" Joint, Intumescent Firestop Sealant (3M CP 25WB+)		442.95	114.29
		For Up To 6 CLF, Add		24.65	
		For >30 CLF, Deduct		-27.15	
		For Silicone Sealant (Bio Fireshield BFS 100 or 200), add		15.01	
07 84 43 00-0003	CLF	1/4" x 3/8" Joint, Intumescent Firestop Sealant (3M CP 25WB+)		493.03	114.29
		For Up To 4 CLF, Add		28.41	
		For >20 CLF, Deduct		-32.16	
		For Silicone Sealant (Bio Fireshield BFS 100 or 200), add		22.52	
07 84 43 00-0004	CLF	1/4" x 1/2" Joint, Intumescent Firestop Sealant (3M CP 25WB+)		555.77	118.10
		For Up To 3 CLF, Add		32.79	
		For >15 CLF, Deduct		-37.80	
		For Silicone Sealant (Bio Fireshield BFS 100 or 200), add		30.03	
07 84 43 00-0005	CLF	3/8" x 3/8" Joint, Intumescent Firestop Sealant (3M CP 25WB+)		580.80	118.10
		For Up To 2.5 CLF, Add		34.67	
		For >13 CLF, Deduct		-40.30	
		For Silicone Sealant (Bio Fireshield BFS 100 or 200), add		33.78	
07 84 43 00-0006	CLF	3/8" x 1/2" Joint, Intumescent Firestop Sealant (3M CP 25WB+)		655.87	118.10
		For Up To 2 CLF, Add		40.30	
		For >10 CLF, Deduct		-47.81	
		For Silicone Sealant (Bio Fireshield BFS 100 or 200), add		45.05	
07 84 43 00-0007	CLF	3/8" x 5/8" Joint, Intumescent Firestop Sealant (3M CP 25WB+)		730.95	118.10
		For Up To 1.5 CLF, Add		45.93	
		For >8 CLF, Deduct		-55.32	
		For Silicone Sealant (Bio Fireshield BFS 100 or 200), add		56.31	
07 84 43 00-0008	CLF	3/8" x 3/4" Joint, Intumescent Firestop Sealant (3M CP 25WB+)		818.73	123.18
		For Up To 1.3 CLF, Add		52.20	
		For >7 CLF, Deduct		-63.46	
		For Silicone Sealant (Bio Fireshield BFS 100 or 200), add		67.57	
07 84 43 00-0009	CLF	1/2" x 1/2" Joint, Intumescent Firestop Sealant (3M CP 25WB+)		768.67	123.18
		For Up To 1.4 CLF, Add		48.44	
		For >7.5 CLF, Deduct		-58.45	
		For Silicone Sealant (Bio Fireshield BFS 100 or 200), add		60.06	
07 84 43 00-0010	CLF	1/2" x 5/8" Joint, Intumescent Firestop Sealant (3M CP 25WB+)		881.48	126.99
		For Up To 1.15 CLF, Add		56.59	
		For >6 CLF, Deduct		-69.10	
		For Silicone Sealant (Bio Fireshield BFS 100 or 200), add		75.08	
07 84 43 00-0011	CLF	1/2" x 3/4" Joint, Intumescent Firestop Sealant (3M CP 25WB+)		981.58	126.99
		For Up To 1 CLF, Add		64.09	
		For >5 CLF, Deduct		-79.11	
		For Silicone Sealant (Bio Fireshield BFS 100 or 200), add		90.09	
07 84 43 00-0012	CLF	1/2" x 7/8" Joint, Intumescent Firestop Sealant (3M CP 25WB+)		1,094.37	130.79
		For Up To 0.8 CLF, Add		72.24	
		For >4.5 CLF, Deduct		-89.75	
		For Silicone Sealant (Bio Fireshield BFS 100 or 200), add		105.11	
07 84 43 00-0013	CLF	1/2" x 1" Joint, Intumescent Firestop Sealant (3M CP 25WB+)		1,207.17	135.87
		For Up To 0.75 CLF, Add		80.38	
		For >4 CLF, Deduct		-100.40	
		For Silicone Sealant (Bio Fireshield BFS 100 or 200), add		120.12	
07 84 43 00-0014	CLF	3/4" x 3/4" Joint, Intumescent Firestop Sealant (3M CP 25WB+)		1,319.98	139.69
		For Up To 0.65 CLF, Add		88.52	
		For >3.5 CLF, Deduct		-111.04	
		For Silicone Sealant (Bio Fireshield BFS 100 or 200), add		135.14	
07 84 43 00-0015	CLF	3/4" x 1" Joint, Intumescent Firestop Sealant (3M CP 25WB+)		1,658.37	152.39
		For Up To 0.5 CLF, Add		112.95	
		For >2.5 CLF, Deduct		-142.98	
		For Silicone Sealant (Bio Fireshield BFS 100 or 200), add		180.18	
07 84 43 00-0016	CLF	1" x 1" Joint, Intumescent Firestop Sealant (3M CP 25WB+)		2,109.57	168.89
		For Up To 0.4 CLF, Add		145.52	
		For >2 CLF, Deduct		-185.56	
		For Silicone Sealant (Bio Fireshield BFS 100 or 200), add		240.24	
07 84 43 00-0017		Latex-Based, Intumescent Firestop Sealant For Joints (STI SSS Series) ^(07 84)			
07 84 43 00-0018	CLF	1/4" x 1/4" Joint, Latex-Based, Intumescent Firestop Sealant (STI SSS Series)		456.89	114.29
		For Up To 6 CLF, Add		25.70	
		For >30 CLF, Deduct		-28.55	
07 84 43 00-0019	CLF	1/4" x 3/8" Joint, Latex-Based, Intumescent Firestop Sealant (STI SSS Series)		513.90	114.29
		For Up To 4 CLF, Add		29.97	
		For >20 CLF, Deduct		-34.25	
07 84 43 00-0020	CLF	1/4" x 1/2" Joint, Latex-Based, Intumescent Firestop Sealant (STI SSS Series)		583.61	118.10
		For Up To 3 CLF, Add		34.88	
		For >15 CLF, Deduct		-40.58	
07 84 43 00-0021	CLF	3/8" x 3/8" Joint, Latex-Based, Intumescent Firestop Sealant (STI SSS Series)		612.11	118.10
		For Up To 2.5 CLF, Add		37.02	
		For >13 CLF, Deduct		-43.43	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 84 43 00-0022 CLF 3/8" x 1/2" Joint, Latex-Based, Intumescent Firestop Sealant (STI SSS Series)	697.63	118.10
<i>For Up To 2 CLF, Add</i>	43.43	
<i>For >10 CLF, Deduct</i>	-51.98	
07 84 43 00-0023 CLF 3/8" x 5/8" Joint, Latex-Based, Intumescent Firestop Sealant (STI SSS Series)	783.14	118.10
<i>For Up To 1.5 CLF, Add</i>	49.85	
<i>For >8 CLF, Deduct</i>	-60.54	
07 84 43 00-0024 CLF 3/8" x 3/4" Joint, Latex-Based, Intumescent Firestop Sealant (STI SSS Series)	881.35	123.18
<i>For Up To 1.3 CLF, Add</i>	56.89	
<i>For >7 CLF, Deduct</i>	-69.72	
07 84 43 00-0025 CLF 1/2" x 1/2" Joint, Latex-Based, Intumescent Firestop Sealant (STI SSS Series)	824.35	123.18
<i>For Up To 1.4 CLF, Add</i>	52.62	
<i>For >7.5 CLF, Deduct</i>	-64.02	
07 84 43 00-0026 CLF 1/2" x 5/8" Joint, Latex-Based, Intumescent Firestop Sealant (STI SSS Series)	951.06	126.99
<i>For Up To 1.15 CLF, Add</i>	61.81	
<i>For >6 CLF, Deduct</i>	-76.06	
07 84 43 00-0027 CLF 1/2" x 3/4" Joint, Latex-Based, Intumescent Firestop Sealant (STI SSS Series)	1,065.08	126.99
<i>For Up To 1 CLF, Add</i>	70.36	
<i>For >5 CLF, Deduct</i>	-87.46	
07 84 43 00-0028 CLF 1/2" x 7/8" Joint, Latex-Based, Intumescent Firestop Sealant (STI SSS Series)	1,191.79	130.79
<i>For Up To 0.8 CLF, Add</i>	79.54	
<i>For >4.5 CLF, Deduct</i>	-99.50	
07 84 43 00-0029 CLF 1/2" x 1" Joint, Latex-Based, Intumescent Firestop Sealant (STI SSS Series)	1,318.51	135.87
<i>For Up To 0.75 CLF, Add</i>	88.73	
<i>For >4 CLF, Deduct</i>	-111.53	
07 84 43 00-0030 CLF 3/4" x 3/4" Joint, Latex-Based, Intumescent Firestop Sealant (STI SSS Series)	1,445.24	139.69
<i>For Up To 0.65 CLF, Add</i>	97.92	
<i>For >3.5 CLF, Deduct</i>	-123.57	
07 84 43 00-0031 CLF 3/4" x 1" Joint, Latex-Based, Intumescent Firestop Sealant (STI SSS Series)	1,825.39	152.39
<i>For Up To 0.5 CLF, Add</i>	125.48	
<i>For >2.5 CLF, Deduct</i>	-159.68	
07 84 43 00-0032 CLF 1" x 1" Joint, Latex-Based, Intumescent Firestop Sealant (STI SSS Series)	2,332.25	168.89
<i>For Up To 0.4 CLF, Add</i>	162.22	
<i>For >2 CLF, Deduct</i>	-207.83	
07 84 43 00-0033 Passive Smoke And Fire Protection Sealant For Joints (STI ES Series) ^{(07 84}		
⁴³⁾ CLF 1/4" x 1/4" Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series)	401.85	114.29
<i>For Up To 6 CLF, Add</i>	21.57	
<i>For >30 CLF, Deduct</i>	-23.04	
07 84 43 00-0035 CLF 1/4" x 3/8" Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series)	431.33	114.29
<i>For Up To 4 CLF, Add</i>	23.78	
<i>For >20 CLF, Deduct</i>	-25.99	
07 84 43 00-0036 CLF 1/4" x 1/2" Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series)	473.52	118.10
<i>For Up To 3 CLF, Add</i>	26.62	
<i>For >15 CLF, Deduct</i>	-29.57	
07 84 43 00-0037 CLF 3/8" x 3/8" Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series)	488.26	118.10
<i>For Up To 2.5 CLF, Add</i>	27.73	
<i>For >13 CLF, Deduct</i>	-31.05	
07 84 43 00-0038 CLF 3/8" x 1/2" Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series)	532.50	118.10
<i>For Up To 2 CLF, Add</i>	31.05	
<i>For >10 CLF, Deduct</i>	-35.47	
07 84 43 00-0039 CLF 3/8" x 5/8" Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series)	576.73	118.10
<i>For Up To 1.5 CLF, Add</i>	34.37	
<i>For >8 CLF, Deduct</i>	-39.89	
07 84 43 00-0040 CLF 3/8" x 3/4" Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series)	633.66	123.18
<i>For Up To 1.3 CLF, Add</i>	38.32	
<i>For >7 CLF, Deduct</i>	-44.95	
07 84 43 00-0041 CLF 1/2" x 1/2" Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series)	604.17	123.18
<i>For Up To 1.4 CLF, Add</i>	36.11	
<i>For >7.5 CLF, Deduct</i>	-42.00	
07 84 43 00-0042 CLF 1/2" x 5/8" Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series)	675.85	126.99
<i>For Up To 1.15 CLF, Add</i>	41.16	
<i>For >6 CLF, Deduct</i>	-48.54	
07 84 43 00-0043 CLF 1/2" x 3/4" Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series)	734.82	126.99
<i>For Up To 1 CLF, Add</i>	45.59	
<i>For >5 CLF, Deduct</i>	-54.43	
07 84 43 00-0044 CLF 1/2" x 7/8" Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series)	806.49	130.79
<i>For Up To 0.8 CLF, Add</i>	50.65	
<i>For >4.5 CLF, Deduct</i>	-60.97	
07 84 43 00-0045 CLF 1/2" x 1" Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series)	878.16	135.87
<i>For Up To 0.75 CLF, Add</i>	55.70	
<i>For >4 CLF, Deduct</i>	-67.50	

07 Thermal And Moisture Protection**07 80 Fire and Smoke Protection****07 84 Firestopping**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 84 43 00-0046	CLF	3/4" x 3/4"	Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series).....	949.85	139.69
			<i>For Up To 0.65 CLF, Add</i>	60.76	
			<i>For >3.5 CLF, Deduct</i>	-74.03	
07 84 43 00-0047	CLF	3/4" x 1"	Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series).....	1,164.86	152.39
			<i>For Up To 0.5 CLF, Add</i>	75.94	
			<i>For >2.5 CLF, Deduct</i>	-93.63	
07 84 43 00-0048	CLF	1" x 1"	Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series).....	1,451.55	168.89
			<i>For Up To 0.4 CLF, Add</i>	96.17	
			<i>For >2 CLF, Deduct</i>	-119.76	
07 84 56			Fire Safing (07 84)		
07 84 56 13			Fibrous Fire Safing (07 84 56)		
07 84 56 13-0001			Thermal Barrier Wrap (07 84 56 13)		
			Note: Includes cutting wrap to fit pipe or conduit and sealing edges.		
07 84 56 13-0002	SF	1/2"	Thick Fire Barrier Plenum Wrap (3M Plenum Wrap 5A).....	12.38	
			<i>For Work In Restricted Working Space, Add</i>	1.82	
07 84 56 13-0003	SF	1-1/2"	Thick Fire Barrier Duct Wrap (3M Duct Wrap 15A).....	19.19	
			Note: Includes cutting wrap to fit pipe or conduit and sealing edges.		
			<i>For Work In Restricted Working Space, Add</i>	1.82	
07 84 56 13-0004	SF	2"	Thick Fire Barrier Duct Wrap (3M Duct Wrap 20A).....	20.83	
			Note: Includes cutting wrap to fit pipe or conduit and sealing edges.		
			<i>For Work In Restricted Working Space, Add</i>	1.82	
07 84 56 13-0005			FireMaster Blanket Wrap Fireproofing (07 84 56 13)		
07 84 56 13-0006	SF	1/2"	Thermal Ceramics FireMaster Blanket Wrap.....	20.93	12.35
			<i>For Work In Restricted Working Space, Add</i>	4.96	
			<i>For >500 To 5,000, Deduct</i>	-1.84	
			<i>For >5,000, Deduct</i>	-3.28	
07 84 56 13-0007	SF	1"	Thermal Ceramics FireMaster Blanket Wrap.....	24.57	12.35
			<i>For Work In Restricted Working Space, Add</i>	4.96	
			<i>For >500 To 5,000, Deduct</i>	-2.67	
			<i>For >5,000, Deduct</i>	-4.63	
07 84 56 13-0008	SF	1-1/2"	Thermal Ceramics FireMaster Blanket Wrap.....	28.56	12.35
			<i>For Work In Restricted Working Space, Add</i>	4.96	
			<i>For >500 To 5,000, Deduct</i>	-3.59	
			<i>For >5,000, Deduct</i>	-6.10	
07 84 56 13-0009	SF	2"	Thermal Ceramics FireMaster Blanket Wrap.....	32.55	12.35
			<i>For Work In Restricted Working Space, Add</i>	4.96	
			<i>For >500 To 5,000, Deduct</i>	-4.51	
			<i>For >5,000, Deduct</i>	-7.58	
07 90			Joint Protection (07)		
07 91			Prefomed Joint Seals (07 90)		
07 91 23			Backer Rods (07 91)		
07 91 23 00-0001			Backer Rods (07 91 23)		
07 91 23 00-0002	LF	1/4"	Polyethylene Or Polyurethane Backer Rod.....	1.96	0.58
07 91 23 00-0003	LF	3/8"	Polyethylene Or Polyurethane Backer Rod.....	2.11	0.58
07 91 23 00-0004	LF	1/2"	Polyethylene Or Polyurethane Backer Rod.....	2.28	0.58
07 91 23 00-0005	LF	5/8"	Polyethylene Or Polyurethane Backer Rod.....	2.50	0.58
07 91 23 00-0006	LF	3/4"	Polyethylene Or Polyurethane Backer Rod.....	2.60	0.70
07 91 23 00-0007	LF	7/8"	Polyethylene Or Polyurethane Backer Rod.....	2.81	0.70
07 91 23 00-0008	LF	1"	Polyethylene Or Polyurethane Backer Rod.....	3.25	0.70
07 91 23 00-0009	LF	1-1/4"	Polyethylene Or Polyurethane Backer Rod.....	3.70	0.82
07 91 23 00-0010	LF	1-1/2"	Polyethylene Or Polyurethane Backer Rod.....	4.24	0.93
07 91 23 00-0011	LF	2"	Polyethylene Or Polyurethane Backer Rod.....	5.33	1.05
07 91 23 00-0012	LF	3"	Polyethylene Or Polyurethane Backer Rod.....	9.40	1.29
07 91 26			Joint Fillers (07 91)		
07 91 26 00-0001			Butyl Rubber Fillers (07 91 26)		
07 91 26 00-0002	LF	1/4" x 1/4"	Butyl Rubber Filler.....	2.72	0.70
			<i>For Custom Match Coloring, Add</i>	0.05	
07 91 26 00-0003	LF	1/2" x 1/2"	Butyl Rubber Filler.....	8.24	2.00
			<i>For Custom Match Coloring, Add</i>	0.21	
07 91 26 00-0004	LF	1/2" x 3/4"	Butyl Rubber Filler.....	10.02	2.11
			<i>For Custom Match Coloring, Add</i>	0.32	
07 91 26 00-0005	LF	3/4" x 3/4"	Butyl Rubber Filler.....	10.98	2.23
07 91 26 00-0006	LF	1" x 1"	Butyl Rubber Filler.....	14.87	4.11
07 91 26 00-0007			Closed Cell Neoprene (07 91 26)		
07 91 26 00-0008	CLF	1/8" x 3"	Neoprene Gasket Closed Cell, Adhesive.....	466.27	135.30



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 91 26 00-0009 CLF 1/8" x 6" Neoprene Gasket Closed Cell, Adhesive	743.42	195.44
07 91 26 00-0010 CLF 1/4" x 3" Neoprene Gasket Closed Cell, Adhesive	596.46	167.54
07 91 26 00-0011 CLF 1/4" x 6" Neoprene Gasket Closed Cell, Adhesive	683.41	175.86
07 91 26 00-0012 CLF 1/2" x 6" Neoprene Gasket Closed Cell, Adhesive	1,043.19	270.59
07 91 26 00-0013 CLF 1/2" x 9" Neoprene Gasket Closed Cell, Adhesive	1,190.18	293.11
07 91 26 00-0014 CLF 1/2" x 12" Neoprene Gasket Closed Cell, Adhesive	1,065.27	213.15
07 91 26 00-0015 Closed Cell Polyvinyl Chloride (07 91 26)		
07 91 26 00-0016 CLF 1/8" x 3" Polyethylene Joint Backing, Closed Cell	475.69	167.54
07 91 26 00-0017 CLF 1/8" x 6" Polyethylene Joint Backing, Closed Cell	799.95	270.59
07 91 26 00-0018 CLF 1/4" x 3" Polyethylene Joint Backing, Closed Cell	620.53	230.96
07 91 26 00-0019 CLF 1/4" x 6" Polyethylene Joint Backing, Closed Cell	743.07	243.86
07 91 26 00-0020 CLF 1/2" x 6" Polyethylene Joint Backing, Closed Cell	1,131.65	374.00
07 91 26 00-0021 CLF 1/2" x 9" Polyethylene Joint Backing, Closed Cell	1,321.03	405.89
07 91 26 00-0022 CLF 1/2" x 12" Polyethylene Joint Backing, Closed Cell	1,743.48	486.55
07 91 26 00-0023 Silicon RTV Foam Penetration Seal (07 91 26)		
07 91 26 00-0024 CLF 1/4" x 1/2" Silicon RTV Foam Seal	158.20	26.85
07 91 26 00-0025 CLF 1/2" x 1/2" Silicon RTV Foam Seal	316.40	53.58
07 91 26 00-0026 CLF 1/2" x 3/4" Silicon RTV Foam Seal	471.58	79.61
07 91 26 00-0027 CLF 3/4" x 3/4" Silicon RTV Foam Seal	667.26	107.28
07 91 26 00-0028 CLF 1/8" x 1" Silicon RTV Foam Seal	158.20	26.85
07 91 26 00-0029 CLF 1/8" x 3" Silicon RTV Foam Seal	471.10	79.38
07 91 26 00-0030 CLF 1/4" x 3" Silicon RTV Foam Seal	810.24	119.23
07 91 26 00-0031 CLF 1/4" x 6" Silicon RTV Foam Seal	1,618.37	237.65
07 91 26 00-0032 CLF 1/2" x 6" Silicon RTV Foam Seal	3,075.24	428.99
07 91 26 00-0033 CLF 1/2" x 9" Silicon RTV Foam Seal	4,699.10	670.15
07 91 26 00-0034 CLF 1/2" x 12" Silicon RTV Foam Seal	6,879.20	1,072.29
07 91 26 00-0035 Seals O-Ring Type Cord "J-Seal" (07 91 26)		
07 91 26 00-0036 LF 1/4" Seals O-Ring Cord, J-Seal	5.00	1.53
07 91 26 00-0037 LF 1/2" Seals O-Ring Cord, J-Seal	5.30	1.53
07 91 26 00-0038 LF 3/4" Seals O-Ring Cord, J-Seal	5.57	1.64
07 91 26 00-0039 LF 1" Seals O-Ring Cord, J-Seal	5.87	1.76
07 91 26 00-0040 LF 1-1/4" Seals O-Ring Cord, J-Seal	6.28	1.88
07 91 26 00-0041 LF 1-1/2" Seals O-Ring Cord, J-Seal	6.57	1.88
07 91 26 00-0042 LF 1-3/4" Seals O-Ring Cord, J-Seal	6.95	2.00
07 91 26 00-0043 LF 2" Seals O-Ring Cord, J-Seal	7.17	2.00
07 91 33 Expansion Joint Seal Systems (07 91)		
07 91 33 00-0001 Expansion Joint Seal Systems (Wabo®) (07 91 33)		
07 91 33 00-0002 Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal Systems (Wabo® HSeal) (07 91 33 00-0001)		
Note: Includes a pre-compressed seal, epoxy adhesive and traffic grade elastomeric top coating.		
07 91 33 00-0003 LF 1/2" Minimum, 1-1/2" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® HSeal 25EH)	95.43	8.06
07 91 33 00-0004 LF 3/4" Minimum, 2-1/4" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® HSeal 40EH)	127.82	8.44
07 91 33 00-0005 LF 1" Minimum, 3" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® HSeal 50EH)	161.97	8.83
07 91 33 00-0006 LF 1-1/4" Minimum, 3-3/4" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® HSeal 65EH)	199.98	9.21
07 91 33 00-0007 LF 1-1/2" Minimum, 4-1/2" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® HSeal 75EH)	259.58	9.59
07 91 33 00-0008 LF 1-3/4" Minimum, 5-1/4" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® HSeal 90EH)	298.23	9.97
07 91 33 00-0009 LF 2" Minimum, 6" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® HSeal 100EH)	346.16	10.36
07 91 33 00-0010 Neoprene, Preformed Elastomeric Horizontal Expansion Joint Seal Systems (Wabo® CompressionSeal) (07 91 33 00-0001)		
Note: Includes preformed neoprene joint seal and lubricant adhesive.		
07 91 33 00-0011 LF 0.625" Minimum, 1.381" Maximum Joint Opening, Neoprene, Preformed Elastomeric Horizontal Expansion Joint Seal System (Wabo® CompressionSeal WA-162)	48.53	8.06
07 91 33 00-0012 LF 0.688" Minimum, 1.488" Maximum Joint Opening, Neoprene, Preformed Elastomeric Horizontal Expansion Joint Seal System (Wabo® CompressionSeal WA-175)	53.02	8.17
07 91 33 00-0013 LF 0.875" Minimum, 1.700" Maximum Joint Opening, Neoprene, Preformed Elastomeric Horizontal Expansion Joint Seal System (Wabo® CompressionSeal WA-200)	64.22	8.29
07 91 33 00-0014 LF 0.953" Minimum, 1.913" Maximum Joint Opening, Neoprene, Preformed Elastomeric Horizontal Expansion Joint Seal System (Wabo® CompressionSeal WA-225)	68.17	8.44
07 91 33 00-0015 LF 1.000" Minimum, 2.125" Maximum Joint Opening, Neoprene, Preformed Elastomeric Horizontal Expansion Joint Seal System (Wabo® CompressionSeal WA-250)	72.88	8.55
07 91 33 00-0016 LF 1.125" Minimum, 2.550" Maximum Joint Opening, Neoprene, Preformed Elastomeric Horizontal Expansion Joint Seal System (Wabo® CompressionSeal WA-300)	89.46	8.67

07 Thermal And Moisture Protection**07 90 Joint Protection****07 91 Prefomed Joint Seals**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 91 33 00-0017 LF 1.375" Minimum, 2.975" Maximum Joint Opening, Neoprene, Prefomed Elastomeric Horizontal Expansion Joint Seal System (Wabo® CompressionSeal WA-350).....	110.49	8.83
07 91 33 00-0018 LF 1.625" Minimum, 3.400" Maximum Joint Opening, Neoprene, Prefomed Elastomeric Horizontal Expansion Joint Seal System (Wabo® CompressionSeal WA-400).....	130.78	9.21
07 91 33 00-0019 LF 1.687" Minimum, 4.250" Maximum Joint Opening, Neoprene, Prefomed Elastomeric Horizontal Expansion Joint Seal System (Wabo® CompressionSeal WA-500).....	148.13	9.59
07 91 33 00-0020 Santoprene®, Prefomed Elastomeric Vertical Expansion Joint Seal Systems (Wabo® CompressionSeal) (07 91 33 00-0001) Note: Includes prefomed Santoprene® joint seal and lubricant adhesive.		
07 91 33 00-0021 LF 0.500" Minimum, 1.500" Maximum Joint Opening, Santoprene®, Prefomed Elastomeric Vertical Expansion Joint Seal System (Wabo® CompressionSeal WE-100).....	40.54	8.06
07 91 33 00-0022 LF 0.688" Minimum, 1.938" Maximum Joint Opening, Santoprene®, Prefomed Elastomeric Vertical Expansion Joint Seal System (Wabo® CompressionSeal WE-225).....	52.83	8.44
07 91 33 00-0023 LF 1.063" Minimum, 2.125" Maximum Joint Opening, Santoprene®, Prefomed Elastomeric Vertical Expansion Joint Seal System (Wabo® CompressionSeal WE-250).....	64.92	8.83
07 91 33 00-0024 LF 1.250" Minimum, 2.563" Maximum Joint Opening, Santoprene®, Prefomed Elastomeric Vertical Expansion Joint Seal System (Wabo® CompressionSeal WE-300).....	68.58	9.02
07 91 33 00-0025 LF 1.250" Minimum, 3.375" Maximum Joint Opening, Santoprene®, Prefomed Elastomeric Vertical Expansion Joint Seal System (Wabo® CompressionSeal WE-400).....	76.13	9.21
07 91 33 00-0026 LF 1.438" Minimum, 4.250" Maximum Joint Opening, Santoprene®, Prefomed Elastomeric Vertical Expansion Joint Seal System (Wabo® CompressionSeal WE-500).....	109.46	9.59
07 91 33 00-0027 LF 1.813" Minimum, 5.125" Maximum Joint Opening, Santoprene®, Prefomed Elastomeric Vertical Expansion Joint Seal System (Wabo® CompressionSeal WE-600).....	150.70	9.97
07 91 33 00-0028 Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal Systems (Wabo® Seismic WeatherSeal) (07 91 33 00-0001) Note: Includes a pre-compressed foam seal and silicone sealant.		
07 91 33 00-0029 LF 1/2" Minimum, 1-1/2" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® Seismic WeatherSeal SWS-100).....	35.34	3.20
07 91 33 00-0030 LF 3/4" Minimum, 2-1/4" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® Seismic WeatherSeal SWS-150).....	59.36	3.33
07 91 33 00-0031 LF 1" Minimum, 3" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® Seismic WeatherSeal SWS-200).....	89.43	3.45
07 91 33 00-0032 LF 1-1/4" Minimum, 3-3/4" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® Seismic WeatherSeal SWS-250).....	112.79	3.58
07 91 33 00-0033 LF 1-1/2" Minimum, 4-1/2" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® Seismic WeatherSeal SWS-300).....	148.48	3.71
07 91 33 00-0034 LF 1-3/4" Minimum, 5-1/4" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® Seismic WeatherSeal SWS-350).....	196.47	3.84
07 91 33 00-0035 LF 2" Minimum, 6" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® Seismic WeatherSeal SWS-400).....	241.00	3.97
07 91 33 00-0036 LF 2-1/2" Minimum, 7-1/2" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® Seismic WeatherSeal SWS-500).....	325.09	4.09
07 91 33 00-0037 LF 3" Minimum, 9" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® Seismic WeatherSeal SWS-600).....	379.56	4.22
07 91 33 00-0038 Silicone Faced Foam, Prefomed Elastomeric Expansion Joint Seal Systems (Wabo® WeatherSeal II) (07 91 33 00-0001) Note: Includes a pre-compressed foam seal and silicone sealant.		
07 91 33 00-0039 LF 0.75" Minimum, 1.25" Maximum Joint Opening, Silicone Faced Foam, Prefomed Elastomeric Expansion Joint Seal System (Wabo® WeatherSeal II WS-100).....	34.47	3.20
07 91 33 00-0040 LF 1.13" Minimum, 1.88" Maximum Joint Opening, Silicone Faced Foam, Prefomed Elastomeric Expansion Joint Seal System (Wabo® WeatherSeal II WS-150).....	45.53	3.33
07 91 33 00-0041 LF 1.50" Minimum, 2.50" Maximum Joint Opening, Silicone Faced Foam, Prefomed Elastomeric Expansion Joint Seal System (Wabo® WeatherSeal II WS-200).....	61.13	3.45
07 91 33 00-0042 LF 1.88" Minimum, 3.13" Maximum Joint Opening, Silicone Faced Foam, Prefomed Elastomeric Expansion Joint Seal System (Wabo® WeatherSeal II WS-250).....	82.98	3.58
07 91 33 00-0043 LF 2.25" Minimum, 3.75" Maximum Joint Opening, Silicone Faced Foam, Prefomed Elastomeric Expansion Joint Seal System (Wabo® WeatherSeal II WS-300).....	94.69	3.71
07 91 33 00-0044 LF 2.63" Minimum, 4.38" Maximum Joint Opening, Silicone Faced Foam, Prefomed Elastomeric Expansion Joint Seal System (Wabo® WeatherSeal II WS-350).....	131.45	3.84
07 91 33 00-0045 LF 3.00" Minimum, 5.00" Maximum Joint Opening, Silicone Faced Foam, Prefomed Elastomeric Expansion Joint Seal System (Wabo® WeatherSeal II WS-400).....	176.63	3.97
07 91 33 00-0046 LF 3.75" Minimum, 6.25" Maximum Joint Opening, Silicone Faced Foam, Prefomed Elastomeric Expansion Joint Seal System (Wabo® WeatherSeal II WS-500).....	190.72	4.09

07 92 Joint Sealants (07 90)**07 92 13 Elastomeric Joint Sealants (07 92)****07 92 13 00-0001 Silicone Sealant And Caulking (07 92 13)**

07 92 13 00-0002 CLF 1/4" x 1/4" Joint, Silicone Sealant And Caulking.....	398.68	114.29
For Custom Match Coloring, Add	13.39	
For Up To 6 CLF, Add	21.33	
For >30 CLF, Deduct	-22.72	
For 1 Part Mildew Resistant, Add	19.53	
For High-Modulus Non-Acid Curing, Add	11.16	



Thermal And Moisture Protection			07
Joint Protection			07 90
Joint Sealants			07 92

07

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 92 13 00-0003 CLF 1/4" x 3/8" Joint, Silicone Sealant And Caulking	426.59	114.29
<i>For Custom Match Coloring, Add</i>	20.09	
<i>For Up To 4 CLF, Add</i>	23.42	
<i>For >20 CLF, Deduct</i>	-25.52	
<i>For 1 Part Mildew Resistant, Add</i>	29.30	
<i>For High-Modulus Non-Acid Curing, Add</i>	16.74	
07 92 13 00-0004 CLF 1/4" x 1/2" Joint, Silicone Sealant And Caulking	467.19	118.10
<i>For Custom Match Coloring, Add</i>	26.79	
<i>For Up To 3 CLF, Add</i>	26.15	
<i>For >15 CLF, Deduct</i>	-28.94	
<i>For 1 Part Mildew Resistant, Add</i>	39.07	
<i>For High-Modulus Non-Acid Curing, Add</i>	22.32	
07 92 13 00-0005 CLF 3/8" x 3/8" Joint, Silicone Sealant And Caulking	481.14	118.10
<i>For Custom Match Coloring, Add</i>	30.14	
<i>For Up To 2.5 CLF, Add</i>	27.20	
<i>For >13 CLF, Deduct</i>	-30.34	
<i>For 1 Part Mildew Resistant, Add</i>	43.95	
<i>For High-Modulus Non-Acid Curing, Add</i>	25.11	
07 92 13 00-0006 CLF 3/8" x 1/2" Joint, Silicone Sealant And Caulking	523.00	118.10
<i>For Custom Match Coloring, Add</i>	40.18	
<i>For Up To 2 CLF, Add</i>	30.34	
<i>For >10 CLF, Deduct</i>	-34.52	
<i>For 1 Part Mildew Resistant, Add</i>	58.60	
<i>For High-Modulus Non-Acid Curing, Add</i>	33.49	
07 92 13 00-0007 CLF 3/8" x 5/8" Joint, Silicone Sealant And Caulking	564.86	118.10
<i>For Custom Match Coloring, Add</i>	50.23	
<i>For Up To 1.5 CLF, Add</i>	33.48	
<i>For >8 CLF, Deduct</i>	-38.71	
<i>For 1 Part Mildew Resistant, Add</i>	73.25	
<i>For High-Modulus Non-Acid Curing, Add</i>	41.86	
07 92 13 00-0008 CLF 3/8" x 3/4" Joint, Silicone Sealant And Caulking	619.42	123.18
<i>For Custom Match Coloring, Add</i>	60.28	
<i>For Up To 1.3 CLF, Add</i>	37.25	
<i>For >7 CLF, Deduct</i>	-43.53	
<i>For 1 Part Mildew Resistant, Add</i>	87.90	
<i>For High-Modulus Non-Acid Curing, Add</i>	50.23	
07 92 13 00-0009 CLF 1/2" x 1/2" Joint, Silicone Sealant And Caulking	591.51	123.18
<i>For Custom Match Coloring, Add</i>	53.58	
<i>For Up To 1.4 CLF, Add</i>	35.16	
<i>For >7.5 CLF, Deduct</i>	-40.74	
<i>For 1 Part Mildew Resistant, Add</i>	78.13	
<i>For High-Modulus Non-Acid Curing, Add</i>	44.65	
07 92 13 00-0010 CLF 1/2" x 5/8" Joint, Silicone Sealant And Caulking	660.02	126.99
<i>For Custom Match Coloring, Add</i>	66.97	
<i>For Up To 1.15 CLF, Add</i>	39.98	
<i>For >6 CLF, Deduct</i>	-46.95	
<i>For 1 Part Mildew Resistant, Add</i>	97.67	
<i>For High-Modulus Non-Acid Curing, Add</i>	55.81	
07 92 13 00-0011 CLF 1/2" x 3/4" Joint, Silicone Sealant And Caulking	715.83	126.99
<i>For Custom Match Coloring, Add</i>	80.37	
<i>For Up To 1 CLF, Add</i>	44.16	
<i>For >5 CLF, Deduct</i>	-52.53	
<i>For 1 Part Mildew Resistant, Add</i>	117.20	
<i>For High-Modulus Non-Acid Curing, Add</i>	66.97	
07 92 13 00-0012 CLF 1/2" x 7/8" Joint, Silicone Sealant And Caulking	784.33	130.79
<i>For Custom Match Coloring, Add</i>	93.76	
<i>For Up To 0.8 CLF, Add</i>	48.98	
<i>For >4.5 CLF, Deduct</i>	-58.75	
<i>For 1 Part Mildew Resistant, Add</i>	136.73	
<i>For High-Modulus Non-Acid Curing, Add</i>	78.13	
07 92 13 00-0013 CLF 1/2" x 1" Joint, Silicone Sealant And Caulking	852.84	135.87
<i>For Custom Match Coloring, Add</i>	107.16	
<i>For Up To 0.75 CLF, Add</i>	53.80	
<i>For >4 CLF, Deduct</i>	-64.97	
<i>For 1 Part Mildew Resistant, Add</i>	156.27	
<i>For High-Modulus Non-Acid Curing, Add</i>	89.30	
07 92 13 00-0014 CLF 3/4" x 3/4" Joint, Silicone Sealant And Caulking	921.36	139.69
<i>For Custom Match Coloring, Add</i>	120.55	
<i>For Up To 0.65 CLF, Add</i>	58.63	
<i>For >3.5 CLF, Deduct</i>	-71.18	
<i>For 1 Part Mildew Resistant, Add</i>	175.80	
<i>For High-Modulus Non-Acid Curing, Add</i>	100.46	
07 92 13 00-0015 CLF 3/4" x 1" Joint, Silicone Sealant And Caulking	1,126.88	152.39
<i>For Custom Match Coloring, Add</i>	160.73	
<i>For Up To 0.5 CLF, Add</i>	73.09	
<i>For >2.5 CLF, Deduct</i>	-89.83	
<i>For 1 Part Mildew Resistant, Add</i>	234.40	
<i>For High-Modulus Non-Acid Curing, Add</i>	133.94	
07 92 13 00-0016 CLF 1" x 1" Joint, Silicone Sealant And Caulking	1,400.91	168.89
<i>For Custom Match Coloring, Add</i>	214.31	
<i>For Up To 0.4 CLF, Add</i>	92.37	
<i>For >2 CLF, Deduct</i>	-114.69	
<i>For 1 Part Mildew Resistant, Add</i>	312.54	
<i>For High-Modulus Non-Acid Curing, Add</i>	178.59	

07 Thermal And Moisture Protection**07 90 Joint Protection****07 92 Joint Sealants**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 92 13 00-0017 Acrylic/Latex Sealant And Caulking (07 92 13)				
07 92 13 00-0018	CLF	1/4" x 1/4" Joint, Acrylic/Latex Sealant And Caulking	362.45	114.29
		<i>For Up To 6 CLF, Add</i>	18.61	
		<i>For >30 CLF, Deduct</i>	-19.10	
07 92 13 00-0019	CLF	1/4" x 3/8" Joint, Acrylic/Latex Sealant And Caulking	372.24	114.29
		<i>For Up To 4 CLF, Add</i>	19.35	
		<i>For >20 CLF, Deduct</i>	-20.08	
07 92 13 00-0020	CLF	1/4" x 1/2" Joint, Acrylic/Latex Sealant And Caulking	394.73	118.10
		<i>For Up To 3 CLF, Add</i>	20.72	
		<i>For >15 CLF, Deduct</i>	-21.69	
07 92 13 00-0021	CLF	3/8" x 3/8" Joint, Acrylic/Latex Sealant And Caulking	399.62	118.10
		<i>For Up To 2.5 CLF, Add</i>	21.08	
		<i>For >13 CLF, Deduct</i>	-22.18	
07 92 13 00-0022	CLF	3/8" x 1/2" Joint, Acrylic/Latex Sealant And Caulking	414.31	118.10
		<i>For Up To 2 CLF, Add</i>	22.18	
		<i>For >10 CLF, Deduct</i>	-23.65	
07 92 13 00-0023	CLF	3/8" x 5/8" Joint, Acrylic/Latex Sealant And Caulking	428.99	118.10
		<i>For Up To 1.5 CLF, Add</i>	23.29	
		<i>For >8 CLF, Deduct</i>	-25.12	
07 92 13 00-0024	CLF	3/8" x 3/4" Joint, Acrylic/Latex Sealant And Caulking	456.38	123.18
		<i>For Up To 1.3 CLF, Add</i>	25.02	
		<i>For >7 CLF, Deduct</i>	-27.22	
07 92 13 00-0025	CLF	1/2" x 1/2" Joint, Acrylic/Latex Sealant And Caulking	446.59	123.18
		<i>For Up To 1.4 CLF, Add</i>	24.29	
		<i>For >7.5 CLF, Deduct</i>	-26.25	
07 92 13 00-0026	CLF	1/2" x 5/8" Joint, Acrylic/Latex Sealant And Caulking	478.87	126.99
		<i>For Up To 1.15 CLF, Add</i>	26.39	
		<i>For >6 CLF, Deduct</i>	-28.84	
07 92 13 00-0027	CLF	1/2" x 3/4" Joint, Acrylic/Latex Sealant And Caulking	498.45	126.99
		<i>For Up To 1 CLF, Add</i>	27.86	
		<i>For >5 CLF, Deduct</i>	-30.80	
07 92 13 00-0028	CLF	1/2" x 7/8" Joint, Acrylic/Latex Sealant And Caulking	530.72	130.79
		<i>For Up To 0.8 CLF, Add</i>	29.96	
		<i>For >4.5 CLF, Deduct</i>	-33.39	
07 92 13 00-0029	CLF	1/2" x 1" Joint, Acrylic/Latex Sealant And Caulking	563.00	135.87
		<i>For Up To 0.75 CLF, Add</i>	32.07	
		<i>For >4 CLF, Deduct</i>	-35.98	
07 92 13 00-0030	CLF	3/4" x 3/4" Joint, Acrylic/Latex Sealant And Caulking	595.29	139.69
		<i>For Up To 0.65 CLF, Add</i>	34.17	
		<i>For >3.5 CLF, Deduct</i>	-38.58	
07 92 13 00-0031	CLF	3/4" x 1" Joint, Acrylic/Latex Sealant And Caulking	692.12	152.39
		<i>For Up To 0.5 CLF, Add</i>	40.48	
		<i>For >2.5 CLF, Deduct</i>	-46.35	
07 92 13 00-0032	CLF	1" x 1" Joint, Acrylic/Latex Sealant And Caulking	821.23	168.89
		<i>For Up To 0.4 CLF, Add</i>	48.89	
		<i>For >2 CLF, Deduct</i>	-56.73	
07 92 13 00-0033 Polyurethane Sealant And Caulking (07 92 13)				
		Note: 1 or 2 part, non-sag.		
07 92 13 00-0034	CLF	1/4" x 1/4" Joint, Polyurethane Sealant And Caulking	385.67	114.29
		<i>For Up To 6 CLF, Add</i>	20.35	
		<i>For >30 CLF, Deduct</i>	-21.42	
07 92 13 00-0035	CLF	1/4" x 3/8" Joint, Polyurethane Sealant And Caulking	407.08	114.29
		<i>For Up To 4 CLF, Add</i>	21.96	
		<i>For >20 CLF, Deduct</i>	-23.56	
07 92 13 00-0036	CLF	1/4" x 1/2" Joint, Polyurethane Sealant And Caulking	441.18	118.10
		<i>For Up To 3 CLF, Add</i>	24.20	
		<i>For >15 CLF, Deduct</i>	-26.34	
07 92 13 00-0037	CLF	3/8" x 3/8" Joint, Polyurethane Sealant And Caulking	451.88	118.10
		<i>For Up To 2.5 CLF, Add</i>	25.00	
		<i>For >13 CLF, Deduct</i>	-27.41	
07 92 13 00-0038	CLF	3/8" x 1/2" Joint, Polyurethane Sealant And Caulking	483.98	118.10
		<i>For Up To 2 CLF, Add</i>	27.41	
		<i>For >10 CLF, Deduct</i>	-30.62	
07 92 13 00-0039	CLF	3/8" x 5/8" Joint, Polyurethane Sealant And Caulking	516.09	118.10
		<i>For Up To 1.5 CLF, Add</i>	29.82	
		<i>For >8 CLF, Deduct</i>	-33.83	
07 92 13 00-0040	CLF	3/8" x 3/4" Joint, Polyurethane Sealant And Caulking	560.89	123.18
		<i>For Up To 1.3 CLF, Add</i>	32.86	
		<i>For >7 CLF, Deduct</i>	-37.68	
07 92 13 00-0041	CLF	1/2" x 1/2" Joint, Polyurethane Sealant And Caulking	539.49	123.18
		<i>For Up To 1.4 CLF, Add</i>	31.26	
		<i>For >7.5 CLF, Deduct</i>	-35.54	
07 92 13 00-0042	CLF	1/2" x 5/8" Joint, Polyurethane Sealant And Caulking	594.99	126.99
		<i>For Up To 1.15 CLF, Add</i>	35.10	
		<i>For >6 CLF, Deduct</i>	-40.45	
07 92 13 00-0043	CLF	1/2" x 3/4" Joint, Polyurethane Sealant And Caulking	637.80	126.99
		<i>For Up To 1 CLF, Add</i>	38.31	
		<i>For >5 CLF, Deduct</i>	-44.73	
07 92 13 00-0044	CLF	1/2" x 7/8" Joint, Polyurethane Sealant And Caulking	693.29	130.79
		<i>For Up To 0.8 CLF, Add</i>	42.16	
		<i>For >4.5 CLF, Deduct</i>	-49.65	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 92 13 00-0045 CLF 1/2" x 1" Joint, Polyurethane Sealant And Caulking <i>For Up To 0.75 CLF, Add</i> <i>For >4 CLF, Deduct</i>	748.80 46.00 -54.56	135.87
07 92 13 00-0046 CLF 3/4" x 3/4" Joint, Polyurethane Sealant And Caulking <i>For Up To 0.65 CLF, Add</i> <i>For >3.5 CLF, Deduct</i>	804.31 49.85 -59.48	139.69
07 92 13 00-0047 CLF 3/4" x 1" Joint, Polyurethane Sealant And Caulking <i>For Up To 0.5 CLF, Add</i> <i>For >2.5 CLF, Deduct</i>	970.81 61.38 -74.22	152.39
07 92 13 00-0048 Flexible Polysulfide Sealant And Caulking, Clear <small>(07 92 13)</small>		
<i>Note: 1 or 2 part, non-sag.</i>		
07 92 13 00-0049 CLF 1/4" x 1/4" Joint, Polysulfide Sealant And Caulking <i>For Up To 6 CLF, Add</i> <i>For >30 CLF, Deduct</i>	389.74 20.66 -21.83	114.29
07 92 13 00-0050 CLF 1/4" x 3/8" Joint, Polysulfide Sealant And Caulking <i>For Up To 4 CLF, Add</i> <i>For >20 CLF, Deduct</i>	413.19 22.42 -24.18	114.29
07 92 13 00-0051 CLF 1/4" x 1/2" Joint, Polysulfide Sealant And Caulking <i>For Up To 3 CLF, Add</i> <i>For >15 CLF, Deduct</i>	449.32 24.81 -27.15	118.10
07 92 13 00-0052 CLF 3/8" x 3/8" Joint, Polysulfide Sealant And Caulking <i>For Up To 2.5 CLF, Add</i> <i>For >13 CLF, Deduct</i>	461.04 25.69 -28.33	118.10
07 92 13 00-0053 CLF 3/8" x 1/2" Joint, Polysulfide Sealant And Caulking <i>For Up To 2 CLF, Add</i> <i>For >10 CLF, Deduct</i>	496.21 28.33 -31.84	118.10
07 92 13 00-0054 CLF 3/8" x 5/8" Joint, Polysulfide Sealant And Caulking <i>For Up To 1.5 CLF, Add</i> <i>For >8 CLF, Deduct</i>	531.36 30.96 -35.36	118.10
07 92 13 00-0055 CLF 3/8" x 3/4" Joint, Polysulfide Sealant And Caulking <i>For Up To 1.3 CLF, Add</i> <i>For >7 CLF, Deduct</i>	579.21 34.23 -39.51	123.18
07 92 13 00-0056 CLF 1/2" x 1/2" Joint, Polysulfide Sealant And Caulking <i>For Up To 1.4 CLF, Add</i> <i>For >7.5 CLF, Deduct</i>	555.78 32.48 -37.16	123.18
07 92 13 00-0057 CLF 1/2" x 5/8" Joint, Polysulfide Sealant And Caulking <i>For Up To 1.15 CLF, Add</i> <i>For >6 CLF, Deduct</i>	615.36 36.63 -42.49	126.99
07 92 13 00-0058 CLF 1/2" x 3/4" Joint, Polysulfide Sealant And Caulking <i>For Up To 1 CLF, Add</i> <i>For >5 CLF, Deduct</i>	662.23 40.14 -47.17	126.99
07 92 13 00-0059 CLF 1/2" x 7/8" Joint, Polysulfide Sealant And Caulking <i>For Up To 0.8 CLF, Add</i> <i>For >4.5 CLF, Deduct</i>	721.81 44.29 -52.50	130.79
07 92 13 00-0060 CLF 1/2" x 1" Joint, Polysulfide Sealant And Caulking <i>For Up To 0.75 CLF, Add</i> <i>For >4 CLF, Deduct</i>	781.37 48.44 -57.82	135.87
07 92 13 00-0061 CLF 3/4" x 3/4" Joint, Polysulfide Sealant And Caulking <i>For Up To 0.65 CLF, Add</i> <i>For >3.5 CLF, Deduct</i>	840.97 52.60 -63.14	139.69
07 92 13 00-0062 CLF 3/4" x 1" Joint, Polysulfide Sealant And Caulking <i>For Up To 0.5 CLF, Add</i> <i>For >2.5 CLF, Deduct</i>	1,019.68 65.05 -79.11	152.39
07 92 13 00-0063 Flexible Polyurethane Security Sealant And Caulking <small>(07 92 13)</small>		
<i>Note: 1 or 2 part, non-sag.</i>		
07 92 13 00-0064 CLF 1/4" x 1/4" Joint, Flexible Polyurethane Security Sealant And Caulking <i>For Up To 6 CLF, Add</i> <i>For >30 CLF, Deduct</i>	399.68 21.40 -22.82	114.29
07 92 13 00-0065 CLF 1/4" x 3/8" Joint, Flexible Polyurethane Security Sealant And Caulking <i>For Up To 4 CLF, Add</i> <i>For >20 CLF, Deduct</i>	428.09 23.54 -25.67	114.29
07 92 13 00-0066 CLF 1/4" x 1/2" Joint, Flexible Polyurethane Security Sealant And Caulking <i>For Up To 3 CLF, Add</i> <i>For >15 CLF, Deduct</i>	469.19 26.30 -29.14	118.10
07 92 13 00-0067 CLF 3/8" x 3/8" Joint, Flexible Polyurethane Security Sealant And Caulking <i>For Up To 2.5 CLF, Add</i> <i>For >13 CLF, Deduct</i>	483.39 27.37 -30.56	118.10
07 92 13 00-0068 CLF 3/8" x 1/2" Joint, Flexible Polyurethane Security Sealant And Caulking <i>For Up To 2 CLF, Add</i> <i>For >10 CLF, Deduct</i>	526.00 30.56 -34.82	118.10
07 92 13 00-0069 CLF 3/8" x 5/8" Joint, Flexible Polyurethane Security Sealant And Caulking <i>For Up To 1.5 CLF, Add</i> <i>For >8 CLF, Deduct</i>	568.61 33.76 -39.08	118.10
07 92 13 00-0070 CLF 3/8" x 3/4" Joint, Flexible Polyurethane Security Sealant And Caulking <i>For Up To 1.3 CLF, Add</i> <i>For >7 CLF, Deduct</i>	623.92 37.59 -43.98	123.18
07 92 13 00-0071 CLF 1/2" x 1/2" Joint, Flexible Polyurethane Security Sealant And Caulking <i>For Up To 1.4 CLF, Add</i> <i>For >7.5 CLF, Deduct</i>	595.51 35.46 -41.14	123.18

07 Thermal And Moisture Protection**07 90 Joint Protection****07 92 Joint Sealants**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 92 13 00-0072 CLF 1/2" x 5/8" Joint, Flexible Polyurethane Security Sealant And Caulking	665.02	126.99
For Up To 1.15 CLF, Add	40.35	
For >6 CLF, Deduct	-47.45	
07 92 13 00-0073 CLF 1/2" x 3/4" Joint, Flexible Polyurethane Security Sealant And Caulking	721.83	126.99
For Up To 1 CLF, Add	44.61	
For >5 CLF, Deduct	-53.13	
07 92 13 00-0074 CLF 1/2" x 7/8" Joint, Flexible Polyurethane Security Sealant And Caulking	791.33	130.79
For Up To 0.8 CLF, Add	49.51	
For >4.5 CLF, Deduct	-59.45	
07 92 13 00-0075 CLF 1/2" x 1" Joint, Flexible Polyurethane Security Sealant And Caulking	860.84	135.87
For Up To 0.75 CLF, Add	54.40	
For >4 CLF, Deduct	-65.77	
07 92 13 00-0076 CLF 3/4" x 3/4" Joint, Flexible Polyurethane Security Sealant And Caulking	930.36	139.69
For Up To 0.65 CLF, Add	59.30	
For >3.5 CLF, Deduct	-72.08	
07 92 13 00-0077 CLF 3/4" x 1" Joint, Flexible Polyurethane Security Sealant And Caulking	1,138.89	152.39
For Up To 0.5 CLF, Add	73.99	
For >2.5 CLF, Deduct	-91.03	

07 92 19 Acoustical Joint Sealants (07 92)**07 92 19 00-0001 Acoustical Sealant (07 92 19)**

07 92 19 00-0002 CLF 1/4" x 1/4" Joint, Acoustical Sealant.....	393.61	114.29
For Custom Match Coloring, Add	12.18	
For Up To 6 CLF, Add	20.95	
For >30 CLF, Deduct	-22.22	
For 1 Part Mildew Resistant, Add	17.76	
For High-Modulus Non-Acid Curing, Add	10.15	
07 92 19 00-0003 CLF 1/4" x 3/8" Joint, Acoustical Sealant.....	412.88	114.29
For Custom Match Coloring, Add	16.80	
For Up To 4 CLF, Add	22.39	
For >20 CLF, Deduct	-24.14	
For 1 Part Mildew Resistant, Add	24.50	
For High-Modulus Non-Acid Curing, Add	14.00	
07 92 19 00-0004 CLF 1/4" x 1/2" Joint, Acoustical Sealant.....	436.93	118.10
For Custom Match Coloring, Add	19.53	
For Up To 3 CLF, Add	23.88	
For >15 CLF, Deduct	-25.91	
For 1 Part Mildew Resistant, Add	28.48	
For High-Modulus Non-Acid Curing, Add	16.27	
07 92 19 00-0005 CLF 3/8" x 3/8" Joint, Acoustical Sealant.....	468.46	118.10
For Custom Match Coloring, Add	27.09	
For Up To 2.5 CLF, Add	26.25	
For >13 CLF, Deduct	-29.07	
For 1 Part Mildew Resistant, Add	39.51	
For High-Modulus Non-Acid Curing, Add	22.58	
07 92 19 00-0006 CLF 3/8" x 1/2" Joint, Acoustical Sealant.....	501.24	118.10
For Custom Match Coloring, Add	34.96	
For Up To 2 CLF, Add	28.70	
For >10 CLF, Deduct	-32.35	
For 1 Part Mildew Resistant, Add	50.98	
For High-Modulus Non-Acid Curing, Add	29.13	
07 92 19 00-0007 CLF 1/2" x 1/2" Joint, Acoustical Sealant.....	573.53	123.18
For Custom Match Coloring, Add	49.26	
For Up To 1.4 CLF, Add	33.81	
For >7.5 CLF, Deduct	-38.94	
For 1 Part Mildew Resistant, Add	71.84	
For High-Modulus Non-Acid Curing, Add	41.05	

07 95 Expansion Control (07 90)**07 95 13 Expansion Joint Cover Assemblies (07 95)**

Note: Includes necessary waterproofing mastics/caulking.

07 95 13 13 Interior Expansion Joint Cover Assemblies (07 95 13)**07 95 13 13-0001 Interior Floor Expansion Joint Cover Assemblies (07 95 13 13)****07 95 13 13-0002 With 1" Space (07 95 13 13-0001)**

07 95 13 13-0003 LF 1" Opening Floor Assembly Type, With Aluminum Expansion Joint Cover.....	75.28	6.77
07 95 13 13-0004 LF 1" Opening Floor Assembly Type, With Bronze Expansion Joint Cover	80.76	6.77
07 95 13 13-0005 LF 1" Opening Floor Assembly Type, With Stainless Steel Expansion Joint Cover	96.08	6.77

07 95 13 13-0006 With 2" Space (07 95 13 13-0001)

07 95 13 13-0007 LF 2" Opening Floor Assembly Type, Aluminum Expansion Joint Cover.....	101.02	6.77
07 95 13 13-0008 LF 2" Opening Floor Assembly Type, Bronze Expansion Joint Cover	99.74	6.77
07 95 13 13-0009 LF 2" Opening Floor Assembly Type, Stainless Steel Expansion Joint Cover	132.23	6.77

07 95 13 13-0010 Interior Ceiling And Wall Expansion Joint Cover Assemblies (07 95 13 13)**07 95 13 13-0011 With 1" Space (07 95 13 13-0010)**



Thermal And Moisture Protection	07
Joint Protection	07 90
Expansion Control	07 95

07

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 95 13 13-0012 LF 1" Opening Ceiling And Wall Assembly Type, Aluminum Expansion Joint Cover.....	55.42	6.77
07 95 13 13-0013 LF 1" Opening Ceiling And Wall Assembly Type, Bronze Expansion Joint Cover	67.66	6.77
07 95 13 13-0014 LF 1" Opening Ceiling And Wall Assembly Type, Stainless Steel Expansion Joint Cover	83.89	6.77
07 95 13 13-0015 With 2" Space <small>(07 95 13 13-0010)</small>		
07 95 13 13-0016 LF 2" Opening Ceiling And Wall Assembly Type, Aluminum Expansion Joint Cover.....	70.86	6.77
07 95 13 13-0017 LF 2" Opening Ceiling And Wall Assembly Type, Bronze Expansion Joint Cover	77.14	6.77
07 95 13 13-0018 LF 2" Opening Ceiling And Wall Assembly Type, Stainless Steel Expansion Joint Cover	101.96	6.77
07 95 13 16 Exterior Expansion Joint Cover Assemblies <small>(07 95 13)</small>		
07 95 13 16-0001 Exterior Roof Aluminum Expansion Joint Cover Assemblies <small>(07 95 13 16)</small>		
07 95 13 16-0002 Roof To Roof <small>(07 95 13 16-0001)</small>		
07 95 13 16-0003 LF 1" Opening Aluminum Assemblies, Exterior Roof To Roof Expansion Joint	102.84	4.51
07 95 13 16-0004 LF 2" Opening Aluminum Assemblies, Exterior Roof To Roof Expansion Joint	124.51	4.51
07 95 13 16-0005 LF 3" Opening Aluminum Assemblies, Exterior Roof To Roof Expansion Joint	139.43	4.51
07 95 13 16-0006 Roof To Wall <small>(07 95 13 16-0001)</small>		
07 95 13 16-0007 LF 1" Opening Aluminum Assemblies, Exterior Roof To Wall Expansion Joint.....	75.79	4.51
07 95 13 16-0008 LF 2" Opening Aluminum Assemblies, Exterior Roof To Wall Expansion Joint.....	102.31	4.51
07 95 13 16-0009 Flat Wall To Wall <small>(07 95 13 16-0001)</small>		
07 95 13 16-0010 LF 1" Opening Aluminum Assemblies, Exterior Wall To Wall Expansion Joint	55.92	4.51
07 95 13 16-0011 LF 2" Opening Aluminum Assemblies, Exterior Wall To Wall Expansion Joint	71.83	4.51
07 95 13 16-0012 LF 3" Opening Aluminum Assemblies, Exterior Wall To Wall Expansion Joint	91.04	4.51
07 95 13 16-0013 Corner To Flat Wall <small>(07 95 13 16-0001)</small>		
07 95 13 16-0014 LF 1" Opening Aluminum Assemblies, Exterior Corner To Wall Expansion Joint	52.33	4.51
07 95 13 16-0015 LF 2" Opening Aluminum Assemblies, Exterior Corner To Wall Expansion Joint	62.94	4.51
07 95 13 16-0016 LF 3" Opening Aluminum Assemblies, Exterior Corner To Wall Expansion Joint	92.75	4.51

END OF SECTION 07

07	07 Thermal And Moisture Protection
	07 90 Joint Protection
	07 95 Expansion Control



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
------------------------------	---------------------------	-------------------------

THIS PAGE INTENTIONALLY LEFT BLANK



Openings	08	
Operation and Maintenance of Openings	08 01	08
Operation and Maintenance of Doors and Frames	08 01 10	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
------------------------------	---------------------------	-------------------------

08 Openings

08 01 Operation and Maintenance of Openings⁽⁰⁸⁾

08 01 10 Operation and Maintenance of Doors and Frames^(08 01)

08 01 11 Operation and Maintenance of Metal Doors and Frames^(08 01 10)

08 01 11 61 Metal Doors and Frames Repair^(08 01 11)

08 01 11 61-0001		Hollow Metal Door Repair ^(08 01 11 61)	
		Note: Repairs are based on holes or damage of less than 1/2 of a square foot.	
08 01 11 61-0002	EA	Up To 1 SI, Patch Small Drill Holes	21.13
		Note: Per hinge location - sand to bare metal, mix/patch with bondo, fine grit sand smooth for finish	
08 01 11 61-0003	EA	>1 To 6 SI, Patch Small Drill Holes.....	42.41
		Note: Per hinge location - sand to bare metal, mix/patch with bondo, fine grit sand smooth for finish	
08 01 11 61-0004	LF	Patch Deep Scrapes Or Cuts In Doors	51.08

08 01 50 Operation and Maintenance of Windows^(08 01)

08 01 52 Operation and Maintenance of Wood Windows^(08 01 50)

08 01 52 61 Wood Window Repairs^(08 01 52)

08 01 52 61-0001		Window Restoration And Replacement ^(08 01 52 61)	
08 01 52 61-0002	EA	Removal And Replacement Of Sash Guides	14.07
08 01 52 61-0003	EA	Removal And Replacement Of Window Arms	39.36
08 01 52 61-0004	EA	Removal And Replacement Of Window Crank Operator	45.08
08 01 52 61-0005	EA	Removal And Replacement Of Brass Window Sash Pull	27.34
08 01 52 61-0006	EA	Removal And Replacement Of Brass Window Sash Lock.....	24.79
08 01 52 61-0007	EA	Removal And Replacement Of Window Balance, Removable Sash Window	30.84
		Note: Channel, spiral or coil balance.	
08 01 52 61-0008	EA	Removal And Replacement Of Window Balance, Sash Window, Wooden Stops And/or Casing.....	94.35
		Note: Channel, spiral or coil balance.	
		For Replacing Two Balances In One Window, Deduct	-35.06

08 01 80 Maintenance of Glazing^(08 01)

08 01 81 Maintenance of Glass Glazing^(08 01 80)

08 01 81 10 Maintenance of Glass Glazing^(08 01 81)

08 01 81 10-0001		Glazing Compound Repair ^(08 01 81 10)	
08 01 81 10-0002	LF	Removal And Replacement Of Up To 1/2" Wide Damaged, Broken Or Cracked Window Glazing (For Glazing Compound Repair)	7.91

08 05 Common Work Results for Openings⁽⁰⁸⁾

08 05 13 Door Options and Modifications^(08 05)

Note: Excludes removal and reinstallation of door.

08 05 13 00-0001 Door Vision Panels (Pemko LT-S1)^(08 05 13)

Note: Factory primed or powder coated.

08 05 13 00-0002	EA	For Up To 1 SF, Factory Installed 20 Gauge Galvannealed Steel Frame With 3/8" Glazing Pocket For Vision Glass In Door, Add	145.76
		For 9/16" To 1-1/16" Glazing Pocket, Add	72.88
08 05 13 00-0003	EA	For >1 To 2 SF, Factory Installed 20 Gauge Galvannealed Steel Frame With 3/8" Glazing Pocket For Vision Glass In Door, Add	184.50
		For 9/16" To 1-1/16" Glazing Pocket, Add	92.25
08 05 13 00-0004	EA	For >2 To 4 SF, Factory Installed 20 Gauge Galvannealed Steel Frame With 3/8" Glazing Pocket For Vision Glass In Door, Add	214.02
		For 9/16" To 1-1/16" Glazing Pocket, Add	107.01
08 05 13 00-0005	EA	For >4 To 6 SF, Factory Installed 20 Gauge Galvannealed Steel Frame With 3/8" Glazing Pocket For Vision Glass In Door, Add	273.06
		For 9/16" To 1-1/16" Glazing Pocket, Add	136.53
08 05 13 00-0006	EA	For >6 To 8 SF, Factory Installed 20 Gauge Galvannealed Steel Frame With 3/8" Glazing Pocket For Vision Glass In Door, Add	354.25
		For 9/16" To 1-1/16" Glazing Pocket, Add	177.13
08 05 13 00-0007	EA	For >8 To 10 SF, Factory Installed 20 Gauge Galvannealed Steel Frame With 3/8" Glazing Pocket For Vision Glass In Door, Add	452.03
		For 9/16" To 1-1/16" Glazing Pocket, Add	226.02
08 05 13 00-0008	EA	For >10 SF, Factory Installed 20 Gauge Galvannealed Steel Frame With 3/8" Glazing Pocket For Vision Glass In Door, Add	479.71
		For 9/16" To 1-1/16" Glazing Pocket, Add	239.86
08 05 13 00-0009	EA	For Up To 1 SF, Site Installed 20 Gauge Galvannealed Steel Frame With 3/8" Glazing Pocket For Vision Glass In Door, Add	259.55
		For 9/16" To 1-1/16" Glazing Pocket, Add	66.26

08 Openings**08 05 Common Work Results for Openings****08 05 13 Door Options and Modifications**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 05 13 00-0010	EA		For >1 To 2 SF, Site Installed 20 Gauge Galvanized Steel Frame With 3/8" Glazing Pocket For Vision Glass In Door, Add.....	307.47	
			<i>For 9/16" To 1-1/16" Glazing Pocket, Add</i>	83.87	
08 05 13 00-0011	EA		For >2 To 4 SF, Site Installed 20 Gauge Galvanized Steel Frame With 3/8" Glazing Pocket For Vision Glass In Door, Add.....	347.01	
			<i>For 9/16" To 1-1/16" Glazing Pocket, Add</i>	97.29	
08 05 13 00-0012	EA		For >4 To 6 SF, Site Installed 20 Gauge Galvanized Steel Frame With 3/8" Glazing Pocket For Vision Glass In Door, Add.....	413.39	
			<i>For 9/16" To 1-1/16" Glazing Pocket, Add</i>	124.12	
08 05 13 00-0013	EA		For >6 To 8 SF, Site Installed 20 Gauge Galvanized Steel Frame With 3/8" Glazing Pocket For Vision Glass In Door, Add.....	499.89	
			<i>For 9/16" To 1-1/16" Glazing Pocket, Add</i>	161.02	
08 05 13 00-0014	EA		For >8 To 10 SF, Site Installed 20 Gauge Galvanized Steel Frame With 3/8" Glazing Pocket For Vision Glass In Door, Add.....	601.50	
			<i>For 9/16" To 1-1/16" Glazing Pocket, Add</i>	205.47	
08 05 13 00-0015	EA		For >10 SF, Site Installed 20 Gauge Galvanized Steel Frame With 3/8" Glazing Pocket For Vision Glass In Door, Add.....	639.36	
			<i>For 9/16" To 1-1/16" Glazing Pocket, Add</i>	218.05	
08 05 13 00-0016			Door Louvers, Inverted "Y" 50% Free Air (Pemko LV-IY) <small>(08 05 13)</small>		
			Note: Factory primed or powder coated.		
08 05 13 00-0017	EA		For Up To 1 SF, Factory Installed 20 Gauge Galvanized Inverted "Y" Blades, 18 Gauge Galvanized Frame Louver In Door, Add.....	138.99	
08 05 13 00-0018	EA		For >1 To 2 SF, Factory Installed 20 Gauge Galvanized Inverted "Y" Blades, 18 Gauge Galvanized Frame Louver In Door, Add.....	157.89	
08 05 13 00-0019	EA		For >2 To 4 SF, Factory Installed 20 Gauge Galvanized Inverted "Y" Blades, 18 Gauge Galvanized Frame Louver In Door, Add.....	214.59	
08 05 13 00-0020	EA		For >4 To 6 SF, Factory Installed 20 Gauge Galvanized Inverted "Y" Blades, 18 Gauge Galvanized Frame Louver In Door, Add.....	400.17	
08 05 13 00-0021	EA		For >6 To 8 SF, Factory Installed 20 Gauge Galvanized Inverted "Y" Blades, 18 Gauge Galvanized Frame Louver In Door, Add.....	494.87	
08 05 13 00-0022	EA		For >8 To 10 SF, Factory Installed 20 Gauge Galvanized Inverted "Y" Blades, 18 Gauge Galvanized Frame Louver In Door, Add.....	591.10	
08 05 13 00-0023	EA		For >10 To 14 SF, Factory Installed 20 Gauge Galvanized Inverted "Y" Blades, 18 Gauge Galvanized Frame Louver In Door, Add.....	771.33	
08 05 13 00-0024	EA		For >14 To 18 SF, Factory Installed 20 Gauge Galvanized Inverted "Y" Blades, 18 Gauge Galvanized Frame Louver In Door, Add.....	907.96	
			<i>For 18 Gauge Louver And 18 Gauge Frame, Add</i>	108.96	
08 05 13 00-0025	EA		For Up To 1 SF, Site Installed 20 Gauge Galvanized Inverted "Y" Blades, 18 Gauge Galvanized Frame Louver In Door, Add.....	234.27	
08 05 13 00-0026	EA		For >1 To 2 SF, Site Installed 20 Gauge Galvanized Inverted "Y" Blades, 18 Gauge Galvanized Frame Louver In Door, Add.....	262.70	
08 05 13 00-0027	EA		For >2 To 4 SF, Site Installed 20 Gauge Galvanized Inverted "Y" Blades, 18 Gauge Galvanized Frame Louver In Door, Add.....	328.92	
08 05 13 00-0028	EA		For >4 To 6 SF, Site Installed 20 Gauge Galvanized Inverted "Y" Blades, 18 Gauge Galvanized Frame Louver In Door, Add.....	524.03	
08 05 13 00-0029	EA		For >6 To 8 SF, Site Installed 20 Gauge Galvanized Inverted "Y" Blades, 18 Gauge Galvanized Frame Louver In Door, Add.....	628.26	
08 05 13 00-0030	EA		For >8 To 10 SF, Site Installed 20 Gauge Galvanized Inverted "Y" Blades, 18 Gauge Galvanized Frame Louver In Door, Add.....	734.02	
08 05 13 00-0031	EA		For >10 To 14 SF, Site Installed 20 Gauge Galvanized Inverted "Y" Blades, 18 Gauge Galvanized Frame Louver In Door, Add.....	923.77	
08 05 13 00-0032	EA		For >14 To 18 SF, Site Installed 20 Gauge Galvanized Inverted "Y" Blades, 18 Gauge Galvanized Frame Louver In Door, Add.....	1,066.75	
			<i>For 18 Gauge Louver And 18 Gauge Frame, Add</i>	108.96	
08 05 13 00-0033			Fire Rated Fusible Link Louvers (Pemko LV-FL) <small>(08 05 13)</small>		
			Note: Factory primed or powder coated.		
08 05 13 00-0034	EA		For Up To 1 SF, Factory Installed 16 Gauge Galvanized Adjustable "Z" Blades, 18 Gauge Galvanized Frame Fire Rated Fusible Link Louver In Door, Add.....	281.45	
08 05 13 00-0035	EA		For >1 To 2 SF, Factory Installed 16 Gauge Galvanized Adjustable "Z" Blades, 18 Gauge Galvanized Frame Fire Rated Fusible Link Louver In Door, Add.....	322.07	
08 05 13 00-0036	EA		For >2 To 4 SF, Factory Installed 16 Gauge Galvanized Adjustable "Z" Blades, 18 Gauge Galvanized Frame Fire Rated Fusible Link Louver In Door, Add.....	378.31	
08 05 13 00-0037	EA		For Up To 1 SF, Site Installed 16 Gauge Galvanized Adjustable "Z" Blades, 18 Gauge Galvanized Frame Fire Rated Fusible Link Louver In Door, Add.....	395.78	
08 05 13 00-0038	EA		For >1 To 2 SF, Site Installed 16 Gauge Galvanized Adjustable "Z" Blades, 18 Gauge Galvanized Frame Fire Rated Fusible Link Louver In Door, Add.....	449.11	
08 05 13 00-0039	EA		For >2 To 4 SF, Site Installed 16 Gauge Galvanized Adjustable "Z" Blades, 18 Gauge Galvanized Frame Fire Rated Fusible Link Louver In Door, Add.....	515.51	
08 05 13 00-0040			Door Hardware Preparation <small>(08 05 13)</small>		
08 05 13 00-0041	EA		Factory Prepare Wood Door (Rated Or Non-Rated) For Mortise Lockset Hardware.....	95.24	
08 05 13 00-0042	EA		Prepare Existing Wood Door (Rated) For Mortise Lockset Hardware.....	234.92	
			Note: Requires door to be taken off site for UL certification.		
08 05 13 00-0043	EA		Prepare Existing Wood Door (Non-Rated) For Mortise Lockset Hardware.....	107.94	
08 05 13 00-0044	EA		Prepare Existing Wood Door (Rated) For Cylindrical Lockset Hardware.....	190.49	
			Note: Requires door to be taken off site for UL certification.		
08 05 13 00-0045	EA		Prepare Existing Wood Door (Non-Rated) For Cylindrical Lockset Hardware.....	31.75	
08 05 13 00-0046	EA		Prepare Existing Wood Door (Rated) For Concealed Vertical Rod.....	349.26	
			Note: Requires door to be taken off site for UL certification.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 05 13 00-0047 EA Prepare Existing Wood Door (Non-Rated) For Concealed Vertical Rod.....	222.23	
08 05 13 00-0048 EA Prepare Existing Wood Door (Rated) For Electric Hardware.....	234.92	
Note: Requires door to be taken off site for UL certification.		
08 05 13 00-0049 EA Prepare Existing Door (Non-Rated) For Electric Hardware	107.94	
08 05 13 00-0050 Door Modifications (08 05 13)		
08 05 13 00-0051 EA Factory Installed Sound Proofing (STC 28) In Metal Door.....	158.15	
08 05 13 00-0052 SF For 16 Gauge Steel Metal Plate Bolted On Door.....	31.23	
Note: Includes mounting hardware.		
08 05 13 00-0053 EA Trim Bottom Of Existing Steel Door For Installation Of Carpet Or Tile	114.33	
Note: Excludes removal and reinstallation of door.		
08 05 13 00-0054 EA Trim Bottom Of Existing Wood Door For Installation Of Carpet Or Tile	57.54	
Note: Excludes removal and reinstallation of door.		
08 05 13 00-0055 EA Modify Metal Door Frame For Door Swing	1,407.33	
Note: Includes removal of door; install blank hinge plates, new continuous hinge, blank strike plate, new strike plate and reinstallation of door.		
08 05 13 00-0056 EA Removal And Reinstallation Of Door	107.98	
08 05 13 00-0057 EA Removal And Reinstallation Of Metal Door Frame	211.72	
08 05 13 00-0058 EA Removal And Reinstallation Of Wood Door Frame.....	127.87	
08 05 13 00-0059 EA Factory Trim Wood Door Edge For Custom Width	83.12	

08 30 Specialty Doors and Frames (08)

Note: Includes caulk, sealant and mounting anchors.

08 31 Access Doors and Panels (08 30)

See CSI section 07 72 33 00-0000 for roof hatches.

08 31 13 Access Doors and Frames (08 31)

08 31 13 00-0001 Stainless Steel Access Doors (08 31 13)

08 31 13 00-0002 Fire Rated Stainless Steel Access Doors (08 31 13 00-0001)

08 31 13 00-0003 EA 12" x 12" Fire Rated Stainless Steel Access Door With Cam Latch	469.62	75.02
08 31 13 00-0004 EA 12" x 18" Fire Rated Stainless Steel Access Door With Cam Latch	544.12	79.92
08 31 13 00-0005 EA 18" x 18" Fire Rated Stainless Steel Access Door With Cam Latch	632.50	84.53
08 31 13 00-0006 EA 24" x 18" Fire Rated Stainless Steel Access Door With Cam Latch	727.28	88.82
08 31 13 00-0007 EA 24" x 24" Fire Rated Stainless Steel Access Door With Cam Latch	743.48	89.28
08 31 13 00-0008 EA 24" x 36" Fire Rated Stainless Steel Access Door With Cam Latch	960.88	92.04

08 31 13 00-0009 Stainless Steel Access Doors (08 31 13 00-0001)

08 31 13 00-0010 EA 8" x 8" Stainless Steel Access Door With Cam Latch	201.67	57.52
08 31 13 00-0011 EA 12" x 12" Stainless Steel Access Door With Cam Latch	237.96	75.02
08 31 13 00-0012 EA 12" x 18" Stainless Steel Access Door With Cam Latch	329.62	79.92
08 31 13 00-0013 EA 18" x 18" Stainless Steel Access Door With Cam Latch	353.38	84.53
08 31 13 00-0014 EA 24" x 18" Stainless Steel Access Door With Cam Latch	407.07	88.82
08 31 13 00-0015 EA 24" x 24" Stainless Steel Access Door With Cam Latch	459.84	89.28

08 31 13 00-0016 Steel Access Doors (08 31 13)

Note: Includes paintable powder coated finish.

08 31 13 00-0017 Insulated Fire Rated Steel Access Doors (08 31 13 00-0016)

08 31 13 00-0018 EA 12" x 12" Insulated Fire Rated Steel Access Door With Cam Latch	295.24	75.47
08 31 13 00-0019 EA 12" x 18" Insulated Fire Rated Steel Access Door With Cam Latch	359.71	79.92
08 31 13 00-0020 EA 18" x 18" Insulated Fire Rated Steel Access Door With Cam Latch	361.50	84.53
08 31 13 00-0021 EA 24" x 18" Insulated Fire Rated Steel Access Door With Cam Latch	424.57	89.28
08 31 13 00-0022 EA 24" x 24" Insulated Fire Rated Steel Access Door With Cam Latch	442.06	89.28
08 31 13 00-0023 EA 24" x 36" Insulated Fire Rated Steel Access Door With Cam Latch	580.47	92.04
08 31 13 00-0024 EA 24" x 48" Insulated Fire Rated Steel Access Door With Cam Latch	663.92	95.88
08 31 13 00-0025 EA 36" x 36" Insulated Fire Rated Steel Access Door With Cam Latch	808.67	95.88
08 31 13 00-0026 EA 48" x 48" Insulated Fire Rated Steel Access Door With Cam Latch	1,033.50	115.05

08 31 13 00-0027 Steel Access Doors (08 31 13 00-0016)

08 31 13 00-0028 EA 8" x 8" Steel Access Door With Cam Latch	165.09	57.83
08 31 13 00-0029 EA 12" x 12" Steel Access Door With Cam Latch.....	176.70	75.47
08 31 13 00-0030 EA 12" x 18" Steel Access Door With Cam Latch.....	200.40	79.92
08 31 13 00-0031 EA 18" x 18" Steel Access Door With Cam Latch.....	207.03	84.53
08 31 13 00-0032 EA 24" x 18" Steel Access Door With Cam Latch.....	240.96	89.28
08 31 13 00-0033 EA 24" x 24" Steel Access Door With Cam Latch.....	245.78	89.28
08 31 13 00-0034 EA 24" x 36" Steel Access Door With Cam Latch.....	317.18	92.04
08 31 13 00-0035 EA 36" x 36" Steel Access Door With Cam Latch.....	405.33	95.88

08 31 13 00-0036 Fiberglass Reinforced Polyester (FRP) Access Doors (08 31 13)

08 31 13 00-0037 EA 8" x 8" Fiberglass Reinforced Polyester (FRP) Access Door With Lock	203.26	57.52
08 31 13 00-0038 EA 12" x 12" Fiberglass Reinforced Polyester (FRP) Access Door With Lock	223.93	61.36
08 31 13 00-0039 EA 12" x 18" Fiberglass Reinforced Polyester (FRP) Access Door With Lock	271.86	65.19

08 Openings**08 30 Specialty Doors and Frames****08 31 Access Doors and Panels**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
08 31 13 00-0040	EA	18" x 18" Fiberglass Reinforced Polyester (FRP) Access Door With Lock		319.55	69.03
08 31 13 00-0041	EA	24" x 18" Fiberglass Reinforced Polyester (FRP) Access Door With Lock		370.26	72.56
08 31 13 00-0042	EA	24" x 24" Fiberglass Reinforced Polyester (FRP) Access Door With Lock		394.97	72.86
08 31 13 00-0043		Steel Recessed Access Doors For Drywall Application (08 31 13)			
		Note: Includes paintable powder coated finish.			
08 31 13 00-0044	EA	8" x 8" Recessed Steel Access Door With Cam Latch.....	222.88		57.52
		For Recessed Doors In Acoustical Tile, Add	29.85		
08 31 13 00-0045	EA	12" x 12" Recessed Steel Access Door With Cam Latch.....	234.02		61.66
		For Recessed Doors In Acoustical Tile, Add	32.70		
08 31 13 00-0046	EA	12" x 18" Recessed Steel Access Door With Cam Latch.....	250.98		65.19
		For Recessed Doors In Acoustical Tile, Add	34.10		
08 31 13 00-0047	EA	18" x 18" Recessed Steel Access Door With Cam Latch.....	290.58		69.03
		For Recessed Doors In Acoustical Tile, Add	32.35		
08 31 13 00-0048	EA	24" x 18" Recessed Steel Access Door With Cam Latch.....	305.87		72.86
		For Recessed Doors In Acoustical Tile, Add	34.29		
08 31 13 00-0049	EA	24" x 24" Recessed Steel Access Door With Cam Latch.....	331.31		72.86
		For Recessed Doors In Acoustical Tile, Add	30.47		
08 31 13 00-0050	EA	24" x 36" Recessed Steel Access Door With Cam Latch.....	413.35		92.04
		For Recessed Doors In Acoustical Tile, Add	39.25		
08 31 13 00-0051	EA	36" x 36" Recessed Steel Access Door With Cam Latch.....	572.05		95.88
		For Recessed Doors In Acoustical Tile, Add	19.66		
08 31 13 00-0052		Steel Crawl Space Doors And Frames (08 31 13)			
		Note: Includes paintable powder coated finish.			
08 31 13 00-0053	EA	24" x 24" Steel Crawl Space Door With Cam Latch.....	259.81		97.11
08 31 13 00-0054	EA	30" x 24" Steel Crawl Space Door With Cam Latch.....	357.78		117.66
08 31 13 00-0055	EA	30" x 30" Steel Crawl Space Door With Cam Latch.....	399.44		127.78

08 60 Roof Windows and Skylights (08)

Note: Includes hardware, caulk, sealant and necessary anchors.

08 62 Unit Skylights (08 60)**08 62 23 Tubular Skylights** (08 62)**08 62 23 00-0001 Aluminum Framed Solar Tube Skylights** (08 62 23)

Note: Includes knock down curb with safety security guard, class 1 hail rated double glazed skylight, light shaft top trim, reflective light well, T-bar ceiling frame, acrylic diffuser lens and lens clip.

08 62 23 00-0002 31-5/8" x 31-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylights (08 62 23 00-0001)

08 62 23 00-0003	EA	2' Shaft Length, 31-5/8" x 31-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	1,322.95		201.70
		For Class 3 Hail Rated, Add	4.00		
		For Polycarbonate Diffuser Lens, Add	7.00		
		For High Velocity Hurricane Zone Rated, Add	14.00		
		For FM Approved, Add	20.00		
		For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add	49.00		
		For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add	69.00		
		For Single Blade Louver, Add	1,021.75		
08 62 23 00-0004	EA	3' Shaft Length, 31-5/8" x 31-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	1,397.03		206.74
		For Class 3 Hail Rated, Add	4.00		
		For Polycarbonate Diffuser Lens, Add	7.00		
		For High Velocity Hurricane Zone Rated, Add	14.00		
		For FM Approved, Add	20.00		
		For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add	49.00		
		For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add	69.00		
		For Single Blade Louver, Add	1,022.76		
08 62 23 00-0005	EA	4' Shaft Length, 31-5/8" x 31-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	1,468.99		211.79
		For Class 3 Hail Rated, Add	4.00		
		For Polycarbonate Diffuser Lens, Add	7.00		
		For High Velocity Hurricane Zone Rated, Add	14.00		
		For FM Approved, Add	20.00		
		For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add	49.00		
		For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add	69.00		
		For Single Blade Louver, Add	1,023.77		
08 62 23 00-0006	EA	5' Shaft Length, 31-5/8" x 31-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	1,570.81		216.83
		For Class 3 Hail Rated, Add	4.00		
		For Polycarbonate Diffuser Lens, Add	7.00		
		For High Velocity Hurricane Zone Rated, Add	14.00		
		For FM Approved, Add	20.00		
		For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add	49.00		
		For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add	69.00		
		For Single Blade Louver, Add	1,024.78		



Openings	08
Roof Windows and Skylights	08 60
Unit Skylights	08 62

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 62 23 00-0007	EA		6' Shaft Length, 31-5/8" x 31-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	1,659.84	221.87
			<i>For Class 3 Hail Rated, Add</i>	4.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	7.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
			<i>For FM Approved, Add</i>	20.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	49.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	69.00	
			<i>For Single Blade Louver, Add</i>	1,025.78	
08 62 23 00-0008	EA		7' Shaft Length, 31-5/8" x 31-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	1,731.80	226.91
			<i>For Class 3 Hail Rated, Add</i>	4.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	7.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
			<i>For FM Approved, Add</i>	20.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	49.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	69.00	
			<i>For Single Blade Louver, Add</i>	1,026.79	
08 62 23 00-0009	EA		8' Shaft Length, 31-5/8" x 31-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	1,803.75	231.95
			<i>For Class 3 Hail Rated, Add</i>	4.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	7.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
			<i>For FM Approved, Add</i>	20.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	49.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	69.00	
			<i>For Single Blade Louver, Add</i>	1,027.80	
08 62 23 00-0010	EA		9' Shaft Length, 31-5/8" x 31-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	1,922.65	237.00
			<i>For Class 3 Hail Rated, Add</i>	4.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	7.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
			<i>For FM Approved, Add</i>	20.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	49.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	69.00	
			<i>For Single Blade Louver, Add</i>	1,028.81	
08 62 23 00-0011	EA		10' Shaft Length, 31-5/8" x 31-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	1,994.60	242.04
			<i>For Class 3 Hail Rated, Add</i>	4.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	7.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
			<i>For FM Approved, Add</i>	20.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	49.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	69.00	
			<i>For Single Blade Louver, Add</i>	1,029.82	
08 62 23 00-0012	EA		11' Shaft Length, 31-5/8" x 31-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	2,068.69	247.08
			<i>For Class 3 Hail Rated, Add</i>	4.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	7.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
			<i>For FM Approved, Add</i>	20.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	49.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	69.00	
			<i>For Single Blade Louver, Add</i>	1,030.83	
08 62 23 00-0013	EA		12' Shaft Length, 31-5/8" x 31-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	2,140.64	252.13
			<i>For Class 3 Hail Rated, Add</i>	4.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	7.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
			<i>For FM Approved, Add</i>	20.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	49.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	69.00	
			<i>For Single Blade Louver, Add</i>	1,031.84	
08 62 23 00-0014	EA		13' Shaft Length, 31-5/8" x 31-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	2,259.54	257.17
			<i>For Class 3 Hail Rated, Add</i>	4.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	7.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
			<i>For FM Approved, Add</i>	20.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	49.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	69.00	
			<i>For Single Blade Louver, Add</i>	1,032.84	
08 62 23 00-0015	EA		14' Shaft Length, 31-5/8" x 31-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	2,331.49	262.21
			<i>For Class 3 Hail Rated, Add</i>	4.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	7.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
			<i>For FM Approved, Add</i>	20.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	49.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	69.00	
			<i>For Single Blade Louver, Add</i>	1,033.85	

08 Openings**08 60 Roof Windows and Skylights****08 62 Unit Skylights**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 62 23 00-0016	EA		15' Shaft Length, 31-5/8" x 31-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	2,403.46	267.26
			<i>For Class 3 Hail Rated, Add</i>	4.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	7.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
			<i>For FM Approved, Add</i>	20.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	49.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	69.00	
			<i>For Single Blade Louver, Add</i>	1,034.86	
08 62 23 00-0017	EA		16' Shaft Length, 31-5/8" x 31-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	2,475.41	272.29
			<i>For Class 3 Hail Rated, Add</i>	4.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	7.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
			<i>For FM Approved, Add</i>	20.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	49.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	69.00	
			<i>For Single Blade Louver, Add</i>	1,035.87	
08 62 23 00-0018			31-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylights <small>(08 62 23 00-0001)</small>		
08 62 23 00-0019	EA		2' Shaft Length, 31-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	1,610.97	201.70
			<i>For Class 3 Hail Rated, Add</i>	5.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	8.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
			<i>For FM Approved, Add</i>	22.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	50.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	86.00	
			<i>For Single Blade Louver, Add</i>	1,021.75	
08 62 23 00-0020	EA		3' Shaft Length, 31-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	1,712.79	206.74
			<i>For Class 3 Hail Rated, Add</i>	5.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	8.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
			<i>For FM Approved, Add</i>	22.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	50.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	86.00	
			<i>For Single Blade Louver, Add</i>	1,022.76	
08 62 23 00-0021	EA		4' Shaft Length, 31-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	1,814.61	211.79
			<i>For Class 3 Hail Rated, Add</i>	5.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	8.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
			<i>For FM Approved, Add</i>	22.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	50.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	86.00	
			<i>For Single Blade Louver, Add</i>	1,023.77	
08 62 23 00-0022	EA		5' Shaft Length, 31-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	1,916.43	216.83
			<i>For Class 3 Hail Rated, Add</i>	5.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	8.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
			<i>For FM Approved, Add</i>	22.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	50.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	86.00	
			<i>For Single Blade Louver, Add</i>	1,024.78	
08 62 23 00-0023	EA		6' Shaft Length, 31-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	2,082.27	221.87
			<i>For Class 3 Hail Rated, Add</i>	5.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	8.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
			<i>For FM Approved, Add</i>	22.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	50.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	86.00	
			<i>For Single Blade Louver, Add</i>	1,025.78	
08 62 23 00-0024	EA		7' Shaft Length, 31-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	2,184.10	226.91
			<i>For Class 3 Hail Rated, Add</i>	5.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	8.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
			<i>For FM Approved, Add</i>	22.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	50.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	86.00	
			<i>For Single Blade Louver, Add</i>	1,026.79	
08 62 23 00-0025	EA		8' Shaft Length, 31-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	2,285.92	231.95
			<i>For Class 3 Hail Rated, Add</i>	5.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	8.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
			<i>For FM Approved, Add</i>	22.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	50.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	86.00	
			<i>For Single Blade Louver, Add</i>	1,027.80	



Openings	08
Roof Windows and Skylights	08 60
Unit Skylights	08 62

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 62 23 00-0026	EA		9' Shaft Length, 31-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	2,451.75	237.00
			<i>For Class 3 Hail Rated, Add</i>	5.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	8.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
			<i>For FM Approved, Add</i>	22.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	50.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	86.00	
			<i>For Single Blade Louver, Add</i>	1,028.81	
08 62 23 00-0027	EA		10' Shaft Length, 31-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	2,553.58	242.04
			<i>For Class 3 Hail Rated, Add</i>	5.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	8.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
			<i>For FM Approved, Add</i>	22.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	50.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	86.00	
			<i>For Single Blade Louver, Add</i>	1,029.82	
08 62 23 00-0028	EA		11' Shaft Length, 31-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	2,655.41	247.08
			<i>For Class 3 Hail Rated, Add</i>	5.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	8.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
			<i>For FM Approved, Add</i>	22.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	50.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	86.00	
			<i>For Single Blade Louver, Add</i>	1,030.83	
08 62 23 00-0029	EA		12' Shaft Length, 31-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	2,757.23	252.13
			<i>For Class 3 Hail Rated, Add</i>	5.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	8.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
			<i>For FM Approved, Add</i>	22.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	50.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	86.00	
			<i>For Single Blade Louver, Add</i>	1,031.84	
08 62 23 00-0030	EA		13' Shaft Length, 31-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	2,923.06	257.17
			<i>For Class 3 Hail Rated, Add</i>	5.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	8.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
			<i>For FM Approved, Add</i>	22.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	50.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	86.00	
			<i>For Single Blade Louver, Add</i>	1,032.84	
08 62 23 00-0031	EA		14' Shaft Length, 31-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	3,024.88	262.21
			<i>For Class 3 Hail Rated, Add</i>	5.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	8.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
			<i>For FM Approved, Add</i>	22.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	50.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	86.00	
			<i>For Single Blade Louver, Add</i>	1,033.85	
08 62 23 00-0032	EA		15' Shaft Length, 31-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	3,126.71	267.26
			<i>For Class 3 Hail Rated, Add</i>	5.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	8.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
			<i>For FM Approved, Add</i>	22.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	50.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	86.00	
			<i>For Single Blade Louver, Add</i>	1,034.86	
08 62 23 00-0033	EA		16' Shaft Length, 31-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	3,228.53	272.29
			<i>For Class 3 Hail Rated, Add</i>	5.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	8.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
			<i>For FM Approved, Add</i>	22.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	50.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	86.00	
			<i>For Single Blade Louver, Add</i>	1,035.87	
08 62 23 00-0034			55-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylights		
			<small>(08 62 23 00-0001)</small>		
08 62 23 00-0035	EA		2' Shaft Length, 55-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	2,158.50	226.91
			<i>For Class 3 Hail Rated, Add</i>	10.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	14.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	22.00	
			<i>For FM Approved, Add</i>	36.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	95.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	145.00	
			<i>For Single Blade Louver, Add</i>	1,026.79	

08 Openings**08 60 Roof Windows and Skylights****08 62 Unit Skylights**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
08 62 23 00-0036	EA	3' Shaft Length, 55-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....		2,300.85	231.95
		<i>For Class 3 Hail Rated, Add</i>		10.00	
		<i>For Polycarbonate Diffuser Lens, Add</i>		14.00	
		<i>For High Velocity Hurricane Zone Rated, Add</i>		22.00	
		<i>For FM Approved, Add</i>		36.00	
		<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>		95.00	
		<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>		145.00	
		<i>For Single Blade Louver, Add</i>		1,027.80	
08 62 23 00-0037	EA	4' Shaft Length, 55-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....		2,445.35	237.00
		<i>For Class 3 Hail Rated, Add</i>		10.00	
		<i>For Polycarbonate Diffuser Lens, Add</i>		14.00	
		<i>For High Velocity Hurricane Zone Rated, Add</i>		22.00	
		<i>For FM Approved, Add</i>		36.00	
		<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>		95.00	
		<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>		145.00	
		<i>For Single Blade Louver, Add</i>		1,028.81	
08 62 23 00-0038	EA	5' Shaft Length, 55-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....		2,587.71	242.04
		<i>For Class 3 Hail Rated, Add</i>		10.00	
		<i>For Polycarbonate Diffuser Lens, Add</i>		14.00	
		<i>For High Velocity Hurricane Zone Rated, Add</i>		22.00	
		<i>For FM Approved, Add</i>		36.00	
		<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>		95.00	
		<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>		145.00	
		<i>For Single Blade Louver, Add</i>		1,029.82	
08 62 23 00-0039	EA	6' Shaft Length, 55-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....		2,815.42	247.08
		<i>For Class 3 Hail Rated, Add</i>		10.00	
		<i>For Polycarbonate Diffuser Lens, Add</i>		14.00	
		<i>For High Velocity Hurricane Zone Rated, Add</i>		22.00	
		<i>For FM Approved, Add</i>		36.00	
		<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>		95.00	
		<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>		145.00	
		<i>For Single Blade Louver, Add</i>		1,030.83	
08 62 23 00-0040	EA	7' Shaft Length, 55-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....		2,957.77	252.13
		<i>For Class 3 Hail Rated, Add</i>		10.00	
		<i>For Polycarbonate Diffuser Lens, Add</i>		14.00	
		<i>For High Velocity Hurricane Zone Rated, Add</i>		22.00	
		<i>For FM Approved, Add</i>		36.00	
		<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>		95.00	
		<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>		145.00	
		<i>For Single Blade Louver, Add</i>		1,031.84	
08 62 23 00-0041	EA	8' Shaft Length, 55-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....		3,100.14	257.17
		<i>For Class 3 Hail Rated, Add</i>		10.00	
		<i>For Polycarbonate Diffuser Lens, Add</i>		14.00	
		<i>For High Velocity Hurricane Zone Rated, Add</i>		22.00	
		<i>For FM Approved, Add</i>		36.00	
		<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>		95.00	
		<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>		145.00	
		<i>For Single Blade Louver, Add</i>		1,032.84	
08 62 23 00-0042	EA	9' Shaft Length, 55-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....		3,329.97	262.21
		<i>For Class 3 Hail Rated, Add</i>		10.00	
		<i>For Polycarbonate Diffuser Lens, Add</i>		14.00	
		<i>For High Velocity Hurricane Zone Rated, Add</i>		22.00	
		<i>For FM Approved, Add</i>		36.00	
		<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>		95.00	
		<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>		145.00	
		<i>For Single Blade Louver, Add</i>		1,033.85	
08 62 23 00-0043	EA	10' Shaft Length, 55-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....		3,472.34	267.26
		<i>For Class 3 Hail Rated, Add</i>		10.00	
		<i>For Polycarbonate Diffuser Lens, Add</i>		14.00	
		<i>For High Velocity Hurricane Zone Rated, Add</i>		22.00	
		<i>For FM Approved, Add</i>		36.00	
		<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>		95.00	
		<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>		145.00	
		<i>For Single Blade Louver, Add</i>		1,034.86	
08 62 23 00-0044	EA	11' Shaft Length, 55-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....		3,614.70	272.29
		<i>For Class 3 Hail Rated, Add</i>		10.00	
		<i>For Polycarbonate Diffuser Lens, Add</i>		14.00	
		<i>For High Velocity Hurricane Zone Rated, Add</i>		22.00	
		<i>For FM Approved, Add</i>		36.00	
		<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>		95.00	
		<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>		145.00	
		<i>For Single Blade Louver, Add</i>		1,035.87	



Openings	08	08
Roof Windows and Skylights	08 60	
Unit Skylights	08 62	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 62 23 00-0045	EA		12' Shaft Length, 55-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	3,757.06	277.34
			<i>For Class 3 Hail Rated, Add</i>	10.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	14.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	22.00	
			<i>For FM Approved, Add</i>	36.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	95.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	145.00	
			<i>For Single Blade Louver, Add</i>	1,036.88	
08 62 23 00-0046	EA		13' Shaft Length, 55-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	3,984.76	282.38
			<i>For Class 3 Hail Rated, Add</i>	10.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	14.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	22.00	
			<i>For FM Approved, Add</i>	36.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	95.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	145.00	
			<i>For Single Blade Louver, Add</i>	1,037.89	
08 62 23 00-0047	EA		14' Shaft Length, 55-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	4,127.13	287.42
			<i>For Class 3 Hail Rated, Add</i>	10.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	14.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	22.00	
			<i>For FM Approved, Add</i>	36.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	95.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	145.00	
			<i>For Single Blade Louver, Add</i>	1,038.90	
08 62 23 00-0048	EA		15' Shaft Length, 55-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	4,271.62	292.47
			<i>For Class 3 Hail Rated, Add</i>	10.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	14.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	22.00	
			<i>For FM Approved, Add</i>	36.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	95.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	145.00	
			<i>For Single Blade Louver, Add</i>	1,039.90	
08 62 23 00-0049	EA		16' Shaft Length, 55-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	4,413.98	297.51
			<i>For Class 3 Hail Rated, Add</i>	10.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	14.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	22.00	
			<i>For FM Approved, Add</i>	36.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	95.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	145.00	
			<i>For Single Blade Louver, Add</i>	1,040.91	

08 63 Metal-Framed Skylights (08 60)

08 63 13 Domed Metal-Framed Skylights (08 63)

08 63 13 00-0001			Domed Aluminum Framed Skylights <small>(08 63 13)</small>		
08 63 13 00-0002			Fixed Dome, Aluminum Framed Skylights <small>(08 63 13 00-0001)</small>		
08 63 13 00-0003			Industrial Style Fixed Dome, Aluminum Framed Skylights <small>(08 63 13 00-0002)</small>		
08 63 13 00-0004			Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylights <small>(08 63 13 00-0003)</small>		
			Note: Includes mill finish aluminum frame, integral condensation and weepage gutters, insulated thermal break, weather sweep, curb seal tape and fasteners. Excludes roof curb and flashing.		
08 63 13 00-0005	EA		27-1/4" x 27-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	729.14	136.15
08 63 13 00-0006	EA		27-1/4" x 51-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	862.16	146.23
08 63 13 00-0007	EA		27-1/4" x 99-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	1,122.30	161.36
08 63 13 00-0008	EA		27-1/4" x 123-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	1,252.68	171.45
08 63 13 00-0009	EA		39-1/4" x 39-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	899.73	146.23
08 63 13 00-0010	EA		39-1/4" x 63-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	1,097.96	161.36
08 63 13 00-0011	EA		39-1/4" x 75-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	1,186.47	171.45
08 63 13 00-0012	EA		39-1/4" x 99-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	1,330.60	181.53
08 63 13 00-0013	EA		39-1/4" x 123-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	1,524.54	196.66
08 63 13 00-0014	EA		51-1/4" x 51-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	1,118.63	171.45
08 63 13 00-0015	EA		51-1/4" x 63-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	1,202.36	176.49
08 63 13 00-0016	EA		51-1/4" x 75-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	1,333.75	181.53

08 Openings**08 60 Roof Windows and Skylights****08 63 Metal-Framed Skylights**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 63 13 00-0017 EA 51-1/4" x 87-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	1,433.37	186.57
08 63 13 00-0018 EA 52-1/4" x 100-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	1,574.34	201.70
08 63 13 00-0019 EA 52-1/4" x 123-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	1,744.96	211.79
08 63 13 00-0020 EA 63-1/4" x 63-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	1,301.98	181.53
08 63 13 00-0021 EA 63-5/8" x 75-5/8" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	1,409.03	191.62
08 63 13 00-0022 EA 63-1/4" x 87-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	1,566.91	196.66
08 63 13 00-0023 EA 63-1/4" x 99-5/8" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	1,655.93	206.74
08 63 13 00-0024 EA 63-1/4" x 123-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	1,879.50	216.83
08 63 13 00-0025 Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylights <small>(08 63 13 00-0003)</small>		
Note: Includes mill finish aluminum frame, integral condensation and weepage gutters, insulated thermal break, weather sweep, curb seal tape and fasteners. Excludes roof curb and flashing.		
08 63 13 00-0026 EA 27-1/4" x 27-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	861.55	136.15
08 63 13 00-0027 EA 27-1/4" x 51-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	991.92	146.23
08 63 13 00-0028 EA 27-1/4" x 99-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	1,225.58	161.36
08 63 13 00-0029 EA 27-1/4" x 123-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	1,358.60	171.45
08 63 13 00-0030 EA 39-1/4" x 39-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	995.07	146.23
08 63 13 00-0031 EA 39-1/4" x 63-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	1,172.11	161.36
08 63 13 00-0032 EA 39-1/4" x 75-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	1,265.92	171.45
08 63 13 00-0033 EA 39-1/4" x 99-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	1,420.64	181.53
08 63 13 00-0034 EA 39-1/4" x 123-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	1,577.50	196.66
08 63 13 00-0035 EA 51-1/4" x 51-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	1,192.78	171.45
08 63 13 00-0036 EA 51-1/4" x 63-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	1,287.10	176.49
08 63 13 00-0037 EA 51-1/4" x 75-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	1,378.77	181.53
08 63 13 00-0038 EA 51-1/4" x 87-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	1,483.69	186.57
08 63 13 00-0039 EA 52-1/4" x 100-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	1,600.82	201.70
08 63 13 00-0040 EA 52-1/4" x 123-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	1,774.09	211.79
08 63 13 00-0041 EA 63-1/4" x 63-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	1,389.37	181.53
08 63 13 00-0042 EA 63-5/8" x 75-5/8" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	1,504.37	191.62
08 63 13 00-0043 EA 63-1/4" x 87-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	1,622.52	196.66
08 63 13 00-0044 EA 63-1/4" x 99-5/8" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	1,716.84	206.74
08 63 13 00-0045 EA 63-1/4" x 123-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	1,919.22	216.83
08 63 13 00-0046 High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylights <small>(08 63 13 00-0003)</small>		
Note: Includes mill finish aluminum frame, integral condensation and weepage gutters, insulated thermal break, weather sweep, curb seal tape and fasteners. Excludes roof curb and flashing.		
08 63 13 00-0047 EA 27-1/4" x 27-1/4" Inside Frame Dimensions, High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	872.14	136.15
08 63 13 00-0048 EA 27-1/4" x 51-1/4" Inside Frame Dimensions, High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	1,013.10	146.23
08 63 13 00-0049 EA 27-1/4" x 99-1/4" Inside Frame Dimensions, High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	1,254.71	161.36
08 63 13 00-0050 EA 39-1/4" x 39-1/4" Inside Frame Dimensions, High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	1,021.55	146.23
08 63 13 00-0051 EA 39-1/4" x 63-1/4" Inside Frame Dimensions, High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	1,209.18	161.36
08 63 13 00-0052 EA 39-1/4" x 75-1/4" Inside Frame Dimensions, High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	1,295.05	171.45
08 63 13 00-0053 EA 39-1/4" x 99-1/4" Inside Frame Dimensions, High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	1,452.42	181.53



	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 63 13 00-0054	EA	51-1/4" x 51-1/4" Inside Frame Dimensions, High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	1,216.62	171.45
08 63 13 00-0055	EA	51-1/4" x 63-1/4" Inside Frame Dimensions, High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	1,308.29	176.49
08 63 13 00-0056	EA	51-1/4" x 75-1/4" Inside Frame Dimensions, High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	1,413.20	181.53
08 63 13 00-0057	EA	51-1/4" x 87-1/4" Inside Frame Dimensions, High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	1,518.11	186.57
08 63 13 00-0058	EA	52-1/4" x 100-1/4" Inside Frame Dimensions, High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	1,643.19	201.70
08 63 13 00-0059	EA	63-1/4" x 63-1/4" Inside Frame Dimensions, High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	1,421.14	181.53
08 63 13 00-0060	EA	63-5/8" x 75-5/8" Inside Frame Dimensions, High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	1,546.74	191.62
08 63 13 00-0061	EA	63-1/4" x 87-1/4" Inside Frame Dimensions, High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	1,664.89	196.66
08 63 13 00-0062	EA	63-1/4" x 99-5/8" Inside Frame Dimensions, High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight	1,759.21	206.74
08 63 13 00-0063		FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylights <small>(08 63 13 00-0003)</small>		
		<small>Note: Includes mill finish aluminum frame, integral condensation and weepage gutters, insulated thermal break, weather sweep, curb seal tape and fasteners. Excludes roof curb and flashing.</small>		
08 63 13 00-0064	EA	27-1/4" x 27-1/4" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	890.68	136.15
08 63 13 00-0065	EA	27-1/4" x 51-1/4" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	1,042.23	146.23
08 63 13 00-0066	EA	27-1/4" x 99-1/4" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	1,281.19	161.36
08 63 13 00-0067	EA	27-1/4" x 123-1/4" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	1,453.94	171.45
08 63 13 00-0068	EA	39-1/4" x 39-1/4" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	1,048.03	146.23
08 63 13 00-0069	EA	39-1/4" x 63-1/4" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	1,233.02	161.36
08 63 13 00-0070	EA	39-1/4" x 75-1/4" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	1,321.53	171.45
08 63 13 00-0071	EA	39-1/4" x 99-1/4" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	1,492.14	181.53
08 63 13 00-0072	EA	51-1/4" x 51-1/4" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	1,245.75	171.45
08 63 13 00-0073	EA	51-1/4" x 63-1/4" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	1,337.42	176.49
08 63 13 00-0074	EA	51-1/4" x 75-1/4" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	1,450.27	181.53
08 63 13 00-0075	EA	51-1/4" x 87-1/4" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	1,557.84	186.57
08 63 13 00-0076	EA	52-1/4" x 100-1/4" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	1,685.57	201.70
08 63 13 00-0077	EA	63-1/4" x 63-1/4" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	1,460.87	181.53
08 63 13 00-0078	EA	63-5/8" x 75-5/8" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	1,586.46	191.62
08 63 13 00-0079	EA	63-1/4" x 87-1/4" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	1,707.26	196.66
08 63 13 00-0080	EA	63-1/4" x 99-5/8" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	1,806.88	206.74
08 63 13 00-0081		Curb Top Inserts <small>(08 63 13 00-0003)</small>		
		<small>Note: For use with industrial style fixed dome skylights for better u-value and solar heat gain coefficient/shading coefficient (SHGC/SC) properties. Includes mill finish aluminum frame and acrylic or polycarbonate glazing. Excludes roof curb and flashing.</small>		
08 63 13 00-0082		Single Glazed, Aluminum Framed Curb Top Inserts <small>(08 63 13 00-0081)</small>		
08 63 13 00-0083	EA	27-1/4" x 51-1/4" Inside Frame Dimensions, Single Glazed, Aluminum Framed Curb Top Insert	278.51	65.55
08 63 13 00-0084	EA	51-1/4" x 51-1/4" Inside Frame Dimensions, Single Glazed, Aluminum Framed Curb Top Insert	365.59	75.63
08 63 13 00-0085	EA	52-1/4" x 100-1/4" Inside Frame Dimensions, Single Glazed, Aluminum Framed Curb Top Insert	584.17	100.85
08 63 13 00-0086	EA	63-5/8" x 75-5/8" Inside Frame Dimensions, Single Glazed, Aluminum Framed Curb Top Insert	539.76	90.76
08 63 13 00-0087	EA	63-1/4" x 99-5/8" Inside Frame Dimensions, Single Glazed, Aluminum Framed Curb Top Insert	643.91	100.85
08 63 13 00-0088		Double Glazed, Aluminum Framed Curb Top Inserts <small>(08 63 13 00-0081)</small>		
08 63 13 00-0089	EA	27-1/4" x 51-1/4" Inside Frame Dimensions, Double Glazed, Aluminum Framed Curb Top Insert.....	365.98	65.55
08 63 13 00-0090	EA	51-1/4" x 51-1/4" Inside Frame Dimensions, Double Glazed, Aluminum Framed Curb Top Insert.....	534.13	75.63
08 63 13 00-0091	EA	52-1/4" x 100-1/4" Inside Frame Dimensions, Double Glazed, Aluminum Framed Curb Top Insert.....	889.26	100.85
08 63 13 00-0092	EA	63-5/8" x 75-5/8" Inside Frame Dimensions, Double Glazed, Aluminum Framed Curb Top Insert.....	864.05	90.76
08 63 13 00-0093	EA	63-1/4" x 99-5/8" Inside Frame Dimensions, Double Glazed, Aluminum Framed Curb Top Insert.....	1,066.34	100.85
08 63 13 00-0094		Triple Glazed, Aluminum Framed Curb Top Inserts <small>(08 63 13 00-0081)</small>		
08 63 13 00-0095	EA	27-1/4" x 51-1/4" Inside Frame Dimensions, Triple Glazed, Aluminum Framed Curb Top Insert	451.32	65.55

08 Openings**08 60 Roof Windows and Skylights****08 63 Metal-Framed Skylights**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 63 13 00-0096 EA 51-1/4" x 51-1/4" Inside Frame Dimensions, Triple Glazed, Aluminum Framed Curb Top Insert	694.15	75.63
08 63 13 00-0097 EA 52-1/4" x 100-1/4" Inside Frame Dimensions, Triple Glazed, Aluminum Framed Curb Top Insert	1,264.76	100.85
08 63 13 00-0098 EA 63-5/8" x 75-5/8" Inside Frame Dimensions, Triple Glazed, Aluminum Framed Curb Top Insert	1,167.01	90.76
08 63 13 00-0099 EA 63-1/4" x 99-5/8" Inside Frame Dimensions, Triple Glazed, Aluminum Framed Curb Top Insert	1,458.91	100.85
08 63 13 00-0100 Pyramid Style Fixed Dome, Aluminum Framed Skylights <small>(08 63 13 00-0002)</small>		
08 63 13 00-0101 Acrylic/Acrylic Double Glazed Prismatic Lens, Pyramid Style Fixed Dome, Aluminum Framed Skylight <small>(08 63 13 00-0100)</small>		
Note: Includes mill finish aluminum frame, integral condensation and weepage gutters, insulated thermal break, weather sweep, curb seal tape and fasteners. Excludes roof curb and flashing.		
08 63 13 00-0102 EA 27-1/4" x 27-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Pyramid Style Fixed Dome, Aluminum Framed Skylight	681.47	136.15
08 63 13 00-0103 EA 39-1/4" x 39-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Pyramid Style Fixed Dome, Aluminum Framed Skylight	825.58	146.23
08 63 13 00-0104 EA 51-1/4" x 51-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Pyramid Style Fixed Dome, Aluminum Framed Skylight	1,044.48	171.45
08 63 13 00-0105 EA 63-1/4" x 63-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Pyramid Style Fixed Dome, Aluminum Framed Skylight	1,272.85	181.53
08 63 13 00-0106 Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Pyramid Style Fixed Dome, Aluminum Framed Skylight <small>(08 63 13 00-0100)</small>		
Note: Includes mill finish aluminum frame, integral condensation and weepage gutters, insulated thermal break, weather sweep, curb seal tape and fasteners. Excludes roof curb and flashing.		
08 63 13 00-0107 EA 27-1/4" x 27-1/4" Inside Frame Dimensions, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Pyramid Style Fixed Dome, Aluminum Framed Skylight.....	888.03	136.15
08 63 13 00-0108 EA 39-1/4" x 39-1/4" Inside Frame Dimensions, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Pyramid Style Fixed Dome, Aluminum Framed Skylight.....	1,037.44	146.23
08 63 13 00-0109 EA 51-1/4" x 51-1/4" Inside Frame Dimensions, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Pyramid Style Fixed Dome, Aluminum Framed Skylight.....	1,237.80	171.45
08 63 13 00-0110 EA 63-1/4" x 63-1/4" Inside Frame Dimensions, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Pyramid Style Fixed Dome, Aluminum Framed Skylight.....	1,450.27	181.53
08 63 13 00-0111 Double Hip Style Fixed Dome, Aluminum Framed Skylights <small>(08 63 13 00-0002)</small>		
08 63 13 00-0112 Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight <small>(08 63 13 00-0111)</small>		
Note: Includes mill finish aluminum frame, integral condensation and weepage gutters, insulated thermal break, weather sweep, curb seal tape and fasteners. Excludes roof curb and flashing.		
08 63 13 00-0113 EA 27-1/4" x 51-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight	779.45	136.15
08 63 13 00-0114 EA 27-1/4" x 99-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight	1,042.85	161.36
08 63 13 00-0115 EA 27-1/4" x 123-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	1,210.30	171.45
08 63 13 00-0116 EA 39-1/4" x 63-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight	997.33	161.36
08 63 13 00-0117 EA 39-1/4" x 75-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight	1,083.19	171.45
08 63 13 00-0118 EA 39-1/4" x 99-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight	1,272.34	181.53
08 63 13 00-0119 EA 39-1/4" x 123-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	1,468.93	196.66
08 63 13 00-0120 EA 51-1/4" x 63-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight	1,130.86	176.49
08 63 13 00-0121 EA 51-1/4" x 75-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight	1,230.47	181.53
08 63 13 00-0122 EA 51-1/4" x 87-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight	1,338.03	186.57
08 63 13 00-0123 EA 52-1/4" x 100-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	1,457.82	201.70
08 63 13 00-0124 EA 52-1/4" x 123-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	1,686.70	211.79
08 63 13 00-0125 EA 63-5/8" x 75-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight	1,379.90	191.62
08 63 13 00-0126 EA 63-1/4" x 87-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight	1,527.19	196.66
08 63 13 00-0127 EA 63-1/4" x 99-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight	1,629.45	206.74
08 63 13 00-0128 EA 63-1/4" x 123-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	1,850.37	216.83
08 63 13 00-0129 Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight <small>(08 63 13 00-0111)</small>		
Note: Includes mill finish aluminum frame, integral condensation and weepage gutters, insulated thermal break, weather sweep, curb seal tape and fasteners. Excludes roof curb and flashing.		
08 63 13 00-0130 EA 27-1/4" x 27-1/4" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	869.49	136.15



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 63 13 00-0131 EA 27-1/4" x 51-1/4" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	1,005.16	146.23
08 63 13 00-0132 EA 27-1/4" x 99-1/4" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	1,238.82	161.36
08 63 13 00-0133 EA 39-1/4" x 39-1/4" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	1,013.61	146.23
08 63 13 00-0134 EA 39-1/4" x 51-1/4" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	1,112.72	156.32
08 63 13 00-0135 EA 39-1/4" x 63-1/4" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	1,193.29	161.36
08 63 13 00-0136 EA 39-1/4" x 75-1/4" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	1,279.16	171.45
08 63 13 00-0137 EA 39-1/4" x 99-1/4" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	1,439.18	181.53
08 63 13 00-0138 EA 51-1/4" x 51-1/4" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	1,206.02	176.49
08 63 13 00-0139 EA 51-1/4" x 63-1/4" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	1,297.69	176.49
08 63 13 00-0140 EA 51-1/4" x 75-1/4" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	1,397.31	181.53
08 63 13 00-0141 EA 51-1/4" x 87-1/4" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	1,499.57	186.57
08 63 13 00-0142 EA 52-1/4" x 100-1/4" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	1,622.01	201.70
08 63 13 00-0143 EA 63-1/4" x 63-1/4" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	1,402.61	181.53
08 63 13 00-0144 EA 63-5/8" x 75-5/8" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	1,528.20	191.62
08 63 13 00-0145 EA 63-1/4" x 87-1/4" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	1,643.71	196.66
08 63 13 00-0146 EA 63-1/4" x 99-5/8" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	1,735.38	206.74
08 63 13 00-0147 Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight <small>(08 63 13 00-0111)</small>		
<small>Note: Includes mill finish aluminum frame, integral condensation and weepage gutters, insulated thermal break, weather sweep, curb seal tape and fasteners. Excludes roof curb and flashing.</small>		
08 63 13 00-0148 EA 27-1/4" x 51-1/4" Inside Frame Dimensions, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	997.21	146.23
08 63 13 00-0149 EA 27-1/4" x 99-1/4" Inside Frame Dimensions, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	1,273.24	161.36
08 63 13 00-0150 EA 39-1/4" x 63-1/4" Inside Frame Dimensions, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	1,222.43	161.36
08 63 13 00-0151 EA 39-1/4" x 75-1/4" Inside Frame Dimensions, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	1,313.58	171.45
08 63 13 00-0152 EA 39-1/4" x 99-1/4" Inside Frame Dimensions, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	1,481.55	181.53
08 63 13 00-0153 EA 51-1/4" x 63-1/4" Inside Frame Dimensions, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	1,329.47	176.49
08 63 13 00-0154 EA 51-1/4" x 75-1/4" Inside Frame Dimensions, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	1,437.03	181.53
08 63 13 00-0155 EA 51-1/4" x 87-1/4" Inside Frame Dimensions, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	1,547.24	186.57
08 63 13 00-0156 EA 52-1/4" x 100-1/4" Inside Frame Dimensions, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	1,664.38	201.70
08 63 13 00-0157 EA 63-5/8" x 75-5/8" Inside Frame Dimensions, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	1,575.87	191.62
08 63 13 00-0158 EA 63-1/4" x 87-1/4" Inside Frame Dimensions, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	1,696.67	196.66
08 63 13 00-0159 EA 63-1/4" x 99-5/8" Inside Frame Dimensions, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	1,793.64	206.74
08 63 13 00-0160 Smoke Vent Dome, Aluminum Framed Skylights <small>(08 63 13 00-0001)</small>		
08 63 13 00-0161 Industrial Style Smoke Vent Dome, Aluminum Framed Skylights <small>(08 63 13 00-0160)</small>		
<small>Note: UL listed or FM approved. Includes mill finish aluminum frame, integral condensation and weepage gutters, insulated thermal break, curb seal tape, weather sweep, fasteners, fusible link with a minimum temperature rating of 165 degrees, gas shocks and exterior manual release cable for testing. Excludes roof curb and flashing.</small>		
08 63 13 00-0162 Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylights <small>(08 63 13 00-0161)</small>		
08 63 13 00-0163 10 LB Uplift Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylights <small>(08 63 13 00-0162)</small>		
08 63 13 00-0164 EA 52-1/4" x 100-1/4" Inside Frame Dimensions, 10 LB Uplift Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight.....	3,698.20	201.70
08 63 13 00-0165 EA 63-5/8" x 75-5/8" Inside Frame Dimensions, 10 LB Uplift Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight.....	3,437.04	191.62
08 63 13 00-0166 EA 63-1/4" x 99-5/8" Inside Frame Dimensions, 10 LB Uplift Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight.....	3,875.63	201.70

08 Openings**08 60 Roof Windows and Skylights****08 63 Metal-Framed Skylights**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 63 13 00-0167		25 LB Uplift Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylights <small>(08 63 13 00-0162)</small>		
08 63 13 00-0168	EA	52-1/4" x 100-1/4" Inside Frame Dimensions, 25 LB Uplift Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight	4,754.83	201.70
08 63 13 00-0169	EA	63-5/8" x 75-5/8" Inside Frame Dimensions, 25 LB Uplift Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight	4,504.27	191.62
08 63 13 00-0170	EA	63-1/4" x 99-5/8" Inside Frame Dimensions, 25 LB Uplift Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight	4,995.82	201.70
08 63 13 00-0171		30 LB Uplift Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylights <small>(08 63 13 00-0162)</small>		
08 63 13 00-0172	EA	52-1/4" x 100-1/4" Inside Frame Dimensions, 30 LB Uplift Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight	5,059.37	201.70
08 63 13 00-0173	EA	63-5/8" x 75-5/8" Inside Frame Dimensions, 30 LB Uplift Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight	4,803.51	191.62
08 63 13 00-0174	EA	63-1/4" x 99-5/8" Inside Frame Dimensions, 30 LB Uplift Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight	5,295.06	201.70
08 63 13 00-0175		Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylights <small>(08 63 13 00-0161)</small>		
08 63 13 00-0176		10 LB Uplift Rated, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylights <small>(08 63 13 00-0175)</small>		
08 63 13 00-0177	EA	52-1/4" x 100-1/4" Inside Frame Dimensions, 10 LB Uplift Rated, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight	3,714.09	201.70
08 63 13 00-0178	EA	63-5/8" x 75-5/8" Inside Frame Dimensions, 10 LB Uplift Rated, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight	3,452.93	191.62
08 63 13 00-0179	EA	63-1/4" x 99-5/8" Inside Frame Dimensions, 10 LB Uplift Rated, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight	3,899.46	201.70
08 63 13 00-0180		25 LB Uplift Rated, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylights <small>(08 63 13 00-0175)</small>		
08 63 13 00-0181	EA	52-1/4" x 100-1/4" Inside Frame Dimensions, 25 LB Uplift Rated, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight	4,776.02	201.70
08 63 13 00-0182	EA	63-5/8" x 75-5/8" Inside Frame Dimensions, 25 LB Uplift Rated, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight	4,520.16	191.62
08 63 13 00-0183	EA	63-1/4" x 99-5/8" Inside Frame Dimensions, 25 LB Uplift Rated, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight	5,022.30	201.70
08 63 13 00-0184		30 LB Uplift Rated, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylights <small>(08 63 13 00-0175)</small>		
08 63 13 00-0185	EA	52-1/4" x 100-1/4" Inside Frame Dimensions, 30 LB Uplift Rated, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight	5,075.26	201.70
08 63 13 00-0186	EA	63-5/8" x 75-5/8" Inside Frame Dimensions, 30 LB Uplift Rated, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight	4,819.40	191.62
08 63 13 00-0187	EA	63-1/4" x 99-5/8" Inside Frame Dimensions, 30 LB Uplift Rated, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight	5,321.54	201.70
08 66		Wood-Framed Skylights <small>(08 60)</small>		
08 66 00 00-0001		Wood-Framed Skylights (Andersen 400 Series) <small>(08 66)</small>		
08 66 00 00-0002	EA	16-1/2" x 38", Domed, Wood-Framed Skylight (Andersen 400 Series).....	652.96	158.79
		<i>For Tempered Laminated Low-E Insulated Glass, Add</i>	83.85	
		<i>For Aluminum Shingle Flashing, Add</i>	67.08	
08 66 00 00-0003	EA	16-1/2" x 46", Domed, Wood-Framed Skylight (Andersen 400 Series).....	666.65	158.79
		<i>For Tempered Laminated Low-E Insulated Glass, Add</i>	87.27	
		<i>For Aluminum Shingle Flashing, Add</i>	69.81	
08 66 00 00-0004	EA	24-1/2" x 27", Domed, Wood-Framed Skylight (Andersen 400 Series).....	634.14	158.79
		<i>For Tempered Laminated Low-E Insulated Glass, Add</i>	79.14	
		<i>For Aluminum Shingle Flashing, Add</i>	63.31	
08 66 00 00-0005	EA	24-1/2" x 38", Domed, Wood-Framed Skylight (Andersen 400 Series).....	676.92	158.79
		<i>For Tempered Laminated Low-E Insulated Glass, Add</i>	89.84	
		<i>For Aluminum Shingle Flashing, Add</i>	71.87	
08 66 00 00-0006	EA	24-1/2" x 46", Domed, Wood-Framed Skylight (Andersen 400 Series).....	712.86	158.79
		<i>For Tempered Laminated Low-E Insulated Glass, Add</i>	98.82	
		<i>For Aluminum Shingle Flashing, Add</i>	79.06	
08 66 00 00-0007	EA	24-1/2" x 57", Domed, Wood-Framed Skylight (Andersen 400 Series).....	771.03	158.79
		<i>For Tempered Laminated Low-E Insulated Glass, Add</i>	113.36	
		<i>For Aluminum Shingle Flashing, Add</i>	90.69	
08 66 00 00-0008	EA	24-1/2" x 72", Domed, Wood-Framed Skylight (Andersen 400 Series).....	844.61	158.79
		<i>For Tempered Laminated Low-E Insulated Glass, Add</i>	131.76	
		<i>For Aluminum Shingle Flashing, Add</i>	105.41	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 66 00 00-0009	EA			27" x 24-1/2", Domed, Wood-Framed Skylight (Andersen 400 Series)..... <i>For Tempered Laminated Low-E Insulated Glass, Add</i> <i>For Aluminum Shingle Flashing, Add</i>	634.14 79.14 63.31	158.79
08 66 00 00-0010	EA			28" x 38", Domed, Wood-Framed Skylight (Andersen 400 Series)..... <i>For Tempered Laminated Low-E Insulated Glass, Add</i> <i>For Aluminum Shingle Flashing, Add</i>	721.41 100.96 80.77	158.79
08 66 00 00-0011	EA			28" x 46", Domed, Wood-Framed Skylight (Andersen 400 Series)..... <i>For Tempered Laminated Low-E Insulated Glass, Add</i> <i>For Aluminum Shingle Flashing, Add</i>	771.03 113.36 90.69	158.79
08 66 00 00-0012	EA			28" x 57", Domed, Wood-Framed Skylight (Andersen 400 Series)..... <i>For Tempered Laminated Low-E Insulated Glass, Add</i> <i>For Aluminum Shingle Flashing, Add</i>	827.50 127.48 101.98	158.79
08 66 00 00-0013	EA			28" x 72", Domed, Wood-Framed Skylight (Andersen 400 Series)..... <i>For Tempered Laminated Low-E Insulated Glass, Add</i> <i>For Aluminum Shingle Flashing, Add</i>	902.79 146.30 117.04	158.79
08 66 00 00-0014	EA			38" x 16-1/2", Domed, Wood-Framed Skylight (Andersen 400 Series)..... <i>For Tempered Laminated Low-E Insulated Glass, Add</i> <i>For Aluminum Shingle Flashing, Add</i>	652.96 83.85 67.08	158.79
08 66 00 00-0015	EA			38" x 24-1/2", Domed, Wood-Framed Skylight (Andersen 400 Series)..... <i>For Tempered Laminated Low-E Insulated Glass, Add</i> <i>For Aluminum Shingle Flashing, Add</i>	676.92 89.84 71.87	158.79
08 66 00 00-0016	EA			38" x 28", Domed, Wood-Framed Skylight (Andersen 400 Series)..... <i>For Tempered Laminated Low-E Insulated Glass, Add</i> <i>For Aluminum Shingle Flashing, Add</i>	721.41 100.96 80.77	158.79
08 66 00 00-0017	EA			44" x 46", Domed, Wood-Framed Skylight (Andersen 400 Series)..... <i>For Tempered Laminated Low-E Insulated Glass, Add</i> <i>For Aluminum Shingle Flashing, Add</i>	878.84 140.32 112.25	158.79
08 66 00 00-0018	EA			46" x 16-1/2", Domed, Wood-Framed Skylight (Andersen 400 Series)..... <i>For Tempered Laminated Low-E Insulated Glass, Add</i> <i>For Aluminum Shingle Flashing, Add</i>	666.65 87.27 69.81	158.79
08 66 00 00-0019	EA			46" x 24-1/2", Domed, Wood-Framed Skylight (Andersen 400 Series)..... <i>For Tempered Laminated Low-E Insulated Glass, Add</i> <i>For Aluminum Shingle Flashing, Add</i>	712.86 98.82 79.06	158.79
08 66 00 00-0020	EA			46" x 28", Domed, Wood-Framed Skylight (Andersen 400 Series)..... <i>For Tempered Laminated Low-E Insulated Glass, Add</i> <i>For Aluminum Shingle Flashing, Add</i>	771.03 113.36 90.69	158.79
08 66 00 00-0021	EA			46" x 44", Domed, Wood-Framed Skylight (Andersen 400 Series)..... <i>For Tempered Laminated Low-E Insulated Glass, Add</i> <i>For Aluminum Shingle Flashing, Add</i>	878.84 140.32 112.25	158.79
08 66 00 00-0022	EA			57" x 24-1/2", Domed, Wood-Framed Skylight (Andersen 400 Series)..... <i>For Tempered Laminated Low-E Insulated Glass, Add</i> <i>For Aluminum Shingle Flashing, Add</i>	771.03 113.36 90.69	158.79
08 66 00 00-0023	EA			57" x 28", Domed, Wood-Framed Skylight (Andersen 400 Series)..... <i>For Tempered Laminated Low-E Insulated Glass, Add</i> <i>For Aluminum Shingle Flashing, Add</i>	827.50 127.48 101.98	158.79
08 66 00 00-0024	EA			72" x 24-1/2", Domed, Wood-Framed Skylight (Andersen 400 Series)..... <i>For Tempered Laminated Low-E Insulated Glass, Add</i> <i>For Aluminum Shingle Flashing, Add</i>	844.61 131.76 105.41	158.79
08 66 00 00-0025	EA			72" x 28", Domed, Wood-Framed Skylight (Andersen 400 Series)..... <i>For Tempered Laminated Low-E Insulated Glass, Add</i> <i>For Aluminum Shingle Flashing, Add</i>	902.79 146.30 117.04	158.79

08 90 Louvers and Vents (08)

08 91 Louvers (08 90)

08 91 13 Motorized Wall Louvers (08 91)

08 91 13 00-0001				Motorized Wall Louver Actuator <small>(08 91 13)</small> See CSI section 08 91 16 00-0001 for adjustable intake wall louvers.		
08 91 13 00-0002	EA			115 Volt Actuator For Adjustable Intake Louver	1,973.82	130.54
08 91 13 00-0003	EA			230 Volt Actuator For Adjustable Intake Louver	2,991.51	130.54
08 91 13 00-0004	EA			24 Volt Actuator For Adjustable Intake Louver	2,118.88	130.54
08 91 13 00-0005	EA			115 Volt Hazardous Location Actuator For Adjustable Intake Louver.....	8,092.40	130.54

08 91 16 Operable Wall Louvers (08 91)

08 91 16 00-0001				Adjustable Intake Wall Louvers <small>(08 91 16)</small> See CSI section 08 91 16 00-0137 for adjustable intake wall louver operators.		
08 91 16 00-0002	EA			12" Wide x 12" High Adjustable Intake Louver, Galvanized Aluminum	534.90	34.56
				Note: Includes bird screen. Excludes actuator.		
				<i>For Flange Frame, Add</i>	46.58	
				<i>For Clear Lacquer Finish, Add</i>	93.16	
				<i>For Baked Enamel Standard Colors, Add</i>	139.73	
				<i>For Anodized Finish, Add</i>	186.31	
				<i>For Kynar® Standard Colors Finish, Add</i>	256.18	
08 91 16 00-0003	EA			12" Wide x 18" High Adjustable Intake Louver, Galvanized Aluminum	668.12	42.24
				Note: Includes bird screen. Excludes actuator.		
				<i>For Flange Frame, Add</i>	58.36	
				<i>For Clear Lacquer Finish, Add</i>	116.73	
				<i>For Baked Enamel Standard Colors, Add</i>	175.09	
				<i>For Anodized Finish, Add</i>	233.46	
				<i>For Kynar® Standard Colors Finish, Add</i>	321.00	

08 Openings
08 90 Louvers and Vents
08 91 Louvers



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 16 00-0004	EA	12" Wide x 24" High Adjustable Intake Louver, Galvanized Aluminum.....	790.01	49.92
		Note: Includes bird screen. Excludes actuator.		
		<i>For Flange Frame, Add</i>	69.02	
		<i>For Clear Lacquer Finish, Add</i>	138.03	
		<i>For Baked Enamel Standard Colors, Add</i>	207.05	
		<i>For Anodized Finish, Add</i>	276.07	
		<i>For Kynar® Standard Colors Finish, Add</i>	379.59	
08 91 16 00-0005	EA	12" Wide x 30" High Adjustable Intake Louver, Galvanized Aluminum.....	924.36	57.60
		Note: Includes bird screen. Excludes actuator.		
		<i>For Flange Frame, Add</i>	80.92	
		<i>For Clear Lacquer Finish, Add</i>	161.83	
		<i>For Baked Enamel Standard Colors, Add</i>	242.75	
		<i>For Anodized Finish, Add</i>	323.66	
		<i>For Kynar® Standard Colors Finish, Add</i>	445.04	
08 91 16 00-0006	EA	12" Wide x 36" High Adjustable Intake Louver, Galvanized Aluminum.....	1,041.70	65.28
		Note: Includes bird screen. Excludes actuator.		
		<i>For Flange Frame, Add</i>	91.12	
		<i>For Clear Lacquer Finish, Add</i>	182.23	
		<i>For Baked Enamel Standard Colors, Add</i>	273.35	
		<i>For Anodized Finish, Add</i>	364.46	
		<i>For Kynar® Standard Colors Finish, Add</i>	501.14	
08 91 16 00-0007	EA	12" Wide x 42" High Adjustable Intake Louver, Galvanized Aluminum.....	1,228.18	72.96
		Note: Includes bird screen. Excludes actuator.		
		<i>For Flange Frame, Add</i>	108.23	
		<i>For Clear Lacquer Finish, Add</i>	216.46	
		<i>For Baked Enamel Standard Colors, Add</i>	324.68	
		<i>For Anodized Finish, Add</i>	432.91	
		<i>For Kynar® Standard Colors Finish, Add</i>	595.25	
08 91 16 00-0008	EA	12" Wide x 48" High Adjustable Intake Louver, Galvanized Aluminum.....	1,398.80	80.64
		Note: Includes bird screen. Excludes actuator.		
		<i>For Flange Frame, Add</i>	123.75	
		<i>For Clear Lacquer Finish, Add</i>	247.51	
		<i>For Baked Enamel Standard Colors, Add</i>	371.26	
		<i>For Anodized Finish, Add</i>	495.02	
		<i>For Kynar® Standard Colors Finish, Add</i>	680.65	
08 91 16 00-0009	EA	12" Wide x 54" High Adjustable Intake Louver, Galvanized Aluminum.....	1,554.44	92.16
		Note: Includes bird screen. Excludes actuator.		
		<i>For Flange Frame, Add</i>	137.01	
		<i>For Clear Lacquer Finish, Add</i>	274.03	
		<i>For Baked Enamel Standard Colors, Add</i>	411.04	
		<i>For Anodized Finish, Add</i>	548.06	
		<i>For Kynar® Standard Colors Finish, Add</i>	753.58	
08 91 16 00-0010	EA	12" Wide x 60" High Adjustable Intake Louver, Galvanized Aluminum.....	1,659.32	99.84
		Note: Includes bird screen. Excludes actuator.		
		<i>For Flange Frame, Add</i>	145.97	
		<i>For Clear Lacquer Finish, Add</i>	291.93	
		<i>For Baked Enamel Standard Colors, Add</i>	437.90	
		<i>For Anodized Finish, Add</i>	583.86	
		<i>For Kynar® Standard Colors Finish, Add</i>	802.81	
08 91 16 00-0011	EA	12" Wide x 66" High Adjustable Intake Louver, Galvanized Aluminum.....	1,790.28	107.52
		Note: Includes bird screen. Excludes actuator.		
		<i>For Flange Frame, Add</i>	157.53	
		<i>For Clear Lacquer Finish, Add</i>	315.05	
		<i>For Baked Enamel Standard Colors, Add</i>	472.58	
		<i>For Anodized Finish, Add</i>	630.10	
		<i>For Kynar® Standard Colors Finish, Add</i>	866.39	
08 91 16 00-0012	EA	12" Wide x 72" High Adjustable Intake Louver, Galvanized Aluminum.....	1,905.37	115.20
		Note: Includes bird screen. Excludes actuator.		
		<i>For Flange Frame, Add</i>	167.50	
		<i>For Clear Lacquer Finish, Add</i>	335.00	
		<i>For Baked Enamel Standard Colors, Add</i>	502.50	
		<i>For Anodized Finish, Add</i>	670.00	
		<i>For Kynar® Standard Colors Finish, Add</i>	921.24	
08 91 16 00-0013	EA	12" Wide x 78" High Adjustable Intake Louver, Galvanized Aluminum.....	2,052.19	122.86
		Note: Includes bird screen. Excludes actuator.		
		<i>For Flange Frame, Add</i>	180.65	
		<i>For Clear Lacquer Finish, Add</i>	361.29	
		<i>For Baked Enamel Standard Colors, Add</i>	541.94	
		<i>For Anodized Finish, Add</i>	722.58	
		<i>For Kynar® Standard Colors Finish, Add</i>	993.55	
08 91 16 00-0014	EA	12" Wide x 84" High Adjustable Intake Louver, Galvanized Aluminum.....	2,193.34	130.54
		Note: Includes bird screen. Excludes actuator.		
		<i>For Flange Frame, Add</i>	193.22	
		<i>For Clear Lacquer Finish, Add</i>	386.45	
		<i>For Baked Enamel Standard Colors, Add</i>	579.67	
		<i>For Anodized Finish, Add</i>	772.90	
		<i>For Kynar® Standard Colors Finish, Add</i>	1,062.73	
08 91 16 00-0015	EA	12" Wide x 90" High Adjustable Intake Louver, Galvanized Aluminum.....	2,369.38	142.06
		Note: Includes bird screen. Excludes actuator.		
		<i>For Flange Frame, Add</i>	208.52	
		<i>For Clear Lacquer Finish, Add</i>	417.05	
		<i>For Baked Enamel Standard Colors, Add</i>	625.57	
		<i>For Anodized Finish, Add</i>	834.10	
		<i>For Kynar® Standard Colors Finish, Add</i>	1,146.88	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 16 00-0016	EA			12" Wide x 96" High Adjustable Intake Louver, Galvanized Aluminum.....	2,500.08	153.58
				Note: Includes bird screen. Excludes actuator.		
				For Flange Frame, Add	219.29	
				For Clear Lacquer Finish, Add	438.58	
				For Baked Enamel Standard Colors, Add	657.87	
				For Anodized Finish, Add	877.16	
				For Kynar® Standard Colors Finish, Add	1,206.10	
08 91 16 00-0017	EA			18" Wide x 12" High Adjustable Intake Louver, Galvanized Aluminum.....	601.26	42.24
				Note: Includes bird screen. Excludes actuator.		
				For Flange Frame, Add	51.68	
				For Clear Lacquer Finish, Add	103.36	
				For Baked Enamel Standard Colors, Add	155.03	
				For Anodized Finish, Add	206.71	
				For Kynar® Standard Colors Finish, Add	284.23	
08 91 16 00-0018	EA			18" Wide x 18" High Adjustable Intake Louver, Galvanized Aluminum.....	759.16	53.76
				Note: Includes bird screen. Excludes actuator.		
				For Flange Frame, Add	65.16	
				For Clear Lacquer Finish, Add	130.33	
				For Baked Enamel Standard Colors, Add	195.49	
				For Anodized Finish, Add	260.66	
				For Kynar® Standard Colors Finish, Add	358.40	
08 91 16 00-0019	EA			18" Wide x 24" High Adjustable Intake Louver, Galvanized Aluminum.....	890.09	61.44
				Note: Includes bird screen. Excludes actuator.		
				For Flange Frame, Add	76.72	
				For Clear Lacquer Finish, Add	153.45	
				For Baked Enamel Standard Colors, Add	230.17	
				For Anodized Finish, Add	306.89	
				For Kynar® Standard Colors Finish, Add	421.98	
08 91 16 00-0020	EA			18" Wide x 30" High Adjustable Intake Louver, Galvanized Aluminum.....	1,107.80	76.80
				Note: Includes bird screen. Excludes actuator.		
				For Flange Frame, Add	95.42	
				For Clear Lacquer Finish, Add	190.84	
				For Baked Enamel Standard Colors, Add	286.27	
				For Anodized Finish, Add	381.69	
				For Kynar® Standard Colors Finish, Add	524.82	
08 91 16 00-0021	EA			18" Wide x 36" High Adjustable Intake Louver, Galvanized Aluminum.....	1,259.16	84.48
				Note: Includes bird screen. Excludes actuator.		
				For Flange Frame, Add	109.02	
				For Clear Lacquer Finish, Add	218.04	
				For Baked Enamel Standard Colors, Add	327.07	
				For Anodized Finish, Add	436.09	
				For Kynar® Standard Colors Finish, Add	599.62	
08 91 16 00-0022	EA			18" Wide x 42" High Adjustable Intake Louver, Galvanized Aluminum.....	1,410.51	92.16
				Note: Includes bird screen. Excludes actuator.		
				For Flange Frame, Add	122.62	
				For Clear Lacquer Finish, Add	245.24	
				For Baked Enamel Standard Colors, Add	367.86	
				For Anodized Finish, Add	490.48	
				For Kynar® Standard Colors Finish, Add	674.42	
08 91 16 00-0023	EA			18" Wide x 48" High Adjustable Intake Louver, Galvanized Aluminum.....	1,591.33	99.84
				Note: Includes bird screen. Excludes actuator.		
				For Flange Frame, Add	139.17	
				For Clear Lacquer Finish, Add	278.33	
				For Baked Enamel Standard Colors, Add	417.50	
				For Anodized Finish, Add	556.67	
				For Kynar® Standard Colors Finish, Add	765.42	
08 91 16 00-0024	EA			18" Wide x 54" High Adjustable Intake Louver, Galvanized Aluminum.....	1,765.09	111.36
				Note: Includes bird screen. Excludes actuator.		
				For Flange Frame, Add	154.24	
				For Clear Lacquer Finish, Add	308.48	
				For Baked Enamel Standard Colors, Add	462.72	
				For Anodized Finish, Add	616.96	
				For Kynar® Standard Colors Finish, Add	848.31	
08 91 16 00-0025	EA			18" Wide x 60" High Adjustable Intake Louver, Galvanized Aluminum.....	1,904.86	122.86
				Note: Includes bird screen. Excludes actuator.		
				For Flange Frame, Add	165.91	
				For Clear Lacquer Finish, Add	331.82	
				For Baked Enamel Standard Colors, Add	497.74	
				For Anodized Finish, Add	663.65	
				For Kynar® Standard Colors Finish, Add	912.52	
08 91 16 00-0026	EA			18" Wide x 66" High Adjustable Intake Louver, Galvanized Aluminum.....	2,038.08	130.54
				Note: Includes bird screen. Excludes actuator.		
				For Flange Frame, Add	177.70	
				For Clear Lacquer Finish, Add	355.40	
				For Baked Enamel Standard Colors, Add	533.09	
				For Anodized Finish, Add	710.79	
				For Kynar® Standard Colors Finish, Add	977.34	
08 91 16 00-0027	EA			18" Wide x 72" High Adjustable Intake Louver, Galvanized Aluminum.....	2,163.37	138.22
				Note: Includes bird screen. Excludes actuator.		
				For Flange Frame, Add	188.69	
				For Clear Lacquer Finish, Add	377.38	
				For Baked Enamel Standard Colors, Add	566.07	
				For Anodized Finish, Add	754.76	
				For Kynar® Standard Colors Finish, Add	1,037.80	

08	Openings
08 90	Louvers and Vents
08 91	Louvers



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 16 00-0028 EA 18" Wide x 78" High Adjustable Intake Louver, Galvanized Aluminum.....	2,324.92	145.90
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	203.31	
For Clear Lacquer Finish, Add	406.62	
For Baked Enamel Standard Colors, Add	609.93	
For Anodized Finish, Add	813.24	
For Kynar® Standard Colors Finish, Add	1,118.21	
08 91 16 00-0029 EA 18" Wide x 84" High Adjustable Intake Louver, Galvanized Aluminum.....	2,480.81	153.58
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	217.36	
For Clear Lacquer Finish, Add	434.73	
For Baked Enamel Standard Colors, Add	652.09	
For Anodized Finish, Add	869.45	
For Kynar® Standard Colors Finish, Add	1,195.50	
08 91 16 00-0030 EA 18" Wide x 90" High Adjustable Intake Louver, Galvanized Aluminum.....	2,671.58	165.10
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	234.14	
For Clear Lacquer Finish, Add	468.27	
For Baked Enamel Standard Colors, Add	702.41	
For Anodized Finish, Add	936.54	
For Kynar® Standard Colors Finish, Add	1,287.75	
08 91 16 00-0031 EA 18" Wide x 96" High Adjustable Intake Louver, Galvanized Aluminum.....	2,816.99	176.62
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	246.38	
For Clear Lacquer Finish, Add	492.75	
For Baked Enamel Standard Colors, Add	739.13	
For Anodized Finish, Add	985.50	
For Kynar® Standard Colors Finish, Add	1,355.06	
08 91 16 00-0032 EA 24" Wide x 12" High Adjustable Intake Louver, Galvanized Aluminum.....	673.28	49.92
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	57.34	
For Clear Lacquer Finish, Add	114.69	
For Baked Enamel Standard Colors, Add	172.03	
For Anodized Finish, Add	229.38	
For Kynar® Standard Colors Finish, Add	315.39	
08 91 16 00-0033 EA 24" Wide x 18" High Adjustable Intake Louver, Galvanized Aluminum.....	853.83	61.44
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	73.10	
For Clear Lacquer Finish, Add	146.19	
For Baked Enamel Standard Colors, Add	219.29	
For Anodized Finish, Add	292.39	
For Kynar® Standard Colors Finish, Add	402.03	
08 91 16 00-0034 EA 24" Wide x 24" High Adjustable Intake Louver, Galvanized Aluminum.....	1,057.06	72.96
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	91.12	
For Clear Lacquer Finish, Add	182.23	
For Baked Enamel Standard Colors, Add	273.35	
For Anodized Finish, Add	364.46	
For Kynar® Standard Colors Finish, Add	501.14	
08 91 16 00-0035 EA 24" Wide x 30" High Adjustable Intake Louver, Galvanized Aluminum.....	1,247.57	88.32
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	107.10	
For Clear Lacquer Finish, Add	214.19	
For Baked Enamel Standard Colors, Add	321.29	
For Anodized Finish, Add	428.38	
For Kynar® Standard Colors Finish, Add	589.02	
08 91 16 00-0036 EA 24" Wide x 36" High Adjustable Intake Louver, Galvanized Aluminum.....	1,413.66	96.00
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	122.17	
For Clear Lacquer Finish, Add	244.34	
For Baked Enamel Standard Colors, Add	366.50	
For Anodized Finish, Add	488.67	
For Kynar® Standard Colors Finish, Add	671.92	
08 91 16 00-0037 EA 24" Wide x 42" High Adjustable Intake Louver, Galvanized Aluminum.....	1,588.81	103.68
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	138.15	
For Clear Lacquer Finish, Add	276.29	
For Baked Enamel Standard Colors, Add	414.44	
For Anodized Finish, Add	552.59	
For Kynar® Standard Colors Finish, Add	759.81	
08 91 16 00-0038 EA 24" Wide x 48" High Adjustable Intake Louver, Galvanized Aluminum.....	1,805.64	115.20
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	157.53	
For Clear Lacquer Finish, Add	315.05	
For Baked Enamel Standard Colors, Add	472.58	
For Anodized Finish, Add	630.10	
For Kynar® Standard Colors Finish, Add	866.39	
08 91 16 00-0039 EA 24" Wide x 54" High Adjustable Intake Louver, Galvanized Aluminum.....	1,990.49	130.54
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	172.94	
For Clear Lacquer Finish, Add	345.88	
For Baked Enamel Standard Colors, Add	518.82	
For Anodized Finish, Add	691.76	
For Kynar® Standard Colors Finish, Add	951.16	



Openings	08
Louvers and Vents	08 90
Louvers	08 91

08

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 16 00-0040	EA		24" Wide x 60" High Adjustable Intake Louver, Galvanized Aluminum.....	2,132.77	138.22
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	185.63	
			For Clear Lacquer Finish, Add	371.26	
			For Baked Enamel Standard Colors, Add	556.89	
			For Anodized Finish, Add	742.52	
			For Kynar® Standard Colors Finish, Add	1,020.97	
08 91 16 00-0041	EA		24" Wide x 66" High Adjustable Intake Louver, Galvanized Aluminum.....	2,290.42	153.58
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	198.32	
			For Clear Lacquer Finish, Add	396.65	
			For Baked Enamel Standard Colors, Add	594.97	
			For Anodized Finish, Add	793.30	
			For Kynar® Standard Colors Finish, Add	1,090.78	
08 91 16 00-0042	EA		24" Wide x 72" High Adjustable Intake Louver, Galvanized Aluminum.....	2,434.97	161.26
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	211.24	
			For Clear Lacquer Finish, Add	422.49	
			For Baked Enamel Standard Colors, Add	633.73	
			For Anodized Finish, Add	844.97	
			For Kynar® Standard Colors Finish, Add	1,161.84	
08 91 16 00-0043	EA		24" Wide x 78" High Adjustable Intake Louver, Galvanized Aluminum.....	2,630.53	168.94
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	229.26	
			For Clear Lacquer Finish, Add	458.53	
			For Baked Enamel Standard Colors, Add	687.79	
			For Anodized Finish, Add	917.05	
			For Kynar® Standard Colors Finish, Add	1,260.95	
08 91 16 00-0044	EA		24" Wide x 84" High Adjustable Intake Louver, Galvanized Aluminum.....	2,796.59	176.62
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	244.34	
			For Clear Lacquer Finish, Add	488.67	
			For Baked Enamel Standard Colors, Add	733.01	
			For Anodized Finish, Add	977.34	
			For Kynar® Standard Colors Finish, Add	1,343.84	
08 91 16 00-0045	EA		24" Wide x 90" High Adjustable Intake Louver, Galvanized Aluminum.....	3,006.62	188.14
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	263.03	
			For Clear Lacquer Finish, Add	526.07	
			For Baked Enamel Standard Colors, Add	789.10	
			For Anodized Finish, Add	1,052.14	
			For Kynar® Standard Colors Finish, Add	1,446.69	
08 91 16 00-0046	EA		24" Wide x 96" High Adjustable Intake Louver, Galvanized Aluminum.....	3,162.26	199.66
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	276.29	
			For Clear Lacquer Finish, Add	552.59	
			For Baked Enamel Standard Colors, Add	828.88	
			For Anodized Finish, Add	1,105.18	
			For Kynar® Standard Colors Finish, Add	1,519.62	
08 91 16 00-0047	EA		30" Wide x 12" High Adjustable Intake Louver, Galvanized Aluminum.....	750.97	57.60
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	63.58	
			For Clear Lacquer Finish, Add	127.15	
			For Baked Enamel Standard Colors, Add	190.73	
			For Anodized Finish, Add	254.31	
			For Kynar® Standard Colors Finish, Add	349.67	
08 91 16 00-0048	EA		30" Wide x 18" High Adjustable Intake Louver, Galvanized Aluminum.....	1,000.14	76.80
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	84.66	
			For Clear Lacquer Finish, Add	169.31	
			For Baked Enamel Standard Colors, Add	253.97	
			For Anodized Finish, Add	338.62	
			For Kynar® Standard Colors Finish, Add	465.61	
08 91 16 00-0049	EA		30" Wide x 24" High Adjustable Intake Louver, Galvanized Aluminum.....	1,186.37	88.32
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	100.98	
			For Clear Lacquer Finish, Add	201.95	
			For Baked Enamel Standard Colors, Add	302.93	
			For Anodized Finish, Add	403.90	
			For Kynar® Standard Colors Finish, Add	555.36	
08 91 16 00-0050	EA		30" Wide x 30" High Adjustable Intake Louver, Galvanized Aluminum.....	1,389.60	99.84
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	118.99	
			For Clear Lacquer Finish, Add	237.99	
			For Baked Enamel Standard Colors, Add	356.98	
			For Anodized Finish, Add	475.98	
			For Kynar® Standard Colors Finish, Add	654.47	
08 91 16 00-0051	EA		30" Wide x 36" High Adjustable Intake Louver, Galvanized Aluminum.....	1,570.42	107.52
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	135.54	
			For Clear Lacquer Finish, Add	271.08	
			For Baked Enamel Standard Colors, Add	406.62	
			For Anodized Finish, Add	542.16	
			For Kynar® Standard Colors Finish, Add	745.47	

08	Openings
08 90	Louvers and Vents
08 91	Louvers



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 16 00-0052	EA	30" Wide x 42" High Adjustable Intake Louver, Galvanized Aluminum.....	1,758.92	119.02
		Note: Includes bird screen. Excludes actuator.		
		<i>For Flange Frame, Add</i>	152.09	
		<i>For Clear Lacquer Finish, Add</i>	304.17	
		<i>For Baked Enamel Standard Colors, Add</i>	456.26	
		<i>For Anodized Finish, Add</i>	608.34	
		<i>For Kynar® Standard Colors Finish, Add</i>	836.47	
08 91 16 00-0053	EA	30" Wide x 48" High Adjustable Intake Louver, Galvanized Aluminum.....	1,982.81	126.70
		Note: Includes bird screen. Excludes actuator.		
		<i>For Flange Frame, Add</i>	172.94	
		<i>For Clear Lacquer Finish, Add</i>	345.88	
		<i>For Baked Enamel Standard Colors, Add</i>	518.82	
		<i>For Anodized Finish, Add</i>	691.76	
		<i>For Kynar® Standard Colors Finish, Add</i>	951.16	
08 91 16 00-0054	EA	30" Wide x 54" High Adjustable Intake Louver, Galvanized Aluminum.....	2,175.84	138.22
		Note: Includes bird screen. Excludes actuator.		
		<i>For Flange Frame, Add</i>	189.94	
		<i>For Clear Lacquer Finish, Add</i>	379.88	
		<i>For Baked Enamel Standard Colors, Add</i>	569.81	
		<i>For Anodized Finish, Add</i>	759.75	
		<i>For Kynar® Standard Colors Finish, Add</i>	1,044.66	
08 91 16 00-0055	EA	30" Wide x 60" High Adjustable Intake Louver, Galvanized Aluminum.....	2,333.99	145.90
		Note: Includes bird screen. Excludes actuator.		
		<i>For Flange Frame, Add</i>	204.22	
		<i>For Clear Lacquer Finish, Add</i>	408.43	
		<i>For Baked Enamel Standard Colors, Add</i>	612.65	
		<i>For Anodized Finish, Add</i>	816.87	
		<i>For Kynar® Standard Colors Finish, Add</i>	1,123.19	
08 91 16 00-0056	EA	30" Wide x 66" High Adjustable Intake Louver, Galvanized Aluminum.....	2,509.77	161.26
		Note: Includes bird screen. Excludes actuator.		
		<i>For Flange Frame, Add</i>	218.72	
		<i>For Clear Lacquer Finish, Add</i>	437.45	
		<i>For Baked Enamel Standard Colors, Add</i>	656.17	
		<i>For Anodized Finish, Add</i>	874.89	
		<i>For Kynar® Standard Colors Finish, Add</i>	1,202.98	
08 91 16 00-0057	EA	30" Wide x 72" High Adjustable Intake Louver, Galvanized Aluminum.....	2,676.72	172.78
		Note: Includes bird screen. Excludes actuator.		
		<i>For Flange Frame, Add</i>	233.12	
		<i>For Clear Lacquer Finish, Add</i>	466.23	
		<i>For Baked Enamel Standard Colors, Add</i>	699.35	
		<i>For Anodized Finish, Add</i>	932.46	
		<i>For Kynar® Standard Colors Finish, Add</i>	1,282.14	
08 91 16 00-0058	EA	30" Wide x 78" High Adjustable Intake Louver, Galvanized Aluminum.....	2,884.73	180.46
		Note: Includes bird screen. Excludes actuator.		
		<i>For Flange Frame, Add</i>	252.38	
		<i>For Clear Lacquer Finish, Add</i>	504.76	
		<i>For Baked Enamel Standard Colors, Add</i>	757.14	
		<i>For Anodized Finish, Add</i>	1,009.52	
		<i>For Kynar® Standard Colors Finish, Add</i>	1,388.10	
08 91 16 00-0059	EA	30" Wide x 84" High Adjustable Intake Louver, Galvanized Aluminum.....	3,065.55	188.14
		Note: Includes bird screen. Excludes actuator.		
		<i>For Flange Frame, Add</i>	268.93	
		<i>For Clear Lacquer Finish, Add</i>	537.85	
		<i>For Baked Enamel Standard Colors, Add</i>	806.78	
		<i>For Anodized Finish, Add</i>	1,075.71	
		<i>For Kynar® Standard Colors Finish, Add</i>	1,479.10	
08 91 16 00-0060	EA	30" Wide x 90" High Adjustable Intake Louver, Galvanized Aluminum.....	3,285.78	199.66
		Note: Includes bird screen. Excludes actuator.		
		<i>For Flange Frame, Add</i>	288.65	
		<i>For Clear Lacquer Finish, Add</i>	577.29	
		<i>For Baked Enamel Standard Colors, Add</i>	865.94	
		<i>For Anodized Finish, Add</i>	1,154.58	
		<i>For Kynar® Standard Colors Finish, Add</i>	1,587.55	
08 91 16 00-0061	EA	30" Wide x 96" High Adjustable Intake Louver, Galvanized Aluminum.....	3,461.82	211.18
		Note: Includes bird screen. Excludes actuator.		
		<i>For Flange Frame, Add</i>	303.95	
		<i>For Clear Lacquer Finish, Add</i>	607.89	
		<i>For Baked Enamel Standard Colors, Add</i>	911.84	
		<i>For Anodized Finish, Add</i>	1,215.78	
		<i>For Kynar® Standard Colors Finish, Add</i>	1,671.70	
08 91 16 00-0062	EA	36" Wide x 12" High Adjustable Intake Louver, Galvanized Aluminum.....	822.97	65.28
		Note: Includes bird screen. Excludes actuator.		
		<i>For Flange Frame, Add</i>	69.24	
		<i>For Clear Lacquer Finish, Add</i>	138.49	
		<i>For Baked Enamel Standard Colors, Add</i>	207.73	
		<i>For Anodized Finish, Add</i>	276.97	
		<i>For Kynar® Standard Colors Finish, Add</i>	380.84	
08 91 16 00-0063	EA	36" Wide x 18" High Adjustable Intake Louver, Galvanized Aluminum.....	1,112.96	84.48
		Note: Includes bird screen. Excludes actuator.		
		<i>For Flange Frame, Add</i>	94.40	
		<i>For Clear Lacquer Finish, Add</i>	188.80	
		<i>For Baked Enamel Standard Colors, Add</i>	283.21	
		<i>For Anodized Finish, Add</i>	377.61	
		<i>For Kynar® Standard Colors Finish, Add</i>	519.21	



Openings	08
Louvers and Vents	08 90
Louvers	08 91

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 16 00-0064	EA		36" Wide x 24" High Adjustable Intake Louver, Galvanized Aluminum Note: Includes bird screen. Excludes actuator.	1,300.33	96.00
			<i>For Flange Frame, Add</i>	110.84	
			<i>For Clear Lacquer Finish, Add</i>	221.67	
			<i>For Baked Enamel Standard Colors, Add</i>	332.51	
			<i>For Anodized Finish, Add</i>	443.34	
			<i>For Kynar® Standard Colors Finish, Add</i>	609.59	
08 91 16 00-0065	EA		36" Wide x 30" High Adjustable Intake Louver, Galvanized Aluminum Note: Includes bird screen. Excludes actuator.	1,522.83	107.52
			<i>For Flange Frame, Add</i>	130.78	
			<i>For Clear Lacquer Finish, Add</i>	261.56	
			<i>For Baked Enamel Standard Colors, Add</i>	392.34	
			<i>For Anodized Finish, Add</i>	523.12	
			<i>For Kynar® Standard Colors Finish, Add</i>	719.30	
08 91 16 00-0066	EA		36" Wide x 36" High Adjustable Intake Louver, Galvanized Aluminum Note: Includes bird screen. Excludes actuator.	1,728.26	116.72
			<i>For Flange Frame, Add</i>	149.48	
			<i>For Clear Lacquer Finish, Add</i>	298.96	
			<i>For Baked Enamel Standard Colors, Add</i>	448.44	
			<i>For Anodized Finish, Add</i>	597.92	
			<i>For Kynar® Standard Colors Finish, Add</i>	822.14	
08 91 16 00-0067	EA		36" Wide x 42" High Adjustable Intake Louver, Galvanized Aluminum Note: Includes bird screen. Excludes actuator.	1,921.61	126.70
			<i>For Flange Frame, Add</i>	166.82	
			<i>For Clear Lacquer Finish, Add</i>	333.64	
			<i>For Baked Enamel Standard Colors, Add</i>	500.46	
			<i>For Anodized Finish, Add</i>	667.28	
			<i>For Kynar® Standard Colors Finish, Add</i>	917.50	
08 91 16 00-0068	EA		36" Wide x 48" High Adjustable Intake Louver, Galvanized Aluminum Note: Includes bird screen. Excludes actuator.	2,171.56	134.38
			<i>For Flange Frame, Add</i>	190.28	
			<i>For Clear Lacquer Finish, Add</i>	380.56	
			<i>For Baked Enamel Standard Colors, Add</i>	570.83	
			<i>For Anodized Finish, Add</i>	761.11	
			<i>For Kynar® Standard Colors Finish, Add</i>	1,046.53	
08 91 16 00-0069	EA		36" Wide x 54" High Adjustable Intake Louver, Galvanized Aluminum Note: Includes bird screen. Excludes actuator.	2,388.39	145.90
			<i>For Flange Frame, Add</i>	209.66	
			<i>For Clear Lacquer Finish, Add</i>	419.31	
			<i>For Baked Enamel Standard Colors, Add</i>	628.97	
			<i>For Anodized Finish, Add</i>	838.63	
			<i>For Kynar® Standard Colors Finish, Add</i>	1,153.11	
08 91 16 00-0070	EA		36" Wide x 60" High Adjustable Intake Louver, Galvanized Aluminum Note: Includes bird screen. Excludes actuator.	2,565.55	157.42
			<i>For Flange Frame, Add</i>	225.07	
			<i>For Clear Lacquer Finish, Add</i>	450.14	
			<i>For Baked Enamel Standard Colors, Add</i>	675.21	
			<i>For Anodized Finish, Add</i>	900.28	
			<i>For Kynar® Standard Colors Finish, Add</i>	1,237.88	
08 91 16 00-0071	EA		36" Wide x 66" High Adjustable Intake Louver, Galvanized Aluminum Note: Includes bird screen. Excludes actuator.	2,747.25	168.94
			<i>For Flange Frame, Add</i>	240.94	
			<i>For Clear Lacquer Finish, Add</i>	481.87	
			<i>For Baked Enamel Standard Colors, Add</i>	722.81	
			<i>For Anodized Finish, Add</i>	963.74	
			<i>For Kynar® Standard Colors Finish, Add</i>	1,325.14	
08 91 16 00-0072	EA		36" Wide x 72" High Adjustable Intake Louver, Galvanized Aluminum Note: Includes bird screen. Excludes actuator.	2,934.60	180.46
			<i>For Flange Frame, Add</i>	257.37	
			<i>For Clear Lacquer Finish, Add</i>	514.74	
			<i>For Baked Enamel Standard Colors, Add</i>	772.10	
			<i>For Anodized Finish, Add</i>	1,029.47	
			<i>For Kynar® Standard Colors Finish, Add</i>	1,415.52	
08 91 16 00-0073	EA		36" Wide x 78" High Adjustable Intake Louver, Galvanized Aluminum Note: Includes bird screen. Excludes actuator.	3,161.88	188.14
			<i>For Flange Frame, Add</i>	278.56	
			<i>For Clear Lacquer Finish, Add</i>	557.12	
			<i>For Baked Enamel Standard Colors, Add</i>	835.68	
			<i>For Anodized Finish, Add</i>	1,114.24	
			<i>For Kynar® Standard Colors Finish, Add</i>	1,532.08	
08 91 16 00-0074	EA		36" Wide x 84" High Adjustable Intake Louver, Galvanized Aluminum Note: Includes bird screen. Excludes actuator.	3,356.30	195.82
			<i>For Flange Frame, Add</i>	296.47	
			<i>For Clear Lacquer Finish, Add</i>	592.93	
			<i>For Baked Enamel Standard Colors, Add</i>	889.40	
			<i>For Anodized Finish, Add</i>	1,185.86	
			<i>For Kynar® Standard Colors Finish, Add</i>	1,630.56	
08 91 16 00-0075	EA		36" Wide x 90" High Adjustable Intake Louver, Galvanized Aluminum Note: Includes bird screen. Excludes actuator.	3,604.86	207.34
			<i>For Flange Frame, Add</i>	319.02	
			<i>For Clear Lacquer Finish, Add</i>	638.04	
			<i>For Baked Enamel Standard Colors, Add</i>	957.05	
			<i>For Anodized Finish, Add</i>	1,276.07	
			<i>For Kynar® Standard Colors Finish, Add</i>	1,754.60	

08 Openings
08 90 Louvers and Vents
08 91 Louvers



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 16 00-0076	EA	36" Wide x 96" High Adjustable Intake Louver, Galvanized Aluminum.....	3,791.10	218.86
		Note: Includes bird screen. Excludes actuator.		
		<i>For Flange Frame, Add</i>	335.34	
		<i>For Clear Lacquer Finish, Add</i>	670.68	
		<i>For Baked Enamel Standard Colors, Add</i>	1,006.01	
		<i>For Anodized Finish, Add</i>	1,341.35	
		<i>For Kynar® Standard Colors Finish, Add</i>	1,844.36	
08 91 16 00-0077	EA	42" Wide x 12" High Adjustable Intake Louver, Galvanized Aluminum.....	941.46	72.96
		Note: Includes bird screen. Excludes actuator.		
		<i>For Flange Frame, Add</i>	79.56	
		<i>For Clear Lacquer Finish, Add</i>	159.11	
		<i>For Baked Enamel Standard Colors, Add</i>	238.67	
		<i>For Anodized Finish, Add</i>	318.22	
		<i>For Kynar® Standard Colors Finish, Add</i>	437.56	
08 91 16 00-0078	EA	42" Wide x 18" High Adjustable Intake Louver, Galvanized Aluminum.....	1,200.85	92.16
		Note: Includes bird screen. Excludes actuator.		
		<i>For Flange Frame, Add</i>	101.66	
		<i>For Clear Lacquer Finish, Add</i>	203.31	
		<i>For Baked Enamel Standard Colors, Add</i>	304.97	
		<i>For Anodized Finish, Add</i>	406.62	
		<i>For Kynar® Standard Colors Finish, Add</i>	559.10	
08 91 16 00-0079	EA	42" Wide x 24" High Adjustable Intake Louver, Galvanized Aluminum.....	1,408.62	103.68
		Note: Includes bird screen. Excludes actuator.		
		<i>For Flange Frame, Add</i>	120.13	
		<i>For Clear Lacquer Finish, Add</i>	240.26	
		<i>For Baked Enamel Standard Colors, Add</i>	360.38	
		<i>For Anodized Finish, Add</i>	480.51	
		<i>For Kynar® Standard Colors Finish, Add</i>	660.70	
08 91 16 00-0080	EA	42" Wide x 30" High Adjustable Intake Louver, Galvanized Aluminum.....	1,646.73	119.02
		Note: Includes bird screen. Excludes actuator.		
		<i>For Flange Frame, Add</i>	140.87	
		<i>For Clear Lacquer Finish, Add</i>	281.73	
		<i>For Baked Enamel Standard Colors, Add</i>	422.60	
		<i>For Anodized Finish, Add</i>	563.47	
		<i>For Kynar® Standard Colors Finish, Add</i>	774.77	
08 91 16 00-0081	EA	42" Wide x 36" High Adjustable Intake Louver, Galvanized Aluminum.....	1,864.94	126.70
		Note: Includes bird screen. Excludes actuator.		
		<i>For Flange Frame, Add</i>	161.15	
		<i>For Clear Lacquer Finish, Add</i>	322.30	
		<i>For Baked Enamel Standard Colors, Add</i>	483.46	
		<i>For Anodized Finish, Add</i>	644.61	
		<i>For Kynar® Standard Colors Finish, Add</i>	886.34	
08 91 16 00-0082	EA	42" Wide x 42" High Adjustable Intake Louver, Galvanized Aluminum.....	2,071.83	134.38
		Note: Includes bird screen. Excludes actuator.		
		<i>For Flange Frame, Add</i>	180.31	
		<i>For Clear Lacquer Finish, Add</i>	360.61	
		<i>For Baked Enamel Standard Colors, Add</i>	540.92	
		<i>For Anodized Finish, Add</i>	721.22	
		<i>For Kynar® Standard Colors Finish, Add</i>	991.68	
08 91 16 00-0083	EA	42" Wide x 48" High Adjustable Intake Louver, Galvanized Aluminum.....	2,343.31	142.06
		Note: Includes bird screen. Excludes actuator.		
		<i>For Flange Frame, Add</i>	205.92	
		<i>For Clear Lacquer Finish, Add</i>	411.83	
		<i>For Baked Enamel Standard Colors, Add</i>	617.75	
		<i>For Anodized Finish, Add</i>	823.67	
		<i>For Kynar® Standard Colors Finish, Add</i>	1,132.54	
08 91 16 00-0084	EA	42" Wide x 54" High Adjustable Intake Louver, Galvanized Aluminum.....	2,563.54	153.58
		Note: Includes bird screen. Excludes actuator.		
		<i>For Flange Frame, Add</i>	225.64	
		<i>For Clear Lacquer Finish, Add</i>	451.27	
		<i>For Baked Enamel Standard Colors, Add</i>	676.91	
		<i>For Anodized Finish, Add</i>	902.54	
		<i>For Kynar® Standard Colors Finish, Add</i>	1,241.00	
08 91 16 00-0085	EA	42" Wide x 60" High Adjustable Intake Louver, Galvanized Aluminum.....	2,762.24	165.10
		Note: Includes bird screen. Excludes actuator.		
		<i>For Flange Frame, Add</i>	243.20	
		<i>For Clear Lacquer Finish, Add</i>	486.40	
		<i>For Baked Enamel Standard Colors, Add</i>	729.61	
		<i>For Anodized Finish, Add</i>	972.81	
		<i>For Kynar® Standard Colors Finish, Add</i>	1,337.61	
08 91 16 00-0086	EA	42" Wide x 66" High Adjustable Intake Louver, Galvanized Aluminum.....	2,948.45	176.62
		Note: Includes bird screen. Excludes actuator.		
		<i>For Flange Frame, Add</i>	259.52	
		<i>For Clear Lacquer Finish, Add</i>	519.04	
		<i>For Baked Enamel Standard Colors, Add</i>	778.56	
		<i>For Anodized Finish, Add</i>	1,038.08	
		<i>For Kynar® Standard Colors Finish, Add</i>	1,427.37	
08 91 16 00-0087	EA	42" Wide x 72" High Adjustable Intake Louver, Galvanized Aluminum.....	3,151.68	188.14
		Note: Includes bird screen. Excludes actuator.		
		<i>For Flange Frame, Add</i>	277.54	
		<i>For Clear Lacquer Finish, Add</i>	555.08	
		<i>For Baked Enamel Standard Colors, Add</i>	832.62	
		<i>For Anodized Finish, Add</i>	1,110.16	
		<i>For Kynar® Standard Colors Finish, Add</i>	1,526.47	



Openings	08
Louvers and Vents	08 90
Louvers	08 91

08

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 16 00-0088	EA		42" Wide x 78" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	3,395.97	195.82
			<i>For Flange Frame, Add</i>	300.43	
			<i>For Clear Lacquer Finish, Add</i>	600.87	
			<i>For Baked Enamel Standard Colors, Add</i>	901.30	
			<i>For Anodized Finish, Add</i>	1,201.73	
			<i>For Kynar® Standard Colors Finish, Add</i>	1,652.38	
08 91 16 00-0089	EA		42" Wide x 84" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	3,608.52	203.50
			<i>For Flange Frame, Add</i>	320.15	
			<i>For Clear Lacquer Finish, Add</i>	640.30	
			<i>For Baked Enamel Standard Colors, Add</i>	960.46	
			<i>For Anodized Finish, Add</i>	1,280.61	
			<i>For Kynar® Standard Colors Finish, Add</i>	1,760.84	
08 91 16 00-0090	EA		42" Wide x 90" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	3,886.54	215.02
			<i>For Flange Frame, Add</i>	345.65	
			<i>For Clear Lacquer Finish, Add</i>	691.30	
			<i>For Baked Enamel Standard Colors, Add</i>	1,036.95	
			<i>For Anodized Finish, Add</i>	1,382.60	
			<i>For Kynar® Standard Colors Finish, Add</i>	1,901.08	
08 91 16 00-0091	EA		42" Wide x 96" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	4,080.71	226.54
			<i>For Flange Frame, Add</i>	362.76	
			<i>For Clear Lacquer Finish, Add</i>	725.53	
			<i>For Baked Enamel Standard Colors, Add</i>	1,088.29	
			<i>For Anodized Finish, Add</i>	1,451.05	
			<i>For Kynar® Standard Colors Finish, Add</i>	1,995.20	
08 91 16 00-0092	EA		48" Wide x 12" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	1,019.15	80.64
			<i>For Flange Frame, Add</i>	85.79	
			<i>For Clear Lacquer Finish, Add</i>	171.58	
			<i>For Baked Enamel Standard Colors, Add</i>	257.37	
			<i>For Anodized Finish, Add</i>	343.16	
			<i>For Kynar® Standard Colors Finish, Add</i>	471.84	
08 91 16 00-0093	EA		48" Wide x 18" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	1,294.41	99.84
			<i>For Flange Frame, Add</i>	109.48	
			<i>For Clear Lacquer Finish, Add</i>	218.95	
			<i>For Baked Enamel Standard Colors, Add</i>	328.43	
			<i>For Anodized Finish, Add</i>	437.90	
			<i>For Kynar® Standard Colors Finish, Add</i>	602.11	
08 91 16 00-0094	EA		48" Wide x 24" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	1,531.39	115.20
			<i>For Flange Frame, Add</i>	130.10	
			<i>For Clear Lacquer Finish, Add</i>	260.20	
			<i>For Baked Enamel Standard Colors, Add</i>	390.30	
			<i>For Anodized Finish, Add</i>	520.40	
			<i>For Kynar® Standard Colors Finish, Add</i>	715.56	
08 91 16 00-0095	EA		48" Wide x 30" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	1,774.28	126.70
			<i>For Flange Frame, Add</i>	152.09	
			<i>For Clear Lacquer Finish, Add</i>	304.17	
			<i>For Baked Enamel Standard Colors, Add</i>	456.26	
			<i>For Anodized Finish, Add</i>	608.34	
			<i>For Kynar® Standard Colors Finish, Add</i>	836.47	
08 91 16 00-0096	EA		48" Wide x 36" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	2,015.16	134.38
			<i>For Flange Frame, Add</i>	174.64	
			<i>For Clear Lacquer Finish, Add</i>	349.28	
			<i>For Baked Enamel Standard Colors, Add</i>	523.91	
			<i>For Anodized Finish, Add</i>	698.55	
			<i>For Kynar® Standard Colors Finish, Add</i>	960.51	
08 91 16 00-0097	EA		48" Wide x 42" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	2,248.11	142.06
			<i>For Flange Frame, Add</i>	196.40	
			<i>For Clear Lacquer Finish, Add</i>	392.79	
			<i>For Baked Enamel Standard Colors, Add</i>	589.19	
			<i>For Anodized Finish, Add</i>	785.59	
			<i>For Kynar® Standard Colors Finish, Add</i>	1,080.18	
08 91 16 00-0098	EA		48" Wide x 48" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	2,538.61	153.58
			<i>For Flange Frame, Add</i>	223.14	
			<i>For Clear Lacquer Finish, Add</i>	446.29	
			<i>For Baked Enamel Standard Colors, Add</i>	669.43	
			<i>For Anodized Finish, Add</i>	892.57	
			<i>For Kynar® Standard Colors Finish, Add</i>	1,227.29	
08 91 16 00-0099	EA		48" Wide x 54" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	2,779.24	165.10
			<i>For Flange Frame, Add</i>	244.90	
			<i>For Clear Lacquer Finish, Add</i>	489.80	
			<i>For Baked Enamel Standard Colors, Add</i>	734.71	
			<i>For Anodized Finish, Add</i>	979.61	
			<i>For Kynar® Standard Colors Finish, Add</i>	1,346.96	

08	Openings
08 90	Louvers and Vents
08 91	Louvers



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 16 00-0100 EA 48" Wide x 60" High Adjustable Intake Louver, Galvanized Aluminum.....	2,988.12	176.62
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	263.49	
For Clear Lacquer Finish, Add	526.98	
For Baked Enamel Standard Colors, Add	790.46	
For Anodized Finish, Add	1,053.95	
For Kynar® Standard Colors Finish, Add	1,449.18	
08 91 16 00-0101 EA 48" Wide x 66" High Adjustable Intake Louver, Galvanized Aluminum.....	3,200.41	188.14
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	282.41	
For Clear Lacquer Finish, Add	564.83	
For Baked Enamel Standard Colors, Add	847.24	
For Anodized Finish, Add	1,129.65	
For Kynar® Standard Colors Finish, Add	1,553.27	
08 91 16 00-0102 EA 48" Wide x 72" High Adjustable Intake Louver, Galvanized Aluminum.....	3,408.18	199.66
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	300.89	
For Clear Lacquer Finish, Add	601.77	
For Baked Enamel Standard Colors, Add	902.66	
For Anodized Finish, Add	1,203.54	
For Kynar® Standard Colors Finish, Add	1,654.87	
08 91 16 00-0103 EA 48" Wide x 78" High Adjustable Intake Louver, Galvanized Aluminum.....	3,684.19	207.34
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	326.95	
For Clear Lacquer Finish, Add	653.90	
For Baked Enamel Standard Colors, Add	980.85	
For Anodized Finish, Add	1,307.80	
For Kynar® Standard Colors Finish, Add	1,798.23	
08 91 16 00-0104 EA 48" Wide x 84" High Adjustable Intake Louver, Galvanized Aluminum.....	3,913.74	215.02
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	348.37	
For Clear Lacquer Finish, Add	696.74	
For Baked Enamel Standard Colors, Add	1,045.11	
For Anodized Finish, Add	1,393.48	
For Kynar® Standard Colors Finish, Add	1,916.04	
08 91 16 00-0105 EA 48" Wide x 90" High Adjustable Intake Louver, Galvanized Aluminum.....	4,196.56	222.70
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	375.12	
For Clear Lacquer Finish, Add	750.23	
For Baked Enamel Standard Colors, Add	1,125.35	
For Anodized Finish, Add	1,500.46	
For Kynar® Standard Colors Finish, Add	2,063.14	
08 91 16 00-0106 EA 48" Wide x 96" High Adjustable Intake Louver, Galvanized Aluminum.....	4,409.99	234.22
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	394.16	
For Clear Lacquer Finish, Add	788.31	
For Baked Enamel Standard Colors, Add	1,182.47	
For Anodized Finish, Add	1,576.62	
For Kynar® Standard Colors Finish, Add	2,167.85	
08 91 16 00-0107 EA 54" Wide x 12" High Adjustable Intake Louver, Galvanized Aluminum.....	1,182.72	92.16
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	99.84	
For Clear Lacquer Finish, Add	199.68	
For Baked Enamel Standard Colors, Add	299.53	
For Anodized Finish, Add	399.37	
For Kynar® Standard Colors Finish, Add	549.13	
08 91 16 00-0108 EA 54" Wide x 18" High Adjustable Intake Louver, Galvanized Aluminum.....	1,514.64	111.36
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	129.19	
For Clear Lacquer Finish, Add	258.39	
For Baked Enamel Standard Colors, Add	387.58	
For Anodized Finish, Add	516.78	
For Kynar® Standard Colors Finish, Add	710.57	
08 91 16 00-0109 EA 54" Wide x 24" High Adjustable Intake Louver, Galvanized Aluminum.....	1,775.16	130.54
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	151.41	
For Clear Lacquer Finish, Add	302.81	
For Baked Enamel Standard Colors, Add	454.22	
For Anodized Finish, Add	605.62	
For Kynar® Standard Colors Finish, Add	832.73	
08 91 16 00-0110 EA 54" Wide x 30" High Adjustable Intake Louver, Galvanized Aluminum.....	2,036.44	138.22
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	176.00	
For Clear Lacquer Finish, Add	352.00	
For Baked Enamel Standard Colors, Add	527.99	
For Anodized Finish, Add	703.99	
For Kynar® Standard Colors Finish, Add	967.99	
08 91 16 00-0111 EA 54" Wide x 36" High Adjustable Intake Louver, Galvanized Aluminum.....	2,320.39	145.90
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	202.86	
For Clear Lacquer Finish, Add	405.71	
For Baked Enamel Standard Colors, Add	608.57	
For Anodized Finish, Add	811.43	
For Kynar® Standard Colors Finish, Add	1,115.71	



Openings	08
Louvers and Vents	08 90
Louvers	08 91

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 16 00-0112	EA		54" Wide x 42" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	2,574.87	153.58
			<i>For Flange Frame, Add</i>	226.77	
			<i>For Clear Lacquer Finish, Add</i>	453.54	
			<i>For Baked Enamel Standard Colors, Add</i>	680.31	
			<i>For Anodized Finish, Add</i>	907.08	
			<i>For Kynar® Standard Colors Finish, Add</i>	1,247.23	
08 91 16 00-0113	EA		54" Wide x 48" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	2,911.83	165.10
			<i>For Flange Frame, Add</i>	258.16	
			<i>For Clear Lacquer Finish, Add</i>	516.32	
			<i>For Baked Enamel Standard Colors, Add</i>	774.48	
			<i>For Anodized Finish, Add</i>	1,032.64	
			<i>For Kynar® Standard Colors Finish, Add</i>	1,419.89	
08 91 16 00-0114	EA		54" Wide x 54" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	3,239.70	176.62
			<i>For Flange Frame, Add</i>	288.65	
			<i>For Clear Lacquer Finish, Add</i>	577.29	
			<i>For Baked Enamel Standard Colors, Add</i>	865.94	
			<i>For Anodized Finish, Add</i>	1,154.58	
			<i>For Kynar® Standard Colors Finish, Add</i>	1,587.55	
08 91 16 00-0115	EA		54" Wide x 60" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	3,486.00	188.14
			<i>For Flange Frame, Add</i>	310.97	
			<i>For Clear Lacquer Finish, Add</i>	621.94	
			<i>For Baked Enamel Standard Colors, Add</i>	932.92	
			<i>For Anodized Finish, Add</i>	1,243.89	
			<i>For Kynar® Standard Colors Finish, Add</i>	1,710.35	
08 91 16 00-0116	EA		54" Wide x 66" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	3,728.90	199.66
			<i>For Flange Frame, Add</i>	332.96	
			<i>For Clear Lacquer Finish, Add</i>	665.92	
			<i>For Baked Enamel Standard Colors, Add</i>	998.87	
			<i>For Anodized Finish, Add</i>	1,331.83	
			<i>For Kynar® Standard Colors Finish, Add</i>	1,831.27	
08 91 16 00-0117	EA		54" Wide x 72" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	3,961.85	207.34
			<i>For Flange Frame, Add</i>	354.72	
			<i>For Clear Lacquer Finish, Add</i>	709.43	
			<i>For Baked Enamel Standard Colors, Add</i>	1,064.15	
			<i>For Anodized Finish, Add</i>	1,418.87	
			<i>For Kynar® Standard Colors Finish, Add</i>	1,950.94	
08 91 16 00-0118	EA		54" Wide x 78" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	4,269.59	215.02
			<i>For Flange Frame, Add</i>	383.96	
			<i>For Clear Lacquer Finish, Add</i>	767.91	
			<i>For Baked Enamel Standard Colors, Add</i>	1,151.87	
			<i>For Anodized Finish, Add</i>	1,535.82	
			<i>For Kynar® Standard Colors Finish, Add</i>	2,111.75	
08 91 16 00-0119	EA		54" Wide x 84" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	4,526.34	222.70
			<i>For Flange Frame, Add</i>	408.09	
			<i>For Clear Lacquer Finish, Add</i>	816.19	
			<i>For Baked Enamel Standard Colors, Add</i>	1,224.28	
			<i>For Anodized Finish, Add</i>	1,632.38	
			<i>For Kynar® Standard Colors Finish, Add</i>	2,244.52	
08 91 16 00-0120	EA		54" Wide x 90" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	4,856.75	230.38
			<i>For Flange Frame, Add</i>	439.60	
			<i>For Clear Lacquer Finish, Add</i>	879.20	
			<i>For Baked Enamel Standard Colors, Add</i>	1,318.80	
			<i>For Anodized Finish, Add</i>	1,758.40	
			<i>For Kynar® Standard Colors Finish, Add</i>	2,417.79	
08 91 16 00-0121	EA		54" Wide x 96" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	5,105.32	241.90
			<i>For Flange Frame, Add</i>	462.15	
			<i>For Clear Lacquer Finish, Add</i>	924.30	
			<i>For Baked Enamel Standard Colors, Add</i>	1,386.46	
			<i>For Anodized Finish, Add</i>	1,848.61	
			<i>For Kynar® Standard Colors Finish, Add</i>	2,541.84	
08 91 16 00-0122	EA		60" Wide x 12" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	1,255.88	99.84
			<i>For Flange Frame, Add</i>	105.62	
			<i>For Clear Lacquer Finish, Add</i>	211.24	
			<i>For Baked Enamel Standard Colors, Add</i>	316.87	
			<i>For Anodized Finish, Add</i>	422.49	
			<i>For Kynar® Standard Colors Finish, Add</i>	580.92	
08 91 16 00-0123	EA		60" Wide x 18" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	1,615.88	122.86
			<i>For Flange Frame, Add</i>	137.01	
			<i>For Clear Lacquer Finish, Add</i>	274.03	
			<i>For Baked Enamel Standard Colors, Add</i>	411.04	
			<i>For Anodized Finish, Add</i>	548.06	
			<i>For Kynar® Standard Colors Finish, Add</i>	753.58	



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 16 00-0124	EA	60" Wide x 24" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	1,881.18	138.22
		<i>For Flange Frame, Add</i>	160.47	
		<i>For Clear Lacquer Finish, Add</i>	320.94	
		<i>For Baked Enamel Standard Colors, Add</i>	481.42	
		<i>For Anodized Finish, Add</i>	641.89	
		<i>For Kynar® Standard Colors Finish, Add</i>	882.60	
08 91 16 00-0125	EA	60" Wide x 30" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	2,168.53	145.90
		<i>For Flange Frame, Add</i>	187.67	
		<i>For Clear Lacquer Finish, Add</i>	375.34	
		<i>For Baked Enamel Standard Colors, Add</i>	563.01	
		<i>For Anodized Finish, Add</i>	750.68	
		<i>For Kynar® Standard Colors Finish, Add</i>	1,032.19	
08 91 16 00-0126	EA	60" Wide x 36" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	2,470.36	157.42
		<i>For Flange Frame, Add</i>	215.55	
		<i>For Clear Lacquer Finish, Add</i>	431.10	
		<i>For Baked Enamel Standard Colors, Add</i>	646.65	
		<i>For Anodized Finish, Add</i>	862.20	
		<i>For Kynar® Standard Colors Finish, Add</i>	1,185.53	
08 91 16 00-0127	EA	60" Wide x 42" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	2,739.57	165.10
		<i>For Flange Frame, Add</i>	240.94	
		<i>For Clear Lacquer Finish, Add</i>	481.87	
		<i>For Baked Enamel Standard Colors, Add</i>	722.81	
		<i>For Anodized Finish, Add</i>	963.74	
		<i>For Kynar® Standard Colors Finish, Add</i>	1,325.14	
08 91 16 00-0128	EA	60" Wide x 48" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	3,100.31	176.62
		<i>For Flange Frame, Add</i>	274.71	
		<i>For Clear Lacquer Finish, Add</i>	549.41	
		<i>For Baked Enamel Standard Colors, Add</i>	824.12	
		<i>For Anodized Finish, Add</i>	1,098.83	
		<i>For Kynar® Standard Colors Finish, Add</i>	1,510.89	
08 91 16 00-0129	EA	60" Wide x 54" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	3,437.27	188.14
		<i>For Flange Frame, Add</i>	306.10	
		<i>For Clear Lacquer Finish, Add</i>	612.20	
		<i>For Baked Enamel Standard Colors, Add</i>	918.30	
		<i>For Anodized Finish, Add</i>	1,224.40	
		<i>For Kynar® Standard Colors Finish, Add</i>	1,683.54	
08 91 16 00-0130	EA	60" Wide x 60" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	3,700.56	199.66
		<i>For Flange Frame, Add</i>	330.12	
		<i>For Clear Lacquer Finish, Add</i>	660.25	
		<i>For Baked Enamel Standard Colors, Add</i>	990.37	
		<i>For Anodized Finish, Add</i>	1,320.50	
		<i>For Kynar® Standard Colors Finish, Add</i>	1,815.68	
08 91 16 00-0131	EA	60" Wide x 66" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	3,959.33	211.18
		<i>For Flange Frame, Add</i>	353.70	
		<i>For Clear Lacquer Finish, Add</i>	707.39	
		<i>For Baked Enamel Standard Colors, Add</i>	1,061.09	
		<i>For Anodized Finish, Add</i>	1,414.79	
		<i>For Kynar® Standard Colors Finish, Add</i>	1,945.33	
08 91 16 00-0132	EA	60" Wide x 72" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	4,207.01	218.86
		<i>For Flange Frame, Add</i>	376.93	
		<i>For Clear Lacquer Finish, Add</i>	753.86	
		<i>For Baked Enamel Standard Colors, Add</i>	1,130.79	
		<i>For Anodized Finish, Add</i>	1,507.72	
		<i>For Kynar® Standard Colors Finish, Add</i>	2,073.11	
08 91 16 00-0133	EA	60" Wide x 78" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	4,540.82	226.54
		<i>For Flange Frame, Add</i>	408.77	
		<i>For Clear Lacquer Finish, Add</i>	817.55	
		<i>For Baked Enamel Standard Colors, Add</i>	1,226.32	
		<i>For Anodized Finish, Add</i>	1,635.10	
		<i>For Kynar® Standard Colors Finish, Add</i>	2,248.26	
08 91 16 00-0134	EA	60" Wide x 84" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	4,810.04	234.22
		<i>For Flange Frame, Add</i>	434.16	
		<i>For Clear Lacquer Finish, Add</i>	868.32	
		<i>For Baked Enamel Standard Colors, Add</i>	1,302.48	
		<i>For Anodized Finish, Add</i>	1,736.64	
		<i>For Kynar® Standard Colors Finish, Add</i>	2,387.88	
08 91 16 00-0135	EA	60" Wide x 90" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	5,157.45	241.90
		<i>For Flange Frame, Add</i>	467.37	
		<i>For Clear Lacquer Finish, Add</i>	934.73	
		<i>For Baked Enamel Standard Colors, Add</i>	1,402.10	
		<i>For Anodized Finish, Add</i>	1,869.46	
		<i>For Kynar® Standard Colors Finish, Add</i>	2,570.51	



Openings	08
Louvers and Vents	08 90
Louvers	08 91

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 16 00-0136	EA		60" Wide x 96" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	5,413.06	249.58
			<i>For Flange Frame, Add</i>	491.39	
			<i>For Clear Lacquer Finish, Add</i>	982.78	
			<i>For Baked Enamel Standard Colors, Add</i>	1,474.17	
			<i>For Anodized Finish, Add</i>	1,965.56	
			<i>For Kynar® Standard Colors Finish, Add</i>	2,702.65	
08 91 16 00-0137			Adjustable Intake Wall Louvers Operators (08 91 16)		
08 91 16 00-0138	EA		5' Chain Actuator For Adjustable Intake Louver.....	321.59	38.40
08 91 16 00-0139	EA		Panel Crank For Adjustable Intake Louver.....	685.76	15.36
08 91 19			Fixed Louvers (08 91)		
08 91 19 00-0001			Fixed Intake Wall Louvers (08 91 19)		
08 91 19 00-0002	EA		12" Wide x 12" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	411.37	34.56
			<i>For Flange Frame, Add</i>	34.23	
			<i>For Clear Lacquer Finish, Add</i>	68.45	
			<i>For Baked Enamel Standard Colors, Add</i>	102.68	
			<i>For Anodized Finish, Add</i>	136.90	
			<i>For Kynar® Standard Colors Finish, Add</i>	188.24	
08 91 19 00-0003	EA		12" Wide x 18" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	489.06	42.24
			<i>For Flange Frame, Add</i>	40.46	
			<i>For Clear Lacquer Finish, Add</i>	80.92	
			<i>For Baked Enamel Standard Colors, Add</i>	121.37	
			<i>For Anodized Finish, Add</i>	161.83	
			<i>For Kynar® Standard Colors Finish, Add</i>	222.52	
08 91 19 00-0004	EA		12" Wide x 24" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	567.88	49.92
			<i>For Flange Frame, Add</i>	46.80	
			<i>For Clear Lacquer Finish, Add</i>	93.61	
			<i>For Baked Enamel Standard Colors, Add</i>	140.41	
			<i>For Anodized Finish, Add</i>	187.22	
			<i>For Kynar® Standard Colors Finish, Add</i>	257.42	
08 91 19 00-0005	EA		12" Wide x 30" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	665.97	57.60
			<i>For Flange Frame, Add</i>	55.08	
			<i>For Clear Lacquer Finish, Add</i>	110.15	
			<i>For Baked Enamel Standard Colors, Add</i>	165.23	
			<i>For Anodized Finish, Add</i>	220.31	
			<i>For Kynar® Standard Colors Finish, Add</i>	302.92	
08 91 19 00-0006	EA		12" Wide x 36" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	749.31	65.28
			<i>For Flange Frame, Add</i>	61.88	
			<i>For Clear Lacquer Finish, Add</i>	123.75	
			<i>For Baked Enamel Standard Colors, Add</i>	185.63	
			<i>For Anodized Finish, Add</i>	247.51	
			<i>For Kynar® Standard Colors Finish, Add</i>	340.32	
08 91 19 00-0007	EA		12" Wide x 42" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	882.53	72.96
			<i>For Flange Frame, Add</i>	73.66	
			<i>For Clear Lacquer Finish, Add</i>	147.33	
			<i>For Baked Enamel Standard Colors, Add</i>	220.99	
			<i>For Anodized Finish, Add</i>	294.65	
			<i>For Kynar® Standard Colors Finish, Add</i>	405.15	
08 91 19 00-0008	EA		12" Wide x 48" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	956.82	80.64
			<i>For Flange Frame, Add</i>	79.56	
			<i>For Clear Lacquer Finish, Add</i>	159.11	
			<i>For Baked Enamel Standard Colors, Add</i>	238.67	
			<i>For Anodized Finish, Add</i>	318.22	
			<i>For Kynar® Standard Colors Finish, Add</i>	437.56	
08 91 19 00-0009	EA		12" Wide x 54" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	1,070.52	92.16
			<i>For Flange Frame, Add</i>	88.62	
			<i>For Clear Lacquer Finish, Add</i>	177.24	
			<i>For Baked Enamel Standard Colors, Add</i>	265.87	
			<i>For Anodized Finish, Add</i>	354.49	
			<i>For Kynar® Standard Colors Finish, Add</i>	487.42	
08 91 19 00-0010	EA		12" Wide x 60" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	1,139.15	99.84
			<i>For Flange Frame, Add</i>	93.95	
			<i>For Clear Lacquer Finish, Add</i>	187.90	
			<i>For Baked Enamel Standard Colors, Add</i>	281.85	
			<i>For Anodized Finish, Add</i>	375.80	
			<i>For Kynar® Standard Colors Finish, Add</i>	516.72	

08	Openings
08 90	Louvers and Vents
08 91	Louvers



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 19 00-0011	EA	12" Wide x 66" High Fixed Intake Louver, Galvanized Aluminum.....	1,231.57	107.52
		Note: Includes bird screen. Excludes actuator.		
		<i>For Flange Frame, Add</i>	101.66	
		<i>For Clear Lacquer Finish, Add</i>	203.31	
		<i>For Baked Enamel Standard Colors, Add</i>	304.97	
		<i>For Anodized Finish, Add</i>	406.62	
		<i>For Kynar® Standard Colors Finish, Add</i>	559.10	
08 91 19 00-0012	EA	12" Wide x 72" High Fixed Intake Louver, Galvanized Aluminum.....	1,312.66	115.20
		Note: Includes bird screen. Excludes actuator.		
		<i>For Flange Frame, Add</i>	108.23	
		<i>For Clear Lacquer Finish, Add</i>	216.46	
		<i>For Baked Enamel Standard Colors, Add</i>	324.68	
		<i>For Anodized Finish, Add</i>	432.91	
		<i>For Kynar® Standard Colors Finish, Add</i>	595.25	
08 91 19 00-0013	EA	12" Wide x 78" High Fixed Intake Louver, Galvanized Aluminum.....	1,408.49	122.86
		Note: Includes bird screen. Excludes actuator.		
		<i>For Flange Frame, Add</i>	116.28	
		<i>For Clear Lacquer Finish, Add</i>	232.55	
		<i>For Baked Enamel Standard Colors, Add</i>	348.83	
		<i>For Anodized Finish, Add</i>	465.10	
		<i>For Kynar® Standard Colors Finish, Add</i>	639.51	
08 91 19 00-0014	EA	12" Wide x 84" High Fixed Intake Louver, Galvanized Aluminum.....	1,498.64	130.54
		Note: Includes bird screen. Excludes actuator.		
		<i>For Flange Frame, Add</i>	123.75	
		<i>For Clear Lacquer Finish, Add</i>	247.51	
		<i>For Baked Enamel Standard Colors, Add</i>	371.26	
		<i>For Anodized Finish, Add</i>	495.02	
		<i>For Kynar® Standard Colors Finish, Add</i>	680.65	
08 91 19 00-0015	EA	12" Wide x 90" High Fixed Intake Louver, Galvanized Aluminum.....	1,580.61	142.06
		Note: Includes bird screen. Excludes actuator.		
		<i>For Flange Frame, Add</i>	129.65	
		<i>For Clear Lacquer Finish, Add</i>	259.29	
		<i>For Baked Enamel Standard Colors, Add</i>	388.94	
		<i>For Anodized Finish, Add</i>	518.59	
		<i>For Kynar® Standard Colors Finish, Add</i>	713.06	
08 91 19 00-0016	EA	12" Wide x 96" High Fixed Intake Louver, Galvanized Aluminum.....	1,688.65	153.58
		Note: Includes bird screen. Excludes actuator.		
		<i>For Flange Frame, Add</i>	138.15	
		<i>For Clear Lacquer Finish, Add</i>	276.29	
		<i>For Baked Enamel Standard Colors, Add</i>	414.44	
		<i>For Anodized Finish, Add</i>	552.59	
		<i>For Kynar® Standard Colors Finish, Add</i>	759.81	
08 91 19 00-0017	EA	18" Wide x 12" High Fixed Intake Louver, Galvanized Aluminum.....	478.86	42.24
		Note: Includes bird screen. Excludes actuator.		
		<i>For Flange Frame, Add</i>	39.44	
		<i>For Clear Lacquer Finish, Add</i>	78.88	
		<i>For Baked Enamel Standard Colors, Add</i>	118.31	
		<i>For Anodized Finish, Add</i>	157.75	
		<i>For Kynar® Standard Colors Finish, Add</i>	216.91	
08 91 19 00-0018	EA	18" Wide x 18" High Fixed Intake Louver, Galvanized Aluminum.....	575.56	53.76
		Note: Includes bird screen. Excludes actuator.		
		<i>For Flange Frame, Add</i>	46.80	
		<i>For Clear Lacquer Finish, Add</i>	93.61	
		<i>For Baked Enamel Standard Colors, Add</i>	140.41	
		<i>For Anodized Finish, Add</i>	187.22	
		<i>For Kynar® Standard Colors Finish, Add</i>	257.42	
08 91 19 00-0019	EA	18" Wide x 24" High Fixed Intake Louver, Galvanized Aluminum.....	666.83	61.44
		Note: Includes bird screen. Excludes actuator.		
		<i>For Flange Frame, Add</i>	54.40	
		<i>For Clear Lacquer Finish, Add</i>	108.79	
		<i>For Baked Enamel Standard Colors, Add</i>	163.19	
		<i>For Anodized Finish, Add</i>	217.59	
		<i>For Kynar® Standard Colors Finish, Add</i>	299.18	
08 91 19 00-0020	EA	18" Wide x 30" High Fixed Intake Louver, Galvanized Aluminum.....	835.81	76.80
		Note: Includes bird screen. Excludes actuator.		
		<i>For Flange Frame, Add</i>	68.22	
		<i>For Clear Lacquer Finish, Add</i>	136.45	
		<i>For Baked Enamel Standard Colors, Add</i>	204.67	
		<i>For Anodized Finish, Add</i>	272.89	
		<i>For Kynar® Standard Colors Finish, Add</i>	375.23	
08 91 19 00-0021	EA	18" Wide x 36" High Fixed Intake Louver, Galvanized Aluminum.....	957.70	84.48
		Note: Includes bird screen. Excludes actuator.		
		<i>For Flange Frame, Add</i>	78.88	
		<i>For Clear Lacquer Finish, Add</i>	157.75	
		<i>For Baked Enamel Standard Colors, Add</i>	236.63	
		<i>For Anodized Finish, Add</i>	315.50	
		<i>For Kynar® Standard Colors Finish, Add</i>	433.82	
08 91 19 00-0022	EA	18" Wide x 42" High Fixed Intake Louver, Galvanized Aluminum.....	1,065.99	92.16
		Note: Includes bird screen. Excludes actuator.		
		<i>For Flange Frame, Add</i>	88.17	
		<i>For Clear Lacquer Finish, Add</i>	176.34	
		<i>For Baked Enamel Standard Colors, Add</i>	264.51	
		<i>For Anodized Finish, Add</i>	352.68	
		<i>For Kynar® Standard Colors Finish, Add</i>	484.93	



Openings	08
Louvers and Vents	08 90
Louvers	08 91

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91	19 00-0023	EA	18" Wide x 48" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	1,143.68 94.40 188.80 283.21 377.61 519.21	99.84
08 91	19 00-0024	EA	18" Wide x 54" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	1,273.25 105.06 210.11 315.17 420.22 577.80	111.36
08 91	19 00-0025	EA	18" Wide x 60" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	1,365.42 111.97 223.94 335.90 447.87 615.82	122.86
08 91	19 00-0026	EA	18" Wide x 66" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	1,482.78 122.17 244.34 366.50 488.67 671.92	130.54
08 91	19 00-0027	EA	18" Wide x 72" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	1,572.93 129.65 259.29 388.94 518.59 713.06	138.22
08 91	19 00-0028	EA	18" Wide x 78" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	1,673.29 138.15 276.29 414.44 552.59 759.81	145.90
08 91	19 00-0029	EA	18" Wide x 84" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	1,778.18 147.10 294.20 441.30 588.40 809.05	153.58
08 91	19 00-0030	EA	18" Wide x 90" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	1,872.61 154.24 308.48 462.72 616.96 848.31	165.10
08 91	19 00-0031	EA	18" Wide x 96" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	2,002.16 164.89 329.78 494.68 659.57 906.91	176.62
08 91	19 00-0032	EA	24" Wide x 12" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	554.29 45.45 90.89 136.34 181.78 249.95	49.92
08 91	19 00-0033	EA	24" Wide x 18" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	661.17 53.83 107.66 161.49 215.32 296.07	61.44
08 91	19 00-0034	EA	24" Wide x 24" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	817.94 67.20 134.41 201.61 268.82 369.62	72.96

08	Openings
08 90	Louvers and Vents
08 91	Louvers



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 19 00-0035	EA	24" Wide x 30" High Fixed Intake Louver, Galvanized Aluminum.....	965.38	88.32
		Note: Includes bird screen. Excludes actuator.		
		For Flange Frame, Add	78.88	
		For Clear Lacquer Finish, Add	157.75	
		For Baked Enamel Standard Colors, Add	236.63	
		For Anodized Finish, Add	315.50	
		For Kynar® Standard Colors Finish, Add	433.82	
08 91 19 00-0036	EA	24" Wide x 36" High Fixed Intake Louver, Galvanized Aluminum.....	1,103.14	96.00
		Note: Includes bird screen. Excludes actuator.		
		For Flange Frame, Add	91.12	
		For Clear Lacquer Finish, Add	182.23	
		For Baked Enamel Standard Colors, Add	273.35	
		For Anodized Finish, Add	364.46	
		For Kynar® Standard Colors Finish, Add	501.14	
08 91 19 00-0037	EA	24" Wide x 42" High Fixed Intake Louver, Galvanized Aluminum.....	1,230.69	103.68
		Note: Includes bird screen. Excludes actuator.		
		For Flange Frame, Add	102.34	
		For Clear Lacquer Finish, Add	204.67	
		For Baked Enamel Standard Colors, Add	307.01	
		For Anodized Finish, Add	409.34	
		For Kynar® Standard Colors Finish, Add	562.84	
08 91 19 00-0038	EA	24" Wide x 48" High Fixed Intake Louver, Galvanized Aluminum.....	1,338.73	115.20
		Note: Includes bird screen. Excludes actuator.		
		For Flange Frame, Add	110.84	
		For Clear Lacquer Finish, Add	221.67	
		For Baked Enamel Standard Colors, Add	332.51	
		For Anodized Finish, Add	443.34	
		For Kynar® Standard Colors Finish, Add	609.59	
08 91 19 00-0039	EA	24" Wide x 54" High Fixed Intake Louver, Galvanized Aluminum.....	1,482.78	130.54
		Note: Includes bird screen. Excludes actuator.		
		For Flange Frame, Add	122.17	
		For Clear Lacquer Finish, Add	244.34	
		For Baked Enamel Standard Colors, Add	366.50	
		For Anodized Finish, Add	488.67	
		For Kynar® Standard Colors Finish, Add	671.92	
08 91 19 00-0040	EA	24" Wide x 60" High Fixed Intake Louver, Galvanized Aluminum.....	1,577.47	138.22
		Note: Includes bird screen. Excludes actuator.		
		For Flange Frame, Add	130.10	
		For Clear Lacquer Finish, Add	260.20	
		For Baked Enamel Standard Colors, Add	390.30	
		For Anodized Finish, Add	520.40	
		For Kynar® Standard Colors Finish, Add	715.56	
08 91 19 00-0041	EA	24" Wide x 66" High Fixed Intake Louver, Galvanized Aluminum.....	1,733.98	153.58
		Note: Includes bird screen. Excludes actuator.		
		For Flange Frame, Add	142.68	
		For Clear Lacquer Finish, Add	285.36	
		For Baked Enamel Standard Colors, Add	428.04	
		For Anodized Finish, Add	570.72	
		For Kynar® Standard Colors Finish, Add	784.74	
08 91 19 00-0042	EA	24" Wide x 72" High Fixed Intake Louver, Galvanized Aluminum.....	1,832.07	161.26
		Note: Includes bird screen. Excludes actuator.		
		For Flange Frame, Add	150.95	
		For Clear Lacquer Finish, Add	301.91	
		For Baked Enamel Standard Colors, Add	452.86	
		For Anodized Finish, Add	603.81	
		For Kynar® Standard Colors Finish, Add	830.24	
08 91 19 00-0043	EA	24" Wide x 78" High Fixed Intake Louver, Galvanized Aluminum.....	1,958.49	168.94
		Note: Includes bird screen. Excludes actuator.		
		For Flange Frame, Add	162.06	
		For Clear Lacquer Finish, Add	324.12	
		For Baked Enamel Standard Colors, Add	486.18	
		For Anodized Finish, Add	648.24	
		For Kynar® Standard Colors Finish, Add	891.32	
08 91 19 00-0044	EA	24" Wide x 84" High Fixed Intake Louver, Galvanized Aluminum.....	2,082.63	176.62
		Note: Includes bird screen. Excludes actuator.		
		For Flange Frame, Add	172.94	
		For Clear Lacquer Finish, Add	345.88	
		For Baked Enamel Standard Colors, Add	518.82	
		For Anodized Finish, Add	691.76	
		For Kynar® Standard Colors Finish, Add	951.16	
08 91 19 00-0045	EA	24" Wide x 90" High Fixed Intake Louver, Galvanized Aluminum.....	2,179.33	188.14
		Note: Includes bird screen. Excludes actuator.		
		For Flange Frame, Add	180.31	
		For Clear Lacquer Finish, Add	360.61	
		For Baked Enamel Standard Colors, Add	540.92	
		For Anodized Finish, Add	721.22	
		For Kynar® Standard Colors Finish, Add	991.68	
08 91 19 00-0046	EA	24" Wide x 96" High Fixed Intake Louver, Galvanized Aluminum.....	2,336.10	199.66
		Note: Includes bird screen. Excludes actuator.		
		For Flange Frame, Add	193.68	
		For Clear Lacquer Finish, Add	387.36	
		For Baked Enamel Standard Colors, Add	581.03	
		For Anodized Finish, Add	774.71	
		For Kynar® Standard Colors Finish, Add	1,065.23	



Openings	08
Louvers and Vents	08 90
Louvers	08 91

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91	19 00-0047	EA	30" Wide x 12" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	621.78	57.60
			<i>For Flange Frame, Add</i>	50.66	
			<i>For Clear Lacquer Finish, Add</i>	101.32	
			<i>For Baked Enamel Standard Colors, Add</i>	151.97	
			<i>For Anodized Finish, Add</i>	202.63	
			<i>For Kynar® Standard Colors Finish, Add</i>	278.62	
08 91	19 00-0048	EA	30" Wide x 18" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	805.22	76.80
			<i>For Flange Frame, Add</i>	65.16	
			<i>For Clear Lacquer Finish, Add</i>	130.33	
			<i>For Baked Enamel Standard Colors, Add</i>	195.49	
			<i>For Anodized Finish, Add</i>	260.66	
			<i>For Kynar® Standard Colors Finish, Add</i>	358.40	
08 91	19 00-0049	EA	30" Wide x 24" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	939.32	88.32
			<i>For Flange Frame, Add</i>	76.27	
			<i>For Clear Lacquer Finish, Add</i>	152.54	
			<i>For Baked Enamel Standard Colors, Add</i>	228.81	
			<i>For Anodized Finish, Add</i>	305.08	
			<i>For Kynar® Standard Colors Finish, Add</i>	419.49	
08 91	19 00-0050	EA	30" Wide x 30" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	1,094.95	99.84
			<i>For Flange Frame, Add</i>	89.53	
			<i>For Clear Lacquer Finish, Add</i>	179.06	
			<i>For Baked Enamel Standard Colors, Add</i>	268.59	
			<i>For Anodized Finish, Add</i>	358.12	
			<i>For Kynar® Standard Colors Finish, Add</i>	492.41	
08 91	19 00-0051	EA	30" Wide x 36" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	1,259.90	107.52
			<i>For Flange Frame, Add</i>	104.49	
			<i>For Clear Lacquer Finish, Add</i>	208.98	
			<i>For Baked Enamel Standard Colors, Add</i>	313.46	
			<i>For Anodized Finish, Add</i>	417.95	
			<i>For Kynar® Standard Colors Finish, Add</i>	574.68	
08 91	19 00-0052	EA	30" Wide x 42" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	1,400.81	119.02
			<i>For Flange Frame, Add</i>	116.28	
			<i>For Clear Lacquer Finish, Add</i>	232.55	
			<i>For Baked Enamel Standard Colors, Add</i>	348.83	
			<i>For Anodized Finish, Add</i>	465.10	
			<i>For Kynar® Standard Colors Finish, Add</i>	639.51	
08 91	19 00-0053	EA	30" Wide x 48" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	1,505.69	126.70
			<i>For Flange Frame, Add</i>	125.23	
			<i>For Clear Lacquer Finish, Add</i>	250.45	
			<i>For Baked Enamel Standard Colors, Add</i>	375.68	
			<i>For Anodized Finish, Add</i>	500.91	
			<i>For Kynar® Standard Colors Finish, Add</i>	688.75	
08 91	19 00-0054	EA	30" Wide x 54" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	1,653.40	138.22
			<i>For Flange Frame, Add</i>	137.69	
			<i>For Clear Lacquer Finish, Add</i>	275.39	
			<i>For Baked Enamel Standard Colors, Add</i>	413.08	
			<i>For Anodized Finish, Add</i>	550.78	
			<i>For Kynar® Standard Colors Finish, Add</i>	757.32	
08 91	19 00-0055	EA	30" Wide x 60" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	1,770.75	145.90
			<i>For Flange Frame, Add</i>	147.89	
			<i>For Clear Lacquer Finish, Add</i>	295.79	
			<i>For Baked Enamel Standard Colors, Add</i>	443.68	
			<i>For Anodized Finish, Add</i>	591.57	
			<i>For Kynar® Standard Colors Finish, Add</i>	813.41	
08 91	19 00-0056	EA	30" Wide x 66" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	1,951.06	161.26
			<i>For Flange Frame, Add</i>	162.85	
			<i>For Clear Lacquer Finish, Add</i>	325.70	
			<i>For Baked Enamel Standard Colors, Add</i>	488.56	
			<i>For Anodized Finish, Add</i>	651.41	
			<i>For Kynar® Standard Colors Finish, Add</i>	895.69	
08 91	19 00-0057	EA	30" Wide x 72" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	2,067.01	172.78
			<i>For Flange Frame, Add</i>	172.15	
			<i>For Clear Lacquer Finish, Add</i>	344.29	
			<i>For Baked Enamel Standard Colors, Add</i>	516.44	
			<i>For Anodized Finish, Add</i>	688.58	
			<i>For Kynar® Standard Colors Finish, Add</i>	946.80	
08 91	19 00-0058	EA	30" Wide x 78" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	2,201.37	180.46
			<i>For Flange Frame, Add</i>	184.05	
			<i>For Clear Lacquer Finish, Add</i>	368.09	
			<i>For Baked Enamel Standard Colors, Add</i>	552.14	
			<i>For Anodized Finish, Add</i>	736.18	
			<i>For Kynar® Standard Colors Finish, Add</i>	1,012.25	

08	Openings
08 90	Louvers and Vents
08 91	Louvers



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 19 00-0059	EA	30" Wide x 84" High Fixed Intake Louver, Galvanized Aluminum.....	2,334.59	188.14
		Note: Includes bird screen. Excludes actuator.		
		<i>For Flange Frame, Add</i>	195.83	
		<i>For Clear Lacquer Finish, Add</i>	391.66	
		<i>For Baked Enamel Standard Colors, Add</i>	587.49	
		<i>For Anodized Finish, Add</i>	783.32	
		<i>For Kynar® Standard Colors Finish, Add</i>	1,077.07	
08 91 19 00-0060	EA	30" Wide x 90" High Fixed Intake Louver, Galvanized Aluminum.....	2,448.29	199.66
		Note: Includes bird screen. Excludes actuator.		
		<i>For Flange Frame, Add</i>	204.90	
		<i>For Clear Lacquer Finish, Add</i>	409.79	
		<i>For Baked Enamel Standard Colors, Add</i>	614.69	
		<i>For Anodized Finish, Add</i>	819.59	
		<i>For Kynar® Standard Colors Finish, Add</i>	1,126.93	
08 91 19 00-0061	EA	30" Wide x 96" High Fixed Intake Louver, Galvanized Aluminum.....	2,625.46	211.18
		Note: Includes bird screen. Excludes actuator.		
		<i>For Flange Frame, Add</i>	220.31	
		<i>For Clear Lacquer Finish, Add</i>	440.62	
		<i>For Baked Enamel Standard Colors, Add</i>	660.93	
		<i>For Anodized Finish, Add</i>	881.24	
		<i>For Kynar® Standard Colors Finish, Add</i>	1,211.71	
08 91 19 00-0062	EA	36" Wide x 12" High Fixed Intake Louver, Galvanized Aluminum.....	690.38	65.28
		Note: Includes bird screen. Excludes actuator.		
		<i>For Flange Frame, Add</i>	55.98	
		<i>For Clear Lacquer Finish, Add</i>	111.97	
		<i>For Baked Enamel Standard Colors, Add</i>	167.95	
		<i>For Anodized Finish, Add</i>	223.94	
		<i>For Kynar® Standard Colors Finish, Add</i>	307.91	
08 91 19 00-0063	EA	36" Wide x 18" High Fixed Intake Louver, Galvanized Aluminum.....	905.57	84.48
		Note: Includes bird screen. Excludes actuator.		
		<i>For Flange Frame, Add</i>	73.66	
		<i>For Clear Lacquer Finish, Add</i>	147.33	
		<i>For Baked Enamel Standard Colors, Add</i>	220.99	
		<i>For Anodized Finish, Add</i>	294.65	
		<i>For Kynar® Standard Colors Finish, Add</i>	405.15	
08 91 19 00-0064	EA	36" Wide x 24" High Fixed Intake Louver, Galvanized Aluminum.....	1,046.47	96.00
		Note: Includes bird screen. Excludes actuator.		
		<i>For Flange Frame, Add</i>	85.45	
		<i>For Clear Lacquer Finish, Add</i>	170.90	
		<i>For Baked Enamel Standard Colors, Add</i>	256.35	
		<i>For Anodized Finish, Add</i>	341.80	
		<i>For Kynar® Standard Colors Finish, Add</i>	469.97	
08 91 19 00-0065	EA	36" Wide x 30" High Fixed Intake Louver, Galvanized Aluminum.....	1,213.44	107.52
		Note: Includes bird screen. Excludes actuator.		
		<i>For Flange Frame, Add</i>	99.84	
		<i>For Clear Lacquer Finish, Add</i>	199.68	
		<i>For Baked Enamel Standard Colors, Add</i>	299.53	
		<i>For Anodized Finish, Add</i>	399.37	
		<i>For Kynar® Standard Colors Finish, Add</i>	549.13	
08 91 19 00-0066	EA	36" Wide x 36" High Fixed Intake Louver, Galvanized Aluminum.....	1,399.61	116.72
		Note: Includes bird screen.		
		<i>For Flange Frame, Add</i>	116.62	
		<i>For Clear Lacquer Finish, Add</i>	233.23	
		<i>For Baked Enamel Standard Colors, Add</i>	349.85	
		<i>For Anodized Finish, Add</i>	466.46	
		<i>For Kynar® Standard Colors Finish, Add</i>	641.38	
08 91 19 00-0067	EA	36" Wide x 42" High Fixed Intake Louver, Galvanized Aluminum.....	1,545.36	126.70
		Note: Includes bird screen.		
		<i>For Flange Frame, Add</i>	129.19	
		<i>For Clear Lacquer Finish, Add</i>	258.39	
		<i>For Baked Enamel Standard Colors, Add</i>	387.58	
		<i>For Anodized Finish, Add</i>	516.78	
		<i>For Kynar® Standard Colors Finish, Add</i>	710.57	
08 91 19 00-0068	EA	36" Wide x 48" High Fixed Intake Louver, Galvanized Aluminum.....	1,670.65	134.38
		Note: Includes bird screen.		
		<i>For Flange Frame, Add</i>	140.19	
		<i>For Clear Lacquer Finish, Add</i>	280.37	
		<i>For Baked Enamel Standard Colors, Add</i>	420.56	
		<i>For Anodized Finish, Add</i>	560.75	
		<i>For Kynar® Standard Colors Finish, Add</i>	771.03	
08 91 19 00-0069	EA	36" Wide x 54" High Fixed Intake Louver, Galvanized Aluminum.....	1,838.75	145.90
		Note: Includes bird screen.		
		<i>For Flange Frame, Add</i>	154.69	
		<i>For Clear Lacquer Finish, Add</i>	309.39	
		<i>For Baked Enamel Standard Colors, Add</i>	464.08	
		<i>For Anodized Finish, Add</i>	618.77	
		<i>For Kynar® Standard Colors Finish, Add</i>	850.81	
08 91 19 00-0070	EA	36" Wide x 60" High Fixed Intake Louver, Galvanized Aluminum.....	1,967.18	157.42
		Note: Includes bird screen.		
		<i>For Flange Frame, Add</i>	165.23	
		<i>For Clear Lacquer Finish, Add</i>	330.46	
		<i>For Baked Enamel Standard Colors, Add</i>	495.70	
		<i>For Anodized Finish, Add</i>	660.93	
		<i>For Kynar® Standard Colors Finish, Add</i>	908.78	



	Openings	08
	Louvers and Vents	08 90
	Louvers	08 91

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91	19 00-0071	EA	36" Wide x 66" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	2,168.15 183.03 366.05 549.08 732.10 1,006.64	168.94
08 91	19 00-0072	EA	36" Wide x 72" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	2,302.23 194.13 388.26 582.39 776.52 1,067.72	180.46
08 91	19 00-0073	EA	36" Wide x 78" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	2,445.65 206.94 413.87 620.81 827.75 1,138.15	188.14
08 91	19 00-0074	EA	36" Wide x 84" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	2,594.74 220.31 440.62 660.93 881.24 1,211.71	195.82
08 91	19 00-0075	EA	36" Wide x 90" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	2,724.30 230.96 461.92 692.89 923.85 1,270.29	207.34
08 91	19 00-0076	EA	36" Wide x 96" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	2,924.14 248.64 497.28 745.93 994.57 1,367.53	218.86
08 91	19 00-0077	EA	42" Wide x 12" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	802.07 65.62 131.23 196.85 262.47 360.89	72.96
08 91	19 00-0078	EA	42" Wide x 18" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	984.40 80.01 160.02 240.03 320.04 440.06	92.16
08 91	19 00-0079	EA	42" Wide x 24" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	1,140.03 93.27 186.54 279.81 373.08 512.98	103.68
08 91	19 00-0080	EA	42" Wide x 30" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	1,332.81 109.48 218.95 328.43 437.90 602.11	119.02
08 91	19 00-0081	EA	42" Wide x 36" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	1,534.03 128.06 256.12 384.18 512.24 704.34	126.70
08 91	19 00-0082	EA	42" Wide x 42" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	1,695.58 142.68 285.36 428.04 570.72 784.74	134.38

08	Openings
08 90	Louvers and Vents
08 91	Louvers



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 19 00-0083 EA 42" Wide x 48" High Fixed Intake Louver, Galvanized Aluminum.....	1,835.60	142.06
Note: Includes bird screen.		
For Flange Frame, Add	155.15	
For Clear Lacquer Finish, Add	310.29	
For Baked Enamel Standard Colors, Add	465.44	
For Anodized Finish, Add	620.58	
For Kynar® Standard Colors Finish, Add	853.30	
08 91 19 00-0084 EA 42" Wide x 54" High Fixed Intake Louver, Galvanized Aluminum.....	2,003.70	153.58
Note: Includes bird screen.		
For Flange Frame, Add	169.65	
For Clear Lacquer Finish, Add	339.30	
For Baked Enamel Standard Colors, Add	508.96	
For Anodized Finish, Add	678.61	
For Kynar® Standard Colors Finish, Add	933.09	
08 91 19 00-0085 EA 42" Wide x 60" High Fixed Intake Louver, Galvanized Aluminum.....	2,148.00	165.10
Note: Includes bird screen.		
For Flange Frame, Add	181.78	
For Clear Lacquer Finish, Add	363.56	
For Baked Enamel Standard Colors, Add	545.33	
For Anodized Finish, Add	727.11	
For Kynar® Standard Colors Finish, Add	999.78	
08 91 19 00-0086 EA 42" Wide x 66" High Fixed Intake Louver, Galvanized Aluminum.....	2,370.48	176.62
Note: Includes bird screen.		
For Flange Frame, Add	201.72	
For Clear Lacquer Finish, Add	403.45	
For Baked Enamel Standard Colors, Add	605.17	
For Anodized Finish, Add	806.90	
For Kynar® Standard Colors Finish, Add	1,109.48	
08 91 19 00-0087 EA 42" Wide x 72" High Fixed Intake Louver, Galvanized Aluminum.....	2,514.78	188.14
Note: Includes bird screen.		
For Flange Frame, Add	213.85	
For Clear Lacquer Finish, Add	427.70	
For Baked Enamel Standard Colors, Add	641.55	
For Anodized Finish, Add	855.40	
For Kynar® Standard Colors Finish, Add	1,176.18	
08 91 19 00-0088 EA 42" Wide x 78" High Fixed Intake Louver, Galvanized Aluminum.....	2,676.33	195.82
Note: Includes bird screen.		
For Flange Frame, Add	228.47	
For Clear Lacquer Finish, Add	456.94	
For Baked Enamel Standard Colors, Add	685.41	
For Anodized Finish, Add	913.88	
For Kynar® Standard Colors Finish, Add	1,256.58	
08 91 19 00-0089 EA 42" Wide x 84" High Fixed Intake Louver, Galvanized Aluminum.....	2,839.02	203.50
Note: Includes bird screen.		
For Flange Frame, Add	243.20	
For Clear Lacquer Finish, Add	486.40	
For Baked Enamel Standard Colors, Add	729.61	
For Anodized Finish, Add	972.81	
For Kynar® Standard Colors Finish, Add	1,337.61	
08 91 19 00-0090 EA 42" Wide x 90" High Fixed Intake Louver, Galvanized Aluminum.....	2,991.25	215.02
Note: Includes bird screen.		
For Flange Frame, Add	256.12	
For Clear Lacquer Finish, Add	512.24	
For Baked Enamel Standard Colors, Add	768.36	
For Anodized Finish, Add	1,024.48	
For Kynar® Standard Colors Finish, Add	1,408.67	
08 91 19 00-0091 EA 42" Wide x 96" High Fixed Intake Louver, Galvanized Aluminum.....	3,205.82	226.54
Note: Includes bird screen.		
For Flange Frame, Add	275.27	
For Clear Lacquer Finish, Add	550.55	
For Baked Enamel Standard Colors, Add	825.82	
For Anodized Finish, Add	1,101.10	
For Kynar® Standard Colors Finish, Add	1,514.01	
08 91 19 00-0092 EA 48" Wide x 12" High Fixed Intake Louver, Galvanized Aluminum.....	877.49	80.64
Note: Includes bird screen.		
For Flange Frame, Add	71.62	
For Clear Lacquer Finish, Add	143.25	
For Baked Enamel Standard Colors, Add	214.87	
For Anodized Finish, Add	286.49	
For Kynar® Standard Colors Finish, Add	393.93	
08 91 19 00-0093 EA 48" Wide x 18" High Fixed Intake Louver, Galvanized Aluminum.....	1,075.69	99.84
Note: Includes bird screen.		
For Flange Frame, Add	87.60	
For Clear Lacquer Finish, Add	175.21	
For Baked Enamel Standard Colors, Add	262.81	
For Anodized Finish, Add	350.41	
For Kynar® Standard Colors Finish, Add	481.82	
08 91 19 00-0094 EA 48" Wide x 24" High Fixed Intake Louver, Galvanized Aluminum.....	1,259.40	115.20
Note: Includes bird screen.		
For Flange Frame, Add	102.90	
For Clear Lacquer Finish, Add	205.80	
For Baked Enamel Standard Colors, Add	308.71	
For Anodized Finish, Add	411.61	
For Kynar® Standard Colors Finish, Add	565.96	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 19 00-0095 EA 48" Wide x 30" High Fixed Intake Louver, Galvanized Aluminum.....	1,447.90	126.70
Note: Includes bird screen.		
<i>For Flange Frame, Add</i>	119.45	
<i>For Clear Lacquer Finish, Add</i>	238.90	
<i>For Baked Enamel Standard Colors, Add</i>	358.34	
<i>For Anodized Finish, Add</i>	477.79	
<i>For Kynar® Standard Colors Finish, Add</i>	656.96	
08 91 19 00-0096 EA 48" Wide x 36" High Fixed Intake Louver, Galvanized Aluminum.....	1,677.45	134.38
Note: Includes bird screen.		
<i>For Flange Frame, Add</i>	140.87	
<i>For Clear Lacquer Finish, Add</i>	281.73	
<i>For Baked Enamel Standard Colors, Add</i>	422.60	
<i>For Anodized Finish, Add</i>	563.47	
<i>For Kynar® Standard Colors Finish, Add</i>	774.77	
08 91 19 00-0097 EA 48" Wide x 42" High Fixed Intake Louver, Galvanized Aluminum.....	1,863.93	142.06
Note: Includes bird screen.		
<i>For Flange Frame, Add</i>	157.98	
<i>For Clear Lacquer Finish, Add</i>	315.96	
<i>For Baked Enamel Standard Colors, Add</i>	473.94	
<i>For Anodized Finish, Add</i>	631.92	
<i>For Kynar® Standard Colors Finish, Add</i>	868.88	
08 91 19 00-0098 EA 48" Wide x 48" High Fixed Intake Louver, Galvanized Aluminum.....	2,019.57	153.58
Note: Includes bird screen.		
<i>For Flange Frame, Add</i>	171.24	
<i>For Clear Lacquer Finish, Add</i>	342.48	
<i>For Baked Enamel Standard Colors, Add</i>	513.72	
<i>For Anodized Finish, Add</i>	684.96	
<i>For Kynar® Standard Colors Finish, Add</i>	941.81	
08 91 19 00-0099 EA 48" Wide x 54" High Fixed Intake Louver, Galvanized Aluminum.....	2,262.46	165.10
Note: Includes bird screen.		
<i>For Flange Frame, Add</i>	193.22	
<i>For Clear Lacquer Finish, Add</i>	386.45	
<i>For Baked Enamel Standard Colors, Add</i>	579.67	
<i>For Anodized Finish, Add</i>	772.90	
<i>For Kynar® Standard Colors Finish, Add</i>	1,062.73	
08 91 19 00-0100 EA 48" Wide x 60" High Fixed Intake Louver, Galvanized Aluminum.....	2,370.48	176.62
Note: Includes bird screen.		
<i>For Flange Frame, Add</i>	201.72	
<i>For Clear Lacquer Finish, Add</i>	403.45	
<i>For Baked Enamel Standard Colors, Add</i>	605.17	
<i>For Anodized Finish, Add</i>	806.90	
<i>For Kynar® Standard Colors Finish, Add</i>	1,109.48	
08 91 19 00-0101 EA 48" Wide x 66" High Fixed Intake Louver, Galvanized Aluminum.....	2,607.71	188.14
Note: Includes bird screen.		
<i>For Flange Frame, Add</i>	223.14	
<i>For Clear Lacquer Finish, Add</i>	446.29	
<i>For Baked Enamel Standard Colors, Add</i>	669.43	
<i>For Anodized Finish, Add</i>	892.57	
<i>For Kynar® Standard Colors Finish, Add</i>	1,227.29	
08 91 19 00-0102 EA 48" Wide x 72" High Fixed Intake Louver, Galvanized Aluminum.....	2,773.54	199.66
Note: Includes bird screen.		
<i>For Flange Frame, Add</i>	237.42	
<i>For Clear Lacquer Finish, Add</i>	474.84	
<i>For Baked Enamel Standard Colors, Add</i>	712.27	
<i>For Anodized Finish, Add</i>	949.69	
<i>For Kynar® Standard Colors Finish, Add</i>	1,305.82	
08 91 19 00-0103 EA 48" Wide x 78" High Fixed Intake Louver, Galvanized Aluminum.....	2,953.23	207.34
Note: Includes bird screen.		
<i>For Flange Frame, Add</i>	253.86	
<i>For Clear Lacquer Finish, Add</i>	507.71	
<i>For Baked Enamel Standard Colors, Add</i>	761.57	
<i>For Anodized Finish, Add</i>	1,015.42	
<i>For Kynar® Standard Colors Finish, Add</i>	1,396.20	
08 91 19 00-0104 EA 48" Wide x 84" High Fixed Intake Louver, Galvanized Aluminum.....	3,132.91	215.02
Note: Includes bird screen.		
<i>For Flange Frame, Add</i>	270.29	
<i>For Clear Lacquer Finish, Add</i>	540.57	
<i>For Baked Enamel Standard Colors, Add</i>	810.86	
<i>For Anodized Finish, Add</i>	1,081.15	
<i>For Kynar® Standard Colors Finish, Add</i>	1,486.58	
08 91 19 00-0105 EA 48" Wide x 90" High Fixed Intake Louver, Galvanized Aluminum.....	3,283.13	222.70
Note: Includes bird screen.		
<i>For Flange Frame, Add</i>	283.77	
<i>For Clear Lacquer Finish, Add</i>	567.55	
<i>For Baked Enamel Standard Colors, Add</i>	851.32	
<i>For Anodized Finish, Add</i>	1,135.09	
<i>For Kynar® Standard Colors Finish, Add</i>	1,560.75	
08 91 19 00-0106 EA 48" Wide x 96" High Fixed Intake Louver, Galvanized Aluminum.....	3,529.43	234.22
Note: Includes bird screen.		
<i>For Flange Frame, Add</i>	306.10	
<i>For Clear Lacquer Finish, Add</i>	612.20	
<i>For Baked Enamel Standard Colors, Add</i>	918.30	
<i>For Anodized Finish, Add</i>	1,224.40	
<i>For Kynar® Standard Colors Finish, Add</i>	1,683.54	

08	Openings
08 90	Louvers and Vents
08 91	Louvers



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91	19 00-0107	EA	54" Wide x 12" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	973.06 78.88 157.75 236.63 315.50 433.82	92.16
08 91	19 00-0108	EA	54" Wide x 18" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	1,193.92 97.12 194.24 291.37 388.49 534.17	111.36
08 91	19 00-0109	EA	54" Wide x 24" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	1,397.78 113.67 227.34 341.00 454.67 625.17	130.54
08 91	19 00-0110	EA	54" Wide x 30" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	1,597.86 132.14 264.28 396.42 528.56 726.77	138.22
08 91	19 00-0111	EA	54" Wide x 36" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	1,871.61 157.98 315.96 473.94 631.92 868.88	145.90
08 91	19 00-0112	EA	54" Wide x 42" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	2,062.63 175.55 351.09 526.64 702.18 965.50	153.58
08 91	19 00-0113	EA	54" Wide x 48" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	2,244.33 191.41 382.82 574.23 765.64 1,052.76	165.10
08 91	19 00-0114	EA	54" Wide x 54" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	2,508.74 215.55 431.10 646.65 862.20 1,185.53	176.62
08 91	19 00-0115	EA	54" Wide x 60" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	2,696.10 231.98 463.96 695.95 927.93 1,275.90	188.14
08 91	19 00-0116	EA	54" Wide x 66" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	2,973.00 257.37 514.74 772.10 1,029.47 1,415.52	199.66
08 91	19 00-0117	EA	54" Wide x 72" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	3,151.55 273.69 547.37 821.06 1,094.75 1,505.28	207.34
08 91	19 00-0118	EA	54" Wide x 78" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	3,355.04 292.50 585.00 877.50 1,170.00 1,608.75	215.02



Openings	08
Louvers and Vents	08 90
Louvers	08 91

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91	19 00-0119	EA	54" Wide x 84" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	3,550.59 310.52 621.04 931.56 1,242.08 1,707.85	222.70
08 91	19 00-0120	EA	54" Wide x 90" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	3,713.27 325.25 650.50 975.75 1,301.00 1,788.88	230.38
08 91	19 00-0121	EA	54" Wide x 96" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	3,999.23 351.54 703.09 1,054.63 1,406.17 1,933.49	241.90
08 91	19 00-0122	EA	60" Wide x 12" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	1,046.22 84.66 169.31 253.97 338.62 465.61	99.84
08 91	19 00-0123	EA	60" Wide x 18" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	1,290.62 104.49 208.98 313.46 417.95 574.68	122.86
08 91	19 00-0124	EA	60" Wide x 24" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	1,498.14 122.17 244.34 366.50 488.67 671.92	138.22
08 91	19 00-0125	EA	60" Wide x 30" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	1,728.82 143.70 287.40 431.10 574.80 790.35	145.90
08 91	19 00-0126	EA	60" Wide x 36" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	2,015.91 170.11 340.21 510.32 680.42 935.58	157.42
08 91	19 00-0127	EA	60" Wide x 42" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	2,229.60 189.94 379.88 569.81 759.75 1,044.66	165.10
08 91	19 00-0128	EA	60" Wide x 48" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	2,419.21 206.60 413.19 619.79 826.39 1,136.28	176.62
08 91	19 00-0129	EA	60" Wide x 54" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	2,701.77 232.55 465.10 697.65 930.20 1,279.02	188.14
08 91	19 00-0130	EA	60" Wide x 60" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	2,902.74 250.34 500.68 751.03 1,001.37 1,376.88	199.66

08	Openings
08 90	Louvers and Vents
08 91	Louvers



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 19 00-0131 EA 60" Wide x 66" High Fixed Intake Louver, Galvanized Aluminum.....	3,202.30	211.18
Note: Includes bird screen.		
For Flange Frame, Add	277.99	
For Clear Lacquer Finish, Add	555.99	
For Baked Enamel Standard Colors, Add	833.98	
For Anodized Finish, Add	1,111.98	
For Kynar® Standard Colors Finish, Add	1,528.97	
08 91 19 00-0132 EA 60" Wide x 72" High Fixed Intake Louver, Galvanized Aluminum.....	3,392.18	218.86
Note: Includes bird screen.		
For Flange Frame, Add	295.45	
For Clear Lacquer Finish, Add	590.89	
For Baked Enamel Standard Colors, Add	886.34	
For Anodized Finish, Add	1,181.78	
For Kynar® Standard Colors Finish, Add	1,624.95	
08 91 19 00-0133 EA 60" Wide x 78" High Fixed Intake Louver, Galvanized Aluminum.....	3,608.13	226.54
Note: Includes bird screen.		
For Flange Frame, Add	315.51	
For Clear Lacquer Finish, Add	631.01	
For Baked Enamel Standard Colors, Add	946.52	
For Anodized Finish, Add	1,262.02	
For Kynar® Standard Colors Finish, Add	1,735.28	
08 91 19 00-0134 EA 60" Wide x 84" High Fixed Intake Louver, Galvanized Aluminum.....	3,819.55	234.22
Note: Includes bird screen.		
For Flange Frame, Add	335.11	
For Clear Lacquer Finish, Add	670.22	
For Baked Enamel Standard Colors, Add	1,005.33	
For Anodized Finish, Add	1,340.44	
For Kynar® Standard Colors Finish, Add	1,843.11	
08 91 19 00-0135 EA 60" Wide x 90" High Fixed Intake Louver, Galvanized Aluminum.....	3,999.23	241.90
Note: Includes bird screen.		
For Flange Frame, Add	351.54	
For Clear Lacquer Finish, Add	703.09	
For Baked Enamel Standard Colors, Add	1,054.63	
For Anodized Finish, Add	1,406.17	
For Kynar® Standard Colors Finish, Add	1,933.49	
08 91 19 00-0136 EA 60" Wide x 96" High Fixed Intake Louver, Galvanized Aluminum.....	4,296.78	249.58
Note: Includes bird screen.		
For Flange Frame, Add	379.76	
For Clear Lacquer Finish, Add	759.52	
For Baked Enamel Standard Colors, Add	1,139.29	
For Anodized Finish, Add	1,519.05	
For Kynar® Standard Colors Finish, Add	2,088.69	
08 91 19 00-0137 EA 66" Wide x 12" High Fixed Intake Louver, Galvanized Aluminum.....	1,203.24	107.52
Note: Includes bird screen.		
For Flange Frame, Add	98.82	
For Clear Lacquer Finish, Add	197.64	
For Baked Enamel Standard Colors, Add	296.47	
For Anodized Finish, Add	395.29	
For Kynar® Standard Colors Finish, Add	543.52	
08 91 19 00-0138 EA 66" Wide x 18" High Fixed Intake Louver, Galvanized Aluminum.....	1,487.31	130.54
Note: Includes bird screen.		
For Flange Frame, Add	122.62	
For Clear Lacquer Finish, Add	245.24	
For Baked Enamel Standard Colors, Add	367.86	
For Anodized Finish, Add	490.48	
For Kynar® Standard Colors Finish, Add	674.42	
08 91 19 00-0139 EA 66" Wide x 24" High Fixed Intake Louver, Galvanized Aluminum.....	1,733.98	153.58
Note: Includes bird screen.		
For Flange Frame, Add	142.68	
For Clear Lacquer Finish, Add	285.36	
For Baked Enamel Standard Colors, Add	428.04	
For Anodized Finish, Add	570.72	
For Kynar® Standard Colors Finish, Add	784.74	
08 91 19 00-0140 EA 66" Wide x 30" High Fixed Intake Louver, Galvanized Aluminum.....	1,985.06	161.26
Note: Includes bird screen.		
For Flange Frame, Add	166.25	
For Clear Lacquer Finish, Add	332.50	
For Baked Enamel Standard Colors, Add	498.76	
For Anodized Finish, Add	665.01	
For Kynar® Standard Colors Finish, Add	914.39	
08 91 19 00-0141 EA 66" Wide x 36" High Fixed Intake Louver, Galvanized Aluminum.....	2,317.74	168.94
Note: Includes bird screen.		
For Flange Frame, Add	197.98	
For Clear Lacquer Finish, Add	395.97	
For Baked Enamel Standard Colors, Add	593.95	
For Anodized Finish, Add	791.94	
For Kynar® Standard Colors Finish, Add	1,088.91	
08 91 19 00-0142 EA 66" Wide x 42" High Fixed Intake Louver, Galvanized Aluminum.....	2,550.67	176.62
Note: Includes bird screen.		
For Flange Frame, Add	219.74	
For Clear Lacquer Finish, Add	439.49	
For Baked Enamel Standard Colors, Add	659.23	
For Anodized Finish, Add	878.97	
For Kynar® Standard Colors Finish, Add	1,208.59	



Openings	08
Louvers and Vents	08 90
Louvers	08 91

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91	19 00-0143	EA	66" Wide x 48" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	2,776.57	188.14
			<i>For Flange Frame, Add</i>	240.03	
			<i>For Clear Lacquer Finish, Add</i>	480.06	
			<i>For Baked Enamel Standard Colors, Add</i>	720.09	
			<i>For Anodized Finish, Add</i>	960.12	
			<i>For Kynar® Standard Colors Finish, Add</i>	1,320.16	
08 91	19 00-0144	EA	66" Wide x 54" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	3,041.00	199.66
			<i>For Flange Frame, Add</i>	264.17	
			<i>For Clear Lacquer Finish, Add</i>	528.34	
			<i>For Baked Enamel Standard Colors, Add</i>	792.50	
			<i>For Anodized Finish, Add</i>	1,056.67	
			<i>For Kynar® Standard Colors Finish, Add</i>	1,452.92	
08 91	19 00-0145	EA	66" Wide x 60" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	3,265.76	211.18
			<i>For Flange Frame, Add</i>	284.34	
			<i>For Clear Lacquer Finish, Add</i>	568.68	
			<i>For Baked Enamel Standard Colors, Add</i>	853.02	
			<i>For Anodized Finish, Add</i>	1,137.36	
			<i>For Kynar® Standard Colors Finish, Add</i>	1,563.87	
08 91	19 00-0146	EA	66" Wide x 66" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	3,610.40	226.54
			<i>For Flange Frame, Add</i>	315.73	
			<i>For Clear Lacquer Finish, Add</i>	631.46	
			<i>For Baked Enamel Standard Colors, Add</i>	947.20	
			<i>For Anodized Finish, Add</i>	1,262.93	
			<i>For Kynar® Standard Colors Finish, Add</i>	1,736.53	
08 91	19 00-0147	EA	66" Wide x 72" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	3,827.23	238.06
			<i>For Flange Frame, Add</i>	335.11	
			<i>For Clear Lacquer Finish, Add</i>	670.22	
			<i>For Baked Enamel Standard Colors, Add</i>	1,005.33	
			<i>For Anodized Finish, Add</i>	1,340.44	
			<i>For Kynar® Standard Colors Finish, Add</i>	1,843.11	
08 91	19 00-0148	EA	66" Wide x 78" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	4,055.65	245.74
			<i>For Flange Frame, Add</i>	356.42	
			<i>For Clear Lacquer Finish, Add</i>	712.83	
			<i>For Baked Enamel Standard Colors, Add</i>	1,069.25	
			<i>For Anodized Finish, Add</i>	1,425.67	
			<i>For Kynar® Standard Colors Finish, Add</i>	1,960.29	
08 91	19 00-0149	EA	66" Wide x 84" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	4,288.60	253.42
			<i>For Flange Frame, Add</i>	378.18	
			<i>For Clear Lacquer Finish, Add</i>	756.35	
			<i>For Baked Enamel Standard Colors, Add</i>	1,134.53	
			<i>For Anodized Finish, Add</i>	1,512.70	
			<i>For Kynar® Standard Colors Finish, Add</i>	2,079.97	
08 91	19 00-0150	EA	66" Wide x 90" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	4,490.95	261.10
			<i>For Flange Frame, Add</i>	396.88	
			<i>For Clear Lacquer Finish, Add</i>	793.75	
			<i>For Baked Enamel Standard Colors, Add</i>	1,190.63	
			<i>For Anodized Finish, Add</i>	1,587.50	
			<i>For Kynar® Standard Colors Finish, Add</i>	2,182.81	
08 91	19 00-0151	EA	66" Wide x 96" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	4,822.49	268.78
			<i>For Flange Frame, Add</i>	428.49	
			<i>For Clear Lacquer Finish, Add</i>	856.99	
			<i>For Baked Enamel Standard Colors, Add</i>	1,285.48	
			<i>For Anodized Finish, Add</i>	1,713.97	
			<i>For Kynar® Standard Colors Finish, Add</i>	2,356.71	
08 91	19 00-0152	EA	72" Wide x 12" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	1,270.73	115.20
			<i>For Flange Frame, Add</i>	104.04	
			<i>For Clear Lacquer Finish, Add</i>	208.07	
			<i>For Baked Enamel Standard Colors, Add</i>	312.11	
			<i>For Anodized Finish, Add</i>	416.14	
			<i>For Kynar® Standard Colors Finish, Add</i>	572.19	
08 91	19 00-0153	EA	72" Wide x 18" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	1,568.40	138.22
			<i>For Flange Frame, Add</i>	129.19	
			<i>For Clear Lacquer Finish, Add</i>	258.39	
			<i>For Baked Enamel Standard Colors, Add</i>	387.58	
			<i>For Anodized Finish, Add</i>	516.78	
			<i>For Kynar® Standard Colors Finish, Add</i>	710.57	
08 91	19 00-0154	EA	72" Wide x 24" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	1,827.54	161.26
			<i>For Flange Frame, Add</i>	150.50	
			<i>For Clear Lacquer Finish, Add</i>	301.00	
			<i>For Baked Enamel Standard Colors, Add</i>	451.50	
			<i>For Anodized Finish, Add</i>	602.00	
			<i>For Kynar® Standard Colors Finish, Add</i>	827.75	

08	Openings
08 90	Louvers and Vents
08 91	Louvers



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91	19 00-0155	EA	72" Wide x 30" High Fixed Intake Louver, Galvanized Aluminum.....	2,101.01	172.78
			Note: Includes bird screen.		
			For Flange Frame, Add	175.55	
			For Clear Lacquer Finish, Add	351.09	
			For Baked Enamel Standard Colors, Add	526.64	
			For Anodized Finish, Add	702.18	
			For Kynar® Standard Colors Finish, Add	965.50	
08 91	19 00-0156	EA	72" Wide x 36" High Fixed Intake Louver, Galvanized Aluminum.....	2,457.49	180.46
			Note: Includes bird screen.		
			For Flange Frame, Add	209.66	
			For Clear Lacquer Finish, Add	419.31	
			For Baked Enamel Standard Colors, Add	628.97	
			For Anodized Finish, Add	838.63	
			For Kynar® Standard Colors Finish, Add	1,153.11	
08 91	19 00-0157	EA	72" Wide x 42" High Fixed Intake Louver, Galvanized Aluminum.....	2,702.90	188.14
			Note: Includes bird screen.		
			For Flange Frame, Add	232.66	
			For Clear Lacquer Finish, Add	465.32	
			For Baked Enamel Standard Colors, Add	697.99	
			For Anodized Finish, Add	930.65	
			For Kynar® Standard Colors Finish, Add	1,279.64	
08 91	19 00-0158	EA	72" Wide x 48" High Fixed Intake Louver, Galvanized Aluminum.....	2,943.53	199.66
			Note: Includes bird screen.		
			For Flange Frame, Add	254.42	
			For Clear Lacquer Finish, Add	508.84	
			For Baked Enamel Standard Colors, Add	763.26	
			For Anodized Finish, Add	1,017.68	
			For Kynar® Standard Colors Finish, Add	1,399.32	
08 91	19 00-0159	EA	72" Wide x 54" High Fixed Intake Louver, Galvanized Aluminum.....	3,215.01	207.34
			Note: Includes bird screen.		
			For Flange Frame, Add	280.03	
			For Clear Lacquer Finish, Add	560.07	
			For Baked Enamel Standard Colors, Add	840.10	
			For Anodized Finish, Add	1,120.13	
			For Kynar® Standard Colors Finish, Add	1,540.18	
08 91	19 00-0160	EA	72" Wide x 60" High Fixed Intake Louver, Galvanized Aluminum.....	3,449.98	218.86
			Note: Includes bird screen.		
			For Flange Frame, Add	301.23	
			For Clear Lacquer Finish, Add	602.45	
			For Baked Enamel Standard Colors, Add	903.68	
			For Anodized Finish, Add	1,204.90	
			For Kynar® Standard Colors Finish, Add	1,656.74	
08 91	19 00-0161	EA	72" Wide x 66" High Fixed Intake Louver, Galvanized Aluminum.....	3,827.23	238.06
			Note: Includes bird screen.		
			For Flange Frame, Add	335.11	
			For Clear Lacquer Finish, Add	670.22	
			For Baked Enamel Standard Colors, Add	1,005.33	
			For Anodized Finish, Add	1,340.44	
			For Kynar® Standard Colors Finish, Add	1,843.11	
08 91	19 00-0162	EA	72" Wide x 72" High Fixed Intake Louver, Galvanized Aluminum.....	4,065.59	249.58
			Note: Includes bird screen.		
			For Flange Frame, Add	356.64	
			For Clear Lacquer Finish, Add	713.29	
			For Baked Enamel Standard Colors, Add	1,069.93	
			For Anodized Finish, Add	1,426.57	
			For Kynar® Standard Colors Finish, Add	1,961.54	
08 91	19 00-0163	EA	72" Wide x 78" High Fixed Intake Louver, Galvanized Aluminum.....	4,300.81	257.26
			Note: Includes bird screen.		
			For Flange Frame, Add	378.63	
			For Clear Lacquer Finish, Add	757.26	
			For Baked Enamel Standard Colors, Add	1,135.89	
			For Anodized Finish, Add	1,514.52	
			For Kynar® Standard Colors Finish, Add	2,082.46	
08 91	19 00-0164	EA	72" Wide x 84" High Fixed Intake Louver, Galvanized Aluminum.....	4,539.42	264.94
			Note: Includes bird screen.		
			For Flange Frame, Add	400.95	
			For Clear Lacquer Finish, Add	801.91	
			For Baked Enamel Standard Colors, Add	1,202.86	
			For Anodized Finish, Add	1,603.82	
			For Kynar® Standard Colors Finish, Add	2,205.25	
08 91	19 00-0165	EA	72" Wide x 90" High Fixed Intake Louver, Galvanized Aluminum.....	4,763.31	272.62
			Note: Includes bird screen.		
			For Flange Frame, Add	421.81	
			For Clear Lacquer Finish, Add	843.61	
			For Baked Enamel Standard Colors, Add	1,265.42	
			For Anodized Finish, Add	1,687.23	
			For Kynar® Standard Colors Finish, Add	2,319.94	
08 91	19 00-0166	EA	72" Wide x 96" High Fixed Intake Louver, Galvanized Aluminum.....	5,116.39	280.30
			Note: Includes bird screen.		
			For Flange Frame, Add	455.58	
			For Clear Lacquer Finish, Add	911.16	
			For Baked Enamel Standard Colors, Add	1,366.74	
			For Anodized Finish, Add	1,822.32	
			For Kynar® Standard Colors Finish, Add	2,505.68	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 19 00-0167 EA 78" Wide x 12" High Fixed Intake Louver, Galvanized Aluminum.....	1,351.82	122.86
Note: Includes bird screen.		
<i>For Flange Frame, Add</i>	110.61	
<i>For Clear Lacquer Finish, Add</i>	221.22	
<i>For Baked Enamel Standard Colors, Add</i>	331.82	
<i>For Anodized Finish, Add</i>	442.43	
<i>For Kynar® Standard Colors Finish, Add</i>	608.34	
08 91 19 00-0168 EA 78" Wide x 18" High Fixed Intake Louver, Galvanized Aluminum.....	1,657.42	145.90
Note: Includes bird screen.		
<i>For Flange Frame, Add</i>	136.56	
<i>For Clear Lacquer Finish, Add</i>	273.12	
<i>For Baked Enamel Standard Colors, Add</i>	409.68	
<i>For Anodized Finish, Add</i>	546.24	
<i>For Kynar® Standard Colors Finish, Add</i>	751.08	
08 91 19 00-0169 EA 78" Wide x 24" High Fixed Intake Louver, Galvanized Aluminum.....	1,922.23	168.94
Note: Includes bird screen.		
<i>For Flange Frame, Add</i>	158.43	
<i>For Clear Lacquer Finish, Add</i>	316.87	
<i>For Baked Enamel Standard Colors, Add</i>	475.30	
<i>For Anodized Finish, Add</i>	633.73	
<i>For Kynar® Standard Colors Finish, Add</i>	871.38	
08 91 19 00-0170 EA 78" Wide x 30" High Fixed Intake Louver, Galvanized Aluminum.....	2,213.83	180.46
Note: Includes bird screen.		
<i>For Flange Frame, Add</i>	185.29	
<i>For Clear Lacquer Finish, Add</i>	370.58	
<i>For Baked Enamel Standard Colors, Add</i>	555.87	
<i>For Anodized Finish, Add</i>	741.16	
<i>For Kynar® Standard Colors Finish, Add</i>	1,019.10	
08 91 19 00-0171 EA 78" Wide x 36" High Fixed Intake Louver, Galvanized Aluminum.....	2,590.71	188.14
Note: Includes bird screen.		
<i>For Flange Frame, Add</i>	221.44	
<i>For Clear Lacquer Finish, Add</i>	442.89	
<i>For Baked Enamel Standard Colors, Add</i>	664.33	
<i>For Anodized Finish, Add</i>	885.77	
<i>For Kynar® Standard Colors Finish, Add</i>	1,217.94	
08 91 19 00-0172 EA 78" Wide x 42" High Fixed Intake Louver, Galvanized Aluminum.....	2,846.32	195.82
Note: Includes bird screen.		
<i>For Flange Frame, Add</i>	245.47	
<i>For Clear Lacquer Finish, Add</i>	490.94	
<i>For Baked Enamel Standard Colors, Add</i>	736.40	
<i>For Anodized Finish, Add</i>	981.87	
<i>For Kynar® Standard Colors Finish, Add</i>	1,350.07	
08 91 19 00-0173 EA 78" Wide x 48" High Fixed Intake Louver, Galvanized Aluminum.....	3,103.95	207.34
Note: Includes bird screen.		
<i>For Flange Frame, Add</i>	268.93	
<i>For Clear Lacquer Finish, Add</i>	537.85	
<i>For Baked Enamel Standard Colors, Add</i>	806.78	
<i>For Anodized Finish, Add</i>	1,075.71	
<i>For Kynar® Standard Colors Finish, Add</i>	1,479.10	
08 91 19 00-0174 EA 78" Wide x 54" High Fixed Intake Louver, Galvanized Aluminum.....	3,391.30	215.02
Note: Includes bird screen.		
<i>For Flange Frame, Add</i>	296.13	
<i>For Clear Lacquer Finish, Add</i>	592.25	
<i>For Baked Enamel Standard Colors, Add</i>	888.38	
<i>For Anodized Finish, Add</i>	1,184.50	
<i>For Kynar® Standard Colors Finish, Add</i>	1,628.69	
08 91 19 00-0175 EA 78" Wide x 60" High Fixed Intake Louver, Galvanized Aluminum.....	3,643.26	226.54
Note: Includes bird screen.		
<i>For Flange Frame, Add</i>	319.02	
<i>For Clear Lacquer Finish, Add</i>	638.04	
<i>For Baked Enamel Standard Colors, Add</i>	957.05	
<i>For Anodized Finish, Add</i>	1,276.07	
<i>For Kynar® Standard Colors Finish, Add</i>	1,754.60	
08 91 19 00-0176 EA 78" Wide x 66" High Fixed Intake Louver, Galvanized Aluminum.....	4,044.31	245.74
Note: Includes bird screen.		
<i>For Flange Frame, Add</i>	355.28	
<i>For Clear Lacquer Finish, Add</i>	710.57	
<i>For Baked Enamel Standard Colors, Add</i>	1,065.85	
<i>For Anodized Finish, Add</i>	1,421.13	
<i>For Kynar® Standard Colors Finish, Add</i>	1,954.06	
08 91 19 00-0177 EA 78" Wide x 72" High Fixed Intake Louver, Galvanized Aluminum.....	4,294.01	257.26
Note: Includes bird screen.		
<i>For Flange Frame, Add</i>	377.95	
<i>For Clear Lacquer Finish, Add</i>	755.90	
<i>For Baked Enamel Standard Colors, Add</i>	1,133.85	
<i>For Anodized Finish, Add</i>	1,511.80	
<i>For Kynar® Standard Colors Finish, Add</i>	2,078.72	
08 91 19 00-0178 EA 78" Wide x 78" High Fixed Intake Louver, Galvanized Aluminum.....	4,555.04	268.78
Note: Includes bird screen.		
<i>For Flange Frame, Add</i>	401.75	
<i>For Clear Lacquer Finish, Add</i>	803.50	
<i>For Baked Enamel Standard Colors, Add</i>	1,205.24	
<i>For Anodized Finish, Add</i>	1,606.99	
<i>For Kynar® Standard Colors Finish, Add</i>	2,209.61	

08	Openings
08 90	Louvers and Vents
08 91	Louvers



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91	19 00-0179	EA	78" Wide x 84" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	4,793.65	276.46
			<i>For Flange Frame, Add</i>	424.07	
			<i>For Clear Lacquer Finish, Add</i>	848.15	
			<i>For Baked Enamel Standard Colors, Add</i>	1,272.22	
			<i>For Anodized Finish, Add</i>	1,696.29	
			<i>For Kynar® Standard Colors Finish, Add</i>	2,332.40	
08 91	19 00-0180	EA	78" Wide x 90" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	5,032.27	284.14
			<i>For Flange Frame, Add</i>	446.40	
			<i>For Clear Lacquer Finish, Add</i>	892.80	
			<i>For Baked Enamel Standard Colors, Add</i>	1,339.20	
			<i>For Anodized Finish, Add</i>	1,785.60	
			<i>For Kynar® Standard Colors Finish, Add</i>	2,455.19	
08 91	19 00-0181	EA	78" Wide x 96" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	5,407.99	291.82
			<i>For Flange Frame, Add</i>	482.44	
			<i>For Clear Lacquer Finish, Add</i>	964.87	
			<i>For Baked Enamel Standard Colors, Add</i>	1,447.31	
			<i>For Anodized Finish, Add</i>	1,929.75	
			<i>For Kynar® Standard Colors Finish, Add</i>	2,653.40	
08 91	19 00-0182	EA	84" Wide x 12" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	1,418.18	130.54
			<i>For Flange Frame, Add</i>	115.71	
			<i>For Clear Lacquer Finish, Add</i>	231.42	
			<i>For Baked Enamel Standard Colors, Add</i>	347.12	
			<i>For Anodized Finish, Add</i>	462.83	
			<i>For Kynar® Standard Colors Finish, Add</i>	636.39	
08 91	19 00-0183	EA	84" Wide x 18" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	1,736.25	153.58
			<i>For Flange Frame, Add</i>	142.91	
			<i>For Clear Lacquer Finish, Add</i>	285.81	
			<i>For Baked Enamel Standard Colors, Add</i>	428.72	
			<i>For Anodized Finish, Add</i>	571.63	
			<i>For Kynar® Standard Colors Finish, Add</i>	785.99	
08 91	19 00-0184	EA	84" Wide x 24" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	2,028.23	176.62
			<i>For Flange Frame, Add</i>	167.50	
			<i>For Clear Lacquer Finish, Add</i>	335.00	
			<i>For Baked Enamel Standard Colors, Add</i>	502.50	
			<i>For Anodized Finish, Add</i>	670.00	
			<i>For Kynar® Standard Colors Finish, Add</i>	921.24	
08 91	19 00-0185	EA	84" Wide x 30" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	2,328.92	188.14
			<i>For Flange Frame, Add</i>	195.26	
			<i>For Clear Lacquer Finish, Add</i>	390.53	
			<i>For Baked Enamel Standard Colors, Add</i>	585.79	
			<i>For Anodized Finish, Add</i>	781.06	
			<i>For Kynar® Standard Colors Finish, Add</i>	1,073.95	
08 91	19 00-0186	EA	84" Wide x 36" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	2,729.60	195.82
			<i>For Flange Frame, Add</i>	233.80	
			<i>For Clear Lacquer Finish, Add</i>	467.59	
			<i>For Baked Enamel Standard Colors, Add</i>	701.39	
			<i>For Anodized Finish, Add</i>	935.18	
			<i>For Kynar® Standard Colors Finish, Add</i>	1,285.88	
08 91	19 00-0187	EA	84" Wide x 42" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	2,999.94	203.50
			<i>For Flange Frame, Add</i>	259.29	
			<i>For Clear Lacquer Finish, Add</i>	518.59	
			<i>For Baked Enamel Standard Colors, Add</i>	777.88	
			<i>For Anodized Finish, Add</i>	1,037.18	
			<i>For Kynar® Standard Colors Finish, Add</i>	1,426.12	
08 91	19 00-0188	EA	84" Wide x 48" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	3,263.24	215.02
			<i>For Flange Frame, Add</i>	283.32	
			<i>For Clear Lacquer Finish, Add</i>	566.64	
			<i>For Baked Enamel Standard Colors, Add</i>	849.96	
			<i>For Anodized Finish, Add</i>	1,133.28	
			<i>For Kynar® Standard Colors Finish, Add</i>	1,558.26	
08 91	19 00-0189	EA	84" Wide x 54" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	3,573.25	222.70
			<i>For Flange Frame, Add</i>	312.79	
			<i>For Clear Lacquer Finish, Add</i>	625.57	
			<i>For Baked Enamel Standard Colors, Add</i>	938.36	
			<i>For Anodized Finish, Add</i>	1,251.14	
			<i>For Kynar® Standard Colors Finish, Add</i>	1,720.32	
08 91	19 00-0190	EA	84" Wide x 60" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	3,837.68	234.22
			<i>For Flange Frame, Add</i>	336.92	
			<i>For Clear Lacquer Finish, Add</i>	673.85	
			<i>For Baked Enamel Standard Colors, Add</i>	1,010.77	
			<i>For Anodized Finish, Add</i>	1,347.70	
			<i>For Kynar® Standard Colors Finish, Add</i>	1,853.08	



Openings	08
Louvers and Vents	08 90
Louvers	08 91

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91	19 00-0191	EA	84" Wide x 66" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	4,262.53 375.57 751.14 1,126.71 1,502.28 2,065.63	253.42
08 91	19 00-0192	EA	84" Wide x 72" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	4,521.29 399.14 798.28 1,197.42 1,596.56 2,195.28	264.94
08 91	19 00-0193	EA	84" Wide x 78" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	4,804.99 425.21 850.41 1,275.62 1,700.83 2,338.64	276.46
08 91	19 00-0194	EA	84" Wide x 84" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	5,107.07 453.88 907.76 1,361.64 1,815.52 2,496.33	284.14
08 91	19 00-0195	EA	84" Wide x 90" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	5,379.66 479.60 959.21 1,438.81 1,918.42 2,637.82	291.82
08 91	19 00-0196	EA	84" Wide x 96" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	5,783.74 518.48 1,036.95 1,555.43 2,073.90 2,851.62	299.50
08 91	19 00-0197	EA	90" Wide x 12" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	1,505.82 122.17 244.34 366.50 488.67 671.92	142.06
08 91	19 00-0198	EA	90" Wide x 18" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	1,828.42 149.82 299.64 449.46 599.28 824.01	165.10
08 91	19 00-0199	EA	90" Wide x 24" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	2,131.73 175.55 351.09 526.64 702.18 965.50	188.14
08 91	19 00-0200	EA	90" Wide x 30" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	2,441.49 204.22 408.43 612.65 816.87 1,123.19	199.66
08 91	19 00-0201	EA	90" Wide x 36" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	2,869.36 245.47 490.94 736.40 981.87 1,350.07	207.34
08 91	19 00-0202	EA	90" Wide x 42" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	3,148.78 271.87 543.75 815.62 1,087.50 1,495.31	215.02

08	Openings
08 90	Louvers and Vents
08 91	Louvers



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 19 00-0203	EA	90" Wide x 48" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	3,415.73	222.70
		<i>For Flange Frame, Add</i>	297.03	
		<i>For Clear Lacquer Finish, Add</i>	594.07	
		<i>For Baked Enamel Standard Colors, Add</i>	891.10	
		<i>For Anodized Finish, Add</i>	1,188.13	
		<i>For Kynar® Standard Colors Finish, Add</i>	1,633.68	
08 91 19 00-0204	EA	90" Wide x 54" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	3,742.74	230.38
		<i>For Flange Frame, Add</i>	328.20	
		<i>For Clear Lacquer Finish, Add</i>	656.40	
		<i>For Baked Enamel Standard Colors, Add</i>	984.59	
		<i>For Anodized Finish, Add</i>	1,312.79	
		<i>For Kynar® Standard Colors Finish, Add</i>	1,805.09	
08 91 19 00-0205	EA	90" Wide x 60" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	4,020.77	241.90
		<i>For Flange Frame, Add</i>	353.70	
		<i>For Clear Lacquer Finish, Add</i>	707.39	
		<i>For Baked Enamel Standard Colors, Add</i>	1,061.09	
		<i>For Anodized Finish, Add</i>	1,414.79	
		<i>For Kynar® Standard Colors Finish, Add</i>	1,945.33	
08 91 19 00-0206	EA	90" Wide x 66" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	4,469.41	261.10
		<i>For Flange Frame, Add</i>	394.72	
		<i>For Clear Lacquer Finish, Add</i>	789.44	
		<i>For Baked Enamel Standard Colors, Add</i>	1,184.16	
		<i>For Anodized Finish, Add</i>	1,578.88	
		<i>For Kynar® Standard Colors Finish, Add</i>	2,170.97	
08 91 19 00-0207	EA	90" Wide x 72" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	4,739.51	272.62
		<i>For Flange Frame, Add</i>	419.43	
		<i>For Clear Lacquer Finish, Add</i>	838.85	
		<i>For Baked Enamel Standard Colors, Add</i>	1,258.28	
		<i>For Anodized Finish, Add</i>	1,677.71	
		<i>For Kynar® Standard Colors Finish, Add</i>	2,306.85	
08 91 19 00-0208	EA	90" Wide x 78" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	5,048.14	284.14
		<i>For Flange Frame, Add</i>	447.99	
		<i>For Clear Lacquer Finish, Add</i>	895.97	
		<i>For Baked Enamel Standard Colors, Add</i>	1,343.96	
		<i>For Anodized Finish, Add</i>	1,791.94	
		<i>For Kynar® Standard Colors Finish, Add</i>	2,463.92	
08 91 19 00-0209	EA	90" Wide x 84" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	5,368.33	291.82
		<i>For Flange Frame, Add</i>	478.47	
		<i>For Clear Lacquer Finish, Add</i>	956.94	
		<i>For Baked Enamel Standard Colors, Add</i>	1,435.41	
		<i>For Anodized Finish, Add</i>	1,913.88	
		<i>For Kynar® Standard Colors Finish, Add</i>	2,631.59	
08 91 19 00-0210	EA	90" Wide x 90" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	5,641.82	303.34
		<i>For Flange Frame, Add</i>	503.52	
		<i>For Clear Lacquer Finish, Add</i>	1,007.03	
		<i>For Baked Enamel Standard Colors, Add</i>	1,510.55	
		<i>For Anodized Finish, Add</i>	2,014.06	
		<i>For Kynar® Standard Colors Finish, Add</i>	2,769.34	
08 91 19 00-0211	EA	90" Wide x 96" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	6,069.70	311.02
		<i>For Flange Frame, Add</i>	544.77	
		<i>For Clear Lacquer Finish, Add</i>	1,089.54	
		<i>For Baked Enamel Standard Colors, Add</i>	1,634.30	
		<i>For Anodized Finish, Add</i>	2,179.07	
		<i>For Kynar® Standard Colors Finish, Add</i>	2,996.22	
08 91 19 00-0212	EA	96" Wide x 12" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	1,582.12	153.58
		<i>For Flange Frame, Add</i>	127.49	
		<i>For Clear Lacquer Finish, Add</i>	254.99	
		<i>For Baked Enamel Standard Colors, Add</i>	382.48	
		<i>For Anodized Finish, Add</i>	509.98	
		<i>For Kynar® Standard Colors Finish, Add</i>	701.22	
08 91 19 00-0213	EA	96" Wide x 18" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	1,916.03	176.62
		<i>For Flange Frame, Add</i>	156.28	
		<i>For Clear Lacquer Finish, Add</i>	312.56	
		<i>For Baked Enamel Standard Colors, Add</i>	468.84	
		<i>For Anodized Finish, Add</i>	625.12	
		<i>For Kynar® Standard Colors Finish, Add</i>	859.53	
08 91 19 00-0214	EA	96" Wide x 24" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	2,234.10	199.66
		<i>For Flange Frame, Add</i>	183.48	
		<i>For Clear Lacquer Finish, Add</i>	366.96	
		<i>For Baked Enamel Standard Colors, Add</i>	550.43	
		<i>For Anodized Finish, Add</i>	733.91	
		<i>For Kynar® Standard Colors Finish, Add</i>	1,009.13	



Openings	08
Louvers and Vents	08 90
Louvers	08 91

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91	19 00-0215	EA	96" Wide x 30" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	2,560.86 213.85 427.70 641.55 855.40 1,176.18	211.18
08 91	19 00-0216	EA	96" Wide x 36" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	3,002.33 256.46 512.92 769.38 1,025.84 1,410.54	218.86
08 91	19 00-0217	EA	96" Wide x 42" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	3,328.21 287.51 575.03 862.54 1,150.05 1,581.32	226.54
08 91	19 00-0218	EA	96" Wide x 48" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	3,612.16 314.37 628.74 943.12 1,257.49 1,729.05	234.22
08 91	19 00-0219	EA	96" Wide x 54" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	3,923.30 343.95 687.90 1,031.85 1,375.80 1,891.73	241.90
08 91	19 00-0220	EA	96" Wide x 60" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	4,211.79 371.26 742.53 1,113.79 1,485.05 2,041.95	249.58
08 91	19 00-0221	EA	96" Wide x 66" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	4,693.30 415.57 831.15 1,246.72 1,662.30 2,285.66	268.78
08 91	19 00-0222	EA	96" Wide x 72" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	3,753.05 319.25 638.49 957.74 1,276.98 1,755.85	280.30
08 91	19 00-0223	EA	96" Wide x 78" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	5,287.87 470.43 940.85 1,411.28 1,881.70 2,587.34	291.82
08 91	19 00-0224	EA	96" Wide x 84" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	5,619.41 502.04 1,004.09 1,506.13 2,008.17 2,761.24	299.50
08 91	19 00-0225	EA	96" Wide x 90" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	5,906.50 528.45 1,056.90 1,585.34 2,113.79 2,906.46	311.02
08 91	19 00-0226	EA	96" Wide x 96" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar® Standard Colors Finish, Add</i>	6,368.12 572.31 1,144.61 1,716.92 2,289.22 3,147.68	322.54

08 Openings**08 90 Louvers and Vents****08 91 Louvers**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 19 00-0227			Gable Louver Vents <small>(08 91 19)</small> Note: 1" deep, residential/light commercial grade louvers.		
08 91 19 00-0228			Aluminum Gable Louver Vents <small>(08 91 19 00-0227)</small> Note: Includes screen.		
08 91 19 00-0229			Rectangular Aluminum Gable Louver Vents <small>(08 91 19 00-0228)</small> Note: Includes screen.		
08 91 19 00-0230	EA		12" x 18" Rectangular Fixed Aluminum Gable Louver Vent.....	271.58	12.08
08 91 19 00-0231	EA		12" x 24" Rectangular Fixed Aluminum Gable Louver Vent.....	297.10	13.87
08 91 19 00-0232	EA		18" x 24" Rectangular Fixed Aluminum Gable Louver Vent.....	342.77	15.66
08 91 19 00-0233	EA		18" x 30" Rectangular Fixed Aluminum Gable Louver Vent.....	375.92	16.64
08 91 19 00-0234	EA		24" x 30" Rectangular Fixed Aluminum Gable Louver Vent.....	429.22	17.63
08 91 19 00-0235	EA		24" x 36" Rectangular Fixed Aluminum Gable Louver Vent.....	480.08	21.14
08 91 19 00-0236	EA		30" x 36" Rectangular Fixed Aluminum Gable Louver Vent.....	556.39	26.43
08 91 19 00-0237	EA		30" x 42" Rectangular Fixed Aluminum Gable Louver Vent.....	619.99	30.84
08 91 19 00-0238	EA		36" x 42" Rectangular Fixed Aluminum Gable Louver Vent.....	709.00	37.00
08 91 19 00-0239	EA		42" x 48" Rectangular Fixed Aluminum Gable Louver Vent.....	887.04	49.33
08 91 19 00-0240			Square Aluminum Gable Louver Vents <small>(08 91 19 00-0228)</small> Note: Includes screen.		
08 91 19 00-0241	EA		12" x 12" Square Fixed Aluminum Gable Louver Vent.....	248.57	11.12
08 91 19 00-0242	EA		18" x 18" Square Fixed Aluminum Gable Louver Vent.....	307.83	14.10
08 91 19 00-0243	EA		24" x 24" Square Fixed Aluminum Gable Louver Vent.....	385.99	16.63
08 91 19 00-0244	EA		30" x 30" Square Fixed Aluminum Gable Louver Vent.....	492.80	22.02
08 91 19 00-0245	EA		36" x 36" Square Fixed Aluminum Gable Louver Vent.....	632.70	31.72
08 91 19 00-0246	EA		42" x 42" Square Fixed Aluminum Gable Louver Vent.....	797.92	43.14
08 91 19 00-0247	EA		48" x 48" Square Fixed Aluminum Gable Louver Vent.....	988.79	56.38
08 91 19 00-0248			Round Aluminum Gable Louver Vents <small>(08 91 19 00-0228)</small> Note: Includes screen.		
08 91 19 00-0249	EA		12" Diameter Round Fixed Aluminum Gable Louver Vent.....	248.57	11.12
08 91 19 00-0250	EA		18" Diameter Round Fixed Aluminum Gable Louver Vent.....	307.83	14.10
08 91 19 00-0251	EA		24" Diameter Round Fixed Aluminum Gable Louver Vent.....	385.99	16.63
08 91 19 00-0252	EA		30" Diameter Round Fixed Aluminum Gable Louver Vent.....	492.80	22.02
08 91 19 00-0253	EA		36" Diameter Round Fixed Aluminum Gable Louver Vent.....	632.70	31.72
08 91 19 00-0254	EA		42" Diameter Round Fixed Aluminum Gable Louver Vent.....	798.02	43.17
08 91 19 00-0255			Octagonal Aluminum Gable Louver Vents <small>(08 91 19 00-0228)</small> Note: Includes screen.		
08 91 19 00-0256	EA		12" x 12" Octagonal Fixed Aluminum Gable Louver Vent.....	248.57	11.12
08 91 19 00-0257	EA		12" x 18" Octagonal Fixed Aluminum Gable Louver Vent.....	271.58	12.08
08 91 19 00-0258	EA		12" x 24" Octagonal Fixed Aluminum Gable Louver Vent.....	297.10	13.87
08 91 19 00-0259	EA		18" x 18" Octagonal Fixed Aluminum Gable Louver Vent.....	307.83	14.10
08 91 19 00-0260	EA		18" x 24" Octagonal Fixed Aluminum Gable Louver Vent.....	342.77	15.66
08 91 19 00-0261	EA		18" x 30" Octagonal Fixed Aluminum Gable Louver Vent.....	375.92	16.64
08 91 19 00-0262	EA		24" x 24" Octagonal Fixed Aluminum Gable Louver Vent.....	385.99	16.63
08 91 19 00-0263	EA		24" x 30" Octagonal Fixed Aluminum Gable Louver Vent.....	429.22	17.63
08 91 19 00-0264	EA		24" x 36" Octagonal Fixed Aluminum Gable Louver Vent.....	480.08	21.14
08 91 19 00-0265	EA		30" x 30" Octagonal Fixed Aluminum Gable Louver Vent.....	492.80	22.02
08 91 19 00-0266	EA		30" x 36" Octagonal Fixed Aluminum Gable Louver Vent.....	556.39	26.43
08 91 19 00-0267	EA		30" x 42" Octagonal Fixed Aluminum Gable Louver Vent.....	619.99	30.84
08 91 19 00-0268	EA		36" x 36" Octagonal Fixed Aluminum Gable Louver Vent.....	632.70	31.72
08 91 19 00-0269	EA		36" x 42" Octagonal Fixed Aluminum Gable Louver Vent.....	709.00	37.00
08 91 19 00-0270	EA		36" x 48" Octagonal Fixed Aluminum Gable Louver Vent.....	785.31	42.29
08 91 19 00-0271	EA		42" x 42" Octagonal Fixed Aluminum Gable Louver Vent.....	798.02	43.17
08 91 19 00-0272	EA		42" x 48" Octagonal Fixed Aluminum Gable Louver Vent.....	887.04	49.33
08 91 19 00-0273	EA		48" x 48" Octagonal Fixed Aluminum Gable Louver Vent.....	988.79	56.38
08 91 19 00-0274			Round Top Aluminum Gable Louver Vents <small>(08 91 19 00-0228)</small> Note: Includes screen.		
08 91 19 00-0275	EA		12" x 12" Round Top Fixed Aluminum Gable Louver Vent.....	248.57	11.12
08 91 19 00-0276	EA		12" x 18" Round Top Fixed Aluminum Gable Louver Vent.....	271.58	12.08
08 91 19 00-0277	EA		12" x 24" Round Top Fixed Aluminum Gable Louver Vent.....	297.10	13.87
08 91 19 00-0278	EA		18" x 18" Round Top Fixed Aluminum Gable Louver Vent.....	307.83	14.10
08 91 19 00-0279	EA		18" x 24" Round Top Fixed Aluminum Gable Louver Vent.....	342.77	15.66
08 91 19 00-0280	EA		18" x 30" Round Top Fixed Aluminum Gable Louver Vent.....	375.92	16.64
08 91 19 00-0281	EA		24" x 24" Round Top Fixed Aluminum Gable Louver Vent.....	385.99	16.63
08 91 19 00-0282	EA		24" x 30" Round Top Fixed Aluminum Gable Louver Vent.....	429.22	17.63
08 91 19 00-0283	EA		24" x 36" Round Top Fixed Aluminum Gable Louver Vent.....	480.08	21.14
08 91 19 00-0284	EA		30" x 30" Round Top Fixed Aluminum Gable Louver Vent.....	492.80	22.02
08 91 19 00-0285	EA		30" x 36" Round Top Fixed Aluminum Gable Louver Vent.....	556.39	26.43
08 91 19 00-0286	EA		30" x 42" Round Top Fixed Aluminum Gable Louver Vent.....	619.99	30.84
08 91 19 00-0287	EA		36" x 36" Round Top Fixed Aluminum Gable Louver Vent.....	632.70	31.72
08 91 19 00-0288	EA		36" x 42" Round Top Fixed Aluminum Gable Louver Vent.....	709.00	37.00
08 91 19 00-0289	EA		36" x 48" Round Top Fixed Aluminum Gable Louver Vent.....	785.31	42.29
08 91 19 00-0290	EA		42" x 42" Round Top Fixed Aluminum Gable Louver Vent.....	798.02	43.17
08 91 19 00-0291	EA		42" x 48" Round Top Fixed Aluminum Gable Louver Vent.....	887.04	49.33



		Openings 08
		Louvers and Vents 08 90
		Louvers 08 91

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 19 00-0292 EA 48" x 48" Round Top Fixed Aluminum Gable Louver Vent	988.79	56.38
08 91 19 00-0293 Triangle Aluminum Gable Louver Vents (08 91 19 00-0228)		
Note: Includes screen.		
08 91 19 00-0294 EA 36" Base x 30" High Triangle Fixed Aluminum Gable Louver Vent.....	518.68	13.87
08 91 19 00-0295 EA 36" Base x 36" High Triangle Fixed Aluminum Gable Louver Vent.....	587.43	16.63
08 91 19 00-0296 EA 48" Base x 30" High Triangle Fixed Aluminum Gable Louver Vent.....	630.67	17.63
08 91 19 00-0297 EA 48" Base x 36" High Triangle Fixed Aluminum Gable Louver Vent.....	721.81	21.14
08 91 19 00-0298 EA 48" Base x 42" High Triangle Fixed Aluminum Gable Louver Vent.....	805.04	22.02
08 91 19 00-0299 EA 60" Base x 24" High Triangle Fixed Aluminum Gable Louver Vent.....	657.12	26.43
08 91 19 00-0300 EA 60" Base x 30" High Triangle Fixed Aluminum Gable Louver Vent.....	771.07	30.84
08 91 19 00-0301 EA 60" Base x 36" High Triangle Fixed Aluminum Gable Louver Vent.....	874.43	31.72
08 91 19 00-0302 EA 60" Base x 42" High Triangle Fixed Aluminum Gable Louver Vent.....	991.02	37.00
08 91 19 00-0303 EA 72" Base x 24" High Triangle Fixed Aluminum Gable Louver Vent.....	785.31	42.29
08 91 19 00-0304 EA 72" Base x 30" High Triangle Fixed Aluminum Gable Louver Vent.....	908.82	43.17
08 91 19 00-0305 EA 72" Base x 36" High Triangle Fixed Aluminum Gable Louver Vent.....	1,048.19	49.33
08 91 19 00-0306 EA 72" Base x 42" High Triangle Fixed Aluminum Gable Louver Vent.....	1,190.23	56.38
08 91 19 00-0307 EA 72" Base x 48" High Triangle Fixed Aluminum Gable Louver Vent.....	1,336.33	64.79
08 91 19 00-0308 Vinyl Gable Louver Vents (08 91 19 00-0227)		
Note: Includes screen.		
08 91 19 00-0309 EA 12" x 12" Square Fixed Vinyl Gable Louver Vent.....	79.91	11.12
08 91 19 00-0310 EA 12" x 18" Rectangular Fixed Vinyl Gable Louver Vent.....	96.76	12.08
08 91 19 00-0311 EA 18" x 24" Rectangular Fixed Vinyl Gable Louver Vent.....	132.14	15.66
08 91 19 00-0312 EA 24" x 30" Rectangular Fixed Vinyl Gable Louver Vent.....	181.53	17.63
08 91 19 00-0313 EA 18" Diameter Round Fixed Vinyl Gable Louver Vent.....	128.07	14.10
08 91 19 00-0314 EA 22" Diameter Round Fixed Vinyl Gable Louver Vent.....	147.96	16.63
08 91 19 00-0315 EA 30" Diameter Round Fixed Vinyl Gable Louver Vent.....	208.83	22.02
08 91 19 00-0316 EA 36" Diameter Round Fixed Vinyl Gable Louver Vent.....	305.26	31.72
08 91 19 00-0317 EA 18" x 18" Octagonal Fixed Vinyl Gable Louver Vent.....	128.07	14.10
08 91 19 00-0318 EA 22" x 22" Octagonal Fixed Vinyl Gable Louver Vent.....	145.03	15.66
08 91 19 00-0319 EA 27" x 27" Octagonal Fixed Vinyl Gable Louver Vent.....	187.47	17.63
08 91 19 00-0320 EA 32" x 32" Octagonal Fixed Vinyl Gable Louver Vent.....	266.03	26.43
08 91 19 00-0321 EA 40" x 40" Octagonal Fixed Vinyl Gable Louver Vent.....	635.07	42.29
08 91 19 00-0322 EA 14" x 22" Round Top Fixed Vinyl Gable Louver Vent.....	125.52	13.87
08 91 19 00-0323 EA 22" x 32" Round Top Fixed Vinyl Gable Louver Vent.....	175.16	17.63
08 91 19 00-0324 EA 34" x 22" Half Round Fixed Vinyl Gable Louver Vent.....	181.09	21.14
08 91 19 00-0325 EA 52" Base x 26" High Triangle Fixed Vinyl Gable Louver Vent.....	418.58	26.43
08 91 19 00-0326 EA 56" Base x 23" High Triangle Fixed Vinyl Gable Louver Vent.....	418.58	26.43
08 91 19 00-0327 EA 56" Base x 26" High Triangle Fixed Vinyl Gable Louver Vent.....	418.58	26.43
08 91 19 00-0328 EA 62" Base x 23" High Triangle Fixed Vinyl Gable Louver Vent.....	418.58	26.43
08 91 19 00-0329 EA 62-1/2" Base x 21" High Triangle Fixed Vinyl Gable Louver Vent.....	418.58	26.43
08 91 19 00-0330 EA 70-1/2" Base x 17" High Triangle Fixed Vinyl Gable Louver Vent.....	466.20	42.29
08 91 19 00-0331 EA 70-1/2" Base x 20-1/2" High Triangle Fixed Vinyl Gable Louver Vent.....	466.20	42.29
08 91 19 00-0332 EA 72-1/2" Base x 18" High Triangle Fixed Vinyl Gable Louver Vent.....	466.20	42.29
08 91 19 00-0333 EA 74" Base x 14-1/2" High Triangle Fixed Vinyl Gable Louver Vent.....	466.20	42.29
08 95 Vents (08 90)		
08 95 13 Soffit Vents (08 95)		
08 95 13 00-0001 Aluminum Soffit Vents (08 95 13)		
08 95 13 00-0002 LF 2-1/2" Wide Aluminum Soffit Vent.....	9.58	3.53
08 95 13 00-0003 LF 3" Wide Aluminum Soffit Vent.....	17.37	6.92
08 95 13 00-0004 EA 4" x 16" Under Eave Vent, Mill Finish.....	27.94	9.22
08 95 13 00-0005 EA 8" x 16" Under Eave Vent, Mill Finish.....	28.89	9.22
08 95 13 00-0006 Vinyl Soffit Vents (08 95 13)		
08 95 13 00-0007 LF Up To 2" Vinyl Soffit Vent, Perforated, White.....	7.02	2.93
For Colors, Add	0.12	
08 95 13 00-0008 LF 3" To 4" Vinyl Soffit Vent, Perforated, White.....	7.50	2.93
For Colors, Add	0.17	
08 95 16 Wall Vents (08 95)		
08 95 16 00-0001 Foundation Vents (08 95 16)		
08 95 16 00-0002 SI Galvanized Steel Foundation Vent.....	0.54	0.22
08 95 16 00-0003 SI Aluminum Foundation Vent.....	1.01	0.22
08 95 16 00-0004 SI Stainless Steel Foundation Vent.....	1.08	0.22
08 95 16 00-0005 SI Plastic Foundation Vent.....	0.70	0.22

08	08	Openings
	08 90	Louvers and Vents
	08 95	Vents



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
------------------------------	---------------------------	-------------------------

END OF SECTION 08



MINOR	CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
-------	---------------------	------------------------	----------------------

22 Plumbing

Note: Where required, mechanical equipment excludes electrical connection unless title states otherwise.

22 01 Operation and Maintenance of Plumbing ⁽²²⁾

22 01 10 Operation and Maintenance of Plumbing Piping and Pumps ^(22 01)

See CSI section 23 01 20 00-0000 for purging of pipes and shutdown.

22 01 10 61 Plumbing Piping Repairs ^(22 01 10)

22 01 10 61-0001 Pipe Repair Clamps ^(22 01 10 61)

22 01 10 61-0002	EA	1/2" Diameter x 3" Stainless Steel Pipe Repair Clamp, Single Bolt Note: Includes neoprene gasket	49.19
22 01 10 61-0003	EA	3/4" Diameter x 3" Stainless Steel Pipe Repair Clamp, Single Bolt Note: Includes neoprene gasket	51.51
22 01 10 61-0004	EA	1" Diameter x 3" Stainless Steel Pipe Repair Clamp, Single Bolt Note: Includes neoprene gasket	56.68
22 01 10 61-0005	EA	1-1/4" Diameter x 3" Stainless Steel Pipe Repair Clamp, Single Bolt Note: Includes neoprene gasket	60.62
22 01 10 61-0006	EA	1-1/2" Diameter x 3" Stainless Steel Pipe Repair Clamp, Single Bolt Note: Includes neoprene gasket	65.92
22 01 10 61-0007	EA	2" Diameter x 3" Stainless Steel Pipe Repair Clamp, Single Bolt Note: Includes neoprene gasket	84.30
22 01 10 61-0008	EA	2-1/2" Diameter x 3" Stainless Steel Pipe Repair Clamp, Single Bolt Note: Includes neoprene gasket	108.57
22 01 10 61-0009	EA	3" Diameter x 3" Stainless Steel Pipe Repair Clamp, Single Bolt Note: Includes neoprene gasket	127.05
22 01 10 61-0010	EA	4" Diameter x 3" Stainless Steel Pipe Repair Clamp, Single Bolt Note: Includes neoprene gasket	145.90
22 01 10 61-0011	EA	1/2" Diameter x 6" Stainless Steel Pipe Repair Clamp, Double Bolt Note: Includes neoprene gasket	76.82
22 01 10 61-0012	EA	3/4" Diameter x 6" Stainless Steel Pipe Repair Clamp, Double Bolt Note: Includes neoprene gasket	81.32
22 01 10 61-0013	EA	1" Diameter x 6" Stainless Steel Pipe Repair Clamp, Double Bolt Note: Includes neoprene gasket	90.05
22 01 10 61-0014	EA	1-1/4" Diameter x 6" Stainless Steel Pipe Repair Clamp, Double Bolt Note: Includes neoprene gasket	98.97
22 01 10 61-0015	EA	1-1/2" Diameter x 6" Stainless Steel Pipe Repair Clamp, Double Bolt Note: Includes neoprene gasket	109.33
22 01 10 61-0016	EA	2" Diameter x 6" Stainless Steel Pipe Repair Clamp, Double Bolt Note: Includes neoprene gasket	141.42
22 01 10 61-0017	EA	2-1/2" Diameter x 6" Stainless Steel Pipe Repair Clamp, Double Bolt Note: Includes neoprene gasket	173.99
22 01 10 61-0018	EA	3" Diameter x 6" Stainless Steel Pipe Repair Clamp, Double Bolt Note: Includes neoprene gasket	199.73
22 01 10 61-0019	EA	4" Diameter x 6" Stainless Steel Pipe Repair Clamp, Double Bolt Note: Includes neoprene gasket	227.10
22 01 10 61-0020	EA	1/2" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt Note: Includes Buna rubber gasket	108.40
22 01 10 61-0021	EA	3/4" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt Note: Includes Buna rubber gasket	113.29
22 01 10 61-0022	EA	1" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt Note: Includes Buna rubber gasket	125.22
22 01 10 61-0023	EA	1-1/4" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt Note: Includes Buna rubber gasket	137.37
22 01 10 61-0024	EA	1-1/2" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt Note: Includes Buna rubber gasket	155.18
22 01 10 61-0025	EA	2" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt Note: Includes Buna rubber gasket	190.65
22 01 10 61-0026	EA	2-1/2" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt Note: Includes Buna rubber gasket	227.36
22 01 10 61-0027	EA	3" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt Note: Includes Buna rubber gasket	274.76
22 01 10 61-0028	EA	4" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt Note: Includes Buna rubber gasket	336.99
22 01 10 61-0029	EA	5" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt Note: Includes Buna rubber gasket	346.46
22 01 10 61-0030	EA	6" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt Note: Includes Buna rubber gasket	370.99

22 01 40 Operation and Maintenance of Plumbing Fixtures ^(22 01)

22 01 40 81 Plumbing Fixtures Replacement ^(22 01 40)

22 01 40 81-0001 Removal And Replacement Of Fixture And/or Trim ^(22 01 40 81)

Note: Includes removal of existing item(s) and installation of new item(s).			
22 01 40 81-0002	EA	Removal And Replacement Of 3/8" To 1/2" Compression Shut-off Valve With 15" Polybutylene Supply Tube	77.12
22 01 40 81-0003	EA	Removal And Replacement Of 3/8" Compression x 1/2" FIP, Braided Stainless Steel, Supply Lines To Sink/Lavatory	26.64
22 01 40 81-0004	EA	Removal And Replacement Of Chrome Supply Lines To Sink/Lavatory, Pair	36.86

22 Plumbing
22 01 Operation and Maintenance of Plumbing
22 01 40 Operation and Maintenance of Plumbing Fixtures



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 01 40 81-0005 EA Removal And Replacement Of Single Bowl Sink/Lavatory Drain Line.....	52.17	
22 01 40 81-0006 EA Removal And Replacement Of Double Bowl Sink/Lavatory Drain Line.....	80.51	
22 01 40 81-0007 EA Removal And Replacement Of Shower Head, Polished Chrome.....	48.10	
22 01 40 81-0008 EA Removal And Replacement Of Shower Arm.....	47.14	
22 01 40 81-0009 EA Removal And Replacement Of Shower Head.....	52.49	
22 01 40 81-0010 EA Removal And Replacement Of Shower Knob.....	44.46	
22 01 40 81-0011 EA Removal And Replacement Of Shower and Tub Control Trim.....	135.35	
Note: Excludes balancing valve.		
22 01 40 81-0012 EA Removal And Replacement Of Sink Basket Strainer.....	34.85	
22 01 40 81-0013 EA Removal And Replacement Of 1-1/2" Sink Drain Without Stopper.....	19.56	
22 01 40 81-0014 EA Removal And Replacement Of 4-1/2" Sink Drain Without Stopper.....	20.45	
22 01 40 81-0015 EA Removal And Replacement Of 1-1/2" Sink Drain With Stopper.....	19.56	
22 01 40 81-0016 EA Removal And Replacement Of 1" Sink Rubber Stopper.....	11.62	
22 01 40 81-0017 EA Removal And Replacement Of Sink Tailpiece Extension, 1-1/2" x 8".....	34.37	
22 01 40 81-0018 EA Removal And Replacement Of Sink Trap, Adjustable, 1-1/2".....	54.72	
22 01 40 81-0019 EA Removal And Replacement Of Lavatory Pop-Up Rod.....	33.49	
22 01 40 81-0020 EA Removal And Replacement Of Lavatory Pop-up Drain Stopper.....	40.08	
22 01 40 81-0021 EA Removal And Replacement Of Faucet Handle.....	44.47	
22 01 40 81-0022 EA Removal And Replacement Of Faucet O-Ring.....	34.78	
22 01 40 81-0023 EA Removal And Replacement Of 1-1/2" Faucet Hole Cover.....	24.33	
22 01 40 81-0024 EA Removal And Replacement Of Toilet Ballcock.....	48.08	
22 01 40 81-0025 EA Removal And Replacement Of Toilet Bowl Ring, Flat Wax.....	9.26	
Note: Excludes removal of toilet.		
22 01 40 81-0026 EA Removal And Replacement Of Toilet Tank.....	183.97	
22 01 40 81-0027 EA Removal And Replacement Of 10" Toilet Bowl.....	239.97	
22 01 40 81-0028 EA Removal And Replacement Of 10", Low-Flush Watersaver, Toilet Bowl.....	254.91	
22 01 40 81-0029 EA Removal And Replacement Of 12" Toilet Bowl.....	269.33	
22 01 40 81-0030 EA Removal And Replacement Of 18", Elongated, Toilet Bowl.....	244.99	
22 01 40 81-0031 EA Removal And Replacement Of Toilet Closet Bolt, 5/16" x 3" With Nuts And Washers.....	31.25	
22 01 40 81-0032 EA Removal And Replacement Of Toilet Flapper With Chain.....	21.58	
22 01 40 81-0033 EA Removal And Replacement Of Toilet Flush Tank Lever.....	23.82	
22 01 40 81-0034 EA Removal And Replacement Of Elongated Toilet Seat With Lid.....	114.08	
22 01 40 81-0035 EA Removal And Replacement Of Elongated Toilet Seat Without Lid.....	108.56	
22 01 40 81-0036 EA Removal And Replacement Of Handicap Toilet Seat, Complete With Rails.....	167.90	
22 01 40 81-0037 EA Removal And Replacement Of Diverter Tub Spout.....	64.68	
22 01 40 81-0038 EA Removal And Replacement Of Tub Spout.....	48.34	
22 01 40 81-0039 EA Removal And Replacement Of 2" Tub Stopper.....	13.76	
22 01 40 81-0040 EA Removal And Replacement Of Tub Waste/Overflow.....	91.99	
22 01 40 81-0041 EA Removal And Replacement Of Tub Stem Bonnet Assembly.....	49.51	
22 01 40 81-0042 EA Removal And Replacement Of Faucet Bonnet.....	53.58	
22 01 40 81-0043 EA Removal And Replacement Of Faucet Diverter Stem.....	34.01	
22 01 40 81-0044 EA Removal And Replacement Of Faucet Diverter Stem And Bonnet.....	44.62	
22 01 40 81-0045 EA Removal And Replacement Of Faucet Spout.....	49.54	
22 01 40 81-0046 EA Removal And Replacement Of Faucet Stem.....	36.97	
22 01 40 81-0047 EA Removal And Replacement Of Plastic, Chrome Plated Drinking Fountain Bubbler Valve With Flexible Bubbler Guard.....	216.05	
22 01 40 81-0048 EA Removal And Replacement Of Brass, Chrome Plated Drinking Fountain Bubbler Valve.....	266.10	
22 01 40 81-0049 EA Removal And Replacement Of Stainless Steel (Lead Free) Drinking Fountain Pushbutton Bubbler Valve.....	170.04	

22 05 Common Work Results for Plumbing ⁽²²⁾

22 05 13 Common Motor Requirements for Plumbing Equipment ^(22 05)

Note: New equipment includes motor, unless otherwise stated. For use when replacing existing motor. See CSI section 23 05 13 00-0000 for motor requirements.

22 05 19 Meters and Gages for Plumbing Piping ^(22 05)

See CSI section 23 05 19 00-0000 for gages.

22 05 23 General-Duty Valves for Plumbing Piping ^(22 05)

See CSI section 23 05 23 00-0000 for additional valves.

22 05 23 00-0001 Gate Valves ^(22 05 23)

22 05 23 00-0002 Class 125 Brazed Or Soldered Bronze Gate Valves ^(22 05 23 00-0001)

Note: 125 psi steam, basic rating. 200 psi cold working pressure. (Milwaukee Valve 105)

22 05 23 00-0003 EA 1/4" Diameter, 125 LB Brazed Or Soldered Bronze Gate Valve.....	97.78	15.31
For 150 LB Rating, Add	5.32	
For 200 LB Rating, Add	7.98	
For Work In Restricted Working Space, Add	13.38	
22 05 23 00-0004 EA 3/8" Diameter, 125 LB Brazed Or Soldered Bronze Gate Valve.....	100.12	15.31
For 150 LB Rating, Add	5.32	
For 200 LB Rating, Add	7.98	
For Work In Restricted Working Space, Add	14.08	
22 05 23 00-0005 EA 1/2" Diameter, 125 LB Brazed Or Soldered Bronze Gate Valve.....	102.90	15.31
For 150 LB Rating, Add	5.35	
For 200 LB Rating, Add	8.03	
For Work In Restricted Working Space, Add	14.82	
22 05 23 00-0006 EA 3/4" Diameter, 125 LB Brazed Or Soldered Bronze Gate Valve.....	124.07	16.85
For 150 LB Rating, Add	5.75	
For 200 LB Rating, Add	8.63	
For Work In Restricted Working Space, Add	19.97	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 05 23 00-0007 EA 1" Diameter, 125 LB Brazed Or Soldered Bronze Gate Valve <i>For 150 LB Rating, Add</i> <i>For 200 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	151.03 7.04 10.56 24.18	19.14
22 05 23 00-0008 EA 1-1/4" Diameter, 125 LB Brazed Or Soldered Bronze Gate Valve <i>For 150 LB Rating, Add</i> <i>For 200 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	217.09 11.50 17.25 30.63	20.37
22 05 23 00-0009 EA 1-1/2" Diameter, 125 LB Brazed Or Soldered Bronze Gate Valve <i>For 150 LB Rating, Add</i> <i>For 200 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	242.78 12.50 18.75 35.34	23.58
22 05 23 00-0010 EA 2" Diameter, 125 LB Brazed Or Soldered Bronze Gate Valve <i>For 150 LB Rating, Add</i> <i>For 200 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	290.64 15.14 22.71 41.76	27.87
22 05 23 00-0011 EA 2-1/2" Diameter, 125 LB Brazed Or Soldered Bronze Gate Valve <i>For 150 LB Rating, Add</i> <i>For 200 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Chain Operated Type, Add</i>	627.21 43.92 65.89 56.39 197.66	37.64
22 05 23 00-0012 EA 3" Diameter, 125 LB Brazed Or Soldered Bronze Gate Valve <i>For 150 LB Rating, Add</i> <i>For 200 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	735.20 51.83 77.75 65.07	43.70
22 05 23 00-0013 Class 125 Brazed Or Soldered Bronze Lead Free Gate Valves <small>(22 05 23 00-0001)</small> Note: 125 psi steam, basic rating. 200 psi cold working pressure. (Milwaukee Valve UP105, Nibco T113-LF)		
22 05 23 00-0014 EA 1/4" Diameter, 125 LB Brazed Or Soldered Bronze Lead Free Gate Valve <i>For 150 LB Rating, Add</i> <i>For 200 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	115.50 7.09 10.64 13.38	15.31
22 05 23 00-0015 EA 3/8" Diameter, 125 LB Brazed Or Soldered Bronze Lead Free Gate Valve <i>For 150 LB Rating, Add</i> <i>For 200 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	117.69 7.08 10.61 14.08	15.31
22 05 23 00-0016 EA 1/2" Diameter, 125 LB Brazed Or Soldered Bronze Lead Free Gate Valve <i>For 150 LB Rating, Add</i> <i>For 200 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	135.65 8.63 12.94 14.82	15.31
22 05 23 00-0017 EA 3/4" Diameter, 125 LB Brazed Or Soldered Bronze Lead Free Gate Valve <i>For 150 LB Rating, Add</i> <i>For 200 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	156.82 9.03 13.54 19.97	16.85
22 05 23 00-0018 EA 1" Diameter, 125 LB Brazed Or Soldered Bronze Lead Free Gate Valve <i>For 150 LB Rating, Add</i> <i>For 200 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	188.40 10.78 16.17 24.18	19.14
22 05 23 00-0019 EA 1-1/4" Diameter, 125 LB Brazed Or Soldered Bronze Lead Free Gate Valve <i>For 150 LB Rating, Add</i> <i>For 200 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	268.20 16.61 24.92 30.63	20.37
22 05 23 00-0020 EA 1-1/2" Diameter, 125 LB Brazed Or Soldered Bronze Lead Free Gate Valve <i>For 150 LB Rating, Add</i> <i>For 200 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	307.07 18.93 28.39 35.34	23.58
22 05 23 00-0021 EA 2" Diameter, 125 LB Brazed Or Soldered Bronze Lead Free Gate Valve <i>For 150 LB Rating, Add</i> <i>For 200 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	389.97 25.08 37.61 41.76	27.87
22 05 23 00-0022 200 PSI, Non-Rising Stem, Crimped Bronze Gate Valves <small>(22 05 23 00-0001)</small> Note: 200 psi cold working pressure.		
22 05 23 00-0023 EA 1/2" Diameter, 200 PSI, Non-Rising Stem, Crimped Bronze Gate Valve <i>For Work In Restricted Working Space, Add</i>	136.12 10.34	15.31
22 05 23 00-0024 EA 3/4" Diameter, 200 PSI, Non-Rising Stem, Crimped Bronze Gate Valve <i>For Work In Restricted Working Space, Add</i>	153.38 11.77	16.85
22 05 23 00-0025 EA 1" Diameter, 200 PSI, Non-Rising Stem, Crimped Bronze Gate Valve <i>For Work In Restricted Working Space, Add</i>	200.61 14.07	19.14
22 05 23 00-0026 EA 1-1/4" Diameter, 200 PSI, Non-Rising Stem, Crimped Bronze Gate Valve <i>For Work In Restricted Working Space, Add</i>	270.99 15.50	20.37
22 05 23 00-0027 EA 1-1/2" Diameter, 200 PSI, Non-Rising Stem, Crimped Bronze Gate Valve <i>For Work In Restricted Working Space, Add</i>	313.64 17.23	23.58
22 05 23 00-0028 EA 2" Diameter, 200 PSI, Non-Rising Stem, Crimped Bronze Gate Valve <i>For Work In Restricted Working Space, Add</i>	429.60 20.67	27.87
22 05 23 00-0029 Ball Valves <small>(22 05 23)</small>		
22 05 23 00-0030 Crimped Bronze, Ball Valves <small>(22 05 23 00-0029)</small>		
22 05 23 00-0031 Crimped Bronze, 250 PSI, Ball Valves <small>(22 05 23 00-0030)</small> Note: Nibco®		

22 Plumbing**22 05 Common Work Results for Plumbing****22 05 23 General-Duty Valves for Plumbing Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 05 23 00-0032 EA 1/2" Crimped Bronze, 250 PSI, Ball Valve	95.86	15.31
<i>For Work In Restricted Working Space, Add</i>	10.34	
22 05 23 00-0033 EA 3/4" Crimped Bronze, 250 PSI, Ball Valve	122.91	16.85
<i>For Work In Restricted Working Space, Add</i>	11.77	
22 05 23 00-0034 EA 1" Crimped Bronze, 250 PSI, Ball Valve	157.02	19.14
<i>For Work In Restricted Working Space, Add</i>	14.07	
22 05 23 00-0035 EA 1-1/4" Crimped Bronze, 250 PSI, Ball Valve	248.66	20.37
<i>For Work In Restricted Working Space, Add</i>	15.50	
22 05 23 00-0036 EA 1-1/2" Crimped Bronze, 250 PSI, Ball Valve	326.39	23.58
<i>For Work In Restricted Working Space, Add</i>	17.23	
22 05 23 00-0037 EA 2" Crimped Bronze, 250 PSI, Ball Valve	488.23	27.87
<i>For Work In Restricted Working Space, Add</i>	20.67	
22 05 23 00-0038 Crimped Bronze, 200 PSI, Full Port Ball Valves (22 05 23 00-0030)		
22 05 23 00-0039 EA 1/2" Crimped Bronze, 200 PSI, Full Port, Lever Ball Valve	60.94	15.31
<i>For Work In Restricted Working Space, Add</i>	10.34	
22 05 23 00-0040 EA 3/4" Crimped Bronze, 200 PSI, Full Port, Lever Ball Valve	76.46	16.85
<i>For Work In Restricted Working Space, Add</i>	11.77	
22 05 23 00-0041 EA 1" Crimped Bronze, 200 PSI, Full Port, Lever Ball Valve	92.71	19.14
<i>For Work In Restricted Working Space, Add</i>	14.07	
22 05 23 00-0042 EA 1-1/4" Crimped Bronze, 200 PSI, Full Port, Lever Ball Valve	126.14	20.37
<i>For Work In Restricted Working Space, Add</i>	15.50	
22 05 23 00-0043 EA 1-1/2" Crimped Bronze, 200 PSI, Full Port, Lever Ball Valve	160.51	23.58
<i>For Work In Restricted Working Space, Add</i>	17.23	
22 05 23 00-0044 EA 2" Crimped Bronze, 200 PSI, Full Port, Lever Ball Valve	233.57	27.87
<i>For Work In Restricted Working Space, Add</i>	20.67	
22 05 23 00-0045 Crimped Bronze, 250 PSI, Full Port Ball Valves (22 05 23 00-0030)		
22 05 23 00-0046 EA 1/2" Crimped Bronze, 250 PSI, Full Port, Lever Ball Valve	68.82	15.31
<i>For Work In Restricted Working Space, Add</i>	10.34	
22 05 23 00-0047 EA 3/4" Crimped Bronze, 250 PSI, Full Port, Lever Ball Valve	82.19	16.85
<i>For Work In Restricted Working Space, Add</i>	11.77	
22 05 23 00-0048 EA 1" Crimped Bronze, 250 PSI, Full Port, Lever Ball Valve	101.87	19.14
<i>For Work In Restricted Working Space, Add</i>	14.07	
22 05 23 00-0049 EA 1-1/4" Crimped Bronze, 250 PSI, Full Port, Lever Ball Valve	154.76	20.37
<i>For Work In Restricted Working Space, Add</i>	15.50	
22 05 23 00-0050 EA 1-1/2" Crimped Bronze, 250 PSI, Full Port, Lever Ball Valve	222.09	23.58
<i>For Work In Restricted Working Space, Add</i>	17.23	
22 05 23 00-0051 EA 2" Crimped Bronze, 250 PSI, Full Port, Lever Ball Valve	305.15	27.87
<i>For Work In Restricted Working Space, Add</i>	20.67	
22 05 23 00-0052 Crimped x Threaded Bronze, 250 PSI, Full Port Ball Valves (22 05 23 00-0030)		
22 05 23 00-0053 EA 1/2" Crimped x Threaded Bronze, 250 PSI, Full Port, Lever Ball Valve	66.67	15.31
<i>For Work In Restricted Working Space, Add</i>	10.34	
22 05 23 00-0054 EA 3/4" Crimped x Threaded Bronze, 250 PSI, Full Port, Lever Ball Valve	80.19	16.85
<i>For Work In Restricted Working Space, Add</i>	11.77	
22 05 23 00-0055 EA 1" Crimped x Threaded Bronze, 250 PSI, Full Port, Lever Ball Valve	97.29	19.14
<i>For Work In Restricted Working Space, Add</i>	14.07	
22 05 23 00-0056 Check Valves (22 05 23)		
22 05 23 00-0057 Crimped Bronze, 200 PSI, Y-Pattern, Swing Check Valves (22 05 23 00-0056)		
Note: Nibco®		
22 05 23 00-0058 EA 1/2" Crimped Bronze, 200 PSI, Y-Pattern Check Valve	176.35	15.31
<i>For Work In Restricted Working Space, Add</i>	10.34	
22 05 23 00-0059 EA 3/4" Crimped Bronze, 200 PSI, Y-Pattern Check Valve	223.50	16.85
<i>For Work In Restricted Working Space, Add</i>	11.77	
22 05 23 00-0060 EA 1" Crimped Bronze, 200 PSI, Y-Pattern Check Valve	307.38	19.14
<i>For Work In Restricted Working Space, Add</i>	14.07	
22 05 23 00-0061 EA 1-1/4" Crimped Bronze, 200 PSI, Y-Pattern Check Valve	407.47	20.37
<i>For Work In Restricted Working Space, Add</i>	15.50	
22 05 23 00-0062 EA 1-1/2" Crimped Bronze, 200 PSI, Y-Pattern Check Valve	485.23	23.58
<i>For Work In Restricted Working Space, Add</i>	17.23	
22 05 23 00-0063 EA 2" Crimped Bronze, 200 PSI, Y-Pattern Check Valve	691.55	27.87
<i>For Work In Restricted Working Space, Add</i>	20.67	
22 05 23 00-0064 Crimped Bronze, 250 PSI, In-Line, Check Valves (22 05 23 00-0056)		
22 05 23 00-0065 EA 1/2" Crimped Bronze, 200 PSI, In-Line Check Valve	54.90	15.31
<i>For Work In Restricted Working Space, Add</i>	10.34	
22 05 23 00-0066 EA 3/4" Crimped Bronze, 200 PSI, In-Line Check Valve	65.40	16.85
<i>For Work In Restricted Working Space, Add</i>	11.77	
22 05 23 00-0067 EA 1" Crimped Bronze, 200 PSI, In-Line Check Valve	77.04	19.14
<i>For Work In Restricted Working Space, Add</i>	14.07	
22 05 23 00-0068 EA 1-1/4" Crimped Bronze, 200 PSI, In-Line Check Valve	95.28	20.37
<i>For Work In Restricted Working Space, Add</i>	15.50	
22 05 23 00-0069 EA 1-1/2" Crimped Bronze, 200 PSI, In-Line Check Valve	119.32	23.58
<i>For Work In Restricted Working Space, Add</i>	17.23	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 05 23 00-0070 EA 2" Crimped Bronze, 200 PSI, In-Line Check Valve..... <i>For Work In Restricted Working Space, Add</i>	181.55 20.67	27.87
22 05 23 00-0071 Butterfly Valves (22 05 23)		
22 05 23 00-0072 Crimped Ductile Iron, 200 PSI, Handle Butterfly Valve (22 05 23 00-0071)		
22 05 23 00-0073 EA 2-1/2" Crimped Ductile Iron, 200 PSI, Handle Butterfly Valve..... <i>For Work In Restricted Working Space, Add</i>	1,279.35 24.12	40.88
22 05 23 00-0074 EA 3" Crimped Ductile Iron, 200 PSI, Handle Butterfly Valve..... <i>For Work In Restricted Working Space, Add</i>	1,386.90 28.71	47.47
22 05 23 00-0075 EA 4" Crimped Ductile Iron, 200 PSI, Handle Butterfly Valve..... <i>For Work In Restricted Working Space, Add</i>	1,735.18 37.90	53.60
22 05 23 00-0076 Earthquake-Sensitive Gas Shut-Off Valve (22 05 23)		
22 05 23 00-0077 0.5 PSI Threaded Earthquake Gas Shutoff Valves (22 05 23 00-0076)		
22 05 23 00-0078 EA 3/4" Diameter Threaded, 0.5 PSI Earthquake Gas Shutoff Valve.....	180.93	16.85
22 05 23 00-0079 EA 1" Diameter Threaded, 0.5 PSI Earthquake Gas Shutoff Valve.....	206.50	19.14
22 05 23 00-0080 7 PSI Threaded Earthquake Gas Shutoff Valves (22 05 23 00-0076)		
22 05 23 00-0081 EA 1-1/4" Diameter Threaded, 7 PSI Earthquake Gas Shutoff Valve.....	243.73	20.37
22 05 23 00-0082 EA 1-1/2" Diameter Threaded, 7 PSI Earthquake Gas Shutoff Valve.....	322.38	23.58
22 05 23 00-0083 60 PSI Threaded Earthquake Gas Shutoff Valves (22 05 23 00-0076)		
22 05 23 00-0084 EA 3/4" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve.....	218.70	16.85
22 05 23 00-0085 EA 1" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve.....	232.73	19.14
22 05 23 00-0086 EA 1-1/4" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve.....	264.72	20.37
22 05 23 00-0087 EA 1-1/2" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve.....	353.86	23.58
22 05 23 00-0088 EA 2" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve.....	768.73	27.87
22 05 23 00-0089 EA 2-1/2" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve.....	921.80	37.51
22 05 23 00-0090 EA 3" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve.....	1,187.40	43.70
22 05 23 00-0091 EA 4" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve.....	1,374.62	49.34
22 05 23 00-0092 60 PSI Flanged Earthquake Gas Shutoff Valves (22 05 23 00-0076)		
22 05 23 00-0093 EA 2" Flanged, 60 PSI Earthquake Gas Shutoff Valve.....	1,094.58	204.13
22 05 23 00-0094 EA 3" Flanged, 60 PSI Earthquake Gas Shutoff Valve.....	1,343.91	239.67
22 05 23 00-0095 EA 4" Flanged, 60 PSI Earthquake Gas Shutoff Valve.....	1,919.92	401.80
22 05 23 00-0096 EA 6" Flanged, 60 PSI Earthquake Gas Shutoff Valve.....	3,029.75	449.69
22 05 23 00-0097 EA 8" Flanged, 60 PSI Earthquake Gas Shutoff Valve.....	7,953.28	574.61
22 05 23 00-0098 Emergency Shut-Off Valve With Fusible Link (22 05 23)		
22 05 23 00-0099 Threaded, Fusible Brass Gate Valves (Morrison Bros. 939) (22 05 23 00-0098)		
Note: Brass globe/gate valve used to shut off product flow in the event of a fire. Fusible element in the handwheel automatically closes the valve when in contact with 165° F.		
22 05 23 00-0100 EA 1/4" Diameter Threaded, Fusible Brass Gate Valve (Morrison Bros. 939 Series)..... <i>For Work In Restricted Working Space, Add</i>	94.52 13.38	24.66
22 05 23 00-0101 EA 3/8" Diameter Threaded, Fusible Brass Gate Valve (Morrison Bros. 939 Series)..... <i>For Work In Restricted Working Space, Add</i>	96.92 14.10	26.03
22 05 23 00-0102 EA 1/2" Diameter Threaded, Fusible Brass Gate Valve (Morrison Bros. 939 Series)..... <i>For Work In Restricted Working Space, Add</i>	152.14 14.82	24.66
22 05 23 00-0103 EA 3/4" Diameter Threaded, Fusible Brass Gate Valve (Morrison Bros. 939 Series)..... <i>For Work In Restricted Working Space, Add</i>	294.71 19.97	33.23
22 05 23 00-0104 EA 1" Diameter Threaded, Fusible Brass Gate Valve (Morrison Bros. 939 Series)..... <i>For Work In Restricted Working Space, Add</i>	727.39 24.18	40.27
22 05 23 00-0105 Threaded, Ductile Iron Emergency Gas Shutoff Valves (Morrison Bros. 346-DI) (22 05 23 00-0098)		
Note: Ductile iron body, cap, seat and swing arm. Viton® encapsulated Teflon® o-ring, Teflon® gasket, and stainless steel spring.		
22 05 23 00-0106 EA 1-1/2" Diameter Threaded, Ductile Iron Emergency Gas Shutoff Valves (Morrison Bros. 346-DI)	564.54	23.58
22 05 23 00-0107 EA 2" Diameter Threaded, Ductile Iron Emergency Gas Shutoff Valves (Morrison Bros. 346-DI).....	611.16	27.87
22 05 23 00-0108 EA 3" Diameter Threaded, Ductile Iron Emergency Gas Shutoff Valves (Morrison Bros. 346-DI).....	1,023.51	43.70
22 05 23 00-0109 Flanged, Ductile Iron Emergency Gas Shutoff Valves (Morrison Bros. 346-DI) (22 05 23 00-0098)		
Note: Ductile iron body, cap, seat and swing arm. Viton® encapsulated Teflon® o-ring, Teflon® gasket, and stainless steel spring.		
22 05 23 00-0110 EA 2" Diameter Flanged, Ductile Iron Emergency Gas Shutoff Valves (Morrison Bros. 346-DI)	736.68	204.13
22 05 23 00-0111 EA 3" Diameter Flanged, Ductile Iron Emergency Gas Shutoff Valves (Morrison Bros. 346-DI).....	1,162.82	239.67
22 05 23 00-0112 EA 4" Diameter Flanged, Ductile Iron Emergency Gas Shutoff Valves (Morrison Bros. 346-DI).....	2,601.37	401.80

22 Plumbing

22 05 Common Work Results for Plumbing

22 05 29 Hangers and Supports for Plumbing Piping and Equipment



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 05 29		Hangers and Supports for Plumbing Piping and Equipment ^(22 05) See CSI section 23 05 29 00-0000 for hangers and supports.		
22 05 48		Vibration and Seismic Controls for Plumbing Piping and Equipment ^(22 05)		
22 05 48 13		Vibration Controls for Plumbing Piping and Equipment ^(22 05 48) See CSI section 23 05 48 13-0000 for vibration and seismic control.		
22 05 53		Identification for Plumbing Piping and Equipment ^(22 05) See CSI section 23 05 53 00-0000 for identification.		
22 05 76		Facility Drainage Piping Cleanouts ^(22 05)		
22 05 76 00-0001		Cast Iron Cleanout With Plug And Cover ^(22 05 76) Note: For floor installation.		
22 05 76 00-0002		Cast Iron Cleanout With Plug And Round Or Square Cover ^(22 05 76 00-0001)		
22 05 76 00-0003	EA	2" Floor Cleanout, Round Or Square Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover..... <i>For Vandal Proof, Add</i> <i>For Galvanized Ferrule, Add</i> <i>For Carpet Marker, Add</i> <i>For Carpet Flange, Add</i> <i>For Wide Flange, Add</i> <i>For Satin Bronze Top, Deduct</i>	714.48 19.50 45.00 16.00 58.50 97.00 -24.00	81.46
22 05 76 00-0004	EA	3" Floor Cleanout, Round Or Square Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover..... <i>For Vandal Proof, Add</i> <i>For Galvanized Ferrule, Add</i> <i>For Carpet Marker, Add</i> <i>For Carpet Flange, Add</i> <i>For Wide Flange, Add</i> <i>For Satin Bronze Top, Deduct</i>	778.68 19.50 45.00 16.00 58.50 97.00 -24.00	102.14
22 05 76 00-0005	EA	4" Floor Cleanout, Round Or Square Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover..... <i>For Vandal Proof, Add</i> <i>For Galvanized Ferrule, Add</i> <i>For Carpet Marker, Add</i> <i>For Carpet Flange, Add</i> <i>For Wide Flange, Add</i> <i>For Satin Bronze Top, Deduct</i>	970.43 19.50 45.00 16.00 58.50 97.00 -24.00	123.42
22 05 76 00-0006	EA	5" Floor Cleanout, Round Or Square Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover..... <i>For Vandal Proof, Add</i> <i>For Galvanized Ferrule, Add</i> <i>For Carpet Marker, Add</i> <i>For Carpet Flange, Add</i> <i>For Wide Flange, Add</i> <i>For Satin Bronze Top, Deduct</i>	1,374.38 19.50 45.00 16.00 58.50 97.00 -24.00	138.13
22 05 76 00-0007	EA	6" Floor Cleanout, Round Or Square Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover..... <i>For Vandal Proof, Add</i> <i>For Galvanized Ferrule, Add</i> <i>For Carpet Marker, Add</i> <i>For Carpet Flange, Add</i> <i>For Wide Flange, Add</i> <i>For Satin Bronze Top, Deduct</i>	1,682.18 19.50 45.00 16.00 58.50 97.00 -24.00	149.61
22 05 76 00-0008		Cast Iron Heavy Duty Cleanout With Plug And Round Cover ^(22 05 76 00-0001)		
22 05 76 00-0009	EA	2" Heavy Duty Floor Cleanout, Round Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover..... <i>For Vandal Proof, Add</i> <i>For Galvanized Ferrule, Add</i> <i>For Carpet Marker, Add</i> <i>For Carpet Flange, Add</i> <i>For Wide Flange, Add</i> <i>For Satin Bronze Top, Deduct</i>	817.60 19.50 45.00 16.00 58.50 97.00 -24.00	81.46
22 05 76 00-0010	EA	3" Heavy Duty Floor Cleanout, Round Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover..... <i>For Vandal Proof, Add</i> <i>For Galvanized Ferrule, Add</i> <i>For Carpet Marker, Add</i> <i>For Carpet Flange, Add</i> <i>For Wide Flange, Add</i> <i>For Satin Bronze Top, Deduct</i>	883.43 19.50 45.00 16.00 58.50 97.00 -24.00	102.14
22 05 76 00-0011	EA	4" Heavy Duty Floor Cleanout, Round Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover..... <i>For Vandal Proof, Add</i> <i>For Galvanized Ferrule, Add</i> <i>For Carpet Marker, Add</i> <i>For Carpet Flange, Add</i> <i>For Wide Flange, Add</i> <i>For Satin Bronze Top, Deduct</i>	1,075.18 19.50 45.00 16.00 58.50 97.00 -24.00	123.42
22 05 76 00-0012	EA	5" Heavy Duty Floor Cleanout, Round Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover..... <i>For Vandal Proof, Add</i> <i>For Galvanized Ferrule, Add</i> <i>For Carpet Marker, Add</i> <i>For Carpet Flange, Add</i> <i>For Wide Flange, Add</i> <i>For Satin Bronze Top, Deduct</i>	1,479.13 19.50 45.00 16.00 58.50 97.00 -24.00	138.13



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 05 76 00-0013 EA 6" Heavy Duty Floor Cleanout, Round Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	1,786.93	149.61
For Vandal Proof, Add	19.50	
For Galvanized Ferrule, Add	45.00	
For Carpet Marker, Add	16.00	
For Carpet Flange, Add	58.50	
For Wide Flange, Add	97.00	
For Satin Bronze Top, Deduct	-24.00	
22 05 76 00-0014 Wall Cover For Cleanout <small>(22 05 76)</small>		
Note: Cover and screw only.		
22 05 76 00-0015 Round Access Cover, Bronze Polished Top <small>(22 05 76 00-0014)</small>		
Note: Cover and screw only.		
22 05 76 00-0016 EA 4-1/4" Diameter Wall Cover For Cleanout, Screwed.....	113.24	25.57
For Stainless Steel, Add	9.00	
For Vandal Proof Screws, Add	19.50	
22 05 76 00-0017 EA 5-1/2" Diameter Wall Cover For Cleanout, Screwed.....	123.46	30.63
For Stainless Steel, Add	9.00	
For Vandal Proof Screws, Add	19.50	
22 05 76 00-0018 EA 7" Diameter Wall Cover For Cleanout, Screwed.....	155.66	34.46
For Stainless Steel, Add	9.00	
For Vandal Proof Screws, Add	19.50	
22 05 76 00-0019 EA 9-1/4" Diameter Wall Cover For Cleanout, Screwed.....	254.97	38.28
For Stainless Steel, Add	9.00	
For Vandal Proof Screws, Add	19.50	
22 05 76 00-0020 EA 11-1/4" Diameter Wall Cover For Cleanout, Screwed.....	377.21	42.11
For Stainless Steel, Add	9.00	
For Vandal Proof Screws, Add	19.50	
22 05 76 00-0021 Square Wall Access Panel, Bronze Polished Top <small>(22 05 76 00-0014)</small>		
Note: Cover and screw only.		
22 05 76 00-0022 EA 7" x 7" Bronze Wall Or Floor Access Cover.....	549.73	25.57
For Vandal Proof Screws, Add	19.50	
For Nickel Bronze, Add	22.50	
22 05 76 00-0023 EA 9" x 9" Bronze Wall Or Floor Access Cover.....	787.78	26.80
For Vandal Proof Screws, Add	19.50	
For Nickel Bronze, Add	22.50	
22 05 76 00-0024 EA 10" x 10" Bronze Wall Or Floor Access Cover.....	841.63	28.33
For Vandal Proof Screws, Add	19.50	
For Nickel Bronze, Add	22.50	
22 05 76 00-0025 EA 14" x 14" Bronze Wall Or Floor Access Cover.....	941.63	32.16
For Vandal Proof Screws, Add	19.50	
For Nickel Bronze, Add	22.50	
22 05 76 00-0026 Secured Square Wall Access Panel, Bronze Polished Top <small>(22 05 76 00-0014)</small>		
Note: Cover and screw only.		
22 05 76 00-0027 EA 6" x 6" Bronze Secured Wall Access Panel.....	559.48	25.57
For Vandal Proof Screws, Add	19.50	
For Nickel Bronze, Add	22.50	
22 05 76 00-0028 EA 8" x 8" Bronze Secured Wall Access Panel.....	802.14	26.80
For Vandal Proof Screws, Add	19.50	
For Nickel Bronze, Add	22.50	
22 05 76 00-0029 EA 10" x 10" Bronze Secured Wall Access Panel.....	856.99	28.33
For Vandal Proof Screws, Add	19.50	
For Nickel Bronze, Add	22.50	
22 05 76 00-0030 EA 12" x 12" Bronze Secured Wall Access Panel.....	958.79	32.16
For Vandal Proof Screws, Add	19.50	
For Nickel Bronze, Add	22.50	
22 05 76 00-0031 Secure Square Hinged Access Panel, Bronze Polished Top, Scoriated <small>(22 05 76 00-0014)</small>		
Note: Cover and screw only.		
22 05 76 00-0032 EA 6" x 6" Bronze Secured Hinged Access Panel, Scoriated.....	543.01	25.57
For Vandal Proof Screws, Add	19.50	
For Nickel Bronze, Add	22.50	
22 05 76 00-0033 EA 8" x 8" Bronze Secured Hinged Access Panel, Scoriated.....	748.00	26.80
For Vandal Proof Screws, Add	19.50	
For Nickel Bronze, Add	22.50	
22 05 76 00-0034 EA 10" x 10" Bronze Secured Hinged Access Panel, Scoriated.....	1,057.07	28.33
For Vandal Proof Screws, Add	19.50	
For Nickel Bronze, Add	22.50	
22 05 76 00-0035 EA 12" x 12" Bronze Secured Hinged Access Panel, Scoriated.....	1,278.92	32.16
For Vandal Proof Screws, Add	19.50	
For Nickel Bronze, Add	22.50	
22 05 76 00-0036 Cast Iron Cleanout Tee <small>(22 05 76)</small>		
22 05 76 00-0037 Cast Iron Cleanout Tee And Round Access Cover <small>(22 05 76 00-0036)</small>		
Note: Satin smooth secured cover.		

22 Plumbing
22 05 Common Work Results for Plumbing
22 05 76 Facility Drainage Piping Cleanouts



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 05 76 00-0038 EA 2" Cleanout Tee With Bronze Screw Plug And Round Polished Bronze Cover <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	529.04 18.00 45.00	81.46
22 05 76 00-0039 EA 3" Cleanout Tee With Bronze Screw Plug And Round Polished Bronze Cover <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	608.39 18.00 45.00	101.99
22 05 76 00-0040 EA 4" Cleanout Tee With Bronze Screw Plug And Round Polished Bronze Cover <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	790.13 18.00 45.00	123.42
22 05 76 00-0041 EA 6" Cleanout Tee With Bronze Screw Plug And Round Polished Bronze Cover <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	1,824.38 18.00 45.00	149.61
22 05 76 00-0042 Cast Iron Cleanout Tee And Square Access Cover (22 05 76 00-0036) Note: Satin smooth secured cover.		
22 05 76 00-0043 EA 2" Cleanout Tee With Cast Bronze Screw Plug And Square Nickel Bronze Cover <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	895.18 18.00 45.00	81.46
22 05 76 00-0044 EA 3" Cleanout Tee With Cast Bronze Screw Plug And Square Nickel Bronze Cover <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	974.53 18.00 45.00	101.99
22 05 76 00-0045 EA 4" Cleanout Tee With Cast Bronze Screw Plug And Square Nickel Bronze Cover <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	1,131.97 18.00 45.00	123.42
22 05 76 00-0046 EA 6" Cleanout Tee With Cast Bronze Screw Plug And Square Nickel Bronze Cover <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	2,318.93 18.00 45.00	149.61
22 05 76 00-0047 Cast Iron Cleanout Tee With Brass Plug (22 05 76 00-0036)		
22 05 76 00-0048 EA 2" Cleanout Tee With Cast Bronze Screw Plug	433.47	66.62
22 05 76 00-0049 EA 3" Cleanout Tee With Cast Bronze Screw Plug	483.90	72.74
22 05 76 00-0050 EA 4" Cleanout Tee With Cast Bronze Screw Plug	644.39	95.71
22 05 76 00-0051 EA 5" Cleanout Tee With Cast Bronze Screw Plug	955.57	113.32
22 05 76 00-0052 EA 6" Cleanout Tee With Cast Bronze Screw Plug	1,604.36	133.99
22 05 76 00-0053 Removable Cleanout Plug (22 05 76)		
22 05 76 00-0054 Threaded Bronze Plugs (22 05 76 00-0053)		
22 05 76 00-0055 EA 1-1/4", 1-1/2" Or 2" Threaded Bronze Plug	89.89	19.14
<i>For Plug Tapped For Center Screw, Add</i>	9.50	
22 05 76 00-0056 EA 2-1/2" Threaded Bronze Plug	107.01	20.83
<i>For Plug Tapped For Center Screw, Add</i>	9.50	
22 05 76 00-0057 EA 3" Threaded Bronze Plug	179.38	22.97
<i>For Plug Tapped For Center Screw, Add</i>	9.50	
22 05 76 00-0058 EA 3-1/2" Threaded Bronze Plug	201.09	26.80
<i>For Plug Tapped For Center Screw, Add</i>	9.50	
22 05 76 00-0059 EA 4" Threaded Bronze Plug	227.47	30.63
<i>For Plug Tapped For Center Screw, Add</i>	9.50	
22 05 76 00-0060 EA 5" Threaded Bronze Plug	317.03	34.46
<i>For Plug Tapped For Center Screw, Add</i>	9.50	
22 05 76 00-0061 EA 6" Threaded Bronze Plug	462.72	38.28
<i>For Plug Tapped For Center Screw, Add</i>	9.50	
22 05 76 00-0062 EA 8" Threaded Bronze Plug	774.40	42.11
<i>For Plug Tapped For Center Screw, Add</i>	9.50	
22 05 76 00-0063 EA 10" Threaded Bronze Plug	1,109.58	45.94
<i>For Plug Tapped For Center Screw, Add</i>	9.50	
22 05 76 00-0064 Threaded Brass Plugs (22 05 76 00-0053)		
22 05 76 00-0065 EA 1-1/2" Threaded Brass Plug, Raised Head	41.74	19.14
<i>For Plug Tapped For Center Screw, Add</i>	9.50	
22 05 76 00-0066 EA 2" Threaded Brass Plug, Raised Head	42.35	19.14
<i>For Plug Tapped For Center Screw, Add</i>	9.50	
22 05 76 00-0067 EA 2-1/2" Threaded Brass Plug, Raised Head	46.10	20.83
<i>For Plug Tapped For Center Screw, Add</i>	9.50	
22 05 76 00-0068 EA 3" Threaded Brass Plug, Raised Head	52.01	22.97
<i>For Plug Tapped For Center Screw, Add</i>	9.50	
22 05 76 00-0069 EA 3-1/2" Threaded Brass Plug, Raised Head	61.30	26.80
<i>For Plug Tapped For Center Screw, Add</i>	9.50	
22 05 76 00-0070 EA 4" Threaded Brass Plug, Raised Head	71.69	30.63
<i>For Plug Tapped For Center Screw, Add</i>	9.50	
22 05 76 00-0071 EA 4-1/2" Threaded Brass Plug, Raised Head	76.86	32.25
<i>For Plug Tapped For Center Screw, Add</i>	9.50	
22 05 76 00-0072 EA 5" Threaded Brass Plug, Raised Head	82.41	34.46
<i>For Plug Tapped For Center Screw, Add</i>	9.50	
22 05 76 00-0073 EA 6" Threaded Brass Plug, Raised Head	104.70	38.28
<i>For Plug Tapped For Center Screw, Add</i>	9.50	
22 05 76 00-0074 EA 1-1/2" Threaded Brass Plug, Countersunk Head	41.27	19.14
<i>For Plug Tapped For Center Screw, Add</i>	9.50	
22 05 76 00-0075 EA 2" Threaded Brass Plug, Countersunk Head	41.94	19.14
<i>For Plug Tapped For Center Screw, Add</i>	9.50	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 05 76 00-0076 EA 2-1/2" Threaded Brass Plug, Countersunk Head..... <i>For Plug Tapped For Center Screw, Add</i>	47.41 9.50	20.83
22 05 76 00-0077 EA 3" Threaded Brass Plug, Countersunk Head..... <i>For Plug Tapped For Center Screw, Add</i>	52.20 9.50	22.97
22 05 76 00-0078 EA 3-1/2" Threaded Brass Plug, Countersunk Head..... <i>For Plug Tapped For Center Screw, Add</i>	60.74 9.50	26.80
22 05 76 00-0079 EA 4" Threaded Brass Plug, Countersunk Head..... <i>For Plug Tapped For Center Screw, Add</i>	70.80 9.50	30.63
22 05 76 00-0080 EA 5" Threaded Brass Plug, Countersunk Head..... <i>For Plug Tapped For Center Screw, Add</i>	81.93 9.50	34.46
22 05 76 00-0081 EA 6" Threaded Brass Plug, Countersunk Head..... <i>For Plug Tapped For Center Screw, Add</i>	96.85 9.50	38.28

22 07 Plumbing Insulation ⁽²²⁾

22 07 16 Plumbing Equipment Insulation ^(22 07)

22 07 16 00-0001 Lavatory Insulation ^(22 07 16)		
22 07 16 00-0002 EA Neoprene Insulation Kit For Under Lavatories.....	344.67	32.76

22 07 19 Plumbing Piping Insulation ^(22 07)

22 07 19 00-0001 Fiberglass (Glass Fiber) Pipe Insulation ^(22 07 19)		
<p>Note: Includes factory applied All Service Jacket (ASJ), Self Sealing Lap (SSL) longitudinal seam, butt strip seals, and adhesive. Excludes insulation for fittings (a location requiring purchase of an insulation fitting or cutting and fitting straight sections, excludes couplings, plugs, etc.). For fittings/valves up to 3" add 2 LF for each fitting/valve or 3 LF for each flanged/grooved joint. For fittings/valves >3" add 3 LF for each fitting/valve or 4 LF for each flanged/grooved joint.</p>		
22 07 19 00-0002 1/2" Thick Fiberglass Pipe Insulation ^(22 07 19 00-0001)		
22 07 19 00-0003 LF 1/2" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)..... <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	10.49 0.19 2.60	3.21
22 07 19 00-0004 LF 3/4" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)..... <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	10.68 0.21 2.60	3.21
22 07 19 00-0005 LF 1" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)..... <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	11.35 0.23 2.76	3.35
22 07 19 00-0006 LF 1-1/4" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)..... <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	11.74 0.25 2.81	3.50
22 07 19 00-0007 LF 1-1/2" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)..... <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	12.05 0.26 2.86	3.50
22 07 19 00-0008 LF 2" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)..... <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	12.76 0.28 3.02	3.64
22 07 19 00-0009 LF 2-1/2" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)..... <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	13.33 0.33 3.07	3.79
22 07 19 00-0010 LF 3" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)..... <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	14.04 0.36 3.17	3.93
22 07 19 00-0011 LF 4" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)..... <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	15.88 0.47 3.43	4.22
22 07 19 00-0012 LF 6" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)..... <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	18.72 0.56 4.00	4.95
22 07 19 00-0013 1" Thick Fiberglass Pipe Insulation ^(22 07 19 00-0001)		
22 07 19 00-0014 LF 1/2" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)..... <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	14.13 0.23 3.59	4.36
22 07 19 00-0015 LF 3/4" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)..... <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	14.45 0.26 3.59	4.36
22 07 19 00-0016 LF 1" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)..... <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	14.66 0.26 3.64	4.36
22 07 19 00-0017 LF 1-1/4" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)..... <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	15.16 0.30 3.69	4.51
22 07 19 00-0018 LF 1-1/2" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)..... <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	15.55 0.32 3.74	4.51
22 07 19 00-0019 LF 2" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)..... <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	16.18 0.35 3.85	4.66

22 Plumbing**22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0020 LF 2-1/2" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	17.04	4.95
For Single Layer Of Felt Finish, Add	0.39	
For Work In Restricted Working Space, Add	4.00	
22 07 19 00-0021 LF 3" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	17.86	5.10
For Single Layer Of Felt Finish, Add	0.44	
For Work In Restricted Working Space, Add	4.11	
22 07 19 00-0022 LF 4" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	20.11	5.39
For Single Layer Of Felt Finish, Add	0.56	
For Work In Restricted Working Space, Add	4.42	
22 07 19 00-0023 LF 6" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	23.20	6.26
For Single Layer Of Felt Finish, Add	0.69	
For Work In Restricted Working Space, Add	4.99	
22 07 19 00-0024 LF 8" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	28.46	6.99
For Single Layer Of Felt Finish, Add	0.99	
For Work In Restricted Working Space, Add	5.72	
22 07 19 00-0025 LF 10" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	33.50	8.30
For Single Layer Of Felt Finish, Add	1.15	
For Work In Restricted Working Space, Add	6.76	
22 07 19 00-0026 LF 12" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	38.46	9.46
For Single Layer Of Felt Finish, Add	1.31	
For Work In Restricted Working Space, Add	7.80	
22 07 19 00-0027 LF 14" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	41.35	10.34
For Single Layer Of Felt Finish, Add	1.52	
For Work In Restricted Working Space, Add	8.07	
22 07 19 00-0028 1-1/2" Thick Fiberglass Pipe Insulation (22 07 19 00-0001)		
22 07 19 00-0029 LF 1/2" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	16.86	4.49
For Single Layer Of Felt Finish, Add	0.46	
For Work In Restricted Working Space, Add	3.74	
22 07 19 00-0030 LF 3/4" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	17.06	4.49
For Single Layer Of Felt Finish, Add	0.48	
For Work In Restricted Working Space, Add	3.74	
22 07 19 00-0031 LF 1" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	18.02	4.77
For Single Layer Of Felt Finish, Add	0.51	
For Work In Restricted Working Space, Add	3.96	
22 07 19 00-0032 LF 1-1/4" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	18.63	4.87
For Single Layer Of Felt Finish, Add	0.54	
For Work In Restricted Working Space, Add	4.04	
22 07 19 00-0033 LF 1-1/2" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	19.16	4.95
For Single Layer Of Felt Finish, Add	0.57	
For Work In Restricted Working Space, Add	4.11	
22 07 19 00-0034 LF 2" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	20.42	5.21
For Single Layer Of Felt Finish, Add	0.63	
For Work In Restricted Working Space, Add	4.34	
22 07 19 00-0035 LF 2-1/2" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	21.26	5.30
For Single Layer Of Felt Finish, Add	0.69	
For Work In Restricted Working Space, Add	4.41	
22 07 19 00-0036 LF 3" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	21.95	5.49
For Single Layer Of Felt Finish, Add	0.71	
For Work In Restricted Working Space, Add	4.56	
22 07 19 00-0037 LF 4" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	24.18	5.94
For Single Layer Of Felt Finish, Add	0.81	
For Work In Restricted Working Space, Add	4.93	
22 07 19 00-0038 LF 6" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	28.02	6.93
For Single Layer Of Felt Finish, Add	0.93	
For Work In Restricted Working Space, Add	5.76	
22 07 19 00-0039 LF 8" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	31.30	7.31
For Single Layer Of Felt Finish, Add	1.16	
For Work In Restricted Working Space, Add	6.08	
22 07 19 00-0040 LF 10" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	38.18	8.75
For Single Layer Of Felt Finish, Add	1.46	
For Work In Restricted Working Space, Add	7.27	
22 07 19 00-0041 LF 12" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	43.41	10.20
For Single Layer Of Felt Finish, Add	1.59	
For Work In Restricted Working Space, Add	8.47	
22 07 19 00-0042 LF 14" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	48.51	11.17
For Single Layer Of Felt Finish, Add	1.84	
For Work In Restricted Working Space, Add	9.28	
22 07 19 00-0043 2" Thick Fiberglass Pipe Insulation (22 07 19 00-0001)		
22 07 19 00-0044 LF 1/2" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	20.57	4.95
For Single Layer Of Felt Finish, Add	0.72	
For Work In Restricted Working Space, Add	4.11	
22 07 19 00-0045 LF 3/4" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	20.80	4.95
For Single Layer Of Felt Finish, Add	0.75	
For Work In Restricted Working Space, Add	4.11	
22 07 19 00-0046 LF 1" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	21.48	5.10
For Single Layer Of Felt Finish, Add	0.80	
For Work In Restricted Working Space, Add	4.16	
22 07 19 00-0047 LF 1-1/4" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	22.07	5.10
For Single Layer Of Felt Finish, Add	0.84	
For Work In Restricted Working Space, Add	4.21	



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0048	LF	1-1/2" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	22.72	5.24
		<i>For Single Layer Of Felt Finish, Add</i>	0.89	
		<i>For Work In Restricted Working Space, Add</i>	4.27	
22 07 19 00-0049	LF	2" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	23.56	5.39
		<i>For Single Layer Of Felt Finish, Add</i>	0.93	
		<i>For Work In Restricted Working Space, Add</i>	4.42	
22 07 19 00-0050	LF	2-1/2" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	24.74	5.53
		<i>For Single Layer Of Felt Finish, Add</i>	1.00	
		<i>For Work In Restricted Working Space, Add</i>	4.58	
22 07 19 00-0051	LF	3" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	26.01	5.82
		<i>For Single Layer Of Felt Finish, Add</i>	1.07	
		<i>For Work In Restricted Working Space, Add</i>	4.73	
22 07 19 00-0052	LF	4" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	28.35	6.11
		<i>For Single Layer Of Felt Finish, Add</i>	1.23	
		<i>For Work In Restricted Working Space, Add</i>	4.99	
22 07 19 00-0053	LF	6" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	33.57	7.18
		<i>For Single Layer Of Felt Finish, Add</i>	1.43	
		<i>For Work In Restricted Working Space, Add</i>	5.99	
22 07 19 00-0054	LF	8" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	37.89	7.58
		<i>For Single Layer Of Felt Finish, Add</i>	1.77	
		<i>For Work In Restricted Working Space, Add</i>	6.32	
22 07 19 00-0055	LF	10" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	45.35	9.07
		<i>For Single Layer Of Felt Finish, Add</i>	2.11	
		<i>For Work In Restricted Working Space, Add</i>	7.57	
22 07 19 00-0056	LF	12" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	52.30	10.88
		<i>For Single Layer Of Felt Finish, Add</i>	2.32	
		<i>For Work In Restricted Working Space, Add</i>	9.06	
22 07 19 00-0057	LF	14" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	67.14	11.86
		<i>For Single Layer Of Felt Finish, Add</i>	2.63	
		<i>For Work In Restricted Working Space, Add</i>	12.64	
22 07 19 00-0058	LF	16" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	70.60	13.91
		<i>For Single Layer Of Felt Finish, Add</i>	2.99	
		<i>For Work In Restricted Working Space, Add</i>	12.64	
22 07 19 00-0059	LF	18" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	78.05	14.60
		<i>For Single Layer Of Felt Finish, Add</i>	3.55	
		<i>For Work In Restricted Working Space, Add</i>	13.27	
22 07 19 00-0060	LF	20" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	88.52	16.69
		<i>For Single Layer Of Felt Finish, Add</i>	3.98	
		<i>For Work In Restricted Working Space, Add</i>	15.17	
22 07 19 00-0061	LF	24" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	103.16	20.17
		<i>For Single Layer Of Felt Finish, Add</i>	4.42	
		<i>For Work In Restricted Working Space, Add</i>	18.33	
22 07 19 00-0062 2-1/2" Thick Fiberglass Pipe Insulation (22 07 19 00-0001)				
22 07 19 00-0063	LF	1/2" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	25.37	5.82
		<i>For Single Layer Of Felt Finish, Add</i>	1.00	
		<i>For Work In Restricted Working Space, Add</i>	4.74	
22 07 19 00-0064	LF	3/4" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	25.70	5.82
		<i>For Single Layer Of Felt Finish, Add</i>	1.04	
		<i>For Work In Restricted Working Space, Add</i>	4.74	
22 07 19 00-0065	LF	1" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	26.67	5.82
		<i>For Single Layer Of Felt Finish, Add</i>	1.12	
		<i>For Work In Restricted Working Space, Add</i>	4.82	
22 07 19 00-0066	LF	1-1/4" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	27.38	5.97
		<i>For Single Layer Of Felt Finish, Add</i>	1.18	
		<i>For Work In Restricted Working Space, Add</i>	4.85	
22 07 19 00-0067	LF	1-1/2" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	28.12	5.97
		<i>For Single Layer Of Felt Finish, Add</i>	1.24	
		<i>For Work In Restricted Working Space, Add</i>	4.89	
22 07 19 00-0068	LF	2" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	29.28	6.26
		<i>For Single Layer Of Felt Finish, Add</i>	1.29	
		<i>For Work In Restricted Working Space, Add</i>	5.09	
22 07 19 00-0069	LF	2-1/2" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	30.89	6.40
		<i>For Single Layer Of Felt Finish, Add</i>	1.40	
		<i>For Work In Restricted Working Space, Add</i>	5.27	
22 07 19 00-0070	LF	3" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	32.35	6.70
		<i>For Single Layer Of Felt Finish, Add</i>	1.49	
		<i>For Work In Restricted Working Space, Add</i>	5.45	
22 07 19 00-0071	LF	4" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	35.67	6.99
		<i>For Single Layer Of Felt Finish, Add</i>	1.73	
		<i>For Work In Restricted Working Space, Add</i>	5.75	
22 07 19 00-0072	LF	6" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	40.88	7.43
		<i>For Single Layer Of Felt Finish, Add</i>	2.01	
		<i>For Work In Restricted Working Space, Add</i>	6.53	
22 07 19 00-0073	LF	8" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	54.00	8.88
		<i>For Single Layer Of Felt Finish, Add</i>	3.12	
		<i>For Work In Restricted Working Space, Add</i>	7.28	
22 07 19 00-0074	LF	10" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	64.36	10.20
		<i>For Single Layer Of Felt Finish, Add</i>	3.82	
		<i>For Work In Restricted Working Space, Add</i>	8.39	
22 07 19 00-0075	LF	12" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	73.52	12.67
		<i>For Single Layer Of Felt Finish, Add</i>	4.07	
		<i>For Work In Restricted Working Space, Add</i>	10.43	

22 Plumbing**22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0076 LF 14" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	82.97	13.98
For Single Layer Of Felt Finish, Add	4.72	
For Work In Restricted Working Space, Add	11.39	
22 07 19 00-0077 LF 16" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	98.11	17.77
For Single Layer Of Felt Finish, Add	5.21	
For Work In Restricted Working Space, Add	14.56	
22 07 19 00-0078 LF 18" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	105.36	18.64
For Single Layer Of Felt Finish, Add	5.71	
For Work In Restricted Working Space, Add	15.29	
22 07 19 00-0079 LF 20" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	119.63	21.26
For Single Layer Of Felt Finish, Add	6.44	
For Work In Restricted Working Space, Add	17.48	
22 07 19 00-0080 LF 24" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	140.93	25.68
For Single Layer Of Felt Finish, Add	7.41	
For Work In Restricted Working Space, Add	21.11	
22 07 19 00-0081 3" Thick Fiberglass Pipe Insulation (22 07 19 00-0001)		
22 07 19 00-0082 LF 1/2" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	27.98	6.44
For Single Layer Of Felt Finish, Add	1.10	
For Work In Restricted Working Space, Add	5.24	
22 07 19 00-0083 LF 3/4" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	28.34	6.44
For Single Layer Of Felt Finish, Add	1.14	
For Work In Restricted Working Space, Add	5.24	
22 07 19 00-0084 LF 1" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	29.32	6.50
For Single Layer Of Felt Finish, Add	1.22	
For Work In Restricted Working Space, Add	5.30	
22 07 19 00-0085 LF 1-1/4" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	30.08	6.54
For Single Layer Of Felt Finish, Add	1.29	
For Work In Restricted Working Space, Add	5.33	
22 07 19 00-0086 LF 1-1/2" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	30.96	6.61
For Single Layer Of Felt Finish, Add	1.36	
For Work In Restricted Working Space, Add	5.39	
22 07 19 00-0087 LF 2" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	32.16	6.86
For Single Layer Of Felt Finish, Add	1.42	
For Work In Restricted Working Space, Add	5.59	
22 07 19 00-0088 LF 2-1/2" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	33.91	7.09
For Single Layer Of Felt Finish, Add	1.54	
For Work In Restricted Working Space, Add	5.78	
22 07 19 00-0089 LF 3" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	35.54	7.35
For Single Layer Of Felt Finish, Add	1.64	
For Work In Restricted Working Space, Add	5.99	
22 07 19 00-0090 LF 4" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	39.21	7.76
For Single Layer Of Felt Finish, Add	1.90	
For Work In Restricted Working Space, Add	6.32	
22 07 19 00-0091 LF 6" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	44.91	8.81
For Single Layer Of Felt Finish, Add	2.20	
For Work In Restricted Working Space, Add	7.18	
22 07 19 00-0092 LF 8" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	59.30	9.81
For Single Layer Of Felt Finish, Add	3.43	
For Work In Restricted Working Space, Add	8.00	
22 07 19 00-0093 LF 10" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	70.71	11.33
For Single Layer Of Felt Finish, Add	4.19	
For Work In Restricted Working Space, Add	9.23	
22 07 19 00-0094 LF 12" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	80.78	14.08
For Single Layer Of Felt Finish, Add	4.46	
For Work In Restricted Working Space, Add	11.48	
22 07 19 00-0095 LF 14" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	91.16	15.37
For Single Layer Of Felt Finish, Add	5.18	
For Work In Restricted Working Space, Add	12.53	
22 07 19 00-0096 LF 16" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	107.80	19.65
For Single Layer Of Felt Finish, Add	5.71	
For Work In Restricted Working Space, Add	16.01	
22 07 19 00-0097 LF 18" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	115.77	20.63
For Single Layer Of Felt Finish, Add	6.27	
For Work In Restricted Working Space, Add	16.82	
22 07 19 00-0098 LF 20" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	131.46	23.59
For Single Layer Of Felt Finish, Add	7.07	
For Work In Restricted Working Space, Add	19.23	
22 07 19 00-0099 LF 24" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	154.86	28.49
For Single Layer Of Felt Finish, Add	8.13	
For Work In Restricted Working Space, Add	23.23	
22 07 19 00-0100 3-1/2" Thick Fiberglass Pipe Insulation (22 07 19 00-0001)		
22 07 19 00-0101 LF 1/2" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	30.20	6.99
For Single Layer Of Felt Finish, Add	1.16	
For Work In Restricted Working Space, Add	5.75	
22 07 19 00-0102 LF 3/4" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	30.62	6.99
For Single Layer Of Felt Finish, Add	1.20	
For Work In Restricted Working Space, Add	5.75	
22 07 19 00-0103 LF 1" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	32.02	6.99
For Single Layer Of Felt Finish, Add	1.34	
For Work In Restricted Working Space, Add	5.78	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0104	LF		1-1/4" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	32.85	7.14
			<i>For Single Layer Of Felt Finish, Add</i>	1.41	
			<i>For Work In Restricted Working Space, Add</i>	5.82	
22 07 19 00-0105	LF		1-1/2" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	33.84	7.14
			<i>For Single Layer Of Felt Finish, Add</i>	1.49	
			<i>For Work In Restricted Working Space, Add</i>	5.90	
22 07 19 00-0106	LF		2" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	35.09	7.43
			<i>For Single Layer Of Felt Finish, Add</i>	1.55	
			<i>For Work In Restricted Working Space, Add</i>	6.09	
22 07 19 00-0107	LF		2-1/2" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	37.01	7.72
			<i>For Single Layer Of Felt Finish, Add</i>	1.68	
			<i>For Work In Restricted Working Space, Add</i>	6.31	
22 07 19 00-0108	LF		3" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	38.68	8.00
			<i>For Single Layer Of Felt Finish, Add</i>	1.78	
			<i>For Work In Restricted Working Space, Add</i>	6.53	
22 07 19 00-0109	LF		4" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	42.84	8.45
			<i>For Single Layer Of Felt Finish, Add</i>	2.08	
			<i>For Work In Restricted Working Space, Add</i>	6.90	
22 07 19 00-0110	LF		6" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	49.03	9.61
			<i>For Single Layer Of Felt Finish, Add</i>	2.41	
			<i>For Work In Restricted Working Space, Add</i>	7.84	
22 07 19 00-0111	LF		8" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	64.75	10.63
			<i>For Single Layer Of Felt Finish, Add</i>	3.74	
			<i>For Work In Restricted Working Space, Add</i>	8.73	
22 07 19 00-0112	LF		10" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	77.23	12.23
			<i>For Single Layer Of Felt Finish, Add</i>	4.58	
			<i>For Work In Restricted Working Space, Add</i>	10.07	
22 07 19 00-0113	LF		12" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	88.21	15.29
			<i>For Single Layer Of Felt Finish, Add</i>	4.88	
			<i>For Work In Restricted Working Space, Add</i>	12.52	
22 07 19 00-0114	LF		14" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	99.58	16.74
			<i>For Single Layer Of Felt Finish, Add</i>	5.67	
			<i>For Work In Restricted Working Space, Add</i>	13.67	
22 07 19 00-0115	LF		16" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	117.75	21.26
			<i>For Single Layer Of Felt Finish, Add</i>	6.25	
			<i>For Work In Restricted Working Space, Add</i>	17.47	
22 07 19 00-0116	LF		18" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	126.43	22.42
			<i>For Single Layer Of Felt Finish, Add</i>	6.85	
			<i>For Work In Restricted Working Space, Add</i>	18.35	
22 07 19 00-0117	LF		20" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	143.61	25.63
			<i>For Single Layer Of Felt Finish, Add</i>	7.74	
			<i>For Work In Restricted Working Space, Add</i>	20.98	
22 07 19 00-0118	LF		24" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	169.13	30.87
			<i>For Single Layer Of Felt Finish, Add</i>	8.89	
			<i>For Work In Restricted Working Space, Add</i>	25.34	
22 07 19 00-0119 4" Thick Fiberglass Pipe Insulation (22 07 19 00-0001)					
22 07 19 00-0120	LF		1/2" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	34.18	7.86
			<i>For Single Layer Of Felt Finish, Add</i>	1.36	
			<i>For Work In Restricted Working Space, Add</i>	6.38	
22 07 19 00-0121	LF		3/4" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	34.64	7.86
			<i>For Single Layer Of Felt Finish, Add</i>	1.40	
			<i>For Work In Restricted Working Space, Add</i>	6.38	
22 07 19 00-0122	LF		1" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	35.96	7.86
			<i>For Single Layer Of Felt Finish, Add</i>	1.50	
			<i>For Work In Restricted Working Space, Add</i>	6.49	
22 07 19 00-0123	LF		1-1/4" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	37.03	8.00
			<i>For Single Layer Of Felt Finish, Add</i>	1.59	
			<i>For Work In Restricted Working Space, Add</i>	6.57	
22 07 19 00-0124	LF		1-1/2" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	38.54	8.30
			<i>For Single Layer Of Felt Finish, Add</i>	1.68	
			<i>For Work In Restricted Working Space, Add</i>	6.77	
22 07 19 00-0125	LF		2" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	39.93	8.59
			<i>For Single Layer Of Felt Finish, Add</i>	1.75	
			<i>For Work In Restricted Working Space, Add</i>	6.98	
22 07 19 00-0126	LF		2-1/2" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	41.63	8.59
			<i>For Single Layer Of Felt Finish, Add</i>	1.89	
			<i>For Work In Restricted Working Space, Add</i>	7.09	
22 07 19 00-0127	LF		3" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	43.67	9.03
			<i>For Single Layer Of Felt Finish, Add</i>	2.01	
			<i>For Work In Restricted Working Space, Add</i>	7.35	
22 07 19 00-0128	LF		4" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	48.16	9.46
			<i>For Single Layer Of Felt Finish, Add</i>	2.34	
			<i>For Work In Restricted Working Space, Add</i>	7.76	
22 07 19 00-0129	LF		6" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	55.14	10.78
			<i>For Single Layer Of Felt Finish, Add</i>	2.71	
			<i>For Work In Restricted Working Space, Add</i>	8.81	
22 07 19 00-0130	LF		8" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	72.85	11.64
			<i>For Single Layer Of Felt Finish, Add</i>	4.21	
			<i>For Work In Restricted Working Space, Add</i>	9.82	
22 07 19 00-0131	LF		10" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	86.90	13.84
			<i>For Single Layer Of Felt Finish, Add</i>	5.15	
			<i>For Work In Restricted Working Space, Add</i>	11.34	

22 Plumbing
22 07 Plumbing Insulation
22 07 19 Plumbing Piping Insulation



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0132 LF 12" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	99.26	17.18
For Single Layer Of Felt Finish, Add	5.49	
For Work In Restricted Working Space, Add	14.09	
22 07 19 00-0133 LF 14" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	112.06	18.78
For Single Layer Of Felt Finish, Add	6.38	
For Work In Restricted Working Space, Add	15.39	
22 07 19 00-0134 LF 16" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	132.53	24.02
For Single Layer Of Felt Finish, Add	7.03	
For Work In Restricted Working Space, Add	19.67	
22 07 19 00-0135 LF 18" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	142.17	25.19
For Single Layer Of Felt Finish, Add	7.71	
For Work In Restricted Working Space, Add	20.62	
22 07 19 00-0136 LF 20" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	159.64	28.83
For Single Layer Of Felt Finish, Add	8.50	
For Work In Restricted Working Space, Add	23.60	
22 07 19 00-0137 LF 24" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	190.31	34.80
For Single Layer Of Felt Finish, Add	10.00	
For Work In Restricted Working Space, Add	28.51	
22 07 19 00-0138 LF 26" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	217.71	41.06
For Single Layer Of Felt Finish, Add	11.10	
For Work In Restricted Working Space, Add	33.60	
22 07 19 00-0139 LF 28" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	246.10	48.34
For Single Layer Of Felt Finish, Add	11.99	
For Work In Restricted Working Space, Add	39.57	
22 07 19 00-0140 LF 30" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	278.44	57.08
For Single Layer Of Felt Finish, Add	12.83	
For Work In Restricted Working Space, Add	46.87	
22 07 19 00-0141 LF 36" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	337.49	72.57
For Single Layer Of Felt Finish, Add	14.58	
For Work In Restricted Working Space, Add	59.60	
22 07 19 00-0142 LF 42" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	396.54	88.38
For Single Layer Of Felt Finish, Add	16.32	
For Work In Restricted Working Space, Add	72.32	
22 07 19 00-0143 LF 44" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	427.18	97.12
For Single Layer Of Felt Finish, Add	16.95	
For Work In Restricted Working Space, Add	79.71	
22 07 19 00-0144 LF 46" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	454.58	104.55
For Single Layer Of Felt Finish, Add	17.64	
For Work In Restricted Working Space, Add	85.99	
22 07 19 00-0145 4-1/2" Thick Fiberglass Pipe Insulation (22 07 19 00-0001)		
22 07 19 00-0146 LF 1/2" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	37.54	8.46
For Single Layer Of Felt Finish, Add	1.54	
For Work In Restricted Working Space, Add	6.86	
22 07 19 00-0147 LF 3/4" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	38.08	8.46
For Single Layer Of Felt Finish, Add	1.60	
For Work In Restricted Working Space, Add	6.86	
22 07 19 00-0148 LF 1" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	39.57	8.46
For Single Layer Of Felt Finish, Add	1.71	
For Work In Restricted Working Space, Add	6.98	
22 07 19 00-0149 LF 1-1/4" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	40.76	8.61
For Single Layer Of Felt Finish, Add	1.81	
For Work In Restricted Working Space, Add	7.06	
22 07 19 00-0150 LF 1-1/2" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	42.42	8.92
For Single Layer Of Felt Finish, Add	1.91	
For Work In Restricted Working Space, Add	7.28	
22 07 19 00-0151 LF 2" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	43.97	9.23
For Single Layer Of Felt Finish, Add	1.99	
For Work In Restricted Working Space, Add	7.51	
22 07 19 00-0152 LF 2-1/2" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	45.89	9.23
For Single Layer Of Felt Finish, Add	2.15	
For Work In Restricted Working Space, Add	7.62	
22 07 19 00-0153 LF 3" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	48.16	9.70
For Single Layer Of Felt Finish, Add	2.29	
For Work In Restricted Working Space, Add	7.90	
22 07 19 00-0154 LF 4" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	53.16	10.18
For Single Layer Of Felt Finish, Add	2.66	
For Work In Restricted Working Space, Add	8.34	
22 07 19 00-0155 LF 6" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	60.90	11.58
For Single Layer Of Felt Finish, Add	3.08	
For Work In Restricted Working Space, Add	9.47	
22 07 19 00-0156 LF 8" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	80.82	12.52
For Single Layer Of Felt Finish, Add	4.79	
For Work In Restricted Working Space, Add	10.56	
22 07 19 00-0157 LF 10" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	96.50	14.87
For Single Layer Of Felt Finish, Add	5.87	
For Work In Restricted Working Space, Add	12.19	
22 07 19 00-0158 LF 12" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	110.00	18.47
For Single Layer Of Felt Finish, Add	6.25	
For Work In Restricted Working Space, Add	15.15	
22 07 19 00-0159 LF 14" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	124.27	20.19
For Single Layer Of Felt Finish, Add	7.26	
For Work In Restricted Working Space, Add	16.54	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0160	LF		16" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	146.67	25.83
			<i>For Single Layer Of Felt Finish, Add</i>	8.00	
			<i>For Work In Restricted Working Space, Add</i>	21.15	
22 07 19 00-0161	LF		18" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	157.44	27.08
			<i>For Single Layer Of Felt Finish, Add</i>	8.77	
			<i>For Work In Restricted Working Space, Add</i>	22.16	
22 07 19 00-0162	LF		20" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	176.67	30.99
			<i>For Single Layer Of Felt Finish, Add</i>	9.67	
			<i>For Work In Restricted Working Space, Add</i>	25.37	
22 07 19 00-0163	LF		24" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	210.54	37.41
			<i>For Single Layer Of Felt Finish, Add</i>	11.38	
			<i>For Work In Restricted Working Space, Add</i>	30.65	
22 07 19 00-0164	LF		26" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	240.67	44.14
			<i>For Single Layer Of Felt Finish, Add</i>	12.63	
			<i>For Work In Restricted Working Space, Add</i>	36.12	
22 07 19 00-0165	LF		28" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	271.70	51.96
			<i>For Single Layer Of Felt Finish, Add</i>	13.64	
			<i>For Work In Restricted Working Space, Add</i>	42.53	
22 07 19 00-0166	LF		30" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	306.99	61.35
			<i>For Single Layer Of Felt Finish, Add</i>	14.60	
			<i>For Work In Restricted Working Space, Add</i>	50.39	
22 07 19 00-0167	LF		36" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	371.50	78.01
			<i>For Single Layer Of Felt Finish, Add</i>	16.59	
			<i>For Work In Restricted Working Space, Add</i>	64.06	
22 07 19 00-0168	LF		42" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	436.03	95.01
			<i>For Single Layer Of Felt Finish, Add</i>	18.57	
			<i>For Work In Restricted Working Space, Add</i>	77.75	
22 07 19 00-0169	LF		44" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	469.34	104.40
			<i>For Single Layer Of Felt Finish, Add</i>	19.29	
			<i>For Work In Restricted Working Space, Add</i>	85.69	
22 07 19 00-0170	LF		46" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	499.20	112.38
			<i>For Single Layer Of Felt Finish, Add</i>	20.06	
			<i>For Work In Restricted Working Space, Add</i>	92.44	
22 07 19 00-0171			5" Thick Fiberglass Pipe Insulation (22 07 19 00-0001)		
22 07 19 00-0172	LF		1/2" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	41.67	9.30
			<i>For Single Layer Of Felt Finish, Add</i>	1.73	
			<i>For Work In Restricted Working Space, Add</i>	7.55	
22 07 19 00-0173	LF		3/4" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	42.25	9.30
			<i>For Single Layer Of Felt Finish, Add</i>	1.80	
			<i>For Work In Restricted Working Space, Add</i>	7.55	
22 07 19 00-0174	LF		1" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	43.91	9.30
			<i>For Single Layer Of Felt Finish, Add</i>	1.92	
			<i>For Work In Restricted Working Space, Add</i>	7.67	
22 07 19 00-0175	LF		1-1/4" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	45.27	9.47
			<i>For Single Layer Of Felt Finish, Add</i>	2.03	
			<i>For Work In Restricted Working Space, Add</i>	7.77	
22 07 19 00-0176	LF		1-1/2" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	47.13	9.81
			<i>For Single Layer Of Felt Finish, Add</i>	2.14	
			<i>For Work In Restricted Working Space, Add</i>	8.01	
22 07 19 00-0177	LF		2" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	48.82	10.16
			<i>For Single Layer Of Felt Finish, Add</i>	2.24	
			<i>For Work In Restricted Working Space, Add</i>	8.26	
22 07 19 00-0178	LF		2-1/2" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	50.98	10.16
			<i>For Single Layer Of Felt Finish, Add</i>	2.42	
			<i>For Work In Restricted Working Space, Add</i>	8.39	
22 07 19 00-0179	LF		3" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	53.53	10.68
			<i>For Single Layer Of Felt Finish, Add</i>	2.58	
			<i>For Work In Restricted Working Space, Add</i>	8.69	
22 07 19 00-0180	LF		4" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	59.13	11.19
			<i>For Single Layer Of Felt Finish, Add</i>	3.00	
			<i>For Work In Restricted Working Space, Add</i>	9.18	
22 07 19 00-0181	LF		6" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	67.73	12.74
			<i>For Single Layer Of Felt Finish, Add</i>	3.47	
			<i>For Work In Restricted Working Space, Add</i>	10.41	
22 07 19 00-0182	LF		8" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	90.03	13.78
			<i>For Single Layer Of Felt Finish, Add</i>	5.39	
			<i>For Work In Restricted Working Space, Add</i>	11.61	
22 07 19 00-0183	LF		10" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	107.54	16.36
			<i>For Single Layer Of Felt Finish, Add</i>	6.60	
			<i>For Work In Restricted Working Space, Add</i>	13.41	
22 07 19 00-0184	LF		12" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	122.48	20.32
			<i>For Single Layer Of Felt Finish, Add</i>	7.03	
			<i>For Work In Restricted Working Space, Add</i>	16.66	
22 07 19 00-0185	LF		14" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	138.43	22.21
			<i>For Single Layer Of Felt Finish, Add</i>	8.17	
			<i>For Work In Restricted Working Space, Add</i>	18.20	
22 07 19 00-0186	LF		16" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	163.24	28.40
			<i>For Single Layer Of Felt Finish, Add</i>	9.00	
			<i>For Work In Restricted Working Space, Add</i>	23.27	
22 07 19 00-0187	LF		18" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	175.26	29.78
			<i>For Single Layer Of Felt Finish, Add</i>	9.87	
			<i>For Work In Restricted Working Space, Add</i>	24.38	



MINOR CSI UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0188	LF 20" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ) <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	196.66 10.88 27.91	34.10
22 07 19 00-0189	LF 24" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ) <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	234.31 12.80 33.71	41.15
22 07 19 00-0190	LF 26" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ) <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	267.74 14.21 39.73	48.55
22 07 19 00-0191	LF 28" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ) <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	302.13 15.35 46.79	57.16
22 07 19 00-0192	LF 30" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ) <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	341.17 16.42 55.43	67.50
22 07 19 00-0193	LF 36" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ) <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	412.61 18.66 70.47	85.82
22 07 19 00-0194	LF 42" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ) <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	484.05 20.89 85.52	104.51
22 07 19 00-0195	LF 44" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ) <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	520.86 21.70 94.26	114.85
22 07 19 00-0196	LF 46" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ) <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	553.91 22.57 101.68	123.62
22 07 19 00-0197	Foamglas (Cellular Glass) Pipe Insulation, Rigid, Closed Cell <small>(22 07 19)</small> Note: Includes adhesive. Excludes fittings (a location requiring purchase of an insulation fitting or cutting and fitting straight sections, excludes couplings, plugs, etc.). For fittings/valves up to 3" add 2 LF for each fitting/valve or 3 LF for each flanged/grooved joint. For fittings/valves >3" add 3 LF for each fitting/valve or 4 LF for each flanged/grooved joint.		
22 07 19 00-0198	1" Thick Foamglas Pipe Insulation <small>(22 07 19 00-0197)</small>		
22 07 19 00-0199	LF 1/2" Diameter Pipe, 1" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	24.31 6.46	7.11
22 07 19 00-0200	LF 3/4" Diameter Pipe, 1" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	25.02 6.46	7.11
22 07 19 00-0201	LF 1" Diameter Pipe, 1" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	26.05 6.55	7.21
22 07 19 00-0202	LF 1-1/4" Diameter Pipe, 1" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	26.60 6.65	7.31
22 07 19 00-0203	LF 1-1/2" Diameter Pipe, 1" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	27.38 6.74	7.41
22 07 19 00-0204	LF 2" Diameter Pipe, 1" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	28.92 6.93	7.61
22 07 19 00-0205	LF 2-1/2" Diameter Pipe, 1" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	30.88 7.21	7.93
22 07 19 00-0206	LF 3" Diameter Pipe, 1" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	32.89 7.40	8.14
22 07 19 00-0207	LF 4" Diameter Pipe, 1" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	37.36 7.96	8.75
22 07 19 00-0208	LF 6" Diameter Pipe, 1" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	46.32 8.98	9.87
22 07 19 00-0209	1-1/2" Thick Foamglas Pipe Insulation <small>(22 07 19 00-0197)</small>		
22 07 19 00-0210	LF 1/2" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	28.02 6.93	7.87
22 07 19 00-0211	LF 3/4" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	28.47 6.93	7.87
22 07 19 00-0212	LF 1" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	29.22 7.02	7.98
22 07 19 00-0213	LF 1-1/4" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	29.86 7.11	8.08
22 07 19 00-0214	LF 1-1/2" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	30.45 7.21	8.19
22 07 19 00-0215	LF 2" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	32.63 7.45	8.46
22 07 19 00-0216	LF 2-1/2" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	36.19 7.73	8.78
22 07 19 00-0217	LF 3" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	39.33 7.96	9.04
22 07 19 00-0218	LF 4" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	43.97 8.47	9.62
22 07 19 00-0219	LF 6" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	51.36 9.59	10.91
22 07 19 00-0220	LF 8" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	57.40 10.70	12.16
22 07 19 00-0221	LF 10" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	68.97 12.34	14.03
22 07 19 00-0222	LF 12" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	82.56 15.33	17.43



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0223 LF 14" Diameter Pipe, 1-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	91.35 16.66	18.33
22 07 19 00-0224 LF 16" Diameter Pipe, 1-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	100.85 18.61	20.47
22 07 19 00-0225 LF 18" Diameter Pipe, 1-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	115.29 22.02	24.21
22 07 19 00-0226 LF 20" Diameter Pipe, 1-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	128.56 24.38	26.81
22 07 19 00-0227 LF 24" Diameter Pipe, 1-1/2" Thick Fiberglass Insulation..... <i>For Work In Restricted Working Space, Add</i>	156.86 27.00	29.70
22 07 19 00-0228 2" Thick Foamglas Pipe Insulation (22 07 19 00-0197)		
22 07 19 00-0229 LF 1/2" Diameter Pipe, 2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	31.09 7.40	8.14
22 07 19 00-0230 LF 3/4" Diameter Pipe, 2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	31.78 7.40	8.14
22 07 19 00-0231 LF 1" Diameter Pipe, 2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	32.77 7.49	8.22
22 07 19 00-0232 LF 1-1/4" Diameter Pipe, 2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	34.16 7.58	8.35
22 07 19 00-0233 LF 1-1/2" Diameter Pipe, 2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	35.59 7.67	8.45
22 07 19 00-0234 LF 2" Diameter Pipe, 2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	39.12 7.96	8.75
22 07 19 00-0235 LF 2-1/2" Diameter Pipe, 2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	40.92 8.24	9.07
22 07 19 00-0236 LF 3" Diameter Pipe, 2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	43.56 8.51	9.36
22 07 19 00-0237 LF 4" Diameter Pipe, 2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	48.42 8.99	9.88
22 07 19 00-0238 LF 6" Diameter Pipe, 2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	57.35 10.21	11.22
22 07 19 00-0239 LF 8" Diameter Pipe, 2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	63.86 11.38	12.52
22 07 19 00-0240 LF 10" Diameter Pipe, 2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	76.95 13.12	14.43
22 07 19 00-0241 LF 12" Diameter Pipe, 2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	95.38 16.31	17.94
22 07 19 00-0242 LF 14" Diameter Pipe, 2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	102.29 17.80	19.59
22 07 19 00-0243 LF 16" Diameter Pipe, 2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	122.72 22.75	25.03
22 07 19 00-0244 LF 18" Diameter Pipe, 2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	132.83 23.88	26.28
22 07 19 00-0245 LF 20" Diameter Pipe, 2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	147.87 27.31	30.03
22 07 19 00-0246 LF 24" Diameter Pipe, 2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	184.17 32.99	36.29
22 07 19 00-0247 2-1/2" Thick Foamglas Pipe Insulation (22 07 19 00-0197)		
22 07 19 00-0248 LF 1/2" Diameter Pipe, 2-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	36.75 8.02	8.83
22 07 19 00-0249 LF 3/4" Diameter Pipe, 2-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	37.91 8.01	8.81
22 07 19 00-0250 LF 1" Diameter Pipe, 2-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	39.55 8.15	8.96
22 07 19 00-0251 LF 1-1/4" Diameter Pipe, 2-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	40.93 8.21	9.03
22 07 19 00-0252 LF 1-1/2" Diameter Pipe, 2-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	42.33 8.27	9.10
22 07 19 00-0253 LF 2" Diameter Pipe, 2-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	45.11 8.61	9.46
22 07 19 00-0254 LF 2-1/2" Diameter Pipe, 2-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	47.74 8.91	9.80
22 07 19 00-0255 LF 3" Diameter Pipe, 2-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	51.38 9.22	10.14
22 07 19 00-0256 LF 4" Diameter Pipe, 2-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	56.94 9.72	10.69
22 07 19 00-0257 LF 6" Diameter Pipe, 2-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	67.50 11.05	12.16
22 07 19 00-0258 LF 8" Diameter Pipe, 2-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	75.21 12.32	13.55
22 07 19 00-0259 LF 10" Diameter Pipe, 2-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	85.97 14.21	15.63
22 07 19 00-0260 LF 12" Diameter Pipe, 2-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	107.01 17.66	19.43
22 07 19 00-0261 LF 14" Diameter Pipe, 2-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	112.49 19.28	21.20
22 07 19 00-0262 LF 16" Diameter Pipe, 2-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	134.59 24.63	27.10
22 07 19 00-0263 LF 18" Diameter Pipe, 2-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	145.41 25.87	28.46

22 Plumbing**22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0264 LF 20" Diameter Pipe, 2-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	167.00 29.57	32.52
22 07 19 00-0265 LF 24" Diameter Pipe, 2-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	207.80 35.72	39.29
22 07 19 00-0266 3" Thick Foamglas Pipe Insulation (22 07 19 00-0197)		
22 07 19 00-0267 LF 1/2" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	43.20 8.53	9.38
22 07 19 00-0268 LF 3/4" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	43.91 8.53	9.38
22 07 19 00-0269 LF 1" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	45.09 8.67	9.54
22 07 19 00-0270 LF 1-1/4" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	46.00 8.73	9.59
22 07 19 00-0271 LF 1-1/2" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	46.97 8.80	9.68
22 07 19 00-0272 LF 2" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	50.17 9.16	10.07
22 07 19 00-0273 LF 2-1/2" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	53.21 9.47	10.43
22 07 19 00-0274 LF 3" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	59.48 9.81	10.79
22 07 19 00-0275 LF 4" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	67.02 10.34	11.37
22 07 19 00-0276 LF 6" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	73.82 11.75	12.93
22 07 19 00-0277 LF 8" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	83.21 13.11	14.42
22 07 19 00-0278 LF 10" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	98.74 15.11	16.63
22 07 19 00-0279 LF 12" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	115.92 18.78	20.66
22 07 19 00-0280 LF 14" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	124.52 20.51	22.55
22 07 19 00-0281 LF 16" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	150.39 26.21	28.83
22 07 19 00-0282 LF 18" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	160.46 27.52	30.27
22 07 19 00-0283 LF 20" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	187.23 31.45	34.60
22 07 19 00-0284 LF 24" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	228.45 38.00	41.81
22 07 19 00-0285 3-1/2" Thick Foamglas Pipe Insulation (22 07 19 00-0197)		
22 07 19 00-0286 LF 1/2" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	52.11 10.34	11.37
22 07 19 00-0287 LF 3/4" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	53.00 10.34	11.37
22 07 19 00-0288 LF 1" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	54.12 10.41	11.44
22 07 19 00-0289 LF 1-1/4" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	55.23 10.48	11.51
22 07 19 00-0290 LF 1-1/2" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	56.56 10.61	11.66
22 07 19 00-0291 LF 2" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	61.53 10.97	12.07
22 07 19 00-0292 LF 2-1/2" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	66.58 11.36	12.49
22 07 19 00-0293 LF 3" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	70.08 11.75	12.93
22 07 19 00-0294 LF 4" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	74.89 12.42	13.67
22 07 19 00-0295 LF 6" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	86.02 14.11	15.52
22 07 19 00-0296 LF 8" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	97.50 15.71	17.28
22 07 19 00-0297 LF 10" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	115.95 18.13	19.95
22 07 19 00-0298 LF 12" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	138.11 22.54	24.80
22 07 19 00-0299 LF 14" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	145.15 24.61	27.07
22 07 19 00-0300 LF 16" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	175.92 31.45	34.60
22 07 19 00-0301 LF 18" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	191.84 33.02	36.33
22 07 19 00-0302 LF 20" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	218.59 37.77	41.55
22 07 19 00-0303 LF 24" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	267.65 45.60	50.16



	MINOR	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0304		4" Thick Foamglas Pipe Insulation <small>(22 07 19 00-0197)</small>		
	22 07 19 00-0305	LF 1/2" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	63.55 12.70	13.98
	22 07 19 00-0306	LF 3/4" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	64.70 12.70	13.98
	22 07 19 00-0307	LF 1" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	66.58 12.92	14.21
	22 07 19 00-0308	LF 1-1/4" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	68.23 13.07	14.39
	22 07 19 00-0309	LF 1-1/2" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	70.75 13.48	14.84
	22 07 19 00-0310	LF 2" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	75.79 13.90	15.29
	22 07 19 00-0311	LF 2-1/2" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	80.13 14.12	15.53
	22 07 19 00-0312	LF 3" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	83.95 14.64	16.11
	22 07 19 00-0313	LF 4" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	92.07 16.33	17.96
	22 07 19 00-0314	LF 6" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	105.18 17.53	19.27
	22 07 19 00-0315	LF 8" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	118.00 19.01	20.91
	22 07 19 00-0316	LF 10" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	135.93 22.58	24.84
	22 07 19 00-0317	LF 12" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	160.42 28.04	30.86
	22 07 19 00-0318	LF 14" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	174.57 30.64	33.69
	22 07 19 00-0319	LF 16" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	209.92 39.17	43.08
	22 07 19 00-0320	LF 18" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	231.11 41.05	45.16
	22 07 19 00-0321	LF 20" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	260.00 46.98	51.67
	22 07 19 00-0322	LF 24" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	327.02 56.75	62.44
22 07 19 00-0323		Flexible Polyethylene Tubing Closed Cell Foam Insulation <small>(22 07 19)</small> Note: UV resistant standard temperature (-90 Degree F To +212 Degree F). For elbow fittings/valves add 1 LF for each fitting/valve, for tee fittings add 2 LF for each fitting.		
22 07 19 00-0324		3/8" Wall Flexible Polyethylene Tubing Foam Insulation <small>(22 07 19 00-0323)</small>		
	22 07 19 00-0325	LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	9.21 2.62	4.35
	22 07 19 00-0326	LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	9.23 2.62	4.35
	22 07 19 00-0327	LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	9.60 2.71	4.51
	22 07 19 00-0328	LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	9.97 2.80	4.66
	22 07 19 00-0329	LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	10.31 2.84	4.75
	22 07 19 00-0330	LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	10.70 2.89	4.82
	22 07 19 00-0331	LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	10.85 2.90	4.82
	22 07 19 00-0332	LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	11.27 2.92	4.82
	22 07 19 00-0333	LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	12.13 3.00	4.97
	22 07 19 00-0334	LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	12.51 3.05	5.05
22 07 19 00-0335		1/2" Wall Flexible Polyethylene Tubing Foam Insulation <small>(22 07 19 00-0323)</small>		
	22 07 19 00-0336	LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	10.20 2.84	4.75
	22 07 19 00-0337	LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	10.31 2.87	4.75
	22 07 19 00-0338	LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	10.47 2.89	4.82
	22 07 19 00-0339	LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	10.66 2.91	4.85
	22 07 19 00-0340	LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	11.15 2.98	4.97
	22 07 19 00-0341	LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	11.57 3.03	5.05
	22 07 19 00-0342	LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	12.03 3.08	5.13
	22 07 19 00-0343	LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	12.59 3.12	5.20



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0344	LF	2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	13.57 3.21	5.36
22 07 19 00-0345	LF	3" I.D. (3-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	14.57 3.26	5.43
22 07 19 00-0346	LF	3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	15.51 3.30	5.50
22 07 19 00-0347	LF	4" I.D. (4-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	16.09 3.35	5.58
22 07 19 00-0348		3/4" Wall Flexible Polyethylene Tubing Foam Insulation (22 07 19 00-0323)		
22 07 19 00-0349	LF	1/4" I.D. (3/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	11.31 3.08	5.13
22 07 19 00-0350	LF	3/8" I.D. (1/2" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	11.46 3.12	5.20
22 07 19 00-0351	LF	1/2" I.D. (5/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	12.14 3.21	5.36
22 07 19 00-0352	LF	3/4" I.D. (7/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	12.45 3.26	5.43
22 07 19 00-0353	LF	1" I.D. (1-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	13.29 3.35	5.58
22 07 19 00-0354	LF	1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	14.11 3.39	5.66
22 07 19 00-0355	LF	1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	14.48 3.41	5.69
22 07 19 00-0356	LF	2" I.D. (2-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	15.97 3.44	5.74
22 07 19 00-0357	LF	2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	18.06 3.53	5.88
22 07 19 00-0358	LF	3" I.D. (3-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	18.20 3.58	5.97
22 07 19 00-0359	LF	3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	19.69 3.63	6.04
22 07 19 00-0360	LF	4" I.D. (4-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	20.32 3.67	6.11
22 07 19 00-0361		1" Wall Flexible Polyethylene Tubing Foam Insulation (22 07 19 00-0323)		
22 07 19 00-0362	LF	1/4" I.D. (3/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	12.82 3.39	5.66
22 07 19 00-0363	LF	3/8" I.D. (1/2" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	13.13 3.44	5.74
22 07 19 00-0364	LF	1/2" I.D. (5/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	14.09 3.53	5.88
22 07 19 00-0365	LF	3/4" I.D. (7/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	14.38 3.58	5.97
22 07 19 00-0366	LF	1" I.D. (1-1/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	15.78 3.67	6.11
22 07 19 00-0367	LF	1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	16.51 3.76	6.27
22 07 19 00-0368	LF	1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	16.80 3.80	6.34
22 07 19 00-0369	LF	2" I.D. (2-1/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	18.13 3.85	6.43
22 07 19 00-0370	LF	2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	19.12 3.95	6.59
22 07 19 00-0371	LF	3" I.D. (3-1/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	19.97 3.99	6.66
22 07 19 00-0372		Flexible Elastomeric Tubing Closed Cell Foam Insulation (22 07 19) Note: For elbow fittings/valves add 1 LF for each fitting/valve, for tee fittings add 2 LF for each fitting.		
22 07 19 00-0373		3/8" Wall Flexible Elastomeric Tubing Foam Insulation (22 07 19 00-0372)		
22 07 19 00-0374	LF	1/4" I.D. (3/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	9.48 2.62	4.35
22 07 19 00-0375	LF	3/8" I.D. (1/2" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	9.62 2.62	4.35
22 07 19 00-0376	LF	1/2" I.D. (5/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	9.99 2.71	4.51
22 07 19 00-0377	LF	5/8" I.D. (3/4" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	10.20 2.75	4.58
22 07 19 00-0378	LF	3/4" I.D. (7/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	10.43 2.80	4.66
22 07 19 00-0379	LF	1" I.D. (1-1/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	10.73 2.84	4.75
22 07 19 00-0380	LF	1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	11.00 2.89	4.82
22 07 19 00-0381	LF	1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	11.24 2.90	4.82
22 07 19 00-0382	LF	1-1/2" IPS (1-7/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	11.45 2.92	4.82
22 07 19 00-0383	LF	2" I.D. (2-1/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	11.68 2.93	4.90



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0384 LF 2" IPS (2-3/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	12.02 2.98	4.97
22 07 19 00-0385 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	12.30 3.00	4.97
22 07 19 00-0386 LF 2-1/2" IPS (2-7/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	12.52 3.03	5.05
22 07 19 00-0387 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	12.80 3.05	5.05
22 07 19 00-0388 LF 3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	13.40 3.08	5.13
22 07 19 00-0389 LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	14.12 3.12	5.20
22 07 19 00-0390 LF 4" IPS (4-1/2" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	14.89 3.14	5.23
 22 07 19 00-0391 1/2" Wall Flexible Elastomeric Tubing Foam Insulation (22 07 19 00-0372)		
22 07 19 00-0392 LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	10.64 2.84	4.75
22 07 19 00-0393 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	10.77 2.87	4.75
22 07 19 00-0394 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	10.93 2.89	4.82
22 07 19 00-0395 LF 5/8" I.D. (3/4" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	11.12 2.90	4.82
22 07 19 00-0396 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	11.28 2.91	4.82
22 07 19 00-0397 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	11.70 2.98	4.97
22 07 19 00-0398 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	12.10 3.03	5.05
22 07 19 00-0399 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	12.44 3.08	5.13
22 07 19 00-0400 LF 1-1/2" IPS (1-7/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	12.78 3.10	5.17
22 07 19 00-0401 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	13.05 3.12	5.20
22 07 19 00-0402 LF 2" IPS (2-3/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	14.07 3.17	5.29
22 07 19 00-0403 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	14.68 3.21	5.36
22 07 19 00-0404 LF 2-1/2" IPS (2-7/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	15.15 3.24	5.40
22 07 19 00-0405 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	15.54 3.26	5.43
22 07 19 00-0406 LF 3" IPS (3-1/2" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	15.84 3.28	5.47
22 07 19 00-0407 LF 3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	16.09 3.30	5.50
22 07 19 00-0408 LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	17.25 3.35	5.58
22 07 19 00-0409 LF 4" IPS (4-1/2" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	17.53 3.37	5.62
22 07 19 00-0410 LF 5" I.D. (5-9/16" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	18.64 3.39	5.66
22 07 19 00-0411 LF 6" IPS (6-5/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	20.01 3.49	5.81
22 07 19 00-0412 LF 8" IPS (8-5/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	21.53 3.58	5.97
 22 07 19 00-0413 3/4" Wall Flexible Elastomeric Tubing Foam Insulation (22 07 19 00-0372)		
22 07 19 00-0414 LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	12.10 3.08	5.13
22 07 19 00-0415 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	12.41 3.12	5.20
22 07 19 00-0416 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	12.89 3.21	5.36
22 07 19 00-0417 LF 5/8" I.D. (3/4" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	13.16 3.24	5.40
22 07 19 00-0418 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	13.29 3.26	5.43
22 07 19 00-0419 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	13.97 3.35	5.58
22 07 19 00-0420 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	14.48 3.39	5.66
22 07 19 00-0421 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	15.01 3.44	5.74
22 07 19 00-0422 LF 1-1/2" IPS (1-7/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	15.14 3.44	5.74
22 07 19 00-0423 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	15.35 3.47	5.78
22 07 19 00-0424 LF 2" IPS (2-3/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	15.94 3.49	5.81



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0425	LF	2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	16.29 3.53	5.88
22 07 19 00-0426	LF	2-1/2" IPS (2-7/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	16.96 3.56	5.92
22 07 19 00-0427	LF	3" I.D. (3-1/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	17.43 3.58	5.97
22 07 19 00-0428	LF	3" IPS (3-1/2" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	18.15 3.67	6.01
22 07 19 00-0429	LF	3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	18.43 3.63	6.04
22 07 19 00-0430	LF	4" I.D. (4-1/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	19.50 3.67	6.11
22 07 19 00-0431	LF	4" IPS (4-1/2" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	20.36 3.69	6.16
22 07 19 00-0432	LF	5" IPS (5-9/16" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	21.77 3.71	6.18
22 07 19 00-0433	LF	6" IPS (6-5/8" O.D.) Diameter Pipe, 3/4" Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	23.29 3.76	6.27
22 07 19 00-0434	LF	8" IPS (8-5/8" O.D.) Diameter Pipe, 3/4" Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	25.14 3.85	6.43
22 07 19 00-0435 1" Wall Flexible Elastomeric Tubing Foam Insulation (22 07 19 00-0372)				
22 07 19 00-0436	LF	1/4" I.D. (3/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	14.03 3.39	5.65
22 07 19 00-0437	LF	3/8" I.D. (1/2" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	14.41 3.44	5.74
22 07 19 00-0438	LF	1/2" I.D. (5/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	14.92 3.53	5.88
22 07 19 00-0439	LF	5/8" I.D. (3/4" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	15.30 3.56	5.92
22 07 19 00-0440	LF	3/4" I.D. (7/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	15.64 3.58	5.97
22 07 19 00-0441	LF	1" I.D. (1-1/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	16.27 3.67	6.11
22 07 19 00-0442	LF	1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	17.22 3.76	6.27
22 07 19 00-0443	LF	1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	17.70 3.80	6.27
22 07 19 00-0444	LF	1-1/2" IPS (1-7/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	18.32 3.83	6.34
22 07 19 00-0445	LF	2" I.D. (2-1/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	18.55 3.85	6.43
22 07 19 00-0446	LF	2" IPS (2-3/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	19.87 3.90	6.51
22 07 19 00-0447	LF	2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	20.92 3.95	6.59
22 07 19 00-0448	LF	2-1/2" IPS (2-7/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	22.20 3.97	6.63
22 07 19 00-0449	LF	3" I.D. (3-1/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	22.60 3.99	6.66
22 07 19 00-0450	LF	3" IPS (3-1/2" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	23.28 4.01	6.70
22 07 19 00-0451	LF	3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	23.62 4.04	6.73
22 07 19 00-0452	LF	4" I.D. (4-1/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	26.13 4.13	6.89
22 07 19 00-0453	LF	4" IPS (4-1/2" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	27.81 4.18	6.96
22 07 19 00-0454	LF	5" IPS (5-9/16" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	30.28 4.22	7.03
22 07 19 00-0455	LF	6" IPS (6-5/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	32.92 4.31	7.19
22 07 19 00-0456 1-1/2" Wall Flexible Elastomeric Tubing Foam Insulation (22 07 19 00-0372)				
22 07 19 00-0457	LF	3/8" I.D. (1/2" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	20.38 3.80	6.33
22 07 19 00-0458	LF	1/2" I.D. (5/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	20.89 3.89	6.47
22 07 19 00-0459	LF	5/8" I.D. (3/4" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	21.28 3.91	6.51
22 07 19 00-0460	LF	3/4" I.D. (7/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	21.67 3.93	6.57
22 07 19 00-0461	LF	1" I.D. (1-1/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	22.26 4.02	6.72
22 07 19 00-0462	LF	1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	23.25 4.17	6.96
22 07 19 00-0463	LF	1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	24.49 4.21	6.86
22 07 19 00-0464	LF	1-1/2" IPS (1-7/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	25.56 4.26	7.02
22 07 19 00-0465	LF	2" I.D. (2-1/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	26.25 4.31	7.19



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0466 LF 2" IPS (2-3/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	28.29	7.28
For Work In Restricted Working Space, Add	4.36	
22 07 19 00-0467 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	30.22	7.37
For Work In Restricted Working Space, Add	4.40	
22 07 19 00-0468 LF 2-1/2" IPS (2-7/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	31.13	7.40
For Work In Restricted Working Space, Add	4.43	
22 07 19 00-0469 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	32.04	7.41
For Work In Restricted Working Space, Add	4.46	
22 07 19 00-0470 LF 3" IPS (3-1/2" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	33.10	7.45
For Work In Restricted Working Space, Add	4.47	
22 07 19 00-0471 LF 3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	33.76	7.48
For Work In Restricted Working Space, Add	4.49	
22 07 19 00-0472 LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	37.43	7.76
For Work In Restricted Working Space, Add	4.64	
22 07 19 00-0473 LF 4" IPS (4-1/2" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	39.40	7.87
For Work In Restricted Working Space, Add	4.72	
22 07 19 00-0474 LF 5" IPS (5-9/16" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	44.06	7.99
For Work In Restricted Working Space, Add	4.80	
22 07 19 00-0475 LF 6" IPS (6-5/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	48.76	8.24
For Work In Restricted Working Space, Add	4.94	
22 07 19 00-0476 2" Wall Flexible Elastomeric Tubing Foam Insulation (22 07 19 00-0372)		
22 07 19 00-0477 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	28.51	6.99
For Work In Restricted Working Space, Add	4.19	
22 07 19 00-0478 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	29.58	7.09
For Work In Restricted Working Space, Add	4.28	
22 07 19 00-0479 LF 5/8" I.D. (3/4" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	31.31	7.15
For Work In Restricted Working Space, Add	4.30	
22 07 19 00-0480 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	31.90	7.21
For Work In Restricted Working Space, Add	4.31	
22 07 19 00-0481 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	33.43	7.35
For Work In Restricted Working Space, Add	4.40	
22 07 19 00-0482 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	35.38	7.70
For Work In Restricted Working Space, Add	4.62	
22 07 19 00-0483 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	36.46	7.51
For Work In Restricted Working Space, Add	4.65	
22 07 19 00-0484 LF 1-1/2" IPS (1-7/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	38.40	7.77
For Work In Restricted Working Space, Add	4.74	
22 07 19 00-0485 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	40.27	8.03
For Work In Restricted Working Space, Add	4.83	
22 07 19 00-0486 LF 2" IPS (2-3/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	41.51	8.14
For Work In Restricted Working Space, Add	4.87	
22 07 19 00-0487 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	44.02	8.24
For Work In Restricted Working Space, Add	4.91	
22 07 19 00-0488 LF 2-1/2" IPS (2-7/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	44.34	8.25
For Work In Restricted Working Space, Add	4.94	
22 07 19 00-0489 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	46.68	8.28
For Work In Restricted Working Space, Add	4.97	
22 07 19 00-0490 LF 3" IPS (3-1/2" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	48.30	8.30
For Work In Restricted Working Space, Add	4.99	
22 07 19 00-0491 LF 3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	50.02	8.35
For Work In Restricted Working Space, Add	5.00	
22 07 19 00-0492 LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	55.89	8.74
For Work In Restricted Working Space, Add	5.22	
22 07 19 00-0493 LF 4" IPS (4-1/2" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	59.29	8.91
For Work In Restricted Working Space, Add	5.34	
22 07 19 00-0494 LF 5" IPS (5-9/16" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	60.36	9.09
For Work In Restricted Working Space, Add	5.45	
22 07 19 00-0495 LF 6" IPS (6-5/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	67.40	9.45
For Work In Restricted Working Space, Add	5.66	
22 07 19 00-0496 Flexible Polyolefin Tubing Closed Cell Foam Insulation (22 07 19)		
Note: UV stabilized, work temperature (-110 degree F to +210 degree F) 0 water vapor transmission. For elbow fittings/valves add 1 LF for each fitting/valve, for tee fittings add 2 LF for each fitting.		
22 07 19 00-0497 3/8" Wall Flexible Polyolefin Tubing Foam Insulation (22 07 19 00-0496)		
22 07 19 00-0498 LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	9.23	4.35
For Work In Restricted Working Space, Add	2.62	
22 07 19 00-0499 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	9.32	4.35
For Work In Restricted Working Space, Add	2.62	
22 07 19 00-0500 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	9.65	4.51
For Work In Restricted Working Space, Add	2.71	
22 07 19 00-0501 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	10.04	4.66
For Work In Restricted Working Space, Add	2.80	
22 07 19 00-0502 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	10.29	4.75
For Work In Restricted Working Space, Add	2.84	
22 07 19 00-0503 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	10.68	4.82
For Work In Restricted Working Space, Add	2.89	
22 07 19 00-0504 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	10.95	4.82
For Work In Restricted Working Space, Add	2.90	
22 07 19 00-0505 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	11.15	4.97
For Work In Restricted Working Space, Add	2.92	

22 Plumbing
22 07 Plumbing Insulation
22 07 19 Plumbing Piping Insulation



MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
22 07 19 00-0506	LF	2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	12.08 3.00	4.97
22 07 19 00-0507	LF	3" I.D. (3-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	12.89 3.05	5.05
22 07 19 00-0508	LF	4" I.D. (4-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	14.89 3.12	5.20
22 07 19 00-0509		1/2" Wall Flexible Polyolefin Tubing Foam Insulation (22 07 19 00-0496)		
22 07 19 00-0510	LF	1/4" I.D. (3/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	10.26 2.84	4.75
22 07 19 00-0511	LF	3/8" I.D. (1/2" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	10.36 2.87	4.75
22 07 19 00-0512	LF	1/2" I.D. (5/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	10.54 2.89	4.82
22 07 19 00-0513	LF	3/4" I.D. (7/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	10.77 2.91	4.82
22 07 19 00-0514	LF	1" I.D. (1-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	11.09 2.98	4.97
22 07 19 00-0515	LF	1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	11.53 3.03	5.05
22 07 19 00-0516	LF	1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	11.98 3.08	5.13
22 07 19 00-0517	LF	2" I.D. (2-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	12.43 3.12	5.20
22 07 19 00-0518	LF	2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	13.42 3.21	5.36
22 07 19 00-0519	LF	3" I.D. (3-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	14.27 3.26	5.43
22 07 19 00-0520	LF	4" I.D. (4-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	15.89 3.35	5.58
22 07 19 00-0521		3/4" Wall Flexible Polyolefin Tubing Foam Insulation (22 07 19 00-0496)		
22 07 19 00-0522	LF	1/4" I.D. (3/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	11.42 3.08	5.13
22 07 19 00-0523	LF	3/8" I.D. (1/2" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	11.76 3.12	5.20
22 07 19 00-0524	LF	1/2" I.D. (5/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	12.20 3.21	5.36
22 07 19 00-0525	LF	3/4" I.D. (7/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	12.79 3.26	5.43
22 07 19 00-0526	LF	1" I.D. (1-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	13.40 3.35	5.58
22 07 19 00-0527	LF	1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	14.32 3.39	5.66
22 07 19 00-0528	LF	1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	14.92 3.41	5.66
22 07 19 00-0529	LF	2" I.D. (2-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	15.61 3.44	5.74
22 07 19 00-0530	LF	2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	16.98 3.53	5.88
22 07 19 00-0531	LF	3" I.D. (3-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	18.18 3.58	5.97
22 07 19 00-0532	LF	4" I.D. (4-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	20.49 3.67	6.11
22 07 19 00-0533		1" Wall Flexible Polyolefin Tubing Foam Insulation (22 07 19 00-0496)		
22 07 19 00-0534	LF	1/4" I.D. (3/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	13.36 3.39	5.66
22 07 19 00-0535	LF	3/8" I.D. (1/2" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	13.56 3.44	5.74
22 07 19 00-0536	LF	1/2" I.D. (5/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	14.01 3.53	5.88
22 07 19 00-0537	LF	3/4" I.D. (7/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	14.84 3.58	5.97
22 07 19 00-0538	LF	1" I.D. (1-1/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	15.59 3.67	6.11
22 07 19 00-0539	LF	1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	16.36 3.76	6.27
22 07 19 00-0540	LF	1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	17.05 3.80	6.27
22 07 19 00-0541	LF	2" I.D. (2-1/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	18.57 3.85	6.43
22 07 19 00-0542	LF	2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	20.63 3.95	6.59
22 07 19 00-0543	LF	3" I.D. (3-1/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	22.08 3.99	6.66
22 07 19 00-0544		Flexible Elastomeric Unicellular Insulation (22 07 19) Note: For refrigeration piping. For elbow fittings/valves add 1 LF for each fitting/valve, for tee fittings add 2 LF for		



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
				each fitting.		
	22 07 19 00-0545			3/8" Wall Flexible Elastomeric Unicellular Insulation (22 07 19 00-0544)		
	22 07 19 00-0546	LF		3/8" I.D. (1/2" Outside Diameter Pipe), 3/8" Wall Flexible Elastomeric Unicellular Insulation 10.30		4.35
				<i>For Work In Restricted Working Space, Add</i> 2.61		
	22 07 19 00-0547	LF		1/2" I.D. (5/8" Outside Diameter Pipe), 3/8" Wall Flexible Elastomeric Unicellular Insulation 10.86		4.51
				<i>For Work In Restricted Working Space, Add</i> 2.71		
	22 07 19 00-0548	LF		3/4" I.D. (7/8" Outside Diameter Pipe), 3/8" Wall Flexible Elastomeric Unicellular Insulation 11.36		4.68
				<i>For Work In Restricted Working Space, Add</i> 2.80		
	22 07 19 00-0549	LF		1" I.D. (1-1/8" Outside Diameter Pipe), 3/8" Wall Flexible Elastomeric Unicellular Insulation 11.79		4.75
				<i>For Work In Restricted Working Space, Add</i> 2.84		
	22 07 19 00-0550	LF		1-1/4" I.D. (1-3/8" Outside Diameter Pipe), 3/8" Wall Flexible Elastomeric Unicellular Insulation 12.25		4.82
				<i>For Work In Restricted Working Space, Add</i> 2.89		
	22 07 19 00-0551	LF		1-1/2" I.D. (1-5/8" Outside Diameter Pipe), 3/8" Wall Flexible Elastomeric Unicellular Insulation 12.92		4.85
				<i>For Work In Restricted Working Space, Add</i> 2.90		
	22 07 19 00-0552	LF		2" I.D. (2-1/8" Outside Diameter Pipe), 3/8" Wall Flexible Elastomeric Unicellular Insulation 13.80		4.98
				<i>For Work In Restricted Working Space, Add</i> 2.98		
	22 07 19 00-0553	LF		2-1/2" I.D. (2-5/8" Outside Diameter Pipe), 3/8" Wall Flexible Elastomeric Unicellular Insulation 15.83		5.01
				<i>For Work In Restricted Working Space, Add</i> 3.00		
	22 07 19 00-0554	LF		3" I.D. (3-1/8" Outside Diameter Pipe), 3/8" Wall Flexible Elastomeric Unicellular Insulation 17.32		5.08
				<i>For Work In Restricted Working Space, Add</i> 3.05		
	22 07 19 00-0555			1/2" Wall Flexible Elastomeric Unicellular Insulation (22 07 19 00-0544)		
	22 07 19 00-0556	LF		3/8" I.D. (1/2" Outside Diameter Pipe), 1/2" Wall Flexible Elastomeric Unicellular Insulation 11.75		4.68
				<i>For Work In Restricted Working Space, Add</i> 2.81		
	22 07 19 00-0557	LF		1/2" I.D. (5/8" Outside Diameter Pipe), 1/2" Wall Flexible Elastomeric Unicellular Insulation 12.29		4.82
				<i>For Work In Restricted Working Space, Add</i> 2.89		
	22 07 19 00-0558	LF		3/4" I.D. (7/8" Outside Diameter Pipe), 1/2" Wall Flexible Elastomeric Unicellular Insulation 12.66		4.82
				<i>For Work In Restricted Working Space, Add</i> 2.91		
	22 07 19 00-0559	LF		1" I.D. (1-1/8" Outside Diameter Pipe), 1/2" Wall Flexible Elastomeric Unicellular Insulation 13.25		4.97
				<i>For Work In Restricted Working Space, Add</i> 2.98		
	22 07 19 00-0560	LF		1-1/4" I.D. (1-3/8" Outside Diameter Pipe), 1/2" Wall Flexible Elastomeric Unicellular Insulation 13.74		5.05
				<i>For Work In Restricted Working Space, Add</i> 3.03		
	22 07 19 00-0561	LF		1-1/2" I.D. (1-5/8" Outside Diameter Pipe), 1/2" Wall Flexible Elastomeric Unicellular Insulation 14.43		5.13
				<i>For Work In Restricted Working Space, Add</i> 3.08		
	22 07 19 00-0562	LF		2" I.D. (2-1/8" Outside Diameter Pipe), 1/2" Wall Flexible Elastomeric Unicellular Insulation 15.74		5.20
				<i>For Work In Restricted Working Space, Add</i> 3.12		
	22 07 19 00-0563	LF		2-1/2" I.D. (2-5/8" Outside Diameter Pipe), 1/2" Wall Flexible Elastomeric Unicellular Insulation 17.91		5.36
				<i>For Work In Restricted Working Space, Add</i> 3.21		
	22 07 19 00-0564	LF		3" I.D. (3-1/8" Outside Diameter Pipe), 1/2" Wall Flexible Elastomeric Unicellular Insulation 19.33		5.43
				<i>For Work In Restricted Working Space, Add</i> 3.26		
	22 07 19 00-0565	LF		3-1/2" I.D. (3-5/8" Outside Diameter Pipe), 1/2" Wall Flexible Elastomeric Unicellular Insulation 22.18		5.50
				<i>For Work In Restricted Working Space, Add</i> 3.30		
	22 07 19 00-0566	LF		4" I.D. (4-1/8" Outside Diameter Pipe), 1/2" Wall Flexible Elastomeric Unicellular Insulation 23.53		5.58
				<i>For Work In Restricted Working Space, Add</i> 3.35		
	22 07 19 00-0567			3/4" Wall Flexible Elastomeric Unicellular Insulation (22 07 19 00-0544)		
	22 07 19 00-0568	LF		3/8" I.D. (1/2" Outside Diameter Pipe), 3/4" Wall Flexible Elastomeric Unicellular Insulation 13.87		5.10
				<i>For Work In Restricted Working Space, Add</i> 3.05		
	22 07 19 00-0569	LF		1/2" I.D. (5/8" Outside Diameter Pipe), 3/4" Wall Flexible Elastomeric Unicellular Insulation 14.72		5.36
				<i>For Work In Restricted Working Space, Add</i> 3.21		
	22 07 19 00-0570	LF		3/4" I.D. (7/8" Outside Diameter Pipe), 3/4" Wall Flexible Elastomeric Unicellular Insulation 15.67		5.43
				<i>For Work In Restricted Working Space, Add</i> 3.26		
	22 07 19 00-0571	LF		1" I.D. (1-1/8" Outside Diameter Pipe), 3/4" Wall Flexible Elastomeric Unicellular Insulation 17.04		5.59
				<i>For Work In Restricted Working Space, Add</i> 3.35		
	22 07 19 00-0572	LF		1-1/4" I.D. (1-3/8" Outside Diameter Pipe), 3/4" Wall Flexible Elastomeric Unicellular Insulation 18.01		5.66
				<i>For Work In Restricted Working Space, Add</i> 3.39		
	22 07 19 00-0573	LF		1-1/2" I.D. (1-5/8" Outside Diameter Pipe), 3/4" Wall Flexible Elastomeric Unicellular Insulation 20.38		5.74
				<i>For Work In Restricted Working Space, Add</i> 3.44		
	22 07 19 00-0574	LF		2" I.D. (2-1/8" Outside Diameter Pipe), 3/4" Wall Flexible Elastomeric Unicellular Insulation 22.39		5.78
				<i>For Work In Restricted Working Space, Add</i> 3.47		
	22 07 19 00-0575	LF		2-1/2" I.D. (2-5/8" Outside Diameter Pipe), 3/4" Wall Flexible Elastomeric Unicellular Insulation 25.46		5.89
				<i>For Work In Restricted Working Space, Add</i> 3.53		
	22 07 19 00-0576	LF		3" I.D. (3-1/8" Outside Diameter Pipe), 3/4" Wall Flexible Elastomeric Unicellular Insulation 27.56		5.97
				<i>For Work In Restricted Working Space, Add</i> 3.58		
	22 07 19 00-0577	LF		3-1/2" I.D. (3-5/8" Outside Diameter Pipe), 3/4" Wall Flexible Elastomeric Unicellular Insulation 31.05		6.04
				<i>For Work In Restricted Working Space, Add</i> 3.63		
	22 07 19 00-0578	LF		4" I.D. (4-1/8" Outside Diameter Pipe), 3/4" Wall Flexible Elastomeric Unicellular Insulation 32.65		6.11
				<i>For Work In Restricted Working Space, Add</i> 3.67		
	22 07 19 00-0579			1" Wall Flexible Elastomeric Unicellular Insulation (22 07 19 00-0544)		
	22 07 19 00-0580	LF		3/8" I.D. (1/2" Outside Diameter Pipe), 1" Wall Flexible Elastomeric Unicellular Insulation 18.07		5.66
				<i>For Work In Restricted Working Space, Add</i> 3.39		
	22 07 19 00-0581	LF		1/2" I.D. (5/8" Outside Diameter Pipe), 1" Wall Flexible Elastomeric Unicellular Insulation 18.97		5.89
				<i>For Work In Restricted Working Space, Add</i> 3.53		
	22 07 19 00-0582	LF		3/4" I.D. (7/8" Outside Diameter Pipe), 1" Wall Flexible Elastomeric Unicellular Insulation 20.80		5.97
				<i>For Work In Restricted Working Space, Add</i> 3.58		
	22 07 19 00-0583	LF		1" I.D. (1-1/8" Outside Diameter Pipe), 1" Wall Flexible Elastomeric Unicellular Insulation 23.01		6.11
				<i>For Work In Restricted Working Space, Add</i> 3.67		
	22 07 19 00-0584	LF		1-1/4" I.D. (1-3/8" Outside Diameter Pipe), 1" Wall Flexible Elastomeric Unicellular Insulation 25.03		6.27
				<i>For Work In Restricted Working Space, Add</i> 3.76		

22 Plumbing
22 07 Plumbing Insulation
22 07 19 Plumbing Piping Insulation



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0585 LF 1-1/2" I.D. (1-5/8" Outside Diameter Pipe), 1" Wall Flexible Elastomeric Unicellular Insulation <i>For Work In Restricted Working Space, Add</i>	26.53 3.80	6.34
22 07 19 00-0586 LF 2" I.D. (2-1/8" Outside Diameter Pipe), 1" Wall Flexible Elastomeric Unicellular Insulation <i>For Work In Restricted Working Space, Add</i>	29.50 3.85	6.43
22 07 19 00-0587 LF 2-1/2" I.D. (2-5/8" Outside Diameter Pipe), 1" Wall Flexible Elastomeric Unicellular Insulation <i>For Work In Restricted Working Space, Add</i>	36.67 3.95	6.59
22 07 19 00-0588 LF 3" I.D. (3-1/8" Outside Diameter Pipe), 1" Wall Flexible Elastomeric Unicellular Insulation <i>For Work In Restricted Working Space, Add</i>	41.81 3.99	6.66
22 07 19 00-0589 LF 3-1/2" I.D. (3-5/8" Outside Diameter Pipe), 1" Wall Flexible Elastomeric Unicellular Insulation <i>For Work In Restricted Working Space, Add</i>	44.60 4.04	6.73
22 07 19 00-0590 LF 4" I.D. (4-1/8" Outside Diameter Pipe), 1" Wall Flexible Elastomeric Unicellular Insulation <i>For Work In Restricted Working Space, Add</i>	50.34 4.13	6.89
22 07 19 00-0591 Insulation Foam Rubber <small>(22 07 19)</small>		
22 07 19 00-0592 Covering 4x6 Sheet <small>(22 07 19 00-0591)</small>		
22 07 19 00-0593 SF 1" Thick Foam Rubber Sheet Insulation	27.65	10.34
22 07 19 00-0594 Insulation Protective Jacketing <small>(22 07 19)</small> Note: Jacketing only and to be added to insulation prices when required.		
22 07 19 00-0595 Aluminum Insulation Protective Jacketing With Bands <small>(22 07 19 00-0594)</small>		
22 07 19 00-0596 Aluminum Roll, Insulation Protective Jacketing With Bands <small>(22 07 19 00-0595)</small>		
22 07 19 00-0597 SF 0.006" Aluminum Insulation Jacket With Bands.....	21.81	9.32
22 07 19 00-0598 SF 0.010" Aluminum Insulation Jacket With Bands.....	22.15	9.32
22 07 19 00-0599 SF 0.016" Aluminum Insulation Jacket With Bands.....	22.48	9.32
22 07 19 00-0600 SF 0.020" Aluminum Insulation Jacket With Bands.....	22.77	9.32
22 07 19 00-0601 SF 0.024" Aluminum Insulation Jacket With Bands.....	23.05	9.32
22 07 19 00-0602 16 Mil, Aluminum Insulation Protective Jacketing With Polykraft Moisture Barrier And Bands <small>(22 07 19 00-0595)</small>		
22 07 19 00-0603 LF 1/2" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	11.00 0.00 0.01	2.64
22 07 19 00-0604 LF 3/4" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	11.37 0.01 0.01	2.70
22 07 19 00-0605 LF 1" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	11.74 0.01 0.02	2.78
22 07 19 00-0606 LF 1-1/4" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	12.14 0.01 0.02	2.85
22 07 19 00-0607 LF 1-1/2" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	12.43 0.01 0.02	2.89
22 07 19 00-0608 LF 1-3/4" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	12.72 0.01 0.03	2.93
22 07 19 00-0609 LF 2" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	13.09 0.01 0.03	2.99
22 07 19 00-0610 LF 2-1/4" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	13.46 0.01 0.03	3.05
22 07 19 00-0611 LF 2-1/2" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	13.86 0.01 0.04	3.12
22 07 19 00-0612 LF 2-3/4" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	14.18 0.02 0.04	3.17
22 07 19 00-0613 LF 3" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	14.60 0.02 0.04	3.24
22 07 19 00-0614 LF 3-1/4" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	15.01 0.02 0.04	3.31
22 07 19 00-0615 LF 3-1/2" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	15.44 0.02 0.05	3.39
22 07 19 00-0616 LF 3-3/4" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	15.81 0.02 0.05	3.45
22 07 19 00-0617 LF 4" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	16.26 0.02 0.05	3.53
22 07 19 00-0618 LF 4-1/4" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	16.73 0.02 0.06	3.62



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0619 LF 4-1/2" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	17.24 0.02 0.06	3.71
22 07 19 00-0620 LF 4-3/4" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	17.65 0.03 0.06	3.78
22 07 19 00-0621 LF 5" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	18.17 0.03 0.07	3.88
22 07 19 00-0622 LF 5-1/4" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	18.73 0.03 0.07	3.99
22 07 19 00-0623 LF 5-1/2" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	19.18 0.03 0.07	4.07
22 07 19 00-0624 LF 5-3/4" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	19.78 0.03 0.08	4.19
22 07 19 00-0625 LF 6" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	20.40 0.03 0.08	4.31
22 07 19 00-0626 LF 6-1/4" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	20.79 0.03 0.08	4.38
22 07 19 00-0627 LF 6-1/2" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	21.18 0.03 0.08	4.44
22 07 19 00-0628 LF 7" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	21.82 0.04 0.09	4.55
22 07 19 00-0629 LF 7-1/4" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	22.38 0.04 0.09	4.66
22 07 19 00-0630 LF 7-1/2" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	22.80 0.04 0.10	4.74
22 07 19 00-0631 LF 8" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	23.36 0.04 0.10	4.82
22 07 19 00-0632 LF 8-1/2" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	23.93 0.04 0.11	4.90
22 07 19 00-0633 LF 9" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	24.67 0.05 0.11	5.02
22 07 19 00-0634 LF 9-1/2" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	25.28 0.05 0.12	5.11
22 07 19 00-0635 LF 10" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	25.89 0.05 0.13	5.20
22 07 19 00-0636 LF 10-1/2" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	26.51 0.05 0.13	5.30
22 07 19 00-0637 LF 11" ID, 0.0106 Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	27.35 0.06 0.14	5.44
22 07 19 00-0638 LF 11-1/2" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	28.03 0.06 0.15	5.55
22 07 19 00-0639 LF 12" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	28.70 0.06 0.15	5.65
22 07 19 00-0640 LF 12-1/2" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	29.62 0.06 0.16	5.82
22 07 19 00-0641 LF 13" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	30.10 0.07 0.16	5.88
22 07 19 00-0642 LF 14" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	30.84 0.07 0.18	5.94
22 07 19 00-0643 LF 15" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	31.82 0.08 0.19	6.06
22 07 19 00-0644 LF 16" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	32.57 0.08 0.20	6.13
22 07 19 00-0645 LF 17" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	33.59 0.09 0.21	6.26
22 07 19 00-0646 LF 18" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	34.20 0.09 0.22	6.33

22 Plumbing**22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0647 LF 19" ID, 0.016" Aluminum Insulation Jacketing	35.41	6.48
For Stucco Embossed, Add	0.10	
For Corrugated, Add	0.24	
22 07 19 00-0648 LF 20" ID, 0.016" Aluminum Insulation Jacketing	36.20	6.55
For Stucco Embossed, Add	0.10	
For Corrugated, Add	0.25	
22 07 19 00-0649 LF 21" ID, 0.016" Aluminum Insulation Jacketing	37.30	6.70
For Stucco Embossed, Add	0.11	
For Corrugated, Add	0.26	
22 07 19 00-0650 LF 22" ID, 0.016" Aluminum Insulation Jacketing	38.09	6.78
For Stucco Embossed, Add	0.11	
For Corrugated, Add	0.28	
22 07 19 00-0651 LF 23" ID, 0.016" Aluminum Insulation Jacketing	39.23	6.94
For Stucco Embossed, Add	0.12	
For Corrugated, Add	0.29	
22 07 19 00-0652 LF 24" ID, 0.016" Aluminum Insulation Jacketing	40.06	7.02
For Stucco Embossed, Add	0.12	
For Corrugated, Add	0.30	
22 07 19 00-0653 20 Mil, Aluminum Insulation Protective Jacketing With Polykraft Moisture Barrier And Bands <small>(22 07 19 00-0595)</small>		
22 07 19 00-0654 LF 1/2" ID, 0.020" Aluminum Insulation Jacketing	12.17	2.92
For Stucco Embossed, Add	0.01	
For Corrugated, Add	0.01	
22 07 19 00-0655 LF 3/4" ID, 0.020" Aluminum Insulation Jacketing	12.59	2.98
For Stucco Embossed, Add	0.01	
For Corrugated, Add	0.02	
22 07 19 00-0656 LF 1" ID, 0.020" Aluminum Insulation Jacketing	13.04	3.05
For Stucco Embossed, Add	0.01	
For Corrugated, Add	0.02	
22 07 19 00-0657 LF 1-1/4" ID, 0.020" Aluminum Insulation Jacketing	13.48	3.13
For Stucco Embossed, Add	0.01	
For Corrugated, Add	0.02	
22 07 19 00-0658 LF 1-1/2" ID, 0.020" Aluminum Insulation Jacketing	13.83	3.17
For Stucco Embossed, Add	0.01	
For Corrugated, Add	0.03	
22 07 19 00-0659 LF 1-3/4" ID, 0.020" Aluminum Insulation Jacketing	14.17	3.22
For Stucco Embossed, Add	0.01	
For Corrugated, Add	0.03	
22 07 19 00-0660 LF 2" ID, 0.020" Aluminum Insulation Jacketing	14.59	3.29
For Stucco Embossed, Add	0.01	
For Corrugated, Add	0.04	
22 07 19 00-0661 LF 2-1/4" ID, 0.020" Aluminum Insulation Jacketing	15.01	3.36
For Stucco Embossed, Add	0.02	
For Corrugated, Add	0.04	
22 07 19 00-0662 LF 2-1/2" ID, 0.020" Aluminum Insulation Jacketing	15.48	3.43
For Stucco Embossed, Add	0.02	
For Corrugated, Add	0.04	
22 07 19 00-0663 LF 2-3/4" ID, 0.020" Aluminum Insulation Jacketing	15.86	3.48
For Stucco Embossed, Add	0.02	
For Corrugated, Add	0.05	
22 07 19 00-0664 LF 3" ID, 0.020" Aluminum Insulation Jacketing	16.34	3.56
For Stucco Embossed, Add	0.02	
For Corrugated, Add	0.05	
22 07 19 00-0665 LF 3-1/4" ID, 0.020" Aluminum Insulation Jacketing	16.82	3.64
For Stucco Embossed, Add	0.02	
For Corrugated, Add	0.06	
22 07 19 00-0666 LF 3-1/2" ID, 0.020" Aluminum Insulation Jacketing	17.31	3.72
For Stucco Embossed, Add	0.02	
For Corrugated, Add	0.06	
22 07 19 00-0667 LF 3-3/4" ID, 0.020" Aluminum Insulation Jacketing	17.73	3.79
For Stucco Embossed, Add	0.03	
For Corrugated, Add	0.06	
22 07 19 00-0668 LF 4" ID, 0.020" Aluminum Insulation Jacketing	18.25	3.88
For Stucco Embossed, Add	0.03	
For Corrugated, Add	0.07	
22 07 19 00-0669 LF 4-1/4" ID, 0.020" Aluminum Insulation Jacketing	18.80	3.98
For Stucco Embossed, Add	0.03	
For Corrugated, Add	0.07	
22 07 19 00-0670 LF 4-1/2" ID, 0.020" Aluminum Insulation Jacketing	19.37	4.08
For Stucco Embossed, Add	0.03	
For Corrugated, Add	0.08	
22 07 19 00-0671 LF 4-3/4" ID, 0.020" Aluminum Insulation Jacketing	19.84	4.16
For Stucco Embossed, Add	0.03	
For Corrugated, Add	0.08	
22 07 19 00-0672 LF 5" ID, 0.020" Aluminum Insulation Jacketing	20.44	4.27
For Stucco Embossed, Add	0.03	
For Corrugated, Add	0.08	
22 07 19 00-0673 LF 5-1/4" ID, 0.020" Aluminum Insulation Jacketing	21.07	4.38
For Stucco Embossed, Add	0.04	
For Corrugated, Add	0.09	
22 07 19 00-0674 LF 5-1/2" ID, 0.020" Aluminum Insulation Jacketing	21.59	4.48
For Stucco Embossed, Add	0.04	
For Corrugated, Add	0.09	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0675 LF 5-3/4" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	22.28 0.04 0.10	4.61
22 07 19 00-0676 LF 6" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	22.98 0.04 0.10	4.75
22 07 19 00-0677 LF 6-1/4" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	23.41 0.04 0.10	4.82
22 07 19 00-0678 LF 6-1/2" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	23.87 0.04 0.11	4.89
22 07 19 00-0679 LF 7" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	24.61 0.05 0.11	5.01
22 07 19 00-0680 LF 7-1/4" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	25.25 0.05 0.12	5.13
22 07 19 00-0681 LF 7-1/2" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	25.73 0.05 0.12	5.21
22 07 19 00-0682 LF 8" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	26.41 0.05 0.13	5.30
22 07 19 00-0683 LF 8-1/2" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	27.06 0.06 0.14	5.38
22 07 19 00-0684 LF 9" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	27.92 0.06 0.15	5.52
22 07 19 00-0685 LF 9-1/2" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	28.64 0.06 0.15	5.62
22 07 19 00-0686 LF 10" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	29.35 0.06 0.16	5.72
22 07 19 00-0687 LF 10-1/2" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	30.07 0.07 0.17	5.82
22 07 19 00-0688 LF 11" ID, 0.0106 Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	31.03 0.07 0.18	5.98
22 07 19 00-0689 LF 11-1/2" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	31.81 0.07 0.19	6.10
22 07 19 00-0690 LF 12" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	32.60 0.08 0.19	6.22
22 07 19 00-0691 LF 12-1/2" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	33.66 0.08 0.20	6.40
22 07 19 00-0692 LF 13" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	34.23 0.08 0.21	6.48
22 07 19 00-0693 LF 14" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	35.13 0.09 0.22	6.54
22 07 19 00-0694 LF 15" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	36.29 0.10 0.24	6.68
22 07 19 00-0695 LF 16" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	37.21 0.10 0.26	6.75
22 07 19 00-0696 LF 17" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	38.40 0.11 0.27	6.89
22 07 19 00-0697 LF 18" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	39.12 0.11 0.28	6.97
22 07 19 00-0698 LF 19" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	40.58 0.12 0.30	7.12
22 07 19 00-0699 LF 20" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	41.54 0.13 0.32	7.20
22 07 19 00-0700 LF 21" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	42.82 0.13 0.33	7.36
22 07 19 00-0701 LF 22" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	43.77 0.14 0.35	7.45
22 07 19 00-0702 LF 23" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	45.12 0.15 0.37	7.63

22	Plumbing
22 07	Plumbing Insulation
22 07 19	Plumbing Piping Insulation



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0703 LF 24" ID, 0.020" Aluminum Insulation Jacketing	46.11	7.72
For Stucco Embossed, Add	0.15	
For Corrugated, Add	0.38	
22 07 19 00-0704 24 Mil, Aluminum Insulation Protective Jacketing With Polykraft Moisture Barrier And Bands <small>(22 07 19 00-0595)</small>		
22 07 19 00-0705 LF 1/2" ID, 0.024" Aluminum Insulation Jacketing	13.33	3.18
For Stucco Embossed, Add	0.01	
For Corrugated, Add	0.02	
22 07 19 00-0706 LF 3/4" ID, 0.024" Aluminum Insulation Jacketing	13.81	3.25
For Stucco Embossed, Add	0.01	
For Corrugated, Add	0.02	
22 07 19 00-0707 LF 1" ID, 0.024" Aluminum Insulation Jacketing	14.30	3.33
For Stucco Embossed, Add	0.01	
For Corrugated, Add	0.02	
22 07 19 00-0708 LF 1-1/4" ID, 0.024" Aluminum Insulation Jacketing	14.81	3.41
For Stucco Embossed, Add	0.01	
For Corrugated, Add	0.03	
22 07 19 00-0709 LF 1-1/2" ID, 0.024" Aluminum Insulation Jacketing	15.20	3.46
For Stucco Embossed, Add	0.01	
For Corrugated, Add	0.03	
22 07 19 00-0710 LF 1-3/4" ID, 0.024" Aluminum Insulation Jacketing	15.60	3.51
For Stucco Embossed, Add	0.02	
For Corrugated, Add	0.04	
22 07 19 00-0711 LF 2" ID, 0.024" Aluminum Insulation Jacketing	16.07	3.58
For Stucco Embossed, Add	0.02	
For Corrugated, Add	0.04	
22 07 19 00-0712 LF 2-1/4" ID, 0.024" Aluminum Insulation Jacketing	16.56	3.66
For Stucco Embossed, Add	0.02	
For Corrugated, Add	0.05	
22 07 19 00-0713 LF 2-1/2" ID, 0.024" Aluminum Insulation Jacketing	17.08	3.74
For Stucco Embossed, Add	0.02	
For Corrugated, Add	0.05	
22 07 19 00-0714 LF 2-3/4" ID, 0.024" Aluminum Insulation Jacketing	17.50	3.80
For Stucco Embossed, Add	0.02	
For Corrugated, Add	0.06	
22 07 19 00-0715 LF 3" ID, 0.024" Aluminum Insulation Jacketing	18.05	3.88
For Stucco Embossed, Add	0.03	
For Corrugated, Add	0.06	
22 07 19 00-0716 LF 3-1/4" ID, 0.024" Aluminum Insulation Jacketing	18.59	3.97
For Stucco Embossed, Add	0.03	
For Corrugated, Add	0.07	
22 07 19 00-0717 LF 3-1/2" ID, 0.024" Aluminum Insulation Jacketing	19.14	4.06
For Stucco Embossed, Add	0.03	
For Corrugated, Add	0.07	
22 07 19 00-0718 LF 3-3/4" ID, 0.024" Aluminum Insulation Jacketing	19.61	4.13
For Stucco Embossed, Add	0.03	
For Corrugated, Add	0.08	
22 07 19 00-0719 LF 4" ID, 0.024" Aluminum Insulation Jacketing	20.20	4.23
For Stucco Embossed, Add	0.03	
For Corrugated, Add	0.08	
22 07 19 00-0720 LF 4-1/4" ID, 0.024" Aluminum Insulation Jacketing	20.80	4.34
For Stucco Embossed, Add	0.03	
For Corrugated, Add	0.09	
22 07 19 00-0721 LF 4-1/2" ID, 0.024" Aluminum Insulation Jacketing	21.46	4.45
For Stucco Embossed, Add	0.04	
For Corrugated, Add	0.09	
22 07 19 00-0722 LF 4-3/4" ID, 0.024" Aluminum Insulation Jacketing	21.99	4.53
For Stucco Embossed, Add	0.04	
For Corrugated, Add	0.10	
22 07 19 00-0723 LF 5" ID, 0.024" Aluminum Insulation Jacketing	22.66	4.66
For Stucco Embossed, Add	0.04	
For Corrugated, Add	0.10	
22 07 19 00-0724 LF 5-1/4" ID, 0.024" Aluminum Insulation Jacketing	23.34	4.79
For Stucco Embossed, Add	0.04	
For Corrugated, Add	0.11	
22 07 19 00-0725 LF 5-1/2" ID, 0.024" Aluminum Insulation Jacketing	23.94	4.89
For Stucco Embossed, Add	0.04	
For Corrugated, Add	0.11	
22 07 19 00-0726 LF 5-3/4" ID, 0.024" Aluminum Insulation Jacketing	24.71	5.03
For Stucco Embossed, Add	0.05	
For Corrugated, Add	0.12	
22 07 19 00-0727 LF 6" ID, 0.024" Aluminum Insulation Jacketing	25.49	5.18
For Stucco Embossed, Add	0.05	
For Corrugated, Add	0.12	
22 07 19 00-0728 LF 6-1/4" ID, 0.024" Aluminum Insulation Jacketing	25.99	5.26
For Stucco Embossed, Add	0.05	
For Corrugated, Add	0.12	
22 07 19 00-0729 LF 6-1/2" ID, 0.024" Aluminum Insulation Jacketing	26.49	5.34
For Stucco Embossed, Add	0.05	
For Corrugated, Add	0.13	
22 07 19 00-0730 LF 7" ID, 0.024" Aluminum Insulation Jacketing	27.34	5.46
For Stucco Embossed, Add	0.06	
For Corrugated, Add	0.14	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0731 LF 7-1/4" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	28.04 0.06 0.14	5.59
22 07 19 00-0732 LF 7-1/2" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	28.59 0.06 0.15	5.68
22 07 19 00-0733 LF 8" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	29.37 0.06 0.16	5.78
22 07 19 00-0734 LF 8-1/2" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	30.10 0.07 0.17	5.87
22 07 19 00-0735 LF 9" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	31.08 0.07 0.17	6.02
22 07 19 00-0736 LF 9-1/2" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	31.89 0.07 0.18	6.13
22 07 19 00-0737 LF 10" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	32.71 0.08 0.19	6.24
22 07 19 00-0738 LF 10-1/2" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	33.53 0.08 0.20	6.35
22 07 19 00-0739 LF 11" ID, 0.0106 Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	34.60 0.08 0.21	6.54
22 07 19 00-0740 LF 11-1/2" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	35.50 0.09 0.22	6.66
22 07 19 00-0741 LF 12" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	36.38 0.09 0.23	6.79
22 07 19 00-0742 LF 12-1/2" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	37.56 0.10 0.24	6.99
22 07 19 00-0743 LF 13" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	38.22 0.10 0.25	7.06
22 07 19 00-0744 LF 14" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	39.27 0.11 0.27	7.13
22 07 19 00-0745 LF 15" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	40.60 0.11 0.29	7.28
22 07 19 00-0746 LF 16" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	41.67 0.12 0.31	7.36
22 07 19 00-0747 LF 17" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	43.04 0.13 0.32	7.51
22 07 19 00-0748 LF 18" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	43.88 0.13 0.34	7.60
22 07 19 00-0749 LF 19" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	45.54 0.14 0.36	7.76
22 07 19 00-0750 LF 20" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	46.66 0.15 0.38	7.85
22 07 19 00-0751 LF 21" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	48.13 0.16 0.40	8.03
22 07 19 00-0752 LF 22" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	49.24 0.17 0.42	8.12
22 07 19 00-0753 LF 23" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	50.77 0.17 0.44	8.33
22 07 19 00-0754 LF 24" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	51.91 0.18 0.46	8.42
 22 07 19 00-0755 32 Mil, Aluminum Insulation Protective Jacketing With Polykraft Moisture Barrier And Bands (22 07 19 00-0595)		
22 07 19 00-0756 LF 1/2" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	14.93 0.01 0.02	3.52
22 07 19 00-0757 LF 3/4" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	15.50 0.01 0.03	3.60
22 07 19 00-0758 LF 1" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	16.08 0.01 0.03	3.69

22 Plumbing**22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0759 LF 1-1/4" ID, 0.032" Aluminum Insulation Jacketing	16.69	3.78
For Stucco Embossed, Add	0.02	
For Corrugated, Add	0.04	
22 07 19 00-0760 LF 1-1/2" ID, 0.032" Aluminum Insulation Jacketing	17.17	3.83
For Stucco Embossed, Add	0.02	
For Corrugated, Add	0.05	
22 07 19 00-0761 LF 1-3/4" ID, 0.032" Aluminum Insulation Jacketing	17.65	3.89
For Stucco Embossed, Add	0.02	
For Corrugated, Add	0.05	
22 07 19 00-0762 LF 2" ID, 0.032" Aluminum Insulation Jacketing	18.22	3.97
For Stucco Embossed, Add	0.02	
For Corrugated, Add	0.06	
22 07 19 00-0763 LF 2-1/4" ID, 0.032" Aluminum Insulation Jacketing	18.79	4.05
For Stucco Embossed, Add	0.03	
For Corrugated, Add	0.06	
22 07 19 00-0764 LF 2-1/2" ID, 0.032" Aluminum Insulation Jacketing	19.42	4.14
For Stucco Embossed, Add	0.03	
For Corrugated, Add	0.07	
22 07 19 00-0765 LF 2-3/4" ID, 0.032" Aluminum Insulation Jacketing	19.94	4.21
For Stucco Embossed, Add	0.03	
For Corrugated, Add	0.08	
22 07 19 00-0766 LF 3" ID, 0.032" Aluminum Insulation Jacketing	20.59	4.30
For Stucco Embossed, Add	0.03	
For Corrugated, Add	0.08	
22 07 19 00-0767 LF 3-1/4" ID, 0.032" Aluminum Insulation Jacketing	21.24	4.40
For Stucco Embossed, Add	0.04	
For Corrugated, Add	0.09	
22 07 19 00-0768 LF 3-1/2" ID, 0.032" Aluminum Insulation Jacketing	21.90	4.50
For Stucco Embossed, Add	0.04	
For Corrugated, Add	0.10	
22 07 19 00-0769 LF 3-3/4" ID, 0.032" Aluminum Insulation Jacketing	22.45	4.58
For Stucco Embossed, Add	0.04	
For Corrugated, Add	0.10	
22 07 19 00-0770 LF 4" ID, 0.032" Aluminum Insulation Jacketing	23.15	4.70
For Stucco Embossed, Add	0.04	
For Corrugated, Add	0.11	
22 07 19 00-0771 LF 4-1/4" ID, 0.032" Aluminum Insulation Jacketing	23.86	4.82
For Stucco Embossed, Add	0.05	
For Corrugated, Add	0.12	
22 07 19 00-0772 LF 4-1/2" ID, 0.032" Aluminum Insulation Jacketing	24.64	4.94
For Stucco Embossed, Add	0.05	
For Corrugated, Add	0.12	
22 07 19 00-0773 LF 4-3/4" ID, 0.032" Aluminum Insulation Jacketing	25.27	5.03
For Stucco Embossed, Add	0.05	
For Corrugated, Add	0.13	
22 07 19 00-0774 LF 5" ID, 0.032" Aluminum Insulation Jacketing	26.04	5.17
For Stucco Embossed, Add	0.05	
For Corrugated, Add	0.13	
22 07 19 00-0775 LF 5-1/4" ID, 0.032" Aluminum Insulation Jacketing	26.87	5.31
For Stucco Embossed, Add	0.06	
For Corrugated, Add	0.14	
22 07 19 00-0776 LF 5-1/2" ID, 0.032" Aluminum Insulation Jacketing	27.56	5.42
For Stucco Embossed, Add	0.06	
For Corrugated, Add	0.15	
22 07 19 00-0777 LF 5-3/4" ID, 0.032" Aluminum Insulation Jacketing	28.46	5.57
For Stucco Embossed, Add	0.06	
For Corrugated, Add	0.15	
22 07 19 00-0778 LF 6" ID, 0.032" Aluminum Insulation Jacketing	29.38	5.74
For Stucco Embossed, Add	0.06	
For Corrugated, Add	0.16	
22 07 19 00-0779 LF 6-1/4" ID, 0.032" Aluminum Insulation Jacketing	29.97	5.82
For Stucco Embossed, Add	0.07	
For Corrugated, Add	0.17	
22 07 19 00-0780 LF 6-1/2" ID, 0.032" Aluminum Insulation Jacketing	30.56	5.91
For Stucco Embossed, Add	0.07	
For Corrugated, Add	0.17	
22 07 19 00-0781 LF 7" ID, 0.032" Aluminum Insulation Jacketing	31.59	6.05
For Stucco Embossed, Add	0.07	
For Corrugated, Add	0.18	
22 07 19 00-0782 LF 7-1/4" ID, 0.032" Aluminum Insulation Jacketing	32.42	6.19
For Stucco Embossed, Add	0.08	
For Corrugated, Add	0.19	
22 07 19 00-0783 LF 7-1/2" ID, 0.032" Aluminum Insulation Jacketing	33.07	6.29
For Stucco Embossed, Add	0.08	
For Corrugated, Add	0.20	
22 07 19 00-0784 LF 8" ID, 0.032" Aluminum Insulation Jacketing	34.00	6.40
For Stucco Embossed, Add	0.08	
For Corrugated, Add	0.21	
22 07 19 00-0785 LF 8-1/2" ID, 0.032" Aluminum Insulation Jacketing	34.91	6.51
For Stucco Embossed, Add	0.09	
For Corrugated, Add	0.22	
22 07 19 00-0786 LF 9" ID, 0.032" Aluminum Insulation Jacketing	36.08	6.68
For Stucco Embossed, Add	0.09	
For Corrugated, Add	0.23	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0787 LF 9-1/2" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	37.07 0.10 0.25	6.80
22 07 19 00-0788 LF 10" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	38.06 0.10 0.26	6.92
22 07 19 00-0789 LF 10-1/2" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	39.04 0.11 0.27	7.04
22 07 19 00-0790 LF 11" ID, 0.0106 Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	40.34 0.11 0.28	7.24
22 07 19 00-0791 LF 11-1/2" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	41.42 0.12 0.30	7.38
22 07 19 00-0792 LF 12" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	42.48 0.12 0.31	7.52
22 07 19 00-0793 LF 12-1/2" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	43.89 0.13 0.32	7.74
22 07 19 00-0794 LF 13" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	44.69 0.13 0.33	7.82
22 07 19 00-0795 LF 14" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	46.04 0.14 0.36	7.90
22 07 19 00-0796 LF 15" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	47.69 0.15 0.39	8.07
22 07 19 00-0797 LF 16" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	49.05 0.16 0.41	8.15
22 07 19 00-0798 LF 17" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	50.74 0.17 0.44	8.33
22 07 19 00-0799 LF 18" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	51.79 0.18 0.45	8.42
22 07 19 00-0800 LF 19" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	53.87 0.19 0.49	8.61
22 07 19 00-0801 LF 20" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	55.28 0.20 0.51	8.71
22 07 19 00-0802 LF 21" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	57.06 0.21 0.54	8.91
22 07 19 00-0803 LF 22" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	58.48 0.22 0.56	9.01
22 07 19 00-0804 LF 23" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	60.36 0.23 0.59	9.22
22 07 19 00-0805 LF 24" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	61.79 0.24 0.61	9.33
22 07 19 00-0806 40 Mil, Aluminum Insulation Protective Jacketing With Polykraft Moisture Barrier And Bands (22 07 19 00-0595)		
22 07 19 00-0807 LF 1/2" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	17.25 0.01 0.03	4.05
22 07 19 00-0808 LF 3/4" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	17.94 0.01 0.03	4.14
22 07 19 00-0809 LF 1" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	18.64 0.02 0.04	4.24
22 07 19 00-0810 LF 1-1/4" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	19.36 0.02 0.05	4.34
22 07 19 00-0811 LF 1-1/2" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	19.95 0.02 0.06	4.41
22 07 19 00-0812 LF 1-3/4" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	20.52 0.03 0.07	4.47
22 07 19 00-0813 LF 2" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	21.20 0.03 0.07	4.56
22 07 19 00-0814 LF 2-1/4" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	21.89 0.03 0.08	4.67

22 Plumbing
22 07 Plumbing Insulation
22 07 19 Plumbing Piping Insulation



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0815	LF	2-1/2" ID, 0.040" Aluminum Insulation Jacketing	22.64	4.77
		<i>For Stucco Embossed, Add</i>	0.04	
		<i>For Corrugated, Add</i>	0.09	
22 07 19 00-0816	LF	2-3/4" ID, 0.040" Aluminum Insulation Jacketing	23.27	4.85
		<i>For Stucco Embossed, Add</i>	0.04	
		<i>For Corrugated, Add</i>	0.10	
22 07 19 00-0817	LF	3" ID, 0.040" Aluminum Insulation Jacketing	24.04	4.95
		<i>For Stucco Embossed, Add</i>	0.04	
		<i>For Corrugated, Add</i>	0.11	
22 07 19 00-0818	LF	3-1/4" ID, 0.040" Aluminum Insulation Jacketing	24.80	5.07
		<i>For Stucco Embossed, Add</i>	0.05	
		<i>For Corrugated, Add</i>	0.11	
22 07 19 00-0819	LF	3-1/2" ID, 0.040" Aluminum Insulation Jacketing	25.58	5.18
		<i>For Stucco Embossed, Add</i>	0.05	
		<i>For Corrugated, Add</i>	0.12	
22 07 19 00-0820	LF	3-3/4" ID, 0.040" Aluminum Insulation Jacketing	26.26	5.27
		<i>For Stucco Embossed, Add</i>	0.05	
		<i>For Corrugated, Add</i>	0.13	
22 07 19 00-0821	LF	4" ID, 0.040" Aluminum Insulation Jacketing	27.09	5.40
		<i>For Stucco Embossed, Add</i>	0.05	
		<i>For Corrugated, Add</i>	0.14	
22 07 19 00-0822	LF	4-1/4" ID, 0.040" Aluminum Insulation Jacketing	27.94	5.53
		<i>For Stucco Embossed, Add</i>	0.06	
		<i>For Corrugated, Add</i>	0.15	
22 07 19 00-0823	LF	4-1/2" ID, 0.040" Aluminum Insulation Jacketing	28.85	5.67
		<i>For Stucco Embossed, Add</i>	0.06	
		<i>For Corrugated, Add</i>	0.15	
22 07 19 00-0824	LF	4-3/4" ID, 0.040" Aluminum Insulation Jacketing	29.61	5.79
		<i>For Stucco Embossed, Add</i>	0.06	
		<i>For Corrugated, Add</i>	0.16	
22 07 19 00-0825	LF	5" ID, 0.040" Aluminum Insulation Jacketing	30.53	5.94
		<i>For Stucco Embossed, Add</i>	0.07	
		<i>For Corrugated, Add</i>	0.17	
22 07 19 00-0826	LF	5-1/4" ID, 0.040" Aluminum Insulation Jacketing	31.49	6.10
		<i>For Stucco Embossed, Add</i>	0.07	
		<i>For Corrugated, Add</i>	0.18	
22 07 19 00-0827	LF	5-1/2" ID, 0.040" Aluminum Insulation Jacketing	32.32	6.23
		<i>For Stucco Embossed, Add</i>	0.07	
		<i>For Corrugated, Add</i>	0.18	
22 07 19 00-0828	LF	5-3/4" ID, 0.040" Aluminum Insulation Jacketing	33.38	6.41
		<i>For Stucco Embossed, Add</i>	0.08	
		<i>For Corrugated, Add</i>	0.19	
22 07 19 00-0829	LF	6" ID, 0.040" Aluminum Insulation Jacketing	34.45	6.60
		<i>For Stucco Embossed, Add</i>	0.08	
		<i>For Corrugated, Add</i>	0.20	
22 07 19 00-0830	LF	6-1/4" ID, 0.040" Aluminum Insulation Jacketing	35.16	6.70
		<i>For Stucco Embossed, Add</i>	0.08	
		<i>For Corrugated, Add</i>	0.21	
22 07 19 00-0831	LF	6-1/2" ID, 0.040" Aluminum Insulation Jacketing	35.89	6.81
		<i>For Stucco Embossed, Add</i>	0.09	
		<i>For Corrugated, Add</i>	0.22	
22 07 19 00-0832	LF	7" ID, 0.040" Aluminum Insulation Jacketing	37.11	6.96
		<i>For Stucco Embossed, Add</i>	0.09	
		<i>For Corrugated, Add</i>	0.23	
22 07 19 00-0833	LF	7-1/4" ID, 0.040" Aluminum Insulation Jacketing	38.09	7.13
		<i>For Stucco Embossed, Add</i>	0.10	
		<i>For Corrugated, Add</i>	0.24	
22 07 19 00-0834	LF	7-1/2" ID, 0.040" Aluminum Insulation Jacketing	38.86	7.25
		<i>For Stucco Embossed, Add</i>	0.10	
		<i>For Corrugated, Add</i>	0.25	
22 07 19 00-0835	LF	8" ID, 0.040" Aluminum Insulation Jacketing	39.98	7.37
		<i>For Stucco Embossed, Add</i>	0.11	
		<i>For Corrugated, Add</i>	0.26	
22 07 19 00-0836	LF	8-1/2" ID, 0.040" Aluminum Insulation Jacketing	41.08	7.49
		<i>For Stucco Embossed, Add</i>	0.11	
		<i>For Corrugated, Add</i>	0.28	
22 07 19 00-0837	LF	9" ID, 0.040" Aluminum Insulation Jacketing	42.48	7.68
		<i>For Stucco Embossed, Add</i>	0.12	
		<i>For Corrugated, Add</i>	0.29	
22 07 19 00-0838	LF	9-1/2" ID, 0.040" Aluminum Insulation Jacketing	43.68	7.81
		<i>For Stucco Embossed, Add</i>	0.12	
		<i>For Corrugated, Add</i>	0.31	
22 07 19 00-0839	LF	10" ID, 0.040" Aluminum Insulation Jacketing	44.85	7.95
		<i>For Stucco Embossed, Add</i>	0.13	
		<i>For Corrugated, Add</i>	0.33	
22 07 19 00-0840	LF	10-1/2" ID, 0.040" Aluminum Insulation Jacketing	46.07	8.10
		<i>For Stucco Embossed, Add</i>	0.14	
		<i>For Corrugated, Add</i>	0.34	
22 07 19 00-0841	LF	11" ID, 0.0106 Aluminum Insulation Jacketing	47.59	8.33
		<i>For Stucco Embossed, Add</i>	0.14	
		<i>For Corrugated, Add</i>	0.36	
22 07 19 00-0842	LF	11-1/2" ID, 0.040" Aluminum Insulation Jacketing	48.88	8.49
		<i>For Stucco Embossed, Add</i>	0.15	
		<i>For Corrugated, Add</i>	0.37	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0843 LF 12" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	50.17 0.16 0.39	8.65
22 07 19 00-0844 LF 12-1/2" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	51.83 0.16 0.40	8.91
22 07 19 00-0845 LF 13" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	52.82 0.17 0.42	9.00
22 07 19 00-0846 LF 14" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	54.46 0.18 0.45	9.09
22 07 19 00-0847 LF 15" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	56.47 0.19 0.48	9.28
22 07 19 00-0848 LF 16" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	58.14 0.21 0.52	9.38
22 07 19 00-0849 LF 17" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	60.20 0.22 0.55	9.58
22 07 19 00-0850 LF 18" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	61.46 0.23 0.57	9.68
22 07 19 00-0851 LF 19" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	64.00 0.24 0.61	9.90
22 07 19 00-0852 LF 20" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	65.73 0.26 0.64	10.01
22 07 19 00-0853 LF 21" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	67.89 0.27 0.67	10.25
22 07 19 00-0854 LF 22" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	69.62 0.28 0.70	10.37
22 07 19 00-0855 LF 23" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	71.88 0.29 0.74	10.61
22 07 19 00-0856 LF 24" ID, 0.040" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	73.64 0.31 0.77	10.74
22 07 19 00-0857 Aluminum Insulation Protective Jacketing For Fittings (22 07 19 00-0595)		
22 07 19 00-0858 EA 1-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	22.81	4.16
22 07 19 00-0859 EA 1-3/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	23.42	4.31
22 07 19 00-0860 EA 2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	25.69	4.48
22 07 19 00-0861 EA 2-1/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	25.97	4.55
22 07 19 00-0862 EA 2-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	26.26	4.63
22 07 19 00-0863 EA 2-3/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	26.71	4.74
22 07 19 00-0864 EA 3" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	27.84	4.86
22 07 19 00-0865 EA 3-1/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	28.33	4.98
22 07 19 00-0866 EA 3-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	30.21	5.07
22 07 19 00-0867 EA 3-3/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	30.82	5.16
22 07 19 00-0868 EA 4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	31.86	5.30
22 07 19 00-0869 EA 4-1/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	32.56	5.39
22 07 19 00-0870 EA 4-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	32.97	5.49
22 07 19 00-0871 EA 4-3/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	33.39	5.60
22 07 19 00-0872 EA 5" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	35.23	5.71
22 07 19 00-0873 EA 5-1/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	37.59	5.82
22 07 19 00-0874 EA 5-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	41.82	6.00
22 07 19 00-0875 EA 5-3/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	42.32	6.13
22 07 19 00-0876 EA 6" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	40.50	6.33
22 07 19 00-0877 EA 6-1/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	41.06	6.48
22 07 19 00-0878 EA 6-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	45.06	6.70
22 07 19 00-0879 EA 7" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	49.60	6.85
22 07 19 00-0880 EA 7-1/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	49.92	6.94
22 07 19 00-0881 EA 7-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	60.70	7.02
22 07 19 00-0882 EA 8" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	52.74	7.10
22 07 19 00-0883 EA 8-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	74.08	7.28
22 07 19 00-0884 EA 9" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	74.83	7.47
22 07 19 00-0885 EA 9-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	63.32	7.56
22 07 19 00-0886 EA 10" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	63.73	7.66
22 07 19 00-0887 EA 10-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	64.85	7.76
22 07 19 00-0888 EA 11" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	65.27	7.87
22 07 19 00-0889 EA 11-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	70.77	8.09
22 07 19 00-0890 EA 12" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	71.22	8.20
22 07 19 00-0891 EA 12-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing	102.12	8.44
22 07 19 00-0892 EA 13" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	102.62	8.57
22 07 19 00-0893 EA 14" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	126.97	8.83
22 07 19 00-0894 EA 15" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	132.24	9.10
22 07 19 00-0895 EA 16" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	141.53	9.24

22 Plumbing
22 07 Plumbing Insulation
22 07 19 Plumbing Piping Insulation



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
------------------------------	---------------------------	-------------------------

22 07 19 00-0896	EA 2-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing	24.90	4.63
22 07 19 00-0897	EA 2-3/4" ID, Aluminum 45 Degree Elbow Insulation Jacketing	25.35	4.74
22 07 19 00-0898	EA 3" ID, Aluminum 45 Degree Elbow Insulation Jacketing	26.67	4.86
22 07 19 00-0899	EA 3-1/4" ID, Aluminum 45 Degree Elbow Insulation Jacketing	27.16	4.98
22 07 19 00-0900	EA 3-1/2" ID Aluminum 45 Degree Elbow Insulation Jacketing	28.53	5.07
22 07 19 00-0901	EA 3-3/4" ID, Aluminum 45 Degree Elbow Insulation Jacketing	28.88	5.16
22 07 19 00-0902	EA 4" ID, Aluminum 45 Degree Elbow Insulation Jacketing	29.58	5.30
22 07 19 00-0903	EA 4-1/4" ID, Aluminum 45 Degree Elbow Insulation Jacketing	31.16	5.39
22 07 19 00-0904	EA 4-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing	31.57	5.49
22 07 19 00-0905	EA 4-3/4" ID, Aluminum 45 Degree Elbow Insulation Jacketing	31.99	5.60
22 07 19 00-0906	EA 5" ID, Aluminum 45 Degree Elbow Insulation Jacketing	34.10	5.71
22 07 19 00-0907	EA 5-1/4" ID, Aluminum 45 Degree Elbow Insulation Jacketing	34.56	5.82
22 07 19 00-0908	EA 5-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing	35.83	6.00
22 07 19 00-0909	EA 6" ID, Aluminum 45 Degree Elbow Insulation Jacketing	37.13	6.33
22 07 19 00-0910	EA 6-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing	43.09	6.70
22 07 19 00-0911	EA 7" ID, Aluminum 45 Degree Elbow Insulation Jacketing	43.72	6.85
22 07 19 00-0912	EA 7-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing	44.53	7.02
22 07 19 00-0913	EA 8" ID, Aluminum 45 Degree Elbow Insulation Jacketing	44.87	7.10
22 07 19 00-0914	EA 8-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing	49.59	7.28
22 07 19 00-0915	EA 9" ID, Aluminum 45 Degree Elbow Insulation Jacketing	50.34	7.47
22 07 19 00-0916	EA 9-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing	58.67	7.56
22 07 19 00-0917	EA 10" ID, Aluminum 45 Degree Elbow Insulation Jacketing	59.08	7.66
22 07 19 00-0918	EA 10-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing	57.64	7.76
22 07 19 00-0919	EA 11" ID, Aluminum 45 Degree Elbow Insulation Jacketing	58.06	7.87
22 07 19 00-0920	EA 11-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing	64.29	8.09
22 07 19 00-0921	EA 12" ID, Aluminum 45 Degree Elbow Insulation Jacketing	64.74	8.20
22 07 19 00-0922	EA 13" ID, Aluminum 45 Degree Elbow Insulation Jacketing	71.74	8.57
22 07 19 00-0923	EA 14" ID, Aluminum 45 Degree Elbow Insulation Jacketing	81.29	8.83
22 07 19 00-0924	EA 15" ID, Aluminum 45 Degree Elbow Insulation Jacketing	107.25	9.10
22 07 19 00-0925	EA 16" ID, Aluminum 45 Degree Elbow Insulation Jacketing	113.79	9.24
22 07 19 00-0926	EA 17" ID, Aluminum 45 Degree Elbow Insulation Jacketing	112.57	9.39
22 07 19 00-0927	EA 18" ID, Aluminum 45 Degree Elbow Insulation Jacketing	123.74	9.55
22 07 19 00-0928	EA 19" ID, Aluminum 45 Degree Elbow Insulation Jacketing	143.33	9.70
22 07 19 00-0929	EA 20" ID, Aluminum 45 Degree Elbow Insulation Jacketing	140.56	9.87
22 07 19 00-0930	EA 21" ID, Aluminum 45 Degree Elbow Insulation Jacketing	149.28	10.04
22 07 19 00-0931	EA 2-1/2" ID, Aluminum Tee Insulation Jacketing	70.51	6.62
22 07 19 00-0932	EA 2-3/4" ID, Aluminum Tee Insulation Jacketing	71.13	6.78
22 07 19 00-0933	EA 3" ID, Aluminum Tee Insulation Jacketing	77.49	6.94
22 07 19 00-0934	EA 3-1/4" ID, Aluminum Tee Insulation Jacketing	78.17	7.10
22 07 19 00-0935	EA 3-1/2" ID Aluminum Tee Insulation Jacketing	81.26	7.28
22 07 19 00-0936	EA 4" ID, Aluminum Tee Insulation Jacketing	82.58	7.47
22 07 19 00-0937	EA 4-1/4" ID, Aluminum Tee Insulation Jacketing	86.41	7.66
22 07 19 00-0938	EA 4-1/2" ID, Aluminum Tee Insulation Jacketing	86.77	7.87
22 07 19 00-0939	EA 4-3/4" ID, Aluminum Tee Insulation Jacketing	87.65	8.09
22 07 19 00-0940	EA 5" ID, Aluminum Tee Insulation Jacketing	90.64	8.33
22 07 19 00-0941	EA 5-1/4" ID, Aluminum Tee Insulation Jacketing	91.62	8.57
22 07 19 00-0942	EA 5-1/2" ID, Aluminum Tee Insulation Jacketing	95.20	8.83
22 07 19 00-0943	EA 6" ID, Aluminum Tee Insulation Jacketing	96.30	9.10
22 07 19 00-0944	EA 6-1/2" ID, Aluminum Tee Insulation Jacketing	104.62	9.70
22 07 19 00-0945	EA 7" ID, Aluminum Tee Insulation Jacketing	105.96	10.04
22 07 19 00-0946	EA 7-1/2" ID, Aluminum Tee Insulation Jacketing	114.76	10.40
22 07 19 00-0947	EA 8" ID, Aluminum Tee Insulation Jacketing	116.31	10.79
22 07 19 00-0948	EA 8-1/2" ID, Aluminum Tee Insulation Jacketing	119.89	11.20
22 07 19 00-0949	EA 9" ID, Aluminum Tee Insulation Jacketing	121.68	11.64
22 07 19 00-0950	EA 9-1/2" ID, Aluminum Tee Insulation Jacketing	103.28	11.88
22 07 19 00-0951	EA 10" ID, Aluminum Tee Insulation Jacketing	104.26	12.14
22 07 19 00-0952	EA 10-1/2" ID, Aluminum Tee Insulation Jacketing	108.93	12.39
22 07 19 00-0953	EA 11" ID, Aluminum Tee Insulation Jacketing	110.01	12.66
22 07 19 00-0954	EA 11-1/2" ID, Aluminum Tee Insulation Jacketing	114.37	12.94
22 07 19 00-0955	EA 12" ID, Aluminum Tee Insulation Jacketing	115.55	13.23
22 07 19 00-0956	EA 13" ID, Aluminum Tee Insulation Jacketing	119.90	13.54
22 07 19 00-0957	EA 14" ID, Aluminum Tee Insulation Jacketing	124.41	13.87
22 07 19 00-0958	EA 15" ID, Aluminum Tee Insulation Jacketing	131.38	14.21
22 07 19 00-0959	EA 16" ID, Aluminum Tee Insulation Jacketing	134.67	14.56
22 07 19 00-0960	EA 17" ID, Aluminum Tee Insulation Jacketing	147.61	14.93
22 07 19 00-0961	EA 18" ID, Aluminum Tee Insulation Jacketing	152.59	15.32
22 07 19 00-0962	EA 19" ID, Aluminum Tee Insulation Jacketing	163.92	15.75
22 07 19 00-0963	EA 20" ID, Aluminum Tee Insulation Jacketing	167.87	16.18
22 07 19 00-0964	EA 22" ID, Aluminum Tee Insulation Jacketing	197.79	16.64
22 07 19 00-0965	EA 23" ID, Aluminum Tee Insulation Jacketing	203.40	17.13
22 07 19 00-0966	EA 24" ID, Aluminum Tee Insulation Jacketing	213.54	18.79

22 07 19 00-0967 Stainless Steel Insulation Protective Jacketing With Bands (22 07 19 00-0594)

22 07 19 00-0968 Type 304 Stainless Steel Roll, Insulation Protective Jacketing With Bands (22 07 19 00-0967)

22 07 19 00-0969	SF 0.010" Stainless Steel Insulation Jacket With Bands	27.11	10.92
22 07 19 00-0970	SF 0.016" Stainless Steel Insulation Jacket With Bands	33.23	13.10



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
------------------------------	---------------------------	-------------------------

22 07 19 00-0971 10 Mil, Type 304 Stainless Steel, Insulation Protective Jacketing With Moisture Barrier And Bands (22 07 19 00-0967)

22 07 19 00-0972	LF	2-1/2" ID, 0.010" Stainless Steel Insulation Jacketing	13.22	2.33
22 07 19 00-0973	LF	2-3/4" ID, 0.010" Stainless Steel Insulation Jacketing	13.75	2.37
22 07 19 00-0974	LF	3" ID, 0.010" Stainless Steel Insulation Jacketing	14.29	2.42
22 07 19 00-0975	LF	3-1/4" ID, 0.010" Stainless Steel Insulation Jacketing	14.85	2.48
22 07 19 00-0976	LF	3-1/2" ID, 0.010" Stainless Steel Insulation Jacketing	15.42	2.53
22 07 19 00-0977	LF	3-3/4" ID, 0.010" Stainless Steel Insulation Jacketing	15.99	2.58
22 07 19 00-0978	LF	4" ID, 0.010" Stainless Steel Insulation Jacketing	16.57	2.64
22 07 19 00-0979	LF	4-1/4" ID, 0.010" Stainless Steel Insulation Jacketing	17.16	2.70
22 07 19 00-0980	LF	4-1/2" ID, 0.010" Stainless Steel Insulation Jacketing	17.76	2.78
22 07 19 00-0981	LF	5" ID, 0.010" Stainless Steel Insulation Jacketing	19.01	2.92
22 07 19 00-0982	LF	5-1/2" ID, 0.010" Stainless Steel Insulation Jacketing	20.32	3.07
22 07 19 00-0983	LF	6" ID, 0.010" Stainless Steel Insulation Jacketing	21.68	3.24
22 07 19 00-0984	LF	6-1/2" ID, 0.010" Stainless Steel Insulation Jacketing	22.74	3.33
22 07 19 00-0985	LF	7" ID, 0.010" Stainless Steel Insulation Jacketing	23.84	3.43
22 07 19 00-0986	LF	7-1/2" ID, 0.010" Stainless Steel Insulation Jacketing	25.03	3.55
22 07 19 00-0987	LF	8" ID, 0.010" Stainless Steel Insulation Jacketing	25.98	3.62
22 07 19 00-0988	LF	8-1/2" ID, 0.010" Stainless Steel Insulation Jacketing	26.95	3.69
22 07 19 00-0989	LF	9" ID, 0.010" Stainless Steel Insulation Jacketing	27.93	3.76
22 07 19 00-0990	LF	9-1/2" ID, 0.010" Stainless Steel Insulation Jacketing	28.91	3.83
22 07 19 00-0991	LF	10" ID, 0.010" Stainless Steel Insulation Jacketing	29.92	3.91
22 07 19 00-0992	LF	10-1/2" ID, 0.010" Stainless Steel Insulation Jacketing	30.94	3.99
22 07 19 00-0993	LF	11" ID, 0.010" Stainless Steel Insulation Jacketing	31.96	4.07
22 07 19 00-0994	LF	12" ID, 0.010" Stainless Steel Insulation Jacketing	34.05	4.25
22 07 19 00-0995	LF	13" ID, 0.010" Stainless Steel Insulation Jacketing	36.09	4.41
22 07 19 00-0996	LF	14" ID, 0.010" Stainless Steel Insulation Jacketing	37.74	4.48

22 07 19 00-0997 16 Mil, Type 304 Stainless Steel, Insulation Protective Jacketing With Moisture Barrier And Bands (22 07 19 00-0967)

22 07 19 00-0998	LF	2-1/2" ID, 0.016" Stainless Steel Insulation Jacketing	18.05	3.10
22 07 19 00-0999	LF	2-3/4" ID, 0.016" Stainless Steel Insulation Jacketing	18.80	3.16
22 07 19 00-1000	LF	3" ID, 0.016" Stainless Steel Insulation Jacketing	19.56	3.23
22 07 19 00-1001	LF	3-1/4" ID, 0.016" Stainless Steel Insulation Jacketing	20.35	3.30
22 07 19 00-1002	LF	3-1/2" ID, 0.016" Stainless Steel Insulation Jacketing	21.14	3.37
22 07 19 00-1003	LF	3-3/4" ID, 0.016" Stainless Steel Insulation Jacketing	21.95	3.44
22 07 19 00-1004	LF	4" ID, 0.016" Stainless Steel Insulation Jacketing	22.76	3.52
22 07 19 00-1005	LF	4-1/4" ID, 0.016" Stainless Steel Insulation Jacketing	23.58	3.60
22 07 19 00-1006	LF	4-1/2" ID, 0.016" Stainless Steel Insulation Jacketing	24.41	3.69
22 07 19 00-1007	LF	5" ID, 0.016" Stainless Steel Insulation Jacketing	26.17	3.87
22 07 19 00-1008	LF	5-1/2" ID, 0.016" Stainless Steel Insulation Jacketing	27.99	4.07
22 07 19 00-1009	LF	6" ID, 0.016" Stainless Steel Insulation Jacketing	29.89	4.30
22 07 19 00-1010	LF	6-1/2" ID, 0.016" Stainless Steel Insulation Jacketing	31.39	4.42
22 07 19 00-1011	LF	7" ID, 0.016" Stainless Steel Insulation Jacketing	32.93	4.55
22 07 19 00-1012	LF	7-1/2" ID, 0.016" Stainless Steel Insulation Jacketing	34.58	4.73
22 07 19 00-1013	LF	8" ID, 0.016" Stainless Steel Insulation Jacketing	35.93	4.82
22 07 19 00-1014	LF	8-1/2" ID, 0.016" Stainless Steel Insulation Jacketing	37.30	4.91
22 07 19 00-1015	LF	9" ID, 0.016" Stainless Steel Insulation Jacketing	38.70	5.00
22 07 19 00-1016	LF	9-1/2" ID, 0.016" Stainless Steel Insulation Jacketing	40.09	5.10
22 07 19 00-1017	LF	10" ID, 0.016" Stainless Steel Insulation Jacketing	41.50	5.20
22 07 19 00-1018	LF	10-1/2" ID, 0.016" Stainless Steel Insulation Jacketing	42.96	5.31
22 07 19 00-1019	LF	11" ID, 0.016" Stainless Steel Insulation Jacketing	44.39	5.42
22 07 19 00-1020	LF	12" ID, 0.016" Stainless Steel Insulation Jacketing	47.33	5.65
22 07 19 00-1021	LF	13" ID, 0.016" Stainless Steel Insulation Jacketing	50.22	5.87
22 07 19 00-1022	LF	14" ID, 0.016" Stainless Steel Insulation Jacketing	52.57	5.96

22 07 19 00-1023 Type 316 Stainless Steel Insulation Protective Jacketing For Fittings (22 07 19 00-0967)

22 07 19 00-1024	EA	2-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	35.70	4.63
22 07 19 00-1025	EA	2-3/4" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	36.15	4.74
22 07 19 00-1026	EA	3" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	37.42	4.86
22 07 19 00-1027	EA	3-1/4" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	37.91	4.98
22 07 19 00-1028	EA	3-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	39.17	5.07
22 07 19 00-1029	EA	3-3/4" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	40.59	5.16
22 07 19 00-1030	EA	4" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	43.14	5.30
22 07 19 00-1031	EA	4-1/4" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	50.76	5.39
22 07 19 00-1032	EA	4-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	51.17	5.49
22 07 19 00-1033	EA	5" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	52.71	5.71
22 07 19 00-1034	EA	5-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	68.54	6.00
22 07 19 00-1035	EA	6" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	74.19	6.33
22 07 19 00-1036	EA	6-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	94.05	6.70
22 07 19 00-1037	EA	7" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	94.68	6.85
22 07 19 00-1038	EA	7-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	106.62	7.02
22 07 19 00-1039	EA	8" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	107.67	7.28
22 07 19 00-1040	EA	8-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	110.34	7.28
22 07 19 00-1041	EA	9" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	153.41	7.47
22 07 19 00-1042	EA	9-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	151.64	7.56
22 07 19 00-1043	EA	10" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	152.05	7.66



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-1044	EA		10-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	176.30	7.76
22 07 19 00-1045	EA		11" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	170.13	7.87
22 07 19 00-1046	EA		12" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	190.21	8.20
22 07 19 00-1047	EA		13" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	252.34	8.57
22 07 19 00-1048	EA		14" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing	254.85	8.83
22 07 19 00-1049	EA		2-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	32.84	4.63
22 07 19 00-1050	EA		2-3/4" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	33.29	4.74
22 07 19 00-1051	EA		3" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	34.86	4.86
22 07 19 00-1052	EA		3-1/4" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	35.35	4.98
22 07 19 00-1053	EA		3-1/2" ID Stainless Steel 45 Degree Elbow Insulation Jacketing	35.89	5.07
22 07 19 00-1054	EA		3-3/4" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	36.24	5.16
22 07 19 00-1055	EA		4" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	41.27	5.30
22 07 19 00-1056	EA		4-1/4" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	49.77	5.39
22 07 19 00-1057	EA		4-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	50.18	5.49
22 07 19 00-1058	EA		4-3/4" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	50.60	5.60
22 07 19 00-1059	EA		5" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	51.52	5.71
22 07 19 00-1060	EA		5-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	52.70	6.00
22 07 19 00-1061	EA		6" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	59.35	6.33
22 07 19 00-1062	EA		6-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	60.81	6.70
22 07 19 00-1063	EA		7" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	84.99	6.85
22 07 19 00-1064	EA		7-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	86.83	7.02
22 07 19 00-1065	EA		8" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	87.17	7.10
22 07 19 00-1066	EA		8-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	97.88	7.28
22 07 19 00-1067	EA		9" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	98.63	7.47
22 07 19 00-1068	EA		9-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	110.98	7.56
22 07 19 00-1069	EA		10" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	111.39	7.66
22 07 19 00-1070	EA		10-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	128.08	7.76
22 07 19 00-1071	EA		11" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	128.50	7.87
22 07 19 00-1072	EA		12" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	138.17	8.20
22 07 19 00-1073	EA		13" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing	158.24	8.57
22 07 19 00-1074 Polyvinyl Chloride (PVC) Insulation Protective Jacketing (22 07 19 00-0594)					
22 07 19 00-1075 20 Mil Polyvinyl Chloride (PVC) Insulation Protective Jacketing (22 07 19 00-1074)					
22 07 19 00-1076	LF		1-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	10.31	2.16
22 07 19 00-1077	LF		2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	11.20	2.24
22 07 19 00-1078	LF		2-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	11.98	2.33
22 07 19 00-1079	LF		3" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	12.92	2.42
22 07 19 00-1080	LF		3-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	13.77	2.53
22 07 19 00-1081	LF		4" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	14.72	2.64
22 07 19 00-1082	LF		4-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	15.71	2.78
22 07 19 00-1083	LF		5" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	16.68	2.92
22 07 19 00-1084	LF		5-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	17.79	3.07
22 07 19 00-1085	LF		6" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	18.96	3.24
22 07 19 00-1086	LF		6-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	19.82	3.33
22 07 19 00-1087	LF		7" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	20.63	3.43
22 07 19 00-1088	LF		7-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	21.70	3.55
22 07 19 00-1089	LF		8" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	22.38	3.62
22 07 19 00-1090	LF		8-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	23.15	3.69
22 07 19 00-1091	LF		9" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	23.92	3.76
22 07 19 00-1092	LF		9-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	24.70	3.83
22 07 19 00-1093	LF		10" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	25.44	3.91
22 07 19 00-1094	LF		10-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	26.25	3.99
22 07 19 00-1095	LF		11" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	27.07	4.07
22 07 19 00-1096	LF		11-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	27.91	4.16
22 07 19 00-1097	LF		12" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	28.69	4.25
22 07 19 00-1098	LF		12-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	29.63	4.34
22 07 19 00-1099	LF		13" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	30.31	4.41
22 07 19 00-1100	LF		13-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	30.80	4.41
22 07 19 00-1101	LF		14" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	31.56	4.48
22 07 19 00-1102	LF		15" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	32.82	4.55
22 07 19 00-1103	LF		16" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	34.02	4.63
22 07 19 00-1104	LF		17" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	35.30	4.70
22 07 19 00-1105	LF		18" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	36.58	4.78
22 07 19 00-1106	LF		19" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	37.82	4.86
22 07 19 00-1107	LF		20" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	39.13	4.94
22 07 19 00-1108	LF		21" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	40.37	5.02
22 07 19 00-1109	LF		22" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	41.70	5.11
22 07 19 00-1110	LF		23" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	42.98	5.20
22 07 19 00-1111	LF		24" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	44.34	5.30
22 07 19 00-1112	LF		25" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	45.71	5.39
22 07 19 00-1113	LF		26" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	47.03	5.49
22 07 19 00-1114	LF		27" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	48.43	5.60
22 07 19 00-1115	LF		28" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	49.78	5.71
22 07 19 00-1116	LF		29" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	51.22	5.82
22 07 19 00-1117	LF		30" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing	52.67	5.94
22 07 19 00-1118 30 Mil Polyvinyl Chloride (PVC) Insulation Protective Jacketing (22 07 19 00-1074)					
22 07 19 00-1119	LF		2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	12.25	2.24



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-1120	LF		2-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	13.31	2.33
22 07 19 00-1121	LF		3" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	14.46	2.42
22 07 19 00-1122	LF		3-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	15.52	2.53
22 07 19 00-1123	LF		4" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	16.68	2.64
22 07 19 00-1124	LF		4-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	17.88	2.78
22 07 19 00-1125	LF		5" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	19.13	2.92
22 07 19 00-1126	LF		5-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	20.45	3.07
22 07 19 00-1127	LF		6" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	21.83	3.24
22 07 19 00-1128	LF		6-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	22.90	3.33
22 07 19 00-1129	LF		7" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	23.99	3.43
22 07 19 00-1130	LF		7-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	25.27	3.55
22 07 19 00-1131	LF		8" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	26.23	3.62
22 07 19 00-1132	LF		8-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	27.21	3.69
22 07 19 00-1133	LF		9" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	28.18	3.76
22 07 19 00-1134	LF		9-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	29.17	3.83
22 07 19 00-1135	LF		10" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	30.19	3.91
22 07 19 00-1136	LF		10-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	31.21	3.99
22 07 19 00-1137	LF		11" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	32.24	4.07
22 07 19 00-1138	LF		11-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	33.29	4.16
22 07 19 00-1139	LF		12" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	34.35	4.25
22 07 19 00-1140	LF		12-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	35.50	4.34
22 07 19 00-1141	LF		13" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	36.47	4.41
22 07 19 00-1142	LF		13-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	37.17	4.41
22 07 19 00-1143	LF		14" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	38.14	4.48
22 07 19 00-1144	LF		15" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	39.82	4.55
22 07 19 00-1145	LF		16" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	41.51	4.63
22 07 19 00-1146	LF		17" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	43.21	4.70
22 07 19 00-1147	LF		18" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	44.98	4.78
22 07 19 00-1148	LF		19" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	46.71	4.86
22 07 19 00-1149	LF		20" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	48.44	4.94
22 07 19 00-1150	LF		21" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	50.17	5.02
22 07 19 00-1151	LF		22" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	51.92	5.11
22 07 19 00-1152	LF		23" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	53.69	5.20
22 07 19 00-1153	LF		24" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	55.47	5.30
22 07 19 00-1154	LF		25" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	57.33	5.39
22 07 19 00-1155	LF		26" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	59.14	5.49
22 07 19 00-1156	LF		27" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	60.95	5.60
22 07 19 00-1157	LF		28" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	62.79	5.71
22 07 19 00-1158	LF		29" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	64.65	5.82
22 07 19 00-1159	LF		30" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	66.52	5.94

22 07 19 00-1160

Polyvinyl Chloride (PVC) Insulation Protective Jacketing For Fittings (22 07 19 00-

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-1161	EA		1-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	21.10	4.31
22 07 19 00-1162	EA		2" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	22.68	4.48
22 07 19 00-1163	EA		2-1/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	23.52	4.55
22 07 19 00-1164	EA		2-1/2" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	24.37	4.63
22 07 19 00-1165	EA		2-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	25.31	4.74
22 07 19 00-1166	EA		3" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	26.14	4.86
22 07 19 00-1167	EA		3-3/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	27.71	5.02
22 07 19 00-1168	EA		3-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	29.15	5.16
22 07 19 00-1169	EA		4-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	31.96	5.30
22 07 19 00-1170	EA		4-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	35.20	5.55
22 07 19 00-1171	EA		5-1/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	38.48	5.82
22 07 19 00-1172	EA		5-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	44.53	6.13
22 07 19 00-1173	EA		6-1/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	59.26	6.48
22 07 19 00-1174	EA		6-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	61.91	6.70
22 07 19 00-1175	EA		7-1/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	71.42	6.85
22 07 19 00-1176	EA		7-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	74.25	7.02
22 07 19 00-1177	EA		8-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	88.53	7.28
22 07 19 00-1178	EA		9-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	109.60	7.56
22 07 19 00-1179	EA		10-7/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	120.06	7.87
22 07 19 00-1180	EA		11-7/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	134.34	8.20
22 07 19 00-1181	EA		12-7/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	162.45	8.57
22 07 19 00-1182	EA		14-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	181.82	8.83
22 07 19 00-1183	EA		15-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	193.84	9.10
22 07 19 00-1184	EA		16-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	208.83	9.24
22 07 19 00-1185	EA		17-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	228.24	9.39
22 07 19 00-1186	EA		18-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	284.14	9.55
22 07 19 00-1187	EA		19-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	372.74	9.70
22 07 19 00-1188	EA		20-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	468.63	9.87
22 07 19 00-1189	EA		1-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	21.10	4.31
22 07 19 00-1190	EA		2" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	22.68	4.48
22 07 19 00-1191	EA		2-1/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	23.52	4.55
22 07 19 00-1192	EA		2-1/2" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	24.37	4.63
22 07 19 00-1193	EA		2-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	25.31	4.74
22 07 19 00-1194	EA		3" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	26.14	4.86
22 07 19 00-1195	EA		3-3/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	27.71	5.02
22 07 19 00-1196	EA		3-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	29.15	5.16
22 07 19 00-1197	EA		4-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	31.96	5.30
22 07 19 00-1198	EA		4-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	35.20	5.55



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-1199	EA		5-1/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	38.48	5.82
22 07 19 00-1200	EA		5-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	44.53	6.13
22 07 19 00-1201	EA		6-1/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	59.26	6.48
22 07 19 00-1202	EA		6-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	61.91	6.70
22 07 19 00-1203	EA		7-1/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	71.42	6.85
22 07 19 00-1204	EA		7-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	74.25	7.02
22 07 19 00-1205	EA		8-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	88.53	7.28
22 07 19 00-1206	EA		9-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	109.60	7.56
22 07 19 00-1207	EA		10-7/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	119.99	7.87
22 07 19 00-1208	EA		11-7/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	130.42	8.20
22 07 19 00-1209	EA		12-7/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	143.21	8.57
22 07 19 00-1210	EA		14-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	159.78	8.83
22 07 19 00-1211	EA		15-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	169.98	9.10
22 07 19 00-1212	EA		16-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	189.52	9.24
22 07 19 00-1213	EA		17-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	209.35	9.39
22 07 19 00-1214	EA		18-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	248.11	9.55
22 07 19 00-1215	EA		19-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	325.16	9.70
22 07 19 00-1216	EA		20-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	363.81	9.87
22 07 19 00-1217	EA		1-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	31.55	6.06
22 07 19 00-1218	EA		2" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	33.05	6.19
22 07 19 00-1219	EA		2-1/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	34.56	6.40
22 07 19 00-1220	EA		2-1/2" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	36.27	6.62
22 07 19 00-1221	EA		2-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	38.19	6.85
22 07 19 00-1222	EA		3" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	40.10	7.10
22 07 19 00-1223	EA		3-3/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	42.92	7.37
22 07 19 00-1224	EA		3-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	45.91	7.66
22 07 19 00-1225	EA		4-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	49.96	7.98
22 07 19 00-1226	EA		4-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	55.74	8.33
22 07 19 00-1227	EA		5-1/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	61.78	8.70
22 07 19 00-1228	EA		5-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	72.88	9.24
22 07 19 00-1229	EA		6-1/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	85.99	9.70
22 07 19 00-1230	EA		6-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	97.85	9.87
22 07 19 00-1231	EA		7-1/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	135.19	10.22
22 07 19 00-1232	EA		7-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	146.57	10.79
22 07 19 00-1233	EA		8-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	170.61	11.20
22 07 19 00-1234	EA		9-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	194.93	11.64
22 07 19 00-1235	EA		10-7/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	198.62	12.14
22 07 19 00-1236	EA		11-7/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	216.31	12.39
22 07 19 00-1237	EA		12-7/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	234.05	12.66
22 07 19 00-1238	EA		14-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	251.96	12.94
22 07 19 00-1239	EA		15-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	269.72	13.23
22 07 19 00-1240	EA		16-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	287.68	13.54
22 07 19 00-1241	EA		17-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	305.48	13.87
22 07 19 00-1242	EA		18-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	332.02	14.21
22 07 19 00-1243	EA		19-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	358.49	14.56
22 07 19 00-1244	EA		20-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	390.57	14.93
22 07 19 00-1245	EA		3/4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	47.08	4.16
22 07 19 00-1246	EA		1" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	47.08	4.16
22 07 19 00-1247	EA		1-1/4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	55.80	4.31
22 07 19 00-1248	EA		1-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	55.80	4.31
22 07 19 00-1249	EA		2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	78.73	4.48
22 07 19 00-1250	EA		2-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	86.16	4.66
22 07 19 00-1251	EA		3" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	95.06	4.86
22 07 19 00-1252	EA		3-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	107.80	5.07
22 07 19 00-1253	EA		4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	118.72	5.30
22 07 19 00-1254	EA		5" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	144.56	5.82
22 07 19 00-1255	EA		6" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	205.01	6.48
22 07 19 00-1256	EA		8" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	224.20	7.28
22 07 19 00-1257	EA		10" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	280.65	7.76
22 07 19 00-1258	EA		12" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	393.22	8.57
22 07 19 00-1259	EA		14" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	395.44	8.96
22 07 19 00-1260	EA		16" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	526.01	9.24
22 07 19 00-1261	EA		18" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	710.76	9.55
22 07 19 00-1262	EA		3/4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	43.72	4.16
22 07 19 00-1263	EA		1" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	43.72	4.16
22 07 19 00-1264	EA		1-1/4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	51.75	4.31
22 07 19 00-1265	EA		1-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	51.75	4.31
22 07 19 00-1266	EA		2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	72.08	4.48
22 07 19 00-1267	EA		2-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	78.75	4.66
22 07 19 00-1268	EA		3" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	86.94	4.86
22 07 19 00-1269	EA		3-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	91.49	5.07
22 07 19 00-1270	EA		4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	107.95	5.30
22 07 19 00-1271	EA		5" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	131.20	5.82
22 07 19 00-1272	EA		6" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	185.35	6.48
22 07 19 00-1273	EA		8" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	202.65	7.28
22 07 19 00-1274	EA		10" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	253.22	7.76
22 07 19 00-1275	EA		12" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	353.96	8.57
22 07 19 00-1276	EA		14" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	451.69	8.96
22 07 19 00-1277	EA		16" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	540.78	9.24
22 07 19 00-1278	EA		18" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	632.81	9.55
22 07 19 00-1279	EA		3/4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	64.72	6.26



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-1280	EA			1" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	64.72	6.26
22 07 19 00-1281	EA			1-1/4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	75.98	6.48
22 07 19 00-1282	EA			1-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	75.98	6.48
22 07 19 00-1283	EA			2"ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	105.78	6.70
22 07 19 00-1284	EA			2-1/2"ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	115.61	6.94
22 07 19 00-1285	EA			3" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	127.43	7.28
22 07 19 00-1286	EA			3-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	134.44	7.56
22 07 19 00-1287	EA			4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	159.12	7.98
22 07 19 00-1288	EA			5" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	174.92	8.70
22 07 19 00-1289	EA			6" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	246.16	9.70
22 07 19 00-1290	EA			8" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	267.90	10.79
22 07 19 00-1291	EA			10" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	371.12	11.64
22 07 19 00-1292	EA			12" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	517.15	12.66
22 07 19 00-1293	EA			14" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	617.66	13.54
22 07 19 00-1294	EA			16" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	731.40	13.87
22 07 19 00-1295	EA			18" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	801.46	14.21

22 10 Plumbing Piping ⁽²²⁾

Note: The demolition price for only the length of pipe (LF) shall be used for lengths (LF) of pipe removal which exclude the fittings, valves, and insulation. The demolition price for individual fittings, valves, and insulation shall not be used in conjunction with pipe (LF) demolition tasks.

22 11 Facility Water Distribution ^(22 10)

22 11 16 Domestic Water Piping ^(22 11)

Note: The demolition price for only the length of pipe (LF) shall be used for lengths (LF) of pipe removal which exclude the fittings, valves, and insulation. The demolition price for individual fittings, valves, and insulation shall not be used in conjunction with pipe (LF) demolition tasks. See CSI section 23 21 13 00-0000 for black steel piping and fitting.

22 11 16 00-0001 Galvanized Steel Pipe Assemblies ^(22 11 16)

Note: (ASTM A-53) Threaded and coupled. Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Includes cutting and threading to length where necessary. Not for use where detail is available.

22 11 16 00-0002	LF			1/2" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly	24.77	5.64
				Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
				For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add	6.47	
				For ASTM 120, Deduct	-0.91	
				For Work In Restricted Working Space, Add	5.61	
22 11 16 00-0003	LF			3/4" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly	27.32	6.06
				Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
				For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add	7.35	
				For ASTM 120, Deduct	-1.13	
				For Work In Restricted Working Space, Add	5.94	
22 11 16 00-0004	LF			1" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly	31.23	6.63
				Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
				For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add	8.76	
				For ASTM 120, Deduct	-1.51	
				For Work In Restricted Working Space, Add	6.35	
22 11 16 00-0005	LF			1-1/4" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly	36.83	6.91
				Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
				For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add	10.96	
				For ASTM 120, Deduct	-2.16	
				For Work In Restricted Working Space, Add	6.74	
22 11 16 00-0006	LF			1-1/2" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly	39.87	8.18
				Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
				For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add	12.08	
				For ASTM 120, Deduct	-2.47	
				For Work In Restricted Working Space, Add	7.03	
22 11 16 00-0007	LF			2" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly	48.42	9.86
				Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
				For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add	15.12	
				For ASTM 120, Deduct	-3.26	
				For Work In Restricted Working Space, Add	8.00	
22 11 16 00-0008	LF			2-1/2" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly	71.33	11.70
				Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
				For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add	24.29	
				For ASTM 120, Deduct	-6.01	
				For Work In Restricted Working Space, Add	9.37	
22 11 16 00-0009	LF			3" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly	88.07	15.65
				Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
				For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add	30.17	
				For ASTM 120, Deduct	-7.53	
				For Work In Restricted Working Space, Add	11.36	

22 Plumbing
22 10 Plumbing Piping
22 11 Facility Water Distribution



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0010	LF		4" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly .....133.30 Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. <i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i> 50.28 <i>For ASTM 120, Deduct</i> -14.17 <i>For Work In Restricted Working Space, Add</i> 11.64		16.61
22 11 16 00-0011	LF		5" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly .....235.93 Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. <i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i> 94.45 <i>For ASTM 120, Deduct</i> -28.36 <i>For Work In Restricted Working Space, Add</i> 14.07		21.23
22 11 16 00-0012	LF		6" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly .....286.58 Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. <i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i> 115.64 <i>For ASTM 120, Deduct</i> -35.00 <i>For Work In Restricted Working Space, Add</i> 15.98		25.11
22 11 16 00-0013			Galvanized Steel Pipe And Threaded Fittings <small>(22 11 16)</small> Note: (ASTM A-53) Threaded and coupled, schedule 40. Excludes hangers, elbow, tee, or reducer fittings.		
22 11 16 00-0014			Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe <small>(22 11 16 00-0013)</small> Note: ASTM A-53. Welded pipe has a weld bead on the inside. Includes coupling. Includes cutting and threading to length where necessary.		
22 11 16 00-0015	LF		1/2" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe .....11.98 <i>For Schedule 80 Pipe, Add</i> 2.50 <i>For ASTM 120, Deduct</i> -0.51 <i>For Work In Restricted Working Space, Add</i> 2.57		5.64
22 11 16 00-0016	LF		3/4" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe .....13.63 <i>For Schedule 80 Pipe, Add</i> 3.08 <i>For ASTM 120, Deduct</i> -0.68 <i>For Work In Restricted Working Space, Add</i> 2.73		6.06
22 11 16 00-0017	LF		1" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe .....16.58 <i>For Schedule 80 Pipe, Add</i> 4.22 <i>For ASTM 120, Deduct</i> -1.01 <i>For Work In Restricted Working Space, Add</i> 2.96		6.63
22 11 16 00-0018	LF		1-1/4" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe .....19.56 <i>For Schedule 80 Pipe, Add</i> 5.42 <i>For ASTM 120, Deduct</i> -1.37 <i>For Work In Restricted Working Space, Add</i> 3.14		6.91
22 11 16 00-0019	LF		1-1/2" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe .....23.16 <i>For Schedule 80 Pipe, Add</i> 6.46 <i>For ASTM 120, Deduct</i> -1.64 <i>For Work In Restricted Working Space, Add</i> 3.68		8.18
22 11 16 00-0020	LF		2" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe .....29.47 <i>For Schedule 80 Pipe, Add</i> 8.51 <i>For ASTM 120, Deduct</i> -2.19 <i>For Work In Restricted Working Space, Add</i> 4.45		9.86
22 11 16 00-0021	LF		2-1/2" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe .....40.83 <i>For Schedule 80 Pipe, Add</i> 12.90 <i>For ASTM 120, Deduct</i> -3.48 <i>For Work In Restricted Working Space, Add</i> 5.29		11.70
22 11 16 00-0022	LF		3" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe .....53.89 <i>For Schedule 80 Pipe, Add</i> 16.94 <i>For ASTM 120, Deduct</i> -4.56 <i>For Work In Restricted Working Space, Add</i> 7.05		15.65
22 11 16 00-0023	LF		4" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe .....68.24 <i>For Schedule 80 Pipe, Add</i> 23.26 <i>For ASTM 120, Deduct</i> -6.49 <i>For Work In Restricted Working Space, Add</i> 7.49		16.61
22 11 16 00-0024	LF		5" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe .....89.81 <i>For Schedule 80 Pipe, Add</i> 31.03 <i>For ASTM 120, Deduct</i> -8.70 <i>For Work In Restricted Working Space, Add</i> 9.54		21.23
22 11 16 00-0025	LF		6" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe .....112.87 <i>For Schedule 80 Pipe, Add</i> 39.89 <i>For ASTM 120, Deduct</i> -11.29 <i>For Work In Restricted Working Space, Add</i> 11.28		25.11
22 11 16 00-0026	LF		8" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe .....126.73 <i>For Schedule 80 Pipe, Add</i> 43.57 <i>For ASTM 120, Deduct</i> -12.20 <i>For Work In Restricted Working Space, Add</i> 13.63		30.35
22 11 16 00-0027			Seamless, Threaded And Coupled, Galvanized Steel Pipe <small>(22 11 16 00-0013)</small> Note: ASTM A-53. Includes coupling. Includes cutting and threading to length where necessary.		
22 11 16 00-0028	LF		1/2" Schedule 40, Seamless, Threaded Galvanized Steel Pipe.....16.74 <i>For Schedule 80 Pipe, Add</i> 4.79 <i>For ASTM 120, Deduct</i> -1.23 <i>For Work In Restricted Working Space, Add</i> 2.57		5.64
22 11 16 00-0029	LF		3/4" Schedule 40, Seamless, Threaded Galvanized Steel Pipe.....18.91 <i>For Schedule 80 Pipe, Add</i> 5.62 <i>For ASTM 120, Deduct</i> -1.47 <i>For Work In Restricted Working Space, Add</i> 2.73		6.06



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0030	LF			1" Schedule 40, Seamless, Threaded Galvanized Steel Pipe .....21.26 <i>For Schedule 80 Pipe, Add</i> 6.46 <i>For ASTM 120, Deduct</i> -1.71 <i>For Work In Restricted Working Space, Add</i> 2.96		6.63
22 11 16 00-0031	LF			1-1/4" Schedule 40, Seamless, Threaded Galvanized Steel Pipe .....24.79 <i>For Schedule 80 Pipe, Add</i> 7.93 <i>For ASTM 120, Deduct</i> -2.15 <i>For Work In Restricted Working Space, Add</i> 3.14		6.91
22 11 16 00-0032	LF			1-1/2" Schedule 40, Seamless, Threaded Galvanized Steel Pipe .....28.63 <i>For Schedule 80 Pipe, Add</i> 9.08 <i>For ASTM 120, Deduct</i> -2.46 <i>For Work In Restricted Working Space, Add</i> 3.68		8.18
22 11 16 00-0033	LF			2" Schedule 40, Seamless, Threaded Galvanized Steel Pipe .....33.49 <i>For Schedule 80 Pipe, Add</i> 10.44 <i>For ASTM 120, Deduct</i> -2.80 <i>For Work In Restricted Working Space, Add</i> 4.45		9.86
22 11 16 00-0034	LF			2-1/2" Schedule 40, Seamless, Threaded Galvanized Steel Pipe .....48.83 <i>For Schedule 80 Pipe, Add</i> 16.74 <i>For ASTM 120, Deduct</i> -4.68 <i>For Work In Restricted Working Space, Add</i> 5.29		11.70
22 11 16 00-0035	LF			3" Schedule 40, Seamless, Threaded Galvanized Steel Pipe .....61.66 <i>For Schedule 80 Pipe, Add</i> 20.67 <i>For ASTM 120, Deduct</i> -5.72 <i>For Work In Restricted Working Space, Add</i> 7.05		15.65
22 11 16 00-0036	LF			4" Schedule 40, Seamless, Threaded Galvanized Steel Pipe .....79.53 <i>For Schedule 80 Pipe, Add</i> 28.68 <i>For ASTM 120, Deduct</i> -8.18 <i>For Work In Restricted Working Space, Add</i> 7.49		16.61
22 11 16 00-0037	LF			5" Schedule 40, Seamless, Threaded Galvanized Steel Pipe .....103.00 <i>For Schedule 80 Pipe, Add</i> 37.36 <i>For ASTM 120, Deduct</i> -10.68 <i>For Work In Restricted Working Space, Add</i> 9.54		21.23
22 11 16 00-0038	LF			6" Schedule 40, Seamless, Threaded Galvanized Steel Pipe .....128.70 <i>For Schedule 80 Pipe, Add</i> 47.48 <i>For ASTM 120, Deduct</i> -13.66 <i>For Work In Restricted Working Space, Add</i> 11.28		25.11
22 11 16 00-0039				Galvanized Malleable Iron 90 Degree Elbows (22 11 16 00-0013)		
22 11 16 00-0040	EA			1/2", 150 LB, Galvanized Malleable Iron 90 Degree Elbow .....44.81 <i>For 300 LB Rating, Add</i> 26.77 <i>For ASTM 120, Deduct</i> -1.08 <i>For Work In Restricted Working Space, Add</i> 11.28		25.10
22 11 16 00-0041	EA			3/4", 150 LB, Galvanized Malleable Iron 90 Degree Elbow .....50.93 <i>For 300 LB Rating, Add</i> 32.61 <i>For ASTM 120, Deduct</i> -1.33 <i>For Work In Restricted Working Space, Add</i> 12.62		28.06
22 11 16 00-0042	EA			1", 150 LB, Galvanized Malleable Iron 90 Degree Elbow .....63.39 <i>For 300 LB Rating, Add</i> 58.58 <i>For ASTM 120, Deduct</i> -2.46 <i>For Work In Restricted Working Space, Add</i> 14.10		31.29
22 11 16 00-0043	EA			1-1/4", 150 LB, Galvanized Malleable Iron 90 Degree Elbow .....79.13 <i>For 300 LB Rating, Add</i> 91.32 <i>For ASTM 120, Deduct</i> -3.89 <i>For Work In Restricted Working Space, Add</i> 15.96		35.53
22 11 16 00-0044	EA			1-1/2", 150 LB, Galvanized Malleable Iron 90 Degree Elbow .....93.82 <i>For 300 LB Rating, Add</i> 118.62 <i>For ASTM 120, Deduct</i> -5.07 <i>For Work In Restricted Working Space, Add</i> 18.00		40.04
22 11 16 00-0045	EA			2", 150 LB, Galvanized Malleable Iron 90 Degree Elbow .....131.61 <i>For 300 LB Rating, Add</i> 192.97 <i>For ASTM 120, Deduct</i> -8.31 <i>For Work In Restricted Working Space, Add</i> 22.86		50.89
22 11 16 00-0046	EA			2-1/2", 150 LB, Galvanized Malleable Iron 90 Degree Elbow .....257.77 <i>For 300 LB Rating, Add</i> 499.70 <i>For ASTM 120, Deduct</i> -21.75 <i>For Work In Restricted Working Space, Add</i> 33.84		75.29
22 11 16 00-0047	EA			3", 150 LB, Galvanized Malleable Iron 90 Degree Elbow .....387.43 <i>For 300 LB Rating, Add</i> 821.61 <i>For ASTM 120, Deduct</i> -35.85 <i>For Work In Restricted Working Space, Add</i> 44.52		98.97
22 11 16 00-0048	EA			4", 150 LB, Galvanized Malleable Iron 90 Degree Elbow .....567.31 <i>For 300 LB Rating, Add</i> 1,442.12 <i>For ASTM 120, Deduct</i> -63.24 <i>For Work In Restricted Working Space, Add</i> 43.72		97.18
22 11 16 00-0049	EA			5", 150 LB, Galvanized Malleable Iron 90 Degree Elbow .....1,972.69 <i>For 300 LB Rating, Add</i> 6,199.23 <i>For ASTM 120, Deduct</i> -273.09 <i>For Work In Restricted Working Space, Add</i> 45.62		101.43
22 11 16 00-0050	EA			6", 150 LB, Galvanized Malleable Iron 90 Degree Elbow .....1,837.39 <i>For 300 LB Rating, Add</i> 5,716.13 <i>For ASTM 120, Deduct</i> -251.76 <i>For Work In Restricted Working Space, Add</i> 47.69		106.05

22	Plumbing
22 10	Plumbing Piping
22 11	Facility Water Distribution



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0051 EA 8", 150 LB, Galvanized Malleable Iron 90 Degree Elbow For 300 LB Rating, Add For ASTM 120, Deduct For Work In Restricted Working Space, Add	2,191.03 6,894.59 -303.73 49.84	110.82
22 11 16 00-0052 Galvanized Malleable Iron Reducing 90 Degree Elbows (22 11 16 00-0013)		
22 11 16 00-0053 EA 3/4" x 1/2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow For ASTM 120, Deduct For Work In Restricted Working Space, Add	55.24 -2.31 11.95	26.51
22 11 16 00-0054 EA 1" x 3/4", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow For ASTM 120, Deduct For Work In Restricted Working Space, Add	64.29 -2.96 13.36	29.74
22 11 16 00-0055 EA 1" x 1/2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow For ASTM 120, Deduct For Work In Restricted Working Space, Add	63.25 -3.14 12.69	28.20
22 11 16 00-0056 EA 1-1/4" x 1", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow For ASTM 120, Deduct For Work In Restricted Working Space, Add	83.23 -4.97 15.03	33.42
22 11 16 00-0057 EA 1-1/4" x 3/4", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow For ASTM 120, Deduct For Work In Restricted Working Space, Add	87.44 -5.97 14.29	31.72
22 11 16 00-0058 EA 1-1/4" x 1/2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow For ASTM 120, Deduct For Work In Restricted Working Space, Add	87.57 -6.33 13.62	30.31
22 11 16 00-0059 EA 1-1/2" x 1-1/4", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow For ASTM 120, Deduct For Work In Restricted Working Space, Add	109.55 -7.94 16.98	37.78
22 11 16 00-0060 EA 1-1/2" x 1", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow For ASTM 120, Deduct For Work In Restricted Working Space, Add	106.45 -7.94 16.05	35.67
22 11 16 00-0061 EA 1-1/2" x 3/4", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow For ASTM 120, Deduct For Work In Restricted Working Space, Add	103.99 -7.94 15.31	33.98
22 11 16 00-0062 EA 2" x 1-1/2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow For ASTM 120, Deduct For Work In Restricted Working Space, Add	129.97 -9.28 20.43	45.39
22 11 16 00-0063 EA 2" x 1-1/4", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow For ASTM 120, Deduct For Work In Restricted Working Space, Add	135.62 -10.64 19.41	43.14
22 11 16 00-0064 EA 2" x 1", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow For ASTM 120, Deduct For Work In Restricted Working Space, Add	135.18 -11.04 18.48	41.03
22 11 16 00-0065 EA 2" x 3/4", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow For ASTM 120, Deduct For Work In Restricted Working Space, Add	114.97 -8.37 17.74	39.48
22 11 16 00-0066 EA 2-1/2" x 2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow For ASTM 120, Deduct For Work In Restricted Working Space, Add	304.20 -31.46 28.35	63.02
22 11 16 00-0067 EA 2-1/2" x 1-1/2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow For ASTM 120, Deduct For Work In Restricted Working Space, Add	320.02 -35.04 25.92	57.66
22 11 16 00-0068 EA 3" x 2-1/2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow For ASTM 120, Deduct For Work In Restricted Working Space, Add	511.72 -57.17 39.18	87.12
22 11 16 00-0069 EA 3" x 2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow For ASTM 120, Deduct For Work In Restricted Working Space, Add	443.33 -49.65 33.69	74.87
22 11 16 00-0070 EA 4" x 3", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow For ASTM 120, Deduct For Work In Restricted Working Space, Add	1,001.07 -129.37 41.58	92.43
22 11 16 00-0071 Galvanized Malleable Iron 45 Degree Elbow (22 11 16 00-0013)		
22 11 16 00-0072 EA 1/2", 150 LB, Galvanized Malleable Iron 45 Degree Elbow For 300 LB Rating, Add For ASTM 120, Deduct For Work In Restricted Working Space, Add	45.70 29.80 -1.22 11.28	25.10
22 11 16 00-0073 EA 3/4", 150 LB, Galvanized Malleable Iron 45 Degree Elbow For 300 LB Rating, Add For ASTM 120, Deduct For Work In Restricted Working Space, Add	53.73 42.13 -1.75 12.62	28.06
22 11 16 00-0074 EA 1", 150 LB, Galvanized Malleable Iron 45 Degree Elbow For 300 LB Rating, Add For ASTM 120, Deduct For Work In Restricted Working Space, Add	60.14 47.53 -1.97 14.10	31.29
22 11 16 00-0075 EA 1-1/4", 150 LB, Galvanized Malleable Iron 45 Degree Elbow For 300 LB Rating, Add For ASTM 120, Deduct For Work In Restricted Working Space, Add	77.78 86.73 -3.69 15.96	35.53
22 11 16 00-0076 EA 1-1/2", 150 LB, Galvanized Malleable Iron 45 Degree Elbow For 300 LB Rating, Add For ASTM 120, Deduct For Work In Restricted Working Space, Add	88.85 101.72 -4.33 18.00	40.04



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0077 EA 2", 150 LB, Galvanized Malleable Iron 45 Degree Elbow	118.90	50.89
<i>For 300 LB Rating, Add</i>	149.75	
<i>For ASTM 120, Deduct</i>	-6.41	
<i>For Work In Restricted Working Space, Add</i>	22.86	
22 11 16 00-0078 EA 2-1/2", 150 LB, Galvanized Malleable Iron 45 Degree Elbow	261.36	75.29
<i>For 300 LB Rating, Add</i>	511.91	
<i>For ASTM 120, Deduct</i>	-22.29	
<i>For Work In Restricted Working Space, Add</i>	33.84	
22 11 16 00-0079 EA 3", 150 LB, Galvanized Malleable Iron 45 Degree Elbow	364.48	98.97
<i>For 300 LB Rating, Add</i>	743.58	
<i>For ASTM 120, Deduct</i>	-32.41	
<i>For Work In Restricted Working Space, Add</i>	44.52	
22 11 16 00-0080 EA 4", 150 LB, Galvanized Malleable Iron 45 Degree Elbow	507.98	97.18
<i>For 300 LB Rating, Add</i>	1,240.39	
<i>For ASTM 120, Deduct</i>	-54.34	
<i>For Work In Restricted Working Space, Add</i>	43.72	
22 11 16 00-0081 EA 5", 150 LB, Galvanized Malleable Iron 45 Degree Elbow	1,615.85	101.43
<i>For 300 LB Rating, Add</i>	4,985.98	
<i>For ASTM 120, Deduct</i>	-219.57	
<i>For Work In Restricted Working Space, Add</i>	45.62	
22 11 16 00-0082 EA 6", 150 LB, Galvanized Malleable Iron 45 Degree Elbow	1,923.95	106.05
<i>For 300 LB Rating, Add</i>	6,010.44	
<i>For ASTM 120, Deduct</i>	-264.75	
<i>For Work In Restricted Working Space, Add</i>	47.69	
22 11 16 00-0083 EA 8", 150 LB, Galvanized Malleable Iron 45 Degree Elbow	2,292.42	110.82
<i>For 300 LB Rating, Add</i>	7,239.32	
<i>For ASTM 120, Deduct</i>	-318.94	
<i>For Work In Restricted Working Space, Add</i>	49.84	
22 11 16 00-0084 Galvanized Malleable Iron Tees (22 11 16 00-0013)		
22 11 16 00-0085 EA 1/2", 150 LB, Galvanized Malleable Iron Tee	55.90	31.29
<i>For 300 LB Rating, Add</i>	33.11	
<i>For ASTM 120, Deduct</i>	-1.34	
<i>For Work In Restricted Working Space, Add</i>	14.10	
22 11 16 00-0086 EA 3/4", 150 LB, Galvanized Malleable Iron Tee	68.92	36.23
<i>For 300 LB Rating, Add</i>	53.23	
<i>For ASTM 120, Deduct</i>	-2.21	
<i>For Work In Restricted Working Space, Add</i>	16.27	
22 11 16 00-0087 EA 1", 150 LB, Galvanized Malleable Iron Tee	87.85	42.72
<i>For 300 LB Rating, Add</i>	84.63	
<i>For ASTM 120, Deduct</i>	-3.56	
<i>For Work In Restricted Working Space, Add</i>	19.23	
22 11 16 00-0088 EA 1-1/4", 150 LB, Galvanized Malleable Iron Tee	113.91	50.89
<i>For 300 LB Rating, Add</i>	132.79	
<i>For ASTM 120, Deduct</i>	-5.66	
<i>For Work In Restricted Working Space, Add</i>	22.86	
22 11 16 00-0089 EA 1-1/2", 150 LB, Galvanized Malleable Iron Tee	137.82	60.63
<i>For 300 LB Rating, Add</i>	164.82	
<i>For ASTM 120, Deduct</i>	-7.03	
<i>For Work In Restricted Working Space, Add</i>	27.29	
22 11 16 00-0090 EA 2", 150 LB, Galvanized Malleable Iron Tee	188.98	75.29
<i>For 300 LB Rating, Add</i>	265.81	
<i>For ASTM 120, Deduct</i>	-11.43	
<i>For Work In Restricted Working Space, Add</i>	33.84	
22 11 16 00-0091 EA 2-1/2", 150 LB, Galvanized Malleable Iron Tee	337.09	81.77
<i>For 300 LB Rating, Add</i>	736.66	
<i>For ASTM 120, Deduct</i>	-32.18	
<i>For Work In Restricted Working Space, Add</i>	36.78	
22 11 16 00-0092 EA 3", 150 LB, Galvanized Malleable Iron Tee	399.94	98.97
<i>For 300 LB Rating, Add</i>	864.14	
<i>For ASTM 120, Deduct</i>	-37.73	
<i>For Work In Restricted Working Space, Add</i>	44.52	
22 11 16 00-0093 EA 4", 150 LB, Galvanized Malleable Iron Tee	779.15	122.79
<i>For 300 LB Rating, Add</i>	2,034.28	
<i>For ASTM 120, Deduct</i>	-89.26	
<i>For Work In Restricted Working Space, Add</i>	55.22	
22 11 16 00-0094 EA 5", 150 LB, Galvanized Malleable Iron Tee	2,089.13	145.77
<i>For 300 LB Rating, Add</i>	6,372.92	
<i>For ASTM 120, Deduct</i>	-280.58	
<i>For Work In Restricted Working Space, Add</i>	65.58	
22 11 16 00-0095 EA 6", 150 LB, Galvanized Malleable Iron Tee	2,371.45	166.63
<i>For 300 LB Rating, Add</i>	7,228.50	
<i>For ASTM 120, Deduct</i>	-318.24	
<i>For Work In Restricted Working Space, Add</i>	74.95	
22 11 16 00-0096 EA 8", 150 LB, Galvanized Malleable Iron Tee	2,820.67	197.86
<i>For 300 LB Rating, Add</i>	8,588.95	
<i>For ASTM 120, Deduct</i>	-378.13	
<i>For Work In Restricted Working Space, Add</i>	89.94	
22 11 16 00-0097 Galvanized Malleable Iron Reducing Tee (22 11 16 00-0013)		

22	Plumbing
22 10	Plumbing Piping
22 11	Facility Water Distribution



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0098 EA 1/2", 150 LB, Galvanized Malleable Iron Reducing Tee.....	67.70	31.29
For 300 LB Rating, Add	73.23	
For ASTM 120, Deduct	-3.11	
For Work In Restricted Working Space, Add	14.10	
22 11 16 00-0099 EA 3/4", 150 LB, Galvanized Malleable Iron Reducing Tee.....	74.65	36.23
For 300 LB Rating, Add	72.72	
For ASTM 120, Deduct	-3.06	
For Work In Restricted Working Space, Add	16.27	
22 11 16 00-0100 EA 1", 150 LB, Galvanized Malleable Iron Reducing Tee.....	92.80	42.72
For 300 LB Rating, Add	101.46	
For ASTM 120, Deduct	-4.31	
For Work In Restricted Working Space, Add	19.23	
22 11 16 00-0101 EA 1-1/4", 150 LB, Galvanized Malleable Iron Reducing Tee.....	120.71	50.89
For 300 LB Rating, Add	155.91	
For ASTM 120, Deduct	-6.68	
For Work In Restricted Working Space, Add	22.86	
22 11 16 00-0102 EA 1-1/2", 150 LB, Galvanized Malleable Iron Reducing Tee.....	145.93	60.63
For 300 LB Rating, Add	192.39	
For ASTM 120, Deduct	-8.25	
For Work In Restricted Working Space, Add	27.29	
22 11 16 00-0103 EA 2", 150 LB, Galvanized Malleable Iron Reducing Tee.....	193.06	75.29
For 300 LB Rating, Add	279.69	
For ASTM 120, Deduct	-12.04	
For Work In Restricted Working Space, Add	33.84	
22 11 16 00-0104 EA 2-1/2", 150 LB, Galvanized Malleable Iron Reducing Tee.....	406.49	82.05
For 300 LB Rating, Add	971.31	
For ASTM 120, Deduct	-42.53	
For Work In Restricted Working Space, Add	36.89	
22 11 16 00-0105 EA 3", 150 LB, Galvanized Malleable Iron Reducing Tee.....	518.44	100.52
For 300 LB Rating, Add	1,259.19	
For ASTM 120, Deduct	-55.15	
For Work In Restricted Working Space, Add	45.23	
22 11 16 00-0106 EA 4", 150 LB, Galvanized Malleable Iron Reducing Tee.....	1,249.95	122.79
For 300 LB Rating, Add	3,635.00	
For ASTM 120, Deduct	-159.88	
For Work In Restricted Working Space, Add	55.22	
22 11 16 00-0107 EA 5", 150 LB, Galvanized Malleable Iron Reducing Tee.....	2,808.55	145.77
For 300 LB Rating, Add	8,818.95	
For ASTM 120, Deduct	-388.49	
For Work In Restricted Working Space, Add	65.58	
22 11 16 00-0108 EA 6", 150 LB, Galvanized Malleable Iron Reducing Tee.....	3,053.95	166.63
For 300 LB Rating, Add	9,549.00	
For ASTM 120, Deduct	-420.62	
For Work In Restricted Working Space, Add	74.95	
22 11 16 00-0109 EA 8", 150 LB, Galvanized Malleable Iron Reducing Tee.....	3,668.36	191.35
For 300 LB Rating, Add	11,512.81	
For ASTM 120, Deduct	-507.16	
For Work In Restricted Working Space, Add	86.19	
22 11 16 00-0110 Galvanized Malleable Iron Couplings (22 11 16 00-0013)		
22 11 16 00-0111 EA 1/2", 150 LB, Galvanized Malleable Iron Coupling.....	43.89	25.10
For 300 LB Rating, Add	23.64	
For ASTM 120, Deduct	-0.94	
For Work In Restricted Working Space, Add	11.28	
22 11 16 00-0112 EA 3/4", 150 LB, Galvanized Malleable Iron Coupling.....	49.33	28.06
For 300 LB Rating, Add	27.17	
For ASTM 120, Deduct	-1.09	
For Work In Restricted Working Space, Add	12.62	
22 11 16 00-0113 EA 1", 150 LB, Galvanized Malleable Iron Coupling.....	58.87	31.29
For 300 LB Rating, Add	43.21	
For ASTM 120, Deduct	-1.78	
For Work In Restricted Working Space, Add	14.10	
22 11 16 00-0114 EA 1-1/4", 150 LB, Galvanized Malleable Iron Coupling.....	69.96	35.53
For 300 LB Rating, Add	60.14	
For ASTM 120, Deduct	-2.51	
For Work In Restricted Working Space, Add	15.96	
22 11 16 00-0115 EA 1-1/2", 150 LB, Galvanized Malleable Iron Coupling.....	79.03	40.04
For 300 LB Rating, Add	68.34	
For ASTM 120, Deduct	-2.86	
For Work In Restricted Working Space, Add	18.00	
22 11 16 00-0116 EA 2", 150 LB, Galvanized Malleable Iron Coupling.....	104.04	50.89
For 300 LB Rating, Add	99.23	
For ASTM 120, Deduct	-4.18	
For Work In Restricted Working Space, Add	22.86	
22 11 16 00-0117 EA 2-1/2", 150 LB, Galvanized Malleable Iron Coupling.....	198.01	75.29
For 300 LB Rating, Add	296.52	
For ASTM 120, Deduct	-12.78	
For Work In Restricted Working Space, Add	33.84	
22 11 16 00-0118 EA 3", 150 LB, Galvanized Malleable Iron Coupling.....	262.30	98.97
For 300 LB Rating, Add	396.16	
For ASTM 120, Deduct	-17.09	
For Work In Restricted Working Space, Add	44.52	



	Plumbing	22
	Plumbing Piping	22 10
	Facility Water Distribution	22 11

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0119	EA		4", 150 LB, Galvanized Malleable Iron Coupling.....	387.63	97.18
			<i>For 300 LB Rating, Add</i>	831.20	
			<i>For ASTM 120, Deduct</i>	-36.29	
			<i>For Work In Restricted Working Space, Add</i>	43.72	
22 11 16 00-0120	EA		5", 150 LB, Galvanized Malleable Iron Coupling.....	833.21	101.43
			<i>For 300 LB Rating, Add</i>	2,325.00	
			<i>For ASTM 120, Deduct</i>	-102.17	
			<i>For Work In Restricted Working Space, Add</i>	45.62	
22 11 16 00-0121	EA		6", 150 LB, Galvanized Malleable Iron Coupling.....	934.98	106.05
			<i>For 300 LB Rating, Add</i>	2,647.94	
			<i>For ASTM 120, Deduct</i>	-116.40	
			<i>For Work In Restricted Working Space, Add</i>	47.69	
22 11 16 00-0122	EA		8", 150 LB, Galvanized Malleable Iron Coupling.....	1,101.38	110.82
			<i>For 300 LB Rating, Add</i>	3,189.78	
			<i>For ASTM 120, Deduct</i>	-140.29	
			<i>For Work In Restricted Working Space, Add</i>	49.84	
22 11 16 00-0123 Galvanized Malleable Iron Reducing Couplings (22 11 16 00-0013)					
22 11 16 00-0124	EA		1 1/2", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	45.23	25.10
			<i>For 300 LB Rating, Add</i>	28.20	
			<i>For ASTM 120, Deduct</i>	-1.14	
			<i>For Work In Restricted Working Space, Add</i>	11.28	
22 11 16 00-0125	EA		3/4", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	50.24	28.06
			<i>For 300 LB Rating, Add</i>	30.27	
			<i>For ASTM 120, Deduct</i>	-1.22	
			<i>For Work In Restricted Working Space, Add</i>	12.62	
22 11 16 00-0126	EA		1", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	60.59	31.29
			<i>For 300 LB Rating, Add</i>	49.06	
			<i>For ASTM 120, Deduct</i>	-2.04	
			<i>For Work In Restricted Working Space, Add</i>	14.10	
22 11 16 00-0127	EA		1-1/4", 150 LB, Galvanized Malleable Iron Reducing Coupling	70.79	35.53
			<i>For 300 LB Rating, Add</i>	62.96	
			<i>For ASTM 120, Deduct</i>	-2.64	
			<i>For Work In Restricted Working Space, Add</i>	15.96	
22 11 16 00-0128	EA		1-1/2", 150 LB, Galvanized Malleable Iron Reducing Coupling	82.66	40.04
			<i>For 300 LB Rating, Add</i>	80.68	
			<i>For ASTM 120, Deduct</i>	-3.40	
			<i>For Work In Restricted Working Space, Add</i>	18.00	
22 11 16 00-0129	EA		2", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	107.13	50.89
			<i>For 300 LB Rating, Add</i>	109.73	
			<i>For ASTM 120, Deduct</i>	-4.64	
			<i>For Work In Restricted Working Space, Add</i>	22.86	
22 11 16 00-0130	EA		2-1/2", 150 LB, Galvanized Malleable Iron Reducing Coupling	199.09	75.29
			<i>For 300 LB Rating, Add</i>	300.19	
			<i>For ASTM 120, Deduct</i>	-12.95	
			<i>For Work In Restricted Working Space, Add</i>	33.84	
22 11 16 00-0131	EA		3", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	259.07	98.97
			<i>For 300 LB Rating, Add</i>	385.18	
			<i>For ASTM 120, Deduct</i>	-16.60	
			<i>For Work In Restricted Working Space, Add</i>	44.52	
22 11 16 00-0132	EA		4", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	393.86	97.18
			<i>For 300 LB Rating, Add</i>	852.39	
			<i>For ASTM 120, Deduct</i>	-37.22	
			<i>For Work In Restricted Working Space, Add</i>	43.72	
22 11 16 00-0133	EA		5", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	869.06	101.43
			<i>For 300 LB Rating, Add</i>	2,446.89	
			<i>For ASTM 120, Deduct</i>	-107.55	
			<i>For Work In Restricted Working Space, Add</i>	45.62	
22 11 16 00-0134	EA		6", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	975.82	106.05
			<i>For 300 LB Rating, Add</i>	2,786.79	
			<i>For ASTM 120, Deduct</i>	-122.53	
			<i>For Work In Restricted Working Space, Add</i>	47.69	
22 11 16 00-0135	EA		8", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	1,150.97	110.82
			<i>For 300 LB Rating, Add</i>	3,358.39	
			<i>For ASTM 120, Deduct</i>	-147.72	
			<i>For Work In Restricted Working Space, Add</i>	49.84	
22 11 16 00-0136 Galvanized Malleable Iron Caps (22 11 16 00-0013)					
22 11 16 00-0137	EA		1/2", 150 LB, Galvanized Malleable Iron Cap	19.79	11.70
			<i>For 300 LB Rating, Add</i>	8.44	
			<i>For ASTM 120, Deduct</i>	-0.33	
			<i>For Work In Restricted Working Space, Add</i>	5.29	
22 11 16 00-0138	EA		3/4", 150 LB, Galvanized Malleable Iron Cap	21.79	12.55
			<i>For 300 LB Rating, Add</i>	11.33	
			<i>For ASTM 120, Deduct</i>	-0.45	
			<i>For Work In Restricted Working Space, Add</i>	5.64	
22 11 16 00-0139	EA		1", 150 LB, Galvanized Malleable Iron Cap	25.41	14.52
			<i>For 300 LB Rating, Add</i>	13.95	
			<i>For ASTM 120, Deduct</i>	-0.56	
			<i>For Work In Restricted Working Space, Add</i>	6.51	

22 Plumbing
22 10 Plumbing Piping
22 11 Facility Water Distribution



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0140 EA 1-1/4", 150 LB, Galvanized Malleable Iron Cap <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	27.63 17.99 -0.73 6.82	15.22
22 11 16 00-0141 EA 1-1/2", 150 LB, Galvanized Malleable Iron Cap <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	27.32 16.94 -0.69 6.82	15.22
22 11 16 00-0142 EA 2", 150 LB, Galvanized Malleable Iron Cap <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	40.13 35.17 -1.47 9.10	20.16
22 11 16 00-0143 EA 2-1/2", 150 LB, Galvanized Malleable Iron Cap <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	59.61 77.09 -3.30 11.28	25.10
22 11 16 00-0144 EA 3", 150 LB, Galvanized Malleable Iron Cap <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	76.82 109.28 -4.70 13.64	30.31
22 11 16 00-0145 EA 4", 150 LB, Galvanized Malleable Iron Cap <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	108.56 202.20 -8.79 14.99	33.35
22 11 16 00-0146 EA 5", 150 LB, Galvanized Malleable Iron Cap <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	256.96 665.05 -29.18 18.74	41.72
22 11 16 00-0147 EA 6", 150 LB, Galvanized Malleable Iron Cap <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	319.56 837.94 -36.77 22.33	49.59
22 11 16 00-0148 EA 8", 150 LB, Galvanized Malleable Iron Cap <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	400.76 1,085.13 -47.65 24.92	55.41
22 11 16 00-0149 Galvanized Malleable Iron FIP Threaded, Unions (22 11 16 00-0013)		
22 11 16 00-0150 EA 1/2", 150 LB, Galvanized Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	77.68 14.10	31.29
22 11 16 00-0151 EA 3/4", 150 LB, Galvanized Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	89.49 16.27	36.23
22 11 16 00-0152 EA 1", 150 LB, Galvanized Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	110.27 19.23	42.72
22 11 16 00-0153 EA 1-1/4", 150 LB, Galvanized Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	142.96 22.86	50.89
22 11 16 00-0154 EA 1-1/2", 150 LB, Galvanized Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	171.84 27.29	60.63
22 11 16 00-0155 EA 2", 150 LB, Galvanized Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	205.78 33.84	75.29
22 11 16 00-0156 EA 2-1/2", 150 LB, Galvanized Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	489.52 49.95	110.96
22 11 16 00-0157 EA 3", 150 LB, Galvanized Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	671.17 65.72	145.92
22 11 16 00-0158 EA 1/2", 250 LB, Galvanized Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	109.39 14.10	31.29
22 11 16 00-0159 EA 3/4", 250 LB, Galvanized Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	110.92 16.27	36.23
22 11 16 00-0160 EA 1", 250 LB, Galvanized Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	134.37 19.22	42.72
22 11 16 00-0161 EA 1-1/4", 250 LB, Galvanized Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	182.65 22.86	50.89
22 11 16 00-0162 EA 1-1/2", 250 LB, Galvanized Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	213.51 27.29	60.63
22 11 16 00-0163 EA 2", 250 LB, Galvanized Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	285.86 33.84	75.29
22 11 16 00-0164 EA 2-1/2", 250 LB, Galvanized Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	621.77 49.95	110.96
22 11 16 00-0165 EA 3", 250 LB, Galvanized Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	917.59 65.72	145.92
22 11 16 00-0166 EA 4", 250 LB, Galvanized Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	1,310.86 64.54	143.41
22 11 16 00-0167 EA 1/2", 300 LB, Galvanized Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	118.09 14.10	31.29
22 11 16 00-0168 EA 3/4", 300 LB, Galvanized Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	131.32 16.27	36.23
22 11 16 00-0169 EA 1", 300 LB, Galvanized Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	166.36 19.22	42.72
22 11 16 00-0170 EA 1-1/4", 300 LB, Galvanized Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	218.82 22.86	50.89
22 11 16 00-0171 EA 1-1/2", 300 LB, Galvanized Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	262.69 27.29	60.63
22 11 16 00-0172 EA 2", 300 LB, Galvanized Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	318.91 33.84	75.29



	Plumbing	22
	Plumbing Piping	22 10
	Facility Water Distribution	22 11

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0173 EA 2-1/2", 300 LB, Galvanized Malleable Iron Union	741.46	110.96
For Work In Restricted Working Space, Add	49.95	
22 11 16 00-0174 EA 3", 300 LB, Galvanized Malleable Iron Union	1,191.48	145.92
For Work In Restricted Working Space, Add	65.72	
22 11 16 00-0175 EA 4", 300 LB, Galvanized Malleable Iron Union	2,653.95	143.41
For Work In Restricted Working Space, Add	64.54	
22 11 16 00-0176 Galvanized Steel Nipples (22 11 16 00-0013)		
Note: ASTM A-53.		
22 11 16 00-0177 EA 3/8" x Close, Schedule 40 Galvanized Steel Nipple	22.70	13.39
For Schedule 80 Nipples, Add	2.92	
For ASTM 120, Deduct	-0.38	
For Work In Restricted Working Space, Add	6.04	
22 11 16 00-0178 EA 1/2" x Close, Schedule 40 Galvanized Steel Nipple	22.21	13.39
For Schedule 80 Nipples, Add	2.36	
For ASTM 120, Deduct	-0.31	
For Work In Restricted Working Space, Add	6.04	
22 11 16 00-0179 EA 3/4" x Close, Schedule 40 Galvanized Steel Nipple	22.65	13.39
For Schedule 80 Nipples, Add	2.86	
For ASTM 120, Deduct	-0.38	
For Work In Restricted Working Space, Add	6.04	
22 11 16 00-0180 EA 1" x Close, Schedule 40 Galvanized Steel Nipple	25.14	14.52
For Schedule 80 Nipples, Add	3.93	
For ASTM 120, Deduct	-0.52	
For Work In Restricted Working Space, Add	6.51	
22 11 16 00-0181 EA 1-1/4" x Close, Schedule 40 Galvanized Steel Nipple	28.12	15.65
For Schedule 80 Nipples, Add	5.27	
For ASTM 120, Deduct	-0.69	
For Work In Restricted Working Space, Add	7.05	
22 11 16 00-0182 EA 1-1/2" x Close, Schedule 40 Galvanized Steel Nipple	28.93	15.65
For Schedule 80 Nipples, Add	6.19	
For ASTM 120, Deduct	-0.81	
For Work In Restricted Working Space, Add	7.05	
22 11 16 00-0183 EA 2" x Close, Schedule 40 Galvanized Steel Nipple	37.97	20.16
For Schedule 80 Nipples, Add	8.72	
For ASTM 120, Deduct	-1.15	
For Work In Restricted Working Space, Add	9.10	
22 11 16 00-0184 EA 2-1/2" x Close, Schedule 40 Galvanized Steel Nipple	60.37	25.10
For Schedule 80 Nipples, Add	25.96	
For ASTM 120, Deduct	-3.42	
For Work In Restricted Working Space, Add	11.28	
22 11 16 00-0185 EA 3" x Close, Schedule 40 Galvanized Steel Nipple	72.76	30.31
For Schedule 80 Nipples, Add	31.10	
For ASTM 120, Deduct	-4.09	
For Work In Restricted Working Space, Add	13.64	
22 11 16 00-0186 EA 4" x Close, Schedule 40 Galvanized Steel Nipple	90.86	33.35
For Schedule 80 Nipples, Add	46.61	
For ASTM 120, Deduct	-6.13	
For Work In Restricted Working Space, Add	14.99	
22 11 16 00-0187 EA 3/8" x 1-1/2" Long, Schedule 40 Galvanized Steel Nipple	23.08	13.39
For Schedule 80 Nipples, Add	3.35	
For ASTM 120, Deduct	-0.44	
For Work In Restricted Working Space, Add	6.04	
22 11 16 00-0188 EA 1/2" x 1-1/2" Long, Schedule 40 Galvanized Steel Nipple	22.32	13.39
For Schedule 80 Nipples, Add	2.49	
For ASTM 120, Deduct	-0.33	
For Work In Restricted Working Space, Add	6.04	
22 11 16 00-0189 EA 3/4" x 1-1/2" Long, Schedule 40 Galvanized Steel Nipple	22.87	13.39
For Schedule 80 Nipples, Add	3.11	
For ASTM 120, Deduct	-0.41	
For Work In Restricted Working Space, Add	6.04	
22 11 16 00-0190 EA 3/8" x 2" Long, Schedule 40 Galvanized Steel Nipple	23.08	13.39
For Schedule 80 Nipples, Add	3.35	
For ASTM 120, Deduct	-0.44	
For Work In Restricted Working Space, Add	6.04	
22 11 16 00-0191 EA 1/2" x 2" Long, Schedule 40 Galvanized Steel Nipple	22.32	13.39
For Schedule 80 Nipples, Add	2.49	
For ASTM 120, Deduct	-0.33	
For Work In Restricted Working Space, Add	6.04	
22 11 16 00-0192 EA 3/4" x 2" Long, Schedule 40 Galvanized Steel Nipple	22.87	13.39
For Schedule 80 Nipples, Add	3.11	
For ASTM 120, Deduct	-0.41	
For Work In Restricted Working Space, Add	6.04	
22 11 16 00-0193 EA 1" x 2" Long, Schedule 40 Galvanized Steel Nipple	25.76	14.52
For Schedule 80 Nipples, Add	4.64	
For ASTM 120, Deduct	-0.61	
For Work In Restricted Working Space, Add	6.51	
22 11 16 00-0194 EA 1-1/4" x 2" Long, Schedule 40 Galvanized Steel Nipple	28.46	15.65
For Schedule 80 Nipples, Add	5.65	
For ASTM 120, Deduct	-0.74	
For Work In Restricted Working Space, Add	7.05	
22 11 16 00-0195 EA 1-1/2" x 2" Long, Schedule 40 Galvanized Steel Nipple	29.33	15.65
For Schedule 80 Nipples, Add	6.65	
For ASTM 120, Deduct	-0.87	
For Work In Restricted Working Space, Add	7.05	

22	Plumbing
22 10	Plumbing Piping
22 11	Facility Water Distribution



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0196 EA 3/8" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple	24.05	13.39
For Schedule 80 Nipples, Add	4.46	
For ASTM 120, Deduct	-0.59	
For Work In Restricted Working Space, Add	6.04	
22 11 16 00-0197 EA 1/2" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple	22.70	13.39
For Schedule 80 Nipples, Add	2.92	
For ASTM 120, Deduct	-0.38	
For Work In Restricted Working Space, Add	6.04	
22 11 16 00-0198 EA 3/4" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple	23.16	13.39
For Schedule 80 Nipples, Add	3.44	
For ASTM 120, Deduct	-0.45	
For Work In Restricted Working Space, Add	6.04	
22 11 16 00-0199 EA 1" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple	26.09	14.52
For Schedule 80 Nipples, Add	5.02	
For ASTM 120, Deduct	-0.66	
For Work In Restricted Working Space, Add	6.51	
22 11 16 00-0200 EA 1-1/4" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple	28.95	15.65
For Schedule 80 Nipples, Add	6.21	
For ASTM 120, Deduct	-0.82	
For Work In Restricted Working Space, Add	7.05	
22 11 16 00-0201 EA 1-1/2" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple	29.99	15.65
For Schedule 80 Nipples, Add	7.40	
For ASTM 120, Deduct	-0.97	
For Work In Restricted Working Space, Add	7.05	
22 11 16 00-0202 EA 2" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple	38.92	20.16
For Schedule 80 Nipples, Add	9.80	
For ASTM 120, Deduct	-1.29	
For Work In Restricted Working Space, Add	9.10	
22 11 16 00-0203 EA 3/8" x 3" Long, Schedule 40 Galvanized Steel Nipple	24.05	13.39
For Schedule 80 Nipples, Add	4.46	
For ASTM 120, Deduct	-0.59	
For Work In Restricted Working Space, Add	6.04	
22 11 16 00-0204 EA 1/2" x 3" Long, Schedule 40 Galvanized Steel Nipple	22.70	13.39
For Schedule 80 Nipples, Add	2.92	
For ASTM 120, Deduct	-0.38	
For Work In Restricted Working Space, Add	6.04	
22 11 16 00-0205 EA 3/4" x 3" Long, Schedule 40 Galvanized Steel Nipple	23.16	13.39
For Schedule 80 Nipples, Add	3.44	
For ASTM 120, Deduct	-0.45	
For Work In Restricted Working Space, Add	6.04	
22 11 16 00-0206 EA 1" x 3" Long, Schedule 40 Galvanized Steel Nipple	26.09	14.52
For Schedule 80 Nipples, Add	5.02	
For ASTM 120, Deduct	-0.66	
For Work In Restricted Working Space, Add	6.51	
22 11 16 00-0207 EA 1-1/4" x 3" Long, Schedule 40 Galvanized Steel Nipple	28.95	15.65
For Schedule 80 Nipples, Add	6.21	
For ASTM 120, Deduct	-0.82	
For Work In Restricted Working Space, Add	7.05	
22 11 16 00-0208 EA 1-1/2" x 3" Long, Schedule 40 Galvanized Steel Nipple	29.99	15.65
For Schedule 80 Nipples, Add	7.40	
For ASTM 120, Deduct	-0.97	
For Work In Restricted Working Space, Add	7.05	
22 11 16 00-0209 EA 2" x 3" Long, Schedule 40 Galvanized Steel Nipple	38.92	20.16
For Schedule 80 Nipples, Add	9.80	
For ASTM 120, Deduct	-1.29	
For Work In Restricted Working Space, Add	9.10	
22 11 16 00-0210 EA 2-1/2" x 3" Long, Schedule 40 Galvanized Steel Nipple	61.24	25.10
For Schedule 80 Nipples, Add	26.95	
For ASTM 120, Deduct	-3.55	
For Work In Restricted Working Space, Add	11.28	
22 11 16 00-0211 EA 3" x 3" Long, Schedule 40 Galvanized Steel Nipple	76.52	30.31
For Schedule 80 Nipples, Add	35.39	
For ASTM 120, Deduct	-4.66	
For Work In Restricted Working Space, Add	13.64	
22 11 16 00-0212 EA 3/8" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple	24.79	13.39
For Schedule 80 Nipples, Add	5.30	
For ASTM 120, Deduct	-0.70	
For Work In Restricted Working Space, Add	6.04	
22 11 16 00-0213 EA 1/2" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple	23.30	13.39
For Schedule 80 Nipples, Add	3.60	
For ASTM 120, Deduct	-0.47	
For Work In Restricted Working Space, Add	6.04	
22 11 16 00-0214 EA 3/4" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple	24.05	13.39
For Schedule 80 Nipples, Add	4.46	
For ASTM 120, Deduct	-0.59	
For Work In Restricted Working Space, Add	6.04	
22 11 16 00-0215 EA 1" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple	26.98	14.52
For Schedule 80 Nipples, Add	6.03	
For ASTM 120, Deduct	-0.79	
For Work In Restricted Working Space, Add	6.51	
22 11 16 00-0216 EA 1-1/4" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple	29.99	15.65
For Schedule 80 Nipples, Add	7.40	
For ASTM 120, Deduct	-0.97	
For Work In Restricted Working Space, Add	7.05	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0217	EA		1-1/2" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	31.70 9.35 -1.23 7.05	15.65
22 11 16 00-0218	EA		2" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	40.77 11.91 -1.57 9.10	20.16
22 11 16 00-0219	EA		2-1/2" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	65.04 31.28 -4.12 11.28	25.10
22 11 16 00-0220	EA		3" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	81.90 41.52 -5.46 13.64	30.31
22 11 16 00-0221	EA		3/8" x 4" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	24.79 5.30 -0.70 6.04	13.39
22 11 16 00-0222	EA		1/2" x 4" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	23.30 3.60 -0.47 6.04	13.39
22 11 16 00-0223	EA		3/4" x 4" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	24.79 5.30 -0.70 6.04	13.39
22 11 16 00-0224	EA		1" x 4" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	26.98 6.03 -0.79 6.51	14.52
22 11 16 00-0225	EA		1-1/4" x 4" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	29.99 7.40 -0.97 7.05	15.65
22 11 16 00-0226	EA		1-1/2" x 4" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	31.70 9.35 -1.23 7.05	15.65
22 11 16 00-0227	EA		2" x 4" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	40.86 12.02 -1.58 9.10	20.16
22 11 16 00-0228	EA		2-1/2" x 4" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	65.04 31.28 -4.12 11.28	25.10
22 11 16 00-0229	EA		3" x 4" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	81.90 41.52 -5.46 13.64	30.31
22 11 16 00-0230	EA		4" x 4" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	98.86 55.73 -7.33 14.99	33.35
22 11 16 00-0231	EA		3/8" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	26.54 7.30 -0.96 6.04	13.39
22 11 16 00-0232	EA		1/2" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	23.94 4.33 -0.57 6.04	13.39
22 11 16 00-0233	EA		3/4" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	24.81 5.32 -0.70 6.04	13.39
22 11 16 00-0234	EA		1" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	28.18 7.40 -0.97 6.51	14.52
22 11 16 00-0235	EA		1-1/4" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	31.53 9.15 -1.20 7.05	15.65
22 11 16 00-0236	EA		1-1/2" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	33.42 11.31 -1.49 7.05	15.65
22 11 16 00-0237	EA		2" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	43.66 15.21 -2.00 9.10	20.16



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0238 EA 2-1/2" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple	68.20	25.10
For Schedule 80 Nipples, Add	34.88	
For ASTM 120, Deduct	-4.59	
For Work In Restricted Working Space, Add	11.28	
22 11 16 00-0239 EA 3" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple	87.93	30.31
For Schedule 80 Nipples, Add	48.39	
For ASTM 120, Deduct	-6.37	
For Work In Restricted Working Space, Add	13.64	
22 11 16 00-0240 EA 4" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple	104.80	33.35
For Schedule 80 Nipples, Add	62.51	
For ASTM 120, Deduct	-8.22	
For Work In Restricted Working Space, Add	14.99	
22 11 16 00-0241 EA 3/8" x 5" Long, Schedule 40 Galvanized Steel Nipple	26.54	13.39
For Schedule 80 Nipples, Add	7.30	
For ASTM 120, Deduct	-0.96	
For Work In Restricted Working Space, Add	6.04	
22 11 16 00-0242 EA 1/2" x 5" Long, Schedule 40 Galvanized Steel Nipple	23.94	13.39
For Schedule 80 Nipples, Add	4.33	
For ASTM 120, Deduct	-0.57	
For Work In Restricted Working Space, Add	6.04	
22 11 16 00-0243 EA 3/4" x 5" Long, Schedule 40 Galvanized Steel Nipple	24.81	13.39
For Schedule 80 Nipples, Add	5.32	
For ASTM 120, Deduct	-0.70	
For Work In Restricted Working Space, Add	6.04	
22 11 16 00-0244 EA 1" x 5" Long, Schedule 40 Galvanized Steel Nipple	28.18	14.52
For Schedule 80 Nipples, Add	7.40	
For ASTM 120, Deduct	-0.97	
For Work In Restricted Working Space, Add	6.51	
22 11 16 00-0245 EA 1-1/4" x 5" Long, Schedule 40 Galvanized Steel Nipple	31.53	15.65
For Schedule 80 Nipples, Add	9.15	
For ASTM 120, Deduct	-1.20	
For Work In Restricted Working Space, Add	7.05	
22 11 16 00-0246 EA 1-1/2" x 5" Long, Schedule 40 Galvanized Steel Nipple	33.42	15.65
For Schedule 80 Nipples, Add	11.31	
For ASTM 120, Deduct	-1.49	
For Work In Restricted Working Space, Add	7.05	
22 11 16 00-0247 EA 2" x 5" Long, Schedule 40 Galvanized Steel Nipple	43.66	20.16
For Schedule 80 Nipples, Add	15.21	
For ASTM 120, Deduct	-2.00	
For Work In Restricted Working Space, Add	9.10	
22 11 16 00-0248 EA 2-1/2" x 5" Long, Schedule 40 Galvanized Steel Nipple	68.20	25.10
For Schedule 80 Nipples, Add	34.88	
For ASTM 120, Deduct	-4.59	
For Work In Restricted Working Space, Add	11.28	
22 11 16 00-0249 EA 3" x 5" Long, Schedule 40 Galvanized Steel Nipple	87.93	30.31
For Schedule 80 Nipples, Add	48.39	
For ASTM 120, Deduct	-6.37	
For Work In Restricted Working Space, Add	13.64	
22 11 16 00-0250 EA 4" x 5" Long, Schedule 40 Galvanized Steel Nipple	104.80	33.35
For Schedule 80 Nipples, Add	62.51	
For ASTM 120, Deduct	-8.22	
For Work In Restricted Working Space, Add	14.99	
22 11 16 00-0251 EA 3/8" x 6" Long, Schedule 40 Galvanized Steel Nipple	27.26	13.39
For Schedule 80 Nipples, Add	8.12	
For ASTM 120, Deduct	-1.07	
For Work In Restricted Working Space, Add	6.04	
22 11 16 00-0252 EA 1/2" x 6" Long, Schedule 40 Galvanized Steel Nipple	24.45	13.39
For Schedule 80 Nipples, Add	4.91	
For ASTM 120, Deduct	-0.65	
For Work In Restricted Working Space, Add	6.04	
22 11 16 00-0253 EA 3/4" x 6" Long, Schedule 40 Galvanized Steel Nipple	25.74	13.39
For Schedule 80 Nipples, Add	6.38	
For ASTM 120, Deduct	-0.84	
For Work In Restricted Working Space, Add	6.04	
22 11 16 00-0254 EA 1" x 6" Long, Schedule 40 Galvanized Steel Nipple	29.05	14.52
For Schedule 80 Nipples, Add	8.39	
For ASTM 120, Deduct	-1.10	
For Work In Restricted Working Space, Add	6.51	
22 11 16 00-0255 EA 1-1/4" x 6" Long, Schedule 40 Galvanized Steel Nipple	32.82	15.65
For Schedule 80 Nipples, Add	10.62	
For ASTM 120, Deduct	-1.40	
For Work In Restricted Working Space, Add	7.05	
22 11 16 00-0256 EA 1-1/2" x 6" Long, Schedule 40 Galvanized Steel Nipple	34.66	15.65
For Schedule 80 Nipples, Add	12.72	
For ASTM 120, Deduct	-1.67	
For Work In Restricted Working Space, Add	7.05	
22 11 16 00-0257 EA 2" x 6" Long, Schedule 40 Galvanized Steel Nipple	45.82	20.16
For Schedule 80 Nipples, Add	17.67	
For ASTM 120, Deduct	-2.33	
For Work In Restricted Working Space, Add	9.10	
22 11 16 00-0258 EA 2-1/2" x 6" Long, Schedule 40 Galvanized Steel Nipple	71.22	25.10
For Schedule 80 Nipples, Add	38.33	
For ASTM 120, Deduct	-5.04	
For Work In Restricted Working Space, Add	11.28	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0259	EA		3" x 6" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	90.37 51.17 -6.73 13.64	30.31
22 11 16 00-0260	EA		4" x 6" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	110.58 69.10 -9.09 14.99	33.35
22 11 16 00-0261	EA		3/8" x 8" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	48.58 32.42 -4.27 6.04	13.39
22 11 16 00-0262	EA		1/2" x 8" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	27.74 8.66 -1.14 6.04	13.39
22 11 16 00-0263	EA		3/4" x 8" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	29.86 11.08 -1.46 6.04	13.39
22 11 16 00-0264	EA		1" x 8" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	34.01 14.04 -1.85 6.51	14.52
22 11 16 00-0265	EA		1-1/4" x 8" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	38.60 17.21 -2.27 7.05	15.65
22 11 16 00-0266	EA		1-1/2" x 8" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	40.82 19.74 -2.60 7.05	15.65
22 11 16 00-0267	EA		2" x 8" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	55.58 28.80 -3.79 9.10	20.16
22 11 16 00-0268	EA		2-1/2" x 8" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	80.87 49.33 -6.49 11.28	25.10
22 11 16 00-0269	EA		3" x 8" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	105.96 68.95 -9.07 13.64	30.31
22 11 16 00-0270	EA		4" x 8" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	122.30 82.46 -10.85 14.99	33.35
22 11 16 00-0271	EA		3/8" x 10" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	33.70 15.46 -2.03 6.04	13.39
22 11 16 00-0272	EA		1/2" x 10" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	29.17 10.29 -1.35 6.04	13.39
22 11 16 00-0273	EA		3/4" x 10" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	30.92 12.29 -1.62 6.04	13.39
22 11 16 00-0274	EA		1" x 10" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	35.76 16.04 -2.11 6.51	14.52
22 11 16 00-0275	EA		1-1/4" x 10" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	41.55 20.58 -2.71 7.05	15.65
22 11 16 00-0276	EA		1-1/2" x 10" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	43.69 23.02 -3.03 7.05	15.65
22 11 16 00-0277	EA		2" x 10" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	59.87 33.69 -4.43 9.10	20.16
22 11 16 00-0278	EA		2-1/2" x 10" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	86.92 56.22 -7.40 11.28	25.10
22 11 16 00-0279	EA		3" x 10" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	114.47 78.65 -10.35 13.64	30.31



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0280 EA 4" x 10" Long, Schedule 40 Galvanized Steel Nipple.....	133.80	33.35
For Schedule 80 Nipples, Add	95.57	
For ASTM 120, Deduct	-12.57	
For Work In Restricted Working Space, Add	14.99	
22 11 16 00-0281 EA 3/8" x 12" Long, Schedule 40 Galvanized Steel Nipple.....	35.17	13.39
For Schedule 80 Nipples, Add	17.13	
For ASTM 120, Deduct	-2.25	
For Work In Restricted Working Space, Add	6.04	
22 11 16 00-0282 EA 1/2" x 12" Long, Schedule 40 Galvanized Steel Nipple.....	30.41	13.39
For Schedule 80 Nipples, Add	11.71	
For ASTM 120, Deduct	-1.54	
For Work In Restricted Working Space, Add	6.04	
22 11 16 00-0283 EA 3/4" x 12" Long, Schedule 40 Galvanized Steel Nipple.....	32.24	13.39
For Schedule 80 Nipples, Add	13.79	
For ASTM 120, Deduct	-1.82	
For Work In Restricted Working Space, Add	6.04	
22 11 16 00-0284 EA 1" x 12" Long, Schedule 40 Galvanized Steel Nipple.....	38.08	14.52
For Schedule 80 Nipples, Add	18.68	
For ASTM 120, Deduct	-2.46	
For Work In Restricted Working Space, Add	6.51	
22 11 16 00-0285 EA 1-1/4" x 12" Long, Schedule 40 Galvanized Steel Nipple	45.18	15.65
For Schedule 80 Nipples, Add	24.72	
For ASTM 120, Deduct	-3.25	
For Work In Restricted Working Space, Add	7.05	
22 11 16 00-0286 EA 1-1/2" x 12" Long, Schedule 40 Galvanized Steel Nipple	46.60	15.65
For Schedule 80 Nipples, Add	26.33	
For ASTM 120, Deduct	-3.47	
For Work In Restricted Working Space, Add	7.05	
22 11 16 00-0287 EA 2" x 12" Long, Schedule 40 Galvanized Steel Nipple.....	64.23	20.16
For Schedule 80 Nipples, Add	38.66	
For ASTM 120, Deduct	-5.09	
For Work In Restricted Working Space, Add	9.10	
22 11 16 00-0288 EA 2-1/2" x 12" Long, Schedule 40 Galvanized Steel Nipple	92.79	25.10
For Schedule 80 Nipples, Add	62.92	
For ASTM 120, Deduct	-8.28	
For Work In Restricted Working Space, Add	11.28	
22 11 16 00-0289 EA 3" x 12" Long, Schedule 40 Galvanized Steel Nipple.....	123.06	30.31
For Schedule 80 Nipples, Add	88.44	
For ASTM 120, Deduct	-11.64	
For Work In Restricted Working Space, Add	13.64	
22 11 16 00-0290 EA 4" x 12" Long, Schedule 40 Galvanized Steel Nipple.....	145.40	33.35
For Schedule 80 Nipples, Add	108.79	
For ASTM 120, Deduct	-14.31	
For Work In Restricted Working Space, Add	14.99	
22 11 16 00-0291 Galvanized Malleable Iron Square Head Plugs (22 11 16 00-0013)		
22 11 16 00-0292 EA 1/2", 150 LB, Galvanized Malleable Iron Square Head Plug.....	21.91	10.01
For 300 LB Rating, Add	24.26	
For Work In Restricted Working Space, Add	4.51	
22 11 16 00-0293 EA 3/4", 150 LB, Galvanized Malleable Iron Square Head Plug.....	23.70	11.28
For 300 LB Rating, Add	24.37	
For Work In Restricted Working Space, Add	5.05	
22 11 16 00-0294 EA 1", 150 LB, Galvanized Malleable Iron Square Head Plug.....	26.33	12.55
For 300 LB Rating, Add	26.76	
For Work In Restricted Working Space, Add	5.64	
22 11 16 00-0295 EA 1-1/4", 150 LB, Galvanized Malleable Iron Square Head Plug.....	32.87	14.24
For 300 LB Rating, Add	40.68	
For Work In Restricted Working Space, Add	6.38	
22 11 16 00-0296 EA 1-1/2", 150 LB, Galvanized Malleable Iron Square Head Plug.....	39.60	15.93
For 300 LB Rating, Add	54.51	
For Work In Restricted Working Space, Add	7.20	
22 11 16 00-0297 EA 2", 150 LB, Galvanized Malleable Iron Square Head Plug.....	50.33	20.30
For 300 LB Rating, Add	69.32	
For Work In Restricted Working Space, Add	9.14	
22 11 16 00-0298 EA 2-1/2", 150 LB, Galvanized Malleable Iron Square Head Plug.....	83.83	30.03
For 300 LB Rating, Add	134.35	
For Work In Restricted Working Space, Add	13.53	
22 11 16 00-0299 EA 3", 150 LB, Galvanized Malleable Iron Square Head Plug.....	114.31	39.62
For 300 LB Rating, Add	190.36	
For Work In Restricted Working Space, Add	17.81	
22 11 16 00-0300 EA 4", 150 LB, Galvanized Malleable Iron Square Head Plug.....	172.35	38.85
For 300 LB Rating, Add	391.30	
For Work In Restricted Working Space, Add	17.49	
22 11 16 00-0301 EA 5", 150 LB, Galvanized Malleable Iron Square Head Plug.....	270.10	40.59
For 300 LB Rating, Add	715.17	
For Work In Restricted Working Space, Add	18.25	
22 11 16 00-0302 EA 6", 150 LB, Galvanized Malleable Iron Square Head Plug.....	289.83	42.35
For 300 LB Rating, Add	773.00	
For Work In Restricted Working Space, Add	19.08	
22 11 16 00-0303 Galvanized Malleable Iron Bushing (22 11 16 00-0013)		
22 11 16 00-0304 EA 3/4" x 1/2", 150 LB, Galvanized Malleable Iron Bushing.....	57.28	26.51
For Work In Restricted Working Space, Add	11.95	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0305	EA		1" x 1/2", 150 LB, Galvanized Malleable Iron Bushing.....	63.17	28.20
			<i>For Work In Restricted Working Space, Add</i>	12.69	
22 11 16 00-0306	EA		1" x 3/4", 150 LB, Galvanized Malleable Iron Bushing.....	64.31	29.74
			<i>For Work In Restricted Working Space, Add</i>	13.36	
22 11 16 00-0307	EA		1-1/4" x 1/2", 150 LB, Galvanized Malleable Iron Bushing.....	74.62	30.31
			<i>For Work In Restricted Working Space, Add</i>	13.62	
22 11 16 00-0308	EA		1-1/4" x 3/4", 150 LB, Galvanized Malleable Iron Bushing.....	74.21	31.72
			<i>For Work In Restricted Working Space, Add</i>	14.29	
22 11 16 00-0309	EA		1-1/4" x 1", 150 LB, Galvanized Malleable Iron Bushing.....	76.67	33.42
			<i>For Work In Restricted Working Space, Add</i>	15.03	
22 11 16 00-0310	EA		1-1/2" x 1/2", 150 LB, Galvanized Malleable Iron Bushing.....	87.41	32.57
			<i>For Work In Restricted Working Space, Add</i>	14.64	
22 11 16 00-0311	EA		1-1/2" x 3/4", 150 LB, Galvanized Malleable Iron Bushing.....	89.65	33.98
			<i>For Work In Restricted Working Space, Add</i>	15.31	
22 11 16 00-0312	EA		1-1/2" x 1", 150 LB, Galvanized Malleable Iron Bushing.....	88.32	35.67
			<i>For Work In Restricted Working Space, Add</i>	16.05	
22 11 16 00-0313	EA		1-1/2" x 1-1/4", 150 LB, Galvanized Malleable Iron Bushing.....	88.73	37.78
			<i>For Work In Restricted Working Space, Add</i>	16.98	
22 11 16 00-0314	EA		2" x 1/2", 150 LB, Galvanized Malleable Iron Bushing.....	105.14	37.92
			<i>For Work In Restricted Working Space, Add</i>	17.07	
22 11 16 00-0315	EA		2" x 3/4", 150 LB, Galvanized Malleable Iron Bushing.....	104.03	39.48
			<i>For Work In Restricted Working Space, Add</i>	17.74	
22 11 16 00-0316	EA		2" x 1", 150 LB, Galvanized Malleable Iron Bushing.....	104.03	41.03
			<i>For Work In Restricted Working Space, Add</i>	18.48	
22 11 16 00-0317	EA		2" x 1-1/4", 150 LB, Galvanized Malleable Iron Bushing.....	107.14	43.14
			<i>For Work In Restricted Working Space, Add</i>	19.41	
22 11 16 00-0318	EA		2" x 1-1/2", 150 LB, Galvanized Malleable Iron Bushing.....	105.32	45.39
			<i>For Work In Restricted Working Space, Add</i>	20.43	
22 11 16 00-0319	EA		2-1/2" x 3/4", 150 LB, Galvanized Malleable Iron Bushing.....	147.24	51.60
			<i>For Work In Restricted Working Space, Add</i>	23.23	
22 11 16 00-0320	EA		2-1/2" x 1", 150 LB, Galvanized Malleable Iron Bushing.....	149.69	53.30
			<i>For Work In Restricted Working Space, Add</i>	23.97	
22 11 16 00-0321	EA		2-1/2" x 1-1/4", 150 LB, Galvanized Malleable Iron Bushing.....	152.80	55.27
			<i>For Work In Restricted Working Space, Add</i>	24.90	
22 11 16 00-0322	EA		2-1/2" x 1-1/2", 150 LB, Galvanized Malleable Iron Bushing.....	154.90	57.66
			<i>For Work In Restricted Working Space, Add</i>	25.92	
22 11 16 00-0323	EA		2-1/2" x 2", 150 LB, Galvanized Malleable Iron Bushing.....	155.21	63.02
			<i>For Work In Restricted Working Space, Add</i>	28.35	
22 11 16 00-0324	EA		3" x 3/4", 150 LB, Galvanized Malleable Iron Bushing.....	187.39	63.44
			<i>For Work In Restricted Working Space, Add</i>	28.58	
22 11 16 00-0325	EA		3" x 1", 150 LB, Galvanized Malleable Iron Bushing.....	189.84	65.13
			<i>For Work In Restricted Working Space, Add</i>	29.31	
22 11 16 00-0326	EA		3" x 1-1/4", 150 LB, Galvanized Malleable Iron Bushing.....	192.94	67.25
			<i>For Work In Restricted Working Space, Add</i>	30.24	
22 11 16 00-0327	EA		3" x 1-1/2", 150 LB, Galvanized Malleable Iron Bushing.....	194.54	69.51
			<i>For Work In Restricted Working Space, Add</i>	31.26	
22 11 16 00-0328	EA		3" x 2", 150 LB, Galvanized Malleable Iron Bushing.....	194.20	74.87
			<i>For Work In Restricted Working Space, Add</i>	33.69	
22 11 16 00-0329	EA		3" x 2-1/2", 150 LB, Galvanized Malleable Iron Bushing.....	217.25	87.12
			<i>For Work In Restricted Working Space, Add</i>	39.18	
22 11 16 00-0330	EA		4" x 3/4", 150 LB, Galvanized Malleable Iron Bushing.....	284.64	60.96
			<i>For Work In Restricted Working Space, Add</i>	27.46	
22 11 16 00-0331	EA		4" x 1", 150 LB, Galvanized Malleable Iron Bushing.....	286.80	62.46
			<i>For Work In Restricted Working Space, Add</i>	28.10	
22 11 16 00-0332	EA		4" x 1-1/4", 150 LB, Galvanized Malleable Iron Bushing.....	289.55	64.33
			<i>For Work In Restricted Working Space, Add</i>	28.93	
22 11 16 00-0333	EA		4" x 1-1/2", 150 LB, Galvanized Malleable Iron Bushing.....	292.56	66.33
			<i>For Work In Restricted Working Space, Add</i>	29.83	
22 11 16 00-0334	EA		4" x 2", 150 LB, Galvanized Malleable Iron Bushing.....	277.00	71.08
			<i>For Work In Restricted Working Space, Add</i>	31.99	
22 11 16 00-0335	EA		4" x 2-1/2", 150 LB, Galvanized Malleable Iron Bushing.....	315.95	81.94
			<i>For Work In Restricted Working Space, Add</i>	36.85	
22 11 16 00-0336	EA		4" x 3", 150 LB, Galvanized Malleable Iron Bushing.....	318.96	92.43
			<i>For Work In Restricted Working Space, Add</i>	41.58	
22 11 16 00-0337			Galvanized Malleable Iron Floor Flange <small>(22 11 16 00-0013)</small>		
			Note: Excludes fasteners to floor or wall. See CSI section 05 05 19 00-0001 for anchors.		
22 11 16 00-0338	EA		1/2", 150 LB, Galvanized Malleable Iron Floor Flange.....	84.64	51.52
22 11 16 00-0339	EA		3/4", 150 LB, Galvanized Malleable Iron Floor Flange.....	92.56	56.39
22 11 16 00-0340	EA		1", 150 LB, Galvanized Malleable Iron Floor Flange.....	105.92	63.72
22 11 16 00-0341	EA		1-1/4", 150 LB, Galvanized Malleable Iron Floor Flange.....	110.00	65.98
22 11 16 00-0342	EA		1-1/2", 150 LB, Galvanized Malleable Iron Floor Flange.....	119.70	71.76
22 11 16 00-0343	EA		2", 150 LB, Galvanized Malleable Iron Floor Flange.....	128.07	74.87
22 11 16 00-0344			Galvanized Cast Iron Flanges <small>(22 11 16 00-0013)</small>		
			Note: Excludes bolt and gasket sets See CSI section 23 21 13 23-0713 for Class 150 steel bolt and gasket set.		
22 11 16 00-0345	EA		3/4", 125 LB, Galvanized Cast Iron Flange.....	146.73	56.39
			<i>For Work In Restricted Working Space, Add</i>	25.38	
22 11 16 00-0346	EA		1", 125 LB, Galvanized Cast Iron Flange.....	143.69	63.72
			<i>For Work In Restricted Working Space, Add</i>	28.67	
22 11 16 00-0347	EA		1-1/4", 125 LB, Galvanized Cast Iron Flange.....	124.36	65.98
			<i>For Work In Restricted Working Space, Add</i>	29.68	

22 Plumbing
22 10 Plumbing Piping
22 11 Facility Water Distribution



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0348	EA		1-1/2", 125 LB, Galvanized Cast Iron Flange..... <i>For Work In Restricted Working Space, Add</i>	145.17 32.29	71.76
22 11 16 00-0349	EA		2", 125 LB, Galvanized Cast Iron Flange..... <i>For Work In Restricted Working Space, Add</i>	162.01 33.69	74.87
22 11 16 00-0350	EA		2-1/2", 125 LB, Galvanized Cast Iron Flange..... <i>For Work In Restricted Working Space, Add</i>	188.05 38.97	86.70
22 11 16 00-0351	EA		3", 125 LB, Galvanized Cast Iron Flange..... <i>For Work In Restricted Working Space, Add</i>	321.86 49.46	109.97
22 11 16 00-0352	EA		4", 125 LB, Galvanized Cast Iron Flange..... <i>For Work In Restricted Working Space, Add</i>	413.66 59.95	133.29
22 11 16 00-0353	EA		5", 125 LB, Galvanized Cast Iron Flange..... <i>For Work In Restricted Working Space, Add</i>	573.60 71.36	158.64
22 11 16 00-0354	EA		6", 125 LB, Galvanized Cast Iron Flange..... <i>For Work In Restricted Working Space, Add</i>	632.09 81.98	182.25
22 11 16 00-0355	EA		8", 125 LB, Galvanized Cast Iron Flange..... <i>For Work In Restricted Working Space, Add</i>	592.84 93.68	208.29
22 11 16 00-0356			Cut And Thread Existing In-Place Galvanized Steel Pipe <small>(22 11 16 00-0013)</small> Note: For use when connecting pipe to an existing in-place system.		
22 11 16 00-0357	EA		1/2", Cut And Thread Existing In Place Galvanized Steel Pipe..... <i>For Work In Restricted Working Space, Add</i>	45.94 13.78	
22 11 16 00-0358	EA		3/4", Cut And Thread Existing In Place Galvanized Steel Pipe..... <i>For Work In Restricted Working Space, Add</i>	50.53 15.16	
22 11 16 00-0359	EA		1", Cut And Thread Existing In Place Galvanized Steel Pipe..... <i>For Work In Restricted Working Space, Add</i>	55.13 16.54	
22 11 16 00-0360	EA		1-1/4", Cut And Thread Existing In Place Galvanized Steel Pipe..... <i>For Work In Restricted Working Space, Add</i>	59.72 17.92	
22 11 16 00-0361	EA		1-1/2", Cut And Thread Existing In Place Galvanized Steel Pipe..... <i>For Work In Restricted Working Space, Add</i>	62.79 18.84	
22 11 16 00-0362	EA		2", Cut And Thread Existing In Place Galvanized Steel Pipe..... <i>For Work In Restricted Working Space, Add</i>	65.84 19.75	
22 11 16 00-0363	EA		2-1/2", Cut And Thread Existing In Place Galvanized Steel Pipe..... <i>For Work In Restricted Working Space, Add</i>	68.91 20.67	
22 11 16 00-0364	EA		3", Cut And Thread Existing In Place Galvanized Steel Pipe..... <i>For Work In Restricted Working Space, Add</i>	71.97 21.59	
22 11 16 00-0365	EA		4", Cut And Thread Existing In Place Galvanized Steel Pipe..... <i>For Work In Restricted Working Space, Add</i>	75.03 22.51	
22 11 16 00-0366	EA		6", Cut And Thread Existing In Place Galvanized Steel Pipe..... <i>For Work In Restricted Working Space, Add</i>	81.16 24.35	
22 11 16 00-0367	EA		8", Cut And Thread Existing In Place Galvanized Steel Pipe..... <i>For Work In Restricted Working Space, Add</i>	87.28 26.18	
22 11 16 00-0368			Copper Pipe And Fittings <small>(22 11 16)</small> Note: Excludes hangers. See CSI section 22 11 16 00-0899 for pipe with fittings assembly.		
22 11 16 00-0369			Copper Tube/Pipe <small>(22 11 16 00-0368)</small> Note: Pipe based on inside diameter size. Excludes hangers and fittings (couplers, tees, elbows, etc).		
22 11 16 00-0370			Hard Drawn Type L Copper Tube/Pipe <small>(22 11 16 00-0369)</small>		
22 11 16 00-0371	LF		1/4" Hard Drawn Type L Copper Tube/Pipe <i>For Medical/Oxygen Service Tubing, Add</i> <i>For Up To 20, Add</i> <i>For >150, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	6.89 0.14 0.73 -0.17 1.55	3.45
22 11 16 00-0372	LF		3/8" Hard Drawn Type L Copper Tube/Pipe <i>For Medical/Oxygen Service Tubing, Add</i> <i>For Up To 20, Add</i> <i>For >150, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	7.91 0.20 0.85 -0.25 1.61	3.58
22 11 16 00-0373	LF		1/2" Hard Drawn Type L Copper Tube/Pipe <i>For Medical/Oxygen Service Tubing, Add</i> <i>For Up To 20, Add</i> <i>For >150, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	8.63 0.24 0.94 -0.30 1.68	3.74
22 11 16 00-0374	LF		3/4" Hard Drawn Type L Copper Tube/Pipe <i>For Medical/Oxygen Service Tubing, Add</i> <i>For Up To 20, Add</i> <i>For >150, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	10.86 0.39 1.21 -0.49 1.79	3.97
22 11 16 00-0375	LF		1" Hard Drawn Type L Copper Tube/Pipe <i>For Medical/Oxygen Service Tubing, Add</i> <i>For Up To 20, Add</i> <i>For >150, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	13.78 0.57 1.56 -0.71 2.00	4.45
22 11 16 00-0376	LF		1-1/4" Hard Drawn Type L Copper Tube/Pipe <i>For Medical/Oxygen Service Tubing, Add</i> <i>For Up To 20, Add</i> <i>For >150, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	19.72 0.78 2.22 -0.98 2.98	6.63
22 11 16 00-0377	LF		1-1/2" Hard Drawn Type L Copper Tube/Pipe <i>For Medical/Oxygen Service Tubing, Add</i> <i>For Up To 20, Add</i> <i>For >150, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	23.68 1.01 2.68 -1.26 3.33	7.40



	Plumbing	22
	Plumbing Piping	22 10
	Facility Water Distribution	22 11

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0378	LF		2" Hard Drawn Type L Copper Tube/Pipe .....33.59		9.13
			<i>For Medical/Oxygen Service Tubing, Add</i>	1.59	
			<i>For Up To 20, Add</i>	3.86	
			<i>For >150, Deduct</i>	-1.99	
			<i>For Work In Restricted Working Space, Add</i>	4.10	
22 11 16 00-0379	LF		2-1/2" Hard Drawn Type L Copper Tube/Pipe .....61.00		10.73
			<i>For Medical/Oxygen Service Tubing, Add</i>	2.30	
			<i>For Up To 20, Add</i>	6.82	
			<i>For >150, Deduct</i>	-2.88	
			<i>For Work In Restricted Working Space, Add</i>	9.67	
22 11 16 00-0380	LF		3" Hard Drawn Type L Copper Tube/Pipe .....76.28		12.65
			<i>For Medical/Oxygen Service Tubing, Add</i>	3.07	
			<i>For Up To 20, Add</i>	8.59	
			<i>For >150, Deduct</i>	-3.84	
			<i>For Work In Restricted Working Space, Add</i>	11.37	
22 11 16 00-0381	LF		4" Hard Drawn Type L Copper Tube/Pipe .....111.18		14.27
			<i>For Medical/Oxygen Service Tubing, Add</i>	5.47	
			<i>For Up To 20, Add</i>	12.83	
			<i>For >150, Deduct</i>	-6.84	
			<i>For Work In Restricted Working Space, Add</i>	12.83	
22 11 16 00-0382	LF		5" Hard Drawn Type L Copper Tube/Pipe .....169.94		16.38
			<i>For Medical/Oxygen Service Tubing, Add</i>	9.66	
			<i>For Up To 20, Add</i>	20.01	
			<i>For >150, Deduct</i>	-12.08	
			<i>For Work In Restricted Working Space, Add</i>	14.74	
22 11 16 00-0383	LF		6" Hard Drawn Type L Copper Tube/Pipe .....235.07		25.39
			<i>For Medical/Oxygen Service Tubing, Add</i>	12.72	
			<i>For Up To 20, Add</i>	27.48	
			<i>For >150, Deduct</i>	-15.89	
			<i>For Work In Restricted Working Space, Add</i>	22.84	
22 11 16 00-0384	LF		8" Hard Drawn Type L Copper Tube/Pipe .....384.18		28.23
			<i>For Medical/Oxygen Service Tubing, Add</i>	23.96	
			<i>For Up To 20, Add</i>	45.91	
			<i>For >150, Deduct</i>	-29.96	
			<i>For Work In Restricted Working Space, Add</i>	25.39	
22 11 16 00-0385			Hard Drawn Type K Copper Tube/Pipe (22 11 16 00-0385)		
22 11 16 00-0386	LF		1/4" Hard Drawn Type K Copper Tube/Pipe .....7.50		3.71
			<i>For Medical/Oxygen Service Tubing, Add</i>	0.16	
			<i>For Up To 20, Add</i>	0.80	
			<i>For >150, Deduct</i>	-0.20	
			<i>For Work In Restricted Working Space, Add</i>	1.67	
22 11 16 00-0387	LF		3/8" Hard Drawn Type K Copper Tube/Pipe .....9.83		3.86
			<i>For Medical/Oxygen Service Tubing, Add</i>	0.28	
			<i>For Up To 20, Add</i>	1.07	
			<i>For >150, Deduct</i>	-0.35	
			<i>For Work In Restricted Working Space, Add</i>	1.90	
22 11 16 00-0388	LF		1/2" Hard Drawn Type K Copper Tube/Pipe .....10.30		4.01
			<i>For Medical/Oxygen Service Tubing, Add</i>	0.33	
			<i>For Up To 20, Add</i>	1.13	
			<i>For >150, Deduct</i>	-0.41	
			<i>For Work In Restricted Working Space, Add</i>	1.86	
22 11 16 00-0389	LF		3/4" Hard Drawn Type K Copper Tube/Pipe .....14.57		4.26
			<i>For Medical/Oxygen Service Tubing, Add</i>	0.59	
			<i>For Up To 20, Add</i>	1.64	
			<i>For >150, Deduct</i>	-0.74	
			<i>For Work In Restricted Working Space, Add</i>	2.15	
22 11 16 00-0390	LF		1" Hard Drawn Type K Copper Tube/Pipe .....17.47		4.79
			<i>For Medical/Oxygen Service Tubing, Add</i>	0.79	
			<i>For Up To 20, Add</i>	1.99	
			<i>For >150, Deduct</i>	-0.98	
			<i>For Work In Restricted Working Space, Add</i>	2.29	
22 11 16 00-0391	LF		1-1/4" Hard Drawn Type K Copper Tube/Pipe .....23.06		7.12
			<i>For Medical/Oxygen Service Tubing, Add</i>	0.98	
			<i>For Up To 20, Add</i>	2.61	
			<i>For >150, Deduct</i>	-1.23	
			<i>For Work In Restricted Working Space, Add</i>	3.24	
22 11 16 00-0392	LF		1-1/2" Hard Drawn Type K Copper Tube/Pipe .....27.84		7.95
			<i>For Medical/Oxygen Service Tubing, Add</i>	1.26	
			<i>For Up To 20, Add</i>	3.18	
			<i>For >150, Deduct</i>	-1.57	
			<i>For Work In Restricted Working Space, Add</i>	3.65	
22 11 16 00-0393	LF		2" Hard Drawn Type K Copper Tube/Pipe .....39.00		9.81
			<i>For Medical/Oxygen Service Tubing, Add</i>	1.93	
			<i>For Up To 20, Add</i>	4.50	
			<i>For >150, Deduct</i>	-2.41	
			<i>For Work In Restricted Working Space, Add</i>	4.47	
22 11 16 00-0394	LF		2-1/2" Hard Drawn Type K Copper Tube/Pipe .....68.30		11.53
			<i>For Medical/Oxygen Service Tubing, Add</i>	2.87	
			<i>For Up To 20, Add</i>	7.73	
			<i>For >150, Deduct</i>	-3.59	
			<i>For Work In Restricted Working Space, Add</i>	9.71	

22	Plumbing
22 10	Plumbing Piping
22 11	Facility Water Distribution



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0395 LF 3" Hard Drawn Type K Copper Tube/Pipe	90.83	13.60
For Medical/Oxygen Service Tubing, Add	3.93	
For Up To 20, Add	10.31	
For >150, Deduct	-4.91	
For Work In Restricted Working Space, Add	12.51	
22 11 16 00-0396 LF 4" Hard Drawn Type K Copper Tube/Pipe	134.81	15.33
For Medical/Oxygen Service Tubing, Add	7.00	
For Up To 20, Add	15.67	
For >150, Deduct	-8.76	
For Work In Restricted Working Space, Add	14.18	
22 11 16 00-0397 LF 5" Hard Drawn Type K Copper Tube/Pipe	216.22	17.61
For Medical/Oxygen Service Tubing, Add	12.83	
For Up To 20, Add	25.63	
For >150, Deduct	-16.04	
For Work In Restricted Working Space, Add	16.74	
22 11 16 00-0398 LF 6" Hard Drawn Type K Copper Tube/Pipe	320.13	27.29
For Medical/Oxygen Service Tubing, Add	18.42	
For Up To 20, Add	37.77	
For >150, Deduct	-23.02	
For Work In Restricted Working Space, Add	26.98	
22 11 16 00-0399 LF 8" Hard Drawn Type K Copper Tube/Pipe	530.14	30.34
For Medical/Oxygen Service Tubing, Add	34.48	
For Up To 20, Add	63.79	
For >150, Deduct	-43.10	
For Work In Restricted Working Space, Add	29.73	
22 11 16 00-0400 Hard Drawn Type M Copper Tube/Pipe <small>(22 11 16 00-0369)</small>		
22 11 16 00-0401 LF 3/8" Hard Drawn Type M Copper Tube/Pipe	6.63	3.23
For Up To 20, Add	0.71	
For >150, Deduct	-0.20	
For Work In Restricted Working Space, Add	1.40	
22 11 16 00-0402 LF 1/2" Hard Drawn Type M Copper Tube/Pipe	7.03	3.37
For Up To 20, Add	0.76	
For >150, Deduct	-0.22	
For Work In Restricted Working Space, Add	1.44	
22 11 16 00-0403 LF 3/4" Hard Drawn Type M Copper Tube/Pipe	8.72	3.57
For Up To 20, Add	0.96	
For >150, Deduct	-0.36	
For Work In Restricted Working Space, Add	1.54	
22 11 16 00-0404 LF 1" Hard Drawn Type M Copper Tube/Pipe	11.26	4.01
For Up To 20, Add	1.26	
For >150, Deduct	-0.55	
For Work In Restricted Working Space, Add	1.72	
22 11 16 00-0405 LF 1-1/4" Hard Drawn Type M Copper Tube/Pipe	16.88	5.97
For Up To 20, Add	1.89	
For >150, Deduct	-0.81	
For Work In Restricted Working Space, Add	2.64	
22 11 16 00-0406 LF 1-1/2" Hard Drawn Type M Copper Tube/Pipe	21.24	6.66
For Up To 20, Add	2.40	
For >150, Deduct	-1.11	
For Work In Restricted Working Space, Add	3.03	
22 11 16 00-0407 LF 2" Hard Drawn Type M Copper Tube/Pipe	30.06	8.21
For Up To 20, Add	3.44	
For >150, Deduct	-1.75	
For Work In Restricted Working Space, Add	3.76	
22 11 16 00-0408 LF 2-1/2" Hard Drawn Type M Copper Tube/Pipe	55.88	9.65
For Up To 20, Add	6.22	
For >150, Deduct	-2.54	
For Work In Restricted Working Space, Add	9.14	
22 11 16 00-0409 LF 3" Hard Drawn Type M Copper Tube/Pipe	68.01	11.37
For Up To 20, Add	7.65	
For >150, Deduct	-3.38	
For Work In Restricted Working Space, Add	10.26	
22 11 16 00-0410 LF 4" Hard Drawn Type M Copper Tube/Pipe	103.23	12.84
For Up To 20, Add	11.91	
For >150, Deduct	-6.33	
For Work In Restricted Working Space, Add	11.97	
22 11 16 00-0411 LF 5" Hard Drawn Type M Copper Tube/Pipe	168.99	14.74
For Up To 20, Add	19.97	
For >150, Deduct	-12.29	
For Work In Restricted Working Space, Add	13.82	
22 11 16 00-0412 LF 6" Hard Drawn Type M Copper Tube/Pipe	235.58	22.86
For Up To 20, Add	27.66	
For >150, Deduct	-16.42	
For Work In Restricted Working Space, Add	21.41	
22 11 16 00-0413 LF 8" Hard Drawn Type M Copper Tube/Pipe	389.71	25.40
For Up To 20, Add	46.75	
For >150, Deduct	-31.12	
For Work In Restricted Working Space, Add	23.55	
22 11 16 00-0414 Soft Drawn Type L Copper Tube <small>(22 11 16 00-0369)</small>		



Plumbing	22	22
Plumbing Piping	22 10	
Facility Water Distribution	22 11	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0415	LF		1/4" Soft Drawn Type L Copper Tube.....	7.39	3.45
			<i>For Up To 20, Add</i>	0.79	
			<i>For >150, Deduct</i>	-0.22	
			<i>For Work In Restricted Working Space, Add</i>	1.55	
22 11 16 00-0416	LF		3/8" Soft Drawn Type L Copper Tube.....	8.85	3.58
			<i>For Up To 20, Add</i>	0.97	
			<i>For >150, Deduct</i>	-0.35	
			<i>For Work In Restricted Working Space, Add</i>	1.61	
22 11 16 00-0417	LF		1/2" Soft Drawn Type L Copper Tube.....	10.27	3.74
			<i>For Up To 20, Add</i>	1.14	
			<i>For >150, Deduct</i>	-0.47	
			<i>For Work In Restricted Working Space, Add</i>	1.68	
22 11 16 00-0418	LF		5/8" Soft Drawn Type L Copper Tube.....	11.76	3.86
			<i>For Up To 20, Add</i>	1.33	
			<i>For >150, Deduct</i>	-0.60	
			<i>For Work In Restricted Working Space, Add</i>	1.73	
22 11 16 00-0419	LF		3/4" Soft Drawn Type L Copper Tube.....	13.08	3.97
			<i>For Up To 20, Add</i>	1.49	
			<i>For >150, Deduct</i>	-0.71	
			<i>For Work In Restricted Working Space, Add</i>	1.79	
22 11 16 00-0420	LF		1" Soft Drawn Type L Copper Tube.....	16.55	4.45
			<i>For Up To 20, Add</i>	1.90	
			<i>For >150, Deduct</i>	-0.99	
			<i>For Work In Restricted Working Space, Add</i>	2.00	
22 11 16 00-0421	LF		1-1/4" Soft Drawn Type L Copper Tube.....	22.92	6.63
			<i>For Up To 20, Add</i>	2.62	
			<i>For >150, Deduct</i>	-1.30	
			<i>For Work In Restricted Working Space, Add</i>	2.98	
22 11 16 00-0422	LF		1-1/2" Soft Drawn Type L Copper Tube.....	28.70	7.40
			<i>For Up To 20, Add</i>	3.31	
			<i>For >150, Deduct</i>	-1.76	
			<i>For Work In Restricted Working Space, Add</i>	3.33	
22 11 16 00-0423	LF		2" Soft Drawn Type L Copper Tube.....	41.68	9.13
			<i>For Up To 20, Add</i>	4.87	
			<i>For >150, Deduct</i>	-2.80	
			<i>For Work In Restricted Working Space, Add</i>	4.10	
22 11 16 00-0424			Soft Drawn Type K Copper Tube (22 11 16 00-0369)		
22 11 16 00-0425	LF		1/4" Soft Drawn Type K Copper Tube.....	7.62	3.45
			<i>For Up To 20, Add</i>	0.82	
			<i>For >150, Deduct</i>	-0.25	
			<i>For Work In Restricted Working Space, Add</i>	1.55	
22 11 16 00-0426	LF		3/8" Soft Drawn Type K Copper Tube.....	9.57	3.58
			<i>For Up To 20, Add</i>	1.06	
			<i>For >150, Deduct</i>	-0.42	
			<i>For Work In Restricted Working Space, Add</i>	1.61	
22 11 16 00-0427	LF		1/2" Soft Drawn Type K Copper Tube.....	10.87	3.74
			<i>For Up To 20, Add</i>	1.22	
			<i>For >150, Deduct</i>	-0.53	
			<i>For Work In Restricted Working Space, Add</i>	1.68	
22 11 16 00-0428	LF		5/8" Soft Drawn Type K Copper Tube.....	12.05	3.86
			<i>For Up To 20, Add</i>	1.36	
			<i>For >150, Deduct</i>	-0.63	
			<i>For Work In Restricted Working Space, Add</i>	1.73	
22 11 16 00-0429	LF		3/4" Soft Drawn Type K Copper Tube.....	15.67	3.97
			<i>For Up To 20, Add</i>	1.81	
			<i>For >150, Deduct</i>	-0.97	
			<i>For Work In Restricted Working Space, Add</i>	1.79	
22 11 16 00-0430	LF		1" Soft Drawn Type K Copper Tube.....	19.59	4.45
			<i>For Up To 20, Add</i>	2.28	
			<i>For >150, Deduct</i>	-1.29	
			<i>For Work In Restricted Working Space, Add</i>	2.00	
22 11 16 00-0431	LF		1-1/4" Soft Drawn Type K Copper Tube.....	25.14	6.63
			<i>For Up To 20, Add</i>	2.89	
			<i>For >150, Deduct</i>	-1.52	
			<i>For Work In Restricted Working Space, Add</i>	2.98	
22 11 16 00-0432	LF		1-1/2" Soft Drawn Type K Copper Tube.....	32.23	7.40
			<i>For Up To 20, Add</i>	3.75	
			<i>For >150, Deduct</i>	-2.11	
			<i>For Work In Restricted Working Space, Add</i>	3.33	
22 11 16 00-0433	LF		2" Soft Drawn Type K Copper Tube.....	46.54	9.13
			<i>For Up To 20, Add</i>	5.48	
			<i>For >150, Deduct</i>	-3.29	
			<i>For Work In Restricted Working Space, Add</i>	4.10	
22 11 16 00-0434	LF		2-1/2" Soft Drawn Type K Copper Tube.....	65.69	10.95
			<i>For Up To 20, Add</i>	7.80	
			<i>For >150, Deduct</i>	-4.93	
			<i>For Work In Restricted Working Space, Add</i>	4.92	
22 11 16 00-0435	LF		3" Soft Drawn Type K Copper Tube.....	87.93	12.92
			<i>For Up To 20, Add</i>	10.51	
			<i>For >150, Deduct</i>	-6.86	
			<i>For Work In Restricted Working Space, Add</i>	5.81	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0436 Copper And Brass Fittings (22 11 16 00-0368) Note: All fittings are based on 95/5 solder.		
22 11 16 00-0437 90 Degree Copper Elbows (22 11 16 00-0436)		
22 11 16 00-0438 EA 1/4" 90 Degree Copper Elbow .....35.02	35.02	20.43
For Silver Solder Instead Of 95/5 Solder, Add	4.81	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.28	
For Brazed Fittings Instead Of 95/5 Solder, Add	4.59	
For Street Fitting, Add	1.76	
For Work In Restricted Working Space, Add	9.19	
22 11 16 00-0439 EA 3/8" 90 Degree Copper Elbow .....41.39	41.39	24.50
For Silver Solder Instead Of 95/5 Solder, Add	5.74	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.91	
For Brazed Fittings Instead Of 95/5 Solder, Add	5.51	
For Street Fitting, Add	1.86	
For Work In Restricted Working Space, Add	11.03	
22 11 16 00-0440 EA 1/2" 90 Degree Copper Elbow .....52.03	52.03	33.68
For Silver Solder Instead Of 95/5 Solder, Add	7.65	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.13	
For Brazed Fittings Instead Of 95/5 Solder, Add	7.58	
For Street Fitting, Add	0.60	
For Work In Restricted Working Space, Add	15.16	
22 11 16 00-0441 EA 3/4" 90 Degree Copper Elbow .....66.17	66.17	41.96
For Silver Solder Instead Of 95/5 Solder, Add	9.59	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-6.45	
For Brazed Fittings Instead Of 95/5 Solder, Add	9.42	
For Street Fitting, Add	1.35	
For Work In Restricted Working Space, Add	18.84	
22 11 16 00-0442 EA 1" 90 Degree Copper Elbow .....83.31	83.31	50.07
For Silver Solder Instead Of 95/5 Solder, Add	11.67	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-7.92	
For Brazed Fittings Instead Of 95/5 Solder, Add	11.26	
For Street Fitting, Add	3.31	
For Work In Restricted Working Space, Add	22.51	
22 11 16 00-0443 EA 1-1/4" 90 Degree Copper Elbow .....93.53	93.53	54.21
For Silver Solder Instead Of 95/5 Solder, Add	12.79	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-8.73	
For Brazed Fittings Instead Of 95/5 Solder, Add	12.17	
For Street Fitting, Add	4.95	
For Work In Restricted Working Space, Add	24.35	
22 11 16 00-0444 EA 1-1/2" 90 Degree Copper Elbow .....108.16	108.16	59.26
For Silver Solder Instead Of 95/5 Solder, Add	14.29	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-9.85	
For Brazed Fittings Instead Of 95/5 Solder, Add	13.32	
For Street Fitting, Add	7.74	
For Work In Restricted Working Space, Add	26.65	
22 11 16 00-0445 EA 2" 90 Degree Copper Elbow .....134.80	134.80	66.45
For Silver Solder Instead Of 95/5 Solder, Add	16.69	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-11.72	
For Brazed Fittings Instead Of 95/5 Solder, Add	14.93	
For Street Fitting, Add	14.10	
For Work In Restricted Working Space, Add	29.86	
22 11 16 00-0446 EA 2-1/2" 90 Degree Copper Elbow .....168.94	168.94	67.68
For Silver Solder Instead Of 95/5 Solder, Add	18.60	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-13.52	
For Brazed Fittings Instead Of 95/5 Solder, Add	15.23	
For Work In Restricted Working Space, Add	30.45	
22 11 16 00-0447 EA 3" 90 Degree Copper Elbow .....216.35	216.35	80.92
For Silver Solder Instead Of 95/5 Solder, Add	22.94	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-16.88	
For Brazed Fittings Instead Of 95/5 Solder, Add	18.19	
For Work In Restricted Working Space, Add	36.37	
22 11 16 00-0448 EA 4" 90 Degree Copper Elbow .....402.75	402.75	114.76
For Silver Solder Instead Of 95/5 Solder, Add	37.34	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-28.74	
For Brazed Fittings Instead Of 95/5 Solder, Add	25.80	
For Work In Restricted Working Space, Add	51.60	
22 11 16 00-0449 EA 5" 90 Degree Copper Elbow .....1,202.15	1,202.15	157.05
For Silver Solder Instead Of 95/5 Solder, Add	83.65	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-71.88	
For Brazed Fittings Instead Of 95/5 Solder, Add	35.32	
For Work In Restricted Working Space, Add	70.63	
22 11 16 00-0450 EA 6" 90 Degree Copper Elbow .....1,631.28	1,631.28	228.53
For Silver Solder Instead Of 95/5 Solder, Add	115.82	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-98.69	
For Brazed Fittings Instead Of 95/5 Solder, Add	51.39	
For Work In Restricted Working Space, Add	102.77	
22 11 16 00-0451 EA 8" 90 Degree Copper Elbow .....5,224.29	5,224.29	304.66
For Silver Solder Instead Of 95/5 Solder, Add	306.89	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-284.05	
For Brazed Fittings Instead Of 95/5 Solder, Add	68.52	
For Work In Restricted Working Space, Add	137.03	
22 11 16 00-0452 90 Degree Brass Elbows (22 11 16 00-0436)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0453 EA 1/2" Drop Ear 90 Degree Brass Elbow.....	59.97	33.68
For Silver Solder Instead Of 95/5 Solder, Add	8.05	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.53	
For Brazed Fittings Instead Of 95/5 Solder, Add	7.58	
For Work In Restricted Working Space, Add	15.16	
22 11 16 00-0454 EA 3/4" Drop Ear 90 Degree Brass Elbow.....	90.32	41.96
For Silver Solder Instead Of 95/5 Solder, Add	10.80	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-7.66	
For Brazed Fittings Instead Of 95/5 Solder, Add	9.42	
For Work In Restricted Working Space, Add	18.84	
22 11 16 00-0455 EA 1/2" Flanged Sink 90 Degree Brass Elbow.....	67.74	33.68
For Silver Solder Instead Of 95/5 Solder, Add	8.44	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.91	
For Brazed Fittings Instead Of 95/5 Solder, Add	7.58	
For Work In Restricted Working Space, Add	15.16	
22 11 16 00-0456 EA 3/8" Drop Ear 90 Degree Brass Elbow, Solder X Threaded.....	50.87	24.50
For Silver Solder Instead Of 95/5 Solder, Add	6.22	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-4.38	
For Brazed Fittings Instead Of 95/5 Solder, Add	5.51	
For Work In Restricted Working Space, Add	11.03	
22 11 16 00-0457 EA 1/2" Drop Ear 90 Degree Brass Elbow, Solder X Threaded.....	60.64	33.68
For Silver Solder Instead Of 95/5 Solder, Add	8.09	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.56	
For Brazed Fittings Instead Of 95/5 Solder, Add	7.58	
For Work In Restricted Working Space, Add	15.16	
22 11 16 00-0458 EA 3/4" Drop Ear 90 Degree Brass Elbow, Solder X Threaded.....	80.59	41.96
For Silver Solder Instead Of 95/5 Solder, Add	10.31	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-7.17	
For Brazed Fittings Instead Of 95/5 Solder, Add	9.42	
For Work In Restricted Working Space, Add	18.84	
22 11 16 00-0459 EA 1" Drop Ear 90 Degree Brass Elbow, Solder X Threaded.....	131.86	50.07
For Silver Solder Instead Of 95/5 Solder, Add	14.10	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-10.35	
For Brazed Fittings Instead Of 95/5 Solder, Add	11.26	
For Work In Restricted Working Space, Add	22.51	
22 11 16 00-0460 Reducing 90 Degree Copper Elbows (22 11 16 00-0436)		
22 11 16 00-0461 EA 1/2" Reducing 90 Degree Copper Elbow	62.73	33.68
For Silver Solder Instead Of 95/5 Solder, Add	8.19	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.66	
For Brazed Fittings Instead Of 95/5 Solder, Add	7.58	
For Work In Restricted Working Space, Add	15.16	
22 11 16 00-0462 EA 3/4" Reducing 90 Degree Copper Elbow	71.44	41.96
For Silver Solder Instead Of 95/5 Solder, Add	9.85	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-6.71	
For Brazed Fittings Instead Of 95/5 Solder, Add	9.42	
For Work In Restricted Working Space, Add	18.84	
22 11 16 00-0463 EA 1" Reducing 90 Degree Copper Elbow	90.92	50.07
For Silver Solder Instead Of 95/5 Solder, Add	12.05	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-8.30	
For Brazed Fittings Instead Of 95/5 Solder, Add	11.26	
For Work In Restricted Working Space, Add	22.51	
22 11 16 00-0464 EA 1-1/4" Reducing 90 Degree Copper Elbow	121.60	54.21
For Silver Solder Instead Of 95/5 Solder, Add	14.20	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-10.14	
For Brazed Fittings Instead Of 95/5 Solder, Add	12.17	
For Work In Restricted Working Space, Add	24.35	
22 11 16 00-0465 EA 1-1/2" Reducing 90 Degree Copper Elbow	141.96	59.26
For Silver Solder Instead Of 95/5 Solder, Add	15.98	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-11.54	
For Brazed Fittings Instead Of 95/5 Solder, Add	13.32	
For Work In Restricted Working Space, Add	26.65	
22 11 16 00-0466 EA 2" Reducing 90 Degree Copper Elbow	171.06	66.45
For Silver Solder Instead Of 95/5 Solder, Add	18.51	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-13.53	
For Brazed Fittings Instead Of 95/5 Solder, Add	14.93	
For Work In Restricted Working Space, Add	29.86	
22 11 16 00-0467 45 Degree Copper Elbows (22 11 16 00-0436)		
22 11 16 00-0468 EA 1/4" 45 Degree Copper Elbow	38.82	20.43
For Silver Solder Instead Of 95/5 Solder, Add	5.00	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.47	
For Brazed Fittings Instead Of 95/5 Solder, Add	4.59	
For Street Fitting, Add	3.28	
For Work In Restricted Working Space, Add	9.19	
22 11 16 00-0469 EA 3/8" 45 Degree Copper Elbow	43.77	24.50
For Silver Solder Instead Of 95/5 Solder, Add	5.86	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-4.03	
For Brazed Fittings Instead Of 95/5 Solder, Add	5.51	
For Street Fitting, Add	2.81	
For Work In Restricted Working Space, Add	11.03	

22 Plumbing
22 10 Plumbing Piping
22 11 Facility Water Distribution



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0470 EA 1/2" 45 Degree Copper Elbow	53.29	33.68
For Silver Solder Instead Of 95/5 Solder, Add	7.72	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.19	
For Brazed Fittings Instead Of 95/5 Solder, Add	7.58	
For Street Fitting, Add	1.10	
For Work In Restricted Working Space, Add	15.16	
22 11 16 00-0471 EA 3/4" 45 Degree Copper Elbow	67.51	41.96
For Silver Solder Instead Of 95/5 Solder, Add	9.65	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-6.52	
For Brazed Fittings Instead Of 95/5 Solder, Add	9.42	
For Street Fitting, Add	1.89	
For Work In Restricted Working Space, Add	18.84	
22 11 16 00-0472 EA 1" 45 Degree Copper Elbow	86.82	50.07
For Silver Solder Instead Of 95/5 Solder, Add	11.85	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-8.09	
For Brazed Fittings Instead Of 95/5 Solder, Add	11.26	
For Street Fitting, Add	4.71	
For Work In Restricted Working Space, Add	22.51	
22 11 16 00-0473 EA 1-1/4" 45 Degree Copper Elbow	97.12	54.21
For Silver Solder Instead Of 95/5 Solder, Add	12.97	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-8.91	
For Brazed Fittings Instead Of 95/5 Solder, Add	12.17	
For Street Fitting, Add	6.38	
For Work In Restricted Working Space, Add	24.35	
22 11 16 00-0474 EA 1-1/2" 45 Degree Copper Elbow	108.41	59.26
For Silver Solder Instead Of 95/5 Solder, Add	14.30	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-9.86	
For Brazed Fittings Instead Of 95/5 Solder, Add	13.32	
For Street Fitting, Add	7.84	
For Work In Restricted Working Space, Add	26.65	
22 11 16 00-0475 EA 2" 45 Degree Copper Elbow	132.21	66.45
For Silver Solder Instead Of 95/5 Solder, Add	16.56	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-11.59	
For Brazed Fittings Instead Of 95/5 Solder, Add	14.93	
For Work In Restricted Working Space, Add	29.86	
22 11 16 00-0476 EA 2-1/2" 45 Degree Copper Elbow	168.12	67.68
For Silver Solder Instead Of 95/5 Solder, Add	18.56	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-13.48	
For Brazed Fittings Instead Of 95/5 Solder, Add	15.23	
For Work In Restricted Working Space, Add	30.45	
22 11 16 00-0477 EA 3" 45 Degree Copper Elbow	220.09	80.92
For Silver Solder Instead Of 95/5 Solder, Add	23.13	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-17.07	
For Brazed Fittings Instead Of 95/5 Solder, Add	18.19	
For Work In Restricted Working Space, Add	36.37	
22 11 16 00-0478 EA 4" 45 Degree Copper Elbow	382.78	114.76
For Silver Solder Instead Of 95/5 Solder, Add	36.34	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-27.74	
For Brazed Fittings Instead Of 95/5 Solder, Add	25.80	
For Work In Restricted Working Space, Add	51.60	
22 11 16 00-0479 EA 5" 45 Degree Copper Elbow	1,051.79	157.05
For Silver Solder Instead Of 95/5 Solder, Add	76.13	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-64.36	
For Brazed Fittings Instead Of 95/5 Solder, Add	35.32	
For Work In Restricted Working Space, Add	70.63	
22 11 16 00-0480 EA 6" 45 Degree Copper Elbow	1,629.08	228.53
For Silver Solder Instead Of 95/5 Solder, Add	115.71	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-98.58	
For Brazed Fittings Instead Of 95/5 Solder, Add	51.39	
For Work In Restricted Working Space, Add	102.77	
22 11 16 00-0481 EA 8" 45 Degree Copper Elbow	4,828.22	304.66
For Silver Solder Instead Of 95/5 Solder, Add	287.09	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-264.25	
For Brazed Fittings Instead Of 95/5 Solder, Add	68.52	
For Work In Restricted Working Space, Add	137.03	
22 11 16 00-0482 Straight Copper And Brass Tees (22 11 16 00-0436)		
22 11 16 00-0483 EA 1/4" Straight Copper Tee	55.13	30.63
For Silver Solder Instead Of 95/5 Solder, Add	7.35	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.05	
For Brazed Fittings Instead Of 95/5 Solder, Add	6.89	
For Work In Restricted Working Space, Add	13.78	
22 11 16 00-0484 EA 3/8" Straight Copper Tee	62.52	36.75
For Silver Solder Instead Of 95/5 Solder, Add	8.64	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.88	
For Brazed Fittings Instead Of 95/5 Solder, Add	8.27	
For Work In Restricted Working Space, Add	16.54	
22 11 16 00-0485 EA 1/2" Straight Copper Tee	79.16	51.14
For Silver Solder Instead Of 95/5 Solder, Add	11.62	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-7.79	
For Brazed Fittings Instead Of 95/5 Solder, Add	11.49	
For Work In Restricted Working Space, Add	22.97	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0486	EA		3/4" Straight Copper Tee <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	101.12 14.55 -9.80 14.24 28.48	63.40
22 11 16 00-0487	EA		1" Straight Copper Tee <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	131.91 17.93 -12.26 17.00 34.00	75.65
22 11 16 00-0488	EA		1-1/4" Straight Copper Tee <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	148.40 19.67 -13.55 18.38 36.75	81.77
22 11 16 00-0489	EA		1-1/2" Straight Copper Tee <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	172.41 21.94 -15.28 19.98 39.97	88.82
22 11 16 00-0490	EA		2" Straight Copper Tee <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	212.36 25.63 -18.12 22.51 45.02	100.15
22 11 16 00-0491	EA		2-1/2" Straight Copper Tee <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	272.47 28.85 -21.24 22.84 45.68	101.50
22 11 16 00-0492	EA		3" Straight Copper Tee <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	366.93 36.67 -27.51 27.49 54.98	122.23
22 11 16 00-0493	EA		4" Straight Copper Tee <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	701.06 60.71 -47.88 38.49 76.97	171.15
22 11 16 00-0494	EA		5" Straight Copper Tee <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,804.04 125.31 -107.75 52.66 105.32	234.17
22 11 16 00-0495	EA		6" Straight Copper Tee <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,500.80 176.50 -150.77 77.19 154.37	343.28
22 11 16 00-0496	EA		8" Straight Copper Tee <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	8,346.93 485.86 -451.61 102.78 205.55	457.06
22 11 16 00-0497	EA		1/2" Cast Bronze Drop Ear Tee <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	92.49 12.28 -8.45 11.49 22.97	51.14
22 11 16 00-0498			Reducing Copper Tees (22 11 16 00-0436)		
22 11 16 00-0499	EA		3/8" Reducing Copper Tee <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	63.62 8.08 -5.63 7.35 14.70	32.62
22 11 16 00-0500	EA		1/2" Reducing Copper Tee <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	81.78 10.98 -7.53 10.34 20.67	45.94
22 11 16 00-0501	EA		3/4" Reducing Copper Tee <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	95.38 13.65 -9.21 13.32 26.65	59.26
22 11 16 00-0502	EA		1" Reducing Copper Tee <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	128.05 17.12 -11.76 16.08 32.16	71.51

22 Plumbing
22 10 Plumbing Piping
22 11 Facility Water Distribution



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0503	EA		1-1/4" Reducing Copper Tee For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	148.01 19.04 -13.22 17.46 34.91	77.64
22 11 16 00-0504	EA		1-1/2" Reducing Copper Tee For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	171.80 21.30 -14.95 19.07 38.13	84.84
22 11 16 00-0505	EA		2" Reducing Copper Tee For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	207.04 24.59 -17.47 21.36 42.72	94.94
22 11 16 00-0506	EA		2-1/2" Reducing Copper Tee For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	278.31 28.58 -21.25 21.99 43.99	97.84
22 11 16 00-0507	EA		3" Reducing Copper Tee For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	385.43 36.19 -27.73 25.38 50.75	112.79
22 11 16 00-0508	EA		4" Reducing Copper Tee For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	663.89 54.06 -43.63 31.30 62.60	139.15
22 11 16 00-0509			Copper Couplings (22 11 16 00-0436)		
22 11 16 00-0510	EA		1/4" Copper Coupling For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	31.51 4.64 -3.11 4.59 9.19	20.43
22 11 16 00-0511	EA		3/8" Copper Coupling For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	37.92 5.57 -3.73 5.51 11.03	24.50
22 11 16 00-0512	EA		1/2" Copper Coupling For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	51.49 7.63 -5.10 7.58 15.16	33.68
22 11 16 00-0513	EA		3/4" Copper Coupling For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	64.75 9.52 -6.38 9.42 18.84	41.96
22 11 16 00-0514	EA		1" Copper Coupling For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	78.93 11.45 -7.70 11.26 22.51	50.07
22 11 16 00-0515	EA		1-1/4" Copper Coupling For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	88.01 12.52 -8.46 12.17 24.35	54.21
22 11 16 00-0516	EA		1-1/2" Copper Coupling For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	97.89 13.78 -9.34 13.32 26.65	59.26
22 11 16 00-0517	EA		2" Copper Coupling For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	114.62 15.69 -10.71 14.93 29.86	65.85
22 11 16 00-0518	EA		2-1/2" Copper Coupling For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	126.11 15.89 -11.10 14.38 28.76	64.00
22 11 16 00-0519	EA		3" Copper Coupling For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	156.76 19.40 -13.62 17.34 34.68	77.54



	Plumbing	22
	Plumbing Piping	22 10
	Facility Water Distribution	22 11

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0520	EA		4" Copper Coupling..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	245.74 27.80 -20.04 23.26 46.52	104.33
22 11 16 00-0521	EA		5" Copper Coupling..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	400.42 41.17 -30.59 31.72 63.44	190.33
22 11 16 00-0522	EA		6" Copper Coupling..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	622.41 62.14 -46.63 46.52 93.05	206.82
22 11 16 00-0523	EA		8" Copper Coupling..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,423.84 112.36 -91.78 61.75 123.50	274.21
22 11 16 00-0524			Reducing Copper Couplings (22 11 16 00-0436)		
22 11 16 00-0525	EA		3/8" Reducing Copper Coupling <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	32.55 4.69 -3.16 4.59 9.19	20.37
22 11 16 00-0526	EA		1/2" Reducing Copper Coupling <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	45.66 6.65 -4.47 6.55 13.10	29.09
22 11 16 00-0527	EA		3/4" Reducing Copper Coupling <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	60.13 8.67 -5.84 8.50 17.00	37.83
22 11 16 00-0528	EA		1" Reducing Copper Coupling <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	75.18 10.65 -7.20 10.34 20.67	45.94
22 11 16 00-0529	EA		1-1/4" Reducing Copper Coupling <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	86.82 12.15 -8.25 11.71 23.43	52.06
22 11 16 00-0530	EA		1-1/2" Reducing Copper Coupling <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	99.44 13.47 -9.22 12.75 25.50	56.66
22 11 16 00-0531	EA		2" Reducing Copper Coupling <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	116.53 15.24 -10.54 14.13 28.25	62.79
22 11 16 00-0532	EA		2-1/2" Reducing Copper Coupling <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	141.44 16.73 -11.90 14.49 28.97	64.43
22 11 16 00-0533	EA		3" Reducing Copper Coupling <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	166.84 19.48 -13.91 16.71 33.41	74.72
22 11 16 00-0534	EA		4" Reducing Copper Coupling <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	256.72 27.50 -20.17 21.99 43.99	97.84
22 11 16 00-0535	EA		5" Reducing Copper Coupling <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	634.96 52.19 -41.97 30.66 61.33	136.33
22 11 16 00-0536	EA		6" Reducing Copper Coupling <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	941.63 74.57 -60.83 41.24 82.47	183.28

22	Plumbing
22 10	Plumbing Piping
22 11	Facility Water Distribution



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0537 EA 8" Reducing Copper Coupling.....	1,813.78	267.06
For Silver Solder Instead Of 95/5 Solder, Add	130.73	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-110.71	
For Brazed Fittings Instead Of 95/5 Solder, Add	60.06	
For Work In Restricted Working Space, Add	120.12	
22 11 16 00-0538 Male Copper Adapters (22 11 16 00-0436)		
22 11 16 00-0539 EA 1/4" Male Copper Adapter.....	46.13	19.90
For Silver Solder Instead Of 95/5 Solder, Add	5.37	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.84	
For Brazed Fittings Instead Of 95/5 Solder, Add	4.59	
For Work In Restricted Working Space, Add	9.19	
22 11 16 00-0540 EA 3/8" Male Copper Adapter.....	44.48	24.50
For Silver Solder Instead Of 95/5 Solder, Add	5.90	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-4.06	
For Brazed Fittings Instead Of 95/5 Solder, Add	5.51	
For Work In Restricted Working Space, Add	11.03	
22 11 16 00-0541 EA 1/2" Male Copper Adapter.....	49.07	30.63
For Silver Solder Instead Of 95/5 Solder, Add	7.05	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-4.75	
For Brazed Fittings Instead Of 95/5 Solder, Add	6.89	
For Work In Restricted Working Space, Add	13.78	
22 11 16 00-0542 EA 3/4" Male Copper Adapter.....	61.97	38.28
For Silver Solder Instead Of 95/5 Solder, Add	8.76	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.93	
For Brazed Fittings Instead Of 95/5 Solder, Add	8.50	
For Work In Restricted Working Space, Add	17.00	
22 11 16 00-0543 EA 1" Male Copper Adapter.....	79.34	44.41
For Silver Solder Instead Of 95/5 Solder, Add	10.55	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-7.26	
For Brazed Fittings Instead Of 95/5 Solder, Add	9.88	
For Work In Restricted Working Space, Add	19.76	
22 11 16 00-0544 EA 1-1/4" Male Copper Adapter.....	96.21	50.53
For Silver Solder Instead Of 95/5 Solder, Add	12.47	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-8.64	
For Brazed Fittings Instead Of 95/5 Solder, Add	11.49	
For Work In Restricted Working Space, Add	22.97	
22 11 16 00-0545 EA 1-1/2" Male Copper Adapter.....	110.26	58.19
For Silver Solder Instead Of 95/5 Solder, Add	14.24	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-9.88	
For Brazed Fittings Instead Of 95/5 Solder, Add	13.09	
For Work In Restricted Working Space, Add	26.18	
22 11 16 00-0546 EA 2" Male Copper Adapter.....	150.68	74.26
For Silver Solder Instead Of 95/5 Solder, Add	18.71	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-13.12	
For Brazed Fittings Instead Of 95/5 Solder, Add	16.77	
For Work In Restricted Working Space, Add	33.54	
22 11 16 00-0547 EA 2-1/2" Male Copper Adapter.....	264.60	96.47
For Silver Solder Instead Of 95/5 Solder, Add	27.63	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-20.43	
For Brazed Fittings Instead Of 95/5 Solder, Add	21.59	
For Work In Restricted Working Space, Add	43.19	
22 11 16 00-0548 EA 3" Male Copper Adapter.....	351.46	128.64
For Silver Solder Instead Of 95/5 Solder, Add	36.75	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-27.16	
For Brazed Fittings Instead Of 95/5 Solder, Add	28.76	
For Work In Restricted Working Space, Add	57.52	
22 11 16 00-0549 EA 4" Male Copper Adapter.....	526.13	180.45
For Silver Solder Instead Of 95/5 Solder, Add	53.37	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-39.84	
For Brazed Fittings Instead Of 95/5 Solder, Add	40.60	
For Work In Restricted Working Space, Add	81.20	
22 11 16 00-0550 Female Copper Adapters (22 11 16 00-0436)		
22 11 16 00-0551 EA 1/4" Female Copper Adapter.....	40.53	19.90
For Silver Solder Instead Of 95/5 Solder, Add	5.09	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.56	
For Brazed Fittings Instead Of 95/5 Solder, Add	4.59	
For Work In Restricted Working Space, Add	9.19	
22 11 16 00-0552 EA 3/8" Female Copper Adapter.....	47.11	24.50
For Silver Solder Instead Of 95/5 Solder, Add	6.03	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-4.19	
For Brazed Fittings Instead Of 95/5 Solder, Add	5.51	
For Work In Restricted Working Space, Add	11.03	
22 11 16 00-0553 EA 1/2" Female Copper Adapter.....	50.95	30.63
For Silver Solder Instead Of 95/5 Solder, Add	7.14	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-4.84	
For Brazed Fittings Instead Of 95/5 Solder, Add	6.89	
For Work In Restricted Working Space, Add	13.78	
22 11 16 00-0554 EA 3/4" Female Copper Adapter.....	63.51	38.28
For Silver Solder Instead Of 95/5 Solder, Add	8.84	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-6.01	
For Brazed Fittings Instead Of 95/5 Solder, Add	8.50	
For Work In Restricted Working Space, Add	17.00	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0555	EA		1" Female Copper Adapter <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	81.52 10.66 -7.37 9.88 19.76	44.41
22 11 16 00-0556	EA		1-1/4" Female Copper Adapter <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	99.55 12.63 -8.81 11.49 22.97	50.53
22 11 16 00-0557	EA		1-1/2" Female Copper Adapter <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	123.25 14.89 -10.53 13.09 26.18	58.19
22 11 16 00-0558	EA		2" Female Copper Adapter <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	160.59 19.21 -13.62 16.77 33.54	74.26
22 11 16 00-0559	EA		2-1/2" Female Copper Adapter <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	302.77 28.39 -21.76 19.88 39.76	88.82
22 11 16 00-0560	EA		3" Female Copper Adapter <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	478.51 43.10 -33.51 28.76 57.52	128.64
22 11 16 00-0561			Wrot Copper, Solder Union (22 11 16 00-0436)		
22 11 16 00-0562	EA		1/4" Wrot Copper, Solder Union <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	58.64 6.61 -4.77 5.51 11.03	24.50
22 11 16 00-0563	EA		3/8" Wrot Copper, Solder Union <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	66.96 7.79 -5.57 6.66 13.32	29.55
22 11 16 00-0564	EA		1/2" Wrot Copper, Solder Union <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	69.07 8.97 -6.21 8.27 16.54	36.75
22 11 16 00-0565	EA		3/4" Wrot Copper, Solder Union <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	79.93 10.28 -7.14 9.42 18.84	41.96
22 11 16 00-0566	EA		1" Wrot Copper, Solder Union <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	104.50 12.73 -8.98 11.26 22.51	50.07
22 11 16 00-0567	EA		1-1/4" Wrot Copper, Solder Union <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	125.35 14.54 -10.40 12.40 24.81	55.13
22 11 16 00-0568	EA		1-1/2" Wrot Copper, Solder Union <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	152.02 16.79 -12.20 13.78 27.56	61.26
22 11 16 00-0569	EA		2" Wrot Copper, Solder Union <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	212.77 21.66 -16.15 16.54 33.08	73.50
22 11 16 00-0570	EA		2-1/2" Wrot Copper, Solder Union <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	400.81 32.16 -26.10 18.19 36.37	80.92
22 11 16 00-0571	EA		3" Wrot Copper, Solder Union <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	895.45 61.97 -53.37 25.80 51.60	114.76
22 11 16 00-0572			Cast Bronze, Solder Union (22 11 16 00-0436)		

22 Plumbing
22 10 Plumbing Piping
22 11 Facility Water Distribution



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0573	EA	1/4"	Cast Bronze, Solder Union For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	66.71 7.01 -5.17 5.51 11.03	24.50
22 11 16 00-0574	EA	3/8"	Cast Bronze, Solder Union For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	74.58 8.17 -5.95 6.66 13.32	29.55
22 11 16 00-0575	EA	1/2"	Cast Bronze, Solder Union For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	71.19 9.07 -6.32 8.27 16.54	36.75
22 11 16 00-0576	EA	3/4"	Cast Bronze, Solder Union For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	82.93 10.43 -7.29 9.42 18.84	41.96
22 11 16 00-0577	EA	1"	Cast Bronze, Solder Union For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	109.70 12.99 -9.24 11.26 22.51	50.07
22 11 16 00-0578	EA	1-1/4"	Cast Bronze, Solder Union For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	139.57 15.25 -11.11 12.40 24.81	55.13
22 11 16 00-0579	EA	1-1/2"	Cast Bronze, Solder Union For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	166.86 17.53 -12.94 13.78 27.56	61.26
22 11 16 00-0580	EA	2"	Cast Bronze, Solder Union For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	238.03 22.93 -17.41 16.54 33.08	73.50
22 11 16 00-0581	EA	2-1/2"	Cast Bronze, Solder Union For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	400.80 32.16 -26.10 18.19 36.37	80.92
22 11 16 00-0582	EA	3"	Cast Bronze, Solder Union For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	895.45 61.97 -53.37 25.80 51.60	114.76
22 11 16 00-0583	Cast Bronze, Solder X Female Threaded Union (22 11 16 00-0496)				
22 11 16 00-0584	EA	1/4"	Cast Bronze, Solder X Female Threaded Union For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	77.61 7.56 -5.72 5.51 11.03	24.50
22 11 16 00-0585	EA	3/8"	Cast Bronze, Solder X Female Threaded Union For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	86.68 8.78 -6.55 6.66 13.32	29.55
22 11 16 00-0586	EA	1/2"	Cast Bronze, Solder X Female Threaded Union For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	88.71 9.95 -7.19 8.27 16.54	36.75
22 11 16 00-0587	EA	3/4"	Cast Bronze, Solder X Female Threaded Union For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	108.56 11.71 -8.57 9.42 18.84	41.96
22 11 16 00-0588	EA	1"	Cast Bronze, Solder X Female Threaded Union For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	170.24 16.02 -12.26 11.26 22.51	50.07
22 11 16 00-0589	EA	1-1/4"	Cast Bronze, Solder X Female Threaded Union For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	260.10 21.27 -17.14 12.40 24.81	55.13



	Plumbing	22
	Plumbing Piping	22 10
	Facility Water Distribution	22 11

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0590	EA		1-1/2" Cast Bronze, Solder X Female Threaded Union <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	316.64 25.02 -20.43 13.78 27.56	61.26
22 11 16 00-0591	EA		2" Cast Bronze, Solder X Female Threaded Union <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	490.70 35.56 -30.05 16.54 33.08	73.50
22 11 16 00-0592	EA		2-1/2" Cast Bronze, Solder X Female Threaded Union <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	842.46 54.25 -48.19 18.19 36.37	80.92
22 11 16 00-0593 Cast Bronze, Solder X Male Threaded Union (22 11 16 00-0436)					
22 11 16 00-0594	EA		1/4" Cast Bronze, Solder X Male Threaded Union..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	67.87 7.07 -5.23 5.51 11.03	24.50
22 11 16 00-0595	EA		3/8" Cast Bronze, Solder X Male Threaded Union..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	80.73 8.48 -6.26 6.66 13.32	29.55
22 11 16 00-0596	EA		1/2" Cast Bronze, Solder X Male Threaded Union..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	81.63 9.59 -6.84 8.27 16.54	36.75
22 11 16 00-0597	EA		3/4" Cast Bronze, Solder X Male Threaded Union..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	102.57 11.41 -8.27 9.42 18.84	41.96
22 11 16 00-0598	EA		1" Cast Bronze, Solder X Male Threaded Union..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	172.98 16.15 -12.40 11.26 22.51	50.07
22 11 16 00-0599	EA		1-1/4" Cast Bronze, Solder X Male Threaded Union..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	204.18 18.48 -14.34 12.40 24.81	55.13
22 11 16 00-0600	EA		1-1/2" Cast Bronze, Solder X Male Threaded Union..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	219.49 20.16 -15.57 13.78 27.56	61.26
22 11 16 00-0601	EA		2" Cast Bronze, Solder X Male Threaded Union..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	306.26 26.34 -20.83 16.54 33.08	73.50
22 11 16 00-0602	EA		2-1/2" Cast Bronze, Solder X Male Threaded Union..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	695.67 46.91 -40.85 18.19 36.37	80.92
22 11 16 00-0603 Copper Caps (22 11 16 00-0436)					
22 11 16 00-0604	EA		1/4" Copper Cap <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	11.44 1.58 -1.08 1.52 3.03	6.73
22 11 16 00-0605	EA		3/8" Copper Cap <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	14.26 1.93 -1.32 1.82 3.64	7.96
22 11 16 00-0606	EA		1/2" Copper Cap <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	17.77 2.56 -1.72 2.50 5.00	11.03
22 11 16 00-0607	EA		3/4" Copper Cap <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	22.77 3.21 -2.17 3.11 6.22	13.63



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0608 EA 1" Copper Cap	29.56	16.38
For Silver Solder Instead Of 95/5 Solder, Add	3.95	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-2.72	
For Brazed Fittings Instead Of 95/5 Solder, Add	3.71	
For Work In Restricted Working Space, Add	7.43	
22 11 16 00-0609 EA 1-1/4" Copper Cap	33.21	17.61
For Silver Solder Instead Of 95/5 Solder, Add	4.34	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.00	
For Brazed Fittings Instead Of 95/5 Solder, Add	4.02	
For Work In Restricted Working Space, Add	8.03	
22 11 16 00-0610 EA 1-1/2" Copper Cap	38.67	19.29
For Silver Solder Instead Of 95/5 Solder, Add	4.86	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.40	
For Brazed Fittings Instead Of 95/5 Solder, Add	4.40	
For Work In Restricted Working Space, Add	8.79	
22 11 16 00-0611 EA 2" Copper Cap	47.54	20.02
For Silver Solder Instead Of 95/5 Solder, Add	5.40	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.89	
For Brazed Fittings Instead Of 95/5 Solder, Add	4.54	
For Work In Restricted Working Space, Add	9.07	
22 11 16 00-0612 EA 2-1/2" Copper Cap	86.06	23.40
For Silver Solder Instead Of 95/5 Solder, Add	7.86	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-6.08	
For Brazed Fittings Instead Of 95/5 Solder, Add	5.33	
For Work In Restricted Working Space, Add	10.66	
22 11 16 00-0613 EA 3" Copper Cap	117.83	30.03
For Silver Solder Instead Of 95/5 Solder, Add	10.44	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-8.16	
For Brazed Fittings Instead Of 95/5 Solder, Add	6.82	
For Work In Restricted Working Space, Add	13.64	
22 11 16 00-0614 EA 4" Copper Cap	205.39	45.39
For Silver Solder Instead Of 95/5 Solder, Add	17.15	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-13.71	
For Brazed Fittings Instead Of 95/5 Solder, Add	10.32	
For Work In Restricted Working Space, Add	20.64	
22 11 16 00-0615 EA 5" Cast Bronze Cap	1,066.05	69.93
For Silver Solder Instead Of 95/5 Solder, Add	63.90	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-58.60	
For Brazed Fittings Instead Of 95/5 Solder, Add	15.89	
For Work In Restricted Working Space, Add	31.79	
22 11 16 00-0616 EA 6" Cast Bronze Cap	2,067.03	101.78
For Silver Solder Instead Of 95/5 Solder, Add	118.77	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-111.06	
For Brazed Fittings Instead Of 95/5 Solder, Add	23.12	
For Work In Restricted Working Space, Add	46.25	
22 11 16 00-0617 EA 8" Cast Bronze Cap	2,633.28	135.62
For Silver Solder Instead Of 95/5 Solder, Add	152.22	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-141.94	
For Brazed Fittings Instead Of 95/5 Solder, Add	30.83	
For Work In Restricted Working Space, Add	61.67	
22 11 16 00-0618 Copper Crosses (22 11 16 00-0436)		
22 11 16 00-0619 EA 1/2" Copper Cross	110.28	62.03
For Silver Solder Instead Of 95/5 Solder, Add	14.82	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-10.17	
For Brazed Fittings Instead Of 95/5 Solder, Add	13.96	
For Work In Restricted Working Space, Add	27.92	
22 11 16 00-0620 EA 3/4" Copper Cross	149.09	77.12
For Silver Solder Instead Of 95/5 Solder, Add	19.01	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-13.23	
For Brazed Fittings Instead Of 95/5 Solder, Add	17.34	
For Work In Restricted Working Space, Add	34.68	
22 11 16 00-0621 EA 1" Copper Cross	195.07	92.06
For Silver Solder Instead Of 95/5 Solder, Add	23.57	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-16.66	
For Brazed Fittings Instead Of 95/5 Solder, Add	20.73	
For Work In Restricted Working Space, Add	41.45	
22 11 16 00-0622 EA 1-1/4" Copper Cross	231.22	99.67
For Silver Solder Instead Of 95/5 Solder, Add	26.51	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-19.03	
For Brazed Fittings Instead Of 95/5 Solder, Add	22.42	
For Work In Restricted Working Space, Add	44.83	
22 11 16 00-0623 EA 1-1/2" Copper Cross	280.10	108.97
For Silver Solder Instead Of 95/5 Solder, Add	30.36	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-22.18	
For Brazed Fittings Instead Of 95/5 Solder, Add	24.53	
For Work In Restricted Working Space, Add	49.06	
22 11 16 00-0624 EA 2" Copper Cross	403.49	122.23
For Silver Solder Instead Of 95/5 Solder, Add	38.50	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-29.34	
For Brazed Fittings Instead Of 95/5 Solder, Add	27.49	
For Work In Restricted Working Space, Add	54.98	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0625 EA 2-1/2" Copper Cross <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	710.61 55.83 -45.68 30.45 60.91	135.34
22 11 16 00-0626 Cast Bronze Crosses (22 11 16 00-0436)		
22 11 16 00-0627 EA 3/8" Cast Bronze Cross <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	90.66 11.30 -7.92 10.15 20.30	45.11
22 11 16 00-0628 EA 1/2" Cast Bronze Cross <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	113.73 14.99 -10.34 13.96 27.92	62.03
22 11 16 00-0629 EA 3/4" Cast Bronze Cross <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	155.79 19.35 -13.57 17.34 34.68	77.12
22 11 16 00-0630 EA 1" Cast Bronze Cross <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	206.43 24.14 -17.23 20.73 41.45	92.06
22 11 16 00-0631 EA 1-1/4" Cast Bronze Cross <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	247.57 27.32 -19.85 22.42 44.83	99.67
22 11 16 00-0632 EA 1-1/2" Cast Bronze Cross <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	303.41 31.52 -23.35 24.53 49.06	108.97
22 11 16 00-0633 EA 2" Cast Bronze Cross <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	441.01 40.38 -31.21 27.49 54.98	122.23
22 11 16 00-0634 EA 2-1/2" Cast Bronze Cross <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	812.13 60.91 -50.76 30.45 60.91	135.34
22 11 16 00-0635 Flexible Corrugated Copper Supply Line (22 11 16 00-0436)		
22 11 16 00-0636 EA 3/4" Threaded x 3/4" Solder x 18" Long, Flexible Corrugated Copper Supply Line	114.67	41.96
22 11 16 00-0637 EA 3/4" Threaded x 3/4" Solder x 24" Long, Flexible Corrugated Copper Supply Line	120.91	41.96
22 11 16 00-0638 EA 3/4" Threaded x 3/4" Threaded x 12" Long, Flexible Corrugated Copper Supply Line	103.44	41.96
22 11 16 00-0639 EA 3/4" Threaded x 3/4" Threaded x 15" Long, Flexible Corrugated Copper Supply Line	110.51	41.96
22 11 16 00-0640 EA 3/4" Threaded x 3/4" Threaded x 18" Long, Flexible Corrugated Copper Supply Line	116.75	41.96
22 11 16 00-0641 EA 3/4" Threaded x 3/4" Threaded x 24" Long, Flexible Corrugated Copper Supply Line	120.91	41.96
22 11 16 00-0642 Crimped Copper Fittings (22 11 16 00-0368)		
Note: Viega ProPress type. Includes factory installed ethylene propylene diene monomer (EPDM) sealing elements.		
22 11 16 00-0643 Crimped Copper 90 Degree Elbows (22 11 16 00-0642)		
22 11 16 00-0644 EA 1/2" Crimped Copper 90 Degree Elbow	32.87	18.38
22 11 16 00-0645 EA 3/4" Crimped Copper 90 Degree Elbow	40.39	20.98
22 11 16 00-0646 EA 1" Crimped Copper 90 Degree Elbow	55.53	24.96
22 11 16 00-0647 EA 1-1/4" Crimped Copper 90 Degree Elbow	77.72	27.56
22 11 16 00-0648 EA 1-1/2" Crimped Copper 90 Degree Elbow	114.83	30.63
22 11 16 00-0649 EA 2" Crimped Copper 90 Degree Elbow	150.87	36.75
22 11 16 00-0650 EA 2-1/2" Crimped Copper 90 Degree Elbow	342.41	42.87
22 11 16 00-0651 EA 3" Crimped Copper 90 Degree Elbow	426.45	50.99
22 11 16 00-0652 EA 4" Crimped Copper 90 Degree Elbow	533.94	67.38
22 11 16 00-0653 Crimped Copper 45 Degree Elbows (22 11 16 00-0642)		
22 11 16 00-0654 EA 1/2" Crimped Copper 45 Degree Elbow	33.74	18.38
22 11 16 00-0655 EA 3/4" Crimped Copper 45 Degree Elbow	38.98	20.98
22 11 16 00-0656 EA 1" Crimped Copper 45 Degree Elbow	61.90	24.96
22 11 16 00-0657 EA 1-1/4" Crimped Copper 45 Degree Elbow	76.31	27.56
22 11 16 00-0658 EA 1-1/2" Crimped Copper 45 Degree Elbow	102.65	30.63
22 11 16 00-0659 EA 2" Crimped Copper 45 Degree Elbow	134.45	36.75
22 11 16 00-0660 EA 2-1/2" Crimped Copper 45 Degree Elbow	248.01	42.87
22 11 16 00-0661 EA 3" Crimped Copper 45 Degree Elbow	339.03	50.99



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0662 EA 4" Crimped Copper 45 Degree Elbow	465.56	67.38
22 11 16 00-0663 Crimped Copper Straight Tees (22 11 16 00-0642)		
22 11 16 00-0664 EA 1/2" Crimped Copper Straight Tee	49.46	27.56
22 11 16 00-0665 EA 3/4" Crimped Copper Straight Tee	68.66	36.29
22 11 16 00-0666 EA 1" Crimped Copper Straight Tee	86.27	40.27
22 11 16 00-0667 EA 1-1/4" Crimped Copper Straight Tee	105.65	41.34
22 11 16 00-0668 EA 1-1/2" Crimped Copper Straight Tee	155.22	47.01
22 11 16 00-0669 EA 2" Crimped Copper Straight Tee	187.43	55.13
22 11 16 00-0670 EA 2-1/2" Crimped Copper Straight Tee	440.06	64.31
22 11 16 00-0671 EA 3" Crimped Copper Straight Tee	544.33	76.57
22 11 16 00-0672 EA 4" Crimped Copper Straight Tee	754.23	101.06
22 11 16 00-0673 Crimped Copper Reducing Tees (22 11 16 00-0642)		
22 11 16 00-0674 EA 3/4" Crimped Copper Reducing Tee	61.43	26.19
22 11 16 00-0675 EA 1" Crimped Copper Reducing Tee	90.83	34.46
22 11 16 00-0676 EA 1-1/4" Crimped Copper Reducing Tee	97.34	38.28
22 11 16 00-0677 EA 1-1/2" Crimped Copper Reducing Tee	134.22	39.35
22 11 16 00-0678 EA 2" Crimped Copper Reducing Tee	162.13	44.56
22 11 16 00-0679 EA 2-1/2" Crimped Copper Reducing Tee	480.19	50.53
22 11 16 00-0680 EA 3" Crimped Copper Reducing Tee	585.98	61.26
22 11 16 00-0681 EA 4" Crimped Copper Reducing Tee	684.65	81.62
22 11 16 00-0682 Crimped Copper Couplings (22 11 16 00-0642)		
22 11 16 00-0683 EA 1/2" Crimped Copper Coupling	32.34	18.38
22 11 16 00-0684 EA 3/4" Crimped Copper Coupling	38.63	20.98
22 11 16 00-0685 EA 1" Crimped Copper Coupling	52.16	24.96
22 11 16 00-0686 EA 1-1/4" Crimped Copper Coupling	59.54	27.56
22 11 16 00-0687 EA 1-1/2" Crimped Copper Coupling	79.85	30.63
22 11 16 00-0688 EA 2" Crimped Copper Coupling	98.41	36.75
22 11 16 00-0689 EA 2-1/2" Crimped Copper Coupling	202.82	42.87
22 11 16 00-0690 EA 3" Crimped Copper Coupling	252.96	50.99
22 11 16 00-0691 EA 4" Crimped Copper Coupling	345.99	67.38
22 11 16 00-0692 Crimped Copper Reducing Couplings (22 11 16 00-0642)		
22 11 16 00-0693 EA 3/4" Crimped Copper Reducing Coupling	47.92	17.46
22 11 16 00-0694 EA 1" Crimped Copper Reducing Coupling	54.78	19.90
22 11 16 00-0695 EA 1-1/4" Crimped Copper Reducing Coupling	71.89	23.73
22 11 16 00-0696 EA 1-1/2" Crimped Copper Reducing Coupling	92.69	26.19
22 11 16 00-0697 EA 2" Crimped Copper Reducing Coupling	103.70	29.09
22 11 16 00-0698 EA 2-1/2" Crimped Copper FTG x C Reducing Coupling	215.68	34.76
22 11 16 00-0699 EA 3" Crimped Copper FTG x C Reducing Coupling	269.96	40.88
22 11 16 00-0700 EA 4" Crimped Copper FTG x C Reducing Coupling	350.42	54.06
22 11 16 00-0701 Crimped Copper Male Adapters (22 11 16 00-0642)		
22 11 16 00-0702 EA 1/2" Crimped Copper Male Adapter	33.40	18.38
22 11 16 00-0703 EA 3/4" Crimped Copper Male Adapter	41.98	20.98
22 11 16 00-0704 EA 1" Crimped Copper Male Adapter	56.94	24.96
22 11 16 00-0705 EA 1-1/4" Crimped Copper Male Adapter	83.90	27.56
22 11 16 00-0706 EA 1-1/2" Crimped Copper Male Adapter	105.65	30.63
22 11 16 00-0707 EA 2" Crimped Copper Male Adapter	170.11	36.75
22 11 16 00-0708 EA 2-1/2" Crimped Copper Male Adapter	342.41	42.87
22 11 16 00-0709 EA 3" Crimped Copper Male Adapter	426.45	50.99
22 11 16 00-0710 EA 4" Crimped Copper Male Adapter	506.06	67.38
22 11 16 00-0711 Crimped Copper Female Adapters (22 11 16 00-0642)		
22 11 16 00-0712 EA 1/2" Crimped Copper Female Adapter	34.62	18.38
22 11 16 00-0713 EA 3/4" Crimped Copper Female Adapter	42.88	20.98
22 11 16 00-0714 EA 1" Crimped Copper Female Adapter	58.71	24.96
22 11 16 00-0715 EA 1-1/4" Crimped Copper Female Adapter	89.21	27.56
22 11 16 00-0716 EA 1-1/2" Crimped Copper Female Adapter	115.54	30.63
22 11 16 00-0717 EA 2" Crimped Copper Female Adapter	173.30	36.75
22 11 16 00-0718 Crimped Copper Caps (22 11 16 00-0642)		
22 11 16 00-0719 EA 1/2" Crimped Copper Cap	24.02	9.19
22 11 16 00-0720 EA 3/4" Crimped Copper Cap	33.38	10.72
22 11 16 00-0721 EA 1" Crimped Copper Cap	45.05	12.25
22 11 16 00-0722 EA 1-1/4" Crimped Copper Cap	50.88	13.78
22 11 16 00-0723 EA 1-1/2" Crimped Copper Cap	70.54	15.77
22 11 16 00-0724 EA 2" Crimped Copper Cap	84.43	18.38
22 11 16 00-0725 EA 2-1/2" Crimped Copper Cap	214.00	21.44
22 11 16 00-0726 EA 3" Crimped Copper Cap	268.41	25.57
22 11 16 00-0727 EA 4" Crimped Copper Cap	357.20	33.68



	Plumbing	22
	Plumbing Piping	22 10
	Facility Water Distribution	22 11

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0728 C x F NPT Crimped Bronze Unions <small>(22 11 16 00-0642)</small>		
22 11 16 00-0729 EA 1/2" C x F NPT Crimped Bronze Union.....	67.55	24.96
22 11 16 00-0730 EA 3/4" C x F NPT Crimped Bronze Union.....	84.59	30.78
22 11 16 00-0731 EA 1" C x F NPT Crimped Bronze Union.....	119.23	36.90
22 11 16 00-0732 EA 1-1/4" C x F NPT Crimped Bronze Union.....	144.92	42.57
22 11 16 00-0733 EA 1-1/2" C x F NPT Crimped Bronze Union.....	189.66	41.66
22 11 16 00-0734 EA 2" C x F NPT Crimped Bronze Union.....	258.86	60.33
22 11 16 00-0735 C x C Crimped Bronze Unions <small>(22 11 16 00-0642)</small>		
22 11 16 00-0736 EA 1/2" C x C Bronze Crimped Union.....	65.00	18.38
22 11 16 00-0737 EA 3/4" C x C Bronze Crimped Union.....	80.48	20.98
22 11 16 00-0738 EA 1" C x C Bronze Crimped Union.....	115.93	24.96
22 11 16 00-0739 EA 1-1/4" C x C Bronze Crimped Union.....	153.32	27.56
22 11 16 00-0740 EA 1-1/2" C x C Bronze Crimped Union.....	198.02	30.63
22 11 16 00-0741 EA 2" C x C Bronze Crimped Union.....	303.48	36.75
22 11 16 00-0742 C x Flange Crimped Bronze Flange <small>(22 11 16 00-0642)</small>		
22 11 16 00-0743 EA 2-1/2" C x Flange Crimped Bronze Flange.....	596.07	42.87
22 11 16 00-0744 EA 3" C x Flange Crimped Bronze Flange.....	648.92	50.99
22 11 16 00-0745 EA 4" C x Flange Crimped Bronze Flange.....	741.79	67.38
22 11 16 00-0746 Field Installed FKM Seals <small>(22 11 16 00-0642)</small>		
Note: For vacuum systems. Includes removing factory installed ethylene propylene diene monomer (EPDM) seal and installing FKM seal.		
22 11 16 00-0747 EA 1/2" Field Installed FKM Seal.....	9.90	
Note: To be used in conjunction with fittings.		
22 11 16 00-0748 EA 3/4" Field Installed FKM Seal.....	12.63	
Note: To be used in conjunction with fittings.		
22 11 16 00-0749 EA 1" Field Installed FKM Seal.....	14.50	
Note: To be used in conjunction with fittings.		
22 11 16 00-0750 EA 1-1/4" Field Installed FKM Seal.....	16.70	
Note: To be used in conjunction with fittings.		
22 11 16 00-0751 EA 1-1/2" Field Installed FKM Seal.....	23.89	
Note: To be used in conjunction with fittings.		
22 11 16 00-0752 EA 2" Field Installed FKM Seal.....	26.49	
Note: To be used in conjunction with fittings.		
22 11 16 00-0753 EA 2-1/2" Field Installed FKM Seal.....	40.28	
Note: To be used in conjunction with fittings.		
22 11 16 00-0754 EA 3" Field Installed FKM Seal.....	46.16	
Note: To be used in conjunction with fittings.		
22 11 16 00-0755 EA 4" Field Installed FKM Seal.....	63.06	
Note: To be used in conjunction with fittings.		
22 11 16 00-0756 Cut And Prepare Existing In-Place Copper Pipe <small>(22 11 16 00-0368)</small>		
22 11 16 00-0757 EA Up To 1/2", Cut And Prepare Existing In Place Copper Pipe.....	15.31	
22 11 16 00-0758 EA 3/4", Cut And Prepare Existing In Place Copper Pipe.....	16.54	
22 11 16 00-0759 EA 1", Cut And Prepare Existing In Place Copper Pipe.....	18.61	
22 11 16 00-0760 EA 1-1/4", Cut And Prepare Existing In Place Copper Pipe.....	19.52	
22 11 16 00-0761 EA 1-1/2", Cut And Prepare Existing In Place Copper Pipe.....	20.67	
22 11 16 00-0762 EA 2", Cut And Prepare Existing In Place Copper Pipe.....	22.75	
22 11 16 00-0763 EA 2-1/2", Cut And Prepare Existing In Place Copper Pipe.....	24.51	
22 11 16 00-0764 EA 3", Cut And Prepare Existing In Place Copper Pipe.....	28.94	
22 11 16 00-0765 EA 4", Cut And Prepare Existing In Place Copper Pipe.....	39.05	
22 11 16 00-0766 EA 6", Cut And Prepare Existing In Place Copper Pipe.....	55.81	
22 11 16 00-0767 EA 8", Cut And Prepare Existing In Place Copper Pipe.....	74.43	
22 11 16 00-0768 Sweat Brass Companion Flanges <small>(22 11 16 00-0368)</small>		
Note: Excludes bolt and gasket sets See CSI section 23 21 13 23-0713 for Class 150 steel bolt and gasket set.		
22 11 16 00-0769 EA 1" Sweat Brass Companion Flange.....	82.80	23.54
22 11 16 00-0770 EA 1-1/4" Sweat Brass Companion Flange.....	90.40	25.94
22 11 16 00-0771 EA 1-1/2" Sweat Brass Companion Flange.....	128.37	28.20
22 11 16 00-0772 EA 2" Sweat Brass Companion Flange.....	171.13	31.29
22 11 16 00-0773 EA 2-1/2" Sweat Brass Companion Flange.....	212.22	37.64
22 11 16 00-0774 EA 3" Sweat Brass Companion Flange.....	235.27	49.34
22 11 16 00-0775 EA 4" Sweat Brass Companion Flange.....	313.14	58.79
22 11 16 00-0776 EA 5" Sweat Brass Companion Flange.....	578.38	65.67
22 11 16 00-0777 EA 6" Sweat Brass Companion Flange.....	669.11	95.41
22 11 16 00-0778 EA 8" Copper Companion Flange.....	1,533.83	136.10
22 11 16 00-0779 Brass Compression Fittings <small>(22 11 16 00-0368)</small>		
22 11 16 00-0780 Brass Compression Unions <small>(22 11 16 00-0779)</small>		
22 11 16 00-0781 EA 1/4" Brass Compression Union.....	25.88	16.54



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0782	EA		3/8" Brass Compression Union.....	26.18	16.54
22 11 16 00-0783	EA		1/2" Brass Compression Union.....	27.09	16.54
22 11 16 00-0784	EA		5/8" Brass Compression Union.....	27.52	16.54
22 11 16 00-0785	EA		3/4" Brass Compression Union.....	35.67	16.54
22 11 16 00-0786	EA		3/8" x 1/4" Brass Compression Union.....	26.38	16.54
22 11 16 00-0787	EA		1/2" x 3/8" Brass Compression Union.....	27.16	16.54
22 11 16 00-0788	EA		5/8" x 3/8" Brass Compression Union.....	27.70	16.54
22 11 16 00-0789	EA		5/8" x 1/2" Brass Compression Union.....	28.57	16.54
22 11 16 00-0790			Brass Compression Union Elbows (22 11 16 00-0779)		
22 11 16 00-0791	EA		1/4" Brass Compression Union Elbow.....	27.09	16.54
22 11 16 00-0792	EA		3/8" Brass Compression Union Elbow.....	27.58	16.54
22 11 16 00-0793	EA		1/2" Brass Compression Union Elbow.....	28.67	16.54
22 11 16 00-0794	EA		5/8" Brass Compression Union Elbow.....	30.35	16.54
22 11 16 00-0795	EA		3/4" Brass Compression Union Elbow.....	36.90	16.54
22 11 16 00-0796	EA		3/8" x 1/4" Brass Compression Union Elbow.....	27.58	16.54
22 11 16 00-0797	EA		1/2" x 3/8" Brass Compression Union Elbow.....	28.67	16.54
22 11 16 00-0798	EA		5/8" x 3/8" Brass Compression Union Elbow.....	28.97	16.54
22 11 16 00-0799	EA		5/8" x 1/2" Brass Compression Union Elbow.....	33.90	16.54
22 11 16 00-0800			Brass Compression Union Tees (22 11 16 00-0779)		
22 11 16 00-0801	EA		1/4" Brass Compression Union Tee.....	27.46	16.54
22 11 16 00-0802	EA		3/8" Brass Compression Union Tee.....	28.49	16.54
22 11 16 00-0803	EA		1/2" Brass Compression Union Tee.....	29.57	16.54
22 11 16 00-0804	EA		5/8" Brass Compression Union Tee.....	32.99	16.54
22 11 16 00-0805	EA		3/4" Brass Compression Union Tee.....	44.83	16.54
22 11 16 00-0806	EA		3/8" x 3/8" x 1/4" Brass Compression Union Tee.....	29.21	16.54
22 11 16 00-0807	EA		1/2" x 1/2" x 3/8" Brass Compression Union Tee.....	34.77	16.54
22 11 16 00-0808	EA		5/8" x 5/8" x 3/8" Brass Compression Union Tee.....	34.23	16.54
22 11 16 00-0809	EA		5/8" x 5/8" x 1/2" Brass Compression Union Tee.....	34.86	16.54
22 11 16 00-0810			Brass Compression Male Connectors (22 11 16 00-0779)		
22 11 16 00-0811	EA		1/4" Brass Compression Male Connector.....	25.66	16.54
22 11 16 00-0812	EA		3/8" Brass Compression Male Connector.....	26.06	16.54
22 11 16 00-0813	EA		1/2" Brass Compression Male Connector.....	26.74	16.54
22 11 16 00-0814	EA		5/8" Brass Compression Male Connector.....	27.77	16.54
22 11 16 00-0815	EA		3/4" Brass Compression Male Connector.....	32.39	16.38
22 11 16 00-0816			Brass Compression Female Connectors (22 11 16 00-0779)		
22 11 16 00-0817	EA		1/4" Brass Compression Female Connector.....	26.09	16.54
22 11 16 00-0818	EA		3/8" Brass Compression Female Connector.....	26.61	16.54
22 11 16 00-0819	EA		1/2" Brass Compression Female Connector.....	27.48	16.54
22 11 16 00-0820	EA		5/8" Brass Compression Female Connector.....	27.98	16.54
22 11 16 00-0821	EA		3/4" Brass Compression Female Connector.....	39.94	16.23
22 11 16 00-0822			Dielectric Fittings (22 11 16 00-0368)		
22 11 16 00-0823			Copper x Female Iron Pipe Thread Dielectric Unions (22 11 16 00-0822)		
22 11 16 00-0824	EA		1/2" Copper x Female Iron Pipe Thread Dielectric Union.....	62.43	36.75
22 11 16 00-0825	EA		3/4" Copper x Female Iron Pipe Thread Dielectric Union.....	70.09	41.96
22 11 16 00-0826	EA		1" Copper x Female Iron Pipe Thread Dielectric Union.....	81.78	46.11
22 11 16 00-0827	EA		1-1/4" Copper x Female Iron Pipe Thread Dielectric Union.....	96.94	50.75
22 11 16 00-0828	EA		1-1/2" Copper x Female Iron Pipe Thread Dielectric Union.....	115.09	56.39
22 11 16 00-0829	EA		2" Copper x Female Iron Pipe Thread Dielectric Union.....	144.49	67.68
22 11 16 00-0830			Female Brass Thread x Iron Pipe Thread Dielectric Unions (22 11 16 00-0822)		
22 11 16 00-0831	EA		1/2" Female Brass Thread x Iron Pipe Thread Dielectric Union.....	67.04	36.75
22 11 16 00-0832	EA		3/4" Female Brass Thread x Iron Pipe Thread Dielectric Union.....	77.68	41.96
22 11 16 00-0833	EA		1" Female Brass Thread x Iron Pipe Thread Dielectric Union.....	91.79	46.11
22 11 16 00-0834	EA		1-1/4" Female Brass Thread x Iron Pipe Thread Dielectric Union.....	110.22	50.75
22 11 16 00-0835	EA		1-1/2" Female Brass Thread x Iron Pipe Thread Dielectric Union.....	131.52	56.39
22 11 16 00-0836	EA		2" Female Brass Thread x Iron Pipe Thread Dielectric Union.....	163.76	67.68
22 11 16 00-0837			Female Iron Pipe Thread x Iron Pipe Thread Dielectric Unions (22 11 16 00-0822)		
22 11 16 00-0838	EA		1/2" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Union.....	64.12	36.75
22 11 16 00-0839	EA		3/4" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Union.....	72.86	41.96
22 11 16 00-0840	EA		1" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Union.....	82.51	46.11
22 11 16 00-0841	EA		1-1/4" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Union.....	94.37	50.75
22 11 16 00-0842	EA		1-1/2" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Union.....	112.55	56.39
22 11 16 00-0843	EA		2" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Union.....	142.45	67.68
22 11 16 00-0844			Copper x Female Iron Pipe Thread Dielectric Flanges (22 11 16 00-0822)		



Plumbing	22	22
Plumbing Piping	22 10	
Facility Water Distribution	22 11	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0845 EA 2-1/2" Copper x Female Iron Pipe Thread Dielectric Flange.....	355.69	173.97
22 11 16 00-0846 EA 3" Copper x Female Iron Pipe Thread Dielectric Flange.....	445.81	219.08
22 11 16 00-0847 EA 4" Copper x Female Iron Pipe Thread Dielectric Flange.....	623.97	298.17
22 11 16 00-0848 Copper x Female Iron Pipe Thread x Iron Pipe Thread Dielectric Flanges (22		
<small>11 16 00-0822)</small>		
22 11 16 00-0849 EA 2-1/2" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Flange.....	357.57	173.97
22 11 16 00-0850 EA 3" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Flange.....	460.93	219.08
22 11 16 00-0851 EA 4" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Flange.....	798.32	298.17
22 11 16 00-0852 Brass Push-Fit Fittings (22 11 16)		
22 11 16 00-0853 EA 1/4" x 1/4" Brass Push-Fit Coupling.....	31.08	15.31
Note: (Sharkbite)		
22 11 16 00-0854 EA 3/8" x 3/8" Brass Push-Fit Coupling.....	37.83	16.33
Note: (Sharkbite)		
22 11 16 00-0855 EA 1/2" x 1/2" Brass Push-Fit Coupling.....	39.61	18.38
Note: (Sharkbite)		
22 11 16 00-0856 EA 5/8" x 5/8" Brass Push-Fit Coupling.....	45.17	19.60
Note: (Sharkbite)		
22 11 16 00-0857 EA 3/4" x 3/4" Brass Push-Fit Coupling.....	46.30	20.93
Note: (Sharkbite)		
22 11 16 00-0858 EA 1" x 1" Brass Push-Fit Coupling.....	63.86	25.01
Note: (Sharkbite)		
22 11 16 00-0859 EA 1/2" x 3/8" Brass Push-Fit Reducing Coupling.....	38.72	17.35
Note: (Sharkbite)		
22 11 16 00-0860 EA 3/4" x 5/8" Brass Push-Fit Reducing Coupling.....	44.52	18.99
Note: (Sharkbite)		
22 11 16 00-0861 EA 1" x 3/4" Brass Push-Fit Reducing Coupling.....	64.86	22.97
Note: (Sharkbite)		
22 11 16 00-0862 EA 1/4" x 1/4" Brass Push-Fit Elbow.....	32.25	15.31
Note: (Sharkbite)		
22 11 16 00-0863 EA 3/8" x 3/8" Brass Push-Fit Elbow.....	42.83	16.33
Note: (Sharkbite)		
22 11 16 00-0864 EA 1/2" x 1/2" Brass Push-Fit Elbow.....	40.25	18.38
Note: (Sharkbite)		
22 11 16 00-0865 EA 5/8" x 5/8" Brass Push-Fit Elbow.....	48.07	19.60
Note: (Sharkbite)		
22 11 16 00-0866 EA 3/4" x 3/4" Brass Push-Fit Elbow.....	45.47	20.93
Note: (Sharkbite)		
22 11 16 00-0867 EA 1" x 1" Brass Push-Fit Elbow.....	64.50	25.01
Note: (Sharkbite)		
22 11 16 00-0868 EA 1/2" x 3/8" Brass Push-Fit Reducing Elbow.....	38.19	17.35
Note: (Sharkbite)		
22 11 16 00-0869 EA 3/4" x 1/2" Brass Push-Fit Reducing Elbow.....	42.45	18.99
Note: (Sharkbite)		
22 11 16 00-0870 EA 1" x 3/4" Brass Push-Fit Reducing Elbow.....	79.16	22.97
Note: (Sharkbite)		
22 11 16 00-0871 EA 1/4" x 1/4" x 1/4" Brass Push-Fit Tee.....	48.86	22.97
Note: (Sharkbite)		
22 11 16 00-0872 EA 3/8" x 3/8" x 3/8" Brass Push-Fit Tee.....	60.60	24.50
Note: (Sharkbite)		
22 11 16 00-0873 EA 1/2" x 1/2" x 1/2" Brass Push-Fit Tee.....	56.91	27.56
Note: (Sharkbite)		
22 11 16 00-0874 EA 5/8" x 5/8" x 5/8" Brass Push-Fit Tee.....	70.88	29.40
Note: (Sharkbite)		
22 11 16 00-0875 EA 3/4" x 3/4" x 3/4" Brass Push-Fit Tee.....	66.17	31.39
Note: (Sharkbite)		
22 11 16 00-0876 EA 1" x 1" x 1" Brass Push-Fit Tee.....	88.98	37.51
Note: (Sharkbite)		
22 11 16 00-0877 EA 1/2" x 1/2" x 1/4" Brass Push-Fit Reducing Tee.....	62.52	26.03
Note: (Sharkbite)		
22 11 16 00-0878 EA 1/2" x 1/2" x 3/8" Brass Push-Fit Reducing Tee.....	62.97	26.54
Note: (Sharkbite)		
22 11 16 00-0879 EA 3/4" x 3/4" x 1/2" Brass Push-Fit Reducing Tee.....	63.84	30.12
Note: (Sharkbite)		
22 11 16 00-0880 EA 1" x 1" x 3/4" Brass Push-Fit Reducing Tee.....	86.08	35.48
Note: (Sharkbite)		
22 11 16 00-0881 EA 1/4" x 1/2" Brass Push-Fit Pipe To FNPT Connector.....	36.62	16.85
Note: (Sharkbite)		
22 11 16 00-0882 EA 3/8" x 1/2" Brass Push-Fit Pipe To FNPT Connector.....	36.38	17.35
Note: (Sharkbite)		
22 11 16 00-0883 EA 1/2" x 1/2" Brass Push-Fit Pipe To FNPT Connector.....	36.29	18.38
Note: (Sharkbite)		
22 11 16 00-0884 EA 3/4" x 3/4" Brass Push-Fit Pipe To FNPT Connector.....	41.52	20.93
Note: (Sharkbite)		
22 11 16 00-0885 EA 1" x 1" Brass Push-Fit Pipe To FNPT Connector.....	57.14	25.01
Note: (Sharkbite)		
22 11 16 00-0886 EA 1/4" x 1/2" Brass Push-Fit Pipe To MNPT Connector.....	32.61	16.85
Note: (Sharkbite)		
22 11 16 00-0887 EA 3/8" x 1/2" Brass Push-Fit Pipe To MNPT Connector.....	36.38	17.35
Note: (Sharkbite)		

22 Plumbing
22 10 Plumbing Piping
22 11 Facility Water Distribution



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0888	EA	1/2" x 1/2" Brass Push-Fit Pipe To MNPT Connector Note: (Sharkbite)	36.37	18.38
22 11 16 00-0889	EA	3/4" x 3/4" Brass Push-Fit Pipe To MNPT Connector Note: (Sharkbite)	41.16	20.93
22 11 16 00-0890	EA	5/8" x 3/4" Brass Push-Fit Pipe To MNPT Connector Note: (Sharkbite)	44.05	20.25
22 11 16 00-0891	EA	1" x 3/4" Brass Push-Fit Pipe To MNPT Connector Note: (Sharkbite)	52.49	22.97
22 11 16 00-0892	EA	1" x 1" Brass Push-Fit Pipe To MNPT Connector Note: (Sharkbite)	57.88	25.01
22 11 16 00-0893	EA	1/2" Brass Push-Fit Ball Valve Note: (Sharkbite)	50.15	18.38
22 11 16 00-0894	EA	3/4" Brass Push-Fit Ball Valve Note: (Sharkbite)	58.49	20.93
22 11 16 00-0895	EA	1" Brass Push-Fit Ball Valve Note: (Sharkbite)	76.53	25.01
22 11 16 00-0896	EA	1/2" Brass Push-Fit Check Valve Note: (Sharkbite)	53.38	18.38
22 11 16 00-0897	EA	3/4" Brass Push-Fit Check Valve Note: (Sharkbite)	63.93	20.93
22 11 16 00-0898	EA	1" Brass Push-Fit Check Valve Note: (Sharkbite)	104.82	25.01
22 11 16 00-0899		Copper Pipe With Fittings And Hangers Assemblies ^(22 11 16) Note: Includes hangers and all coupling, elbow, tee and reducer fittings. All fittings are based on 95/5 solder. All hangers are complete assemblies installed in accordance with MSS SP 58 and 69. Excludes insulation. Not for use where detail is available.		
22 11 16 00-0900	LF	1/2" Inside Diameter, Type L, Copper Pipe/Tubing With Fittings Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> 2.00 <i>For Type M Tubing Instead Of Type L, Deduct</i> -1.68 <i>For Silver Solder Instead Of 95/5 Solder, Add</i> 3.89 <i>For For Brazed Fittings, Add</i> 0.96 <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> -2.69 <i>For Work In Restricted Working Space, Add</i> 7.19	29.94	4.29
22 11 16 00-0901	LF	3/4" Inside Diameter, Type L, Copper Pipe/Tubing With Fittings Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> 2.40 <i>For Type M Tubing Instead Of Type L, Deduct</i> -1.99 <i>For Silver Solder Instead Of 95/5 Solder, Add</i> 4.45 <i>For For Brazed Fittings, Add</i> 1.09 <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> -3.09 <i>For Work In Restricted Working Space, Add</i> 8.15	34.69	5.51
22 11 16 00-0902	LF	1" Inside Diameter, Type L, Copper Pipe/Tubing With Fittings Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> 2.86 <i>For Type M Tubing Instead Of Type L, Deduct</i> -2.32 <i>For Silver Solder Instead Of 95/5 Solder, Add</i> 4.76 <i>For For Brazed Fittings, Add</i> 1.14 <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> -3.34 <i>For Work In Restricted Working Space, Add</i> 8.54	38.33	6.58
22 11 16 00-0903	LF	1-1/4" Inside Diameter, Type L, Copper Pipe/Tubing With Fittings Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> 3.58 <i>For Type M Tubing Instead Of Type L, Deduct</i> -2.83 <i>For Silver Solder Instead Of 95/5 Solder, Add</i> 5.12 <i>For For Brazed Fittings, Add</i> 1.18 <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> -3.64 <i>For Work In Restricted Working Space, Add</i> 8.87 <i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i> -1.37	43.28	7.66
22 11 16 00-0904	LF	1-1/2" Inside Diameter, Type L, Copper Pipe/Tubing With Fittings Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> 4.18 <i>For Type M Tubing Instead Of Type L, Deduct</i> -3.27 <i>For Silver Solder Instead Of 95/5 Solder, Add</i> 5.57 <i>For For Brazed Fittings, Add</i> 1.26 <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> -3.99 <i>For Work In Restricted Working Space, Add</i> 9.46 <i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i> -1.67	48.26	8.73
22 11 16 00-0905	LF	2" Inside Diameter, Type L, Copper Pipe/Tubing With Fittings Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> 5.77 <i>For Type M Tubing Instead Of Type L, Deduct</i> -4.42 <i>For Silver Solder Instead Of 95/5 Solder, Add</i> 6.68 <i>For For Brazed Fittings, Add</i> 1.45 <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> -4.87 <i>For Work In Restricted Working Space, Add</i> 10.88 <i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i> -2.48	61.04	10.88



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0906 LF 2-1/2" Inside Diameter, Type L, Copper Pipe/Tubing With Fittings Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> <i>For Type M Tubing Instead Of Type L, Deduct</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For For Brazed Fittings, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i>	75.19 7.88 -5.91 7.65 1.56 -5.70 11.67 -3.63	13.11
22 11 16 00-0907 LF 3" Inside Diameter, Type L, Copper Pipe/Tubing With Fittings Assembly..... Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> <i>For Type M Tubing Instead Of Type L, Deduct</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For For Brazed Fittings, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i>	91.67 10.32 -7.63 8.80 1.69 -6.69 12.64 -4.95	15.22
22 11 16 00-0908 LF 4" Inside Diameter, Type L, Copper Pipe/Tubing With Fittings Assembly..... Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> <i>For Type M Tubing Instead Of Type L, Deduct</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For For Brazed Fittings, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i>	143.25 17.66 -12.83 12.61 2.18 -9.89 16.34 -8.88	20.16
22 11 16 00-0909 LF 5" Inside Diameter, Type L, Copper Pipe/Tubing With Fittings Assembly..... Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> <i>For Type M Tubing Instead Of Type L, Deduct</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For For Brazed Fittings, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i>	255.25 35.12 -25.04 19.75 2.80 -16.26 20.98 -18.53	25.10
22 11 16 00-0910 LF 6" Inside Diameter, Type L, Copper Pipe/Tubing With Fittings Assembly..... Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> <i>For Type M Tubing Instead Of Type L, Deduct</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For For Brazed Fittings, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i>	333.65 46.25 -32.93 25.56 3.55 -21.12 26.64 -24.48	30.31
22 11 16 00-0911 LF 8" Inside Diameter, Type L, Copper Pipe/Tubing With Fittings Assembly..... Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> <i>For Type M Tubing Instead Of Type L, Deduct</i> <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For For Brazed Fittings, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Work In Restricted Working Space, Add</i> <i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i>	725.78 111.74 -78.26 47.33 4.41 -41.81 33.11 -61.54	36.23
22 11 16 00-0912 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe And Fittings (22 11 16) Note: Socket weld.		
22 11 16 00-0913 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe And Fittings (22 11 16 00-0912)		
22 11 16 00-0914 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pipe (22 11 16 00-0913)		
22 11 16 00-0915 LF 1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	8.87 1.69	2.25
22 11 16 00-0916 LF 3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	10.36 1.78	2.37
22 11 16 00-0917 LF 1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	12.89 1.91	2.55
22 11 16 00-0918 LF 1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	15.97 2.09	2.78
22 11 16 00-0919 LF 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	18.58 2.31	3.08
22 11 16 00-0920 LF 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	23.68 2.58	3.44
22 11 16 00-0921 LF 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	32.85 2.93	3.90
22 11 16 00-0922 LF 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	42.37 3.46	4.63

22 Plumbing
22 10 Plumbing Piping
22 11 Facility Water Distribution



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0923	LF		4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	59.42 4.26	5.68
22 11 16 00-0924	LF		6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	105.53 5.42	7.22
22 11 16 00-0925	LF		8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	152.69 7.10	9.47
22 11 16 00-0926			Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbows <small>(22 11 16 00-0913)</small>		
22 11 16 00-0927	EA		1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	31.86 8.04	10.72
22 11 16 00-0928	EA		3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	41.73 10.15	13.54
22 11 16 00-0929	EA		1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	54.91 12.73	16.91
22 11 16 00-0930	EA		1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	77.02 15.90	21.15
22 11 16 00-0931	EA		1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	85.76 17.60	23.40
22 11 16 00-0932	EA		2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	101.96 19.62	23.40
22 11 16 00-0933	EA		2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	169.64 22.33	29.74
22 11 16 00-0934	EA		3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	191.41 26.39	35.25
22 11 16 00-0935	EA		4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	280.78 32.48	43.28
22 11 16 00-0936	EA		6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	353.83 41.28	54.98
22 11 16 00-0937	EA		8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	709.68 54.14	72.18
22 11 16 00-0938			Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbows <small>(22 11 16 00-0913)</small>		
22 11 16 00-0939	EA		1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	34.39 8.04	10.72
22 11 16 00-0940	EA		3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	44.76 10.15	13.54
22 11 16 00-0941	EA		1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	59.84 12.73	16.91
22 11 16 00-0942	EA		1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	83.49 15.90	21.15
22 11 16 00-0943	EA		1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	93.65 17.60	23.40
22 11 16 00-0944	EA		2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	104.64 19.62	26.23
22 11 16 00-0945	EA		2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	171.33 22.33	29.74
22 11 16 00-0946	EA		3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	191.20 26.39	35.25
22 11 16 00-0947	EA		4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	249.88 32.48	43.28
22 11 16 00-0948	EA		6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	411.78 41.28	54.98
22 11 16 00-0949	EA		8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	750.73 54.14	72.18
22 11 16 00-0950			Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tees <small>(22 11 16 00-0913)</small>		
22 11 16 00-0951	EA		1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee <i>For Work In Restricted Working Space, Add</i>	49.41 12.05	16.07
22 11 16 00-0952	EA		3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee <i>For Work In Restricted Working Space, Add</i>	65.47 15.23	20.30
22 11 16 00-0953	EA		1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee <i>For Work In Restricted Working Space, Add</i>	81.82 19.12	25.52
22 11 16 00-0954	EA		1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee <i>For Work In Restricted Working Space, Add</i>	117.67 23.85	31.86
22 11 16 00-0955	EA		1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee <i>For Work In Restricted Working Space, Add</i>	131.70 26.39	35.25
22 11 16 00-0956	EA		2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee <i>For Work In Restricted Working Space, Add</i>	163.35 29.44	39.20
22 11 16 00-0957	EA		2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee <i>For Work In Restricted Working Space, Add</i>	218.81 33.50	44.69
22 11 16 00-0958	EA		3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee <i>For Work In Restricted Working Space, Add</i>	248.55 39.59	52.72
22 11 16 00-0959	EA		4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee <i>For Work In Restricted Working Space, Add</i>	300.14 48.72	64.99
22 11 16 00-0960	EA		6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee <i>For Work In Restricted Working Space, Add</i>	475.51 61.92	82.62
22 11 16 00-0961	EA		8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee <i>For Work In Restricted Working Space, Add</i>	1,041.14 81.20	108.27



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0962 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Crosses <small>(22 11 16 00-0913)</small>		
22 11 16 00-0963 EA 1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	61.52 16.07	21.43
22 11 16 00-0964 EA 3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	80.36 20.30	27.07
22 11 16 00-0965 EA 1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	100.46 25.46	33.98
22 11 16 00-0966 EA 1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	138.89 31.81	42.44
22 11 16 00-0967 EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	154.97 35.19	46.95
22 11 16 00-0968 EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	187.01 39.25	52.30
22 11 16 00-0969 EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	241.17 44.66	59.49
22 11 16 00-0970 EA 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	276.37 52.79	70.35
22 11 16 00-0971 EA 4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	335.18 64.97	86.56
22 11 16 00-0972 EA 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	507.00 82.56	110.11
22 11 16 00-0973 EA 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	1,024.53 108.27	144.36
22 11 16 00-0974 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld Reducing Inserts <small>(22 11 16 00-0913)</small>		
22 11 16 00-0975 EA 3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	27.85 7.45	9.86
22 11 16 00-0976 EA 1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	39.34 10.03	13.39
22 11 16 00-0977 EA 1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert <i>For Work In Restricted Working Space, Add</i>	70.74 13.11	17.48
22 11 16 00-0978 EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert <i>For Work In Restricted Working Space, Add</i>	80.26 14.51	19.32
22 11 16 00-0979 EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	95.90 16.20	21.57
22 11 16 00-0980 EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert <i>For Work In Restricted Working Space, Add</i>	103.37 18.44	24.53
22 11 16 00-0981 EA 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	126.26 21.78	29.04
22 11 16 00-0982 EA 4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	175.37 26.82	35.67
22 11 16 00-0983 EA 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	296.64 34.05	45.39
22 11 16 00-0984 EA 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	699.93 44.66	59.49
22 11 16 00-0985 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Thread Reducing Inserts <small>(22 11 16 00-0913)</small>		
22 11 16 00-0986 EA 1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert <i>For Work In Restricted Working Space, Add</i>	37.48 5.29	7.05
22 11 16 00-0987 EA 3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert <i>For Work In Restricted Working Space, Add</i>	46.23 7.45	9.86
22 11 16 00-0988 EA 1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	56.37 10.03	13.39
22 11 16 00-0989 EA 1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert <i>For Work In Restricted Working Space, Add</i>	69.26 13.11	17.48
22 11 16 00-0990 EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert <i>For Work In Restricted Working Space, Add</i>	82.44 14.51	19.32
22 11 16 00-0991 EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	106.74 16.20	21.57
22 11 16 00-0992 EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert <i>For Work In Restricted Working Space, Add</i>	174.21 18.44	24.53
22 11 16 00-0993 EA 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	367.07 21.78	29.04
22 11 16 00-0994 EA 4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	553.49 26.82	35.67
22 11 16 00-0995 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters <small>(22 11 16 00-0913)</small>		
22 11 16 00-0996 EA 1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	25.22 5.29	7.05
22 11 16 00-0997 EA 3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	35.10 7.45	9.86



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0998 EA 1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	50.74 10.03	13.39
22 11 16 00-0999 EA 1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	69.26 13.11	17.48
22 11 16 00-1000 EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	82.94 14.51	19.32
22 11 16 00-1001 EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	100.76 16.20	21.57
22 11 16 00-1002 EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	149.98 18.44	24.53
22 11 16 00-1003 EA 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	179.63 21.78	29.04
22 11 16 00-1004 EA 4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	270.35 26.82	35.67
22 11 16 00-1005 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters (22 11 16 00-0913)		
22 11 16 00-1006 EA 1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters <i>For Work In Restricted Working Space, Add</i>	28.12 5.29	7.05
22 11 16 00-1007 EA 3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters <i>For Work In Restricted Working Space, Add</i>	36.02 7.45	9.86
22 11 16 00-1008 EA 1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters <i>For Work In Restricted Working Space, Add</i>	50.98 10.03	13.39
22 11 16 00-1009 EA 1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters <i>For Work In Restricted Working Space, Add</i>	70.11 13.11	17.48
22 11 16 00-1010 EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters <i>For Work In Restricted Working Space, Add</i>	79.06 14.51	19.32
22 11 16 00-1011 EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters <i>For Work In Restricted Working Space, Add</i>	97.59 16.20	21.57
22 11 16 00-1012 EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters <i>For Work In Restricted Working Space, Add</i>	151.82 18.44	24.53
22 11 16 00-1013 EA 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters <i>For Work In Restricted Working Space, Add</i>	211.60 21.78	29.04
22 11 16 00-1014 EA 4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters <i>For Work In Restricted Working Space, Add</i>	324.71 26.82	35.67
22 11 16 00-1015 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings (22 11 16 00-0913)		
22 11 16 00-1016 EA 1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	22.55 4.82	6.49
22 11 16 00-1017 EA 3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	31.71 6.77	9.02
22 11 16 00-1018 EA 1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	42.64 9.09	12.13
22 11 16 00-1019 EA 1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	58.14 11.93	15.93
22 11 16 00-1020 EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	67.15 13.19	17.62
22 11 16 00-1021 EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	75.96 14.72	19.60
22 11 16 00-1022 EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	120.33 16.75	22.27
22 11 16 00-1023 EA 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	131.12 19.79	26.37
22 11 16 00-1024 EA 4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	166.54 24.36	32.43
22 11 16 00-1025 EA 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	271.56 30.96	41.31
22 11 16 00-1026 EA 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	476.50 40.60	54.14
22 11 16 00-1027 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions (22 11 16 00-0913)		
22 11 16 00-1028 EA 1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	46.92 5.80	7.75
22 11 16 00-1029 EA 3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	56.01 8.12	10.86
22 11 16 00-1030 EA 1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	66.23 10.91	14.52
22 11 16 00-1031 EA 1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions <i>For Work In Restricted Working Space, Add</i>	117.86 14.30	19.04
22 11 16 00-1032 EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions <i>For Work In Restricted Working Space, Add</i>	124.19 15.82	21.15
22 11 16 00-1033 EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	177.51 17.68	23.54
22 11 16 00-1034 EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions <i>For Work In Restricted Working Space, Add</i>	312.84 20.09	26.79
22 11 16 00-1035 EA 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	450.81 23.77	31.72
22 11 16 00-1036 EA 4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	729.10 29.23	38.91



	Plumbing	22
	Plumbing Piping	22 10
	Facility Water Distribution	22 11

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-1037	EA		6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions <i>For Work In Restricted Working Space, Add</i>	976.91 37.13	49.48
22 11 16 00-1038	EA		8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions <i>For Work In Restricted Working Space, Add</i>	1,204.53 48.72	64.99
22 11 16 00-1039			Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Caps (22 11 16 00-0913)		
22 11 16 00-1040	EA		1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap <i>For Work In Restricted Working Space, Add</i>	20.27 3.02	6.63
22 11 16 00-1041	EA		3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap <i>For Work In Restricted Working Space, Add</i>	27.19 3.81	8.32
22 11 16 00-1042	EA		1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap <i>For Work In Restricted Working Space, Add</i>	41.55 4.78	10.43
22 11 16 00-1043	EA		1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap <i>For Work In Restricted Working Space, Add</i>	47.98 5.96	7.89
22 11 16 00-1044	EA		1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap <i>For Work In Restricted Working Space, Add</i>	50.65 6.60	8.74
22 11 16 00-1045	EA		2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap <i>For Work In Restricted Working Space, Add</i>	70.67 7.36	9.86
22 11 16 00-1046	EA		2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap <i>For Work In Restricted Working Space, Add</i>	111.00 8.37	11.14
22 11 16 00-1047	EA		3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap <i>For Work In Restricted Working Space, Add</i>	117.98 9.90	13.25
22 11 16 00-1048	EA		4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap <i>For Work In Restricted Working Space, Add</i>	183.97 12.18	16.21
22 11 16 00-1049	EA		6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap <i>For Work In Restricted Working Space, Add</i>	408.31 15.48	20.58
22 11 16 00-1050	EA		8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap <i>For Work In Restricted Working Space, Add</i>	525.72 20.30	27.07
22 11 16 00-1051			Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges (22 11 16 00-0913)		
22 11 16 00-1052	EA		1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	37.48 3.85	5.08
22 11 16 00-1053	EA		3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	44.46 5.42	7.19
22 11 16 00-1054	EA		1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	53.67 7.27	9.72
22 11 16 00-1055	EA		1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	62.14 9.56	12.69
22 11 16 00-1056	EA		1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	66.23 10.58	14.10
22 11 16 00-1057	EA		2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	80.40 11.76	15.65
22 11 16 00-1058	EA		2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	108.99 13.41	17.91
22 11 16 00-1059	EA		3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	122.85 15.82	21.15
22 11 16 00-1060	EA		4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	153.85 19.50	25.94
22 11 16 00-1061	EA		6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	222.32 24.79	32.99
22 11 16 00-1062	EA		8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	423.44 32.48	43.28
22 11 16 00-1063			Cross-Linked Polyethylene Tubing, ASTM F877 (22 11 16)		
			Note: Aboveground, domestic water usage.		
22 11 16 00-1064			Cross-Linked Polyethylene Tubing (22 11 16 00-1063)		
22 11 16 00-1065	LF		3/8" Cross-Linked Polyethylene (PEX , XPE or XLPE) Tubing <i>For Work In Restricted Working Space, Add</i>	6.55 1.33	
22 11 16 00-1066	LF		1/2" Cross-Linked Polyethylene (PEX , XPE or XLPE) Tubing <i>For Work In Restricted Working Space, Add</i>	7.15 1.44	
22 11 16 00-1067	LF		3/4" Cross-Linked Polyethylene (PEX , XPE or XLPE) Tubing <i>For Work In Restricted Working Space, Add</i>	9.49 1.55	
22 11 16 00-1068	LF		1" Cross-Linked Polyethylene (PEX , XPE or XLPE) Tubing <i>For Work In Restricted Working Space, Add</i>	12.86 1.64	
22 11 16 00-1069			Cross-Linked Polyethylene Forged Brass PEX Fittings (22 11 16 00-1063)		
			Note: Aboveground, domestic water usage.		
22 11 16 00-1070			Male Adapters (22 11 16 00-1069)		
22 11 16 00-1071	EA		3/8" x 1/2", (PE x Threaded) Forged Brass Male Adapter For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	28.69 6.89	
22 11 16 00-1072	EA		1/2" x 1/2", (PE x Threaded) Forged Brass Male Adapter For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	30.89 7.35	
22 11 16 00-1073	EA		1/2" x 3/4", (PE x Threaded) Forged Brass Male Adapter For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	33.76 7.81	
22 11 16 00-1074	EA		3/4" x 3/4", (PE x Threaded) Forged Brass Male Adapter For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	35.29 8.27	

22	Plumbing
22 10	Plumbing Piping
22 11	Facility Water Distribution



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-1075 EA 3/4" x 1/2", (PE x Threaded) Forged Brass Male Adapter For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	33.76 7.81	
22 11 16 00-1076 EA 1" x 1", (PE x Threaded) Forged Brass Male Adapter For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	44.25 9.19	
22 11 16 00-1077 Female Adapters (22 11 16 00-1069)		
22 11 16 00-1078 EA 1/2" x 1/2", (PE x Threaded) Forged Brass Female Adapter For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	31.56 7.35	
22 11 16 00-1079 EA 1/2" x 3/4", (PE x Threaded) Forged Brass Female Adapter For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	35.60 7.81	
22 11 16 00-1080 EA 3/4" x 3/4", (PE x Threaded) Forged Brass Female Adapter For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	37.13 8.27	
22 11 16 00-1081 EA 3/4" x 1/2", (PE x Threaded) Forged Brass Female Adapter For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	35.60 7.81	
22 11 16 00-1082 EA 1" x 1", (PE x Threaded) Forged Brass Female Adapter For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	45.08 9.19	
22 11 16 00-1083 Tube Adapters (22 11 16 00-1069)		
22 11 16 00-1084 EA 3/8" x 1/2" Forged Brass Tube Adapter For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	25.98 6.89	
22 11 16 00-1085 EA 1/2" Forged Brass Tube Adapter For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	27.51 7.35	
22 11 16 00-1086 EA 3/4" Forged Brass Tube Adapter For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	33.12 8.27	
22 11 16 00-1087 EA 1" Forged Brass Tube Adapter For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	42.54 9.19	
22 11 16 00-1088 Plugs (22 11 16 00-1069)		
22 11 16 00-1089 EA 3/8" Forged Brass Plug For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	13.06 3.22	
22 11 16 00-1090 EA 1/2" Forged Brass Plug For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	14.59 3.68	
22 11 16 00-1091 EA 3/4" Forged Brass Plug For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	16.79 4.13	
22 11 16 00-1092 EA 1" Forged Brass Plug For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	20.87 4.59	
22 11 16 00-1093 Tees (22 11 16 00-1069)		
22 11 16 00-1094 EA 3/8" Forged Brass Tee For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	37.05 9.65	
22 11 16 00-1095 EA 1/2" Forged Brass Tee For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	41.64 11.03	
22 11 16 00-1096 EA 3/4" Forged Brass Tee For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	49.57 12.40	
22 11 16 00-1097 EA 1" Forged Brass Tee For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	63.57 13.78	
22 11 16 00-1098 EA 1/2" Forged Brass Reducing Tee For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	40.11 10.57	
22 11 16 00-1099 EA 3/4" Forged Brass Reducing Tee For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	46.51 11.48	
22 11 16 00-1100 EA 1" Forged Brass Reducing Tee For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	57.63 12.40	
22 11 16 00-1101 Couplings (22 11 16 00-1069)		
22 11 16 00-1102 EA 3/8" Forged Brass Coupling For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	23.95 6.43	
22 11 16 00-1103 EA 1/2" Forged Brass Coupling For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	27.17 7.35	
22 11 16 00-1104 EA 3/4" Forged Brass Coupling For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	31.07 8.27	
22 11 16 00-1105 EA 1" Forged Brass Coupling For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	38.02 9.19	
22 11 16 00-1106 EA 3/4" x 1/2" Forged Brass Reducing Coupling For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	29.54 7.81	
22 11 16 00-1107 EA 1" x 3/4" Forged Brass Reducing Coupling For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	36.48 8.73	
22 11 16 00-1108 Fitting Reducers (22 11 16 00-1069)		
22 11 16 00-1109 EA 3/8" x 1/2" Forged Brass Fitting Reducer For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	26.48 6.89	
22 11 16 00-1110 EA 1/2" Forged Brass Fitting Reducer For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	28.01 7.35	
22 11 16 00-1111 EA 3/4" Forged Brass Fitting Reducer For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	34.12 8.27	
22 11 16 00-1112 EA 1" Forged Brass Fitting Reducer For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	48.26 9.19	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-1113 90 Degree Elbows <small>(22 11 16 00-1069)</small>		
22 11 16 00-1114 EA 3/8" Forged Brass 90 Degree Elbow For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	25.45 6.43	
22 11 16 00-1115 EA 1/2" Forged Brass 90 Degree Elbow For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	28.51 7.35	
22 11 16 00-1116 EA 3/4" Forged Brass 90 Degree Elbow For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	34.12 8.27	
22 11 16 00-1117 EA 3/4" x 1/2" Forged Brass 90 Degree Elbow For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	32.59 7.81	
22 11 16 00-1118 EA 1/2" Drop 90 Degree Elbow For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	38.95 7.35	
22 11 16 00-1119 EA 3/4" Forged Brass Drop 90 Degree Elbow For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	43.52 8.27	
22 11 16 00-1120 EA 3/4" x 1/2" Forged Brass Drop 90 Degree Elbow For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	41.99 7.81	
22 11 19 Domestic Water Piping Specialties <small>(22 11)</small>		
22 11 19 00-0001 Rubber Hose And Clamps <small>(22 11 19)</small>		
22 11 19 00-0002 General Purpose Hose <small>(22 11 19 00-0001)</small>		
<small>Note: For medium pressure (up to 200/250 psi) applications requiring excellent resistance to air, oil and heat.</small>		
22 11 19 00-0003 LF 3/8" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp	9.96	3.05
22 11 19 00-0004 LF 1/2" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp	11.71	3.05
22 11 19 00-0005 LF 5/8" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp	14.30	3.05
22 11 19 00-0006 LF 3/4" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp	14.43	3.05
22 11 19 00-0007 LF 1" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp	19.67	4.58
22 11 19 00-0008 LF 1-1/4" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp	32.52	4.58
22 11 19 00-0009 LF 1-1/2" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp	35.37	6.10
22 11 19 00-0010 LF 2" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp	67.74	6.10
22 11 19 00-0011 Reinforced EPDM Water Hose Assembly <small>(22 11 19 00-0001)</small>		
<small>Note: Includes male/female camlock, 150 psi, synthetic fiber with steel wire helix reinforcement.</small>		
22 11 19 00-0012 LF 1-1/2" Inside Diameter, Ethylene Propylene Diene Monomer (EPDM) Rubber Hose, Male/Female Camlocks, Synthetic Fiber With Steel Wire Helix Reinforcement	89.90	6.10
22 11 19 00-0013 LF 2" Inside Diameter, Ethylene Propylene Diene Monomer (EPDM) Rubber Hose, Male/Female Camlocks, Synthetic Fiber With Steel Wire Helix Reinforcement	106.07	6.10
22 11 19 00-0014 LF 3" Inside Diameter, Ethylene Propylene Diene Monomer (EPDM) Rubber Hose, Male/Female Camlocks, Synthetic Fiber With Steel Wire Helix Reinforcement	149.12	7.50
22 11 19 00-0015 LF 4" Inside Diameter, Ethylene Propylene Diene Monomer (EPDM) Rubber Hose, Male/Female Camlocks, Synthetic Fiber With Steel Wire Helix Reinforcement	209.46	10.14
22 11 19 00-0016 Chemical Resistant Rubber Hoses <small>(22 11 19 00-0001)</small>		
22 11 19 00-0017 EA 50' x 6" Brown Gum Rubber, Chemical Resistant Flexible Hose	1,439.44	346.60
22 11 19 00-0018 EA 50' x 6" Nitrile Rubber, Low pH Resistance, Flexible Hose	1,928.35	346.60
22 11 19 00-0019 Water Pump Hose <small>(22 11 19 00-0001)</small>		
22 11 19 00-0020 EA 2" Inside Diameter, 20' Rubber Discharge Hose	767.30	93.19
22 11 19 00-0021 EA 2" Inside Diameter, 20' Rubber Intake Hose	812.24	93.19
22 11 19 00-0022 Barbed Hose x Threaded Male Pipe, Steel Coupling <small>(22 11 19 00-0001)</small>		
22 11 19 00-0023 EA 3/8" Inside Diameter Barbed Hose x 1/2" Threaded Male Pipe, Steel Coupling	36.71	12.81
22 11 19 00-0024 EA 1/2" Inside Diameter Barbed Hose x 1/2" Threaded Male Pipe, Steel Coupling	39.02	13.73
22 11 19 00-0025 EA 5/8" Inside Diameter Barbed Hose x 3/4" Threaded Male Pipe, Steel Coupling	41.75	14.64
22 11 19 00-0026 EA 3/4" Inside Diameter Barbed Hose x 3/4" Threaded Male Pipe, Steel Coupling	47.39	16.47
22 11 19 00-0027 EA 1" Inside Diameter Barbed Hose x 1" Threaded Male Pipe, Steel Coupling	56.91	20.14
22 11 19 00-0028 EA 1-1/4" Inside Diameter Barbed Hose x 1-1/4" Threaded Male Pipe, Steel Coupling	67.61	24.10
22 11 19 00-0029 EA 1-1/2" Inside Diameter Barbed Hose x 1-1/2" Threaded Male Pipe, Steel Coupling	87.45	31.72
22 11 19 00-0030 EA 2" Inside Diameter Barbed Hose x 2" Threaded Male Pipe, Steel Coupling	109.94	39.65
22 11 19 00-0031 Worm-Drive Hose Clamp <small>(22 11 19 00-0001)</small>		
22 11 19 00-0032 EA 3/8" To 1" Diameter Worm Drive Hose Clamp	16.68	4.58
22 11 19 00-0033 EA 1/2" To 1-1/8" Diameter Worm Drive Hose Clamp	17.62	4.58
22 11 19 00-0034 EA 5/8" To 1-1/2" Diameter Worm Drive Hose Clamp	18.61	4.58
22 11 19 00-0035 EA 3/4" To 2" Diameter Worm Drive Hose Clamp	19.80	4.58
22 11 19 00-0036 EA 1" To 2-1/2" Diameter Worm Drive Hose Clamp	21.13	4.58
22 11 19 00-0037 EA 1-1/4" To 2-3/4" Diameter Worm Drive Hose Clamp	22.94	6.10
22 11 19 00-0038 EA 1-1/2" To 3" Diameter Worm Drive Hose Clamp	24.72	6.10
22 11 19 00-0039 Trap Primer And Accessories <small>(22 11 19)</small>		
22 11 19 00-0040 Trap Primer <small>(22 11 19 00-0039)</small>		
22 11 19 00-0041 EA 1/2" Inlet/Outlet, Flow Through Automatic Trap Primer (JR Smith 2699)	332.59	22.97



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0042 EA 1/2" Inlet/Outlet, Automatic Trap Primer, Up To Two Floor Drains (PPP PR-500).....	204.70	15.31
22 11 19 00-0043 EA 1/2" Inlet/Outlet, Automatic Trap Primer, Up To Four Floor Drains (PPP PO-500).....	198.52	15.31
22 11 19 00-0044 Trap Primer Distribution Unit (22 11 19 00-0039)		
22 11 19 00-0045 EA Molded Plastic Four Opening Trap Primer Distribution Unit (PPP DU-U)..... Note: Can be used for two, three or four drains.	182.12	30.63
22 11 19 00-0046 EA Copper Four Opening Trap Primer Distribution Unit (PPP DU-4)..... Note: Can be used for two, three or four drains.	198.74	30.63
22 11 19 00-0047 Trap Primer Manifold (22 11 19 00-0039)		
22 11 19 00-0048 EA Two Outlet Trap Primer Manifold.....	268.42	41.19
22 11 19 00-0049 EA Four Outlet Trap Primer Manifold.....	401.66	46.86
22 11 19 00-0050 EA Six Outlet Trap Primer Manifold.....	531.01	49.62
22 11 19 00-0051 EA Eight Outlet Trap Primer Manifold.....	666.76	58.19
22 11 19 00-0052 Sewage Air Release Valves (22 11 19)		
22 11 19 00-0053 Cast Iron, Sewage Air Release Valves (22 11 19 00-0052) Note: Stainless steel float.		
22 11 19 00-0054 EA 2" x 1/2" NPT, Cast Iron, Sewage Air Release Valve (Apco 400)..... <i>For Back Flush Attachment, Add</i>	981.15 650.00	55.91
22 11 19 00-0055 EA 3" x 1/2" NPT, Cast Iron, Sewage Air Release Valve (Apco 400)..... <i>For Back Flush Attachment, Add</i>	1,216.62 650.00	93.44
22 11 19 00-0056 EA 4" x 1/2" NPT, Cast Iron, Sewage Air Release Valve (Apco 400)..... <i>For Back Flush Attachment, Add</i>	1,542.48 650.00	117.95
22 11 19 00-0057 Cast Iron, Sewage Air Vacuum Valves (22 11 19 00-0052) Note: Stainless steel float.		
22 11 19 00-0058 EA 2" x 1" NPT, Cast Iron, Sewage Air Vacuum Valve (Apco 401)..... <i>For Back Flush Attachment, Add</i>	1,001.85 650.00	55.91
22 11 19 00-0059 EA 2" x 2" NPT, Cast Iron, Sewage Air Vacuum Valve (Apco 402)..... <i>For Back Flush Attachment, Add</i>	1,938.45 650.00	55.91
22 11 19 00-0060 EA 3" x 2" NPT, Cast Iron, Sewage Air Vacuum Valve (Apco 403)..... <i>For Back Flush Attachment, Add</i>	2,339.50 650.00	93.44
22 11 19 00-0061 EA 4" NPT x 4" With Hood, Cast Iron, Sewage Air Vacuum Valve (Apco 404).....	3,454.49	117.95
22 11 19 00-0062 Cast Iron, Sewage Combination Air Valves (22 11 19 00-0052) Note: Stainless steel float.		
22 11 19 00-0063 EA 2" x 1" NPT, Sewage Combination Air Valve (Apco 443).....	2,109.22	55.91
22 11 19 00-0064 EA 2" x 2" NPT, Sewage Combination Air Valve (Apco 445).....	2,896.34	55.91
22 11 19 00-0065 EA 3" x 3" NPT, Sewage Combination Air Valve (Apco 447).....	3,405.47	93.44
22 11 19 00-0066 EA 4" x 4" NPT, Sewage Combination Air Valve (Apco 449).....	4,166.00	117.95
22 11 19 00-0067 Brass, Anti Siphon Vacuum Breakers (22 11 19) Note: Watts 288A		
22 11 19 00-0068 EA 1/2" Brass, Anti Siphon Vacuum Breaker.....	129.17	38.28
22 11 19 00-0069 EA 3/4" Brass, Anti Siphon Vacuum Breaker.....	147.87	42.87
22 11 19 00-0070 EA 1" Brass, Anti Siphon Vacuum Breaker.....	288.45	49.00
22 11 19 00-0071 EA 1-1/4" Brass, Anti Siphon Vacuum Breaker.....	450.91	56.66
22 11 19 00-0072 EA 1-1/2" Brass, Anti Siphon Vacuum Breaker.....	538.03	62.79
22 11 19 00-0073 EA 2" Brass, Anti Siphon Vacuum Breaker.....	781.23	76.57
22 11 19 00-0074 EA 2-1/2" Brass, Anti Siphon Vacuum Breaker.....	2,009.84	95.71
22 11 19 00-0075 Anti Siphon Pressure Vacuum Breakers (22 11 19) Note: Watts 800M4QT		
22 11 19 00-0076 EA 1/2" Anti Siphon Pressure Type Vacuum Breaker.....	351.97	38.28
22 11 19 00-0077 EA 3/4" Anti Siphon Pressure Type Vacuum Breaker.....	311.04	42.87
22 11 19 00-0078 EA 1" Anti Siphon Pressure Type Vacuum Breaker.....	440.00	49.00
22 11 19 00-0079 EA 1-1/4" Anti Siphon Pressure Type Vacuum Breaker.....	784.32	56.66
22 11 19 00-0080 EA 1-1/2" Anti Siphon Pressure Type Vacuum Breaker.....	954.10	62.79
22 11 19 00-0081 EA 2" Anti Siphon Pressure Type Vacuum Breaker.....	967.60	76.57
22 11 19 00-0082 Bellows Type Water Hammer Arrestors (22 11 19)		
22 11 19 00-0083 EA Up To 11 Fixture Unit Capacity, 3/4" Nipple, Stainless Steel, Hydrotrol Water Hammer Arrestor (Jay R. Smith® 5005).....	172.54	18.31
22 11 19 00-0084 EA >11 To 32 Fixture Unit Capacity, 1" Nipple, Stainless Steel, Hydrotrol Water Hammer Arrestor (Jay R. Smith® 5010).....	321.39	22.15
22 11 19 00-0085 EA >32 To 60 Fixture Unit Capacity, 1" Nipple, Stainless Steel, Hydrotrol Water Hammer Arrestor (Jay R. Smith® 5020).....	458.06	22.15
22 11 19 00-0086 EA >60 To 113 Fixture Unit Capacity, 1" Nipple, Stainless Steel, Hydrotrol Water Hammer Arrestor (Jay R. Smith® 5030).....	1,081.98	22.15
22 11 19 00-0087 EA >113 To 154 Fixture Unit Capacity, 1" Nipple, Stainless Steel, Hydrotrol Water Hammer Arrestor (Jay R. Smith® 5040).....	1,212.15	22.15



	Plumbing	22
	Plumbing Piping	22 10
	Facility Water Distribution	22 11

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0088 EA >154 To 330 Fixture Unit Capacity, 1" Nipple, Stainless Steel, Hydrotrol Water Hammer Arrestor (Jay R. Smith® 5050).....	1,479.78	22.15
22 11 19 00-0089 Piston Type Water Hammer Arrestors (22 11 19)		
22 11 19 00-0090 Threaded Piston Type Water Hammer Arrestors (22 11 19 00-0089)		
22 11 19 00-0091 EA Up To 11 Fixture Unit Capacity, 1/2" M.P.T Brass Connection, Copper Body, Piston Type Water Hammer Arrestor (MI Fab MWH-A).....	190.77	10.21
22 11 19 00-0092 EA >11 To 32 Fixture Unit Capacity, 3/4" M.P.T Brass Connection, Copper Body, Piston Type Water Hammer Arrestor (MI Fab MWH-B).....	364.24	11.77
22 11 19 00-0093 EA >32 To 60 Fixture Unit Capacity, 1" M.P.T Brass Connection, Copper Body, Piston Type Water Hammer Arrestor (MI Fab MWH-C).....	540.01	12.76
22 11 19 00-0094 EA >60 To 113 Fixture Unit Capacity, 1-1/4" M.P.T Brass Connection, Copper Body, Piston Type Water Hammer Arrestor (MI Fab MWH-D).....	1,324.33	16.47
22 11 19 00-0095 EA >113 To 154 Fixture Unit Capacity, 1-1/2" M.P.T Brass Connection, Copper Body, Piston Type Water Hammer Arrestor (MI Fab MWH-E).....	1,613.08	20.42
22 11 19 00-0096 EA >154 To 330 Fixture Unit Capacity, 2" M.P.T Brass Connection, Copper Body, Piston Type Water Hammer Arrestor (MI Fab MWH-F).....	1,835.27	22.15
22 11 19 00-0097 Wall Hydrants (22 11 19)		
Note: Female inlet connection, 3/4" hose thread outlet.		
22 11 19 00-0098 Cast Bronze, Non-Freeze, Stainless Steel Box, Integral Vacuum Breaker Wall Hydrants (22 11 19 00-0097)		
Note: 3/4" HPT outlet. 3/4" NPT female and 1" NPT male inlet connection. Includes wall clamp.		
22 11 19 00-0099 EA 6" Thick Wall, Cast Bronze, Non-Freeze, Stainless Steel Box, Integral Vacuum Breaker Wall Hydrant.....	1,069.34	38.28
For Cast Bronze Box, Add	54.58	
For 1" NPT Outlet, Add	128.65	
22 11 19 00-0100 EA 12" Thick Wall, Cast Bronze, Non-Freeze, Stainless Steel Box, Integral Vacuum Breaker Wall Hydrant.....	1,127.02	45.94
For Cast Bronze Box, Add	54.58	
For 1" NPT Outlet, Add	128.65	
22 11 19 00-0101 EA 18" Thick Wall, Cast Bronze, Non-Freeze, Stainless Steel Box, Integral Vacuum Breaker Wall Hydrant.....	1,158.39	55.28
For Cast Bronze Box, Add	54.58	
For 1" NPT Outlet, Add	128.65	
22 11 19 00-0102 Cast Bronze, Stainless Steel Box, Integral Vacuum Breaker Wall Hydrants (22 11 19 00-0097)		
Note: 3/4" HPT outlet. 3/4" NPT female and 1" NPT male inlet connection. Includes wall clamp.		
22 11 19 00-0103 EA Cast Bronze, Stainless Steel Box, Integral Vacuum Breaker Wall Hydrant.....	1,076.02	64.31
For Cast Bronze Box, Add	54.58	
For 1" NPT Outlet, Add	128.65	
22 11 19 00-0104 Cast Bronze Non-Freezing Wall Hydrant (22 11 19 00-0097)		
Note: 3/4" HPT outlet. 3/4" NPT female and 1" NPT male inlet connection. Includes wall clamp.		
22 11 19 00-0105 EA 3" Thick Wall, Cast Bronze, Non-Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant.....	580.68	47.47
For 1" NPT Outlet, Add	128.65	
22 11 19 00-0106 EA 4" Thick Wall, Cast Bronze, Non-Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant.....	718.89	47.47
For 1" NPT Outlet, Add	128.65	
22 11 19 00-0107 EA 6" Thick Wall, Cast Bronze, Non-Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant.....	718.89	47.47
For 1" NPT Outlet, Add	128.65	
22 11 19 00-0108 EA 8" Thick Wall, Cast Bronze, Non-Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant.....	718.89	47.47
For 1" NPT Outlet, Add	128.65	
22 11 19 00-0109 EA 10" Thick Wall, Cast Bronze, Non-Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant.....	751.05	95.71
For 1" NPT Outlet, Add	128.65	
22 11 19 00-0110 EA 12" Thick Wall, Cast Bronze, Non-Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant.....	751.05	95.71
For 1" NPT Outlet, Add	128.65	
22 11 19 00-0111 EA 18" Thick Wall, Cast Bronze, Non-Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant.....	847.26	95.71
For 1" NPT Outlet, Add	128.65	
22 11 19 00-0112 Stainless Steel Box Type Wall Hydrants (22 11 19 00-0097)		
Note: With 3/4" NPT female and 3/4" NPT male inlet connection.		
22 11 19 00-0113 EA Recessed Stainless Steel Hose Box With Wall Flange Less Door (Acorn 8140).....	533.06	38.28
22 11 19 00-0114 EA Recessed Stainless Steel Hose Box With Vacuum Breaker, Wall Flange Less Door (Acorn 8141).....	581.28	38.28
22 11 19 00-0115 EA Recessed Stainless Steel Hose Box With Wall Flange And Door (Acorn 8150).....	587.85	38.28
22 11 19 00-0116 EA Recessed Stainless Steel Hose Box With Vacuum Breaker, Wall Flange And Door (Acorn 8151).....	660.18	38.28
22 11 19 00-0117 EA Recessed Stainless Steel Hose Box With Wall Flange Less Door (Acorn 8145).....	928.97	53.60
Note: Includes hot and cold hose connections.		
22 11 19 00-0118 EA Recessed Stainless Steel Hose Box With Vacuum Breaker, Wall Flange Less Door (Acorn 8146).....	957.46	53.60
Note: Includes hot and cold hose connections.		
22 11 19 00-0119 EA Recessed Stainless Steel Hose Box With Wall Flange And Door (Acorn 8155).....	957.46	53.60
Note: Includes hot and cold hose connections.		
22 11 19 00-0120 EA Recessed Stainless Steel Hose Box With Vacuum Breaker, Wall Flange And Door (Acorn 8156).....	1,025.40	53.60
Note: Includes hot and cold hose connections.		
22 11 19 00-0121 Washer Boxes And Dryer Outlets (22 11 19)		
22 11 19 00-0122 Dryer Vent Kit (22 11 19 00-0121)		
Note: Includes 4" flexible tubing plastic hood clamps and tailpipe.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0123 EA Dryer Vent Kit With Hood, 4" x 5' Flexible Vent And Clamps	99.84	19.90
22 11 19 00-0124 Washer Boxes And Dryer Vents <small>(22 11 19 00-0121)</small> Note: Includes 1/2" supply valves and mounting brackets.		
22 11 19 00-0125 EA 2" Washing Machine Outlet Box, Plastic, Two 1/2" Supply Valves	359.88	30.63
22 11 19 00-0126 Ice Maker Outlet Box <small>(22 11 19)</small> Note: Includes one 1/2" quarter turn ball valve and connections wall mount.		
22 11 19 00-0127 EA Plastic Ice Maker Outlet Box, 1/2" Quarter Turn Ball Valve, Wall Mount	190.02	30.63
22 11 19 00-0128 EA Plastic Ice Maker Outlet Box, 1/2" Quarter Turn Ball Valve With Water Hammer Arrestor, Wall Mount	192.95	30.63
22 11 19 00-0129 EA Steel Ice Maker Outlet Box, 1/2" Quarter Turn Ball Valve, Wall Mount.....	269.31	30.63
22 11 19 00-0130 Tempering Controllers For Potable Hot Water <small>(22 11 19)</small>		
22 11 19 00-0131 Point-Of-Use Thermostatic Mixing Valves (Bradley) <small>(22 11 19 00-0130)</small> Note: Point-of-Use Water Tempering Valves: ASSE 1016, or 1070, with piston-control mechanism, positive shutoff of hot water when cold water supply is lost, bronze body and cap with replaceable corrosion-resistant components, including stainless steel piston and liner.		
22 11 19 00-0132 EA 1/2" Inlets, 1/2" Outlet Sink/Faucet Point-Of-Use Thermostatic Mixing Valve (Bradley S59-2007).....	588.09	37.07
22 11 19 00-0133 EA 1/2" Inlets, 1/2" Outlet Point-Of-Use Thermostatic Mixing Valve (Bradley S59-4004).....	158.55	37.07
22 11 19 00-0134 EA 1/2" Inlets, 1/2" Outlet Point-Of-Use Thermostatic Mixing Valve (Bradley S59-4008).....	338.23	37.07
22 11 19 00-0135 EA 3/4" Inlets, 3/4" Outlet Point-Of-Use Thermostatic Mixing Valve (Bradley S59-4016).....	389.84	49.93
22 11 19 00-0136 Thermostatic Mixing Valves (Bradley) <small>(22 11 19 00-0130)</small> Note: Standard Thermostatic, Water Mixing Valves: ASSE 1017, liquid-filled motor and piston control mechanism with positive shutoff of hot water when coldwater supply is lost. Water flow is shut off in event of thermostat failure. Bronze valve body and cap with replaceable corrosion-resistant components, including stainless steel piston and liner. Equipped with integral check stops and removable strainers.		
22 11 19 00-0137 EA 3/4" Inlets, 3/4" Outlet, 25 GPM Thermostatic Mixing Valve (Bradley S59-2025)	1,587.09	53.46
22 11 19 00-0138 EA 3/4" Inlets, 1" Outlet, 45 GPM Thermostatic Mixing Valve (Bradley S59-2045)	1,782.64	65.84
22 11 19 00-0139 EA 1" Inlets, 1-1/4" Outlet, 80 GPM Thermostatic Mixing Valve (Bradley S59-2080)	2,142.55	76.59
22 11 19 00-0140 EA 1-1/4" Inlets, 1-1/2" Outlet, 130 GPM Thermostatic Mixing Valve (Bradley S59-2130)	2,773.43	80.49
22 11 19 00-0141 EA 2" Inlets, 2" Outlet, 220 GPM Thermostatic Mixing Valve (Bradley S59-2200)	3,722.70	104.43
22 11 19 00-0142 High Low Temperature Thermostatic Mixing Valves (Bradley) <small>(22 11 19 00-0130)</small> Note: High Low Temperature Thermostatic Mixing Valves: ASSE 1017, liquid-filled thermal motor and piston control mechanism with positive shutoff of hot water when cold water supply is lost, and allowing restricted cold flow in event of loss or interruption of hot water supply. Flow is shut off in the event of thermostat failure. Equipped with integral check stops, thermometer, and removable strainers.		
22 11 19 00-0143 EA 3/4" Inlets, 1" Outlet, 45 GPM High-Low Thermostatic Mixing Valve (Bradley S59-3045)	4,034.61	82.33
22 11 19 00-0144 EA 1" Inlets, 1-1/4" Outlet, 80 GPM High-Low Thermostatic Mixing Valve (Bradley S59-3080).....	5,248.85	95.73
22 11 19 00-0145 EA 1-1/4" Inlets, 1-1/2" Outlet, 130 GPM High-Low Thermostatic Mixing Valve (Bradley S59-3130).....	6,119.14	100.62
22 11 19 00-0146 EA 2" Inlets, 2" Outlet, 220 GPM High-Low Thermostatic Mixing Valve (Bradley S59-3200)	6,783.12	130.55
22 11 19 00-0147 Thermostatic Mixing Valves (Leonard) <small>(22 11 19 00-0130)</small> Note: Thermostatic Water Mixing Valve with Integral combination checkstops with strainers, 125 PSI (8.6 BAR) maximum operating pressure, Copper encapsulated thermostatic assembly with Teflon coated brass shuttle, Locking temperature regulating handle, Top or bottom supply/outlet connections, Integral circulation port connection		
22 11 19 00-0148 EA 3/4" In x 3/4" Out Thermostatic Mixing Valve (Leonard LV-981-RF).....	1,155.59	53.46
Note: For hot water or two pipe low pressure steam.		
22 11 19 00-0149 EA 1" In x 1-1/4" Out Thermostatic Mixing Valve (Leonard LV-982-RF).....	1,361.16	65.83
Note: For hot water or two pipe low pressure steam.		
22 11 19 00-0150 EA 1-1/4" In x 1-1/4" Out Thermostatic Mixing Valve (Leonard LV-983-RF).....	1,671.95	76.59
Note: For hot water or two pipe low pressure steam.		
22 11 19 00-0151 EA 1-1/4" In x 1-1/2" Out Thermostatic Mixing Valve (Leonard LV-984-RF).....	2,041.37	80.52
Note: For hot water or two pipe low pressure steam.		
22 11 19 00-0152 EA 2" In x 2" Out Thermostatic Mixing Valve (Leonard LV-985-RF).....	3,029.45	104.43
Note: For hot water or two pipe low pressure steam.		
22 11 19 00-0153 Water Mixing/Self Operating Temperature Regulator <small>(22 11 19 00-0130)</small> Note: Includes high rate spring, temperature adjustment screw, temperature dial and remote bulb with 8' capillary tube.		
22 11 19 00-0154 EA 3/4" Valve Size, Water Mixing/Self Operating Temperature Regulator (Powers #11 Type WM Regulator)	3,329.09	76.57
22 11 19 00-0155 EA 1" Valve Size, Water Mixing/Self Operating Temperature Regulator (Powers #11 Type WM Regulator)	3,538.04	96.47
22 11 19 00-0156 EA 1-1/4" Valve Size, Water Mixing/Self Operating Temperature Regulator (Powers #11 Type WM Regulator).....	3,904.69	116.38
22 11 19 00-0157 EA 1-1/2" Valve Size, Water Mixing/Self Operating Temperature Regulator (Powers #11 Type WM Regulator).....	4,304.81	136.29
22 11 19 00-0158 EA 2" Valve Size, Water Mixing/Self Operating Temperature Regulator (Powers #11 Type WM Regulator)	5,104.96	179.17
22 11 19 00-0159 EA 2-1/2" Valve Size, Water Mixing/Self Operating Temperature Regulator (Powers #11 Type WM Regulator).....	6,005.51	204.28
22 11 19 00-0160 Thermostatic Mixing Valves (Holby) <small>(22 11 19 00-0130)</small>		
22 11 19 00-0161 EA 2-1/2" Thermostatic Mixing Valve (Holby HOLBY2500).....	5,376.57	104.46



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0162		
22 11 19 00-0163		
22 11 19 00-0164		
22 11 19 00-0165		
22 11 19 00-0166		
22 11 19 00-0167		
22 11 19 00-0168		
22 11 19 00-0169		
22 11 19 00-0170		
22 11 19 00-0171		
22 11 19 00-0172		
22 11 19 00-0173		
22 11 19 00-0174		
22 11 19 00-0175		
22 11 19 00-0176		
22 11 19 00-0177		
22 11 19 00-0178		
22 11 19 00-0179		
22 11 19 00-0180		
22 11 19 00-0181		
22 11 19 00-0182		
22 11 19 00-0183		
22 11 19 00-0184		
22 11 19 00-0185		
<p>Backflow Preventer Valves <small>(22 11 19)</small></p> <p>Double Check Valve Backflow Preventer Assemblies <small>(22 11 19 00-0162)</small></p> <p>Threaded Double Check Valve Assemblies <small>(22 11 19 00-0163)</small></p> <p>Double Check Valve Assemblies With Quarter Turn Shut-Offs <small>(22 11 19 00-0164)</small></p> <p>Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, and two epoxy coated bronze body check valves (Watts 007 QT or 719 QT series).</p> <p>EA 1/2" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 007 QT or 719 QT series) 479.64 41.04 For Work In Restricted Working Space, Add 30.78 For Owner Furnished Material, Deduct -377.04</p> <p>EA 3/4" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 007 QT or 719 QT Series)..... 571.11 58.19 For Work In Restricted Working Space, Add 43.64 For Owner Furnished Material, Deduct -425.64</p> <p>EA 1" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 007 QT or 719 QT Series)..... 660.56 71.05 For Work In Restricted Working Space, Add 53.29 For Owner Furnished Material, Deduct -482.93</p> <p>EA 1-1/4" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 007 QT or 719 QT Series)..... 916.23 82.69 For Work In Restricted Working Space, Add 62.02 For Owner Furnished Material, Deduct -709.50</p> <p>EA 1-1/2" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 007 QT or 719 QT Series)..... 1,130.45 94.94 For Work In Restricted Working Space, Add 70.75 For Owner Furnished Material, Deduct -894.63</p> <p>EA 2" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 007 QT or 719 QT Series)..... 1,309.27 122.50 For Work In Restricted Working Space, Add 91.88 For Owner Furnished Material, Deduct -1,003.00</p> <p>Double Check Valve Assemblies With Quarter Turn Shut-Offs And Strainer <small>(22 11 19 00-0164)</small></p> <p>Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, two epoxy coated bronze body check valves, and bronze strainer (Watts 007 QT-S or 719 QT-S series).</p> <p>EA 1/2" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs And Strainer (Watts 007 QT-S or 719 QT-S)..... 587.53 41.04 For Work In Restricted Working Space, Add 30.78 For Owner Furnished Material, Deduct -484.93</p> <p>EA 3/4" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs And Strainer (Watts 007 QT-S or 719 QT-S)..... 729.13 58.19 For Work In Restricted Working Space, Add 43.64 For Owner Furnished Material, Deduct -583.66</p> <p>EA 1" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs And Strainer (Watts 007 QT-S or 719 QT-S)..... 854.28 71.05 For Work In Restricted Working Space, Add 53.29 For Owner Furnished Material, Deduct -676.65</p> <p>EA 1-1/4" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs And Strainer (Watts 007 QT-S or 719 QT-S)..... 1,192.26 82.69 For Work In Restricted Working Space, Add 62.02 For Owner Furnished Material, Deduct -985.53</p> <p>EA 1-1/2" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs And Strainer (Watts 007 QT-S or 719 QT-S)..... 1,455.55 94.94 For Work In Restricted Working Space, Add 70.75 For Owner Furnished Material, Deduct -1,219.73</p> <p>EA 2" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs And Strainer (Watts 007 QT-S or 719 QT-S)..... 1,758.11 122.50 For Work In Restricted Working Space, Add 91.88 For Owner Furnished Material, Deduct -1,451.84</p> <p>Flanged Double Check Valve Assemblies <small>(22 11 19 00-0163)</small></p> <p>Double Check Valve Assemblies With Non-Rising Stem Shut-Offs <small>(22 11 19 00-0179)</small></p> <p>Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, and two epoxy coated iron body check valves (Watts LF007 NRS series).</p> <p>EA 2-1/2" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF007 NRS) 6,291.57 338.36 For Work In Restricted Working Space, Add 135.34 For Owner Furnished Material, Deduct -5,840.43</p> <p>EA 3" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF007 NRS) 6,913.88 380.65 For Work In Restricted Working Space, Add 150.14 For Owner Furnished Material, Deduct -6,413.40</p> <p>Double Check Valve Assemblies With Outside Stem And Yoke Shut-Offs <small>(22 11 19 00-0179)</small></p> <p>Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and two epoxy coated iron body check valves (Watts LF007 OSY series).</p> <p>EA 2-1/2" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF007 OSY)..... 6,885.21 338.36 For Work In Restricted Working Space, Add 135.34 For Owner Furnished Material, Deduct -6,434.07</p> <p>EA 3" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 007 OSY) 7,903.28 380.65 For Work In Restricted Working Space, Add 150.14 For Owner Furnished Material, Deduct -7,402.80</p>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0186 Double Check Valve Assemblies With Non-Rising Stem Shut-Offs <small>(22 11 19 00-0179)</small> Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, and two epoxy coated iron body check valves (Watts LF709 NRS series).		
22 11 19 00-0187 EA 2-1/2" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF709 NRS series).....	6,334.36	338.36
<i>For Work In Restricted Working Space, Add</i>	135.33	
<i>For Owner Furnished Material, Deduct</i>	-5,883.25	
22 11 19 00-0188 EA 3" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF709 NRS series).....	4,861.76	380.65
<i>For Work In Restricted Working Space, Add</i>	150.15	
<i>For Owner Furnished Material, Deduct</i>	-4,361.27	
22 11 19 00-0189 EA 4" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF709 NRS series).....	7,604.96	563.93
<i>For Work In Restricted Working Space, Add</i>	225.45	
<i>For Owner Furnished Material, Deduct</i>	-6,853.46	
22 11 19 00-0190 EA 6" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF709 NRS Series)	11,527.11	774.47
<i>For Work In Restricted Working Space, Add</i>	419.72	
<i>For Owner Furnished Material, Deduct</i>	-10,128.06	
22 11 19 00-0191 EA 8" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF709 NRS Series)	26,183.91	1,161.71
<i>For Work In Restricted Working Space, Add</i>	629.67	
<i>For Owner Furnished Material, Deduct</i>	-24,085.01	
22 11 19 00-0192 EA 10" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF709 NRS Series)	33,603.55	1,374.06
<i>For Work In Restricted Working Space, Add</i>	749.49	
<i>For Owner Furnished Material, Deduct</i>	-31,105.26	
22 11 19 00-0193 Double Check Valve Assemblies With Non-Rising Stem Shut-Offs And Strainer <small>(22 11 19 00-0179)</small> Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, two epoxy coated iron body check valves, and iron body strainer (Watts 709 NRS-S series).		
22 11 19 00-0194 EA 4" Flanged Double Check Valve Assembly With NRS Shut-offs And Strainer (Watts LF709 NRS-S-FDA Series).....	8,858.62	563.93
<i>For Work In Restricted Working Space, Add</i>	225.43	
<i>For Owner Furnished Material, Deduct</i>	-8,107.19	
22 11 19 00-0195 EA 6" Flanged Double Check Valve Assembly With NRS Shut-offs And Strainer (Watts LF709 NRS-S-FDA Series).....	14,677.72	774.47
<i>For Work In Restricted Working Space, Add</i>	419.72	
<i>For Owner Furnished Material, Deduct</i>	-13,278.67	
22 11 19 00-0196 EA 10" Flanged Double Check Valve Assembly With NRS Shut-offs And Strainer (Watts LF709 NRS-S-FDA Series).....	38,978.49	1,374.06
<i>For Work In Restricted Working Space, Add</i>	749.49	
<i>For Owner Furnished Material, Deduct</i>	-36,480.20	
22 11 19 00-0197 Double Check Valve Assemblies With Outside Stem And Yoke Shut-Offs <small>(22 11 19 00-0179)</small> Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and two epoxy coated iron body check valves (Watts LF709 OSY series).		
22 11 19 00-0198 EA 2-1/2" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF709 OSY Series).....	6,722.74	338.36
<i>For Work In Restricted Working Space, Add</i>	135.33	
<i>For Owner Furnished Material, Deduct</i>	-6,271.63	
22 11 19 00-0199 EA 3" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF709 OSY series)	7,387.90	380.65
<i>For Work In Restricted Working Space, Add</i>	150.14	
<i>For Owner Furnished Material, Deduct</i>	-6,887.42	
22 11 19 00-0200 EA 4" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF709 OSY Series).....	8,059.72	563.93
<i>For Work In Restricted Working Space, Add</i>	225.43	
<i>For Owner Furnished Material, Deduct</i>	-7,308.29	
22 11 19 00-0201 EA 6" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF709 OSY Series).....	13,460.90	774.47
<i>For Work In Restricted Working Space, Add</i>	419.72	
<i>For Owner Furnished Material, Deduct</i>	-12,061.85	
22 11 19 00-0202 EA 8" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF709 OSY Series).....	27,789.56	1,161.71
<i>For Work In Restricted Working Space, Add</i>	629.57	
<i>For Owner Furnished Material, Deduct</i>	-25,690.99	
22 11 19 00-0203 EA 10" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF709 OSY Series).....	35,675.73	1,374.06
<i>For Work In Restricted Working Space, Add</i>	749.49	
<i>For Owner Furnished Material, Deduct</i>	-33,177.44	
22 11 19 00-0204 Double Check Valve Assemblies With Outside Stem And Yoke Shut-Offs <small>(22 11 19 00-0179)</small> Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and single stainless steel housing and sleeve for two check valves (Watts 757 OSY series).		
22 11 19 00-0205 EA 2-1/2" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757 OSY Series).....	4,039.69	338.36
<i>For Work In Restricted Working Space, Add</i>	135.33	
<i>For Owner Furnished Material, Deduct</i>	-3,588.58	
22 11 19 00-0206 EA 3" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757 OSY Series).....	4,448.12	380.65
<i>For Work In Restricted Working Space, Add</i>	150.14	
<i>For Owner Furnished Material, Deduct</i>	-3,947.64	
22 11 19 00-0207 EA 4" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757 OSY Series).....	5,058.14	563.93
<i>For Work In Restricted Working Space, Add</i>	225.43	
<i>For Owner Furnished Material, Deduct</i>	-4,306.71	
22 11 19 00-0208 EA 6" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757 OSY Series).....	8,133.19	774.47
<i>For Work In Restricted Working Space, Add</i>	419.72	
<i>For Owner Furnished Material, Deduct</i>	-6,734.14	
22 11 19 00-0209 EA 8" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757 OSY Series).....	15,412.53	1,161.71
<i>For Work In Restricted Working Space, Add</i>	629.57	
<i>For Owner Furnished Material, Deduct</i>	-13,313.96	
22 11 19 00-0210 EA 10" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757 OSY Series).....	16,745.17	1,374.06
<i>For Work In Restricted Working Space, Add</i>	749.49	
<i>For Owner Furnished Material, Deduct</i>	-14,246.88	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0211 N-Pattern Double Check Valve Assemblies With Outside Stem And Yoke Shut-Offs <small>(22 11 19 00-0179)</small> Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and single stainless steel housing and sleeve for two check valves (Watts 757N OSY series).		
22 11 19 00-0212 EA 2-1/2" N-Pattern Flanged Double Check Valve Assembly With Outside Stem And Yoke Shutoffs (Watts 757N OSY Series).....	5,312.99	338.36
<i>For Work In Restricted Working Space, Add</i>	<i>135.33</i>	
<i>For Owner Furnished Material, Deduct</i>	<i>-4,861.88</i>	
22 11 19 00-0213 EA 3" N-Pattern Flanged Double Check Valve Assembly With Outside Stem And Yoke Shutoffs (Watts 757N OSY Series).....	5,721.42	380.65
<i>For Work In Restricted Working Space, Add</i>	<i>150.14</i>	
<i>For Owner Furnished Material, Deduct</i>	<i>-5,220.94</i>	
22 11 19 00-0214 EA 4" N-Pattern Flanged Double Check Valve Assembly With Outside Stem And Yoke Shutoffs (Watts 757 OSY Series).....	7,185.87	563.93
<i>For Work In Restricted Working Space, Add</i>	<i>225.43</i>	
<i>For Owner Furnished Material, Deduct</i>	<i>-6,434.44</i>	
22 11 19 00-0215 EA 6" N-Pattern Flanged Double Check Valve Assembly With Outside Stem And Yoke Shutoffs (Watts 757N OSY Series).....	11,695.11	774.47
<i>For Work In Restricted Working Space, Add</i>	<i>419.72</i>	
<i>For Owner Furnished Material, Deduct</i>	<i>-10,296.06</i>	
22 11 19 00-0216 EA 8" N-Pattern Flanged Double Check Valve Assembly With Outside Stem And Yoke Shutoffs (Watts 757N OSY Series).....	20,691.66	1,161.71
<i>For Work In Restricted Working Space, Add</i>	<i>629.57</i>	
<i>For Owner Furnished Material, Deduct</i>	<i>-18,593.09</i>	
22 11 19 00-0217 EA 10" N-Pattern Flanged Double Check Valve Assembly With Outside Stem And Yoke Shutoffs (Watts 757N OSY Series).....	24,622.95	1,374.06
<i>For Work In Restricted Working Space, Add</i>	<i>749.49</i>	
<i>For Owner Furnished Material, Deduct</i>	<i>-22,124.66</i>	
22 11 19 00-0218 Double Check Valve Assemblies With Non-Rising Stem Shut-Off Valves <small>(22 11 19 00-0179)</small> Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, and single stainless steel housing and sleeve for two check valves (Watts 757 NRS series).		
22 11 19 00-0219 EA 2-1/2" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 757 NRS Series)	3,786.43	338.36
<i>For Work In Restricted Working Space, Add</i>	<i>135.33</i>	
<i>For Owner Furnished Material, Deduct</i>	<i>-3,335.32</i>	
22 11 19 00-0220 EA 3" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 757 NRS Series).....	4,206.38	380.65
<i>For Work In Restricted Working Space, Add</i>	<i>150.14</i>	
<i>For Owner Furnished Material, Deduct</i>	<i>-3,705.90</i>	
22 11 19 00-0221 EA 4" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 757 NRS Series).....	4,827.77	563.93
<i>For Work In Restricted Working Space, Add</i>	<i>225.43</i>	
<i>For Owner Furnished Material, Deduct</i>	<i>-4,076.34</i>	
22 11 19 00-0222 EA 6" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 757 NRS Series).....	7,952.22	774.47
<i>For Work In Restricted Working Space, Add</i>	<i>419.72</i>	
<i>For Owner Furnished Material, Deduct</i>	<i>-6,553.17</i>	
22 11 19 00-0223 EA 8" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 757 NRS series)	15,238.13	1,161.71
<i>For Work In Restricted Working Space, Add</i>	<i>629.57</i>	
<i>For Owner Furnished Material, Deduct</i>	<i>-13,139.56</i>	
22 11 19 00-0224 EA 10" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 757 NRS series).....	17,232.12	1,374.06
<i>For Work In Restricted Working Space, Add</i>	<i>749.49</i>	
<i>For Owner Furnished Material, Deduct</i>	<i>-14,733.83</i>	
22 11 19 00-0225 N-Pattern Double Check Valve Assemblies With Non-Rising Stem Shut-Offs <small>(22 11 19 00-0179)</small> Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, and single stainless steel housing and sleeve for two check valves (Watts 757N NRS series).		
22 11 19 00-0226 EA 2-1/2" N-Pattern Flanged Double Check Valve Assembly With NRS Shutoffs (Watts 757 NRS series).....	4,952.96	338.36
<i>For Work In Restricted Working Space, Add</i>	<i>135.33</i>	
<i>For Owner Furnished Material, Deduct</i>	<i>-4,501.85</i>	
22 11 19 00-0227 EA 3" N-Pattern Flanged Double Check Valve Assembly With NRS Shutoffs (Watts 757 NRS series).....	5,361.40	380.65
<i>For Work In Restricted Working Space, Add</i>	<i>150.14</i>	
<i>For Owner Furnished Material, Deduct</i>	<i>-4,860.92</i>	
22 11 19 00-0228 EA 4" N-Pattern Flanged Double Check Valve Assembly With NRS Shutoffs (Watts 757 NRS series).....	6,826.29	563.93
<i>For Work In Restricted Working Space, Add</i>	<i>225.43</i>	
<i>For Owner Furnished Material, Deduct</i>	<i>-6,074.86</i>	
22 11 19 00-0229 EA 6" N-Pattern Flanged Double Check Valve Assembly With NRS Shutoffs (Watts 757 NRS series).....	11,312.12	774.47
<i>For Work In Restricted Working Space, Add</i>	<i>419.72</i>	
<i>For Owner Furnished Material, Deduct</i>	<i>-9,913.07</i>	
22 11 19 00-0230 EA 8" N-Pattern Flanged Double Check Valve Assembly With NRS Shutoffs (Watts 757 NRS series).....	20,111.97	1,161.71
<i>For Work In Restricted Working Space, Add</i>	<i>629.57</i>	
<i>For Owner Furnished Material, Deduct</i>	<i>-18,013.40</i>	
22 11 19 00-0231 EA 10" N-Pattern Flanged Double Check Valve Assembly With NRS Shutoffs (Watts 757 NRS series).....	24,041.57	1,374.06
<i>For Work In Restricted Working Space, Add</i>	<i>749.49</i>	
<i>For Owner Furnished Material, Deduct</i>	<i>-21,543.28</i>	
22 11 19 00-0232 Double Check Valve Assemblies With Butterfly Shut-Off Valves <small>(22 11 19 00-0179)</small> Note: Includes ball type test cocks, two resilient seated iron body butterfly valves, and single stainless steel housing and sleeve for two check valves (Watts 757 BFG series).		

22 Plumbing
22 10 Plumbing Piping
22 11 Facility Water Distribution



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0233	EA		2-1/2" Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	4,385.39 135.33 -3,934.28	338.36
22 11 19 00-0234	EA		3" Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	4,793.82 150.14 -4,293.34	380.65
22 11 19 00-0235	EA		4" Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	5,403.84 225.43 -4,652.41	563.93
22 11 19 00-0236	EA		6" Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	8,487.60 419.72 -7,088.55	774.47
22 11 19 00-0237	EA		8" Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	15,766.94 629.57 -13,668.37	1,161.71
22 11 19 00-0238			N-Pattern Double Check Valve Assemblies With Butterfly Shut-Offs (22 11 19 00-0179) Note: Includes ball type test cocks, two resilient seated iron body butterfly valves, and single stainless steel housing and sleeve for two check valves (Watts 757N BFG series).		
22 11 19 00-0239	EA		2-1/2" N-Pattern Flanged Double Check Assembly With Butterfly Valves (Watts 757 BFG series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	5,658.69 135.33 -5,207.58	338.36
22 11 19 00-0240	EA		3" N-Pattern Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	6,067.12 150.14 -5,566.64	380.65
22 11 19 00-0241	EA		4" N-Pattern Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	7,531.57 225.43 -6,780.14	563.93
22 11 19 00-0242	EA		6" N-Pattern Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	12,049.60 419.72 -10,650.55	774.47
22 11 19 00-0243	EA		8" N-Pattern Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	15,766.94 629.57 -13,668.37	1,161.71
22 11 19 00-0244			Grooved Double Check Valve Assemblies (22 11 19 00-0163)		
22 11 19 00-0245			Double Check Valve Assemblies With Quarter Turn Shut-Offs (22 11 19 00-0244) Note: Includes ball type test cocks, two quarter turn (QT) resilient seated iron body ball valves, and single stainless steel housing and sleeve for two check valves (Watts 757 QT series).		
22 11 19 00-0246	EA		2-1/2" Grooved Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 757 QT series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	3,786.43 135.33 -3,335.32	180.45
22 11 19 00-0247	EA		3" Grooved Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 757 QT series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	4,206.38 150.14 -3,705.90	200.19
22 11 19 00-0248			N-Patten Double Check Valve Assemblies With Quarter Turn Shut-Offs (22 11 19 00-0244) Note: Includes ball type test cocks, two quarter turn (QT) resilient seated iron body ball valves, and single stainless steel housing and sleeve for two check valves (Watts 757N QT series).		
22 11 19 00-0249	EA		2-1/2" N-Pattern Grooved Double Check Valve Assembly With QT Shutoffs (Watts 757 QT series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	4,952.96 135.33 -4,501.85	180.45
22 11 19 00-0250	EA		3" N-Pattern Grooved Double Check Valve Assembly With QT Shutoffs (Watts 757 QT series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	5,361.40 150.14 -4,860.92	200.19
22 11 19 00-0251			Reduced Pressure Zone Backflow Preventer Assemblies (22 11 19 00-0162)		
22 11 19 00-0252			Threaded Reduced Pressure Zone Assemblies (22 11 19 00-0251)		
22 11 19 00-0253			Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs (22 11 19 00-0252) Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, and captured spring assemblies (Watts 009 QT series).		
22 11 19 00-0254	EA		1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009 QT series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	527.35 26.65 -438.53	35.52
22 11 19 00-0255	EA		3/8" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009 QT series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	557.83 29.40 -459.82	39.20
22 11 19 00-0256	EA		1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009 QT series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	647.30 30.78 -544.70	41.04
22 11 19 00-0257	EA		3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M3 QT series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	870.91 43.64 -725.44	58.19
22 11 19 00-0258	EA		1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	1,034.36 53.29 -856.73	71.05



	Plumbing	22
	Plumbing Piping	22 10
	Facility Water Distribution	22 11

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0259 EA 1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series).....	1,550.68	82.69
For Work In Restricted Working Space, Add	62.02	
For Owner Furnished Material, Deduct	-1,343.95	
22 11 19 00-0260 EA 1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series).....	1,642.98	94.94
For Work In Restricted Working Space, Add	70.75	
For Owner Furnished Material, Deduct	-1,407.16	
22 11 19 00-0261 EA 2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series).....	1,976.09	122.50
For Work In Restricted Working Space, Add	91.88	
For Owner Furnished Material, Deduct	-1,669.82	
22 11 19 00-0262 Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs And Strainer <small>(22 11 19 00-0252)</small>		
Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, bronze strainer, and captured spring assemblies (Watts 009 QT-S series).		
22 11 19 00-0263 EA 1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series).....	580.44	35.52
For Work In Restricted Working Space, Add	26.65	
For Owner Furnished Material, Deduct	-491.62	
22 11 19 00-0264 EA 3/8" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series).....	613.78	39.20
For Work In Restricted Working Space, Add	29.40	
For Owner Furnished Material, Deduct	-515.77	
22 11 19 00-0265 EA 1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series).....	723.97	58.19
For Work In Restricted Working Space, Add	30.78	
For Owner Furnished Material, Deduct	-621.37	
22 11 19 00-0266 EA 3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series).....	991.41	58.19
For Work In Restricted Working Space, Add	43.64	
For Owner Furnished Material, Deduct	-845.94	
22 11 19 00-0267 EA 1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series).....	1,185.02	71.05
For Work In Restricted Working Space, Add	53.29	
For Owner Furnished Material, Deduct	-1,007.39	
22 11 19 00-0268 EA 1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series).....	1,756.15	82.69
For Work In Restricted Working Space, Add	62.02	
For Owner Furnished Material, Deduct	-1,549.42	
22 11 19 00-0269 EA 1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series).....	1,932.95	94.94
For Work In Restricted Working Space, Add	70.75	
For Owner Furnished Material, Deduct	-1,697.13	
22 11 19 00-0270 EA 2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series).....	2,331.84	122.50
For Work In Restricted Working Space, Add	91.88	
For Owner Furnished Material, Deduct	-2,025.57	
22 11 19 00-0271 Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs <small>(22 11 19 00-0252)</small>		
Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, and captured spring assemblies (Watts 919 QT series).		
22 11 19 00-0272 EA 3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 919 QT series).....	870.91	58.19
For Work In Restricted Working Space, Add	43.64	
For Owner Furnished Material, Deduct	-725.44	
22 11 19 00-0273 EA 1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 919 QT series).....	1,034.36	71.05
For Work In Restricted Working Space, Add	53.29	
For Owner Furnished Material, Deduct	-856.73	
22 11 19 00-0274 EA 1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 919 QT series).....	1,550.68	82.69
For Work In Restricted Working Space, Add	62.02	
For Owner Furnished Material, Deduct	-1,343.95	
22 11 19 00-0275 EA 1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 919 QT series).....	1,642.98	94.94
For Work In Restricted Working Space, Add	70.75	
For Owner Furnished Material, Deduct	-1,407.16	
22 11 19 00-0276 EA 2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 919 QT series).....	1,976.09	122.50
For Work In Restricted Working Space, Add	91.88	
For Owner Furnished Material, Deduct	-1,669.82	
22 11 19 00-0277 Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs And Strainer <small>(22 11 19 00-0252)</small>		
Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, bronze strainer, and captured spring assemblies (Watts 919 QT-S series).		
22 11 19 00-0278 EA 3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 919QT-S series).....	991.41	58.19
For Work In Restricted Working Space, Add	43.64	
For Owner Furnished Material, Deduct	-845.94	
22 11 19 00-0279 EA 1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 919QT-S series).....	1,185.02	71.05
For Work In Restricted Working Space, Add	53.29	
For Owner Furnished Material, Deduct	-1,007.39	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0280 EA 1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 919QT-S series).....	1,756.15	82.69
For Work In Restricted Working Space, Add	62.02	
For Owner Furnished Material, Deduct	-1,549.42	
22 11 19 00-0281 EA 1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 919QT-S series).....	1,932.95	94.94
For Work In Restricted Working Space, Add	70.75	
For Owner Furnished Material, Deduct	-1,697.13	
22 11 19 00-0282 EA 2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 919QT-S series).....	2,331.84	122.50
For Work In Restricted Working Space, Add	91.88	
For Owner Furnished Material, Deduct	-2,025.57	
22 11 19 00-0283 Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs <small>(22 11 19 00-0252)</small>		
Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, and captured spring assemblies (Watts 909 QT series).		
22 11 19 00-0284 EA 3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts LF909QT).....	1,765.87	58.19
For Work In Restricted Working Space, Add	43.64	
For Owner Furnished Material, Deduct	-1,620.40	
22 11 19 00-0285 EA 1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts LF909QT).....	2,091.29	71.05
For Work In Restricted Working Space, Add	53.29	
For Owner Furnished Material, Deduct	-1,913.66	
22 11 19 00-0286 EA 1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts LF909M1QT).....	3,204.75	82.69
For Work In Restricted Working Space, Add	62.02	
For Owner Furnished Material, Deduct	-2,998.02	
22 11 19 00-0287 EA 1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts LF909M1QT).....	3,467.08	94.94
For Work In Restricted Working Space, Add	70.75	
For Owner Furnished Material, Deduct	-3,231.26	
22 11 19 00-0288 EA 2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 909M1QT).....	4,028.56	122.50
For Work In Restricted Working Space, Add	91.88	
For Owner Furnished Material, Deduct	-3,722.29	
22 11 19 00-0289 Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs And Strainer <small>(22 11 19 00-0252)</small>		
Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, bronze strainer, and captured spring assemblies (Watts LF909 QT-S series).		
22 11 19 00-0290 EA 3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts LF909QT-S).....	2,368.20	58.19
For Work In Restricted Working Space, Add	43.64	
For Owner Furnished Material, Deduct	-2,222.73	
22 11 19 00-0291 EA 1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts LF909QT-S).....	2,816.10	71.05
For Work In Restricted Working Space, Add	53.29	
For Owner Furnished Material, Deduct	-2,638.47	
22 11 19 00-0292 EA 1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts LF909M1QT-S).....	4,280.65	82.69
For Work In Restricted Working Space, Add	62.02	
For Owner Furnished Material, Deduct	-4,073.92	
22 11 19 00-0293 EA 1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts LF909M1QT-S).....	4,678.01	94.94
For Work In Restricted Working Space, Add	70.75	
For Owner Furnished Material, Deduct	-4,442.19	
22 11 19 00-0294 EA 2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts LF909M1QT-S).....	5,561.94	122.50
For Work In Restricted Working Space, Add	91.88	
For Owner Furnished Material, Deduct	-5,255.67	
22 11 19 00-0295 Flanged Reduced Pressure Zone Assemblies <small>(22 11 19 00-0251)</small>		
22 11 19 00-0296 Reduced Pressure Zone Assemblies With Non-Rising Stem Shut-Offs <small>(22 11 19 00-0295)</small>		
Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, and captured spring assemblies (Watts LF009 NRS series).		
22 11 19 00-0297 EA 2-1/2" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF009 NRS series).....	5,793.91	338.36
For Work In Restricted Working Space, Add	135.34	
For Owner Furnished Material, Deduct	-5,342.77	
22 11 19 00-0298 EA 3" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF009 NRS series).....	6,526.97	380.65
For Work In Restricted Working Space, Add	150.14	
For Owner Furnished Material, Deduct	-6,026.49	
22 11 19 00-0299 Reduced Pressure Zone Assemblies With Non-Rising Stem Shut-Off And Strainer <small>(22 11 19 00-0295)</small>		
Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, iron body strainer, and captured spring assemblies (Watts LF009 NRS-S-FDA series).		
22 11 19 00-0300 EA 2-1/2" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF009 NRS-S-FDA series).....	6,889.64	338.36
For Work In Restricted Working Space, Add	135.34	
For Owner Furnished Material, Deduct	-6,438.50	
22 11 19 00-0301 EA 3" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF009 NRS-S-FDA series).....	7,799.91	380.65
For Work In Restricted Working Space, Add	150.14	
For Owner Furnished Material, Deduct	-7,299.43	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0302 Reduced Pressure Zone Assemblies With Outside Stem And Yoke Shut-Offs <small>(22 11 19 00-0295)</small> Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and captured spring assemblies (Watts LF009 OSY series).		
22 11 19 00-0303 EA 2-1/2" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF009 OSY series).....	6,213.30	338.36
<i>For Work In Restricted Working Space, Add</i>	135.34	
<i>For Owner Furnished Material, Deduct</i>	-5,762.16	
22 11 19 00-0304 EA 3" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF009 OSY series).....	7,223.99	380.65
<i>For Work In Restricted Working Space, Add</i>	150.14	
<i>For Owner Furnished Material, Deduct</i>	-6,723.51	
22 11 19 00-0305 Reduced Pressure Zone Assemblies With Outside Stem And Yoke Shut-Offs And Strainer <small>(22 11 19 00-0295)</small> Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and captured spring assemblies. (Watts LF009 OSY-S-FDA Series)		
22 11 19 00-0306 EA 2-1/2" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs And Strainer (Watts LF009 OSY-S-FDA series).....	6,889.64	338.36
<i>For Work In Restricted Working Space, Add</i>	135.34	
<i>For Owner Furnished Material, Deduct</i>	-6,438.50	
22 11 19 00-0307 EA 3" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs And Strainer (Watts LF009 OSY-S-FDA series).....	7,799.91	380.65
<i>For Work In Restricted Working Space, Add</i>	150.14	
<i>For Owner Furnished Material, Deduct</i>	-7,299.43	
22 11 19 00-0308 Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs <small>(22 11 19 00-0295)</small> Note: Includes ball type test cocks, two quarter turn (QT) resilient seated iron body ball valves, and captured spring assemblies (Watts LF009 QT-FDA series).		
22 11 19 00-0309 EA 2-1/2" Flanged Reduced Pressure Zone Assembly With QT Shut-offs (Watts LF009 QT-FDA series).....	7,638.34	338.36
<i>For Work In Restricted Working Space, Add</i>	135.34	
<i>For Owner Furnished Material, Deduct</i>	-7,187.20	
22 11 19 00-0310 EA 3" Flanged Reduced Pressure Zone Assembly With QT Shut-offs (Watts LF009 QT-FDA series).....	8,835.09	380.65
<i>For Work In Restricted Working Space, Add</i>	150.14	
<i>For Owner Furnished Material, Deduct</i>	-8,334.61	
22 11 19 00-0311 Reduced Pressure Zone Assemblies With Non-Rising Stem Shut-Offs <small>(22 11 19 00-0295)</small> Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, and captured spring assemblies (Watts LF909 NRS series).		
22 11 19 00-0312 EA 2-1/2" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF909 NRS series).....	9,885.87	338.36
<i>For Work In Restricted Working Space, Add</i>	135.33	
<i>For Owner Furnished Material, Deduct</i>	-9,434.76	
22 11 19 00-0313 EA 3" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF909 NRS series).....	11,228.86	380.65
<i>For Work In Restricted Working Space, Add</i>	150.15	
<i>For Owner Furnished Material, Deduct</i>	-10,728.37	
22 11 19 00-0314 EA 4" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF909 NRS series).....	14,163.07	563.93
<i>For Work In Restricted Working Space, Add</i>	225.45	
<i>For Owner Furnished Material, Deduct</i>	-13,411.57	
22 11 19 00-0315 EA 6" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF909 NRS series).....	21,445.37	774.47
<i>For Work In Restricted Working Space, Add</i>	587.64	
<i>For Owner Furnished Material, Deduct</i>	-19,486.58	
22 11 19 00-0316 EA 8" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF909M1 NRS series).....	35,526.81	1,161.71
<i>For Work In Restricted Working Space, Add</i>	881.45	
<i>For Owner Furnished Material, Deduct</i>	-32,588.63	
22 11 19 00-0317 EA 10" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF909M1 NRS series).....	45,661.19	1,374.06
<i>For Work In Restricted Working Space, Add</i>	749.49	
<i>For Owner Furnished Material, Deduct</i>	-43,162.90	
22 11 19 00-0318 Reduced Pressure Zone Assemblies With Non-Rising Stem Shut-Off And Epoxy Coated Strainer <small>(22 11 19 00-0295)</small> Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, iron body strainer, and captured spring assemblies (Watts LF909 NRS-S-FDA series).		
22 11 19 00-0319 EA 2-1/2" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF909 NRS-S-FDA series).....	10,646.38	338.36
<i>For Work In Restricted Working Space, Add</i>	135.33	
<i>For Owner Furnished Material, Deduct</i>	-10,195.27	
22 11 19 00-0320 EA 3" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF909 NRS-S-FDA series).....	12,029.23	380.65
<i>For Work In Restricted Working Space, Add</i>	150.14	
<i>For Owner Furnished Material, Deduct</i>	-11,528.75	
22 11 19 00-0321 EA 4" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF909 NRS-S-FDA series).....	15,390.16	563.93
<i>For Work In Restricted Working Space, Add</i>	225.43	
<i>For Owner Furnished Material, Deduct</i>	-14,638.73	
22 11 19 00-0322 EA 6" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF909 NRS-S-FDA series).....	23,195.44	774.47
<i>For Work In Restricted Working Space, Add</i>	419.72	
<i>For Owner Furnished Material, Deduct</i>	-21,796.39	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0323 EA 8" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF909 NRS-S-FDA series).....	37,538.89	1,161.71
For Work In Restricted Working Space, Add	629.57	
For Owner Furnished Material, Deduct	-35,440.32	
22 11 19 00-0324 EA 10" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF909 NRS-S-FDA series).....	50,896.87	1,374.06
For Work In Restricted Working Space, Add	749.49	
For Owner Furnished Material, Deduct	-48,398.58	
22 11 19 00-0325 Reduced Pressure Zone Assemblies With Outside Stem And Yoke Shut-Offs (22 11 19 00-0295)		
Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and captured spring assemblies (Watts LF909 OSY series).		
22 11 19 00-0326 EA 2-1/2" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF909 OSY series).....	10,512.00	338.36
For Work In Restricted Working Space, Add	135.33	
For Owner Furnished Material, Deduct	-10,060.89	
22 11 19 00-0327 EA 3" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF909 OSY series).....	11,946.55	380.65
For Work In Restricted Working Space, Add	150.15	
For Owner Furnished Material, Deduct	-11,446.06	
22 11 19 00-0328 EA 4" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF909 OSY series).....	15,055.01	563.93
For Work In Restricted Working Space, Add	225.45	
For Owner Furnished Material, Deduct	-14,303.51	
22 11 19 00-0329 EA 6" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF909 OSY series).....	22,185.85	774.47
For Work In Restricted Working Space, Add	419.72	
For Owner Furnished Material, Deduct	-20,786.80	
22 11 19 00-0330 EA 8" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF909M1 OSY series).....	36,860.78	1,161.71
For Work In Restricted Working Space, Add	629.57	
For Owner Furnished Material, Deduct	-34,762.21	
22 11 19 00-0331 EA 10" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF909M1 OSY series).....	48,537.10	1,374.06
For Work In Restricted Working Space, Add	749.49	
For Owner Furnished Material, Deduct	-46,038.81	
22 11 19 00-0332 Double Check Detector Assemblies (22 11 19 00-0162)		
22 11 19 00-0333 Flanged Double Check Detector Assemblies With Meter (22 11 19 00-0332)		
22 11 19 00-0334 Double Check Detector Assembly With Outside Stem And Yoke Shut-Offs And Meter (22 11 19 00-0333)		
Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, two epoxy coated iron body check valves, and meter (Watts 709 DCDA OSY series).		
22 11 19 00-0335 EA 3" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 007 DCDA OSY series).....	7,918.12	380.65
For Work In Restricted Working Space, Add	150.14	
For Owner Furnished Material, Deduct	-7,417.64	
22 11 19 00-0336 EA 4" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 007 DCDA OSY series).....	8,341.18	563.93
For Work In Restricted Working Space, Add	225.43	
For Owner Furnished Material, Deduct	-7,589.75	
22 11 19 00-0337 EA 6" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 007 DCDA OSY series).....	11,254.61	774.47
For Work In Restricted Working Space, Add	419.72	
For Owner Furnished Material, Deduct	-9,855.56	
22 11 19 00-0338 EA 8" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 007 DCDA OSY series).....	19,913.06	1,161.71
For Work In Restricted Working Space, Add	629.57	
For Owner Furnished Material, Deduct	-17,814.49	
22 11 19 00-0339 EA 10" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 007 DCDA OSY series).....	26,844.68	1,374.06
For Work In Restricted Working Space, Add	749.49	
For Owner Furnished Material, Deduct	-24,346.39	
22 11 19 00-0340 Double Check Detector Assembly With Outside Stem And Yoke Shut-Offs And Meter (22 11 19 00-0333)		
Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, single stainless steel housing and sleeve for two check valves, and meter (Watts 757 DCDA OSY series).		
22 11 19 00-0341 EA 2-1/2" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 757 DCDA OSY series).....	5,946.38	338.36
For Work In Restricted Working Space, Add	135.34	
For Owner Furnished Material, Deduct	-5,495.24	
22 11 19 00-0342 EA 3" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 757 DCDA OSY series).....	6,354.42	380.65
For Work In Restricted Working Space, Add	150.14	
For Owner Furnished Material, Deduct	-5,853.94	
22 11 19 00-0343 EA 4" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 757 DCDA OSY series).....	6,972.93	563.93
For Work In Restricted Working Space, Add	225.43	
For Owner Furnished Material, Deduct	-6,221.50	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0344 EA 6" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 757 DCDA OSY series).....	9,477.59	774.47
<i>For Work In Restricted Working Space, Add</i>	419.72	
<i>For Owner Furnished Material, Deduct</i>	-8,078.54	
22 11 19 00-0345 EA 8" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 757 DCDA OSY series).....	16,701.26	1,161.71
<i>For Work In Restricted Working Space, Add</i>	629.57	
<i>For Owner Furnished Material, Deduct</i>	-14,602.69	
22 11 19 00-0346 EA 10" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 757 DCDA OSY series).....	19,698.31	1,374.06
<i>For Work In Restricted Working Space, Add</i>	749.49	
<i>For Owner Furnished Material, Deduct</i>	-17,200.02	
22 11 19 00-0347 Double Check Detector Assembly With Butterfly Valves And Meter <small>(22 11 19 00-0333)</small>		
<small>Note: Includes ball type test cocks, two resilient seated iron body butterfly valves, single stainless steel housing and sleeve for two check valves, and meter (Watts 757 DCDA BFG series).</small>		
22 11 19 00-0348 EA 2-1/2" Flanged Double Check Detector Assembly With Butterfly Valves And Meter (Watts 757 DCDA BFG series).....	6,292.16	338.36
<i>For Work In Restricted Working Space, Add</i>	135.34	
<i>For Owner Furnished Material, Deduct</i>	-5,841.02	
22 11 19 00-0349 EA 3" Flanged Double Check Detector Assembly With Butterfly Valves And Meter (Watts 757 DCDA BFG series).....	6,700.19	380.65
<i>For Work In Restricted Working Space, Add</i>	150.14	
<i>For Owner Furnished Material, Deduct</i>	-6,199.71	
22 11 19 00-0350 EA 4" Flanged Double Check Detector Assembly With Butterfly Valves And Meter (Watts 757 DCDA BFG series).....	7,318.63	563.93
<i>For Work In Restricted Working Space, Add</i>	225.43	
<i>For Owner Furnished Material, Deduct</i>	-6,567.20	
22 11 19 00-0351 EA 6" Flanged Double Check Detector Assembly With Butterfly Valves And Meter (Watts 757 DCDA BFG series).....	9,832.01	774.47
<i>For Work In Restricted Working Space, Add</i>	419.72	
<i>For Owner Furnished Material, Deduct</i>	-8,432.96	
22 11 19 00-0352 EA 8" Flanged Double Check Detector Assembly With Butterfly Valves And Meter (Watts 757 DCDA BFG series).....	16,276.04	1,161.71
<i>For Work In Restricted Working Space, Add</i>	629.57	
<i>For Owner Furnished Material, Deduct</i>	-14,177.47	
22 11 19 00-0353 Flanged Double Check Detector Assemblies Without Meter <small>(22 11 19 00-0332)</small>		
22 11 19 00-0354 Double Check Detector Assembly With Outside Stem And Yoke Shut-Offs Less Meter <small>(22 11 19 00-0353)</small>		
<small>Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, single stainless steel housing and sleeve for two check valves (Watts 757 DCDA OSY LM series).</small>		
22 11 19 00-0355 EA 2-1/2" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs Less Meter (Watts 757 DCDA OSY LM series).....	5,837.21	338.36
<i>For Work In Restricted Working Space, Add</i>	135.34	
22 11 19 00-0356 EA 3" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs Less Meter (Watts 757 DCDA OSY LM series).....	6,245.29	380.65
<i>For Work In Restricted Working Space, Add</i>	150.14	
22 11 19 00-0357 EA 4" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs Less Meter (Watts 757 DCDA OSY LM series).....	6,863.80	563.93
<i>For Work In Restricted Working Space, Add</i>	225.43	
22 11 19 00-0358 EA 6" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs Less Meter (Watts 757 DCDA OSY LM series).....	9,368.46	774.47
<i>For Work In Restricted Working Space, Add</i>	419.72	
22 11 19 00-0359 EA 8" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs Less Meter (Watts 757 DCDA OSY LM series).....	16,592.21	1,161.71
<i>For Work In Restricted Working Space, Add</i>	629.57	
22 11 19 00-0360 EA 10" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs Less Meter (Watts 757 DCDA OSY LM series).....	19,589.11	1,374.06
<i>For Work In Restricted Working Space, Add</i>	749.49	
22 11 19 00-0361 Double Check Detector Assembly With Butterfly Valves Less Meter <small>(22 11 19 00-0353)</small>		
<small>Note: Includes ball type test cocks, two butterfly resilient seated iron body butterfly valves, single stainless steel housing and sleeve for two check valves (Watts 757 DCDA BFG LM series).</small>		
22 11 19 00-0362 EA 2-1/2" Flanged Double Check Detector Assembly With Butterfly Valves Less Meter (Watts 757 DCDA BFG LM series).....	6,182.95	338.36
<i>For Work In Restricted Working Space, Add</i>	135.34	
22 11 19 00-0363 EA 3" Flanged Double Check Detector Assembly With Butterfly Valves Less Meter (Watts 757 DCDA BFG LM series).....	6,590.99	380.65
<i>For Work In Restricted Working Space, Add</i>	150.14	
22 11 19 00-0364 EA 4" Flanged Double Check Detector Assembly With Butterfly Valves Less Meter (Watts 757 DCDA BFG LM series).....	7,209.50	563.93
<i>For Work In Restricted Working Space, Add</i>	225.43	
22 11 19 00-0365 EA 6" Flanged Double Check Detector Assembly With Butterfly Valves Less Meter (Watts 757 DCDA BFG LM series).....	9,722.80	774.47
<i>For Work In Restricted Working Space, Add</i>	419.72	
22 11 19 00-0366 EA 8" Flanged Double Check Detector Assembly With Butterfly Valves Less Meter (Watts 757 DCDA BFG LM series).....	16,946.62	1,161.71
<i>For Work In Restricted Working Space, Add</i>	629.57	
22 11 19 00-0367 Flanged Double Check Detector Assemblies <small>(22 11 19 00-0332)</small>		
22 11 19 00-0368 Double Check Detector Assembly With Outside Stem And Yoke Shut-Offs <small>(22 11 19 00-0367)</small>		
<small>Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, single stainless steel housing and sleeve for two check valves, and meter (Watts 774 DCDA OSY series).</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0369 EA 2-1/2" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs (Watts 774 DCDA OSY series).....	5,639.67	338.36
For Work In Restricted Working Space, Add	135.34	
For Owner Furnished Material, Deduct	-5,188.53	
22 11 19 00-0370 EA 3" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs (Watts 774 DCDA OSY series).....	6,816.63	380.65
For Work In Restricted Working Space, Add	150.14	
For Owner Furnished Material, Deduct	-6,316.15	
22 11 19 00-0371 EA 4" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs (Watts 774 DCDA OSY series).....	7,603.85	563.93
For Work In Restricted Working Space, Add	225.43	
For Owner Furnished Material, Deduct	-6,852.42	
22 11 19 00-0372 EA 6" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs (Watts 774 DCDA OSY series).....	9,600.46	774.47
For Work In Restricted Working Space, Add	419.72	
For Owner Furnished Material, Deduct	-8,201.41	
22 11 19 00-0373 EA 8" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs (Watts 774 DCDA OSY series).....	16,923.44	1,161.71
For Work In Restricted Working Space, Add	629.57	
For Owner Furnished Material, Deduct	-14,824.87	
22 11 19 00-0374 EA 10" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs (Watts 774 DCDA OSY series).....	22,758.74	1,374.06
For Work In Restricted Working Space, Add	749.49	
For Owner Furnished Material, Deduct	-20,260.45	
22 11 19 00-0375 EA 12" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs (Watts 774 DCDA OSY series).....	30,317.79	1,648.87
For Work In Restricted Working Space, Add	899.39	
For Owner Furnished Material, Deduct	-27,319.84	
22 11 19 00-0376 Backflow Preventer Accessories (22 11 19 00-0162)		
22 11 19 00-0377 Air Gap (22 11 19 00-0376)		
22 11 19 00-0378 EA Up To 1" Diameter Air Gap For Backflow Preventer	138.61	19.14
22 11 19 00-0379 EA 1-1/4" To 2" Diameter Air Gap For Backflow Preventer	170.33	22.97
22 11 19 00-0380 EA 2-1/2" To 3" Diameter Air Gap For Backflow Preventer	314.47	30.63
22 11 19 00-0381 EA 4" To 6" Diameter Air Gap For Backflow Preventer	619.02	53.60
22 11 19 00-0382 EA 8" To 10" Diameter Air Gap For Backflow Preventer	664.95	76.57
22 11 19 00-0383 Brass Test Cocks (22 11 19 00-0376)		
22 11 19 00-0384 EA 1/8" Or 1/4" Brass Test Cock.....	56.37	7.66
22 11 19 00-0385 Backflow Valve Enclosures (22 11 19 00-0162)		
22 11 19 00-0386 Flip-Top, Insulated Fiberglass Valve Enclosures (22 11 19 00-0385)		
Note: Dimensions listed are inside dimensions. Includes anchor kit. Excludes concrete pad.		
22 11 19 00-0387 EA 19" Length x 11" Width x 22" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	1,463.85	137.81
For Heated Enclosure, Add	167.90	
22 11 19 00-0388 EA 27" Length x 13" Width x 23" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	1,777.04	137.81
For Heated Enclosure, Add	214.88	
22 11 19 00-0389 EA 27" Length x 13" Width x 35" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	2,218.13	126.88
For Heated Enclosure, Add	285.14	
22 11 19 00-0390 EA 33" Length x 21" Width x 25" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	2,332.03	169.18
For Heated Enclosure, Add	286.36	
22 11 19 00-0391 EA 39" Length x 13" Width x 28" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	2,438.24	169.18
For Heated Enclosure, Add	302.30	
22 11 19 00-0392 EA 47" Length x 13" Width x 28" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	2,852.20	169.18
For Heated Enclosure, Add	364.39	
22 11 19 00-0393 EA 39" Length x 13" Width x 36" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	2,863.09	169.18
For Heated Enclosure, Add	366.02	
22 11 19 00-0394 EA 47" Length x 13" Width x 36" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	3,568.44	169.18
For Heated Enclosure, Add	471.83	
22 11 19 00-0395 EA 70" Length x 26" Width x 45" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	8,120.99	253.77
For Heated Enclosure, Add	1,122.99	
22 11 19 00-0396 EA 83" Length x 26" Width x 45" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	11,680.45	253.77
For Heated Enclosure, Add	1,656.90	
22 11 19 00-0397 EA 70" Length x 26" Width x 55" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	11,108.54	253.77
For Heated Enclosure, Add	1,571.12	
22 11 19 00-0398 EA 83" Length x 26" Width x 55" Height, Flip-Top, Insulated Fiberglass Valve Enclosure	13,368.46	296.06
For Heated Enclosure, Add	1,894.25	
22 11 19 00-0399 One-Piece Drop Over, Insulated Fiberglass Valve Enclosures (22 11 19 00-0385)		
Note: Dimensions listed are inside dimensions. Includes anchor kit. Excludes concrete pad.		
22 11 19 00-0400 EA 20" Length x 6-1/2" Width x 22" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure.....	742.10	36.75
For Heated Enclosure, Add	136.17	
22 11 19 00-0401 EA 27" Length x 14" Width x 26" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure	1,030.78	36.75
For Heated Enclosure, Add	193.90	
22 11 19 00-0402 EA 38-1/2" Length x 12" Width x 28" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure.....	1,292.80	33.84
For Heated Enclosure, Add	247.28	
22 11 19 00-0403 EA 47" Length x 13" Width x 28" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure	1,951.86	33.84
For Heated Enclosure, Add	379.09	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	22 11 19 00-0404	EA		70" Length x 26" Width x 45" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure.....	5,051.40	63.44
				<i>For Heated Enclosure, Add</i>	989.13	
	22 11 19 00-0405	EA		83" Length x 26" Width x 45" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure.....	6,895.13	63.44
				<i>For Heated Enclosure, Add</i>	1,357.88	
	22 11 19 00-0406	EA		45" Length x 35" Width x 35" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure.....	4,593.87	63.44
				<i>For Heated Enclosure, Add</i>	897.63	
	22 11 19 00-0407	EA		53" Length x 44" Width x 44" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure.....	5,198.46	63.44
				<i>For Heated Enclosure, Add</i>	1,018.54	
	22 11 19 00-0408	EA		61" Length x 52" Width x 50" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure.....	8,131.54	63.44
				<i>For Heated Enclosure, Add</i>	1,605.16	
22 11 19 00-0409	Sectional, Insulated Aluminum Valve Enclosures <small>(22 11 19 00-0385)</small>					
	Note: Dimensions listed are inside dimensions. Includes anchor kit. Excludes concrete pad.					
	22 11 19 00-0410	EA		70" Length x 26" Width x 55" Height, Sectional, Insulated Aluminum Valve Enclosure.....	10,471.27	253.77
				<i>For Heated Enclosure, Add</i>	1,475.53	
				<i>For One 24" Fluorescent Light Fixture, Add</i>	820.86	
				<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,468.91	
	22 11 19 00-0411	EA		83" Length x 26" Width x 55" Height, Sectional, Insulated Aluminum Valve Enclosure.....	11,525.22	253.77
				<i>For Heated Enclosure, Add</i>	1,633.62	
				<i>For One 24" Fluorescent Light Fixture, Add</i>	820.86	
				<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,468.91	
	22 11 19 00-0412	EA		53" Length x 33" Width x 44" Height, Sectional, Insulated Aluminum Valve Enclosure.....	8,248.99	253.77
				<i>For Heated Enclosure, Add</i>	1,142.19	
				<i>For One 24" Fluorescent Light Fixture, Add</i>	820.86	
				<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,468.91	
	22 11 19 00-0413	EA		53" Length x 44" Width x 44" Height, Sectional, Insulated Aluminum Valve Enclosure.....	9,027.88	253.77
				<i>For Heated Enclosure, Add</i>	1,259.02	
				<i>For One 24" Fluorescent Light Fixture, Add</i>	820.86	
				<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,468.91	
	22 11 19 00-0414	EA		90" Length x 32" Width x 50-1/2" Height, Sectional, Insulated Aluminum Valve Enclosure.....	10,538.39	338.36
				<i>For Heated Enclosure, Add</i>	1,453.88	
				<i>For One 24" Fluorescent Light Fixture, Add</i>	820.86	
				<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,468.91	
	22 11 19 00-0415	EA		102" Length x 32" Width x 50-1/2" Height, Sectional, Insulated Aluminum Valve Enclosure.....	11,785.70	338.36
				<i>For Heated Enclosure, Add</i>	1,640.97	
				<i>For One 24" Fluorescent Light Fixture, Add</i>	820.86	
				<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,468.91	
	22 11 19 00-0416	EA		90" Length x 32" Width x 57-1/2" Height, Sectional, Insulated Aluminum Valve Enclosure.....	11,785.70	338.36
				<i>For Heated Enclosure, Add</i>	1,640.97	
				<i>For One 24" Fluorescent Light Fixture, Add</i>	820.86	
				<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,468.91	
	22 11 19 00-0417	EA		102" Length x 32" Width x 57-1/2" Height, Sectional, Insulated Aluminum Valve Enclosure.....	12,994.88	338.36
				<i>For Heated Enclosure, Add</i>	1,822.35	
				<i>For One 24" Fluorescent Light Fixture, Add</i>	820.86	
				<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,468.91	
	22 11 19 00-0418	EA		62" Length x 39" Width x 46" Height, Sectional, Insulated Aluminum Valve Enclosure.....	9,789.94	296.06
				<i>For Heated Enclosure, Add</i>	1,357.47	
				<i>For One 24" Fluorescent Light Fixture, Add</i>	820.86	
				<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,468.91	
	22 11 19 00-0419	EA		62" Length x 53" Width x 46" Height, Sectional, Insulated Aluminum Valve Enclosure.....	11,456.17	338.36
				<i>For Heated Enclosure, Add</i>	1,591.54	
				<i>For One 24" Fluorescent Light Fixture, Add</i>	820.86	
				<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,468.91	
	22 11 19 00-0420	EA		105" Length x 36" Width x 53" Height, Sectional, Insulated Aluminum Valve Enclosure.....	13,343.47	338.36
				<i>For Heated Enclosure, Add</i>	1,874.64	
				<i>For One 24" Fluorescent Light Fixture, Add</i>	820.86	
				<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,468.91	
	22 11 19 00-0421	EA		125" Length x 36" Width x 53" Height, Sectional, Insulated Aluminum Valve Enclosure.....	14,638.20	359.50
				<i>For Heated Enclosure, Add</i>	2,060.92	
				<i>For One 24" Fluorescent Light Fixture, Add</i>	820.86	
				<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,468.91	
	22 11 19 00-0422	EA		105" Length x 36" Width x 64" Height, Sectional, Insulated Aluminum Valve Enclosure.....	14,951.39	359.50
				<i>For Heated Enclosure, Add</i>	2,107.90	
				<i>For One 24" Fluorescent Light Fixture, Add</i>	820.86	
				<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,468.91	
	22 11 19 00-0423	EA		125" Length x 36" Width x 64" Height, Sectional, Insulated Aluminum Valve Enclosure.....	16,562.03	380.65
				<i>For Heated Enclosure, Add</i>	2,341.56	
				<i>For One 24" Fluorescent Light Fixture, Add</i>	820.86	
				<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,468.91	
	22 11 19 00-0424	EA		105" Length x 36" Width x 80" Height, Sectional, Insulated Aluminum Valve Enclosure.....	17,185.69	380.65
				<i>For Heated Enclosure, Add</i>	2,435.11	
				<i>For One 24" Fluorescent Light Fixture, Add</i>	820.86	
				<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,468.91	
	22 11 19 00-0425	EA		72" Length x 45" Width x 52" Height, Sectional, Insulated Aluminum Valve Enclosure.....	12,526.46	338.36
				<i>For Heated Enclosure, Add</i>	1,752.09	
				<i>For One 24" Fluorescent Light Fixture, Add</i>	820.86	
				<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,468.91	
	22 11 19 00-0426	EA		72" Length x 45" Width x 60" Height, Sectional, Insulated Aluminum Valve Enclosure.....	13,335.30	338.36
				<i>For Heated Enclosure, Add</i>	1,873.41	
				<i>For One 24" Fluorescent Light Fixture, Add</i>	820.86	
				<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,468.91	
	22 11 19 00-0427	EA		72" Length x 65" Width x 52" Height, Sectional, Insulated Aluminum Valve Enclosure.....	15,071.22	359.50
				<i>For Heated Enclosure, Add</i>	2,125.87	
				<i>For One 24" Fluorescent Light Fixture, Add</i>	820.86	
				<i>For Two 24" Fluorescent Light Fixture, Add</i>	1,468.91	

22 Plumbing
22 10 Plumbing Piping
22 11 Facility Water Distribution



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0428	EA		72" Length x 65" Width x 60" Height, Sectional, Insulated Aluminum Valve Enclosure For Heated Enclosure, Add For One 24" Fluorescent Light Fixture, Add For Two 24" Fluorescent Light Fixture, Add	18,223.30 2,590.75 820.86 1,468.91	380.65
22 11 19 00-0429	EA		118" Length x 40" Width x 58" Height, Sectional, Insulated Aluminum Valve Enclosure For Heated Enclosure, Add For One 24" Fluorescent Light Fixture, Add For Two 24" Fluorescent Light Fixture, Add	15,938.38 2,248.01 820.86 1,468.91	380.65
22 11 19 00-0430	EA		142" Length x 40" Width x 58" Height, Sectional, Insulated Aluminum Valve Enclosure For Heated Enclosure, Add For One 24" Fluorescent Light Fixture, Add For Two 24" Fluorescent Light Fixture, Add	19,109.52 2,715.75 820.86 1,468.91	401.80
22 11 19 00-0431	EA		118" Length x 40" Width x 74" Height, Sectional, Insulated Aluminum Valve Enclosure For Heated Enclosure, Add For One 24" Fluorescent Light Fixture, Add For Two 24" Fluorescent Light Fixture, Add	18,485.87 2,622.21 820.86 1,468.91	401.80
22 11 19 00-0432	EA		142" Length x 40" Width x 74" Height, Sectional, Insulated Aluminum Valve Enclosure For Heated Enclosure, Add For One 24" Fluorescent Light Fixture, Add For Two 24" Fluorescent Light Fixture, Add	21,379.21 3,048.28 820.86 1,468.91	422.94
22 11 19 00-0433	EA		142" Length x 42" Width x 65" Height, Sectional, Insulated Aluminum Valve Enclosure For Heated Enclosure, Add For One 24" Fluorescent Light Fixture, Add For Two 24" Fluorescent Light Fixture, Add	19,786.03 2,809.30 820.86 1,468.91	422.94
22 11 19 00-0434	EA		172" Length x 42" Width x 65" Height, Sectional, Insulated Aluminum Valve Enclosure For Heated Enclosure, Add For One 24" Fluorescent Light Fixture, Add For Two 24" Fluorescent Light Fixture, Add	23,049.78 3,290.93 820.86 1,468.91	444.09
22 11 19 00-0435	EA		142" Length x 42" Width x 85" Height, Sectional, Insulated Aluminum Valve Enclosure For Heated Enclosure, Add For One 24" Fluorescent Light Fixture, Add For Two 24" Fluorescent Light Fixture, Add	23,102.64 3,290.93 820.86 1,468.91	465.24
22 11 19 00-0436	EA		172" Length x 42" Width x 85" Height, Sectional, Insulated Aluminum Valve Enclosure For Heated Enclosure, Add For One 24" Fluorescent Light Fixture, Add For Two 24" Fluorescent Light Fixture, Add	27,335.90 3,917.99 820.86 1,468.91	486.39
22 11 19 00-0437			Faucets (Hose Bibbs) <small>(22 11 19)</small>		
22 11 19 00-0438			Bronze Garden Hose Valves (Hose Bibbs), Screwed Ends <small>(22 11 19 00-0437)</small>		
22 11 19 00-0439	EA		1/2", 125 LB Bronze Garden Hose Valves (Hose Bibbs), Screwed Ends	78.40	15.31
22 11 19 00-0440	EA		3/4", 125 LB Bronze Garden Hose Valves (Hose Bibbs), Screwed Ends	91.26	16.85
22 11 19 00-0441	EA		3/4" Screwed Ends Vacuum Breaker (Mueller 108-904NL).....	22.74	11.49
22 11 19 00-0442			Chrome Plated Brass Hose Valves, Screwed Ends <small>(22 11 19 00-0437)</small>		
22 11 19 00-0443	EA		3/4" Hose Valve With Screwed Ends (Chicago Faucets #387-CP).....	238.37	46.86
22 11 19 00-0444			Antisiphon Freezeless Wall Faucet (Woodford 19CP) <small>(22 11 19 00-0437)</small>		
22 11 19 00-0445	EA		4" Long, 1/2" Antisiphon Freezeless Wall Faucet	163.37	38.28
22 11 19 00-0446	EA		6" Long, 1/2" Antisiphon Freezeless Wall Faucet	177.86	42.42
22 11 19 00-0447	EA		8" Long, 1/2" Antisiphon Freezeless Wall Faucet	188.52	44.87
22 11 19 00-0448	EA		10" Long, 1/2" Antisiphon Freezeless Wall Faucet	199.17	48.08
22 11 19 00-0449	EA		12" Long, 1/2" Antisiphon Freezeless Wall Faucet	209.99	50.99
22 11 19 00-0450			Escutcheons <small>(22 11 19)</small>		
22 11 19 00-0451			Brass Escutcheons <small>(22 11 19 00-0450)</small>		
22 11 19 00-0452			Shallow Brass Escutcheons <small>(22 11 19 00-0451)</small>		
22 11 19 00-0453	EA		3/8" IPS, Antique Or Polished Brass Shallow Escutcheon.....	15.45	3.83
22 11 19 00-0454	EA		1/2" IPS, Antique Or Polished Brass Shallow Escutcheon.....	16.50	3.83
22 11 19 00-0455			Deep Bell Brass Escutcheons <small>(22 11 19 00-0451)</small>		
22 11 19 00-0456	EA		3/8" IPS, Antique Or Polished Deep Bell Brass Escutcheon.....	17.87	4.29
22 11 19 00-0457	EA		1/2" IPS, Antique Or Polished Deep Bell Brass Escutcheon.....	17.91	4.29
22 11 19 00-0458			Chrome Plated Brass Escutcheons With Setscrew <small>(22 11 19 00-0451)</small>		
22 11 19 00-0459	EA		3/8" IPS, Chrome Plated Brass Escutcheon With Setscrew	25.22	3.83
22 11 19 00-0460	EA		1/2" IPS, Chrome Plated Brass Escutcheon With Setscrew	25.46	3.83
22 11 19 00-0461	EA		5/8" IPS, Chrome Plated Brass Escutcheon With Setscrew	25.83	3.83
22 11 19 00-0462	EA		3/4" IPS, Chrome Plated Brass Escutcheon With Setscrew	27.16	3.83
22 11 19 00-0463	EA		7/8" IPS, Chrome Plated Brass Escutcheon With Setscrew	27.64	4.59
22 11 19 00-0464	EA		1" IPS, Chrome Plated Brass Escutcheon With Setscrew	28.94	4.59
22 11 19 00-0465	EA		1-1/4" IPS, Chrome Plated Brass Escutcheon With Setscrew	30.07	5.06
22 11 19 00-0466	EA		1-1/2" IPS, Chrome Plated Brass Escutcheon With Setscrew	31.50	5.36
22 11 19 00-0467	EA		2" IPS, Chrome Plated Brass Escutcheon With Setscrew	44.63	6.12



	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0468		Plastic Escutcheons <small>(22 11 19 00-0450)</small>		
22 11 19 00-0469		Split-Ring White Plastic Escutcheons <small>(22 11 19 00-0468)</small>		
22 11 19 00-0470	EA	3/8" IPS, Split-Ring White Plastic Escutcheon.....	9.03	3.81
22 11 19 00-0471	EA	1/2" IPS, Split-Ring White Plastic Escutcheon.....	9.03	3.81
22 11 19 00-0472	EA	3/4" IPS, Split-Ring White Plastic Escutcheon.....	10.45	4.27
22 11 19 00-0473	EA	1" IPS, Split-Ring White Plastic Escutcheon.....	11.34	4.58
22 11 19 00-0474	EA	1-1/4" IPS, Split-Ring White Plastic Escutcheon.....	12.22	5.04
22 11 19 00-0475	EA	1-1/2" IPS, Split-Ring White Plastic Escutcheon.....	13.07	5.34
22 11 19 00-0476	EA	2" IPS, Split-Ring White Plastic Escutcheon.....	14.76	6.10
22 11 19 00-0477	EA	2-1/2" IPS, Split-Ring White Plastic Escutcheon.....	18.46	6.56
22 11 19 00-0478	EA	3" IPS, Split-Ring White Plastic Escutcheon.....	22.17	6.86
22 11 19 00-0479	EA	4" IPS, Split-Ring White Plastic Escutcheon.....	26.64	7.63
22 11 19 00-0480		Chrome Plate Plastic Escutcheons <small>(22 11 19 00-0468)</small>		
22 11 19 00-0481	EA	1/2" IPS, Chrome Plate Plastic Escutcheon.....	11.45	3.81
22 11 19 00-0482	EA	3/4" IPS, Chrome Plate Plastic Escutcheon.....	12.52	4.27
22 11 19 00-0483	EA	1" IPS, Chrome Plate Plastic Escutcheon.....	14.00	4.58
22 11 19 00-0484	EA	1-1/4" IPS, Chrome Plate Plastic Escutcheon.....	15.48	5.04
22 11 19 00-0485	EA	1-1/2" IPS, Chrome Plate Plastic Escutcheon.....	16.35	5.34
22 11 19 00-0486	EA	2" IPS, Chrome Plate Plastic Escutcheon.....	20.35	6.10
22 11 19 00-0487	EA	2-1/2" IPS, Chrome Plate Plastic Escutcheon.....	28.53	6.56
22 11 19 00-0488	EA	3" IPS, Chrome Plate Plastic Escutcheon.....	29.61	6.86
22 11 19 00-0489	EA	4" IPS, Chrome Plate Plastic Escutcheon.....	31.75	7.63
22 11 19 00-0490		Stainless Steel Escutcheons <small>(22 11 19 00-0450)</small>		
22 11 19 00-0491		Shallow Stainless Steel Escutcheons <small>(22 11 19 00-0490)</small>		
22 11 19 00-0492	EA	3/8" IPS, Shallow Stainless Steel Escutcheon.....	20.58	3.83
22 11 19 00-0493	EA	1/2" IPS, Shallow Stainless Steel Escutcheon.....	20.58	3.83
22 11 19 00-0494	EA	3/4" IPS, Shallow Stainless Steel Escutcheon.....	28.50	4.29
22 11 19 00-0495		Chrome Plated Steel Escutcheons <small>(22 11 19 00-0450)</small>		
22 11 19 00-0496		Split-Ring Chrome Plated Steel Escutcheons <small>(22 11 19 00-0495)</small>		
22 11 19 00-0497	EA	1/2" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	8.39	3.81
22 11 19 00-0498	EA	3/4" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	9.15	4.27
22 11 19 00-0499	EA	1" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	10.05	4.58
22 11 19 00-0500	EA	1-1/4" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	10.81	5.04
22 11 19 00-0501	EA	1-1/2" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	11.58	5.34
22 11 19 00-0502	EA	2" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	13.32	6.10
22 11 19 00-0503	EA	2-1/2" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	19.17	6.56
22 11 19 00-0504	EA	3" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	20.36	6.86
22 11 19 00-0505	EA	3-1/2" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	24.66	7.32
22 11 19 00-0506	EA	4" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	22.24	7.63
22 11 19 00-0507	EA	5" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	28.20	8.39
22 11 19 00-0508	EA	6" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	32.68	9.15
22 11 19 00-0509		Split-Ring/Springs Chrome Plated Steel Escutcheons <small>(22 11 19 00-0495)</small>		
22 11 19 00-0510	EA	3/8" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	12.65	3.81
22 11 19 00-0511	EA	1/2" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	12.65	3.81
22 11 19 00-0512	EA	3/4" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	13.57	4.27
22 11 19 00-0513	EA	1" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	14.43	4.58
22 11 19 00-0514	EA	1-1/4" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	16.20	5.04
22 11 19 00-0515	EA	1-1/2" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	17.18	5.34
22 11 19 00-0516	EA	2" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	20.28	6.10
22 11 19 00-0517	EA	2-1/2" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	23.15	6.56
22 11 19 00-0518	EA	3" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	27.94	6.86
22 11 19 00-0519	EA	3-1/2" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	33.93	7.32
22 11 19 00-0520	EA	4" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	34.53	7.63
22 11 19 00-0521	EA	5" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	55.60	8.39
22 11 19 00-0522	EA	6" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	58.18	9.15
22 11 19 00-0523		Deep Bell Chrome Plated Steel Escutcheons <small>(22 11 19 00-0495)</small>		
22 11 19 00-0524	EA	3/8" IPS, Deep Bell Chrome Plated Steel Escutcheon.....	10.16	4.29
22 11 19 00-0525	EA	1/2" IPS, Deep Bell Chrome Plated Steel Escutcheon.....	10.04	4.29
22 11 19 00-0526	EA	3/4" IPS, Deep Bell Chrome Plated Steel Escutcheon.....	9.78	4.29
22 11 19 00-0527	EA	1" IPS, Deep Bell Chrome Plated Steel Escutcheon.....	10.77	4.59
22 11 19 00-0528	EA	1-1/4" IPS, Deep Bell Chrome Plated Steel Escutcheon.....	11.69	5.06
22 11 19 00-0529	EA	1-1/2" IPS, Deep Bell Chrome Plated Steel Escutcheon.....	12.83	5.36
22 11 19 00-0530		Shallow Chrome Plated Steel Escutcheons <small>(22 11 19 00-0495)</small>		
22 11 19 00-0531	EA	3/8" IPS, Shallow Chrome Plated Steel Escutcheon.....	9.28	3.83



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0532 EA 1/2" IPS, Shallow Chrome Plated Steel Escutcheon.....	9.28	3.83
22 11 19 00-0533 EA 3/4" IPS, Shallow Chrome Plated Steel Escutcheon.....	9.40	3.83
22 11 19 00-0534 EA 1" IPS, Shallow Chrome Plated Steel Escutcheon.....	10.03	4.59
22 11 19 00-0535 EA 1-1/4" IPS, Shallow Chrome Plated Steel Escutcheon.....	10.85	5.06
22 11 19 00-0536 EA 1-1/2" IPS, Shallow Chrome Plated Steel Escutcheon.....	11.97	5.36
22 11 19 00-0537 EA 2" IPS, Shallow Chrome Plated Steel Escutcheon.....	13.60	6.12
22 11 19 00-0538 Keyed, Recessed Valve Boxes (22 11 19)		
22 11 19 00-0539 EA 8" x 8" x 4" Painted Steel, Keyed, Recessed Valve Box.....	375.42	45.75
22 11 19 00-0540 EA 8" x 8" x 6" Painted Steel, Keyed, Recessed Valve Box.....	415.99	45.75
22 11 19 00-0541 EA 8" x 8" x 8" Painted Steel, Keyed, Recessed Valve Box.....	476.83	45.75
22 11 19 00-0542 EA 12" x 12" x 4" Painted Steel, Keyed, Recessed Valve Box.....	466.77	61.00
22 11 19 00-0543 EA 12" x 12" x 6" Painted Steel, Keyed, Recessed Valve Box.....	527.61	61.00
22 11 19 00-0544 EA 12" x 12" x 8" Painted Steel, Keyed, Recessed Valve Box.....	545.86	61.00
22 11 19 00-0545 EA 8" x 8" x 4" Stainless Steel, Keyed, Recessed Valve Box.....	440.32	45.75
22 11 19 00-0546 EA 8" x 8" x 6" Stainless Steel, Keyed, Recessed Valve Box.....	529.56	45.75
22 11 19 00-0547 EA 8" x 8" x 8" Stainless Steel, Keyed, Recessed Valve Box.....	608.66	45.75
22 11 19 00-0548 EA 12" x 12" x 4" Stainless Steel, Keyed, Recessed Valve Box.....	580.34	61.00
22 11 19 00-0549 EA 12" x 12" x 6" Stainless Steel, Keyed, Recessed Valve Box.....	659.44	61.00
22 11 19 00-0550 EA 12" x 12" x 8" Stainless Steel, Keyed, Recessed Valve Box.....	689.86	61.00
22 11 23 Domestic Water Pumps (22 11)		
22 11 23 13 Domestic Water Packaged Booster Pumps (22 11 23)		
Note: Includes motor starter and controls.		
22 11 23 13-0001 Simplex Domestic Water Packaged Booster Pumps And Tank (22 11 23 13)		
22 11 23 13-0002 EA 1 HP Simplex Domestic Water Packaged Booster Pump And Tank.....	14,510.01	451.14
22 11 23 13-0003 EA 1.5 HP Simplex Domestic Water Packaged Booster Pump And Tank.....	15,102.02	606.22
22 11 23 13-0004 EA 2 HP Simplex Domestic Water Packaged Booster Pump And Tank.....	15,796.18	761.30
22 11 23 13-0005 EA 3 HP Simplex Domestic Water Packaged Booster Pump And Tank.....	16,439.27	916.37
22 11 23 13-0006 EA 5 HP Simplex Domestic Water Packaged Booster Pump And Tank.....	18,206.04	1,071.45
22 11 23 13-0007 EA 7.5 HP Simplex Domestic Water Packaged Booster Pump And Tank.....	20,228.20	1,226.53
22 11 23 13-0008 EA 10 HP Simplex Domestic Water Packaged Booster Pump And Tank.....	21,637.44	1,381.61
22 11 23 13-0009 Duplex Domestic Water Packaged Booster Pumps And Hydrocumulator (22 11 23 13)		
22 11 23 13-0010 EA 100 GPM Duplex Domestic Water Packaged Booster Pumps And Hydrocumulator.....	39,144.42	1,825.61
22 11 23 13-0011 EA 200 GPM Duplex Domestic Water Packaged Booster Pumps And Hydrocumulator.....	47,114.20	1,939.71
22 11 23 13-0012 EA 300 GPM Duplex Domestic Water Packaged Booster Pumps And Hydrocumulator.....	55,116.55	2,053.81
22 11 23 13-0013 Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator (22 11 23 13)		
22 11 23 13-0014 EA 200 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator.....	51,468.51	1,939.71
22 11 23 13-0015 EA 300 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator.....	64,033.95	2,053.81
22 11 23 13-0016 EA 500 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator.....	79,554.69	2,282.01
22 11 23 13-0017 EA 750 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator.....	100,736.68	2,510.20
22 11 23 13-0018 EA 1,000 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator.....	121,918.67	2,738.40
22 11 23 13-0019 EA 1,750 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator.....	142,018.31	3,080.71
22 11 23 13-0020 EA 2,500 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator.....	162,117.96	3,423.01
22 11 23 13-0021 EA 3,750 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator.....	182,217.61	3,765.31
22 11 23 13-0022 EA 5,000 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator.....	202,602.51	4,221.71
22 11 23 13-0023 Variable Speed Duplex Domestic Water Pressure Booster Skid (22 11 23 13)		
Note: AB1953 compliant, UL listed and labeled. Includes stainless steel headers with check, isolation, thermal relief valves, and start up support. The standard control package is integrated in a NEMA 1 enclosure and is outfitted with an individual VFD's which are controlled through a HOA and internally programmed PID logic for system control.		
22 11 23 13-0024 EA 40 GPM At 40 To 70 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-1).....	42,383.75	1,909.62
22 11 23 13-0025 EA 40 GPM At 80 To 120 PSI, 80 GPM At 50 To 90 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-2).....	44,314.44	1,909.62
22 11 23 13-0026 EA 80 GPM At 80 PSI, 120 GPM At 40 To 90 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-3).....	47,073.17	1,909.62
22 11 23 13-0027 EA 80 GPM At 130 To 150 PSI, 120 GPM At 100 To 150 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-4).....	51,049.85	1,909.62
22 11 23 13-0028 EA 160 GPM At 40 To 50 PSI, 200 GPM At 40 To 50 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-5).....	48,216.36	2,028.97
22 11 23 13-0029 EA 160 GPM At 60 To 80 PSI, 200 GPM At 60 To 70 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-6).....	51,687.83	2,028.97
22 11 23 13-0030 EA 160 GPM At 90 To 110 PSI, 200 GPM At 80 To 100 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-7).....	56,402.41	2,028.97
22 11 23 13-0031 EA 160 To 200 GPM At 120 To 150 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-8).....	60,234.45	2,028.97
22 11 23 13-0032 EA 240 To 280 GPM At 40 To 50 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-9).....	52,675.90	2,148.32
22 11 23 13-0033 EA 280 To 320 GPM At 60 To 70 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-10).....	56,103.35	2,148.32



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 23 13-0034 EA 240 To 320 GPM At 90 To 120 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-11).....	63,767.42	2,148.32
22 11 23 13-0035 EA 240 To 320 GPM At 130 To 150 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-12).....	76,630.32	2,148.32
22 11 23 13-0036 EA 360 To 400 GPM At 40 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-13).....	55,621.20	2,148.32
22 11 23 13-0037 EA 360 To 400 GPM At 50 To 80 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-14).....	62,612.36	2,148.32
22 11 23 13-0038 EA 360 To 400 GPM At 90 To 110 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-15).....	78,001.30	2,148.32
22 11 23 13-0039 EA 360 To 400 GPM At 120 To 140 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-16).....	77,556.88	2,148.32
22 11 23 13-0040 EA 440 To 480 GPM At 150 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-17).....	92,479.75	2,387.02
22 11 23 13-0041 EA 440 To 480 GPM At 40 To 50 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-18).....	63,655.63	2,387.02
22 11 23 13-0042 EA 440 To 480 GPM At 60 To 90 PSI, 520 To 600 GPM At 40 To 80 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-19).....	77,669.40	2,387.02
22 11 23 13-0043 EA 440 To 480 GPM At 100 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-20).....	77,227.08	2,387.02
22 11 23 13-0044 EA 440 To 600 GPM At 100 To 120 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-21).....	93,167.34	2,387.02
22 11 23 13-0045 EA 440 To 600 GPM At 130 To 150 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-22).....	112,665.03	2,387.02
22 11 23 13-0046 EA 60 GPM At 40 To 70 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-1).....	53,519.29	1,909.62
22 11 23 13-0047		
Variable Speed Triplex Domestic Water Pressure Booster Skid ^(22 11 23 13)		
Note: AB1953 compliant, UL listed and labeled. Includes stainless steel headers with check, isolation, thermal relief valves, and start up support. The standard control package is integrated in a NEMA 1 enclosure and is outfitted with an individual VFD's which are controlled through a HOA and internally programmed PID logic for system control.		
22 11 23 13-0048 EA 60 GPM At 80 To 130 PSI, 120 GPM At 50 To 90 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-2).....	53,519.29	1,909.62
22 11 23 13-0049 EA 120 GPM At 100 To 120 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-3).....	59,845.93	1,909.62
22 11 23 13-0050 EA 60 GPM At 140 To 150 PSI, 120 GPM At 130 To 150 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-4).....	65,304.69	1,909.62
22 11 23 13-0051 EA 180 GPM At 40 To 90 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-5).....	60,144.31	2,028.97
22 11 23 13-0052 EA 180 GPM At 100 To 150 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-6).....	65,565.34	2,028.97
22 11 23 13-0053 EA 240 GPM At 40 To 50 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-7).....	61,410.47	2,028.97
22 11 23 13-0054 EA 240 GPM At 60 To 80 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-8).....	66,070.55	2,028.97
22 11 23 13-0055 EA 240 GPM At 90 To 110 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-9).....	72,478.94	2,028.97
22 11 23 13-0056 EA 240 GPM At 120 To 150 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-10).....	77,790.96	2,028.97
22 11 23 13-0057 EA 300 GPM At 40 To 50 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-11).....	62,014.91	2,148.32
22 11 23 13-0058 EA 300 GPM At 60 To 70 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-12).....	66,674.99	2,148.32
22 11 23 13-0059 EA 300 GPM At 80 To 100 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-13).....	73,081.28	2,148.32
22 11 23 13-0060 EA 300 GPM At 110 To 150 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-14).....	78,393.30	2,148.32
22 11 23 13-0061 EA 360 GPM At 40 To 60 PSI, 420 GPM At 40 To 50 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-15).....	67,255.66	2,148.32
22 11 23 13-0062 EA 360 GPM At 70 To 80 PSI, 420 GPM At 60 To 70 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-16).....	71,731.26	2,148.32
22 11 23 13-0063 EA 360 GPM At 90 To 130 PSI, 420 GPM At 80 To 120 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-17).....	82,789.25	2,148.32
22 11 23 13-0064 EA 360 GPM At 140 To 150 PSI, 420 GPM At 130 To 150 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-18).....	100,834.20	2,148.32
22 11 23 13-0065 EA 480 GPM At 40 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-19).....	68,766.41	2,387.02
22 11 23 13-0066 EA 480 GPM At 50 To 70 PSI, 520 To 600 GPM At 40 To 80 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-20).....	73,244.11	2,387.02
22 11 23 13-0067 EA 480 GPM At 80 To 110 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-21).....	84,302.09	2,387.02
22 11 23 13-0068 EA 480 GPM At 120 To 150 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-22).....	102,344.94	2,387.02
22 11 23 13-0069 EA 540 GPM At 40 PSI, 600 GPM At 40 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-23).....	72,518.79	2,387.02
22 11 23 13-0070 EA 540 GPM At 50 To 90 PSI, 600 GPM At 50 To 80 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-24).....	82,568.45	2,387.02
22 11 23 13-0071 EA 540 GPM At 100 To 110 PSI, 600 GPM At 90 To 110 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-25).....	104,399.32	2,387.02
22 11 23 13-0072 EA 540 GPM At 120 To 130 PSI, 600 GPM At 120 To 130 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-26).....	106,514.48	2,387.02



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 23	13-0073	EA	540 GPM At 140 To 150 PSI, 600 GPM At 140 To 150 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-27)	131,856.65	2,387.02
22 11 23	13-0074	EA	660 GPM At 40 To 50 PSI, 720 GPM At 40 To 50 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-28)	82,212.78	2,864.42
22 11 23	13-0075	EA	660 GPM At 60 To 90 PSI, 720,780,840,900 GPM At 60 To 80 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-29)	98,775.65	2,864.42
22 11 23	13-0076	EA	660, 720, 780 GPM At 100 PSI, 840 To 900 GPM At 90 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-30)	105,056.16	2,864.42
22 11 23	13-0077	EA	660, 720, 780, 840, 900 GPM At 110 To 120 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-31)	126,599.84	2,864.42
22 11 23	13-0078	EA	660, 720, 780, 840, 900 GPM At 130 To 150 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-32)	156,746.73	2,864.42

22 11 23 23 Domestic-Water In-Line Pumps (22 11 23)

22 11 23 23-0001 Bronze In-Line Centrifugal Domestic Water Booster Pumps (22 11 23 23)

Note: ODP motor.

22 11 23	23-0002	EA	1/12 HP, 3/4" To 1-1/2" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PL30B)	1,361.55	253.77
22 11 23	23-0003	EA	1/6 HP, 3/4" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PL36B)	1,397.39	253.77
22 11 23	23-0004	EA	1/6 HP, 1" To 1-1/4" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PL45B)	1,462.09	258.70
22 11 23	23-0005	EA	1/6 HP, 1-1/2" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PL50B)	1,610.37	269.27
22 11 23	23-0006	EA	1/6 HP, 2" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PL75B)	2,874.75	279.25
22 11 23	23-0007	EA	1/6 HP, 2" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G 2AB)	3,065.50	279.25
22 11 23	23-0008	EA	1/4 HP, 2-1/2" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G 2-1/2AB)	4,575.35	307.46
22 11 23	23-0009	EA	1/4 HP, 3" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G LD3 AB)	4,772.15	337.79
22 11 23	23-0010	EA	1/3 HP, 3" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G HD3 AB)	5,775.54	371.63
22 11 23	23-0011	EA	1/2 HP, 3" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PDB35S)	5,904.69	409.02
22 11 23	23-0012	EA	3/4 HP, 3" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PDB37S)	6,457.47	449.21
22 11 23	23-0013	EA	1 HP, 3" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PDB38S)	9,245.45	494.34
22 11 23	23-0014	EA	1-1/2 HP, 3" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PDB40S)	10,647.46	518.32

22 11 23 23-0015 Cast Iron In-Line Centrifugal Domestic Water Booster Pumps (22 11 23 23)

Note: ODP motor.

22 11 23	23-0016	EA	1/12 HP, 3/4" To 1-1/2" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PL30)	1,417.51	253.77
22 11 23	23-0017	EA	1/6 HP, 3/4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PL36)	2,361.54	253.77
22 11 23	23-0018	EA	1/6 HP, 1" To 1-1/4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PL45)	2,371.74	258.70
22 11 23	23-0019	EA	1/6 HP, 1-1/4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PL45)	2,412.84	264.34
22 11 23	23-0020	EA	1/6 HP, 1-1/2" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PL50)	2,422.70	269.27
22 11 23	23-0021	EA	1/6 HP, 2" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PL75)	2,468.58	279.25
22 11 23	23-0022	EA	1/4 HP, 2-1/2" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 2-1/2)	3,015.57	307.46
22 11 23	23-0023	EA	1/3 HP, 3" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G HD30)	3,889.38	371.63
22 11 23	23-0024	EA	1/2 HP, 3" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PD35S)	4,098.55	409.02
22 11 23	23-0025	EA	3/4 HP, 3" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PD37S)	4,782.35	449.21
22 11 23	23-0026	EA	1 HP, 3" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PD38S)	6,448.18	494.34
22 11 23	23-0027	EA	1-1/2 HP, 3" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PD40S)	7,535.69	518.32
22 11 23	23-0028	EA	2 HP, 4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 80, 4x4x7, BF)	6,769.37	544.41
22 11 23	23-0029	EA	3 HP, 4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 80, 4x4x7, BF)	7,277.66	598.42
22 11 23	23-0030	EA	5 HP, 4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 80, 4x4x7, BF)	7,995.47	634.68
22 11 23	23-0031	EA	7-1/2 HP, 4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 80, 4x4x9-1/2, BF)	10,122.81	705.20
22 11 23	23-0032	EA	10 HP, 4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 80, 4x4x9-1/2, BF)	10,742.55	846.37
22 11 23	23-0033	EA	15 HP, 4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 80, 4x4x9-1/2, BF)	13,698.30	987.69

22 12 Facility Potable-Water Storage Tanks (22 10)

22 12 19 Facility Ground-Mounted, Potable-Water Storage Tanks (22 12)

22 12 19 00-0001 Steel, Horizontal, Ground-Mounted Water Tanks (22 12 19)

22 12 19	00-0002	EA	5,000 Gallon, Steel, Horizontal, Ground-Mounted Water Tank	42,256.78	9,744.59
22 12 19	00-0003	EA	10,000 Gallon, Steel, Horizontal, Ground-Mounted Water Tank	48,056.08	9,744.59
22 12 19	00-0004	EA	20,000 Gallon, Steel, Horizontal, Ground-Mounted Water Tank	86,780.13	15,037.97
22 12 19	00-0005	EA	35,000 Gallon, Steel, Horizontal, Ground-Mounted Water Tank	112,006.52	19,489.17

22 12 19 00-0006 Galvanized Steel, Flat Bottom, Vertical Storage Tanks (22 12 19)

22 12 19	00-0007	EA	5,000 Gallon Galvanized Steel, Flat Bottom, Vertical Storage Tank	50,848.33	9,744.59
22 12 19	00-0008	EA	10,000 Gallon Galvanized Steel, Flat Bottom, Vertical Storage Tank	71,038.48	9,744.59
22 12 19	00-0009	EA	20,000 Gallon Galvanized Steel, Flat Bottom, Vertical Storage Tank	105,842.70	15,037.97
22 12 19	00-0010	EA	35,000 Gallon Galvanized Steel, Flat Bottom, Vertical Storage Tank	152,520.05	19,489.17

22 12 23 Facility Indoor Potable-Water Storage Tanks (22 12)

22 12 23 13 Facility Steel, Indoor Potable-Water Storage Pressure Tanks (22 12 23)

22 12 23 13-0001 Insulated Glass Lined Storage Tank (A.O. Smith TJ, TJV And TJH) (22 12 23 13)

22 12 23	13-0002	EA	80 Gallon ASME Rated Tank, 150PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJ-80A)	2,883.54	563.93
22 12 23	13-0003	EA	119 Gallon 150 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-120M)	3,574.75	704.91
22 12 23	13-0004	EA	140 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-140A)	6,393.87	775.39



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 12 23 13-0005	EA		200 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-200A).....	7,066.40	845.88
22 12 23 13-0006	EA		250 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-250A).....	13,740.26	916.37
22 12 23 13-0007	EA		350 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-350A).....	11,916.10	986.86
22 12 23 13-0008	EA		400 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-400A).....	20,207.98	1,057.35
22 12 23 13-0009	EA		500 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-500A).....	18,681.90	1,127.84
22 12 23 13-0010	EA		750 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-750A).....	20,284.64	1,198.33
22 12 23 13-0011	EA		1,000 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-1000A).....	24,107.19	1,268.82
22 12 23 13-0012			Uninsulated Glass Lined Storage Tank (A.O. Smith T) <small>(22 12 23 13)</small>		
22 12 23 13-0013	EA		80 Gallon 150 PSI, Uninsulated, Glass Lined Water Storage Tank (T-80S).....	2,499.20	563.93
22 12 23 13-0014	EA		120 Gallon 150 PSA, Uninsulated, Glass Lined Water Storage Tank (T-120S).....	4,657.26	704.91
22 12 23 13-0015	EA		140 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-140A).....	5,782.62	775.39
22 12 23 13-0016	EA		200 Gallon 150 PSI, Uninsulated, Glass Lined Water Storage Tank (T-200S).....	7,104.23	845.88
22 12 23 13-0017	EA		200 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-200A).....	6,083.00	845.88
22 12 23 13-0018	EA		250 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-250A).....	9,255.58	916.37
22 12 23 13-0019	EA		325 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-325A).....	10,015.14	986.86
22 12 23 13-0020	EA		350 Gallon 150 PSI, Uninsulated, Glass Lined Water Storage Tank (T-350S).....	9,551.21	986.86
22 12 23 13-0021	EA		350 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-350A).....	8,748.68	986.86
22 12 23 13-0022	EA		400 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-400A).....	11,857.20	1,057.35
22 12 23 13-0023	EA		500 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-500A).....	12,855.41	1,127.84
22 12 23 13-0024	EA		750 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-750A).....	14,881.95	1,198.33
22 12 23 13-0025	EA		1,000 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-1000A).....	27,543.51	1,268.82
22 12 23 26			Facility Plastic, Indoor Potable-Water Storage Non-Pressure Tanks <small>(22 12 23)</small>		
22 12 23 26-0001			Horizontal Non-Pressurized Polyethylene Tanks <small>(22 12 23 26)</small>		
Note: Excludes excavation and backfill.					
22 12 23 26-0002	EA		100 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	824.23	317.21
			<i>For Saddle Assembly, Add</i>	911.06	
22 12 23 26-0003	EA		150 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	965.13	370.07
			<i>For Saddle Assembly, Add</i>	911.06	
22 12 23 26-0004	EA		200 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	1,141.23	422.94
			<i>For Saddle Assembly, Add</i>	1,030.75	
22 12 23 26-0005	EA		300 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	1,380.69	475.81
			<i>For Saddle Assembly, Add</i>	1,497.77	
22 12 23 26-0006	EA		335 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	1,645.97	528.68
			<i>For Two Tie Down Bands, Add</i>	530.68	
22 12 23 26-0007	EA		535 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	2,049.24	655.28
			<i>For Two Tie Down Bands, Add</i>	563.54	
22 12 23 26-0008	EA		1,035 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	3,033.32	764.50
			<i>For Three Tie Down Bands, Add</i>	950.91	
22 12 23 26-0009	EA		1,335 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	4,344.91	873.70
			<i>For Three Tie Down Bands, Add</i>	957.95	
22 12 23 26-0010	EA		1,635 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	5,408.14	982.92
			<i>For Four Tie Down Bands, Add</i>	1,296.05	
22 12 23 26-0011	EA		2,035 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	6,326.94	1,092.13
			<i>For Four Tie Down Bands, Add</i>	1,774.81	
22 12 23 26-0012	EA		2,635 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	8,994.34	1,201.34
			<i>For Four Tie Down Bands, Add</i>	2,300.51	
22 12 23 26-0013	EA		3,135 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	10,407.26	1,310.56
			<i>For Four Tie Down Bands, Add</i>	2,478.87	
22 12 23 26-0014	EA		4,035 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	14,930.31	1,747.41
			<i>For Four Tie Down Bands, Add</i>	2,788.65	
22 12 23 26-0015	EA		5,025 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	19,243.60	1,747.41
			<i>For Five Tie Down Bands, Add</i>	4,342.41	
22 12 23 26-0016			Vertical Non-Pressurized Polyethylene Tanks <small>(22 12 23 26)</small>		
22 12 23 26-0017	EA		100 Gallon Vertical Non-Pressurized Polyethylene Tank.....	918.28	422.94
22 12 23 26-0018	EA		160 Gallon Vertical Non-Pressurized Polyethylene Tank.....	1,091.99	449.37
22 12 23 26-0019	EA		210 Gallon Vertical Non-Pressurized Polyethylene Tank.....	1,195.29	475.81
22 12 23 26-0020	EA		300 Gallon Vertical Non-Pressurized Polyethylene Tank.....	1,437.10	528.68
22 12 23 26-0021	EA		405 Gallon Vertical Non-Pressurized Polyethylene Tank.....	1,646.13	634.42
22 12 23 26-0022	EA		500 Gallon Vertical Non-Pressurized Polyethylene Tank.....	1,942.00	740.15
22 12 23 26-0023	EA		800 Gallon Vertical Non-Pressurized Polyethylene Tank.....	2,582.42	873.70
22 12 23 26-0024	EA		1,000 Gallon Vertical Non-Pressurized Polyethylene Tank.....	3,338.33	1,092.13
22 12 23 26-0025	EA		2,000 Gallon Vertical Non-Pressurized Polyethylene Tank.....	4,465.04	1,310.56
22 12 23 26-0026	EA		3,000 Gallon Vertical Non-Pressurized Polyethylene Tank.....	5,812.36	1,528.99
22 12 23 26-0027	EA		4,000 Gallon Vertical Non-Pressurized Polyethylene Tank.....	8,480.95	1,747.41
22 12 23 26-0028	EA		5,000 Gallon Vertical Non-Pressurized Polyethylene Tank.....	11,426.48	1,965.84
22 12 23 26-0029	EA		6,250 Gallon Vertical Non-Pressurized Polyethylene Tank.....	12,947.47	2,184.27
22 12 23 26-0030	EA		7,000 Gallon Vertical Non-Pressurized Polyethylene Tank.....	14,266.63	2,402.70
22 12 23 26-0031	EA		8,000 Gallon Vertical Non-Pressurized Polyethylene Tank.....	16,416.56	2,621.12
22 12 23 26-0032	EA		9,150 Gallon Vertical Non-Pressurized Polyethylene Tank.....	18,526.60	2,839.55

22	Plumbing
22 10	Plumbing Piping
22 12	Facility Potable-Water Storage Tanks



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 12 23 26-0033 EA 10,500 Gallon Vertical Non-Pressurized Polyethylene Tank.....	22,866.16	3,057.97
22 12 23 26-0034 EA 12,500 Gallon Vertical Non-Pressurized Polyethylene Tank.....	27,485.22	3,494.83

22 13 Facility Sanitary Sewerage (22 10)

22 13 13 Facility Sanitary Sewers (22 13)

22 13 13 00-0001 Fixture Rough-In (22 13 13)

Note: Excludes fixture. Not for use when individual component details are available, on remodeling work where partial pipe and fittings are installed or on residential projects. For use on commercial restrooms with multiple toilets, urinals and lavatories. Includes waste and vent pipe and fittings and domestic water supply pipe and fittings. Waste piping is included from fixture outlet tee to floor, vent piping is included from outlet tee within the wall to the ceiling and domestic water supply from ceiling to fixture and stub out with caps. Based on vertical floor to floor of 12'. Use detailed tasks (i.e. individual pipe and fittings, insulation, hangers, etc.) instead of rough-in assembly where possible. See CSI section 22 07 19 00-0000 for insulation, 22 11 16 00-0368 for copper pipe and fittings, 22 13 16 00-0000 for PVC or cast iron sanitary waste and vent pipe and fittings, 23 05 29 00-0000 for hangers.

22 13 13 00-0002 Single Fixture Rough-In, Cast Iron Waste And Vent Pipe (22 13 13 00-0001)

Note: Single fixtures have one fixture to one pipe riser. Includes cast iron waste and vent pipe and fittings and copper domestic water supply pipe and fittings.

22 13 13 00-0003 EA Floor Mounted Water Closet, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe	1,333.64	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and flush valve.		
22 13 13 00-0004 EA Wall Mounted Water Closet, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe	1,756.33	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, carrier and flush valve.		
22 13 13 00-0005 EA Tank Type Floor Mounted Water Closet, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe	1,216.08	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture.		
22 13 13 00-0006 EA Wall Mounted Urinal, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe.....	785.62	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, carrier and flush valve.		
22 13 13 00-0007 EA Wall Mounted Lavatory, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe	925.75	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.		
22 13 13 00-0008 EA Countertop Kitchen Sink, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe	1,183.58	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and faucet.		
22 13 13 00-0009 EA Bathtub, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe	1,257.13	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and faucet.		
22 13 13 00-0010 EA Free Standing Water Cooler, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe	760.12	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture.		
22 13 13 00-0011 EA Floor Mounted Service Sink, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe.....	1,216.08	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and faucet.		
22 13 13 00-0012 EA Wall Mounted Service Sink, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe	1,253.00	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.		
22 13 13 00-0013 EA Shower, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe.....	1,182.49	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, shower head and faucet.		
22 13 13 00-0014 EA Bidet, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe.....	1,333.64	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and faucet.		
22 13 13 00-0015 EA Floor Mounted Circular Wash Fountain, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe	2,088.53	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture.		
22 13 13 00-0016 EA Bathtub/Shower, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe	1,292.40	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, shower head and faucet.		

22 13 13 00-0017 Double Fixture Rough-In, Cast Iron Waste And Vent Pipe (22 13 13 00-0001)

Note: Double fixtures have two "back-to-back" waste connections to one riser. Includes cast iron waste and vent pipe and fittings and copper domestic water supply pipe and fittings.

22 13 13 00-0018 EA Floor Mounted Water Closet, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe	1,730.02	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and flush valve.		
22 13 13 00-0019 EA Wall Mounted Water Closet, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe	2,353.92	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, carrier and flush valve.		
22 13 13 00-0020 EA Tank Type Floor Mounted Water Closet, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe.....	1,494.34	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture.		
22 13 13 00-0021 EA Wall Mounted Urinal, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe	936.84	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, carrier and flush valve.		
22 13 13 00-0022 EA Wall Mounted Lavatory, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe.....	1,262.40	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.		
22 13 13 00-0023 EA Countertop Kitchen Sink, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe	1,336.61	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and faucet.		
22 13 13 00-0024 EA Free Standing Water Cooler, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe.....	886.78	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture.		
22 13 13 00-0025 EA Floor Mounted Service Sink, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe	1,508.42	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and faucet.		
22 13 13 00-0026 EA Wall Mounted Service Sink, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe.....	1,318.88	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.		
22 13 13 00-0027 EA Shower, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe	1,283.67	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, shower heads and faucets.		
22 13 13 00-0028 EA Bidet, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe	1,730.02	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and faucets.		



	Plumbing	22
	Plumbing Piping	22 10
	Facility Sanitary Sewerage	22 13

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 13 00-0029	Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe <small>(22 13 13 00-0001)</small>	
<small>Note: Gang fixtures include multiple fixtures to one pipe riser. Includes cast iron waste and vent pipe and fittings and copper domestic water supply pipe and fittings.</small>		
22 13 13 00-0030 EA	Floor Mounted Water Closet, Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe	864.35
<small>Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and flush valve.</small>		
22 13 13 00-0031 EA	Wall Mounted Water Closet, Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe	1,176.97
<small>Note: Includes cast iron waste pipe and vent and copper domestic supply. Excludes fixture, carrier and flush valve.</small>		
22 13 13 00-0032 EA	Tank Type Floor Mounted Water Closet, Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe	747.86
<small>Note: Includes cast iron waste pipe and vent and copper domestic supply. Excludes fixture.</small>		
22 13 13 00-0033 EA	Wall Mounted Urinal, Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe.....	469.13
<small>Note: Includes cast iron waste pipe and vent and copper domestic supply. Excludes fixture, carrier and flush valve.</small>		
22 13 13 00-0034 EA	Wall Mounted Lavatory, Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe	631.23
<small>Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.</small>		
22 13 13 00-0035 EA	Countertop Kitchen Sink, Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe	668.28
<small>Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and faucet.</small>		
22 13 13 00-0036 EA	Free Standing Water Cooler, Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe	478.62
<small>Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture.</small>		
22 13 13 00-0037 EA	Rough-in Service Sink, Floor Mounted, Gang Mounted Fixture Including Cast Iron Waste Pipe And Vent And Copper Domestic Supply, Not Including Fixture Or Faucet	753.52
<small>Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and faucet.</small>		
22 13 13 00-0038 EA	Wall Mounted Service Sink, Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe	659.44
<small>Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.</small>		
22 13 13 00-0039 EA	Shower, Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe.....	642.50
<small>Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, shower heads and faucets.</small>		
22 13 13 00-0040 EA	Bidet, Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe.....	854.46
<small>Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and faucet.</small>		
22 13 13 00-0041	Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe <small>(22 13 13 00-0001)</small>	
<small>Note: Single fixtures have one fixture to one pipe riser. Includes PVC waste and vent pipe and fittings and copper domestic water supply pipe and fittings.</small>		
22 13 13 00-0042 EA	Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe, Floor Mounted, Water Closet	804.75
<small>Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and flush valve.</small>		
22 13 13 00-0043 EA	Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe, Wall Mounted, Water Closet.....	899.61
<small>Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and flush valve.</small>		
22 13 13 00-0044 EA	Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe, Tank Type, Floor Mounted, Water Closet	762.04
<small>Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture.</small>		
22 13 13 00-0045 EA	Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe, Wall Mounted, Urinal	461.53
<small>Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and flush valve.</small>		
22 13 13 00-0046 EA	Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe, Wall Mounted, Lavatory.....	541.15
<small>Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.</small>		
22 13 13 00-0047 EA	Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe, Countertop, Kitchen Sink.....	732.19
<small>Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and faucet.</small>		
22 13 13 00-0048 EA	Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe, Bathtub.....	744.36
<small>Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and faucet.</small>		
22 13 13 00-0049 EA	Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe, Free Standing, Water Cooler.....	455.94
<small>Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture.</small>		
22 13 13 00-0050 EA	Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe, Floor Mounted, Service Sink	762.04
<small>Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and faucet.</small>		
22 13 13 00-0051 EA	Wall Mounted Service Sink, Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe	808.00
<small>Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.</small>		
22 13 13 00-0052 EA	Shower, Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe.....	746.19
<small>Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, shower head and faucet.</small>		
22 13 13 00-0053 EA	Bidet, Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe.....	804.58
<small>Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and faucet.</small>		
22 13 13 00-0054 EA	Floor Mounted Circular Wash Fountain, Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe.....	1,243.89
<small>Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture.</small>		
22 13 13 00-0055 EA	Bathtub/Shower, Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe.....	775.19
<small>Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, shower head and faucet.</small>		
22 13 13 00-0056	Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe <small>(22 13 13 00-0001)</small>	
<small>Note: Double fixtures have two "back-to-back" waste connections to one riser. Includes PVC waste and vent pipe and fittings and copper domestic water supply pipe and fittings.</small>		
22 13 13 00-0057 EA	Floor Mounted Water Closet, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe	984.17
<small>Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and flush valve.</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 13 00-0058 EA Wall Mounted Water Closet, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe 1,178.41 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and flush valve.	1,178.41	
22 13 13 00-0059 EA Tank Type Floor Mounted Water Closet, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe 855.29 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixtures.	855.29	
22 13 13 00-0060 EA Wall Mounted Urinal, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe 516.26 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and flush valve.	516.26	
22 13 13 00-0061 EA Wall Mounted Lavatory, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe 753.35 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixtures, carrier and faucets.	753.35	
22 13 13 00-0062 EA Countertop Kitchen Sink, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe 787.57 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixtures and faucets.	787.57	
22 13 13 00-0063 EA Free Standing Water Cooler, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe 501.77 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixtures.	501.77	
22 13 13 00-0064 EA Floor Mounted Service Sink, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe 867.83 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and faucet.	867.83	
22 13 13 00-0065 EA Wall Mounted Service Sink, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe 831.84 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.	831.84	
22 13 13 00-0066 EA Shower, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe 800.39 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, shower head and faucet.	800.39	
22 13 13 00-0067 EA Bidet, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe 984.17 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and faucet.	984.17	
22 13 13 00-0068 Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe ^(22 13 13 00-0007) Note: Gang fixtures include multiple fixtures to one pipe riser. Includes PVC waste and vent pipe and fittings and copper domestic water supply pipe and fittings.		
22 13 13 00-0069 EA Floor Mounted Water Closet, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe 491.50 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and flush valve.	491.50	
22 13 13 00-0070 EA Wall Mounted Water Closet, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe 588.52 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and flush valve.	588.52	
22 13 13 00-0071 EA Tank Type Floor Mounted Water Closet, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe 428.06 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture.	428.06	
22 13 13 00-0072 EA Wall Mounted Urinal, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe 258.19 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and flush valve.	258.19	
22 13 13 00-0073 EA Wall Mounted Lavatory, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe 376.64 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.	376.64	
22 13 13 00-0074 EA Countertop Kitchen Sink, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe 393.43 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and faucet.	393.43	
22 13 13 00-0075 EA Free Standing Water Cooler, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe 250.87 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture.	250.87	
22 13 13 00-0076 EA Floor Mounted Service Sink, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe 433.79 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and faucet.	433.79	
22 13 13 00-0077 EA Wall Mounted Service Sink, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe 415.97 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.	415.97	
22 13 13 00-0078 EA Shower, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe 400.79 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, shower head and faucet.	400.79	
22 13 13 00-0079 EA Bidet, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe 482.16 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and faucet.	482.16	
22 13 16 Sanitary Waste and Vent Piping ^(22 13)		
22 13 16 00-0001 Cast Iron Soil Pipe Assemblies ^(22 13 16)		
22 13 16 00-0002 Underground Bell And Spigot Cast Iron Soil Pipe Assemblies ^(22 13 16 00-0001) Note: Includes fittings and gaskets. Fittings are assumed every 10'. Excludes excavation, backfill and compaction. Not for use where detail is available.		
22 13 16 00-0003 LF 2" Underground Bell And Spigot Cast Iron Soil Pipe Assembly 43.64 Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.	43.64	8.88
<i>For Work In Restricted Working Space, Add</i>	6.52	
22 13 16 00-0004 LF 3" Underground Bell And Spigot Cast Iron Soil Pipe Assembly 62.28 Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.	62.28	13.39
<i>For Work In Restricted Working Space, Add</i>	8.84	
22 13 16 00-0005 LF 4" Underground Bell And Spigot Cast Iron Soil Pipe Assembly 80.79 Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.	80.79	17.05
<i>For Work In Restricted Working Space, Add</i>	11.37	



Plumbing	22	22
Plumbing Piping	22 10	
Facility Sanitary Sewerage	22 13	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0006	LF		5" Underground Bell And Spigot Cast Iron Soil Pipe Assembly Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.	91.85	19.49
			<i>For Work In Restricted Working Space, Add</i>	10.97	
22 13 16 00-0007	LF		6" Underground Bell And Spigot Cast Iron Soil Pipe Assembly Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.	107.93	21.23
			<i>For Work In Restricted Working Space, Add</i>	12.18	
22 13 16 00-0008	LF		8" Underground Bell And Spigot Cast Iron Soil Pipe Assembly Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.	172.01	30.51
			<i>For Work In Restricted Working Space, Add</i>	17.28	
22 13 16 00-0009	LF		10" Underground Bell And Spigot Cast Iron Soil Pipe Assembly Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.	252.89	30.51
			<i>For Work In Restricted Working Space, Add</i>	19.56	
22 13 16 00-0010			Aboveground No Hub Cast Iron Soil Pipe Assemblies <small>(22 13 16 00-0001)</small> Note: Includes fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
22 13 16 00-0011	LF		1-1/2" Aboveground No Hub Cast Iron Soil Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.	38.63	8.46
			<i>For Work In Restricted Working Space, Add</i>	7.43	
22 13 16 00-0012	LF		2" Aboveground No Hub Cast Iron Soil Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.	41.00	9.02
			<i>For Work In Restricted Working Space, Add</i>	7.98	
22 13 16 00-0013	LF		3" Aboveground No Hub Cast Iron Soil Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.	52.27	13.11
			<i>For Work In Restricted Working Space, Add</i>	9.79	
22 13 16 00-0014	LF		4" Aboveground No Hub Cast Iron Soil Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.	62.44	17.05
			<i>For Work In Restricted Working Space, Add</i>	11.70	
22 13 16 00-0015	LF		5" Aboveground No Hub Cast Iron Soil Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.	77.08	19.11
			<i>For Work In Restricted Working Space, Add</i>	12.97	
22 13 16 00-0016	LF		6" Aboveground No Hub Cast Iron Soil Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.	87.35	20.86
			<i>For Work In Restricted Working Space, Add</i>	14.14	
22 13 16 00-0017	LF		8" Aboveground No Hub Cast Iron Soil Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.	135.53	30.26
			<i>For Work In Restricted Working Space, Add</i>	19.70	
22 13 16 00-0018	LF		10" Aboveground No Hub Cast Iron Soil Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 20'. Not for use where detail is available.	189.22	34.38
			<i>For Work In Restricted Working Space, Add</i>	22.89	
22 13 16 00-0019			Bell And Spigot Cast Iron Soil Pipe And Fittings <small>(22 13 16)</small> Note: Service weight. ASTM A74 and CISPI 301 (Fitting Requirements).		
22 13 16 00-0020			Bell And Spigot Cast Iron Pipe <small>(22 13 16 00-0019)</small> Note: Excludes excavation, hangers, gaskets, and fittings.		
22 13 16 00-0021	LF		2" Bell And Spigot Cast Iron Pipe <i>For Extra Heavy Pipe, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	30.97 7.37 0.67 4.03	8.88
22 13 16 00-0022	LF		3" Bell And Spigot Cast Iron Pipe <i>For Extra Heavy Pipe, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	45.29 10.56 1.01 6.04	13.39
22 13 16 00-0023	LF		4" Bell And Spigot Cast Iron Pipe <i>For Extra Heavy Pipe, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	58.33 13.73 1.28 7.69	17.05
22 13 16 00-0024	LF		5" Bell And Spigot Cast Iron Pipe <i>For Extra Heavy Pipe, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	75.30 19.38 1.46 8.75	19.49
22 13 16 00-0025	LF		6" Bell And Spigot Cast Iron Pipe <i>For Extra Heavy Pipe, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	87.99 23.60 1.59 9.54	21.23
22 13 16 00-0026	LF		8" Bell And Spigot Cast Iron Pipe <i>For Extra Heavy Pipe, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	133.19 36.71 2.29 13.73	30.51

22 Plumbing
22 10 Plumbing Piping
22 13 Facility Sanitary Sewerage



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0027	LF		10" Bell And Spigot Cast Iron Pipe <i>For Extra Heavy Pipe, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	197.03 61.12 2.58 15.45	34.38
22 13 16 00-0028	LF		12" Bell And Spigot Cast Iron Pipe <i>For Extra Heavy Pipe, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	280.09 88.79 3.43 20.60	45.83
22 13 16 00-0029	LF		15" Bell And Spigot Cast Iron Pipe <i>For Extra Heavy Pipe, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	391.39 129.77 4.12 24.72	54.98
22 13 16 00-0030 Bell And Spigot Cast Iron Fittings (22 13 16 00-0019)					
22 13 16 00-0031 Bell And Spigot Cast Iron Long Sweeps (22 13 16 00-0030)					
22 13 16 00-0032	EA		2" Bell And Spigot Cast Iron Long Sweep <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	119.56 20.62 3.03 18.19	40.46
22 13 16 00-0033	EA		3" Bell And Spigot Cast Iron Long Sweep <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	195.74 41.84 3.81 22.86	50.89
22 13 16 00-0034	EA		4" Bell And Spigot Cast Iron Long Sweep <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	260.75 55.77 5.07 30.43	67.68
22 13 16 00-0035	EA		6" Bell And Spigot Cast Iron Long Sweep <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	391.83 93.89 6.18 37.07	82.45
22 13 16 00-0036	EA		8" Bell And Spigot Cast Iron Long Sweep <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	759.26 209.41 8.05 48.29	107.38
22 13 16 00-0037	EA		10" Bell And Spigot Cast Iron Long Sweep <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,033.77 292.49 9.90 59.43	132.11
22 13 16 00-0038	EA		12" Bell And Spigot Cast Iron Long Sweep <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,579.35 456.02 13.82 82.94	184.38
22 13 16 00-0039	EA		15" Bell And Spigot Cast Iron Long Sweep <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,904.86 881.98 19.25 115.48	256.74
22 13 16 00-0040 Bell And Spigot Cast Iron Short Sweeps (22 13 16 00-0030)					
22 13 16 00-0041	EA		2" Bell And Spigot Cast Iron Short Sweep <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	104.00 15.18 3.03 18.19	40.46
22 13 16 00-0042	EA		3" Bell And Spigot Cast Iron Short Sweep <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	169.63 32.70 3.81 22.86	50.89
22 13 16 00-0043	EA		4" Bell And Spigot Cast Iron Short Sweep <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	231.40 45.49 5.07 30.43	67.68
22 13 16 00-0044	EA		5" Bell And Spigot Cast Iron Short Sweep <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	329.76 78.66 5.25 31.51	70.07
22 13 16 00-0045	EA		6" Bell And Spigot Cast Iron Short Sweep <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	397.42 95.85 6.18 37.07	82.45
22 13 16 00-0046	EA		8" Bell And Spigot Cast Iron Short Sweep <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	646.76 170.03 8.05 48.29	107.38
22 13 16 00-0047	EA		10" Bell And Spigot Cast Iron Short Sweep <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	937.78 258.89 9.90 59.43	132.11
22 13 16 00-0048	EA		12" Bell And Spigot Cast Iron Short Sweep <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,543.55 443.49 13.82 82.94	184.38



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0049 Bell And Spigot Cast Iron 1/4 Bends (22 13 16 00-0030)					
22 13 16 00-0050	EA		2" Bell And Spigot Cast Iron 1/4 Bend	95.13	40.32
			<i>For Extra Heavy Fittings, Add</i>	12.12	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	3.03	
			<i>For Work In Restricted Working Space, Add</i>	18.15	
22 13 16 00-0051	EA		3" Bell And Spigot Cast Iron 1/4 Bend	137.31	45.39
			<i>For Extra Heavy Fittings, Add</i>	24.22	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	3.41	
			<i>For Work In Restricted Working Space, Add</i>	20.43	
22 13 16 00-0052	EA		4" Bell And Spigot Cast Iron 1/4 Bend	194.52	60.49
			<i>For Extra Heavy Fittings, Add</i>	36.35	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	4.53	
			<i>For Work In Restricted Working Space, Add</i>	27.20	
22 13 16 00-0053	EA		5" Bell And Spigot Cast Iron 1/4 Bend	233.27	62.58
			<i>For Extra Heavy Fittings, Add</i>	48.83	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	4.69	
			<i>For Work In Restricted Working Space, Add</i>	28.13	
22 13 16 00-0054	EA		6" Bell And Spigot Cast Iron 1/4 Bend	280.51	74.94
			<i>For Extra Heavy Fittings, Add</i>	58.82	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	5.62	
			<i>For Work In Restricted Working Space, Add</i>	33.74	
22 13 16 00-0055	EA		8" Bell And Spigot Cast Iron 1/4 Bend	565.25	98.89
			<i>For Extra Heavy Fittings, Add</i>	145.96	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	7.41	
			<i>For Work In Restricted Working Space, Add</i>	44.46	
22 13 16 00-0056	EA		10" Bell And Spigot Cast Iron 1/4 Bend	825.13	120.01
			<i>For Extra Heavy Fittings, Add</i>	225.83	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	8.99	
			<i>For Work In Restricted Working Space, Add</i>	53.97	
22 13 16 00-0057	EA		12" Bell And Spigot Cast Iron 1/4 Bend	1,082.43	141.64
			<i>For Extra Heavy Fittings, Add</i>	304.51	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	10.62	
			<i>For Work In Restricted Working Space, Add</i>	63.72	
22 13 16 00-0058	EA		15" Bell And Spigot Cast Iron 1/4 Bend	2,720.46	223.40
			<i>For Extra Heavy Fittings, Add</i>	834.95	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	16.74	
			<i>For Work In Restricted Working Space, Add</i>	100.46	
22 13 16 00-0059 Bell And Spigot Cast Iron 1/8 Bends (22 13 16 00-0030)					
22 13 16 00-0060	EA		2" Bell And Spigot Cast Iron 1/8 Bend	88.29	40.46
			<i>For Extra Heavy Fittings, Add</i>	9.68	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	3.03	
			<i>For Work In Restricted Working Space, Add</i>	18.19	
22 13 16 00-0061	EA		3" Bell And Spigot Cast Iron 1/8 Bend	133.25	50.89
			<i>For Extra Heavy Fittings, Add</i>	19.97	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	3.81	
			<i>For Work In Restricted Working Space, Add</i>	22.86	
22 13 16 00-0062	EA		4" Bell And Spigot Cast Iron 1/8 Bend	187.98	67.68
			<i>For Extra Heavy Fittings, Add</i>	30.30	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	5.07	
			<i>For Work In Restricted Working Space, Add</i>	30.43	
22 13 16 00-0063	EA		5" Bell And Spigot Cast Iron 1/8 Bend	226.52	78.32
			<i>For Extra Heavy Fittings, Add</i>	38.20	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	5.87	
			<i>For Work In Restricted Working Space, Add</i>	35.21	
22 13 16 00-0064	EA		6" Bell And Spigot Cast Iron 1/8 Bend	260.95	87.32
			<i>For Extra Heavy Fittings, Add</i>	45.49	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	6.55	
			<i>For Work In Restricted Working Space, Add</i>	39.29	
22 13 16 00-0065	EA		8" Bell And Spigot Cast Iron 1/8 Bend	502.81	118.45
			<i>For Extra Heavy Fittings, Add</i>	113.82	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	8.88	
			<i>For Work In Restricted Working Space, Add</i>	53.28	
22 13 16 00-0066	EA		10" Bell And Spigot Cast Iron 1/8 Bend	696.82	146.14
			<i>For Extra Heavy Fittings, Add</i>	167.18	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	10.96	
			<i>For Work In Restricted Working Space, Add</i>	65.75	
22 13 16 00-0067	EA		12" Bell And Spigot Cast Iron 1/8 Bend	1,110.60	189.54
			<i>For Extra Heavy Fittings, Add</i>	289.28	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	14.20	
			<i>For Work In Restricted Working Space, Add</i>	85.22	
22 13 16 00-0068	EA		15" Bell And Spigot Cast Iron 1/8 Bend	2,082.36	223.40
			<i>For Extra Heavy Fittings, Add</i>	611.62	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	16.74	
			<i>For Work In Restricted Working Space, Add</i>	100.46	
22 13 16 00-0069 Bell And Spigot Cast Iron Wyes (22 13 16 00-0030)					
22 13 16 00-0070	EA		2" Bell And Spigot Cast Iron Wye	162.16	90.37
			<i>For Extra Heavy Fittings, Add</i>	9.31	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	6.78	
			<i>For Work In Restricted Working Space, Add</i>	40.67	

22 Plumbing
22 10 Plumbing Piping
22 13 Facility Sanitary Sewerage



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0071 EA 3" Bell And Spigot Cast Iron Wye	198.22	98.97
For Extra Heavy Fittings, Add	17.44	
For Above Ground Cast Iron Pipe Installation, Add	7.42	
For Work In Restricted Working Space, Add	44.52	
22 13 16 00-0072 EA 4" Bell And Spigot Cast Iron Wye	260.70	129.70
For Extra Heavy Fittings, Add	23.21	
For Above Ground Cast Iron Pipe Installation, Add	9.72	
For Work In Restricted Working Space, Add	58.32	
22 13 16 00-0073 EA 5" Bell And Spigot Cast Iron Wye	312.60	134.78
For Extra Heavy Fittings, Add	38.66	
For Above Ground Cast Iron Pipe Installation, Add	10.11	
For Work In Restricted Working Space, Add	60.64	
22 13 16 00-0074 EA 6" Bell And Spigot Cast Iron Wye	389.24	159.77
For Extra Heavy Fittings, Add	52.39	
For Above Ground Cast Iron Pipe Installation, Add	11.98	
For Work In Restricted Working Space, Add	71.87	
22 13 16 00-0075 EA 8" Bell And Spigot Cast Iron Wye	691.36	216.31
For Extra Heavy Fittings, Add	128.46	
For Above Ground Cast Iron Pipe Installation, Add	16.22	
For Work In Restricted Working Space, Add	97.30	
22 13 16 00-0076 EA 10" Bell And Spigot Cast Iron Wye	950.46	245.42
For Extra Heavy Fittings, Add	203.90	
For Above Ground Cast Iron Pipe Installation, Add	18.39	
For Work In Restricted Working Space, Add	110.37	
22 13 16 00-0077 EA 12" Bell And Spigot Cast Iron Wye	1,385.07	298.72
For Extra Heavy Fittings, Add	328.02	
For Above Ground Cast Iron Pipe Installation, Add	22.39	
For Work In Restricted Working Space, Add	134.36	
22 13 16 00-0078 EA 15" Bell And Spigot Cast Iron Wye	2,107.31	335.16
For Extra Heavy Fittings, Add	561.69	
For Above Ground Cast Iron Pipe Installation, Add	25.12	
For Work In Restricted Working Space, Add	150.74	
22 13 16 00-0079 Bell And Spigot Cast Iron Reducing Wyes (22 13 16 00-0030)		
22 13 16 00-0080 EA 3" x 2" Bell And Spigot Cast Iron Reducing Wye	237.33	94.45
For Extra Heavy Fittings, Add	33.48	
For Above Ground Cast Iron Pipe Installation, Add	7.08	
For Work In Restricted Working Space, Add	42.50	
22 13 16 00-0081 EA 4" x 2" Bell And Spigot Cast Iron Reducing Wye	289.55	116.73
For Extra Heavy Fittings, Add	40.06	
For Above Ground Cast Iron Pipe Installation, Add	8.75	
For Work In Restricted Working Space, Add	52.53	
22 13 16 00-0082 EA 4" x 3" Bell And Spigot Cast Iron Reducing Wye	318.89	119.69
For Extra Heavy Fittings, Add	48.77	
For Above Ground Cast Iron Pipe Installation, Add	8.98	
For Work In Restricted Working Space, Add	53.87	
22 13 16 00-0083 EA 6" x 2" Bell And Spigot Cast Iron Reducing Wye	446.76	143.15
For Extra Heavy Fittings, Add	81.28	
For Above Ground Cast Iron Pipe Installation, Add	10.73	
For Work In Restricted Working Space, Add	64.36	
22 13 16 00-0084 EA 6" x 3" Bell And Spigot Cast Iron Reducing Wye	458.02	145.77
For Extra Heavy Fittings, Add	83.80	
For Above Ground Cast Iron Pipe Installation, Add	10.93	
For Work In Restricted Working Space, Add	65.58	
22 13 16 00-0085 EA 6" x 4" Bell And Spigot Cast Iron Reducing Wye	480.33	155.52
For Extra Heavy Fittings, Add	86.51	
For Above Ground Cast Iron Pipe Installation, Add	11.66	
For Work In Restricted Working Space, Add	69.95	
22 13 16 00-0086 EA 8" x 2" Bell And Spigot Cast Iron Reducing Wye	691.51	173.95
For Extra Heavy Fittings, Add	150.76	
For Above Ground Cast Iron Pipe Installation, Add	13.04	
For Work In Restricted Working Space, Add	78.23	
22 13 16 00-0087 EA 8" x 3" Bell And Spigot Cast Iron Reducing Wye	721.37	177.30
For Extra Heavy Fittings, Add	159.46	
For Above Ground Cast Iron Pipe Installation, Add	13.29	
For Work In Restricted Working Space, Add	79.73	
22 13 16 00-0088 EA 8" x 4" Bell And Spigot Cast Iron Reducing Wye	740.09	185.67
For Extra Heavy Fittings, Add	161.60	
For Above Ground Cast Iron Pipe Installation, Add	13.92	
For Work In Restricted Working Space, Add	83.52	
22 13 16 00-0089 EA 8" x 6" Bell And Spigot Cast Iron Reducing Wye	870.37	206.53
For Extra Heavy Fittings, Add	196.23	
For Above Ground Cast Iron Pipe Installation, Add	15.49	
For Work In Restricted Working Space, Add	92.91	
22 13 16 00-0090 EA 10" x 3" Bell And Spigot Cast Iron Reducing Wye	1,053.75	193.52
For Extra Heavy Fittings, Add	267.26	
For Above Ground Cast Iron Pipe Installation, Add	14.51	
For Work In Restricted Working Space, Add	87.05	
22 13 16 00-0091 EA 10" x 4" Bell And Spigot Cast Iron Reducing Wye	1,096.42	202.02
For Extra Heavy Fittings, Add	277.71	
For Above Ground Cast Iron Pipe Installation, Add	15.15	
For Work In Restricted Working Space, Add	90.89	



Plumbing	22
Plumbing Piping	22 10
Facility Sanitary Sewerage	22 13

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0092 EA 10" x 6" Bell And Spigot Cast Iron Reducing Wye <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,200.21 302.87 16.74 100.46	223.40
22 13 16 00-0093 EA 10" x 8" Bell And Spigot Cast Iron Reducing Wye <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,568.32 424.60 17.76 106.56	236.92
22 13 16 00-0094 EA 12" x 4" Bell And Spigot Cast Iron Reducing Wye <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,612.00 439.88 17.76 106.56	236.92
22 13 16 00-0095 EA 12" x 6" Bell And Spigot Cast Iron Reducing Wye <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,681.00 453.62 19.25 115.48	256.74
22 13 16 00-0096 EA 12" x 8" Bell And Spigot Cast Iron Reducing Wye <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,963.77 545.94 20.20 121.19	269.50
22 13 16 00-0097 EA 12" x 10" Bell And Spigot Cast Iron Reducing Wye <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,371.19 684.31 20.80 124.81	277.48
22 13 16 00-0098 EA 15" x 4" Bell And Spigot Cast Iron Reducing Wye <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	3,858.02 1,213.02 19.61 117.68	261.64
22 13 16 00-0099 EA 15" x 6" Bell And Spigot Cast Iron Reducing Wye <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,029.69 1,261.79 21.23 127.38	283.15
22 13 16 00-0100 EA 15" x 8" Bell And Spigot Cast Iron Reducing Wye <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,114.30 1,285.01 22.14 132.86	295.38
22 13 16 00-0101 EA 15" x 10" Bell And Spigot Cast Iron Reducing Wye <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,211.10 1,313.65 22.89 137.34	305.41
22 13 16 00-0102 EA 15" x 12" Bell And Spigot Cast Iron Reducing Wye <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,320.74 1,342.68 24.23 145.35	323.18
22 13 16 00-0103 Bell And Spigot Cast Iron Combination Wye And 1/8 Bends (22 13 16 00-0030)		
22 13 16 00-0104 EA 2" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	173.55 13.30 6.78 40.67	90.37
22 13 16 00-0105 EA 3" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	205.24 19.89 7.42 44.52	98.97
22 13 16 00-0106 EA 4" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	272.92 27.48 9.72 58.32	129.70
22 13 16 00-0107 EA 5" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	354.20 49.79 10.60 63.58	141.40
22 13 16 00-0108 EA 6" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	443.04 63.05 13.15 78.87	175.38
22 13 16 00-0109 EA 8" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	787.70 153.49 17.46 104.75	232.92
22 13 16 00-0110 EA 10" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,126.86 234.17 22.89 137.34	305.41
22 13 16 00-0111 EA 12" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,505.45 320.89 29.43 176.58	392.59

22 13 16 00-0112 Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bends (22 13 16 00-0030)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0113 EA 3" x 2" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend.....	184.30	94.45
For Extra Heavy Fittings, Add	14.92	
For Above Ground Cast Iron Pipe Installation, Add	7.08	
For Work In Restricted Working Space, Add	42.50	
22 13 16 00-0114 EA 4" x 2" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend.....	253.39	116.73
For Extra Heavy Fittings, Add	27.41	
For Above Ground Cast Iron Pipe Installation, Add	8.75	
For Work In Restricted Working Space, Add	52.53	
22 13 16 00-0115 EA 4" x 3" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend.....	271.17	119.69
For Extra Heavy Fittings, Add	32.07	
For Above Ground Cast Iron Pipe Installation, Add	8.98	
For Work In Restricted Working Space, Add	53.87	
22 13 16 00-0116 EA 6" x 2" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend.....	378.33	143.15
For Extra Heavy Fittings, Add	57.33	
For Above Ground Cast Iron Pipe Installation, Add	10.73	
For Work In Restricted Working Space, Add	64.36	
22 13 16 00-0117 EA 6" x 3" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend.....	393.06	145.77
For Extra Heavy Fittings, Add	61.06	
For Above Ground Cast Iron Pipe Installation, Add	10.93	
For Work In Restricted Working Space, Add	65.58	
22 13 16 00-0118 EA 6" x 4" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend.....	416.95	155.52
For Extra Heavy Fittings, Add	64.32	
For Above Ground Cast Iron Pipe Installation, Add	11.66	
For Work In Restricted Working Space, Add	69.95	
22 13 16 00-0119 EA 8" x 2" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend.....	564.41	173.95
For Extra Heavy Fittings, Add	106.27	
For Above Ground Cast Iron Pipe Installation, Add	13.04	
For Work In Restricted Working Space, Add	78.23	
22 13 16 00-0120 EA 8" x 4" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend.....	582.02	185.67
For Extra Heavy Fittings, Add	106.27	
For Above Ground Cast Iron Pipe Installation, Add	13.92	
For Work In Restricted Working Space, Add	83.52	
22 13 16 00-0121 EA 8" x 6" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend.....	726.53	206.53
For Extra Heavy Fittings, Add	145.89	
For Above Ground Cast Iron Pipe Installation, Add	15.49	
For Work In Restricted Working Space, Add	92.91	
22 13 16 00-0122 Bell And Spigot Cast Iron Double Wyes (22 13 16 00-0030)		
22 13 16 00-0123 EA 2" Bell And Spigot Cast Iron Double Wye	267.11	108.13
For Extra Heavy Fittings, Add	36.77	
For Above Ground Cast Iron Pipe Installation, Add	8.10	
For Work In Restricted Working Space, Add	48.62	
22 13 16 00-0124 EA 3" Bell And Spigot Cast Iron Double Wye	380.70	136.33
For Extra Heavy Fittings, Add	61.73	
For Above Ground Cast Iron Pipe Installation, Add	10.22	
For Work In Restricted Working Space, Add	61.30	
22 13 16 00-0125 EA 4" Bell And Spigot Cast Iron Double Wye	511.82	172.42
For Extra Heavy Fittings, Add	88.63	
For Above Ground Cast Iron Pipe Installation, Add	12.93	
For Work In Restricted Working Space, Add	77.57	
22 13 16 00-0126 EA 6" Bell And Spigot Cast Iron Double Wye	929.80	245.45
For Extra Heavy Fittings, Add	196.62	
For Above Ground Cast Iron Pipe Installation, Add	18.40	
For Work In Restricted Working Space, Add	110.41	
22 13 16 00-0127 EA 8" Bell And Spigot Cast Iron Double Wye	1,805.73	292.41
For Extra Heavy Fittings, Add	478.59	
For Above Ground Cast Iron Pipe Installation, Add	21.92	
For Work In Restricted Working Space, Add	131.50	
22 13 16 00-0128 EA 10" Bell And Spigot Cast Iron Double Wye	2,374.34	327.18
For Extra Heavy Fittings, Add	659.34	
For Above Ground Cast Iron Pipe Installation, Add	24.53	
For Work In Restricted Working Space, Add	147.15	
22 13 16 00-0129 EA 12" Bell And Spigot Cast Iron Double Wye	1,697.62	392.59
For Extra Heavy Fittings, Add	388.15	
For Above Ground Cast Iron Pipe Installation, Add	29.43	
For Work In Restricted Working Space, Add	176.58	
22 13 16 00-0130 EA 15" Bell And Spigot Cast Iron Double Wye	4,571.99	412.03
For Extra Heavy Fittings, Add	1,383.87	
For Above Ground Cast Iron Pipe Installation, Add	30.90	
For Work In Restricted Working Space, Add	185.42	
22 13 16 00-0131 Bell And Spigot Cast Iron Reducing Double Wyes (22 13 16 00-0030)		
22 13 16 00-0132 EA 3" x 2" Bell And Spigot Cast Iron Reducing Double Wye	253.74	127.87
For Extra Heavy Fittings, Add	21.69	
For Above Ground Cast Iron Pipe Installation, Add	9.59	
For Work In Restricted Working Space, Add	57.53	
22 13 16 00-0133 EA 4" x 2" Bell And Spigot Cast Iron Reducing Double Wye	294.21	146.90
For Extra Heavy Fittings, Add	25.88	
For Above Ground Cast Iron Pipe Installation, Add	11.01	
For Work In Restricted Working Space, Add	66.08	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0134 EA 4" x 3" Bell And Spigot Cast Iron Reducing Double Wye	316.76	154.09
For Extra Heavy Fittings, Add	29.98	
For Above Ground Cast Iron Pipe Installation, Add	11.56	
For Work In Restricted Working Space, Add	69.33	
22 13 16 00-0135 EA 6" x 2" Bell And Spigot Cast Iron Reducing Double Wye	383.07	170.26
For Extra Heavy Fittings, Add	44.74	
For Above Ground Cast Iron Pipe Installation, Add	12.76	
For Work In Restricted Working Space, Add	76.57	
22 13 16 00-0136 EA 6" x 3" Bell And Spigot Cast Iron Reducing Double Wye	404.98	176.75
For Extra Heavy Fittings, Add	49.00	
For Above Ground Cast Iron Pipe Installation, Add	13.25	
For Work In Restricted Working Space, Add	79.49	
22 13 16 00-0137 EA 6" x 4" Bell And Spigot Cast Iron Reducing Double Wye	462.81	192.74
For Extra Heavy Fittings, Add	60.84	
For Above Ground Cast Iron Pipe Installation, Add	14.45	
For Work In Restricted Working Space, Add	86.69	
22 13 16 00-0138 EA 8" x 4" Bell And Spigot Cast Iron Reducing Double Wye	723.73	225.33
For Extra Heavy Fittings, Add	135.10	
For Above Ground Cast Iron Pipe Installation, Add	16.89	
For Work In Restricted Working Space, Add	101.32	
22 13 16 00-0139 EA 8" x 6" Bell And Spigot Cast Iron Reducing Double Wye	794.88	266.66
For Extra Heavy Fittings, Add	138.25	
For Above Ground Cast Iron Pipe Installation, Add	19.99	
For Work In Restricted Working Space, Add	119.96	
22 13 16 00-0140 EA 10" x 4" Bell And Spigot Cast Iron Reducing Double Wye	771.31	241.04
For Extra Heavy Fittings, Add	143.46	
For Above Ground Cast Iron Pipe Installation, Add	18.07	
For Work In Restricted Working Space, Add	108.43	
22 13 16 00-0141 EA 10" x 6" Bell And Spigot Cast Iron Reducing Double Wye	899.61	283.15
For Extra Heavy Fittings, Add	166.26	
For Above Ground Cast Iron Pipe Installation, Add	21.23	
For Work In Restricted Working Space, Add	127.38	
22 13 16 00-0142 EA 10" x 8" Bell And Spigot Cast Iron Reducing Double Wye	1,096.13	308.63
For Extra Heavy Fittings, Add	221.68	
For Above Ground Cast Iron Pipe Installation, Add	23.14	
For Work In Restricted Working Space, Add	138.83	
22 13 16 00-0143 EA 12" x 6" Bell And Spigot Cast Iron Reducing Double Wye	1,119.75	315.72
For Extra Heavy Fittings, Add	226.23	
For Above Ground Cast Iron Pipe Installation, Add	23.67	
For Work In Restricted Working Space, Add	142.01	
22 13 16 00-0144 EA 12" x 8" Bell And Spigot Cast Iron Reducing Double Wye	1,412.82	343.53
For Extra Heavy Fittings, Add	314.23	
For Above Ground Cast Iron Pipe Installation, Add	25.75	
For Work In Restricted Working Space, Add	154.51	
22 13 16 00-0145 Bell And Spigot Cast Iron Double Combination Wye And 1/8 Bends (22 13 16 00-0030)		
22 13 16 00-0146 EA 2" Bell And Spigot Cast Iron Double Combination Wye And 1/8 Bend	229.45	108.13
For Extra Heavy Fittings, Add	23.59	
For Above Ground Cast Iron Pipe Installation, Add	8.10	
For Work In Restricted Working Space, Add	48.62	
22 13 16 00-0147 EA 3" Bell And Spigot Cast Iron Double Combination Wye And 1/8 Bend	308.68	144.64
For Extra Heavy Fittings, Add	32.13	
For Above Ground Cast Iron Pipe Installation, Add	10.84	
For Work In Restricted Working Space, Add	65.07	
22 13 16 00-0148 EA 4" Bell And Spigot Cast Iron Double Combination Wye And 1/8 Bend	400.27	180.88
For Extra Heavy Fittings, Add	45.21	
For Above Ground Cast Iron Pipe Installation, Add	13.56	
For Work In Restricted Working Space, Add	81.33	
22 13 16 00-0149 EA 6" Bell And Spigot Cast Iron Double Combination Wye And 1/8 Bend	811.72	274.31
For Extra Heavy Fittings, Add	140.15	
For Above Ground Cast Iron Pipe Installation, Add	20.56	
For Work In Restricted Working Space, Add	123.39	
22 13 16 00-0150 Bell And Spigot Cast Iron Reducing Double Combination Wye And 1/8 Bends (22 13 16 00-0030)		
22 13 16 00-0151 EA 3" x 2" Bell And Spigot Cast Iron Reducing Double Combination Wye And 1/8 Bend	300.94	129.70
For Extra Heavy Fittings, Add	37.29	
For Above Ground Cast Iron Pipe Installation, Add	9.72	
For Work In Restricted Working Space, Add	58.32	
22 13 16 00-0152 EA 4" x 2" Bell And Spigot Cast Iron Reducing Double Combination Wye And 1/8 Bend	354.52	146.90
For Extra Heavy Fittings, Add	46.98	
For Above Ground Cast Iron Pipe Installation, Add	11.01	
For Work In Restricted Working Space, Add	66.08	
22 13 16 00-0153 EA 4" x 3" Bell And Spigot Cast Iron Reducing Double Combination Wye And 1/8 Bend	397.45	163.54
For Extra Heavy Fittings, Add	53.32	
For Above Ground Cast Iron Pipe Installation, Add	12.26	
For Work In Restricted Working Space, Add	73.53	
22 13 16 00-0154 EA 6" x 4" Bell And Spigot Cast Iron Reducing Double Combination Wye And 1/8 Bend	734.29	204.61
For Extra Heavy Fittings, Add	149.62	
For Above Ground Cast Iron Pipe Installation, Add	15.34	
For Work In Restricted Working Space, Add	92.04	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0155 Bell And Spigot Cast Iron Sanitary Tees (22 13 16 00-0030)		
22 13 16 00-0156 EA 2" Bell And Spigot Cast Iron Sanitary Tee .....188.21		90.51
For Extra Heavy Fittings, Add	18.39	
For Above Ground Cast Iron Pipe Installation, Add	6.78	
For Work In Restricted Working Space, Add	40.70	
22 13 16 00-0157 EA 3" Bell And Spigot Cast Iron Sanitary Tee .....212.54		98.97
For Extra Heavy Fittings, Add	22.45	
For Above Ground Cast Iron Pipe Installation, Add	7.42	
For Work In Restricted Working Space, Add	44.52	
22 13 16 00-0158 EA 4" Bell And Spigot Cast Iron Sanitary Tee .....327.84		121.24
For Extra Heavy Fittings, Add	51.09	
For Above Ground Cast Iron Pipe Installation, Add	9.09	
For Work In Restricted Working Space, Add	54.56	
22 13 16 00-0159 EA 5" Bell And Spigot Cast Iron Sanitary Tee .....446.88		124.66
For Extra Heavy Fittings, Add	90.96	
For Above Ground Cast Iron Pipe Installation, Add	9.35	
For Work In Restricted Working Space, Add	56.10	
22 13 16 00-0160 EA 6" Bell And Spigot Cast Iron Sanitary Tee .....536.06		149.53
For Extra Heavy Fittings, Add	109.15	
For Above Ground Cast Iron Pipe Installation, Add	11.21	
For Work In Restricted Working Space, Add	67.26	
22 13 16 00-0161 EA 8" Bell And Spigot Cast Iron Sanitary Tee .....1,117.44		197.65
For Extra Heavy Fittings, Add	287.39	
For Above Ground Cast Iron Pipe Installation, Add	14.82	
For Work In Restricted Working Space, Add	88.90	
22 13 16 00-0162 EA 10" Bell And Spigot Cast Iron Sanitary Tee .....1,661.91		241.04
For Extra Heavy Fittings, Add	455.17	
For Above Ground Cast Iron Pipe Installation, Add	18.07	
For Work In Restricted Working Space, Add	108.43	
22 13 16 00-0163 EA 12" Bell And Spigot Cast Iron Sanitary Tee .....2,456.06		283.15
For Extra Heavy Fittings, Add	711.01	
For Above Ground Cast Iron Pipe Installation, Add	21.23	
For Work In Restricted Working Space, Add	127.38	
22 13 16 00-0164 Bell And Spigot Cast Iron Reducing Sanitary Tees (22 13 16 00-0030)		
22 13 16 00-0165 EA 3" x 2" Bell And Spigot Cast Iron Reducing Sanitary Tee .....242.30		94.45
For Extra Heavy Fittings, Add	35.22	
For Above Ground Cast Iron Pipe Installation, Add	7.08	
For Work In Restricted Working Space, Add	42.50	
22 13 16 00-0166 EA 4" x 2" Bell And Spigot Cast Iron Reducing Sanitary Tee .....286.40		110.67
For Extra Heavy Fittings, Add	42.19	
For Above Ground Cast Iron Pipe Installation, Add	8.29	
For Work In Restricted Working Space, Add	49.76	
22 13 16 00-0167 EA 4" x 3" Bell And Spigot Cast Iron Reducing Sanitary Tee .....298.01		110.67
For Extra Heavy Fittings, Add	46.25	
For Above Ground Cast Iron Pipe Installation, Add	8.29	
For Work In Restricted Working Space, Add	49.76	
22 13 16 00-0168 EA 6" x 2" Bell And Spigot Cast Iron Reducing Sanitary Tee .....431.28		143.15
For Extra Heavy Fittings, Add	75.86	
For Above Ground Cast Iron Pipe Installation, Add	10.73	
For Work In Restricted Working Space, Add	64.36	
22 13 16 00-0169 EA 6" x 3" Bell And Spigot Cast Iron Reducing Sanitary Tee .....448.07		145.77
For Extra Heavy Fittings, Add	80.31	
For Above Ground Cast Iron Pipe Installation, Add	10.93	
For Work In Restricted Working Space, Add	65.58	
22 13 16 00-0170 EA 6" x 4" Bell And Spigot Cast Iron Reducing Sanitary Tee .....485.31		155.52
For Extra Heavy Fittings, Add	88.25	
For Above Ground Cast Iron Pipe Installation, Add	11.66	
For Work In Restricted Working Space, Add	69.95	
22 13 16 00-0171 EA 8" x 4" Bell And Spigot Cast Iron Reducing Sanitary Tee .....805.88		185.67
For Extra Heavy Fittings, Add	184.62	
For Above Ground Cast Iron Pipe Installation, Add	13.92	
For Work In Restricted Working Space, Add	83.52	
22 13 16 00-0172 EA 8" x 6" Bell And Spigot Cast Iron Reducing Sanitary Tee .....1,003.63		206.53
For Extra Heavy Fittings, Add	242.88	
For Above Ground Cast Iron Pipe Installation, Add	15.49	
For Work In Restricted Working Space, Add	92.91	
22 13 16 00-0173 Bell And Spigot Cast Iron Vent Tees (22 13 16 00-0030)		
22 13 16 00-0174 EA 2" Bell And Spigot Cast Iron Vent Tee .....166.25		90.37
For Extra Heavy Fittings, Add	10.74	
For Above Ground Cast Iron Pipe Installation, Add	6.78	
For Work In Restricted Working Space, Add	40.67	
22 13 16 00-0175 EA 3" Bell And Spigot Cast Iron Vent Tee .....201.81		98.97
For Extra Heavy Fittings, Add	18.69	
For Above Ground Cast Iron Pipe Installation, Add	7.42	
For Work In Restricted Working Space, Add	44.52	
22 13 16 00-0176 EA 4" Bell And Spigot Cast Iron Vent Tee .....266.78		129.70
For Extra Heavy Fittings, Add	25.33	
For Above Ground Cast Iron Pipe Installation, Add	9.72	
For Work In Restricted Working Space, Add	58.32	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0177	EA			5" Bell And Spigot Cast Iron Vent Tee <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	319.92 37.80 10.60 63.58	141.40
22 13 16 00-0178	EA			6" Bell And Spigot Cast Iron Vent Tee <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	402.02 48.69 13.15 78.87	175.38
22 13 16 00-0179	EA			8" Bell And Spigot Cast Iron Vent Tee <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	672.91 113.31 17.46 104.75	232.92
22 13 16 00-0180 Bell And Spigot Cast Iron Tapped Sanitary Tees (22 13 16 00-0030)						
22 13 16 00-0181	EA			2" Bell And Spigot Cast Iron Tapped Sanitary Tee <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	169.84 12.00 6.78 40.67	90.37
22 13 16 00-0182	EA			3" Bell And Spigot Cast Iron Tapped Sanitary Tee <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	187.16 13.57 7.42 44.52	98.97
22 13 16 00-0183	EA			4" Bell And Spigot Cast Iron Tapped Sanitary Tee <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	242.17 16.72 9.72 58.32	129.70
22 13 16 00-0184 Bell And Spigot Cast Iron Tapped Sanitary Crosses (22 13 16 00-0030)						
22 13 16 00-0185	EA			2" Bell And Spigot Cast Iron Tapped Sanitary Cross <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	172.11 12.79 6.78 40.67	90.37
22 13 16 00-0186	EA			3" Bell And Spigot Cast Iron Tapped Sanitary Cross <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	191.47 15.07 7.42 44.52	98.97
22 13 16 00-0187	EA			4" Bell And Spigot Cast Iron Tapped Sanitary Cross <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	253.01 20.51 9.72 58.32	129.70
22 13 16 00-0188 Bell And Spigot Cast Iron Reducers (22 13 16 00-0030)						
22 13 16 00-0189	EA			3" x 2" Bell And Spigot Cast Iron Reducer <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	95.61 6.79 3.81 22.86	50.89
22 13 16 00-0190	EA			4" x 2" Bell And Spigot Cast Iron Reducer <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	120.99 7.10 5.04 30.21	67.10
22 13 16 00-0191	EA			4" x 3" Bell And Spigot Cast Iron Reducer <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	127.80 9.23 5.07 30.43	67.68
22 13 16 00-0192	EA			6" x 2" Bell And Spigot Cast Iron Reducer <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	151.88 13.41 5.68 34.07	75.70
22 13 16 00-0193	EA			6" x 3" Bell And Spigot Cast Iron Reducer <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	158.13 15.07 5.75 34.52	76.70
22 13 16 00-0194	EA			6" x 4" Bell And Spigot Cast Iron Reducer <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	162.93 15.95 5.87 35.21	78.32
22 13 16 00-0195	EA			8" x 2" Bell And Spigot Cast Iron Reducer <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	205.11 29.44 6.05 36.30	80.69
22 13 16 00-0196	EA			8" x 3" Bell And Spigot Cast Iron Reducer <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	235.37 29.75 7.52 45.11	100.30
22 13 16 00-0197	EA			8" x 4" Bell And Spigot Cast Iron Reducer <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	241.54 30.54 7.71 46.29	102.88
22 13 16 00-0198	EA			8" x 6" Bell And Spigot Cast Iron Reducer <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	249.81 31.10 8.05 48.29	107.38



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0199 EA 10" x 4" Bell And Spigot Cast Iron Reducer.....	307.89	120.52
For Extra Heavy Fittings, Add	44.51	
For Above Ground Cast Iron Pipe Installation, Add	9.04	
For Work In Restricted Working Space, Add	54.22	
22 13 16 00-0200 EA 10" x 6" Bell And Spigot Cast Iron Reducer.....	324.48	126.57
For Extra Heavy Fittings, Add	47.12	
For Above Ground Cast Iron Pipe Installation, Add	9.49	
For Work In Restricted Working Space, Add	56.95	
22 13 16 00-0201 EA 10" x 8" Bell And Spigot Cast Iron Reducer.....	344.89	132.11
For Extra Heavy Fittings, Add	51.38	
For Above Ground Cast Iron Pipe Installation, Add	9.90	
For Work In Restricted Working Space, Add	59.43	
22 13 16 00-0202 EA 12" x 4" Bell And Spigot Cast Iron Reducer.....	422.22	143.18
For Extra Heavy Fittings, Add	72.67	
For Above Ground Cast Iron Pipe Installation, Add	10.73	
For Work In Restricted Working Space, Add	64.38	
22 13 16 00-0203 EA 12" x 6" Bell And Spigot Cast Iron Reducer.....	473.29	167.52
For Extra Heavy Fittings, Add	77.72	
For Above Ground Cast Iron Pipe Installation, Add	12.56	
For Work In Restricted Working Space, Add	75.37	
22 13 16 00-0204 EA 12" x 8" Bell And Spigot Cast Iron Reducer.....	514.78	190.82
For Extra Heavy Fittings, Add	80.02	
For Above Ground Cast Iron Pipe Installation, Add	14.31	
For Work In Restricted Working Space, Add	85.84	
22 13 16 00-0205 EA 12" x 10" Bell And Spigot Cast Iron Reducer.....	567.17	219.80
For Extra Heavy Fittings, Add	83.18	
For Above Ground Cast Iron Pipe Installation, Add	16.48	
For Work In Restricted Working Space, Add	98.86	
22 13 16 00-0206 EA 15" x 6" Bell And Spigot Cast Iron Reducer.....	720.94	219.80
For Extra Heavy Fittings, Add	137.00	
For Above Ground Cast Iron Pipe Installation, Add	16.48	
For Work In Restricted Working Space, Add	98.86	
22 13 16 00-0207 EA 15" x 8" Bell And Spigot Cast Iron Reducer.....	768.01	236.92
For Extra Heavy Fittings, Add	144.49	
For Above Ground Cast Iron Pipe Installation, Add	17.76	
For Work In Restricted Working Space, Add	106.56	
22 13 16 00-0208 EA 15" x 10" Bell And Spigot Cast Iron Reducer.....	800.66	249.80
For Extra Heavy Fittings, Add	149.13	
For Above Ground Cast Iron Pipe Installation, Add	18.73	
For Work In Restricted Working Space, Add	112.37	
22 13 16 00-0209 EA 15" x 12" Bell And Spigot Cast Iron Reducer.....	844.70	266.66
For Extra Heavy Fittings, Add	155.69	
For Above Ground Cast Iron Pipe Installation, Add	19.99	
For Work In Restricted Working Space, Add	119.96	
22 13 16 00-0210 Bell And Spigot Cast Iron P-Traps (22 13 16 00-0030)		
22 13 16 00-0211 EA 2" Bell And Spigot Cast Iron P-Trap.....	93.82	40.46
For Extra Heavy Fittings, Add	11.61	
For Above Ground Cast Iron Pipe Installation, Add	3.03	
For Work In Restricted Working Space, Add	18.19	
22 13 16 00-0212 EA 3" Bell And Spigot Cast Iron P-Trap.....	124.47	50.89
For Extra Heavy Fittings, Add	16.89	
For Above Ground Cast Iron Pipe Installation, Add	3.81	
For Work In Restricted Working Space, Add	22.86	
22 13 16 00-0213 EA 4" Bell And Spigot Cast Iron P-Trap.....	169.04	67.68
For Extra Heavy Fittings, Add	23.67	
For Above Ground Cast Iron Pipe Installation, Add	5.07	
For Work In Restricted Working Space, Add	30.43	
22 13 16 00-0214 EA 5" Bell And Spigot Cast Iron P-Trap.....	250.00	70.07
For Extra Heavy Fittings, Add	50.74	
For Above Ground Cast Iron Pipe Installation, Add	5.25	
For Work In Restricted Working Space, Add	31.51	
22 13 16 00-0215 EA 6" Bell And Spigot Cast Iron P-Trap.....	332.36	82.45
For Extra Heavy Fittings, Add	73.08	
For Above Ground Cast Iron Pipe Installation, Add	6.18	
For Work In Restricted Working Space, Add	37.07	
22 13 16 00-0216 EA 8" Bell And Spigot Cast Iron P-Trap.....	718.30	107.38
For Extra Heavy Fittings, Add	195.07	
For Above Ground Cast Iron Pipe Installation, Add	8.05	
For Work In Restricted Working Space, Add	48.29	
22 13 16 00-0217 EA 10" Bell And Spigot Cast Iron P-Trap.....	800.23	132.11
For Extra Heavy Fittings, Add	210.75	
For Above Ground Cast Iron Pipe Installation, Add	9.90	
For Work In Restricted Working Space, Add	59.43	
22 13 16 00-0218 Bell And Spigot Cast Iron Deep Seal P-Traps (22 13 16 00-0030)		
22 13 16 00-0219 EA 2" Bell And Spigot Cast Iron Deep Seal P-Trap.....	106.42	40.46
For Extra Heavy Fittings, Add	16.02	
For Above Ground Cast Iron Pipe Installation, Add	3.03	
For Work In Restricted Working Space, Add	18.19	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	22 13 16 00-0220	EA		3" Bell And Spigot Cast Iron Deep Seal P-Trap <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	149.24 25.56 3.81 22.86	50.89
	22 13 16 00-0221	EA		4" Bell And Spigot Cast Iron Deep Seal P-Trap <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	215.10 39.79 5.07 30.43	67.68
	22 13 16 00-0222	EA		5" Bell And Spigot Cast Iron Deep Seal P-Trap <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	335.17 76.23 5.87 35.21	78.32
	22 13 16 00-0223	EA		6" Bell And Spigot Cast Iron Deep Seal P-Trap <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	356.90 79.08 6.55 39.29	87.32
	22 13 16 00-0224			Bell And Spigot Cast Iron Running Traps With Single Vent <small>(22 13 16 00-0030)</small>		
	22 13 16 00-0225	EA		3" x 3" Bell And Spigot Cast Iron Running Trap With Single Vent <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	247.50 7.42 44.52	97.70
	22 13 16 00-0226	EA		4" x 4" Bell And Spigot Cast Iron Running Trap With Single Vent <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	329.29 9.72 58.32	128.43
	22 13 16 00-0227	EA		5" x 4" Bell And Spigot Cast Iron Running Trap With Single Vent <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	420.43 10.28 61.70	136.04
	22 13 16 00-0228	EA		6" x 4" Bell And Spigot Cast Iron Running Trap With Single Vent <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	811.32 11.66 69.95	154.15
	22 13 16 00-0229	EA		8" x 4" Bell And Spigot Cast Iron Running Trap With Single Vent <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,573.66 13.92 83.52	183.61
	22 13 16 00-0230	EA		8" x 6" Bell And Spigot Cast Iron Running Trap With Single Vent <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,788.24 15.49 92.91	204.86
	22 13 16 00-0231			Bell And Spigot Cast Running Traps With Double Vent <small>(22 13 16 00-0030)</small>		
	22 13 16 00-0232	EA		3" x 3" Bell And Spigot Cast Iron Running Trap With Double Vent <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	320.10 10.22 61.30	134.92
	22 13 16 00-0233	EA		4" x 4" Bell And Spigot Cast Iron Running Trap With Double Vent <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	432.25 12.93 77.57	170.30
	22 13 16 00-0234	EA		6" x 4" Bell And Spigot Cast Iron Running Trap With Double Vent <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	909.82 14.45 86.69	190.49
	22 13 16 00-0235	EA		6" x 6" Bell And Spigot Cast Iron Running Trap With Double Vent <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,057.89 17.47 104.83	230.59
	22 13 16 00-0236	EA		8" x 4" Bell And Spigot Cast Iron Running Trap With Double Vent <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,779.35 16.89 101.32	222.63
	22 13 16 00-0237	EA		8" x 6" Bell And Spigot Cast Iron Running Trap With Double Vent <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	3,055.53 19.99 119.96	264.34
	22 13 16 00-0238	EA		10" x 8" Bell And Spigot Cast Iron Running Trap With Double Vent <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,050.61 23.14 138.83	305.03
	22 13 16 00-0239	EA		12" x 10" Bell And Spigot Cast Iron Running Trap With Double Vent <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	5,585.87 26.71 160.28	352.67
	22 13 16 00-0240	EA		15" x 12" Bell And Spigot Cast Iron Running Trap With Double Vent <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	10,792.35 30.92 185.49	407.91
	22 13 16 00-0241			Bell And Spigot Cast Iron Scission Joint Fittings <small>(22 13 16 00-0030)</small>		
	22 13 16 00-0242	EA		2" Bell And Spigot Cast Iron Scission Joint Fitting <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	178.91 3.02 18.15	
	22 13 16 00-0243	EA		3" Bell And Spigot Cast Iron Scission Joint Fitting <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	243.16 3.40 20.39	
	22 13 16 00-0244	EA		4" Bell And Spigot Cast Iron Scission Joint Fitting <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	283.71 4.55 27.31	
	22 13 16 00-0245	EA		5" Bell And Spigot Cast Iron Scission Joint Fitting <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	348.80 5.29 31.72	
	22 13 16 00-0246	EA		6" Bell And Spigot Cast Iron Scission Joint Fitting <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	423.43 6.39 38.32	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0247 EA 8" Bell And Spigot Cast Iron Scission Joint Fitting.....	783.30	
For Above Ground Cast Iron Pipe Installation, Add	8.07	
For Work In Restricted Working Space, Add	48.43	
22 13 16 00-0248 Cut And Prepare Existing In-Place Cast Iron Pipe (22 13 16 00-0019)		
Note: For use when connecting pipe to an existing in-place system.		
22 13 16 00-0249 EA 2", Cut And Prepare Existing In-Place Cast Iron Pipe.....	16.85	
For Above Ground Cast Iron Pipe Installation, Add	0.84	
For Work In Restricted Working Space, Add	5.06	
22 13 16 00-0250 EA 3", Cut And Prepare Existing In-Place Cast Iron Pipe.....	18.38	
For Above Ground Cast Iron Pipe Installation, Add	0.92	
For Work In Restricted Working Space, Add	5.51	
22 13 16 00-0251 EA 4", Cut And Prepare Existing In-Place Cast Iron Pipe.....	22.97	
For Above Ground Cast Iron Pipe Installation, Add	1.15	
For Work In Restricted Working Space, Add	6.89	
22 13 16 00-0252 EA 6", Cut And Prepare Existing In-Place Cast Iron Pipe.....	27.56	
For Above Ground Cast Iron Pipe Installation, Add	1.38	
For Work In Restricted Working Space, Add	8.27	
22 13 16 00-0253 EA 8", Cut And Prepare Existing In-Place Cast Iron Pipe.....	36.75	
For Above Ground Cast Iron Pipe Installation, Add	1.84	
For Work In Restricted Working Space, Add	11.03	
22 13 16 00-0254 EA 10", Cut And Prepare Existing In-Place Cast Iron Pipe.....	42.87	
For Above Ground Cast Iron Pipe Installation, Add	2.14	
For Work In Restricted Working Space, Add	12.86	
22 13 16 00-0255 EA 12", Cut And Prepare Existing In-Place Cast Iron Pipe.....	50.53	
For Above Ground Cast Iron Pipe Installation, Add	2.53	
For Work In Restricted Working Space, Add	15.16	
22 13 16 00-0256 EA 15", Cut And Prepare Existing In-Place Cast Iron Pipe.....	58.19	
For Above Ground Cast Iron Pipe Installation, Add	2.91	
For Work In Restricted Working Space, Add	17.46	
22 13 16 00-0257 Joint Material (22 13 16 00-0019)		
Note: Labor costs are included in the installation costs for fittings.		
22 13 16 00-0258 LB Lead (1 LB/Diameter Inch) Joint Material.....	7.19	
22 13 16 00-0259 LB Oakum (1/8 LB/Diameter Inch) Joint Material.....	15.45	
22 13 16 00-0260 EA 2" Dual Tite Rubber Gasket.....	3.17	
22 13 16 00-0261 EA 3" Dual Tite Rubber Gasket.....	4.34	
22 13 16 00-0262 EA 4" Dual Tite Rubber Gasket.....	5.40	
22 13 16 00-0263 EA 6" Dual Tite Rubber Gasket.....	8.95	
22 13 16 00-0264 EA 8" Dual Tite Rubber Gasket.....	19.74	
22 13 16 00-0265 EA 10" Dual Tite Rubber Gasket.....	30.27	
22 13 16 00-0266 EA 12" Dual Tite Rubber Gasket.....	38.57	
22 13 16 00-0267 EA 15" Dual Tite Rubber Gasket.....	45.81	
22 13 16 00-0268 No Hub Cast Iron Soil Pipe And Fittings (22 13 16)		
Note: Service Weight. Excludes hangers.		
22 13 16 00-0269 No Hub Cast Iron Pipe (22 13 16 00-0268)		
Note: Excludes couplings.		
22 13 16 00-0270 LF 1-1/2" No Hub Cast Iron Pipe.....	21.46	8.46
For Below Ground Installation, Add	0.64	
For Work In Restricted Working Space, Add	3.81	
22 13 16 00-0271 LF 2" No Hub Cast Iron Pipe.....	22.82	9.02
For Below Ground Installation, Add	0.68	
For Work In Restricted Working Space, Add	4.09	
22 13 16 00-0272 LF 3" No Hub Cast Iron Pipe.....	32.45	13.11
For Below Ground Installation, Add	0.99	
For Work In Restricted Working Space, Add	5.92	
22 13 16 00-0273 LF 4" No Hub Cast Iron Pipe.....	42.11	17.05
For Below Ground Installation, Add	1.28	
For Work In Restricted Working Space, Add	7.69	
22 13 16 00-0274 LF 5" No Hub Cast Iron Pipe.....	51.62	19.11
For Below Ground Installation, Add	1.43	
For Work In Restricted Working Space, Add	8.60	
22 13 16 00-0275 LF 6" No Hub Cast Iron Pipe.....	59.62	20.86
For Below Ground Installation, Add	1.56	
For Work In Restricted Working Space, Add	9.37	
22 13 16 00-0276 LF 8" No Hub Cast Iron Pipe.....	90.75	30.26
For Below Ground Installation, Add	2.26	
For Work In Restricted Working Space, Add	13.58	
22 13 16 00-0277 LF 10" No Hub Cast Iron Pipe.....	126.89	34.38
For Below Ground Installation, Add	2.58	
For Work In Restricted Working Space, Add	15.45	
22 13 16 00-0278 No Hub Cast Iron Fittings (22 13 16 00-0268)		
22 13 16 00-0279 No Hub Cast Iron Long Sweeps (22 13 16 00-0278)		
22 13 16 00-0280 EA 1-1/2" No Hub Cast Iron Long Sweep.....	76.43	38.34
For Below Ground Installation, Add	2.88	
For Work In Restricted Working Space, Add	17.26	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	22 13 16 00-0281	EA		2" No Hub Cast Iron Long Sweep	79.35	40.04
				<i>For Below Ground Installation, Add</i>	3.00	
				<i>For Work In Restricted Working Space, Add</i>	18.00	
	22 13 16 00-0282	EA		3" No Hub Cast Iron Long Sweep	93.03	45.81
				<i>For Below Ground Installation, Add</i>	3.44	
				<i>For Work In Restricted Working Space, Add</i>	20.63	
	22 13 16 00-0283	EA		4" No Hub Cast Iron Long Sweep	127.11	60.63
				<i>For Below Ground Installation, Add</i>	4.55	
				<i>For Work In Restricted Working Space, Add</i>	27.29	
	22 13 16 00-0284	EA		5" No Hub Cast Iron Long Sweep	161.11	63.08
				<i>For Below Ground Installation, Add</i>	4.73	
				<i>For Work In Restricted Working Space, Add</i>	28.36	
	22 13 16 00-0285	EA		6" No Hub Cast Iron Long Sweep	191.30	75.20
				<i>For Below Ground Installation, Add</i>	5.64	
				<i>For Work In Restricted Working Space, Add</i>	33.85	
	22 13 16 00-0286	EA		8" No Hub Cast Iron Long Sweep	361.71	98.11
				<i>For Below Ground Installation, Add</i>	7.36	
				<i>For Work In Restricted Working Space, Add</i>	44.15	
	22 13 16 00-0287			No Hub Cast Iron Reducing Long Sweeps (22 13 16 00-0278)		
	22 13 16 00-0288	EA		3" x 2" No Hub Cast Iron Reducing Long Sweep	113.02	45.81
				<i>For Below Ground Installation, Add</i>	3.44	
				<i>For Work In Restricted Working Space, Add</i>	20.63	
	22 13 16 00-0289	EA		4" x 3" No Hub Cast Iron Reducing Long Sweep	165.20	60.63
				<i>For Below Ground Installation, Add</i>	4.55	
				<i>For Work In Restricted Working Space, Add</i>	27.29	
	22 13 16 00-0290			No Hub Cast Iron Short Sweeps (22 13 16 00-0278)		
	22 13 16 00-0291	EA		2" No Hub Cast Iron Short Sweep	75.33	40.04
				<i>For Below Ground Installation, Add</i>	3.00	
				<i>For Work In Restricted Working Space, Add</i>	18.00	
	22 13 16 00-0292	EA		3" No Hub Cast Iron Short Sweep	89.85	45.81
				<i>For Below Ground Installation, Add</i>	3.44	
				<i>For Work In Restricted Working Space, Add</i>	20.63	
	22 13 16 00-0293	EA		4" No Hub Cast Iron Short Sweep	125.44	60.63
				<i>For Below Ground Installation, Add</i>	4.55	
				<i>For Work In Restricted Working Space, Add</i>	27.29	
	22 13 16 00-0294	EA		5" No Hub Cast Iron Short Sweep	161.73	63.08
				<i>For Below Ground Installation, Add</i>	4.73	
				<i>For Work In Restricted Working Space, Add</i>	28.36	
	22 13 16 00-0295	EA		6" No Hub Cast Iron Short Sweep	181.55	75.20
				<i>For Below Ground Installation, Add</i>	5.64	
				<i>For Work In Restricted Working Space, Add</i>	33.85	
	22 13 16 00-0296	EA		8" No Hub Cast Iron Short Sweep	332.23	98.11
				<i>For Below Ground Installation, Add</i>	7.36	
				<i>For Work In Restricted Working Space, Add</i>	44.15	
	22 13 16 00-0297	EA		10" No Hub Cast Iron Short Sweep	531.54	137.39
				<i>For Below Ground Installation, Add</i>	10.30	
				<i>For Work In Restricted Working Space, Add</i>	61.80	
	22 13 16 00-0298			No Hub Cast Iron 1/4 Bends (22 13 16 00-0278)		
	22 13 16 00-0299	EA		1-1/2" No Hub Cast Iron 1/4 Bend	69.44	38.34
				<i>For Below Ground Installation, Add</i>	2.88	
				<i>For Work In Restricted Working Space, Add</i>	17.26	
	22 13 16 00-0300	EA		2" No Hub Cast Iron 1/4 Bend	72.56	40.04
				<i>For Below Ground Installation, Add</i>	3.00	
				<i>For Work In Restricted Working Space, Add</i>	18.00	
	22 13 16 00-0301	EA		3" No Hub Cast Iron 1/4 Bend	85.36	45.81
				<i>For Below Ground Installation, Add</i>	3.44	
				<i>For Work In Restricted Working Space, Add</i>	20.63	
	22 13 16 00-0302	EA		4" No Hub Cast Iron 1/4 Bend	115.53	60.63
				<i>For Below Ground Installation, Add</i>	4.55	
				<i>For Work In Restricted Working Space, Add</i>	27.29	
	22 13 16 00-0303	EA		5" No Hub Cast Iron 1/4 Bend	149.42	63.08
				<i>For Below Ground Installation, Add</i>	4.73	
				<i>For Work In Restricted Working Space, Add</i>	28.36	
	22 13 16 00-0304	EA		6" No Hub Cast Iron 1/4 Bend	173.67	75.20
				<i>For Below Ground Installation, Add</i>	5.64	
				<i>For Work In Restricted Working Space, Add</i>	33.85	
	22 13 16 00-0305	EA		8" No Hub Cast Iron 1/4 Bend	309.27	98.11
				<i>For Below Ground Installation, Add</i>	7.36	
				<i>For Work In Restricted Working Space, Add</i>	44.15	
	22 13 16 00-0306			No Hub Cast Iron 1/8 Bends (22 13 16 00-0278)		
	22 13 16 00-0307	EA		1-1/2" No Hub Cast Iron 1/8 Bend	66.88	38.34
				<i>For Below Ground Installation, Add</i>	2.88	
				<i>For Work In Restricted Working Space, Add</i>	17.26	
	22 13 16 00-0308	EA		2" No Hub Cast Iron 1/8 Bend	69.54	40.04
				<i>For Below Ground Installation, Add</i>	3.00	
				<i>For Work In Restricted Working Space, Add</i>	18.00	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0309 EA 3" No Hub Cast Iron 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	82.39 3.44 20.63	45.81
22 13 16 00-0310 EA 4" No Hub Cast Iron 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	108.85 4.55 27.29	60.63
22 13 16 00-0311 EA 6" No Hub Cast Iron 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	175.11 6.71 40.28	89.53
22 13 16 00-0312 EA 8" No Hub Cast Iron 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	284.97 8.81 52.87	117.58
22 13 16 00-0313 EA 10" No Hub Cast Iron 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	422.00 10.84 65.07	144.64
22 13 16 00-0314 No Hub Cast Iron Wyes (22 13 16 00-0278)		
22 13 16 00-0315 EA 1-1/2" No Hub Cast Iron Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	106.96 4.52 27.11	60.34
22 13 16 00-0316 EA 2" No Hub Cast Iron Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	139.39 6.13 36.78	81.77
22 13 16 00-0317 EA 3" No Hub Cast Iron Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	157.22 6.71 40.28	89.53
22 13 16 00-0318 EA 4" No Hub Cast Iron Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	213.48 8.81 52.87	117.58
22 13 16 00-0319 EA 5" No Hub Cast Iron Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	264.69 9.20 55.22	122.79
22 13 16 00-0320 EA 6" No Hub Cast Iron Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	314.13 10.93 65.58	145.77
22 13 16 00-0321 EA 8" No Hub Cast Iron Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	518.77 14.72 88.29	196.36
22 13 16 00-0322 EA 10" No Hub Cast Iron Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	813.03 16.35 98.10	218.12
22 13 16 00-0323 No Hub Cast Iron Reducing Wyes (22 13 16 00-0278)		
22 13 16 00-0324 EA 3" x 1-1/2" No Hub Cast Iron Reducing Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	135.11 5.85 35.10	78.10
22 13 16 00-0325 EA 3" x 2" No Hub Cast Iron Reducing Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	152.37 6.71 40.28	89.53
22 13 16 00-0326 EA 4" x 2" No Hub Cast Iron Reducing Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	171.57 7.42 44.52	98.97
22 13 16 00-0327 EA 4" x 3" No Hub Cast Iron Reducing Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	195.93 8.24 49.47	109.97
22 13 16 00-0328 EA 6" x 2" No Hub Cast Iron Reducing Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	237.54 9.30 55.81	124.04
22 13 16 00-0329 EA 6" x 3" No Hub Cast Iron Reducing Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	252.38 9.72 58.29	129.66
22 13 16 00-0330 EA 6" x 4" No Hub Cast Iron Reducing Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	290.72 11.36 68.14	151.52
22 13 16 00-0331 EA 8" x 4" No Hub Cast Iron Reducing Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	359.98 11.57 69.44	154.38
22 13 16 00-0332 EA 8" x 6" No Hub Cast Iron Reducing Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	413.06 12.72 76.30	169.70
22 13 16 00-0333 EA 10" x 4" No Hub Cast Iron Reducing Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	607.20 13.55 81.32	180.78
22 13 16 00-0334 EA 10" x 6" No Hub Cast Iron Reducing Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	641.83 14.51 87.05	193.52
22 13 16 00-0335 EA 10" x 8" No Hub Cast Iron Reducing Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	732.11 15.49 92.94	206.66
22 13 16 00-0336 No Hub Cast Iron Combination Wye And 1/8 Bends (22 13 16 00-0278)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0337 EA 1-1/2" No Hub Cast Iron Combination Wye And 1/8 Bend.....	122.01	70.21
<i>For Below Ground Installation, Add</i>	5.26	
<i>For Work In Restricted Working Space, Add</i>	31.56	
22 13 16 00-0338 EA 2" No Hub Cast Iron Combination Wye And 1/8 Bend.....	140.07	81.77
<i>For Below Ground Installation, Add</i>	6.13	
<i>For Work In Restricted Working Space, Add</i>	36.78	
22 13 16 00-0339 EA 3" No Hub Cast Iron Combination Wye And 1/8 Bend.....	162.33	89.53
<i>For Below Ground Installation, Add</i>	6.71	
<i>For Work In Restricted Working Space, Add</i>	40.28	
22 13 16 00-0340 EA 4" No Hub Cast Iron Combination Wye And 1/8 Bend.....	227.94	117.58
<i>For Below Ground Installation, Add</i>	8.81	
<i>For Work In Restricted Working Space, Add</i>	52.87	
22 13 16 00-0341 EA 6" No Hub Cast Iron Combination Wye And 1/8 Bend.....	401.29	180.88
<i>For Below Ground Installation, Add</i>	13.56	
<i>For Work In Restricted Working Space, Add</i>	81.33	
22 13 16 00-0342 EA 8" No Hub Cast Iron Combination Wye And 1/8 Bend.....	674.55	232.06
<i>For Below Ground Installation, Add</i>	17.40	
<i>For Work In Restricted Working Space, Add</i>	104.38	
22 13 16 00-0343 EA 10" No Hub Cast Iron Combination Wye And 1/8 Bend.....	795.63	280.56
<i>For Below Ground Installation, Add</i>	21.03	
<i>For Work In Restricted Working Space, Add</i>	126.18	
22 13 16 00-0344 No Hub Cast Iron Reducing Combination Wye And 1/8 Bends (22 13 16 00-0278)		
22 13 16 00-0345 EA 2" x 1-1/2" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend.....	140.90	81.77
<i>For Below Ground Installation, Add</i>	6.13	
<i>For Work In Restricted Working Space, Add</i>	36.78	
22 13 16 00-0346 EA 3" x 2" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend.....	154.92	89.53
<i>For Below Ground Installation, Add</i>	6.71	
<i>For Work In Restricted Working Space, Add</i>	40.28	
22 13 16 00-0347 EA 4" x 2" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend.....	176.68	98.97
<i>For Below Ground Installation, Add</i>	7.42	
<i>For Work In Restricted Working Space, Add</i>	44.52	
22 13 16 00-0348 EA 4" x 3" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend.....	200.89	109.97
<i>For Below Ground Installation, Add</i>	8.24	
<i>For Work In Restricted Working Space, Add</i>	49.47	
22 13 16 00-0349 EA 6" x 2" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend.....	252.41	124.04
<i>For Below Ground Installation, Add</i>	9.30	
<i>For Work In Restricted Working Space, Add</i>	55.81	
22 13 16 00-0350 EA 6" x 3" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend.....	278.37	129.66
<i>For Below Ground Installation, Add</i>	9.72	
<i>For Work In Restricted Working Space, Add</i>	58.29	
22 13 16 00-0351 EA 6" x 4" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend.....	313.47	151.52
<i>For Below Ground Installation, Add</i>	11.36	
<i>For Work In Restricted Working Space, Add</i>	68.14	
22 13 16 00-0352 EA 8" x 4" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend.....	402.50	154.38
<i>For Below Ground Installation, Add</i>	11.57	
<i>For Work In Restricted Working Space, Add</i>	69.44	
22 13 16 00-0353 EA 8" x 6" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend.....	510.27	169.70
<i>For Below Ground Installation, Add</i>	12.72	
<i>For Work In Restricted Working Space, Add</i>	76.30	
22 13 16 00-0354 No Hub Cast Iron Double Wyes (22 13 16 00-0278)		
22 13 16 00-0355 EA 2" No Hub Cast Iron Double Wye	175.84	101.64
<i>For Below Ground Installation, Add</i>	7.62	
<i>For Work In Restricted Working Space, Add</i>	45.72	
22 13 16 00-0356 EA 3" No Hub Cast Iron Double Wye	228.70	123.78
<i>For Below Ground Installation, Add</i>	9.28	
<i>For Work In Restricted Working Space, Add</i>	55.65	
22 13 16 00-0357 EA 4" No Hub Cast Iron Double Wye	291.76	135.34
<i>For Below Ground Installation, Add</i>	10.14	
<i>For Work In Restricted Working Space, Add</i>	60.86	
22 13 16 00-0358 EA 6" No Hub Cast Iron Double Wye	428.60	183.75
<i>For Below Ground Installation, Add</i>	13.77	
<i>For Work In Restricted Working Space, Add</i>	82.62	
22 13 16 00-0359 EA 8" No Hub Cast Iron Double Wye	789.42	249.80
<i>For Below Ground Installation, Add</i>	18.73	
<i>For Work In Restricted Working Space, Add</i>	112.37	
22 13 16 00-0360 No Hub Cast Iron Reducing Double Wyes (22 13 16 00-0278)		
22 13 16 00-0361 EA 3" x 2" No Hub Cast Iron Double Wye	205.89	112.64
<i>For Below Ground Installation, Add</i>	8.44	
<i>For Work In Restricted Working Space, Add</i>	50.65	
22 13 16 00-0362 EA 4" x 2" No Hub Cast Iron Double Wye	244.24	129.70
<i>For Below Ground Installation, Add</i>	9.72	
<i>For Work In Restricted Working Space, Add</i>	58.34	
22 13 16 00-0363 EA 4" x 3" No Hub Cast Iron Double Wye	268.15	141.40
<i>For Below Ground Installation, Add</i>	10.60	
<i>For Work In Restricted Working Space, Add</i>	63.60	
22 13 16 00-0364 EA 6" x 4" No Hub Cast Iron Double Wye	367.12	162.01
<i>For Below Ground Installation, Add</i>	12.14	
<i>For Work In Restricted Working Space, Add</i>	72.87	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0365 No Hub Cast Iron Double Combination Wye And 1/8 Bends <small>(22 13 16 00-0278)</small>		
22 13 16 00-0366 EA 2" No Hub Cast Iron Double Combination Wye And 1/8 Bend.....	224.16	122.09
<i>For Below Ground Installation, Add</i>	9.16	
<i>For Work In Restricted Working Space, Add</i>	54.93	
22 13 16 00-0367 EA 3" No Hub Cast Iron Double Combination Wye And 1/8 Bend.....	266.45	135.34
<i>For Below Ground Installation, Add</i>	10.14	
<i>For Work In Restricted Working Space, Add</i>	60.86	
22 13 16 00-0368 EA 4" No Hub Cast Iron Double Combination Wye And 1/8 Bend.....	390.01	179.18
<i>For Below Ground Installation, Add</i>	13.43	
<i>For Work In Restricted Working Space, Add</i>	80.56	
22 13 16 00-0369 EA 6" No Hub Cast Iron Double Combination Wye And 1/8 Bend.....	556.47	276.60
<i>For Below Ground Installation, Add</i>	20.73	
<i>For Work In Restricted Working Space, Add</i>	124.40	
22 13 16 00-0370 No Hub Cast Iron Reducing Double Combination Wye And 1/8 Bends <small>(22 13 16 00-0278)</small>		
22 13 16 00-0371 EA 3" x 2" No Hub Cast Iron Reducing Double Combination Wye And 1/8 Bend.....	205.16	105.03
<i>For Below Ground Installation, Add</i>	7.88	
<i>For Work In Restricted Working Space, Add</i>	47.26	
22 13 16 00-0372 EA 4" x 2" No Hub Cast Iron Reducing Double Combination Wye And 1/8 Bend.....	237.99	122.09
<i>For Below Ground Installation, Add</i>	9.16	
<i>For Work In Restricted Working Space, Add</i>	54.93	
22 13 16 00-0373 EA 4" x 3" No Hub Cast Iron Reducing Double Combination Wye And 1/8 Bend.....	279.75	133.37
<i>For Below Ground Installation, Add</i>	10.00	
<i>For Work In Restricted Working Space, Add</i>	59.99	
22 13 16 00-0374 No Hub Cast Iron Sanitary Tees <small>(22 13 16 00-0278)</small>		
22 13 16 00-0375 EA 1-1/2" No Hub Cast Iron Sanitary Tee.....	104.43	59.07
<i>For Below Ground Installation, Add</i>	4.43	
<i>For Work In Restricted Working Space, Add</i>	26.60	
22 13 16 00-0376 EA 2" No Hub Cast Iron Sanitary Tee.....	140.23	81.77
<i>For Below Ground Installation, Add</i>	6.13	
<i>For Work In Restricted Working Space, Add</i>	36.78	
22 13 16 00-0377 EA 3" No Hub Cast Iron Sanitary Tee.....	155.34	89.53
<i>For Below Ground Installation, Add</i>	6.71	
<i>For Work In Restricted Working Space, Add</i>	40.28	
22 13 16 00-0378 EA 4" No Hub Cast Iron Sanitary Tee.....	209.21	117.58
<i>For Below Ground Installation, Add</i>	8.81	
<i>For Work In Restricted Working Space, Add</i>	52.87	
22 13 16 00-0379 EA 5" No Hub Cast Iron Sanitary Tee.....	265.58	122.79
<i>For Below Ground Installation, Add</i>	9.20	
<i>For Work In Restricted Working Space, Add</i>	55.22	
22 13 16 00-0380 EA 6" No Hub Cast Iron Sanitary Tee.....	313.51	145.77
<i>For Below Ground Installation, Add</i>	10.93	
<i>For Work In Restricted Working Space, Add</i>	65.58	
22 13 16 00-0381 EA 8" No Hub Cast Iron Sanitary Tee.....	571.52	196.36
<i>For Below Ground Installation, Add</i>	14.72	
<i>For Work In Restricted Working Space, Add</i>	88.29	
22 13 16 00-0382 No Hub Cast Iron Reducing Sanitary Tees <small>(22 13 16 00-0278)</small>		
22 13 16 00-0383 EA 2" x 1-1/2" No Hub Cast Iron Reducing Sanitary Tee.....	117.62	66.68
<i>For Below Ground Installation, Add</i>	5.00	
<i>For Work In Restricted Working Space, Add</i>	29.99	
22 13 16 00-0384 EA 3" x 1-1/2" No Hub Cast Iron Reducing Sanitary Tee.....	136.57	78.10
<i>For Below Ground Installation, Add</i>	5.85	
<i>For Work In Restricted Working Space, Add</i>	35.10	
22 13 16 00-0385 EA 3" x 2" No Hub Cast Iron Reducing Sanitary Tee.....	142.16	81.77
<i>For Below Ground Installation, Add</i>	6.13	
<i>For Work In Restricted Working Space, Add</i>	36.78	
22 13 16 00-0386 EA 3" x 4" No Hub Cast Iron Reducing Sanitary Tee.....	162.35	81.77
<i>For Below Ground Installation, Add</i>	6.13	
<i>For Work In Restricted Working Space, Add</i>	36.78	
22 13 16 00-0387 EA 4" x 2" No Hub Cast Iron Reducing Sanitary Tee.....	190.96	110.67
<i>For Below Ground Installation, Add</i>	8.29	
<i>For Work In Restricted Working Space, Add</i>	49.76	
22 13 16 00-0388 EA 4" x 3" No Hub Cast Iron Reducing Sanitary Tee.....	195.86	110.67
<i>For Below Ground Installation, Add</i>	8.29	
<i>For Work In Restricted Working Space, Add</i>	49.76	
22 13 16 00-0389 EA 5" x 2" No Hub Cast Iron Reducing Sanitary Tee.....	233.16	116.67
<i>For Below Ground Installation, Add</i>	8.74	
<i>For Work In Restricted Working Space, Add</i>	52.46	
22 13 16 00-0390 EA 5" x 3" No Hub Cast Iron Reducing Sanitary Tee.....	240.00	116.67
<i>For Below Ground Installation, Add</i>	8.74	
<i>For Work In Restricted Working Space, Add</i>	52.46	
22 13 16 00-0391 EA 5" x 4" No Hub Cast Iron Reducing Sanitary Tee.....	240.83	116.67
<i>For Below Ground Installation, Add</i>	8.74	
<i>For Work In Restricted Working Space, Add</i>	52.46	
22 13 16 00-0392 EA 6" x 4" No Hub Cast Iron Reducing Sanitary Tee.....	250.05	121.54
<i>For Below Ground Installation, Add</i>	9.11	
<i>For Work In Restricted Working Space, Add</i>	54.65	



Plumbing	22	22
Plumbing Piping	22 10	
Facility Sanitary Sewerage	22 13	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0393 EA 8" x 6" No Hub Cast Iron Reducing Sanitary Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	454.78 12.41 74.46	165.59
22 13 16 00-0394 No Hub Cast Iron Sanitary Tapped Tees (22 13 16 00-0278)		
22 13 16 00-0395 EA 2" x 1-1/2 Or 1-1/4" No Hub Cast Iron Sanitary Tapped Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	77.68 3.00 18.00	40.04
22 13 16 00-0396 EA 3" x 1-1/2 Or 1-1/4" No Hub Cast Iron Sanitary Tapped Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	90.01 3.44 20.63	45.81
22 13 16 00-0397 EA 4" x 1-1/2 Or 1-1/4" No Hub Cast Iron Sanitary Tapped Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	112.66 4.55 27.29	60.63
22 13 16 00-0398 No Hub Cast Iron Cleanout Tees (22 13 16 00-0278)		
22 13 16 00-0399 EA 2" No Hub Cast Iron Cleanout Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	74.60 3.00 18.00	40.04
22 13 16 00-0400 EA 3" No Hub Cast Iron Cleanout Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	92.25 3.44 20.63	45.81
22 13 16 00-0401 EA 4" No Hub Cast Iron Cleanout Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	132.22 4.55 27.29	60.63
22 13 16 00-0402 EA 6" No Hub Cast Iron Cleanout Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	214.77 6.71 40.28	89.53
22 13 16 00-0403 No Hub Cast Iron Two-Way Cleanout Tees (22 13 16 00-0278)		
22 13 16 00-0404 EA 4" No Hub Cast Iron Single Two-Way Cleanout Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	294.08 8.81 52.87	117.58
22 13 16 00-0405 EA 4" No Hub Cast Iron Double Two-Way Cleanout Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	377.30 13.39 80.36	178.62
22 13 16 00-0406 No Hub Cast Iron Cleanout Plugs (22 13 16 00-0278)		
22 13 16 00-0407 EA 2" No Hub Cast Iron Cleanout Plug <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	66.20 3.00 18.00	40.04
22 13 16 00-0408 EA 3" No Hub Cast Iron Cleanout Plug <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	78.53 3.44 20.63	45.81
22 13 16 00-0409 EA 4" No Hub Cast Iron Cleanout Plug <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	109.47 4.55 27.29	60.63
22 13 16 00-0410 EA 6" No Hub Cast Iron Cleanout Plug <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	168.85 6.71 40.28	89.53
22 13 16 00-0411 EA 8" No Hub Cast Iron Cleanout Plug <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	223.76 8.81 52.87	117.58
22 13 16 00-0412 No Hub Cast Iron Sanitary Crosses (22 13 16 00-0278)		
22 13 16 00-0413 EA 1-1/2" No Hub Cast Iron Sanitary Cross <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	139.76 5.92 35.54	78.95
22 13 16 00-0414 EA 2" No Hub Cast Iron Sanitary Cross <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	149.20 6.13 36.78	81.77
22 13 16 00-0415 EA 3" No Hub Cast Iron Sanitary Cross <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	176.16 6.71 40.28	89.53
22 13 16 00-0416 EA 4" No Hub Cast Iron Sanitary Cross <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	254.96 8.81 52.87	117.58
22 13 16 00-0417 No Hub Cast Iron Reducing Sanitary Crosses (22 13 16 00-0278)		
22 13 16 00-0418 EA 3" x 2" No Hub Cast Iron Sanitary Cross <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	195.15 7.87 47.24	105.03
22 13 16 00-0419 EA 4" x 2" No Hub Cast Iron Sanitary Cross <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	215.34 8.11 48.64	108.13

22 Plumbing**22 10 Plumbing Piping****22 13 Facility Sanitary Sewerage**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0420 EA 4" x 3" No Hub Cast Iron Sanitary Cross	233.44	112.93
For Below Ground Installation, Add	8.46	
For Work In Restricted Working Space, Add	50.76	
22 13 16 00-0421 No Hub Cast Iron Reducers (22 13 16 00-0278)		
22 13 16 00-0422 EA 3" x 2" No Hub Cast Iron Reducer	131.51	81.77
For Below Ground Installation, Add	6.13	
For Work In Restricted Working Space, Add	36.78	
22 13 16 00-0423 EA 4" x 2" No Hub Cast Iron Reducer	179.48	110.67
For Below Ground Installation, Add	8.29	
For Work In Restricted Working Space, Add	49.76	
22 13 16 00-0424 EA 4" x 3" No Hub Cast Iron Reducer	179.90	110.67
For Below Ground Installation, Add	8.29	
For Work In Restricted Working Space, Add	49.76	
22 13 16 00-0425 EA 5" x 2" No Hub Cast Iron Reducer	194.86	116.67
For Below Ground Installation, Add	8.74	
For Work In Restricted Working Space, Add	52.46	
22 13 16 00-0426 EA 5" x 3" No Hub Cast Iron Reducer	197.63	116.67
For Below Ground Installation, Add	8.74	
For Work In Restricted Working Space, Add	52.46	
22 13 16 00-0427 EA 5" x 4" No Hub Cast Iron Reducer	198.72	116.67
For Below Ground Installation, Add	8.74	
For Work In Restricted Working Space, Add	52.46	
22 13 16 00-0428 EA 6" x 3" No Hub Cast Iron Reducer	228.80	129.66
For Below Ground Installation, Add	9.72	
For Work In Restricted Working Space, Add	58.29	
22 13 16 00-0429 EA 6" x 4" No Hub Cast Iron Reducer	229.22	129.66
For Below Ground Installation, Add	9.72	
For Work In Restricted Working Space, Add	58.29	
22 13 16 00-0430 EA 6" x 5" No Hub Cast Iron Reducer	230.47	129.66
For Below Ground Installation, Add	9.72	
For Work In Restricted Working Space, Add	58.29	
22 13 16 00-0431 EA 8" x 2" No Hub Cast Iron Reducer	320.66	183.22
For Below Ground Installation, Add	13.73	
For Work In Restricted Working Space, Add	82.41	
22 13 16 00-0432 EA 8" x 3" No Hub Cast Iron Reducer	323.84	183.22
For Below Ground Installation, Add	13.73	
For Work In Restricted Working Space, Add	82.41	
22 13 16 00-0433 EA 8" x 4" No Hub Cast Iron Reducer	328.95	183.22
For Below Ground Installation, Add	13.73	
For Work In Restricted Working Space, Add	82.41	
22 13 16 00-0434 EA 8" x 5" No Hub Cast Iron Reducer	334.28	183.22
For Below Ground Installation, Add	13.73	
For Work In Restricted Working Space, Add	82.41	
22 13 16 00-0435 EA 8" x 6" No Hub Cast Iron Reducer	334.90	183.22
For Below Ground Installation, Add	13.73	
For Work In Restricted Working Space, Add	82.41	
22 13 16 00-0436 EA 10" x 4" No Hub Cast Iron Reducer	388.43	193.27
For Below Ground Installation, Add	14.49	
For Work In Restricted Working Space, Add	86.91	
22 13 16 00-0437 EA 10" x 6" No Hub Cast Iron Reducer	413.19	201.77
For Below Ground Installation, Add	15.13	
For Work In Restricted Working Space, Add	90.77	
22 13 16 00-0438 EA 10" x 8" No Hub Cast Iron Reducer	460.88	219.02
For Below Ground Installation, Add	16.42	
For Work In Restricted Working Space, Add	98.51	
22 13 16 00-0439 No Hub Cast Iron Blind Plugs (22 13 16 00-0278)		
22 13 16 00-0440 EA 1-1/2" No Hub Cast Iron Blind Plug.....	33.88	19.19
For Below Ground Installation, Add	1.44	
For Work In Restricted Working Space, Add	8.63	
22 13 16 00-0441 EA 2" No Hub Cast Iron Blind Plug.....	34.90	20.02
For Below Ground Installation, Add	1.50	
For Work In Restricted Working Space, Add	9.00	
22 13 16 00-0442 EA 3" No Hub Cast Iron Blind Plug.....	43.09	22.98
For Below Ground Installation, Add	1.72	
For Work In Restricted Working Space, Add	10.31	
22 13 16 00-0443 EA 4" No Hub Cast Iron Blind Plug.....	57.13	30.31
For Below Ground Installation, Add	2.27	
For Work In Restricted Working Space, Add	13.63	
22 13 16 00-0444 EA 5" No Hub Cast Iron Blind Plug.....	69.80	32.11
For Below Ground Installation, Add	2.40	
For Work In Restricted Working Space, Add	14.43	
22 13 16 00-0445 EA 6" No Hub Cast Iron Blind Plug.....	78.37	37.60
For Below Ground Installation, Add	2.82	
For Work In Restricted Working Space, Add	16.94	
22 13 16 00-0446 EA 8" No Hub Cast Iron Blind Plug.....	142.65	49.05
For Below Ground Installation, Add	3.68	
For Work In Restricted Working Space, Add	22.06	
22 13 16 00-0447 EA 10" No Hub Cast Iron Blind Plug.....	178.58	52.79
For Below Ground Installation, Add	3.96	
For Work In Restricted Working Space, Add	23.75	



	Plumbing	22
	Plumbing Piping	22 10
	Facility Sanitary Sewerage	22 13

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0448 No Hub Cast Iron P-Traps <small>(22 13 16 00-0278)</small>		
22 13 16 00-0449 EA 2" No Hub Cast Iron P-Trap.....	78.10	40.04
<i>For Below Ground Installation, Add</i>	3.00	
<i>For Work In Restricted Working Space, Add</i>	18.00	
22 13 16 00-0450 EA 3" No Hub Cast Iron P-Trap.....	110.04	45.81
<i>For Below Ground Installation, Add</i>	3.44	
<i>For Work In Restricted Working Space, Add</i>	20.63	
22 13 16 00-0451 EA 4" No Hub Cast Iron P-Trap.....	162.64	60.63
<i>For Below Ground Installation, Add</i>	4.55	
<i>For Work In Restricted Working Space, Add</i>	27.29	
22 13 16 00-0452 EA 5" No Hub Cast Iron P-Trap.....	259.31	63.58
<i>For Below Ground Installation, Add</i>	4.76	
<i>For Work In Restricted Working Space, Add</i>	28.58	
22 13 16 00-0453 EA 6" No Hub Cast Iron P-Trap.....	277.88	75.82
<i>For Below Ground Installation, Add</i>	5.68	
<i>For Work In Restricted Working Space, Add</i>	34.10	
22 13 16 00-0454 No Hub Cast Iron Deep Seal P-Traps <small>(22 13 16 00-0278)</small>		
22 13 16 00-0455 EA 2" No Hub Cast Iron Deep Seal P-Trap.....	119.40	50.89
<i>For Below Ground Installation, Add</i>	3.81	
<i>For Work In Restricted Working Space, Add</i>	22.86	
22 13 16 00-0456 EA 3" No Hub Cast Iron Deep Seal P-Trap.....	170.34	67.68
<i>For Below Ground Installation, Add</i>	5.07	
<i>For Work In Restricted Working Space, Add</i>	30.43	
22 13 16 00-0457 EA 4" No Hub Cast Iron Deep Seal P-Trap.....	244.54	89.39
<i>For Below Ground Installation, Add</i>	6.70	
<i>For Work In Restricted Working Space, Add</i>	40.18	
22 13 16 00-0458 No Hub Cast Iron Closet Flanges <small>(22 13 16 00-0278)</small>		
22 13 16 00-0459 EA 4" No Hub Cast Iron Closet Flange.....	119.65	60.63
<i>For Below Ground Installation, Add</i>	4.55	
<i>For Work In Restricted Working Space, Add</i>	27.29	
22 13 16 00-0460 EA 4" x 2-1/2" No Hub Cast Iron Offset Closet Flange.....	125.60	60.63
<i>For Below Ground Installation, Add</i>	4.55	
<i>For Work In Restricted Working Space, Add</i>	27.29	
22 13 16 00-0461 No Hub Cast Iron Closet Bends <small>(22 13 16 00-0278)</small>		
22 13 16 00-0462 EA 4" x 16" No Hub Cast Iron Closet Bend.....	203.29	60.63
<i>For Below Ground Installation, Add</i>	4.55	
<i>For Work In Restricted Working Space, Add</i>	27.29	
22 13 16 00-0463 No Hub Cast Iron Threaded Adapter <small>(22 13 16 00-0278)</small>		
22 13 16 00-0464 EA 1-1/4" No Hub Cast Iron Threaded Adapter.....	91.75	50.89
<i>For Below Ground Installation, Add</i>	3.81	
<i>For Work In Restricted Working Space, Add</i>	22.86	
22 13 16 00-0465 EA 1-1/2" No Hub Cast Iron Threaded Adapter.....	96.55	50.89
<i>For Below Ground Installation, Add</i>	3.81	
<i>For Work In Restricted Working Space, Add</i>	22.86	
22 13 16 00-0466 No Hub Couplings <small>(22 13 16 00-0278)</small>		
Note: Includes stainless steel shield/clamps assembly with elastomeric gasket, ASTM C 564. (Fernco NH). Labor costs are included in the installation costs for fittings.		
22 13 16 00-0467 EA 1-1/2" No Hub Coupling.....	8.54	
<i>For Medium Duty (Fernco MD-2000), Add</i>	1.11	
<i>For Heavy Duty (Fernco HD-4000), Add</i>	2.31	
22 13 16 00-0468 EA 2" No Hub Coupling.....	8.54	
<i>For Medium Duty (Fernco MD-2000), Add</i>	1.11	
<i>For Heavy Duty (Fernco HD-4000), Add</i>	2.31	
22 13 16 00-0469 EA 3" No Hub Coupling.....	10.14	
<i>For Medium Duty (Fernco MD-2000), Add</i>	1.32	
<i>For Heavy Duty (Fernco HD-4000), Add</i>	2.74	
22 13 16 00-0470 EA 4" No Hub Coupling.....	12.04	
<i>For Medium Duty (Fernco MD-2000), Add</i>	1.57	
<i>For Heavy Duty (Fernco HD-4000), Add</i>	3.25	
22 13 16 00-0471 EA 5" No Hub Coupling.....	27.83	
<i>For Medium Duty (Fernco MD-2000), Add</i>	3.62	
<i>For Heavy Duty (Fernco HD-4000), Add</i>	7.51	
22 13 16 00-0472 EA 6" No Hub Coupling.....	30.59	
<i>For Medium Duty (Fernco MD-2000), Add</i>	3.98	
<i>For Heavy Duty (Fernco HD-4000), Add</i>	8.26	
22 13 16 00-0473 EA 8" No Hub Coupling.....	57.62	
<i>For Medium Duty (Fernco MD-2000), Add</i>	7.49	
<i>For Heavy Duty (Fernco HD-4000), Add</i>	15.56	
22 13 16 00-0474 EA 10" No Hub Coupling.....	79.38	
<i>For Medium Duty (Fernco MD-2000), Add</i>	10.32	
<i>For Heavy Duty (Fernco HD-4000), Add</i>	21.43	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0475 EA 2" x 1-1/2" No Hub Reducing Coupling.....	10.14	
22 13 16 00-0476 EA 3" x 2" No Hub Reducing Coupling.....	15.72	
22 13 16 00-0477 EA 4" x 2" No Hub Reducing Coupling.....	21.94	
22 13 16 00-0478 EA 4" x 3" No Hub Reducing Coupling.....	18.69	
22 13 16 00-0479 Cast Iron Mechanical Joint Couplings With Neoprene Gasket And Bolts <small>(22 13 16 00-0278)</small>		
<i>Note: For underground connections. Labor costs are included in the installation costs for fittings. See CSI section 22 13 16 00-0870 for additional FERNCO couplings.</i>		
22 13 16 00-0480 EA 1-1/2" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts.....	34.37	
22 13 16 00-0481 EA 2" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts.....	35.48	
22 13 16 00-0482 EA 3" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts.....	37.25	
22 13 16 00-0483 EA 4" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts.....	43.46	
22 13 16 00-0484 EA 5" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts.....	82.05	
22 13 16 00-0485 EA 6" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts.....	112.65	
22 13 16 00-0486 EA 8" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts.....	197.36	
22 13 16 00-0487 EA 10" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts.....	301.58	
22 13 16 00-0488 Cut And Prepare Existing Pipe In-Place <small>(22 13 16 00-0268)</small>		
<i>Note: For use when connecting pipe to an existing in-place system.</i>		
22 13 16 00-0489 EA Cut And Prepare 1-1/2" Cast Iron Pipe, No Hub.....	13.78	
<i>For Work In Restricted Working Space, Add</i>	4.13	
22 13 16 00-0490 EA Cut And Prepare 2" Cast Iron Pipe, No Hub.....	16.85	
<i>For Work In Restricted Working Space, Add</i>	5.06	
22 13 16 00-0491 EA Cut And Prepare 3" Cast Iron Pipe, No Hub.....	18.38	
<i>For Work In Restricted Working Space, Add</i>	5.51	
22 13 16 00-0492 EA Cut And Prepare 4" Cast Iron Pipe, No Hub.....	22.97	
<i>For Work In Restricted Working Space, Add</i>	6.89	
22 13 16 00-0493 EA Cut And Prepare 6" Cast Iron Pipe, No Hub.....	27.56	
<i>For Work In Restricted Working Space, Add</i>	8.27	
22 13 16 00-0494 EA Cut And Prepare 8" Cast Iron Pipe, No Hub.....	36.75	
<i>For Work In Restricted Working Space, Add</i>	11.03	
22 13 16 00-0495 EA Cut And Prepare 10" Cast Iron Pipe, No Hub.....	42.88	
<i>For Work In Restricted Working Space, Add</i>	12.86	
22 13 16 00-0496 Copper Drain-Waste-Vent (DWV) Pipe <small>(22 13 16)</small>		
<i>See CSI section 22 11 16 00-0436 for copper and brass fittings.</i>		
22 13 16 00-0497 LF 1-1/4" Hard Drawn DWV Copper Tube/Pipe.....	20.72	6.63
22 13 16 00-0498 LF 1-1/2" Hard Drawn DWV Copper Tube/Pipe.....	24.63	7.40
22 13 16 00-0499 LF 2" Hard Drawn DWV Copper Tube/Pipe.....	31.63	9.13
22 13 16 00-0500 LF 3" Hard Drawn DWV Copper Tube/Pipe.....	69.20	12.65
22 13 16 00-0501 LF 4" Hard Drawn DWV Copper Tube/Pipe.....	95.37	14.27
22 13 16 00-0502 LF 5" Hard Drawn DWV Copper Tube/Pipe.....	182.97	16.38
22 13 16 00-0503 LF 6" Hard Drawn DWV Copper Tube/Pipe.....	261.74	25.39
22 13 16 00-0504 Polyvinyl Chloride (PVC) Drain-Waste-Vent (DWV) Pipe And Fittings <small>(22 13 16)</small>		
<i>Note: Aboveground installation.</i>		
22 13 16 00-0505 Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assemblies <small>(22 13 16 00-0504)</small>		
22 13 16 00-0506 Underground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assemblies <small>(22 13 16 00-0505)</small>		
<i>Note: Includes all fittings. Fittings are assumed every 20'. Excludes excavation, backfill and compaction. Not for use where detail is available. Not for use where detail is available.</i>		
22 13 16 00-0507 LF 1-1/2" Underground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly.....	15.73	
<i>Note: Includes all fittings and couplings. Fittings are assumed every 20'. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.</i>		
<i>For Work In Restricted Working Space, Add</i>	3.30	
22 13 16 00-0508 LF 2" Underground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly.....	19.07	
<i>Note: Includes all fittings and couplings. Fittings are assumed every 20'. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.</i>		
<i>For Work In Restricted Working Space, Add</i>	4.02	
22 13 16 00-0509 LF 3" Underground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly.....	30.88	
<i>Note: Includes all fittings and couplings. Fittings are assumed every 20'. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.</i>		
<i>For Work In Restricted Working Space, Add</i>	5.69	
22 13 16 00-0510 LF 4" Underground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly.....	38.97	
<i>Note: Includes all fittings and couplings. Fittings are assumed every 20'. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.</i>		
<i>For Work In Restricted Working Space, Add</i>	6.26	
22 13 16 00-0511 LF 6" Underground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly.....	66.48	
<i>Note: Includes all fittings and couplings. Fittings are assumed every 20'. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.</i>		
<i>For Work In Restricted Working Space, Add</i>	8.06	
22 13 16 00-0512 LF 8" Underground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly.....	94.95	
<i>Note: Includes all fittings and couplings. Fittings are assumed every 20'. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.</i>		
<i>For Work In Restricted Working Space, Add</i>	10.77	



	Plumbing	22
	Plumbing Piping	22 10
	Facility Sanitary Sewerage	22 13

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0513 LF 10" Underground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly..... Note: Includes all fittings and couplings. Fittings are assumed every 20'. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	137.20 14.36	
22 13 16 00-0514 Aboveground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assemblies <small>(22 13 16 00-0505)</small> Note: Includes all hangers and couplings, elbow, tee and reducer fittings. All hangers are complete assemblies installed in accordance with uniform plumbing code. Not for use where detail is available.		
22 13 16 00-0515 LF 1-1/2" Aboveground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly..... Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	31.69 6.79	5.92
22 13 16 00-0516 LF 2" Aboveground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly..... Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	35.62 7.55	7.05
22 13 16 00-0517 LF 3" Aboveground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly..... Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	49.99 9.38	10.15
22 13 16 00-0518 LF 4" Aboveground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly..... Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	61.41 10.24	11.00
22 13 16 00-0519 LF 6" Aboveground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly..... Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	93.06 13.12	14.10
22 13 16 00-0520 LF 8" Aboveground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly..... Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	121.64 15.03	18.75
22 13 16 00-0521 LF 10" Aboveground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly..... Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	170.06 19.59	25.10
22 13 16 00-0522 Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe <small>(22 13 16 00-0504)</small> Note: Excludes fittings or hangers.		
22 13 16 00-0523 Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe (ASTM D-2665) <small>(22 13 16 00-0522)</small> Note: Excludes fittings or hangers.		
22 13 16 00-0524 LF 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe..... <i>For Work In Restricted Working Space, Add</i>	12.42 2.64	5.92
22 13 16 00-0525 LF 2" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe..... <i>For Work In Restricted Working Space, Add</i>	15.29 3.17	7.05
22 13 16 00-0526 LF 3" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe..... <i>For Work In Restricted Working Space, Add</i>	24.64 4.55	10.15
22 13 16 00-0527 LF 4" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe..... <i>For Work In Restricted Working Space, Add</i>	29.83 4.94	11.00
22 13 16 00-0528 LF 6" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe..... <i>For Work In Restricted Working Space, Add</i>	42.56 5.61	12.49
22 13 16 00-0529 LF 8" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe..... <i>For Work In Restricted Working Space, Add</i>	61.16 7.49	16.61
22 13 16 00-0530 LF 10" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe..... <i>For Work In Restricted Working Space, Add</i>	88.74 9.99	22.23
22 13 16 00-0531 Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe (ASTM F-891) <small>(22 13 16 00-0522)</small> Note: Excludes fittings or hangers.		
22 13 16 00-0532 LF 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe..... <i>For Work In Restricted Working Space, Add</i>	11.34 2.64	5.92
22 13 16 00-0533 LF 2" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe..... <i>For Work In Restricted Working Space, Add</i>	14.01 3.17	7.05
22 13 16 00-0534 LF 3" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe..... <i>For Work In Restricted Working Space, Add</i>	22.22 4.55	10.15
22 13 16 00-0535 LF 4" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe..... <i>For Work In Restricted Working Space, Add</i>	26.62 4.94	11.00
22 13 16 00-0536 LF 6" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe..... <i>For Work In Restricted Working Space, Add</i>	36.58 5.61	12.49
22 13 16 00-0537 LF 8" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe..... <i>For Work In Restricted Working Space, Add</i>	52.76 7.49	16.61
22 13 16 00-0538 LF 10" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe..... <i>For Work In Restricted Working Space, Add</i>	79.60 9.99	22.23
22 13 16 00-0539 Polyvinyl Chloride (PVC) DWV Fittings (ASTM D-2665) <small>(22 13 16 00-0504)</small>		
22 13 16 00-0540 Polyvinyl Chloride (PVC) DWV 1/4 Bends <small>(22 13 16 00-0539)</small>		
22 13 16 00-0541 EA 1-1/2" Polyvinyl Chloride (PVC) DWV 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	41.45 10.58	23.54



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0542 EA 2" Polyvinyl Chloride (PVC) DWV 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	52.98 13.53	30.03
22 13 16 00-0543 EA 3" Polyvinyl Chloride (PVC) DWV 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	85.08 18.19	40.32
22 13 16 00-0544 EA 4" Polyvinyl Chloride (PVC) DWV 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	122.37 21.15	46.95
22 13 16 00-0545 EA 6" Polyvinyl Chloride (PVC) DWV 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	407.32 27.49	61.05
22 13 16 00-0546 EA 8" Polyvinyl Chloride (PVC) DWV 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	664.10 37.01	82.20
22 13 16 00-0547 EA 10" Polyvinyl Chloride (PVC) DWV 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	877.40 49.34	109.54
22 13 16 00-0548 Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends (22 13 16 00-0539)		
22 13 16 00-0549 EA 1-1/2" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	58.86 10.58	23.54
22 13 16 00-0550 EA 2" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	63.00 13.53	30.03
22 13 16 00-0551 EA 3" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	110.84 18.19	40.32
22 13 16 00-0552 EA 4" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	169.60 21.15	46.95
22 13 16 00-0553 EA 6" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	316.10 27.49	61.05
22 13 16 00-0554 EA 8" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	544.21 37.01	82.20
22 13 16 00-0555 EA 10" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	875.25 49.34	109.54
22 13 16 00-0556 Polyvinyl Chloride (PVC) DWV 1/8 Bends (22 13 16 00-0539)		
22 13 16 00-0557 EA 1-1/2" Polyvinyl Chloride (PVC) DWV 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	42.88 10.58	23.54
22 13 16 00-0558 EA 2" Polyvinyl Chloride (PVC) DWV 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	52.86 13.53	30.03
22 13 16 00-0559 EA 3" Polyvinyl Chloride (PVC) DWV 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	82.93 18.19	40.32
22 13 16 00-0560 EA 4" Polyvinyl Chloride (PVC) DWV 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	111.87 21.15	46.95
22 13 16 00-0561 EA 6" Polyvinyl Chloride (PVC) DWV 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	380.61 27.49	61.05
22 13 16 00-0562 EA 8" Polyvinyl Chloride (PVC) DWV 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	602.00 37.01	82.20
22 13 16 00-0563 EA 10" Polyvinyl Chloride (PVC) DWV 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	694.75 49.34	109.54
22 13 16 00-0564 Polyvinyl Chloride (PVC) DWV Sanitary Tees (22 13 16 00-0539)		
22 13 16 00-0565 EA 1-1/2" Polyvinyl Chloride (PVC) DWV Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	63.95 15.86	35.25
22 13 16 00-0566 EA 2" Polyvinyl Chloride (PVC) DWV Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	83.54 20.30	45.11
22 13 16 00-0567 EA 3" Polyvinyl Chloride (PVC) DWV Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	133.15 27.28	60.63
22 13 16 00-0568 EA 4" Polyvinyl Chloride (PVC) DWV Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	186.24 31.72	70.49
22 13 16 00-0569 EA 6" Polyvinyl Chloride (PVC) DWV Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	605.70 41.24	91.50
22 13 16 00-0570 EA 8" Polyvinyl Chloride (PVC) DWV Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	790.37 55.51	123.21
22 13 16 00-0571 Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees (22 13 16 00-0539)		
22 13 16 00-0572 EA 2" x 1-1/2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	77.84 17.34	38.48
22 13 16 00-0573 EA 2" x 1-1/2" x 2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	90.41 18.82	41.73
22 13 16 00-0574 EA 2" x 2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	78.60 18.82	41.73
22 13 16 00-0575 EA 3" x 3" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	110.56 23.47	52.16
22 13 16 00-0576 EA 3" x 3" x 2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	113.95 24.95	55.41
22 13 16 00-0577 EA 4" x 4" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	131.52 26.43	58.65
22 13 16 00-0578 EA 4" x 4" x 2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	202.17 27.92	62.03
22 13 16 00-0579 EA 4" x 4" x 3" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	249.16 30.24	67.10
22 13 16 00-0580 EA 6" x 6" x 4" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	579.71 38.06	84.45



	Plumbing	22
	Plumbing Piping	22 10
	Facility Sanitary Sewerage	22 13

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0581	EA		8" x 8" x 4" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	1,734.88 47.58	105.60
22 13 16 00-0582	EA		8" x 8" x 6" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	1,796.28 50.75	112.64
22 13 16 00-0583			Polyvinyl Chloride (PVC) DWV Double Sanitary Tees (22 13 16 00-0539)		
22 13 16 00-0584	EA		1-1/2" Polyvinyl Chloride (PVC) DWV Double Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	103.88 21.15	46.95
22 13 16 00-0585	EA		2" Polyvinyl Chloride (PVC) DWV Double Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	139.13 27.07	60.05
22 13 16 00-0586	EA		3" Polyvinyl Chloride (PVC) DWV Double Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	258.39 36.37	80.78
22 13 16 00-0587	EA		4" Polyvinyl Chloride (PVC) DWV Double Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	361.49 42.29	93.89
22 13 16 00-0588			Polyvinyl Chloride (PVC) DWV Reducing Double Sanitary Tees (22 13 16 00-0539)		
22 13 16 00-0589	EA		2" x 2" x 1-1/2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Double Sanitary Tee <i>For Work In Restricted Working Space, Add</i>	124.56 24.11	53.58
22 13 16 00-0590	EA		3" x 3" x 1-1/2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Double Sanitary Tee <i>For Work In Restricted Working Space, Add</i>	199.68 28.76	63.86
22 13 16 00-0591	EA		3" x 3" x 2" x 2" Polyvinyl Chloride (PVC) DWV Double Sanitary Tee <i>For Work In Restricted Working Space, Add</i>	228.75 31.72	70.49
22 13 16 00-0592	EA		4" x 4" x 2" x 2" Polyvinyl Chloride (PVC) DWV Double Sanitary Tee <i>For Work In Restricted Working Space, Add</i>	386.49 34.68	76.98
22 13 16 00-0593	EA		4" x 4" x 3" x 3" Polyvinyl Chloride (PVC) DWV Double Sanitary Tee <i>For Work In Restricted Working Space, Add</i>	409.45 39.34	87.26
22 13 16 00-0594			Polyvinyl Chloride (PVC) DWV Reducers (22 13 16 00-0539)		
22 13 16 00-0595	EA		2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducers <i>For Work In Restricted Working Space, Add</i>	52.58 12.05	26.79
22 13 16 00-0596	EA		3" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducers <i>For Work In Restricted Working Space, Add</i>	87.54 14.38	31.86
22 13 16 00-0597	EA		3" x 2" Polyvinyl Chloride (PVC) DWV Reducers..... <i>For Work In Restricted Working Space, Add</i>	86.01 15.86	35.25
22 13 16 00-0598	EA		4" x 2" Polyvinyl Chloride (PVC) DWV Reducers..... <i>For Work In Restricted Working Space, Add</i>	123.39 17.34	38.48
22 13 16 00-0599	EA		4" x 3" Polyvinyl Chloride (PVC) DWV Reducers..... <i>For Work In Restricted Working Space, Add</i>	134.13 19.67	43.70
22 13 16 00-0600	EA		6" x 3" Polyvinyl Chloride (PVC) DWV Reducers..... <i>For Work In Restricted Working Space, Add</i>	422.58 22.84	50.75
22 13 16 00-0601	EA		6" x 4" Polyvinyl Chloride (PVC) DWV Reducers..... <i>For Work In Restricted Working Space, Add</i>	359.30 24.32	54.00
22 13 16 00-0602	EA		8" x 4" Polyvinyl Chloride (PVC) DWV Reducers..... <i>For Work In Restricted Working Space, Add</i>	860.40 29.08	64.57
22 13 16 00-0603	EA		8" x 6" Polyvinyl Chloride (PVC) DWV Reducers..... <i>For Work In Restricted Working Space, Add</i>	735.66 32.25	71.62
22 13 16 00-0604	EA		10" x 6" Polyvinyl Chloride (PVC) DWV Reducers..... <i>For Work In Restricted Working Space, Add</i>	983.03 38.42	85.29
22 13 16 00-0605	EA		10" x 8" Polyvinyl Chloride (PVC) DWV Reducers..... <i>For Work In Restricted Working Space, Add</i>	785.33 43.18	95.87
22 13 16 00-0606			Polyvinyl Chloride (PVC) DWV P-Traps (22 13 16 00-0539)		
22 13 16 00-0607	EA		1-1/2" Polyvinyl Chloride (PVC) DWV P-Traps <i>For Work In Restricted Working Space, Add</i>	74.57 15.86	35.25
22 13 16 00-0608	EA		2" Polyvinyl Chloride (PVC) DWV P-Traps <i>For Work In Restricted Working Space, Add</i>	97.26 20.30	45.11
22 13 16 00-0609	EA		3" Polyvinyl Chloride (PVC) DWV P-Traps <i>For Work In Restricted Working Space, Add</i>	238.22 27.28	60.63
22 13 16 00-0610	EA		4" Polyvinyl Chloride (PVC) DWV P-Traps <i>For Work In Restricted Working Space, Add</i>	456.49 31.72	70.49
22 13 16 00-0611	EA		6" Polyvinyl Chloride (PVC) DWV P-Traps <i>For Work In Restricted Working Space, Add</i>	757.61 41.24	91.50
22 13 16 00-0612			Polyvinyl Chloride (PVC) DWV Closet Flanges (22 13 16 00-0539)		
22 13 16 00-0613	EA		4" Polyvinyl Chloride (PVC) DWV Closet Flanges <i>For Work In Restricted Working Space, Add</i>	112.11 21.15	46.95
22 13 16 00-0614	EA		4" x 3" Polyvinyl Chloride (PVC) DWV Closet Flanges <i>For Work In Restricted Working Space, Add</i>	94.65 19.67	43.70
22 13 16 00-0615			Polyvinyl Chloride (PVC) DWV Wyes (22 13 16 00-0539)		
22 13 16 00-0616	EA		1-1/2" Polyvinyl Chloride (PVC) DWV Wyes..... <i>For Work In Restricted Working Space, Add</i>	75.04 15.86	35.25
22 13 16 00-0617	EA		2" Polyvinyl Chloride (PVC) DWV Wyes <i>For Work In Restricted Working Space, Add</i>	89.98 20.30	45.11
22 13 16 00-0618	EA		3" Polyvinyl Chloride (PVC) DWV Wyes <i>For Work In Restricted Working Space, Add</i>	141.38 27.28	60.63



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0619 EA 4" Polyvinyl Chloride (PVC) DWV Wyes <i>For Work In Restricted Working Space, Add</i>	199.72 31.72	70.49
22 13 16 00-0620 EA 6" Polyvinyl Chloride (PVC) DWV Wyes <i>For Work In Restricted Working Space, Add</i>	555.13 41.24	91.50
22 13 16 00-0621 EA 8" Polyvinyl Chloride (PVC) DWV Wyes <i>For Work In Restricted Working Space, Add</i>	694.31 55.51	123.21
22 13 16 00-0622 EA 10" Polyvinyl Chloride (PVC) DWV Wyes <i>For Work In Restricted Working Space, Add</i>	914.96 74.01	164.24
22 13 16 00-0623 Polyvinyl Chloride (PVC) DWV Reducing Wyes (22 13 16 00-0539)		
22 13 16 00-0624 EA 2" x 1-1/2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	97.40 17.34	38.48
22 13 16 00-0625 EA 2" x 2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	101.98 18.82	41.73
22 13 16 00-0626 EA 3" x 3" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	139.88 23.47	52.16
22 13 16 00-0627 EA 3" x 3" x 2" Polyvinyl Chloride (PVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	122.18 24.95	55.41
22 13 16 00-0628 EA 4" x 4" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	185.98 26.43	58.65
22 13 16 00-0629 EA 4" x 4" x 2" Polyvinyl Chloride (PVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	168.54 27.92	62.03
22 13 16 00-0630 EA 4" x 4" x 3" Polyvinyl Chloride (PVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	188.93 30.24	67.10
22 13 16 00-0631 EA 6" x 6" x 3" Polyvinyl Chloride (PVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	500.85 36.59	81.20
22 13 16 00-0632 EA 6" x 6" x 4" Polyvinyl Chloride (PVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	611.48 38.06	84.45
22 13 16 00-0633 EA 8" x 8" x 4" Polyvinyl Chloride (PVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	595.08 47.58	105.60
22 13 16 00-0634 EA 8" x 8" x 6" Polyvinyl Chloride (PVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	740.29 50.75	112.64
22 13 16 00-0635 EA 10" x 10" x 4" Polyvinyl Chloride (PVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	691.49 59.92	132.95
22 13 16 00-0636 EA 10" x 10" x 6" Polyvinyl Chloride (PVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	848.32 63.09	140.00
22 13 16 00-0637 EA 10" x 10" x 8" Polyvinyl Chloride (PVC) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	980.96 67.84	150.56
22 13 16 00-0638 Polyvinyl Chloride (PVC) DWV Double Wyes (22 13 16 00-0539)		
22 13 16 00-0639 EA 1-1/2" Polyvinyl Chloride (PVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	117.72 21.15	46.95
22 13 16 00-0640 EA 2" Polyvinyl Chloride (PVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	150.93 27.07	60.05
22 13 16 00-0641 EA 3" Polyvinyl Chloride (PVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	278.07 36.37	80.78
22 13 16 00-0642 EA 4" Polyvinyl Chloride (PVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	458.93 42.29	93.89
22 13 16 00-0643 EA 6" Polyvinyl Chloride (PVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	903.36 54.98	122.09
22 13 16 00-0644 EA 8" Polyvinyl Chloride (PVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	1,059.39 74.02	164.38
22 13 16 00-0645 EA 10" Polyvinyl Chloride (PVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	1,623.91 98.68	219.08
22 13 16 00-0646 Polyvinyl Chloride (PVC) DWV Reducing Double Wyes (22 13 16 00-0539)		
22 13 16 00-0647 EA 2" x 2" x 1-1/2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	135.82 24.11	53.58
22 13 16 00-0648 EA 3" x 3" x 1-1/2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	233.48 28.76	63.86
22 13 16 00-0649 EA 3" x 3" x 2" x 2" Polyvinyl Chloride (PVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	222.50 31.72	70.49
22 13 16 00-0650 EA 4" x 4" x 2" x 2" Polyvinyl Chloride (PVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	306.20 34.68	76.98
22 13 16 00-0651 EA 4" x 4" x 3" x 3" Polyvinyl Chloride (PVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	382.88 39.34	87.26
22 13 16 00-0652 EA 6" x 6" x 4" x 4" Polyvinyl Chloride (PVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	575.63 48.64	107.99
22 13 16 00-0653 EA 8" x 8" x 4" x 4" Polyvinyl Chloride (PVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	675.33 58.15	129.14
22 13 16 00-0654 EA 8" x 8" x 6" x 6" Polyvinyl Chloride (PVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	848.01 64.50	143.23
22 13 16 00-0655 EA 10" x 10" x 4" x 4" Polyvinyl Chloride (PVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	898.80 70.49	156.49
22 13 16 00-0656 EA 10" x 10" x 6" x 6" Polyvinyl Chloride (PVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	1,149.21 76.83	170.59
22 13 16 00-0657 EA 10" x 10" x 8" x 8" Polyvinyl Chloride (PVC) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	1,381.80 86.35	191.73



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0658			Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends (22 13 16 00-0539)		
22 13 16 00-0659	EA		1-1/2" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends 88.88	88.88	35.25
			<i>For Work In Restricted Working Space, Add</i>	15.86	
22 13 16 00-0660	EA		2" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends 111.57	111.57	45.11
			<i>For Work In Restricted Working Space, Add</i>	20.30	
22 13 16 00-0661	EA		3" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends 206.25	206.25	60.63
			<i>For Work In Restricted Working Space, Add</i>	27.28	
22 13 16 00-0662	EA		4" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends 345.22	345.22	70.49
			<i>For Work In Restricted Working Space, Add</i>	31.72	
22 13 16 00-0663			Polyvinyl Chloride (PVC) DWV Reducing Combination Wye And 1/8 Bends (22 13 16 00-0539)		
22 13 16 00-0664	EA		2" x 2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends 153.62	153.62	41.73
			<i>For Work In Restricted Working Space, Add</i>	18.82	
22 13 16 00-0665	EA		3" x 3" x 1-1/2" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends 236.12	236.12	52.16
			<i>For Work In Restricted Working Space, Add</i>	23.47	
22 13 16 00-0666	EA		3" x 3" x 2" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends 181.86	181.86	55.41
			<i>For Work In Restricted Working Space, Add</i>	24.95	
22 13 16 00-0667	EA		4" x 4" x 2" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends 312.57	312.57	62.03
			<i>For Work In Restricted Working Space, Add</i>	27.92	
22 13 16 00-0668	EA		4" x 4" x 3" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends 338.57	338.57	67.10
			<i>For Work In Restricted Working Space, Add</i>	30.24	
22 13 16 00-0669			Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends (22 13 16 00-0539)		
22 13 16 00-0670	EA		1-1/2" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends 128.45	128.45	46.95
			<i>For Work In Restricted Working Space, Add</i>	21.15	
22 13 16 00-0671	EA		2" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends 152.13	152.13	60.05
			<i>For Work In Restricted Working Space, Add</i>	27.07	
22 13 16 00-0672	EA		3" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends 228.81	228.81	80.78
			<i>For Work In Restricted Working Space, Add</i>	36.37	
22 13 16 00-0673	EA		4" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends 707.71	707.71	93.89
			<i>For Work In Restricted Working Space, Add</i>	42.29	
22 13 16 00-0674	EA		6" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends 2,240.81	2,240.81	122.09
			<i>For Work In Restricted Working Space, Add</i>	54.98	
22 13 16 00-0675			Polyvinyl Chloride (PVC) DWV Reducing Double Combination Wye And 1/8 Bends (22 13 16 00-0539)		
22 13 16 00-0676	EA		2" x 2" x 1-1/2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends 270.01	270.01	53.58
			<i>For Work In Restricted Working Space, Add</i>	24.11	
22 13 16 00-0677	EA		3" x 3" x 2" x 2" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends 427.05	427.05	70.49
			<i>For Work In Restricted Working Space, Add</i>	31.72	
22 13 16 00-0678	EA		4" x 4" x 2" x 2" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends 714.43	714.43	76.98
			<i>For Work In Restricted Working Space, Add</i>	34.68	
22 13 16 00-0679	EA		4" x 4" x 3" x 3" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends 655.19	655.19	87.26
			<i>For Work In Restricted Working Space, Add</i>	39.34	
22 13 16 00-0680	EA		6" x 6" x 4" x 4" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends 1,506.31	1,506.31	107.99
			<i>For Work In Restricted Working Space, Add</i>	48.64	
22 13 16 00-0681			Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug (22 13 16 00-0539)		
22 13 16 00-0682	EA		2" Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug 173.25	173.25	45.11
			<i>For Work In Restricted Working Space, Add</i>	20.30	
22 13 16 00-0683	EA		3" Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug 292.61	292.61	60.63
			<i>For Work In Restricted Working Space, Add</i>	27.28	
22 13 16 00-0684	EA		4" Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug 456.55	456.55	70.49
			<i>For Work In Restricted Working Space, Add</i>	31.72	
22 13 16 00-0685	EA		6" Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug 1,156.80	1,156.80	91.50
			<i>For Work In Restricted Working Space, Add</i>	41.24	
22 13 16 00-0686	EA		8" Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug 1,454.20	1,454.20	123.21
			<i>For Work In Restricted Working Space, Add</i>	55.51	
22 13 16 00-0687	EA		10" Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug 1,930.13	1,930.13	164.24
			<i>For Work In Restricted Working Space, Add</i>	74.01	
22 13 16 00-0688			Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug (22 13 16 00-0539)		
22 13 16 00-0689	EA		1-1/2" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug 53.50	53.50	23.54
			<i>For Work In Restricted Working Space, Add</i>	10.58	
22 13 16 00-0690	EA		2" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug 74.57	74.57	30.03
			<i>For Work In Restricted Working Space, Add</i>	13.53	
22 13 16 00-0691	EA		3" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug 105.95	105.95	40.32
			<i>For Work In Restricted Working Space, Add</i>	18.19	
22 13 16 00-0692	EA		4" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug 176.99	176.99	46.95
			<i>For Work In Restricted Working Space, Add</i>	21.15	
22 13 16 00-0693	EA		6" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug 383.95	383.95	61.05
			<i>For Work In Restricted Working Space, Add</i>	27.49	
22 13 16 00-0694	EA		8" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug 836.13	836.13	82.20
			<i>For Work In Restricted Working Space, Add</i>	37.01	
22 13 16 00-0695	EA		10" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug 1,520.32	1,520.32	109.54
			<i>For Work In Restricted Working Space, Add</i>	49.31	



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

22 13 16 00-0696	Polyvinyl Chloride (PVC) Couplings <small>(22 13 16 00-0539)</small>		
22 13 16 00-0697	EA 1-1/2" Polyvinyl Chloride (PVC) Couplings <i>For Work In Restricted Working Space, Add</i>	40.66 10.58	23.54
22 13 16 00-0698	EA 2" Polyvinyl Chloride (PVC) Couplings <i>For Work In Restricted Working Space, Add</i>	51.19 13.53	30.03
22 13 16 00-0699	EA 3" Polyvinyl Chloride (PVC) Couplings <i>For Work In Restricted Working Space, Add</i>	76.18 18.19	40.32
22 13 16 00-0700	EA 4" Polyvinyl Chloride (PVC) Couplings <i>For Work In Restricted Working Space, Add</i>	96.04 21.15	46.95
22 13 16 00-0701	EA 6" Polyvinyl Chloride (PVC) Couplings <i>For Work In Restricted Working Space, Add</i>	232.63 27.49	61.05
22 13 16 00-0702	EA 8" Polyvinyl Chloride (PVC) Couplings <i>For Work In Restricted Working Space, Add</i>	530.63 37.01	82.20
22 13 16 00-0703	EA 10" Polyvinyl Chloride (PVC) Couplings <i>For Work In Restricted Working Space, Add</i>	795.61 49.34	109.54
22 13 16 00-0704	Polyvinyl Chloride (PVC) Male Adapters <small>(22 13 16 00-0539)</small>		
22 13 16 00-0705	EA 1-1/2" Polyvinyl Chloride (PVC) Male Adapters <i>For Work In Restricted Working Space, Add</i>	23.09 5.29	11.70
22 13 16 00-0706	EA 2" Polyvinyl Chloride (PVC) Male Adapters <i>For Work In Restricted Working Space, Add</i>	36.02 6.77	15.08
22 13 16 00-0707	EA 3" Polyvinyl Chloride (PVC) Male Adapters <i>For Work In Restricted Working Space, Add</i>	67.65 9.09	20.16
22 13 16 00-0708	EA 4" Polyvinyl Chloride (PVC) Male Adapters <i>For Work In Restricted Working Space, Add</i>	120.82 10.58	23.54
22 13 16 00-0709	Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe <small>(22 13 16 00-0504)</small>		
	Note: In place piping.		
22 13 16 00-0710	EA 1-1/2", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe.....	10.33	
22 13 16 00-0711	EA 2", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe.....	11.37	
22 13 16 00-0712	EA 3", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe.....	14.48	
22 13 16 00-0713	EA 4", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe.....	19.52	
22 13 16 00-0714	EA 6", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe.....	27.90	
22 13 16 00-0715	EA 8", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe.....	37.21	
22 13 16 00-0716	EA 10", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe.....	45.49	
22 13 16 00-0717	Acrylonitrile Butadiene Styrene (ABS) Drain-Waste-Vent (DWV) Pipe And Fittings <small>(22 13 16)</small>		
	Note: Aboveground installation.		
22 13 16 00-0718	Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV Pipe Assemblies <small>(22 13 16 00-0717)</small>		
	Note: Includes all hangers and couplings, elbow, tee and reducer fittings. All hangers are complete assemblies installed in accordance with uniform plumbing code. Not for use where detail is available.		
22 13 16 00-0719	LF 1-1/2" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV Pipe Assembly <i>For Work In Restricted Working Space, Add</i>	34.60 8.11	5.92
22 13 16 00-0720	LF 2" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV Pipe Assembly <i>For Work In Restricted Working Space, Add</i>	38.45 8.98	7.05
22 13 16 00-0721	LF 3" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV Pipe Assembly <i>For Work In Restricted Working Space, Add</i>	52.62 11.16	10.15
22 13 16 00-0722	LF 4" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV Pipe Assembly <i>For Work In Restricted Working Space, Add</i>	60.65 12.39	11.00
22 13 16 00-0723	LF 6" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV Pipe Assembly <i>For Work In Restricted Working Space, Add</i>	101.57 16.48	14.10
22 13 16 00-0724	Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV "Foam-Core" Pipe (ASTM F-628) <small>(22 13 16 00-0717)</small>		
	Note: Excludes fittings or hangers.		
22 13 16 00-0725	LF 1-1/2" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV "Foam-Core" Pipe <i>For Work In Restricted Working Space, Add</i>	12.00 2.64	5.92
22 13 16 00-0726	LF 2" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV "Foam-Core" Pipe <i>For Work In Restricted Working Space, Add</i>	14.85 3.17	7.05
22 13 16 00-0727	LF 3" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV "Foam-Core" Pipe <i>For Work In Restricted Working Space, Add</i>	24.02 4.55	10.15
22 13 16 00-0728	LF 4" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV "Foam-Core" Pipe <i>For Work In Restricted Working Space, Add</i>	29.11 4.94	11.00



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0729 LF 6" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV "Foam-Core" Pipe <i>For Work In Restricted Working Space, Add</i>	44.52 5.61	12.49
22 13 16 00-0730 Acrylonitrile Butadiene Styrene (ABS) DWV Fittings (ASTM D-2661) (22 13 16 00-0717)		
22 13 16 00-0731 Acrylonitrile Butadiene Styrene (ABS) DWV 1/4 Bends (22 13 16 00-0730)		
22 13 16 00-0732 EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	48.82 10.58	23.54
22 13 16 00-0733 EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	64.46 13.53	30.03
22 13 16 00-0734 EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	120.33 18.19	40.32
22 13 16 00-0735 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	187.47 21.15	46.95
22 13 16 00-0736 EA 6" Acrylonitrile Butadiene Styrene (ABS) DWV 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	528.26 27.49	61.05
22 13 16 00-0737 Acrylonitrile Butadiene Styrene (ABS) DWV Long Sweep 1/4 Bends (22 13 16 00-0730)		
22 13 16 00-0738 EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Long Sweep 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	67.57 10.58	23.54
22 13 16 00-0739 EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV Long Sweep 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	82.79 13.53	30.03
22 13 16 00-0740 EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV Long Sweep 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	165.85 18.19	40.32
22 13 16 00-0741 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV Long Sweep 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	278.03 21.15	46.95
22 13 16 00-0742 Acrylonitrile Butadiene Styrene (ABS) DWV 1/8 Bends (22 13 16 00-0730)		
22 13 16 00-0743 EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	51.35 10.58	23.54
22 13 16 00-0744 EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	62.68 13.53	30.03
22 13 16 00-0745 EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	111.00 18.19	40.32
22 13 16 00-0746 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	170.24 21.15	46.95
22 13 16 00-0747 EA 6" Acrylonitrile Butadiene Styrene (ABS) DWV 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	546.43 27.49	61.05
22 13 16 00-0748 Acrylonitrile Butadiene Styrene (ABS) DWV Sanitary Tees (22 13 16 00-0730)		
22 13 16 00-0749 EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	75.96 15.86	35.25
22 13 16 00-0750 EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	102.40 20.30	45.11
22 13 16 00-0751 EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	179.40 27.28	60.63
22 13 16 00-0752 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	275.72 31.72	70.49
22 13 16 00-0753 EA 6" Acrylonitrile Butadiene Styrene (ABS) DWV Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	1,058.82 41.24	91.50
22 13 16 00-0754 Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees (22 13 16 00-0730)		
22 13 16 00-0755 EA 2" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	94.63 17.34	38.48
22 13 16 00-0756 EA 2" x 1-1/2" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	114.46 18.82	41.73
22 13 16 00-0757 EA 2" x 2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	96.02 18.82	41.73
22 13 16 00-0758 EA 3" x 3" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	145.81 23.47	52.16
22 13 16 00-0759 EA 3" x 3" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	151.37 24.95	55.41
22 13 16 00-0760 EA 4" x 4" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	333.10 26.43	58.65
22 13 16 00-0761 EA 4" x 4" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	321.74 27.92	62.03
22 13 16 00-0762 EA 4" x 4" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	368.98 30.24	67.10
22 13 16 00-0763 EA 6" x 6" x 4" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	1,157.03 38.06	84.45
22 13 16 00-0764 Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees (22 13 16 00-0730)		
22 13 16 00-0765 EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	140.66 21.15	46.95



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0766	EA		2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	192.60 27.07	60.05
22 13 16 00-0767	EA		3" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	408.82 36.37	80.78
22 13 16 00-0768	EA		4" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	601.89 42.29	93.89
22 13 16 00-0769			Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Double Sanitary Teas <small>(22 13 16 00-0730)</small>		
22 13 16 00-0770	EA		2" x 2" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	159.95 24.11	53.58
22 13 16 00-0771	EA		3" x 3" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	242.44 28.76	63.86
22 13 16 00-0772	EA		3" x 3" x 2" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	279.16 31.72	70.49
22 13 16 00-0773	EA		4" x 4" x 2" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	484.38 30.73	68.20
22 13 16 00-0774	EA		4" x 4" x 3" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	508.66 34.85	77.32
22 13 16 00-0775			Acrylonitrile Butadiene Styrene (ABS) DWV Wyes <small>(22 13 16 00-0730)</small>		
22 13 16 00-0776	EA		1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Wyes <i>For Work In Restricted Working Space, Add</i>	99.37 15.86	35.25
22 13 16 00-0777	EA		2" Acrylonitrile Butadiene Styrene (ABS) DWV Wyes <i>For Work In Restricted Working Space, Add</i>	115.43 20.30	45.11
22 13 16 00-0778	EA		3" Acrylonitrile Butadiene Styrene (ABS) DWV Wyes <i>For Work In Restricted Working Space, Add</i>	196.60 27.28	60.63
22 13 16 00-0779	EA		4" Acrylonitrile Butadiene Styrene (ABS) DWV Wyes <i>For Work In Restricted Working Space, Add</i>	302.62 31.72	70.49
22 13 16 00-0780	EA		6" Acrylonitrile Butadiene Styrene (ABS) DWV Wyes <i>For Work In Restricted Working Space, Add</i>	859.88 41.24	91.50
22 13 16 00-0781			Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes <small>(22 13 16 00-0730)</small>		
22 13 16 00-0782	EA		2" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	140.77 17.34	38.48
22 13 16 00-0783	EA		2" x 2" X 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	144.87 18.82	41.73
22 13 16 00-0784	EA		3" x 3" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	165.31 24.95	55.41
22 13 16 00-0785	EA		4" x 4" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	251.24 27.92	62.03
22 13 16 00-0786	EA		4" x 4" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	285.61 30.24	67.10
22 13 16 00-0787	EA		6" x 6" x 4" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	723.76 38.06	84.45
22 13 16 00-0788			Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes <small>(22 13 16 00-0730)</small>		
22 13 16 00-0789	EA		1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	169.40 21.15	46.95
22 13 16 00-0790	EA		2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	217.45 27.07	60.05
22 13 16 00-0791	EA		3" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	450.14 36.37	80.78
22 13 16 00-0792	EA		4" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	807.23 42.29	93.89
22 13 16 00-0793			Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Double Wyes <small>(22 13 16 00-0730)</small>		
22 13 16 00-0794	EA		2" x 2" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	196.55 24.11	53.58
22 13 16 00-0795	EA		3" x 3" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	327.86 28.76	63.86
22 13 16 00-0796	EA		3" x 3" x 2" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	349.92 31.72	70.49
22 13 16 00-0797	EA		4" x 4" x 2" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	515.06 34.68	76.98
22 13 16 00-0798	EA		4" x 4" x 3" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	658.76 39.34	87.26
22 13 16 00-0799			Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bend <small>(22 13 16 00-0730)</small>		
22 13 16 00-0800	EA		1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	127.15 15.86	35.25
22 13 16 00-0801	EA		2" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	164.22 20.30	45.11



Plumbing	22	22
Plumbing Piping	22 10	
Facility Sanitary Sewerage	22 13	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0802	EA		3" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	249.99 27.28	60.63
22 13 16 00-0803	EA		4" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	405.94 28.10	62.46
22 13 16 00-0804			Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Combination Wye And 1/8 Bend <small>(22 13 16 00-0730)</small>		
22 13 16 00-0805	EA		2" x 2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	140.92 18.82	41.73
22 13 16 00-0806	EA		3" x 3" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	263.36 23.47	52.16
22 13 16 00-0807	EA		3" x 3" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	198.87 24.95	55.41
22 13 16 00-0808	EA		4" x 4" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	350.74 27.92	62.03
22 13 16 00-0809	EA		4" x 4" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	379.83 30.24	67.10
22 13 16 00-0810			Acrylonitrile Butadiene Styrene (ABS) DWV Double Combination Wye And 1/8 Bend <small>(22 13 16 00-0730)</small>		
22 13 16 00-0811	EA		2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	265.00 27.07	60.05
22 13 16 00-0812	EA		3" Acrylonitrile Butadiene Styrene (ABS) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	524.34 36.37	80.78
22 13 16 00-0813			Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Double Combination Wye And 1/8 Bend <small>(22 13 16 00-0730)</small>		
22 13 16 00-0814	EA		2" x 2" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	221.01 24.11	53.58
22 13 16 00-0815	EA		3" x 3" x 2" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	501.96 31.72	70.49
22 13 16 00-0816			Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Tees With Plug <small>(22 13 16 00-0730)</small>		
22 13 16 00-0817	EA		1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Tees With Plug <i>For Work In Restricted Working Space, Add</i>	140.23 15.86	35.25
22 13 16 00-0818	EA		2" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Tees With Plug <i>For Work In Restricted Working Space, Add</i>	177.30 20.30	45.11
22 13 16 00-0819	EA		3" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Tees With Plug <i>For Work In Restricted Working Space, Add</i>	279.24 27.28	60.63
22 13 16 00-0820	EA		4" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Tees With Plug <i>For Work In Restricted Working Space, Add</i>	457.73 31.72	70.49
22 13 16 00-0821			Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Adapters With Plug <small>(22 13 16 00-0730)</small>		
22 13 16 00-0822	EA		1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Adapters With Plug <i>For Work In Restricted Working Space, Add</i>	65.20 10.58	23.54
22 13 16 00-0823	EA		2" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Adapters With Plug <i>For Work In Restricted Working Space, Add</i>	93.45 13.53	30.03
22 13 16 00-0824	EA		3" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Adapters With Plug <i>For Work In Restricted Working Space, Add</i>	134.92 18.19	40.32
22 13 16 00-0825	EA		4" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Adapters With Plug <i>For Work In Restricted Working Space, Add</i>	245.37 21.15	46.95
22 13 16 00-0826	EA		6" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Adapters With Plug <i>For Work In Restricted Working Space, Add</i>	571.76 27.49	61.05
22 13 16 00-0827			Acrylonitrile Butadiene Styrene (ABS) DWV Couplings <small>(22 13 16 00-0730)</small>		
22 13 16 00-0828	EA		1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Couplings <i>For Work In Restricted Working Space, Add</i>	45.57 10.58	23.54
22 13 16 00-0829	EA		2" Acrylonitrile Butadiene Styrene (ABS) DWV Couplings <i>For Work In Restricted Working Space, Add</i>	56.00 13.53	30.03
22 13 16 00-0830	EA		3" Acrylonitrile Butadiene Styrene (ABS) DWV Couplings <i>For Work In Restricted Working Space, Add</i>	90.24 18.19	40.32
22 13 16 00-0831	EA		4" Acrylonitrile Butadiene Styrene (ABS) DWV Couplings <i>For Work In Restricted Working Space, Add</i>	119.31 21.15	46.95
22 13 16 00-0832	EA		6" Acrylonitrile Butadiene Styrene (ABS) DWV Couplings <i>For Work In Restricted Working Space, Add</i>	332.94 27.49	61.05
22 13 16 00-0833			Acrylonitrile Butadiene Styrene (ABS) DWV Reducers <small>(22 13 16 00-0730)</small>		
22 13 16 00-0834	EA		2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducers <i>For Work In Restricted Working Space, Add</i>	66.35 12.05	26.79
22 13 16 00-0835	EA		3" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducers <i>For Work In Restricted Working Space, Add</i>	130.91 14.38	31.86
22 13 16 00-0836	EA		3" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducers <i>For Work In Restricted Working Space, Add</i>	122.44 15.86	35.25



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0837	EA		4" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducers <i>For Work In Restricted Working Space, Add</i>	195.03 17.34	38.48
22 13 16 00-0838	EA		4" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Reducers <i>For Work In Restricted Working Space, Add</i>	209.13 19.67	43.70
22 13 16 00-0839			Acrylonitrile Butadiene Styrene (ABS) DWV P-Traps (22 13 16 00-0730)		
22 13 16 00-0840	EA		1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV P-Traps <i>For Work In Restricted Working Space, Add</i>	103.60 15.86	35.25
22 13 16 00-0841	EA		2" Acrylonitrile Butadiene Styrene (ABS) DWV P-Traps <i>For Work In Restricted Working Space, Add</i>	149.81 20.30	45.11
22 13 16 00-0842	EA		3" Acrylonitrile Butadiene Styrene (ABS) DWV P-Traps <i>For Work In Restricted Working Space, Add</i>	467.09 27.28	60.63
22 13 16 00-0843	EA		4" Acrylonitrile Butadiene Styrene (ABS) DWV P-Traps <i>For Work In Restricted Working Space, Add</i>	876.40 31.72	70.49
22 13 16 00-0844			Acrylonitrile Butadiene Styrene (ABS) DWV Closet Flanges (22 13 16 00-0730)		
22 13 16 00-0845	EA		4" Acrylonitrile Butadiene Styrene (ABS) DWV Closet Flanges <i>For Work In Restricted Working Space, Add</i>	141.33 21.15	46.95
22 13 16 00-0846	EA		4" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Closet Flanges <i>For Work In Restricted Working Space, Add</i>	131.99 19.67	43.70
22 13 16 00-0847			Acrylonitrile Butadiene Styrene (ABS) DWV Male Adapters (22 13 16 00-0730)		
22 13 16 00-0848	EA		1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Male Adapters <i>For Work In Restricted Working Space, Add</i>	30.79 5.29	11.70
22 13 16 00-0849	EA		2" Acrylonitrile Butadiene Styrene (ABS) DWV Male Adapters <i>For Work In Restricted Working Space, Add</i>	45.91 6.77	15.08
22 13 16 00-0850	EA		3" Acrylonitrile Butadiene Styrene (ABS) DWV Male Adapters <i>For Work In Restricted Working Space, Add</i>	98.33 9.09	20.16
22 13 16 00-0851	EA		4" Acrylonitrile Butadiene Styrene (ABS) DWV Male Adapters <i>For Work In Restricted Working Space, Add</i>	185.74 10.58	23.54
22 13 16 00-0852			Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushings (22 13 16 00-0730)		
22 13 16 00-0853	EA		2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushing <i>For Work In Restricted Working Space, Add</i>	51.07 12.05	26.79
22 13 16 00-0854	EA		3" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushing <i>For Work In Restricted Working Space, Add</i>	106.66 14.38	31.86
22 13 16 00-0855	EA		3" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushing <i>For Work In Restricted Working Space, Add</i>	90.17 15.86	35.25
22 13 16 00-0856	EA		4" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushing <i>For Work In Restricted Working Space, Add</i>	193.14 17.34	38.48
22 13 16 00-0857	EA		4" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushing <i>For Work In Restricted Working Space, Add</i>	143.98 19.67	43.70
22 13 16 00-0858	EA		6" x 4" Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushing <i>For Work In Restricted Working Space, Add</i>	379.37 21.55	47.84
22 13 16 00-0859			Acrylonitrile Butadiene Styrene (ABS) To Polyvinyl Chloride (PVC) Flexible Couplings (22 13 16 00-0730)		
22 13 16 00-0860	EA		1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) To Polyvinyl Chloride (PVC) Flexible Coupling <i>For Work In Restricted Working Space, Add</i>	124.70 10.58	23.54
22 13 16 00-0861	EA		2" x 2" Acrylonitrile Butadiene Styrene (ABS) To Polyvinyl Chloride (PVC) Flexible Coupling <i>For Work In Restricted Working Space, Add</i>	140.52 13.53	30.03
22 13 16 00-0862	EA		3" x 3" Acrylonitrile Butadiene Styrene (ABS) To Polyvinyl Chloride (PVC) Flexible Coupling <i>For Work In Restricted Working Space, Add</i>	162.01 18.19	40.32
22 13 16 00-0863	EA		4" x 4" Acrylonitrile Butadiene Styrene (ABS) To Polyvinyl Chloride (PVC) Flexible Coupling <i>For Work In Restricted Working Space, Add</i>	177.83 21.15	46.95
22 13 16 00-0864			Cut And Prepare Existing Acrylonitrile Butadiene Styrene (ABS) DWV Pipe (22 13 16 00-0717) Note: In place piping.		
22 13 16 00-0865	EA		1-1/2", Cut And Prepare Existing Acrylonitrile Butadiene Styrene (ABS) DWV Pipe	10.33	
22 13 16 00-0866	EA		2", Cut And Prepare Existing Acrylonitrile Butadiene Styrene (ABS) DWV Pipe.....	11.37	
22 13 16 00-0867	EA		3", Cut And Prepare Existing Acrylonitrile Butadiene Styrene (ABS) DWV Pipe.....	14.48	
22 13 16 00-0868	EA		4", Cut And Prepare Existing Acrylonitrile Butadiene Styrene (ABS) DWV Pipe.....	19.52	
22 13 16 00-0869	EA		6", Cut And Prepare Existing Acrylonitrile Butadiene Styrene (ABS) DWV Pipe.....	27.90	
22 13 16 00-0870			Elastomeric Flexible Pipe Couplings (22 13 16)		
22 13 16 00-0871			Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Couplings (22 13 16 00-0870) Note: For cast iron or plastic to cast iron or plastic pipe (Cast Iron/Plastic To Cast Iron/Plastic). Includes stainless steel clamps.		
22 13 16 00-0872	EA		1-1/4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-125) <i>For Work In Restricted Working Space, Add</i>	16.70 3.68	6.12
22 13 16 00-0873	EA		1-1/2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-150) <i>For Work In Restricted Working Space, Add</i>	17.95 3.91	6.50



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0874	EA		2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-22) <i>For Work In Restricted Working Space, Add</i>	18.90 4.13	6.90
22 13 16 00-0875	EA		3" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-33) <i>For Work In Restricted Working Space, Add</i>	21.47 4.37	7.28
22 13 16 00-0876	EA		4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-44) <i>For Work In Restricted Working Space, Add</i>	23.97 4.59	7.66
22 13 16 00-0877	EA		5" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-55) <i>For Work In Restricted Working Space, Add</i>	29.65 4.82	8.04
22 13 16 00-0878	EA		6" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-66) <i>For Work In Restricted Working Space, Add</i>	35.37 5.06	8.42
22 13 16 00-0879	EA		8" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-88) <i>For Work In Restricted Working Space, Add</i>	46.86 5.51	9.19
22 13 16 00-0880	EA		10" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-1010) <i>For Work In Restricted Working Space, Add</i>	61.03 6.43	10.72
22 13 16 00-0881			Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Couplings <small>(22 13 16 00-0870)</small> Note: For cast iron or plastic to cast iron or plastic pipe (Cast Iron/Plastic To Cast Iron/Plastic). Includes stainless steel clamps.		
22 13 16 00-0882	EA		1-1/2" x 1-1/4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-150/125) <i>For Work In Restricted Working Space, Add</i>	17.78 3.91	6.50
22 13 16 00-0883	EA		2" x 1-1/2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-215) <i>For Work In Restricted Working Space, Add</i>	19.19 4.13	6.90
22 13 16 00-0884	EA		3" x 1-1/2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-315) <i>For Work In Restricted Working Space, Add</i>	22.89 4.37	7.28
22 13 16 00-0885	EA		3" x 2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-32) <i>For Work In Restricted Working Space, Add</i>	20.94 4.37	7.28
22 13 16 00-0886	EA		4" x 1-1/2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-415) <i>For Work In Restricted Working Space, Add</i>	27.48 4.59	7.66
22 13 16 00-0887	EA		4" x 2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-42) <i>For Work In Restricted Working Space, Add</i>	26.49 4.59	7.66
22 13 16 00-0888	EA		4" x 3" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-43) <i>For Work In Restricted Working Space, Add</i>	24.63 4.59	7.66
22 13 16 00-0889	EA		5" x 3" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-53) <i>For Work In Restricted Working Space, Add</i>	34.00 4.82	8.04
22 13 16 00-0890	EA		5" x 4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-54) <i>For Work In Restricted Working Space, Add</i>	31.16 4.82	8.04
22 13 16 00-0891	EA		6" x 3" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-63) <i>For Work In Restricted Working Space, Add</i>	41.22 5.06	8.42
22 13 16 00-0892	EA		6" x 4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-64) <i>For Work In Restricted Working Space, Add</i>	36.98 5.06	8.42
22 13 16 00-0893	EA		6" x 5" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-65) <i>For Work In Restricted Working Space, Add</i>	38.16 5.06	8.42
22 13 16 00-0894	EA		8" x 4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-84) <i>For Work In Restricted Working Space, Add</i>	74.22 9.19	15.31
22 13 16 00-0895	EA		8" x 6" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-86) <i>For Work In Restricted Working Space, Add</i>	62.47 9.19	15.31
22 13 16 00-0896	EA		10" x 8" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-10-8) <i>For Work In Restricted Working Space, Add</i>	77.82 10.34	17.23
22 13 16 00-0897			Elastomeric Flexible Pipe Caps (Fernco QC) <small>(22 13 16)</small> Note: For cast iron, steel, copper or plastic pipe. Includes stainless steel clamp.		
22 13 16 00-0898	EA		1-1/2" Elastomeric Flexible Pipe Cap (Fernco QC-101).....	65.98	41.34
22 13 16 00-0899	EA		2" Elastomeric Flexible Pipe Cap (Fernco QC-102).....	70.61	43.95
22 13 16 00-0900	EA		3" Elastomeric Flexible Pipe Cap (Fernco QC-103).....	81.57	50.38
22 13 16 00-0901	EA		4" Elastomeric Flexible Pipe Cap (Fernco QC-104).....	107.72	66.62
22 13 16 00-0902	EA		5" Elastomeric Flexible Pipe Cap (Fernco QC-105).....	129.00	79.63
22 13 16 00-0903	EA		6" Elastomeric Flexible Pipe Cap (Fernco QC-106).....	149.19	91.88
22 13 16 00-0904	EA		8" Elastomeric Flexible Pipe Cap (Fernco QC-108).....	197.56	116.38
22 13 16 00-0905	EA		10" Elastomeric Flexible Pipe Cap (Fernco QC-110).....	238.23	130.16
22 13 16 00-0906	EA		12" Elastomeric Flexible Pipe Cap (Fernco QC-112).....	293.83	144.71
22 13 16 00-0907			Cast Iron Vent Stack Flashing Sleeves With Caulking Recess (Josam 26450 Series) <small>(22 13 16)</small>		
22 13 16 00-0908	EA		1-1/2" Cast Iron Vent Stack Flashing Sleeves With Caulking Recess	113.37	31.72
22 13 16 00-0909	EA		2" Cast Iron Vent Stack Flashing Sleeves With Caulking Recess	120.42	35.25
22 13 16 00-0910	EA		3" Cast Iron Vent Stack Flashing Sleeves With Caulking Recess	177.23	45.81
22 13 16 00-0911	EA		4" Cast Iron Vent Stack Flashing Sleeves With Caulking Recess	207.38	52.86
22 13 16 00-0912	EA		5" Cast Iron Vent Stack Flashing Sleeves With Caulking Recess	241.07	59.91
22 13 16 00-0913	EA		6" Cast Iron Vent Stack Flashing Sleeves With Caulking Recess	390.69	66.96
22 13 16 00-0914			Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess (Josam 26440 Series) <small>(22 13 16)</small>		
22 13 16 00-0915	EA		1-1/2" Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess	218.95	31.72
22 13 16 00-0916	EA		2" Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess	226.00	35.25
22 13 16 00-0917	EA		3" Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess	270.40	45.81
22 13 16 00-0918	EA		4" Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess	336.32	52.86

22 Plumbing
22 10 Plumbing Piping
22 13 Facility Sanitary Sewerage



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0919 EA 5" Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess	454.09	59.91
22 13 16 00-0920 EA 6" Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess	468.19	66.96
22 13 16 00-0921 Cast Iron Vandal Proof Hooded Vent Cap (Josam 26700 Series) <small>(22 13 16)</small>		
Note: Includes counterflashing collar, deep protective hood and recessed securing screws.		
22 13 16 00-0922 EA 1-1/2" Cast Iron Vandal Proof Hooded Vent Cap.....	404.82	31.72
22 13 16 00-0923 EA 2" Cast Iron Vandal Proof Hooded Vent Cap.....	411.87	35.25
22 13 16 00-0924 EA 3" Cast Iron Vandal Proof Hooded Vent Cap.....	475.69	45.81
22 13 16 00-0925 EA 4" Cast Iron Vandal Proof Hooded Vent Cap.....	536.02	52.86
22 13 16 00-0926 EA 5" Cast Iron Vandal Proof Hooded Vent Cap.....	624.80	59.91
22 13 16 00-0927 EA 6" Cast Iron Vandal Proof Hooded Vent Cap.....	683.35	66.96
22 13 19 Sanitary Waste Piping Specialties <small>(22 13)</small>		
22 13 19 13 Sanitary Drains <small>(22 13 19)</small>		
22 13 19 13-0001 Round Top Floor Drains <small>(22 13 19 13)</small>		
22 13 19 13-0002 EA Bronze Top, 6" Round Top Floor Drain With 1-1/2" Outlet.....	927.65	151.55
<i>For Galvanized Cast Iron Parts, Add</i> 105.00		
<i>For Sediment Bucket, Add</i> 22.50		
<i>For Vandal Proof Screws, Add</i> 11.00		
22 13 19 13-0003 EA Bronze Top, 6" Round Top Floor Drain With 2" Outlet.....	1,020.15	169.88
<i>For Galvanized Cast Iron Parts, Add</i> 105.00		
<i>For Sediment Bucket, Add</i> 22.50		
<i>For Vandal Proof Screws, Add</i> 11.00		
22 13 19 13-0004 EA Bronze Top, 6" Round Top Floor Drain With 3" Outlet.....	1,000.54	187.93
<i>For Galvanized Cast Iron Parts, Add</i> 105.00		
<i>For Sediment Bucket, Add</i> 22.50		
<i>For Vandal Proof Screws, Add</i> 11.00		
22 13 19 13-0005 EA Bronze Top, 6" Round Top Floor Drain With 4" Outlet.....	1,039.25	207.38
<i>For Galvanized Cast Iron Parts, Add</i> 105.00		
<i>For Sediment Bucket, Add</i> 22.50		
<i>For Vandal Proof Screws, Add</i> 11.00		
22 13 19 13-0006 EA Cast Iron Top, 9" Round Top Floor Drain With 2" Outlet.....	935.53	169.88
<i>For Galvanized Cast Iron Parts, Add</i> 87.50		
<i>For Vandal Proof Screws, Add</i> 30.50		
<i>For Ductile Iron Grate, Add</i> 48.00		
<i>For Cast Iron Dome Grate, Add</i> 17.00		
<i>For Nikaloy Dome Grate, Add</i> 178.50		
<i>For Bronze Dome Grate, Add</i> 143.00		
<i>For Cast Iron Extension Collar, Each 3" (76 mm), Add</i> 57.50		
<i>For Galvanized Extension Collar, Each 3", Add</i> 117.50		
22 13 19 13-0007 EA Cast Iron Top, 9" Round Top Floor Drain With 3" Outlet.....	971.76	187.93
<i>For Galvanized Cast Iron Parts, Add</i> 87.50		
<i>For Vandal Proof Screws, Add</i> 30.50		
<i>For Ductile Iron Grate, Add</i> 48.00		
<i>For Cast Iron Dome Grate, Add</i> 17.00		
<i>For Nikaloy Dome Grate, Add</i> 178.50		
<i>For Bronze Dome Grate, Add</i> 143.00		
<i>For Cast Iron Extension Collar, Each 3" (76 mm), Add</i> 57.50		
<i>For Galvanized Extension Collar, Each 3", Add</i> 117.50		
22 13 19 13-0008 EA Cast Iron Top, 9" Round Top Floor Drain With 4" Outlet.....	1,010.47	207.38
<i>For Galvanized Cast Iron Parts, Add</i> 87.50		
<i>For Vandal Proof Screws, Add</i> 30.50		
<i>For Ductile Iron Grate, Add</i> 48.00		
<i>For Cast Iron Dome Grate, Add</i> 17.00		
<i>For Nikaloy Dome Grate, Add</i> 178.50		
<i>For Bronze Dome Grate, Add</i> 143.00		
<i>For Cast Iron Extension Collar, Each 3" (76 mm), Add</i> 57.50		
<i>For Galvanized Extension Collar, Each 3", Add</i> 117.50		
22 13 19 13-0009 EA Nikaloy Top, 9" Round Top Floor Drain With 2" Outlet	1,528.47	169.88
<i>For Galvanized Cast Iron Parts, Add</i> 87.50		
<i>For Vandal Proof Screws, Add</i> 30.50		
<i>For Ductile Iron Grate, Add</i> 48.00		
<i>For Cast Iron Dome Grate, Add</i> 17.00		
<i>For Nikaloy Dome Grate, Add</i> 178.50		
<i>For Bronze Dome Grate, Add</i> 143.00		
<i>For Cast Iron Extension Collar, Each 3" (76 mm), Add</i> 57.50		
<i>For Galvanized Extension Collar, Each 3", Add</i> 117.50		
22 13 19 13-0010 EA Nikaloy Top, 9" Round Top Floor Drain With 3" Outlet	1,564.70	187.93
<i>For Galvanized Cast Iron Parts, Add</i> 87.50		
<i>For Vandal Proof Screws, Add</i> 30.50		
<i>For Ductile Iron Grate, Add</i> 48.00		
<i>For Cast Iron Dome Grate, Add</i> 17.00		
<i>For Nikaloy Dome Grate, Add</i> 178.50		
<i>For Bronze Dome Grate, Add</i> 143.00		
<i>For Cast Iron Extension Collar, Each 3" (76 mm), Add</i> 57.50		
<i>For Galvanized Extension Collar, Each 3", Add</i> 117.50		



	Plumbing	22
	Plumbing Piping	22 10
	Facility Sanitary Sewerage	22 13

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0011 EA Nikaloy Top, 9" Round Top Floor Drain With 4" Outlet	1,603.41	207.38
For Galvanized Cast Iron Parts, Add	87.50	
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	48.00	
For Cast Iron Dome Grate, Add	17.00	
For Nikaloy Dome Grate, Add	178.50	
For Bronze Dome Grate, Add	143.00	
For Cast Iron Extension Collar, Each 3" (76 mm), Add	57.50	
For Galvanized Extension Collar, Each 3", Add	117.50	
22 13 19 13-0012 EA Bronze Top, 9" Round Top Floor Drain With 2" Outlet.....	1,442.12	169.88
For Galvanized Cast Iron Parts, Add	87.50	
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	48.00	
For Cast Iron Dome Grate, Add	17.00	
For Nikaloy Dome Grate, Add	178.50	
For Bronze Dome Grate, Add	143.00	
For Cast Iron Extension Collar, Each 3" (76 mm), Add	57.50	
For Galvanized Extension Collar, Each 3", Add	117.50	
22 13 19 13-0013 EA Bronze Top, 9" Round Top Floor Drain With 3" Outlet.....	1,478.15	187.93
For Galvanized Cast Iron Parts, Add	87.50	
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	48.00	
For Cast Iron Dome Grate, Add	17.00	
For Nikaloy Dome Grate, Add	178.50	
For Bronze Dome Grate, Add	143.00	
For Cast Iron Extension Collar, Each 3" (76 mm), Add	57.50	
For Galvanized Extension Collar, Each 3", Add	117.50	
22 13 19 13-0014 EA Bronze Top, 9" Round Top Floor Drain With 4" Outlet.....	1,517.06	207.38
For Galvanized Cast Iron Parts, Add	87.50	
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	48.00	
For Cast Iron Dome Grate, Add	17.00	
For Nikaloy Dome Grate, Add	178.50	
For Bronze Dome Grate, Add	143.00	
For Cast Iron Extension Collar, Each 3" (76 mm), Add	57.50	
For Galvanized Extension Collar, Each 3", Add	117.50	
22 13 19 13-0015 EA Cast Iron Top, 12-5/8" Round Top Floor Drain With 2" Outlet	1,580.12	169.74
For Chained Grate, Add	48.50	
For Primer Tap, Add	33.50	
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	53.00	
For Cast Iron Dome Grate, Add	28.00	
For Nikaloy Dome Grate, Add	255.00	
For Bronze Dome Grate, Add	218.50	
For Cast Iron Extension Collar, Each 2", Add	51.00	
For Galvanized Extension Collar, Each 2", Add	102.50	
For Galvanized Cast Iron Parts, Add	132.00	
22 13 19 13-0016 EA Cast Iron Top, 12-5/8" Round Top Floor Drain With 3" Outlet	1,616.31	187.93
For Chained Grate, Add	48.50	
For Primer Tap, Add	33.50	
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	53.00	
For Cast Iron Dome Grate, Add	28.00	
For Nikaloy Dome Grate, Add	255.00	
For Bronze Dome Grate, Add	218.50	
For Cast Iron Extension Collar, Each 2", Add	51.00	
For Galvanized Extension Collar, Each 2", Add	102.50	
For Galvanized Cast Iron Parts, Add	132.00	
22 13 19 13-0017 EA Cast Iron Top, 12-5/8" Round Top Floor Drain With 4" Outlet	1,655.22	207.38
For Chained Grate, Add	48.50	
For Primer Tap, Add	33.50	
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	53.00	
For Cast Iron Dome Grate, Add	28.00	
For Nikaloy Dome Grate, Add	255.00	
For Bronze Dome Grate, Add	218.50	
For Cast Iron Extension Collar, Each 2", Add	51.00	
For Galvanized Extension Collar, Each 2", Add	102.50	
For Galvanized Cast Iron Parts, Add	132.00	
22 13 19 13-0018 EA Nikaloy Top, 12-5/8" Round Top Floor Drain With 2" Outlet.....	2,466.65	169.74
For Chained Grate, Add	48.50	
For Primer Tap, Add	33.50	
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	53.00	
For Cast Iron Dome Grate, Add	28.00	
For Nikaloy Dome Grate, Add	255.00	
For Bronze Dome Grate, Add	218.50	
For Cast Iron Extension Collar, Each 2", Add	51.00	
For Galvanized Extension Collar, Each 2", Add	102.50	
For Galvanized Cast Iron Parts, Add	132.00	

22	Plumbing
22 10	Plumbing Piping
22 13	Facility Sanitary Sewerage



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
------------------------------	---------------------------	-------------------------

22 13 19 13-0019	EA Nikaloy Top, 12-5/8" Round Top Floor Drain With 3" Outlet	2,502.84	187.93
	For Chained Grate, Add	48.50	
	For Primer Tap, Add	33.50	
	For Vandal Proof Screws, Add	30.50	
	For Ductile Iron Grate, Add	53.00	
	For Cast Iron Dome Grate, Add	28.00	
	For Nikaloy Dome Grate, Add	255.00	
	For Bronze Dome Grate, Add	218.50	
	For Cast Iron Extension Collar, Each 2", Add	51.00	
	For Galvanized Extension Collar, Each 2", Add	102.50	
	For Galvanized Cast Iron Parts, Add	132.00	
22 13 19 13-0020	EA Nikaloy Top, 12-5/8" Round Top Floor Drain With 4" Outlet	2,541.75	207.38
	For Chained Grate, Add	48.50	
	For Primer Tap, Add	33.50	
	For Vandal Proof Screws, Add	30.50	
	For Ductile Iron Grate, Add	53.00	
	For Cast Iron Dome Grate, Add	28.00	
	For Nikaloy Dome Grate, Add	255.00	
	For Bronze Dome Grate, Add	218.50	
	For Cast Iron Extension Collar, Each 2", Add	51.00	
	For Galvanized Extension Collar, Each 2", Add	102.50	
	For Galvanized Cast Iron Parts, Add	132.00	
22 13 19 13-0021	EA Bronze Top, 12-5/8" Round Top Floor Drain With 2" Outlet	2,348.64	169.74
	For Chained Grate, Add	48.50	
	For Primer Tap, Add	33.50	
	For Vandal Proof Screws, Add	30.50	
	For Ductile Iron Grate, Add	53.00	
	For Cast Iron Dome Grate, Add	28.00	
	For Nikaloy Dome Grate, Add	255.00	
	For Bronze Dome Grate, Add	218.50	
	For Cast Iron Extension Collar, Each 2", Add	51.00	
	For Galvanized Extension Collar, Each 2", Add	102.50	
	For Galvanized Cast Iron Parts, Add	132.00	
22 13 19 13-0022	EA Bronze Top, 12-5/8" Round Top Floor Drain With 3" Outlet	2,384.83	187.93
	For Chained Grate, Add	48.50	
	For Primer Tap, Add	33.50	
	For Vandal Proof Screws, Add	30.50	
	For Ductile Iron Grate, Add	53.00	
	For Cast Iron Dome Grate, Add	28.00	
	For Nikaloy Dome Grate, Add	255.00	
	For Bronze Dome Grate, Add	218.50	
	For Cast Iron Extension Collar, Each 2", Add	51.00	
	For Galvanized Extension Collar, Each 2", Add	102.50	
	For Galvanized Cast Iron Parts, Add	132.00	
22 13 19 13-0023	EA Bronze Top, 12-5/8" Round Top Floor Drain With 4" Outlet	2,423.74	207.38
	For Chained Grate, Add	48.50	
	For Primer Tap, Add	33.50	
	For Vandal Proof Screws, Add	30.50	
	For Ductile Iron Grate, Add	53.00	
	For Cast Iron Dome Grate, Add	28.00	
	For Nikaloy Dome Grate, Add	255.00	
	For Bronze Dome Grate, Add	218.50	
	For Cast Iron Extension Collar, Each 2", Add	51.00	
	For Galvanized Extension Collar, Each 2", Add	102.50	
	For Galvanized Cast Iron Parts, Add	132.00	

22 13 19 13-0024 Square Or Rectangular Top Drains (22 13 19 13)

22 13 19 13-0025	EA 5" x 5" Floor Drain With 2" Bottom Outlet, Nikaloy Top	1,099.43	169.74
	For Galvanized Cast Iron Parts, Add	105.00	
	For Sediment Bucket, Add	22.50	
	For Vandal Proof Screws, Add	11.00	
22 13 19 13-0026	EA 5" x 5" Floor Drain With 3" Bottom Outlet, Nikaloy Top	1,136.03	188.07
	For Galvanized Cast Iron Parts, Add	105.00	
	For Sediment Bucket, Add	22.50	
	For Vandal Proof Screws, Add	11.00	
22 13 19 13-0027	EA 5" x 5" Floor Drain With 4" Bottom Outlet, Nikaloy Top	1,174.53	207.38
	For Galvanized Cast Iron Parts, Add	105.00	
	For Sediment Bucket, Add	22.50	
	For Vandal Proof Screws, Add	11.00	
22 13 19 13-0028	EA 6" x 6" Floor Drain With 2" Bottom Outlet, Nikaloy Top	1,185.78	169.74
	For Galvanized Cast Iron Parts, Add	105.00	
	For Sediment Bucket, Add	22.50	
	For Vandal Proof Screws, Add	11.00	
22 13 19 13-0029	EA 6" x 6" Floor Drain With 3" Bottom Outlet, Nikaloy Top	1,222.38	188.07
	For Galvanized Cast Iron Parts, Add	105.00	
	For Sediment Bucket, Add	22.50	
	For Vandal Proof Screws, Add	11.00	
22 13 19 13-0030	EA 6" x 6" Floor Drain With 4" Bottom Outlet, Nikaloy Top	1,260.88	207.38
	For Galvanized Cast Iron Parts, Add	105.00	
	For Sediment Bucket, Add	22.50	
	For Vandal Proof Screws, Add	11.00	
22 13 19 13-0031	EA 8" x 8" Floor Drain With 2" Bottom Outlet, Nikaloy Top	1,565.73	169.74
	For Galvanized Cast Iron Parts, Add	105.00	
	For Sediment Bucket, Add	22.50	
	For Vandal Proof Screws, Add	11.00	



	Plumbing	22
	Plumbing Piping	22 10
	Facility Sanitary Sewerage	22 13

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0032	EA		8" x 8" Floor Drain With 3" Bottom Outlet, Nikaloy Top.....	1,602.33	188.07
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0033	EA		8" x 8" Floor Drain With 4" Bottom Outlet, Nikaloy Top.....	1,640.83	207.38
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0034	EA		5" x 5" Floor Drain With 2" Bottom Outlet, Bronze Top.....	1,036.11	169.74
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0035	EA		5" x 5" Floor Drain With 3" Bottom Outlet, Bronze Top.....	1,072.71	188.07
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0036	EA		5" x 5" Floor Drain With 4" Bottom Outlet, Bronze Top.....	1,111.21	207.38
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0037	EA		6" x 6" Floor Drain With 2" Bottom Outlet, Bronze Top.....	1,145.49	169.74
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0038	EA		6" x 6" Floor Drain With 3" Bottom Outlet, Bronze Top.....	1,182.09	188.07
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0039	EA		6" x 6" Floor Drain With 4" Bottom Outlet, Bronze Top.....	1,220.59	207.38
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0040	EA		8" x 8" Floor Drain With 2" Bottom Outlet, Bronze Top.....	1,453.47	169.74
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0041	EA		8" x 8" Floor Drain With 3" Bottom Outlet, Bronze Top.....	1,490.07	188.07
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0042	EA		8" x 8" Floor Drain With 4" Bottom Outlet, Bronze Top.....	1,528.57	207.38
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0043	EA		12" x 12" Can Wash Drain With 3" Bottom Outlet, Cast Iron Top.....	3,712.16	188.07
			<i>For Chained Grate, Add</i>	48.50	
			<i>For No-Hub Side Outlet, Add</i>	76.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	318.00	
22 13 19 13-0044	EA		12" x 12" Can Wash Drain With 4" Bottom Outlet, Cast Iron Top.....	3,750.66	207.38
			<i>For Chained Grate, Add</i>	48.50	
			<i>For No-Hub Side Outlet, Add</i>	76.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	318.00	
22 13 19 13-0045	EA		12" x 12" Can Wash Drain With 3" Bottom Outlet, Nikaloy Top.....	4,650.50	188.07
			<i>For Chained Grate, Add</i>	48.50	
			<i>For No-Hub Side Outlet, Add</i>	76.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	318.00	
22 13 19 13-0046	EA		12" x 12" Can Wash Drain With 4" Bottom Outlet, Nikaloy Top.....	4,689.00	207.38
			<i>For Chained Grate, Add</i>	48.50	
			<i>For No-Hub Side Outlet, Add</i>	76.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	318.00	
22 13 19 13-0047	EA		12" x 12" Can Wash Drain With 3" Bottom Outlet, Bronze Top.....	4,538.24	188.07
			<i>For Chained Grate, Add</i>	48.50	
			<i>For No-Hub Side Outlet, Add</i>	76.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	318.00	
22 13 19 13-0048	EA		12" x 12" Can Wash Drain With 4" Bottom Outlet, Bronze Top.....	4,576.74	207.38
			<i>For Chained Grate, Add</i>	48.50	
			<i>For No-Hub Side Outlet, Add</i>	76.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	318.00	
22 13 19 13-0049	EA		5" x 9" Floor Drain With 2" Bottom Outlet, Nikaloy Top.....	1,588.75	169.74
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Rough Bronze Body, Add</i>	120.94	
22 13 19 13-0050	EA		5" x 9" Floor Drain With 3" Bottom Outlet, Nikaloy Top.....	1,625.35	188.07
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Rough Bronze Body, Add</i>	120.94	
22 13 19 13-0051	EA		5" x 9" Floor Drain With 4" Bottom Outlet, Nikaloy Top.....	1,663.85	207.38
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Rough Bronze Body, Add</i>	120.94	
22 13 19 13-0052	EA		5" x 13" Floor Drain With 2" Bottom Outlet, Nikaloy Top.....	2,034.90	169.74
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
			<i>For Rough Bronze Body, Add</i>	120.94	

22	Plumbing
22 10	Plumbing Piping
22 13	Facility Sanitary Sewerage



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0053 EA 5" x 13" Floor Drain With 3" Bottom Outlet, Nikaloy Top.....	2,071.50	188.07
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
22 13 19 13-0054 EA 5" x 13" Floor Drain With 4" Bottom Outlet, Nikaloy Top.....	2,110.00	207.38
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
22 13 19 13-0055 EA 5" x 16-3/4" Floor Drain With 2" Bottom Outlet, Nikaloy Top.....	2,138.52	169.74
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
22 13 19 13-0056 EA 5" x 16-5/8" Floor Drain With 3" Bottom Outlet, Nikaloy Top.....	2,175.12	188.07
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
22 13 19 13-0057 EA 5" x 16-3/4" Floor Drain With 4" Bottom Outlet, Nikaloy Top.....	2,213.62	207.38
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
22 13 19 13-0058 EA 5" x 21" Floor Drain With 2" Bottom Outlet, Nikaloy Top.....	2,941.58	169.74
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
22 13 19 13-0059 EA 5" x 21" Floor Drain With 3" Bottom Outlet, Nikaloy Top.....	2,978.18	188.07
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
22 13 19 13-0060 EA 5" x 21" Floor Drain With 4" Bottom Outlet, Nikaloy Top.....	3,016.68	207.38
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
22 13 19 13-0061 EA 5" x 9" Floor Drain With 2" Bottom Outlet, Bronze Top.....	1,496.65	169.74
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
22 13 19 13-0062 EA 5" x 9" Floor Drain With 3" Bottom Outlet, Bronze Top.....	1,533.25	188.07
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
22 13 19 13-0063 EA 5" x 9" Floor Drain With 4" Bottom Outlet, Bronze Top.....	1,571.75	207.38
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
22 13 19 13-0064 EA 5" x 13" Floor Drain With 2" Bottom Outlet, Bronze Top.....	1,876.59	169.74
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
22 13 19 13-0065 EA 5" x 13" Floor Drain With 3" Bottom Outlet, Bronze Top.....	1,913.19	188.07
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
22 13 19 13-0066 EA 5" x 13" Floor Drain With 4" Bottom Outlet, Bronze Top.....	1,951.69	207.38
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
22 13 19 13-0067 EA 5" x 16-3/4" Floor Drain With 2" Bottom Outlet, Bronze Top.....	1,980.21	169.74
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
22 13 19 13-0068 EA 5" x 16-5/8" Floor Drain With 3" Bottom Outlet, Bronze Top.....	2,016.81	188.07
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
22 13 19 13-0069 EA 5" x 16-3/4" Floor Drain With 4" Bottom Outlet, Bronze Top.....	2,055.31	207.38
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
22 13 19 13-0070 EA 5" x 21" Floor Drain With 2" Bottom Outlet, Bronze Top.....	2,633.59	169.74
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
22 13 19 13-0071 EA 5" x 21" Floor Drain With 3" Bottom Outlet, Bronze Top.....	2,670.19	188.07
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
22 13 19 13-0072 EA 5" x 21" Floor Drain With 4" Bottom Outlet, Bronze Top.....	2,708.69	207.38
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	

22 13 19 13-0073 Funnel Type Floor Drains (22 13 19 13)



Plumbing	22	22
Plumbing Piping	22 10	
Facility Sanitary Sewerage	22 13	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0074	EA		7" Diameter Floor Drain With 4" Round Funnel With 1-1/2" Outlet, Bronze Top.....	1,497.70	151.55
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Satin Finish Bronze Top, Deduct</i>	-19.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0075	EA		7" Diameter Floor Drain With 4" Round Funnel With 2" Outlet, Bronze Top.....	1,534.07	169.74
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Satin Finish Bronze Top, Deduct</i>	-19.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0076	EA		7" Diameter Floor Drain With 4" Round Funnel With 3" Outlet, Bronze Top.....	1,570.26	187.93
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Satin Finish Bronze Top, Deduct</i>	-19.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0077	EA		7" Diameter Floor Drain With 4" Round Funnel With 4" Outlet, Bronze Top.....	1,609.17	207.38
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Satin Finish Bronze Top, Deduct</i>	-19.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0078	EA		7" Diameter Floor Drain With 9" x 3-1/2" Oval Funnel With 2" Outlet, Nikaloy Top.....	2,181.69	169.74
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Satin Finish Bronze Top, Deduct</i>	-19.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0079	EA		7" Diameter Floor Drain With 9" x 3-1/2" Oval Funnel With 3" Outlet, Nikaloy Top.....	2,217.88	187.93
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Satin Finish Bronze Top, Deduct</i>	-19.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0080	EA		7" Diameter Floor Drain With 9" x 3-1/2" Oval Funnel With 4" Outlet, Nikaloy Top.....	2,256.79	207.38
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Satin Finish Bronze Top, Deduct</i>	-19.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0081	EA		7" Diameter Floor Drain With 9" x 3-1/2" Oval Funnel With 2" Outlet, Bronze Top.....	2,069.44	169.74
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Satin Finish Bronze Top, Deduct</i>	-19.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0082	EA		7" Diameter Floor Drain With 9" x 3-1/2" Oval Funnel With 3" Outlet, Bronze Top.....	2,105.63	187.93
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Satin Finish Bronze Top, Deduct</i>	-19.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0083	EA		7" Diameter Floor Drain With 9" x 3-1/2" Oval Funnel With 4" Outlet, Bronze Top.....	2,144.54	207.38
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Satin Finish Bronze Top, Deduct</i>	-19.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0084			Floor Drain With Sediment Bucket Bottom Outlet <small>(22 13 19 13)</small>		
22 13 19 13-0085	EA		12-5/8" Round Floor Drain With Sediment Bucket, 2" Bottom Outlet, Satin Bronze Top, Without Trap.....	3,143.98	151.55
			<i>For Primer Tap, Add</i>	33.50	
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	247.00	
22 13 19 13-0086	EA		12-5/8" Round Floor Drain With Sediment Bucket, 3" Bottom Outlet, Satin Bronze Top, Without Trap.....	3,180.48	169.74
			<i>For Primer Tap, Add</i>	33.50	
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	247.00	
22 13 19 13-0087	EA		12-5/8" Round Floor Drain With Sediment Bucket, 4" Bottom Outlet, Satin Bronze Top, Without Trap.....	3,216.67	187.93
			<i>For Primer Tap, Add</i>	33.50	
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	247.00	
22 13 19 13-0088	EA		12-5/8" Round Floor Drain With Sediment Bucket, 5" Bottom Outlet, Satin Bronze Top, Without Trap.....	3,255.58	207.38
			<i>For Primer Tap, Add</i>	33.50	
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	247.00	
22 13 19 13-0089	EA		12-5/8" Round Floor Drain With Sediment Bucket, 6" Bottom Outlet, Satin Bronze Top, Without Trap.....	3,295.71	227.40
			<i>For Primer Tap, Add</i>	33.50	
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	247.00	
22 13 19 13-0090	EA		12" x 12" Floor Drain With Sediment Bucket, 2" Bottom Outlet, Nikaloy Top, Heavy Duty Loose-Set Cast Iron Grate.....	3,399.24	169.74
			<i>For Vandal Proof Screws, Add</i>	29.50	
			<i>For Primer Tap, Add</i>	31.00	
			<i>For Aluminum Bucket, Add</i>	77.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	273.75	
22 13 19 13-0091	EA		12" x 12" Floor Drain With Sediment Bucket, 3" Bottom Outlet, Nikaloy Top, Heavy Duty Loose-Set Cast Iron Grate.....	3,435.84	188.07
			<i>For Vandal Proof Screws, Add</i>	29.50	
			<i>For Primer Tap, Add</i>	31.00	
			<i>For Aluminum Bucket, Add</i>	77.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	273.75	
22 13 19 13-0092	EA		12" x 12" Floor Drain With Sediment Bucket, 4" Bottom Outlet, Nikaloy Top, Heavy Duty Loose-Set Cast Iron Grate.....	3,474.34	207.38
			<i>For Vandal Proof Screws, Add</i>	29.50	
			<i>For Primer Tap, Add</i>	31.00	
			<i>For Aluminum Bucket, Add</i>	77.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	273.75	

22 Plumbing**22 10 Plumbing Piping****22 13 Facility Sanitary Sewerage**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0093 EA 12" x 12" Floor Drain With Sediment Bucket, 6" Bottom Outlet, Nikaloy Top, Heavy Duty Loose-Set Cast Iron Grate.....	3,514.47	227.40
For Vandal Proof Screws, Add	29.50	
For Primer Tap, Add	31.00	
For Aluminum Bucket, Add	77.50	
For Galvanized Cast Iron Parts, Add	273.75	
22 13 19 13-0094 EA 12" x 12" Floor Drain With Sediment Bucket, 2" Bottom Outlet, Cast Iron Top, Heavy Duty Loose-Set Cast Iron Grate.....	2,101.10	169.74
For Vandal Proof Screws, Add	29.50	
For Primer Tap, Add	31.00	
For Aluminum Bucket, Add	77.50	
For Galvanized Cast Iron Parts, Add	273.75	
22 13 19 13-0095 EA 12" x 12" Floor Drain With Sediment Bucket, 3" Bottom Outlet, Cast Iron Top, Heavy Duty Loose-Set Cast Iron Grate.....	2,137.70	188.07
For Vandal Proof Screws, Add	29.50	
For Primer Tap, Add	31.00	
For Aluminum Bucket, Add	77.50	
For Galvanized Cast Iron Parts, Add	273.75	
22 13 19 13-0096 EA 12" x 12" Floor Drain With Sediment Bucket, 4" Bottom Outlet, Cast Iron Top, Heavy Duty Loose-Set Cast Iron Grate.....	2,176.20	207.38
For Vandal Proof Screws, Add	29.50	
For Primer Tap, Add	31.00	
For Aluminum Bucket, Add	77.50	
For Galvanized Cast Iron Parts, Add	273.75	
22 13 19 13-0097 EA 12" x 12" Floor Drain With Sediment Bucket, 6" Bottom Outlet, Cast Iron Top, Heavy Duty Loose-Set Cast Iron Grate.....	2,216.33	227.40
For Vandal Proof Screws, Add	29.50	
For Primer Tap, Add	31.00	
For Aluminum Bucket, Add	77.50	
For Galvanized Cast Iron Parts, Add	273.75	
22 13 19 13-0098 EA 12" x 12" Floor Drain With Sediment Bucket, 2" Bottom Outlet, Bronze Top, Heavy Duty Loose-Set Cast Iron Grate.....	3,174.72	169.74
For Vandal Proof Screws, Add	29.50	
For Primer Tap, Add	31.00	
For Aluminum Bucket, Add	77.50	
For Galvanized Cast Iron Parts, Add	273.75	
22 13 19 13-0099 EA 12" x 12" Floor Drain With Sediment Bucket, 3" Bottom Outlet, Bronze Top, Heavy Duty Loose-Set Cast Iron Grate.....	3,211.32	188.07
For Vandal Proof Screws, Add	29.50	
For Primer Tap, Add	31.00	
For Aluminum Bucket, Add	77.50	
For Galvanized Cast Iron Parts, Add	273.75	
22 13 19 13-0100 EA 12" x 12" Floor Drain With Sediment Bucket, 4" Bottom Outlet, Bronze Top, Heavy Duty Loose-Set Cast Iron Grate.....	3,249.82	207.38
For Vandal Proof Screws, Add	29.50	
For Primer Tap, Add	31.00	
For Aluminum Bucket, Add	77.50	
For Galvanized Cast Iron Parts, Add	273.75	
22 13 19 13-0101 EA 12" x 12" Floor Drain With Sediment Bucket, 6" Bottom Outlet, Bronze Top, Heavy Duty Loose-Set Cast Iron Grate.....	3,289.95	227.40
For Vandal Proof Screws, Add	29.50	
For Primer Tap, Add	31.00	
For Aluminum Bucket, Add	77.50	
For Galvanized Cast Iron Parts, Add	273.75	
22 13 19 13-0102 Other Drains (22 13 19 13)		
22 13 19 13-0103 Shower Drains (22 13 19 13-0102)		
22 13 19 13-0104 EA 4-1/4" Stainless Steel Shower Drain Strainer.....	56.76	15.31
Note: Includes two 2-5/8" screws.		
22 13 19 13-0105 EA 4-1/4" Brass Shower Drain Strainer.....	62.67	15.31
Note: Includes two 2-5/8" screws.		
22 13 19 13-0106 EA 4" Brass Shower Drain For Polyvinyl Chloride (PVC) Pipe.....	132.33	30.63
Note: Fits over 2" polyvinyl chloride (PVC) pipe or inside 3" polyvinyl chloride (PVC) pipe.		
22 13 19 13-0107 EA 4" Chrome Finish, Threaded Brass Shower Drain And Gasket.....	166.29	30.63
Note: For 2" pipe. Kohler K-9132.		
22 13 19 13-0108 Acid Resistant Floor Drains (22 13 19 13-0102)		
22 13 19 13-0109 EA 9" Diameter Floor Drain With 2" Bottom Outlet, Acid Resistant Top.....	1,509.08	151.55
For Galvanized Cast Iron Parts, Add	87.50	
For Primer Tap, Add	33.50	
For Vandal Proof Screws, Add	30.50	
22 13 19 13-0110 EA 9" Diameter Floor Drain With 3" Bottom Outlet, Acid Resistant Top.....	1,545.58	169.74
For Galvanized Cast Iron Parts, Add	87.50	
For Primer Tap, Add	33.50	
For Vandal Proof Screws, Add	30.50	
22 13 19 13-0111 EA 9" Diameter Floor Drain With 4" Bottom Outlet, Acid Resistant Top.....	1,581.77	187.93
For Galvanized Cast Iron Parts, Add	87.50	
For Primer Tap, Add	33.50	
For Vandal Proof Screws, Add	30.50	
22 13 19 13-0112 Rotary And Lever Drains (22 13 19 13-0102)		



	Plumbing	22
	Plumbing Piping	22 10
	Facility Sanitary Sewerage	22 13

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0113	EA		Lever Drain, 1-1/2" Drain, 3" Sink Opening.....	314.47	102.21
22 13 19 13-0114	EA		Lever Drain, 2" Drain, 3" Sink Opening.....	335.61	112.79
22 13 19 13-0115	EA		Lever Drain, 1-1/2" Drain, 3-1/2" Sink Opening	314.47	102.21
22 13 19 13-0116	EA		Lever Drain, 2" Drain, 3-1/2" Sink Opening	335.61	112.79
22 13 19 13-0117	EA		Twist Drain, 1-1/2" Drain, 3" Sink Opening	314.47	102.21
22 13 19 13-0118	EA		Twist Drain, 2" Drain, 3" Sink Opening	335.61	112.79
22 13 19 13-0119	EA		Twist Drain, 1-1/2" Drain, 3-1/2" Sink Opening	314.47	102.21
22 13 19 13-0120	EA		Twist Drain, 2" Drain, 3-1/2" Sink Opening	335.61	112.79
22 13 19 13-0121	EA		Rotary Twist Drain, 1-1/2" To 2" Drain, 3-1/2" Sink Opening (Fisher 16100).....	420.51	112.79
22 13 19 13-0122			Floor Receptor (22 13 19 13)		
22 13 19 13-0123			9" Diameter Round Shallow Receptor (22 13 19 13-0122)		
			Note: With slotted medium duty grate, aluminum secondary strainer and white acid resisting coated interior and top.		
22 13 19 13-0124	EA		9" Diameter x 3" Shallow Cast Iron Floor Receptor, 2" Drain Connection	1,848.03	169.88
			For Flange With Seepage Holes, Add	58.50	
			For Flange With Seepage Holes And Clamp Collar, Add	97.00	
			For Trap Primer Connection, Add	38.00	
			For Full Grate With 2" (50 mm) Square Center Opening, Add	36.00	
			For Vandal Proof Secured Grate, Add	33.50	
			For White Acid Resistant Bucket, Add	47.00	
			For Stainless Steel Liner For Bucket, Add	62.50	
22 13 19 13-0125	EA		9" Diameter x 3" Shallow Cast Iron Floor Receptor, 3" Drain Connection	1,884.81	188.21
			For Flange With Seepage Holes, Add	58.50	
			For Flange With Seepage Holes And Clamp Collar, Add	97.00	
			For Trap Primer Connection, Add	38.00	
			For Full Grate With 2" (50 mm) Square Center Opening, Add	36.00	
			For Vandal Proof Secured Grate, Add	33.50	
			For White Acid Resistant Bucket, Add	47.00	
			For Stainless Steel Liner For Bucket, Add	62.50	
22 13 19 13-0126	EA		9" Diameter x 3" Shallow Cast Iron Floor Receptor, 4" Drain Connection	1,922.91	207.38
			For Flange With Seepage Holes, Add	58.50	
			For Flange With Seepage Holes And Clamp Collar, Add	97.00	
			For Trap Primer Connection, Add	38.00	
			For Full Grate With 2" (50 mm) Square Center Opening, Add	36.00	
			For Vandal Proof Secured Grate, Add	33.50	
			For White Acid Resistant Bucket, Add	47.00	
			For Stainless Steel Liner For Bucket, Add	62.50	
22 13 19 13-0127			Square Top Floor Receptors (22 13 19 13-0122)		
			Note: With acid resistant coating.		
22 13 19 13-0128	EA		8" x 8" Floor Drain With 1-1/2" Bottom Outlet, Acid Resistant Top	2,168.35	151.55
			For Flange With Seepage Holes, Add	37.50	
			For Flange With Seepage Holes And Clamp Collar, Add	69.00	
			For Trap Primer Connection, Add	39.50	
			For Full Grate With 2" Square Center Opening, Add	36.00	
			For Vandal Proof Secured Grate, Add	15.50	
			For White Acid Resistant Bucket, Add	88.00	
			For Stainless Steel Liner For Bucket, Add	97.00	
22 13 19 13-0129	EA		8" x 8" Floor Drain With 2" Bottom Outlet, Acid Resistant Top	2,204.88	169.88
			For Flange With Seepage Holes, Add	37.50	
			For Flange With Seepage Holes And Clamp Collar, Add	69.00	
			For Trap Primer Connection, Add	39.50	
			For Full Grate With 2" Square Center Opening, Add	36.00	
			For Vandal Proof Secured Grate, Add	15.50	
			For White Acid Resistant Bucket, Add	88.00	
			For Stainless Steel Liner For Bucket, Add	97.00	
22 13 19 13-0130	EA		8" x 8" Floor Drain With 3" Bottom Outlet, Acid Resistant Top	2,240.91	187.93
			For Flange With Seepage Holes, Add	37.50	
			For Flange With Seepage Holes And Clamp Collar, Add	69.00	
			For Trap Primer Connection, Add	39.50	
			For Full Grate With 2" Square Center Opening, Add	36.00	
			For Vandal Proof Secured Grate, Add	15.50	
			For White Acid Resistant Bucket, Add	88.00	
			For Stainless Steel Liner For Bucket, Add	97.00	
22 13 19 13-0131	EA		8" x 8" Floor Drain With 4" Bottom Outlet, Acid Resistant Top	2,279.82	207.38
			For Flange With Seepage Holes, Add	37.50	
			For Flange With Seepage Holes And Clamp Collar, Add	69.00	
			For Trap Primer Connection, Add	39.50	
			For Full Grate With 2" Square Center Opening, Add	36.00	
			For Vandal Proof Secured Grate, Add	15.50	
			For White Acid Resistant Bucket, Add	88.00	
			For Stainless Steel Liner For Bucket, Add	97.00	
22 13 19 13-0132			Floor Drain Accessories (22 13 19 13)		
22 13 19 13-0133	EA		3" Trap Guard Floor Drain Insert (ProVent TG3H).....	119.10	17.62
			Note: Prevents emission of sewer gases.		
22 13 19 13-0134	EA		2" Trap Guard Drain Insert For Cast Iron Or Polyvinyl Chloride (PVC) Pipe (ProVent TG22)	98.14	17.62
			Note: Prevents emission of sewer gases.		
22 13 19 13-0135	EA		3" Trap Guard Drain Insert For Cast Iron Or Polyvinyl Chloride (PVC) Pipe (ProVent TG33)	106.52	17.62
			Note: Prevents emission of sewer gases.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0136 EA 3" Trap Guard Drain Insert For 4" Cast Iron Or Polyvinyl Chloride (PVC) Pipe (ProVent TG34IP).....	127.49	17.62
Note: Prevents emission of sewer gases.		
22 13 19 13-0137 EA 3" Trap Guard Drain Insert For 4" Hub (ProVent TG34TP).....	114.91	17.62
Note: Prevents emission of sewer gases.		
22 13 19 13-0138 EA 2" Quad Close Trap Seal, For Drain Body Or Strainer Throat (JRSmith 2692-02)	161.26	17.62
Note: Prevents emission of sewer gases.		
22 13 19 13-0139 EA 3" Quad Close Trap Seal, For Drain Body Or Strainer Throat (JRSmith 2692-03)	178.13	17.62
Note: Prevents emission of sewer gases.		
22 13 19 13-0140 EA 4" Quad Close Trap Seal, For Drain Body Or Strainer Throat (JRSmith 2692-04)	220.00	17.62
Note: Prevents emission of sewer gases.		
22 13 19 26 Grease Removal Devices (22 13 19)		
22 13 19 26-0001 Manual Cleaning Epoxy Coated Steel Grease Interceptor (22 13 19 26)		
Note: Includes internal air relief, visible double wall trap, removable baffle, gasketed non-skid cover bearing PDI seal of approval and flow control fitting.		
22 13 19 26-0002 Standard Manual Cleaning Epoxy Coated Steel Grease Interceptor (22 13 19 26-0001)		
Note: Josam 60100H/60210A, Smith 8100/8400, Wade 5100, or Zurn Z1173/Z1170 series.		
22 13 19 26-0003 EA 7 GPM, 14 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor	1,361.92	105.74
Note: Josam 60102H.		
<i>For Steel Enclosure Cabinet With Non-Skid Cover, Add</i>	1,369.87	
22 13 19 26-0004 EA 10 GPM, 20 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor	1,586.22	237.91
Note: Josam 60103H.		
<i>For Flange And Clamp Device, Add</i>	418.77	
<i>For Steel Enclosure Cabinet With Non-Skid Cover, Add</i>	1,451.35	
22 13 19 26-0005 EA 15 GPM, 30 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor	2,231.34	264.34
Note: Josam 60104H.		
<i>For Flange And Clamp Device, Add</i>	436.39	
<i>For Steel Enclosure Cabinet With Non-Skid Cover, Add</i>	1,586.26	
22 13 19 26-0006 EA 20 GPM, 40 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor	2,687.42	290.77
Note: Josam 60105H.		
<i>For Flange And Clamp Device, Add</i>	454.01	
<i>For Steel Enclosure Cabinet With Non-Skid Cover, Add</i>	1,715.74	
22 13 19 26-0007 EA 25 GPM, 50 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor	3,006.59	317.21
Note: Josam 60106H.		
<i>For Flange And Clamp Device, Add</i>	502.03	
<i>For Steel Enclosure Cabinet With Non-Skid Cover, Add</i>	1,790.49	
22 13 19 26-0008 EA 35 GPM, 70 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor	3,686.97	370.07
Note: Josam 60107H.		
<i>For Flange And Clamp Device, Add</i>	548.48	
<i>For Steel Enclosure Cabinet With Non-Skid Cover, Add</i>	1,975.84	
22 13 19 26-0009 EA 50 GPM, 100 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor	4,793.23	422.94
Note: Josam 60108H.		
<i>For Flange And Clamp Device, Add</i>	624.69	
<i>For Steel Enclosure Cabinet With Non-Skid Cover, Add</i>	2,114.15	
22 13 19 26-0010 EA 75 GPM, 150 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor	9,326.26	475.81
Note: Josam 60109H.		
<i>For Flange And Clamp Device, Add</i>	861.21	
22 13 19 26-0011 EA 100 GPM, 200 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor	10,524.27	559.45
Note: Josam 60110H.		
<i>For Flange And Clamp Device, Add</i>	980.98	
22 13 19 26-0012 EA 150 GPM, 300 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor	13,028.17	895.13
Note: Josam 60213A.		
<i>For Flange And Clamp Device, Add</i>	1,364.76	
22 13 19 26-0013 EA 200 GPM, 400 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor	18,660.44	1,118.92
Note: Josam 60214A.		
<i>For Flange And Clamp Device, Add</i>	1,643.22	
22 13 19 26-0014 EA 250 GPM, 500 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor	21,775.71	1,342.70
Note: Josam 60215A.		
<i>For Flange And Clamp Device, Add</i>	2,105.38	
22 13 19 26-0015 EA 350 GPM, 700 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor	28,256.87	1,566.48
Note: Josam 60216A.		
<i>For Flange And Clamp Device, Add</i>	2,492.32	
22 13 19 26-0016 EA 500 GPM, 1,000 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor	36,507.56	1,790.27
Note: Josam 60217A.		
<i>For Flange And Clamp Device, Add</i>	2,914.79	
22 13 19 26-0017 Low Profile Manual Cleaning Epoxy Coated Steel Grease Interceptor (22 13 19 26-0001)		
Note: Josam 60110A, Smith 8100, Wade 5100LR, or Zurn Z1171 series.		
22 13 19 26-0018 EA 20 GPM, 40 LB Capacity Low Profile Manual Cleaning Epoxy Coated Steel Grease Interceptor.....	3,834.74	290.77
Note: Josam 60115A.		
22 13 19 26-0019 EA 35 GPM, 70 LB Capacity Low Profile Manual Cleaning Epoxy Coated Steel Grease Interceptor.....	4,932.07	370.07
Note: Josam 60117A.		
22 13 19 26-0020 EA 50 GPM, 100 LB Capacity Low Profile Manual Cleaning Epoxy Coated Steel Grease Interceptor.....	8,084.54	422.94
Note: Smith 8150.		
22 13 19 26-0021 Semi Automatic Cleaning Epoxy Coated Steel Grease Interceptor (22 13 19 26)		
Note: Includes internal air relief, visible double wall trap, removable baffle, gasketed non-skid cover bearing PDI seal of approval, grease recovery cone, flexible hose, grease draw off valve and flow control fitting.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 26-0022 Standard Semi Automatic Cleaning Epoxy Coated Steel Grease Interceptor <small>(22 13 19 26-0021)</small> Note: Josam 60100-SA, Smith 8300GTX, Wade 5100JCX, or Zurn Z1173-TD series.		
22 13 19 26-0023 EA 7 GPM, 14 LB Capacity Semi Automatic Epoxy Coated Steel Grease Interceptor Note: Josam 60102-SA.	3,358.15	105.74
<i>For Steel Enclosure Cabinet With Non-Skid Cover, Add</i>	1,369.87	
22 13 19 26-0024 EA 10 GPM, 20 LB Capacity Semi Automatic Epoxy Coated Steel Grease Interceptor Note: Josam 60103-SA.	3,946.05	237.91
<i>For Steel Enclosure Cabinet With Non-Skid Cover, Add</i>	1,451.35	
22 13 19 26-0025 EA 15 GPM, 30 LB Capacity Semi Automatic Epoxy Coated Steel Grease Interceptor Note: Josam 60104-SA.	4,218.87	264.34
<i>For Steel Enclosure Cabinet With Non-Skid Cover, Add</i>	1,586.26	
22 13 19 26-0026 EA 20 GPM, 40 LB Capacity Semi Automatic Epoxy Coated Steel Grease Interceptor Note: Josam 60105-SA.	5,139.96	290.77
<i>For Steel Enclosure Cabinet With Non-Skid Cover, Add</i>	1,715.74	
22 13 19 26-0027 EA 25 GPM, 50 LB Capacity Semi Automatic Epoxy Coated Steel Grease Interceptor Note: Josam 60106-SA.	6,187.08	317.21
<i>For Steel Enclosure Cabinet With Non-Skid Cover, Add</i>	1,790.49	
22 13 19 26-0028 EA 35 GPM, 70 LB Capacity Semi Automatic Epoxy Coated Steel Grease Interceptor Note: Josam 60107-SA.	6,408.96	370.07
<i>For Steel Enclosure Cabinet With Non-Skid Cover, Add</i>	1,975.84	
22 13 19 26-0029 EA 50 GPM, 100 LB Capacity Semi Automatic Epoxy Coated Steel Grease Interceptor Note: Josam 60108-SA.	7,316.04	422.94
<i>For Steel Enclosure Cabinet With Non-Skid Cover, Add</i>	2,114.15	
22 13 19 26-0030 Low Profile Semi Automatic Cleaning Epoxy Coated Steel Grease Interceptor <small>(22 13 19 26-0021)</small> Note: Josam 60115A-SA, Smith 8100GTX, or Zurn Z1171-TD series.		
22 13 19 26-0031 EA 35 GPM, 70 LB Capacity Low Profile Semi Automatic Epoxy Coated Steel Grease Interceptor Note: Josam 60115A-SA.	8,576.13	370.07
22 13 19 26-0032 Automatic Cleaning Stainless Steel Grease Interceptor <small>(22 13 19 26)</small>		
22 13 19 26-0033 EA 20 GPM, 69 LB Capacity Automatic Cleaning Stainless Steel Grease Interceptor Note: Includes stainless steel screen basket, plastic grease container with lid and control box with digital timer (Low Engineering 20 Greasestopper).	7,366.03	290.77
22 13 19 26-0034 EA 25 GPM, 91 LB Capacity Automatic Cleaning Stainless Steel Grease Interceptor Note: Includes stainless steel screen basket, plastic grease container with lid and control box with digital timer (Low Engineering 25 Greasestopper).	8,550.71	317.21
22 13 19 26-0035 EA 35 GPM, 70 LB Capacity, 110 Volt, Automatic Cleaning Stainless Steel Grease Trap/Removal Device (Guardian GGX35)	7,356.57	370.07
22 13 19 26-0036 Precast Concrete Grease Interceptor <small>(22 13 19 26)</small> Note: Includes two access manholes, cast iron non-skid surface, lift hole, frame and cover for heavy-traffic.		
22 13 19 26-0037 EA 1,000 Gallon Pre-Cast Grease Interceptor	7,115.40	487.92
22 13 19 26-0038 EA 1,250 Gallon Pre-Cast Grease Interceptor	8,146.50	487.92
22 13 19 26-0039 EA 1,500 Gallon Pre-Cast Grease Interceptor	9,245.83	557.80
22 13 19 26-0040 EA 2,000 Gallon Pre-Cast Grease Interceptor	10,509.47	787.76
22 13 19 26-0041 EA 2,500 Gallon Pre-Cast Grease Interceptor	11,819.40	1,059.87
22 13 19 26-0042 EA 4,000 Gallon Pre-Cast Grease Interceptor	17,743.15	1,394.43
22 13 19 26-0043 EA 5,000 Gallon Pre-Cast Grease Interceptor	22,740.29	2,286.65
22 13 19 26-0044 Coated Steel Manual Oil Interceptor <small>(22 13 19 26)</small> Note: Includes internal air relief, and flow control fitting.		
22 13 19 26-0045 EA 10 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	10,284.02	402.74
22 13 19 26-0046 EA 15 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	13,961.02	478.54
22 13 19 26-0047 EA 20 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	16,892.62	588.79
22 13 19 26-0048 EA 25 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	18,345.33	637.79
22 13 19 26-0049 EA 35 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	22,144.25	695.99
22 13 19 26-0050 EA 50 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	29,443.70	765.66
22 13 19 26-0051 EA 75 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	50,104.34	881.13
22 13 19 26-0052 EA 100 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	54,580.34	1,084.14
22 13 19 26-0053 EA 150 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	67,271.53	1,175.08
22 13 19 26-0054 EA 200 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	94,544.09	1,409.81
22 13 19 26-0055 EA 250 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	109,246.79	1,515.54
22 13 19 26-0056 EA 350 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	137,833.84	1,807.37
22 13 19 26-0057 EA 400 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	167,602.53	1,481.00
22 13 19 26-0058 EA 500 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	198,530.36	1,762.26
22 13 19 33 Backwater Valves <small>(22 13 19)</small>		
22 13 19 33-0001 Cast Iron Body Terminal Backwater Valves <small>(22 13 19 33)</small>		
22 13 19 33-0002 EA 2" Cast Iron Body Terminal Backwater Valve	435.69	40.46
22 13 19 33-0003 EA 3" Cast Iron Body Terminal Backwater Valve	451.19	50.89
22 13 19 33-0004 EA 4" Cast Iron Body Terminal Backwater Valve	648.15	67.68
22 13 19 33-0005 EA 6" Cast Iron Body Terminal Backwater Valve	1,693.44	87.32
22 13 19 33-0006 EA 8" Cast Iron Body Terminal Backwater Valve	2,073.91	114.92
22 13 19 33-0007 EA 10" Cast Iron Body Terminal Backwater Valve	5,928.08	141.78



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 33-0008 EA 12" Cast Iron Body Terminal Backwater Valve	6,724.31	183.88
22 13 19 33-0009 Cast Iron Backwater Sewer Line Valve <small>(22 13 19 33)</small>		
Note: Offset type with bronze swing check assembly, threaded bronze cover, and bell and spigot connections.		
22 13 19 33-0010 EA 2" Backwater Sewer Valve, Cast Iron, Offset Type With Bronze Swing Check Assembly	1,091.14	96.47
22 13 19 33-0011 EA 3" Backwater Sewer Valve, Cast Iron, Offset Type With Bronze Swing Check Assembly	1,644.61	117.02
22 13 19 33-0012 EA 4" Backwater Sewer Valve, Cast Iron, Offset Type With Bronze Swing Check Assembly	2,038.37	150.85
22 13 19 33-0013 EA 6" Backwater Sewer Valve, Cast Iron, Offset Type With Bronze Swing Check Assembly	2,810.65	158.64
22 13 19 33-0014 EA 8" Backwater Sewer Valve, Cast Iron, Offset Type With Bronze Swing Check Assembly	3,879.12	188.00
22 13 19 33-0015 Cast Iron, Straight Through Shear Gate, Swing Check Backwater Valve <small>(22 13 19 33)</small>		
Note: Offset type with bronze, manually operated shear gate, non-rising stem, and bell and spigot connections.		
22 13 19 33-0016 EA 3" Cast Iron Body, Straight Through Shear Gate, Swing Check Backwater Valve.....	2,871.50	152.69
22 13 19 33-0017 EA 4" Cast Iron Body, Straight Through Shear Gate, Swing Check Backwater Valve.....	2,947.07	203.02
22 13 19 33-0018 EA 5" Cast Iron Body, Straight Through Shear Gate, Swing Check Backwater Valve.....	4,243.84	234.96
22 13 19 33-0019 EA 6" Cast Iron Body, Straight Through Shear Gate, Swing Check Backwater Valve.....	4,284.69	261.94
22 13 19 33-0020 Polyvinyl Chloride (PVC) Backwater Sewer Line Valve <small>(22 13 19 33)</small>		
Note: Oatey.		
22 13 19 33-0021 EA 3" Polyvinyl Chloride (PVC) Backwater Sewer Valve (Oatey 43900).....	158.25	50.89
22 13 19 33-0022 EA 4" Polyvinyl Chloride (PVC) Backwater Sewer Valve (Oatey 43904).....	191.87	67.68
22 13 19 33-0023 EA 6" Polyvinyl Chloride (PVC) Backwater Sewer Valve (Oatey 43908).....	516.40	87.32
22 13 19 33-0024 Polyvinyl Chloride (PVC) Extendable Backwater Valves <small>(22 13 19 33)</small>		
22 13 19 33-0025 EA 3" Polyvinyl Chloride (PVC) Extendable Backwater Sewer Valve (Rectorseal Clean Check).....	366.91	101.78
Note: Includes valve body, flapper assembly and collar.		
22 13 19 33-0026 EA 4" Polyvinyl Chloride (PVC) Extendable Backwater Sewer Valve (Rectorseal Clean Check).....	488.57	135.34
Note: Includes valve body, flapper assembly and collar.		
22 13 19 33-0027 EA 6" Polyvinyl Chloride (PVC) Extendable Backwater Sewer Valve (Rectorseal Clean Check).....	808.69	174.63
Note: Includes valve body, flapper assembly and collar.		
22 13 19 36 Air-Admittance Valves <small>(22 13 19)</small>		
22 13 19 36-0001 Acrylonitrile Butadiene Styrene (ABS) And Polyvinyl Chloride (PVC) Automatic Drain Vent <small>(22 13 19 36)</small>		
22 13 19 36-0002 EA 1-1/4", 1-1/2" And 2" Acrylonitrile Butadiene Styrene (ABS) Or Polyvinyl Chloride (PVC) Automatic Drain Vent, Mini Vent.....	314.96	19.74
22 13 19 36-0003 EA 2", 3" And 4" Acrylonitrile Butadiene Styrene (ABS) Or Polyvinyl Chloride (PVC) Automatic Drain Vent, Maxi Vent.....	376.90	19.74
22 13 23 Sanitary Waste Interceptors <small>(22 13)</small>		
22 13 23 00-0001 Sediment Bucket Solids Interceptors <small>(22 13 23)</small>		
22 13 23 00-0002 EA 1-1/2" Or 2" Top Access, 15 GPM, Composite With Removable PVC Sediment Bucket Solids Interceptor (Zurn 1180)	1,325.71	199.63
Note: Replaces P-Trap. Recovers all types of solids from precious metal particles, plaster, clay or similar materials.		
22 13 23 00-0003 EA 1-1/2" Or 2" Bottom Access, 15 GPM, Composite With Removable PVC Sediment Bucket Solids Interceptor (Zurn 1184)	1,327.31	199.63
Note: Replaces P-Trap. Recovers all types of solids from precious metal particles, plaster, clay or similar materials.		
22 13 23 00-0004 EA 1-1/2" Or 2" Top Access, Acid Resistant Coated Steel (Inside And Outside), Aluminum Cover, Removable Stainless Steel Sediment Bucket Solids Interceptor (Jay R. Smith 8714 ARI0).....	1,846.84	199.63
Note: On floor mount. Replaces P-Trap. Recovers all types of solids from precious metal particles, plaster, clay or similar materials.		
22 13 23 00-0005 EA 1-1/2" Or 2" Bottom Access, 15 GPM, Acid Resistant Coated Cast Iron, Aluminum Strainer, Removable Stainless Steel Screens, Sediment Bucket Solids Interceptor (Jay R. Smith 8730-ARI0).....	1,846.84	199.63
Note: Replaces P-Trap. Recovers all types of solids from precious metal particles, plaster, clay or similar materials.		
22 13 23 00-0006 EA 1-1/2" Or 2" Top Access, Acid Resistant Coated Cast Aluminum (Inside And Outside) Removable Stainless Steel Screen, Sediment Bucket Solids Interceptor (Josam 61030).....	1,964.46	199.63
Note: Replaces P-Trap. Recovers all types of solids from precious metal particles, plaster, clay or similar materials.		
22 13 23 00-0007 Solid Interceptors, Cast Iron With Internal Deep Seal Trap <small>(22 13 23)</small>		
22 13 23 00-0008 EA 1-1/2" Inlet Cast Iron Solid Interceptor, Painted Enamel.....	359.17	68.29
For Stainless Steel Bucket, Add 175.00		
22 13 23 00-0009 EA 2" Inlet Cast Iron Solid Interceptor, Painted Enamel.....	367.90	72.74
For Stainless Steel Bucket, Add 175.00		
22 13 23 00-0010 Sediment Strainers <small>(22 13 23)</small>		
22 13 23 00-0011 EA 2" Strainer, Pump Suction Side.....	211.54	93.19



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
------------------------------	---------------------------	-------------------------

22 13 29 Sanitary Sewerage Pumps (22 13)

Note: Includes extra set of gaskets, bearings and seals.

22 13 29 13 Wet-Pit-Mounted, Vertical Sewerage Pumps (22 13 29)

22 13 29 13-0001 Vertical Column, Flanged Discharge, Non-Clog Sump Or Drainage Pumps (Crane-DeMing Series 4500) (22 13 29 13)

Note: Mounted on steel support plate. Excludes float and float switch, and sump cover See CSI section 22 13 29 13-0030 for float and float switch, 22 13 29 13-0034 for sump cover.

22 13 29 13-0002 1-1/2" Solids 1,750 RPM Vertical Sump Or Drainage Pumps (22 13 29 13-0001)

22 13 29 13-0003	EA	1/2 HP, Up To 75 GPM Sump Or Drainage Pump, Vertical Non-Clog, 2-1/2" Discharge Pipe, 1,750 RPM	8,271.70	1,691.21
22 13 29 13-0004	EA	3/4 HP, Up To 125 GPM Sump Or Drainage Pump, Vertical Non-Clog, 2-1/2" Discharge Pipe, 1,750 RPM	8,572.22	1,691.21
22 13 29 13-0005	EA	1 HP, Up To 150 GPM Sump Or Drainage Pump, Vertical Non-Clog, 2-1/2" Discharge Pipe, 1,750 RPM	8,872.74	1,691.21
22 13 29 13-0006	EA	1-1/2 HP, Up To 150 GPM Sump Or Drainage Pump, Vertical Non-Clog, 2-1/2" Discharge Pipe, 1,750 RPM	9,159.39	1,691.21

22 13 29 13-0007 2" Solids 1,750 RPM Vertical Sump Or Drainage Pumps (22 13 29 13-0001)

22 13 29 13-0008	EA	3/4 HP, Up To 75 GPM Sump Or Drainage Pump, Vertical Non-Clog, 3" Discharge Pipe, 1,750 RPM	9,103.91	1,691.21
22 13 29 13-0009	EA	1 HP, Up To 100 GPM Sump Or Drainage Pump, Vertical Non-Clog, 3" Discharge Pipe, 1,750 RPM	9,219.49	1,691.21
22 13 29 13-0010	EA	2 HP, Up To 200 GPM Sump Or Drainage Pump, Vertical Non-Clog, 3" Discharge Pipe, 1,750 RPM	9,300.40	1,691.21
22 13 29 13-0011	EA	3 HP, Up To 300 GPM Sump Or Drainage Pump, Vertical Non-Clog, 3" Discharge Pipe, 1,750 RPM	9,855.21	1,691.21
22 13 29 13-0012	EA	5 HP, Up To 400 GPM Sump Or Drainage Pump, Vertical Non-Clog, 3" Discharge Pipe, 1,750 RPM	10,398.46	1,691.21
22 13 29 13-0013	EA	7-1/2 HP, Up To 500 GPM Sump Or Drainage Pump, Vertical Non-Clog, 3" Discharge Pipe, 1,750 RPM	11,230.67	1,691.21
22 13 29 13-0014	EA	10 HP, Up To 600 GPM Sump Or Drainage Pump, Vertical Non-Clog, 3" Discharge Pipe, 1,750 RPM	12,062.88	1,691.21
22 13 29 13-0015	EA	15 HP, Up To 600 GPM Sump Or Drainage Pump, Vertical Non-Clog, 3" Discharge Pipe, 1,750 RPM	14,013.95	2,250.62

22 13 29 13-0016 3" Solids 1,750 RPM Vertical Sump Or Drainage Pumps (22 13 29 13-0001)

22 13 29 13-0017	EA	2 HP, Up To 300 GPM Sump Or Drainage Pump, Vertical Non-Clog, 4" Discharge Pipe, 1,750 RPM	9,683.06	1,691.21
22 13 29 13-0018	EA	3 HP, Up To 400 GPM Sump Or Drainage Pump, Vertical Non-Clog, 4" Discharge Pipe, 1,750 RPM	9,683.06	1,691.21
22 13 29 13-0019	EA	5 HP, Up To 500 GPM Sump Or Drainage Pump, Vertical Non-Clog, 4" Discharge Pipe, 1,750 RPM	9,883.32	1,691.21
22 13 29 13-0020	EA	7-1/2 HP, Up To 700 GPM Sump Or Drainage Pump, Vertical Non-Clog, 4" Discharge Pipe, 1,750 RPM	11,437.15	1,691.21
22 13 29 13-0021	EA	10 HP, Up To 800 GPM Sump Or Drainage Pump, Vertical Non-Clog, 4" Discharge Pipe, 1,750 RPM	11,709.72	1,691.21
22 13 29 13-0022	EA	15 HP, Up To 900 GPM Sump Or Drainage Pump, Vertical Non-Clog, 4" Discharge Pipe, 1,750 RPM	14,109.83	2,250.62
22 13 29 13-0023	EA	20 HP, Up To 900 GPM Sump Or Drainage Pump, Vertical Non-Clog, 4" Discharge Pipe, 1,750 RPM	14,803.34	2,250.62

22 13 29 13-0024 Extra Column Assemblies Addition, 5' Or Less (22 13 29 13-0001)

22 13 29 13-0025	EA	2-1/2" Diameter x 5' Long Extra Column Assembly For vertical sewage pumps.....	544.22	
22 13 29 13-0026	EA	3" Diameter x 5' Long Extra Column Assembly For vertical sewage pumps.....	653.44	
22 13 29 13-0027	EA	4" Diameter x 5' Long Extra Column Assembly For vertical sewage pumps.....	730.37	
22 13 29 13-0028	EA	5" Diameter x 5' Long Extra Column Assembly For vertical sewage pumps.....	743.67	
22 13 29 13-0029	EA	6" Diameter x 5' Long Extra Column Assembly For vertical sewage pumps.....	834.84	

22 13 29 13-0030 Float Switches (22 13 29 13-0001)

Note: Copper coated floats, brass rods and stops and switch brackets.

22 13 29 13-0031	EA	Float Switch Copper Coated Float, Add, General Purpose For vertical sewage pumps	489.13	
22 13 29 13-0032	EA	Float Switch Copper Coated Float, Add, Weather Proof For vertical sewage pumps	513.82	
22 13 29 13-0033	EA	Float Switch Copper Coated Float, Add, Explosion Proof For vertical sewage pumps	525.22	

22 13 29 13-0034 Square Or Round Steel Sump Covers (22 13 29 13-0001)

22 13 29 13-0035	EA	24" Steel Sump Covers, Square Or Round.....	917.25	56.39
22 13 29 13-0036	EA	30" Steel Sump Covers, Square Or Round.....	1,015.59	63.44
22 13 29 13-0037	EA	36" Steel Sump Covers, Square Or Round.....	1,408.45	84.59
22 13 29 13-0038	EA	40" Steel Sump Covers, Square Or Round.....	2,038.48	98.69
22 13 29 13-0039	EA	42" Steel Sump Covers, Square Or Round.....	2,184.52	102.21
22 13 29 13-0040	EA	48" Steel Sump Covers, Square Or Round.....	2,335.17	105.74
22 13 29 13-0041	EA	54" Steel Sump Covers, Square Or Round.....	2,972.93	126.88
22 13 29 13-0042	EA	60" Steel Sump Covers, Square Or Round.....	4,020.05	140.98
22 13 29 13-0043	EA	72" Steel Sump Covers, Square Or Round.....	5,097.82	176.23
22 13 29 13-0044	EA	84" Steel Sump Covers, Square Or Round.....	6,473.43	193.84

22 13 29 16 Submersible Sewerage Pumps (22 13 29)

22 13 29 16-0001 Submersible Sewage Pumps With Vortex Impeller (22 13 29 16)

22 13 29 16-0002 Submersible Single Seal Sewage Pumps With Cast Iron Vortex Impeller (22 13 29 16-0001)

Note: Includes 25' cord.

22 13 29 16-0003	EA	1/2 HP Manual Submersible Single Seal Sewage Pump, 115 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller	1,610.27	102.60
22 13 29 16-0004	EA	1/2 HP Automatic Submersible Single Seal Sewage Pump, 115 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller	1,713.11	102.60
22 13 29 16-0005	EA	1/2 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller	1,681.47	102.60
22 13 29 16-0006	EA	1/2 HP Automatic Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller	1,833.09	102.60



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 29 16-0007	EA	1/2 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller	1,833.09	102.60
22 13 29 16-0008	EA	1 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller	1,949.21	128.24
22 13 29 16-0009	EA	1 HP Automatic Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller	2,083.69	128.24
22 13 29 16-0010	EA	1 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller	2,100.84	128.24
22 13 29 16-0011		Submersible Single Seal Sewage Pumps With Bronze Vortex Impeller (22 13 29 16-0011)		
		Note: Includes 20' cord.		
22 13 29 16-0012	EA	1/2 HP Manual Submersible Single Seal Sewage Pump, 115 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	1,639.27	102.60
22 13 29 16-0013	EA	1/2 HP Automatic Submersible Single Seal Sewage Pump, 115 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	1,786.95	102.60
22 13 29 16-0014	EA	1/2 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	1,717.07	102.60
22 13 29 16-0015	EA	1/2 HP Automatic Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	1,859.46	102.60
22 13 29 16-0016	EA	1/2 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	1,987.36	102.60
22 13 29 16-0017	EA	1 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	1,867.46	128.24
22 13 29 16-0018	EA	1 HP Automatic Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	2,020.41	128.24
22 13 29 16-0019	EA	1 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	2,019.09	128.24
22 13 29 16-0020	EA	1-1/2 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	2,343.71	206.73
22 13 29 16-0021	EA	1-1/2 HP Automatic Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	2,472.92	206.73
22 13 29 16-0022	EA	1-1/2 HP Automatic Submersible Single Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	2,495.34	206.73
22 13 29 16-0023	EA	2 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	2,527.18	252.67
22 13 29 16-0024	EA	2 HP Automatic Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	2,674.85	252.67
22 13 29 16-0025	EA	2 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	2,678.80	252.67
22 13 29 16-0026		Submersible Double Seal Sewage Pumps With Bronze Vortex Impeller (22 13 29 16-0026)		
		Note: Includes 20' cord.		
22 13 29 16-0027	EA	1/2 HP Manual Submersible Double Seal Sewage Pump, 115 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	1,934.62	102.60
22 13 29 16-0028	EA	1/2 HP Manual Submersible Double Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	2,185.13	102.60
22 13 29 16-0029	EA	1 HP Manual Submersible Double Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron And Bronze Impeller	2,148.30	128.24
22 13 29 16-0030	EA	1 HP Manual Submersible Double Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron And Bronze Impeller	2,299.93	128.24
22 13 29 16-0031	EA	1-1/2 HP Manual Submersible Double Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	2,645.65	206.73
22 13 29 16-0032	EA	1-1/2 HP Manual Submersible Double Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	2,797.27	206.73
22 13 29 16-0033	EA	2 HP Manual Submersible Double Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	2,830.43	252.67
22 13 29 16-0034	EA	2 HP Manual Submersible Double Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	2,982.06	252.67
22 13 29 16-0035		Submersible Sewage Pumps With Semi-Open Impeller (22 13 29 16-0035)		
		Note: Includes 25' of cord with pump.		
22 13 29 16-0036	EA	1 HP Manual Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	4,652.60	128.24
22 13 29 16-0037	EA	1.5 HP Manual Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	4,942.31	187.87
22 13 29 16-0038	EA	2 HP Manual Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	5,301.29	229.62
22 13 29 16-0039	EA	3 HP Manual Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	5,553.96	278.33
22 13 29 16-0040	EA	5 HP Manual Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	6,235.50	327.04
22 13 29 16-0041	EA	7.5 HP Manual Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	6,967.23	375.75
22 13 29 16-0042		Submersible Sewage Pumps, Explosion Proof (22 13 29 16-0042)		
		Note: Includes 25' of cord with pump.		
22 13 29 16-0043	EA	1 HP Explosion Proof Manual Sewage Pump, 230 Volt, 1 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	7,403.08	459.53



	MINOR CSI UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 29 16-0044	EA	1 HP Explosion Proof Manual Sewage Pump, 230 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller.....	6,843.71	459.53
22 13 29 16-0045	EA	1 HP Explosion Proof Manual Sewage Pump, 460 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller.....	6,843.71	459.53
22 13 29 16-0046	EA	1.5 HP Explosion Proof Manual Sewage Pump, 230 Volt, 1 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller.....	7,816.64	612.71
22 13 29 16-0047	EA	1.5 HP Explosion Proof Manual Sewage Pump, 230 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller.....	7,257.27	612.71
22 13 29 16-0048	EA	1.5 HP Explosion Proof Manual Sewage Pump, 460 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller.....	7,257.27	612.71
22 13 29 16-0049	EA	2 HP Explosion Proof Manual Sewage Pump, 230 Volt, 1 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller.....	8,345.58	765.89
22 13 29 16-0050	EA	2 HP Explosion Proof Manual Sewage Pump, 230 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller.....	7,786.21	765.89
22 13 29 16-0051	EA	2 HP Explosion Proof Manual Sewage Pump, 460 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller.....	7,786.21	765.89
22 13 29 16-0052	EA	3 HP Explosion Proof Manual Sewage Pump, 230 Volt, 1 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller.....	8,766.15	919.07
22 13 29 16-0053	EA	3 HP Explosion Proof Manual Sewage Pump, 230 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller.....	8,206.78	919.07
22 13 29 16-0054	EA	3 HP Explosion Proof Manual Sewage Pump, 460 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller.....	8,206.78	919.07
22 13 29 16-0055	EA	5 HP Explosion Proof Manual Sewage Pump, 230 Volt, 1 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller.....	9,707.61	1,072.25
22 13 29 16-0056	EA	5 HP Explosion Proof Manual Sewage Pump, 230 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller.....	9,148.24	1,072.25
22 13 29 16-0057	EA	5 HP Explosion Proof Manual Sewage Pump, 460 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller.....	9,148.24	1,072.25
22 13 29 16-0058	EA	7.5 HP Explosion Proof Manual Sewage Pump, 230 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller.....	10,102.54	1,225.42
22 13 29 16-0059	EA	7.5 HP Explosion Proof Manual Sewage Pump, 460 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller.....	10,102.54	1,225.42
22 13 29 16-0060		Submersible Sewage Pump Accessories <small>(22 13 29 16)</small>		
22 13 29 16-0061	EA	Simplex Plug In Pump Control Panel with Alarm Float Only, 115 Volt, 1 Phase, 0-15 Amperes Range, Indoor/Outdoor, NEMA 4X Enclosure For Submersible Sewage Pump..... Note: Includes alarm horn, warning light and alarm float switch.	801.39	115.36
22 13 29 16-0062	EA	Simplex Plug In Pump Control Panel with Alarm Float Only, 230 Volt, 1 Phase, 0-15 Amperes Range, Indoor/Outdoor, NEMA 4X Enclosure For Submersible Sewage Pump..... Note: Includes alarm horn, warning light, and alarm float switch.	826.59	115.36
22 13 29 16-0063	EA	Simplex Control Panel With 3 Floats, 115/208/230 Volt, 1 Phase, 0-20 Amperes Range, Indoor/Outdoor, NEMA 4X Enclosure For Submersible Sewage Pump..... Note: Includes alarm horn, warning light, HOA switch and three 20' control float switches.	1,607.69	153.82
22 13 29 16-0064	EA	Simplex Control Panel 208/230/460 Volt, 3 Phase, 1-23 Amperes Range, Indoor/Outdoor, NEMA 4X Enclosure For Submersible Sewage Pump..... Note: Includes alarm horn and warning light. Control float switches not included.	2,252.68	153.82
22 13 29 16-0065	EA	Simplex Intrinsically Safe Control Panel, 230 Volt, 1 Phase, Indoor/Outdoor 4X Enclosure For Submersible Sewage Pumps With Explosion Proof Motors..... Note: Includes alarm horn and warning light. Control float switches not included.	4,584.10	153.82
22 13 29 16-0066	EA	Simplex Intrinsically Safe Control Panel, 200/230/460 Volt, 3 Phase, Indoor/Outdoor 4X Enclosure For Submersible Sewage Pumps With Explosion Proof Motors..... Note: Includes alarm horn and warning light. Control float switches not included.	4,793.08	153.82
22 13 29 16-0067	EA	Duplex Intrinsically Safe Control Panel, 230 Volt, 1 Phase, Indoor/Outdoor 4X Enclosure For Submersible Sewage Pumps With Explosion Proof Motors..... Note: Includes alarm horn and warning light. Control float switches not included.	7,638.31	192.28
22 13 29 16-0068	EA	Duplex Intrinsically Safe Control Panel, 200/230/460 Volt, 3 Phase, Indoor/Outdoor 4X Enclosure For Submersible Sewage Pumps With Explosion Proof Motors..... Note: Includes alarm horn and warning light. Control float switches not included.	6,449.42	192.28
22 13 29 16-0069	EA	Electrical Alternator Duplex Control Panel with 3 Floats, 115 Volt, 1 Phase, 7-20 Amperes Range, Indoor NEMA 1 Enclosure For Submersible Sewage Pumps..... Note: Includes alarm horn, warning light, and three 20' float switches.	1,789.16	192.28
22 13 29 16-0070	EA	Electrical Alternator Duplex Control Panel With 3 Floats, 115 Volt, 1 Phase, 7-20 Amperes Range, Indoor NEMA 4X Enclosure For Submersible Sewage Pumps..... Note: Includes alarm horn, warning light, and three 20' float switches.	1,965.52	192.28
22 13 29 16-0071	EA	Electrical Alternator Duplex Control Panel With 3 Floats, 115/200/230 Volt, 1 Phase, 0-20 Amperes, Indoor NEMA 1 Enclosure For Submersible Sewage Pumps..... Note: Includes alarm horn, warning light, and three 20' float switches.	1,888.68	192.28
22 13 29 16-0072	EA	Electrical Alternator Duplex Control Panel With 3 Floats, 115/200/230 Volt, 1 Phase, 0-30 Amperes Range, Indoor NEMA 4X Enclosure For Submersible Sewage Pumps..... Note: Includes alarm horn, warning light, and three 20' float switches.	2,047.62	192.28
22 13 29 16-0073	EA	Electrical Alternator Duplex Control Panel, 200/230/460 Volt, 3 Phase, 1-25 Amperes Range, Indoor/Outdoor NEMA 4X Enclosure For Submersible Sewage Pumps..... Note: Includes alarm horn and warning light. Float switches not included..	3,467.26	192.28
22 13 29 16-0074	EA	Alarm System, 115 Volt, Indoor/Outdoor 4X Enclosure..... Note: Includes alarm horn, warning light and 15' tethered float.	658.98	76.91
22 13 29 16-0075	EA	Variable Level (Clamp Type) Float Switch With 15' Cord..... Note: Not for use with Intrinsically Safe Control Systems.	132.34	38.46
22 13 29 16-0076	EA	Variable Level (Clamp Type) Float Switch With 15' Cord For Intrinsically Safe Control Systems Only.....	147.20	38.46
22 13 29 16-0077	EA	Variable Level (Adjustable Weight Type) Float Switch With 25' Cord..... Note: Not for use with Intrinsically Safe Control Systems.	166.20	38.46
22 13 29 16-0078	EA	Variable Level (Adjustable Weight Type) Float Switch With 25' Cord For Intrinsically Safe Control Systems Only.....	163.15	38.46
22 13 29 16-0079	EA	Floater Switch Tree With (3) 15' Floats..... Note: Not for use with Intrinsically Safe Control Systems.	474.01	38.46
22 13 29 16-0080	EA	Floater Switch Tree And (3) Floats With 15' Cords For Intrinsically Safe Control Systems Only.....	483.49	38.46



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 29 16-0081 EA Float Switch Tree And (4) Floats With 15' Cords Note: Not for use with Intrinsically Safe Control Systems.	526.43	38.46
22 13 29 16-0082 EA Float Switch Tree And (4) Floats With 15' Cords For Intrinsically Safe Control Systems Only	548.35	38.46
22 13 29 16-0083 EA Float Switch Tree..... Note: Tree only.	257.97	38.46
22 13 29 16-0084 EA Adjustable Weight For Float Switch.....	71.67	19.22
22 13 29 16-0085 EA Rail And Disconnect System, Stainless Steel, For 2" Horizontal Discharge Note: Lifting equipment not included.	1,336.51	115.36
22 13 29 16-0086 EA Rail And Disconnect System, Stainless Steel, For 3" Horizontal Discharge Note: Lifting equipment not included.	2,087.40	153.82
22 13 29 16-0087 EA Rail And Disconnect System, Stainless Steel, For 4" Horizontal Discharge Note: Lifting equipment not included.	2,723.90	192.28
22 13 29 16-0088 EA Rail And Disconnect System, Stainless Steel Non-Spearking, For 3" Horizontal Discharge	2,635.44	115.36
22 13 29 16-0089 EA Rail And Disconnect System, Stainless Steel Non-Spearking, For 4" Horizontal Discharge	3,703.43	115.36
22 13 29 16-0090 EA Intermediate Guide Rail Bracket, Stainless Steel, For 2" Rail System.....	397.58	76.91
22 13 29 16-0091 EA Intermediate Guide Rail Bracket, Stainless Steel, For 3" Rail Systems.....	688.99	96.14
22 13 29 16-0092 EA Intermediate Guide Rail Bracket, Stainless Steel, For 4" Rail Systems.....	695.98	115.36
22 13 29 16-0093 EA 12' Stainless Steel Lifting Cable.....	196.17	38.46
22 13 29 16-0094 EA Disconnect Fitting For 2" Horizontal Discharge..... Note: Used for shallow systems where guide rails are not necessary.	377.04	38.46

22 13 29 33 Sewerage Pump Basins and Pits (22 13 29)

22 13 29 33-0001 Sewage Sump Pump Basin (22 13 29 33)

22 13 29 33-0002 High Density Polyethylene (HDPE) Basin (22 13 29 33-0001)

22 13 29 33-0003 EA 18" Diameter x 24" High, High Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub.....	156.91	
22 13 29 33-0004 EA 18" Diameter x 30" High, High Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub.....	199.22	
22 13 29 33-0005 EA 24" Diameter x 30" High, High Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub.....	428.42	
22 13 29 33-0006 EA 24" Diameter x 36" High, High Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub.....	594.16	
22 13 29 33-0007 EA 30" Diameter x 36" High, High Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub.....	759.89	
22 13 29 33-0008 EA 36" Diameter x 36" High, High Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub.....	881.54	

22 13 29 33-0009 Fiberglass Basin (22 13 29 33-0001)

22 13 29 33-0010 EA 18" Diameter x 30" High Fiberglass Basin And Lid With Inlet And Hub.....	397.89	
22 13 29 33-0011 EA 24" Diameter x 30" High Fiberglass Basin And Lid With Inlet And Hub.....	794.89	
22 13 29 33-0012 EA 30" Diameter x 36" High Fiberglass Basin And Lid With Inlet And Hub.....	1,417.14	
22 13 29 33-0013 EA 36" Diameter x 36" High Fiberglass Basin And Lid With Inlet And Hub.....	1,902.34	
22 13 29 33-0014 EA 36" Diameter x 48" High Fiberglass Basin And Lid With Inlet And Hub.....	2,190.25	
22 13 29 33-0015 EA 36" Diameter x 60" High Fiberglass Basin And Lid With Inlet And Hub.....	2,313.35	
22 13 29 33-0016 EA 36" Diameter x 72" High Fiberglass Basin And Lid With Inlet And Hub.....	2,715.01	
22 13 29 33-0017 EA 48" Diameter x 48" High Fiberglass Basin And Lid With Inlet And Hub.....	3,151.55	

22 14 Facility Storm Drainage (22 10)

22 14 13 Facility Storm Drainage Piping (22 14)

See CSI section 22 13 16 00-0000 for storm drainage piping.

22 14 26 Facility Storm Drains (22 14)

22 14 26 13 Roof Drains (22 14 26)

22 14 26 13-0001 Cast Iron Roof Drains (22 14 26 13)

22 14 26 13-0002 Cast Iron Roof Drains With Large Polypropylene Dome (22 14 26 13-0001)

Note: Dome free area is 124 square inches.

22 14 26 13-0003 EA 15" Diameter Cast Iron Roof Drain With 2" Outlet, 124 Square Inch Free Area Polypropylene Dome	1,050.79	235.01
For Galvanized Iron Parts, Add	518.00	
For Deck Clamp Assembly, Add	130.00	
For Bronze Dome, Add	448.80	
For Drain Receiver, Add	147.00	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	357.00	
22 14 26 13-0004 EA 15" Diameter Cast Iron Roof Drain With 3" Outlet, 124 Square Inch Free Area Polypropylene Dome	1,168.27	281.96
For Galvanized Iron Parts, Add	518.00	
For Deck Clamp Assembly, Add	130.00	
For Bronze Dome, Add	448.80	
For Drain Receiver, Add	147.00	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	357.00	
22 14 26 13-0005 EA 15" Diameter Cast Iron Roof Drain With 4" Outlet, 124 Square Inch Free Area Polypropylene Dome	1,285.76	352.45
For Galvanized Iron Parts, Add	518.00	
For Deck Clamp Assembly, Add	130.00	
For Bronze Dome, Add	448.80	
For Drain Receiver, Add	147.00	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	357.00	
22 14 26 13-0006 EA 15" Diameter Cast Iron Roof Drain With 5" Outlet, 124 Square Inch Free Area Polypropylene Dome	1,711.49	422.94
For Galvanized Iron Parts, Add	518.00	
For Deck Clamp Assembly, Add	130.00	
For Bronze Dome, Add	448.80	
For Drain Receiver, Add	147.00	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	357.00	



	Plumbing	22
	Plumbing Piping	22 10
	Facility Storm Drainage	22 14

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 14 26 13-0007 EA 15" Diameter Cast Iron Roof Drain With 6" Outlet, 124 Square Inch Free Area Polypropylene Dome	1,770.23	469.89
For Galvanized Iron Parts, Add	518.00	
For Deck Clamp Assembly, Add	130.00	
For Bronze Dome, Add	448.80	
For Drain Receiver, Add	147.00	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	357.00	
22 14 26 13-0008 EA 15" Diameter Cast Iron Roof Drain With 8" Outlet, 124 Square Inch Free Area Polypropylene Dome	2,064.85	493.44
For Galvanized Iron Parts, Add	518.00	
For Deck Clamp Assembly, Add	130.00	
For Bronze Dome, Add	448.80	
For Drain Receiver, Add	147.00	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	357.00	
22 14 26 13-0009 EA 15" Diameter Cast Iron Roof Drain With 10" Outlet, 124 Square Inch Free Area Polypropylene Dome	2,722.82	511.05
For Galvanized Iron Parts, Add	518.00	
For Deck Clamp Assembly, Add	130.00	
For Bronze Dome, Add	448.80	
For Drain Receiver, Add	147.00	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	357.00	
22 14 26 13-0010 Cast Iron Roof Drains With Expansion Joint <small>(22 14 26 13-0001)</small>		
Note: With polypropylene dome. Dome free area is 124 square inches.		
22 14 26 13-0011 EA 15" Diameter Cast Iron Roof Drain With Expansion Joint, 2" Outlet, Polypropylene Dome	1,594.12	235.01
For Galvanized Iron Parts, Add	518.00	
For Deck Clamp Assembly, Add	130.00	
For Drain Receiver, Add	147.00	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	357.00	
22 14 26 13-0012 EA 15" Diameter Cast Iron Roof Drain With Expansion Joint, 3" Outlet, Polypropylene Dome	1,749.56	281.96
For Galvanized Iron Parts, Add	518.00	
For Deck Clamp Assembly, Add	130.00	
For Drain Receiver, Add	147.00	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	357.00	
22 14 26 13-0013 EA 15" Diameter Cast Iron Roof Drain With Expansion Joint, 4" Outlet, Polypropylene Dome	1,940.96	352.45
For Galvanized Iron Parts, Add	518.00	
For Deck Clamp Assembly, Add	130.00	
For Drain Receiver, Add	147.00	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	357.00	
22 14 26 13-0014 EA 15" Diameter Cast Iron Roof Drain With Expansion Joint, 5" Outlet, Polypropylene Dome	2,664.32	422.94
For Galvanized Iron Parts, Add	518.00	
For Deck Clamp Assembly, Add	130.00	
For Drain Receiver, Add	147.00	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	357.00	
22 14 26 13-0015 EA 15" Diameter Cast Iron Roof Drain With Expansion Joint, 6" Outlet, Polypropylene Dome	2,860.89	469.89
For Galvanized Iron Parts, Add	518.00	
For Deck Clamp Assembly, Add	130.00	
For Drain Receiver, Add	147.00	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	357.00	
22 14 26 13-0016 Cast Iron Roof Drains With Flat Bronze Promenade Top <small>(22 14 26 13-0001)</small>		
22 14 26 13-0017 EA 14" x 14" Cast Iron Roof Drain With 2" Outlet, Bronze Promenade Top	2,128.66	235.01
For Galvanized Iron Parts, Add	197.00	
For Deck Clamp Assembly, Add	130.00	
For Drain Receiver, Add	147.00	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	357.00	
22 14 26 13-0018 EA 14" x 14" Cast Iron Roof Drain With 3" Outlet, Bronze Promenade Top	2,246.14	281.96
For Galvanized Iron Parts, Add	197.00	
For Deck Clamp Assembly, Add	130.00	
For Drain Receiver, Add	147.00	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	357.00	
22 14 26 13-0019 EA 14" x 14" Cast Iron Roof Drain With 4" Outlet, Bronze Promenade Top	2,363.63	352.45
For Galvanized Iron Parts, Add	197.00	
For Deck Clamp Assembly, Add	130.00	
For Drain Receiver, Add	147.00	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	357.00	
22 14 26 13-0020 EA 14" x 14" Cast Iron Roof Drain With 5" Outlet, Bronze Promenade Top	2,773.39	422.94
For Galvanized Iron Parts, Add	197.00	
For Deck Clamp Assembly, Add	130.00	
For Drain Receiver, Add	147.00	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	357.00	
22 14 26 13-0021 EA 14" x 14" Cast Iron Roof Drain With 6" Outlet, Bronze Promenade Top	2,832.13	469.89
For Galvanized Iron Parts, Add	197.00	
For Deck Clamp Assembly, Add	130.00	
For Drain Receiver, Add	147.00	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	357.00	
22 14 26 13-0022 Cast Iron Scupper Drain With L-Shaped Bronze Grate <small>(22 14 26 13-0001)</small>		
22 14 26 13-0023 EA Cast Iron Scupper Drain With 2" Outlet, L-Shaped Bronze Grate	1,349.67	94.03
For Vandal Proof Grate, Add	33.00	
For Galvanized Cast Iron Parts, Add	128.00	
22 14 26 13-0024 EA Cast Iron Scupper Drain With 3" Outlet, L-Shaped Bronze Grate	1,396.67	117.44
For Vandal Proof Grate, Add	33.00	
For Galvanized Cast Iron Parts, Add	128.00	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 14 26 13-0025 EA Cast Iron Scupper Drain With 4" Outlet, L-Shaped Bronze Grate.....	1,418.03	128.15
For Vandal Proof Grate, Add	33.00	
For Galvanized Cast Iron Parts, Add	128.00	
For Galvanized Iron Parts, Add	258.00	
22 14 26 13-0026 EA Cast Iron Scupper Drain With 5" Outlet, L-Shaped Bronze Grate.....	1,990.44	169.88
For Vandal Proof Grate, Add	33.00	
For Galvanized Iron Parts, Add	258.00	
22 14 26 13-0027 EA Cast Iron Scupper Drain With 6" Outlet, L-Shaped Bronze Grate.....	2,065.38	207.38
For Vandal Proof Grate, Add	33.00	
For Galvanized Iron Parts, Add	258.00	
22 14 26 13-0028 Cast Iron Roof Drain With Flat Cast Iron Grate (22 14 26 13-0001)		
Note: Grate free area is 27 square inches.		
22 14 26 13-0029 EA 9" x 9" Cast Iron Roof Drain With 2" Outlet, Cast Iron Promenade Top.....	1,142.61	235.01
For Galvanized Iron Parts, Add	144.00	
For Deck Clamp Assembly, Add	80.40	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	93.60	
22 14 26 13-0030 EA 9" x 9" Cast Iron Roof Drain With 3" Outlet, Cast Iron Promenade Top.....	1,260.09	281.96
For Galvanized Iron Parts, Add	144.00	
For Deck Clamp Assembly, Add	80.40	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	93.60	
22 14 26 13-0031 EA 9" x 9" Cast Iron Roof Drain With 4" Outlet, Cast Iron Promenade Top.....	1,377.58	352.45
For Galvanized Iron Parts, Add	144.00	
For Deck Clamp Assembly, Add	80.40	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	93.60	
22 14 26 13-0032 Cast Iron Roof Drains With Large Cast Iron Dome (22 14 26 13-0001)		
22 14 26 13-0033 EA 15" Diameter Cast Iron Roof Drain With 2" Outlet, Cast Iron Dome.....	1,222.45	235.01
For Galvanized Iron Parts, Add	518.00	
For Deck Clamp Assembly, Add	130.00	
For Drain Receiver, Add	147.00	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	357.00	
22 14 26 13-0034 EA 15" Diameter Cast Iron Roof Drain With 3" Outlet, Cast Iron Dome.....	1,339.93	281.96
For Galvanized Iron Parts, Add	518.00	
For Deck Clamp Assembly, Add	130.00	
For Drain Receiver, Add	147.00	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	357.00	
22 14 26 13-0035 EA 15" Diameter Cast Iron Roof Drain With 4" Outlet, Cast Iron Dome.....	1,457.42	352.45
For Galvanized Iron Parts, Add	518.00	
For Deck Clamp Assembly, Add	130.00	
For Drain Receiver, Add	147.00	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	357.00	
22 14 26 13-0036 EA 15" Diameter Cast Iron Roof Drain With 5" Outlet, Cast Iron Dome.....	1,883.15	422.94
For Galvanized Iron Parts, Add	518.00	
For Deck Clamp Assembly, Add	130.00	
For Drain Receiver, Add	147.00	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	357.00	
22 14 26 13-0037 EA 15" Diameter Cast Iron Roof Drain With 6" Outlet, Cast Iron Dome.....	1,941.89	469.89
For Galvanized Iron Parts, Add	518.00	
For Deck Clamp Assembly, Add	130.00	
For Drain Receiver, Add	147.00	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	357.00	
22 14 26 13-0038 EA 15" Diameter Cast Iron Roof Drain With 8" Outlet, Cast Iron Dome.....	2,236.51	493.44
For Galvanized Iron Parts, Add	518.00	
For Deck Clamp Assembly, Add	130.00	
For Drain Receiver, Add	147.00	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	357.00	
22 14 26 13-0039 EA 15" Diameter Cast Iron Roof Drain With 10" Outlet, Cast Iron Dome.....	2,894.48	511.05
For Galvanized Iron Parts, Add	518.00	
For Deck Clamp Assembly, Add	130.00	
For Drain Receiver, Add	147.00	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	357.00	
22 14 26 13-0040 Aluminum Roof Drains (22 14 26 13)		
22 14 26 13-0041 Aluminum Dome Roof Drains (22 14 26 13-0040)		
22 14 26 13-0042 EA 15" Diameter Roof Drain With 2" Outlet, Aluminum Dome.....	1,252.39	235.01
For Galvanized Iron Parts, Add	518.00	
For Deck Clamp Assembly, Add	130.00	
For Drain Receiver, Add	147.00	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	357.00	
22 14 26 13-0043 EA 15" Diameter Roof Drain With 3" Outlet, Aluminum Dome.....	1,369.87	281.96
For Galvanized Iron Parts, Add	518.00	
For Deck Clamp Assembly, Add	130.00	
For Drain Receiver, Add	147.00	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	357.00	
22 14 26 13-0044 EA 15" Diameter Roof Drain With 4" Outlet, Aluminum Dome.....	1,487.36	352.45
For Galvanized Iron Parts, Add	518.00	
For Deck Clamp Assembly, Add	130.00	
For Drain Receiver, Add	147.00	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	357.00	



Plumbing	22	22
Plumbing Piping	22 10	
Facility Storm Drainage	22 14	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 14 26 13-0045 EA 15" Diameter Roof Drain With 6" Outlet, Aluminum Dome.....	1,971.83	469.46
<i>For Galvanized Iron Parts, Add</i>	518.00	
<i>For Deck Clamp Assembly, Add</i>	130.00	
<i>For Drain Receiver, Add</i>	147.00	
<i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	357.00	
22 14 26 13-0046 EA 15" Diameter Roof Drain With 8" Outlet, Aluminum Dome.....	2,266.73	493.44
<i>For Galvanized Iron Parts, Add</i>	518.00	
<i>For Deck Clamp Assembly, Add</i>	130.00	
<i>For Drain Receiver, Add</i>	147.00	
<i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	357.00	
22 14 26 13-0047 EA 15" Diameter Roof Drain With 10" Outlet, Aluminum Dome	2,924.43	511.05
<i>For Galvanized Iron Parts, Add</i>	518.00	
<i>For Deck Clamp Assembly, Add</i>	130.00	
<i>For Drain Receiver, Add</i>	147.00	
<i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	357.00	
22 14 26 13-0048 Retrofit Roof Drains (22 14 26 13)		
22 14 26 13-0049 Retrofit Copolymer Roof Drains With Copolymer Strainer Dome (22 14 26 13-0048)		
22 14 26 13-0050 EA Copolymer Retrofit 3" Roof Drains, With Copolymer Dome.....	975.92	281.96
22 14 26 13-0051 EA Copolymer Retrofit 4" Roof Drains, With Copolymer Dome.....	1,108.36	352.45
22 14 26 13-0052 EA Copolymer Retrofit 5" Roof Drains, With Copolymer Dome.....	1,344.35	422.94
22 14 26 13-0053 EA Copolymer Retrofit 6" Roof Drains, With Copolymer Dome.....	1,462.86	469.46
22 14 26 13-0054 Retrofit Copolymer Roof Drains With Cast Aluminum Strainer Dome (22 14 26 13-0048)		
22 14 26 13-0055 EA Copolymer Retrofit Drain, 3", With Cast Aluminum Dome	1,110.41	281.96
22 14 26 13-0056 EA Copolymer Retrofit Drain, 4", With Cast Aluminum Dome	1,236.86	352.45
22 14 26 13-0057 EA Copolymer Retrofit Drain, 5", With Cast Aluminum Dome	1,481.82	422.94
22 14 26 13-0058 EA Copolymer Retrofit Drain, 6", With Cast Aluminum Dome	1,558.49	469.46
22 14 26 13-0059 Retrofit Roof Aluminum Drains With Cast Aluminum Strainer Dome (22 14 26 13-0048)		
22 14 26 13-0060 EA Aluminum Retrofit 3" Roof Drains, With Cast Aluminum Dome	981.90	281.96
<i>For Copolymer Strainer Dome, Deduct</i>	-24.00	
22 14 26 13-0061 EA Aluminum Retrofit 4" Roof Drains, With Cast Aluminum Dome	1,114.33	352.45
<i>For Copolymer Strainer Dome, Deduct</i>	-24.00	
22 14 26 13-0062 EA Aluminum Retrofit 5" Roof Drains, With Cast Aluminum Dome	1,350.32	422.94
<i>For Copolymer Strainer Dome, Deduct</i>	-24.00	
22 14 26 13-0063 EA Aluminum Retrofit 6" Roof Drains, With Cast Aluminum Dome	1,421.02	469.46
<i>For Copolymer Strainer Dome, Deduct</i>	-24.00	
22 14 26 13-0064 Bronze Downspout Nozzles (22 14 26 13)		
22 14 26 13-0065 EA 2" Outlet, Bronze Roof Drain Downspout Nozzle.....	574.29	140.98
22 14 26 13-0066 EA 3" Outlet, Bronze Roof Drain Downspout Nozzle.....	574.29	140.98
22 14 26 13-0067 EA 4" Outlet, Bronze Roof Drain Downspout Nozzle.....	574.29	140.98
22 14 26 13-0068 EA 5" Outlet, Bronze Roof Drain Downspout Nozzle.....	878.78	176.23
22 14 26 13-0069 EA 6" Outlet, Bronze Roof Drain Downspout Nozzle.....	878.78	176.23
22 14 26 13-0070 EA 8" Outlet, Bronze Roof Drain Downspout Nozzle.....	1,123.82	176.23
22 14 26 16 Facility Area Drains (22 14 26)		
22 14 26 16-0001 Area Drain (22 14 26 16)		
22 14 26 16-0002 EA 12" x 12" Floor Drain With 2" Bottom Outlet, Nikaloy Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	3,399.24	169.74
<i>For Ductile Iron Grate, Add</i>	123.50	
<i>For Vandal Proof Screws, Add</i>	29.50	
<i>For Primer Tap, Add</i>	36.00	
<i>For Galvanized Cast Iron Parts, Add</i>	152.25	
22 14 26 16-0003 EA 12" x 12" Floor Drain With 3" Bottom Outlet, Nikaloy Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	3,435.84	188.07
<i>For Ductile Iron Grate, Add</i>	123.50	
<i>For Vandal Proof Screws, Add</i>	29.50	
<i>For Primer Tap, Add</i>	36.00	
<i>For Galvanized Cast Iron Parts, Add</i>	152.25	
22 14 26 16-0004 EA 12" x 12" Floor Drain With 4" Bottom Outlet, Nikaloy Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	3,474.34	207.38
<i>For Ductile Iron Grate, Add</i>	123.50	
<i>For Vandal Proof Screws, Add</i>	29.50	
<i>For Primer Tap, Add</i>	36.00	
<i>For Galvanized Cast Iron Parts, Add</i>	152.25	
22 14 26 16-0005 EA 12" x 12" Floor Drain With 6" Bottom Outlet, Nikaloy Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	3,514.47	227.40
<i>For Ductile Iron Grate, Add</i>	123.50	
<i>For Vandal Proof Screws, Add</i>	29.50	
<i>For Primer Tap, Add</i>	36.00	
<i>For Galvanized Cast Iron Parts, Add</i>	152.25	

22 Plumbing

22 10 Plumbing Piping

22 14 Facility Storm Drainage



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 14 26	16-0006	EA	12" x 12" Floor Drain With 2" Bottom Outlet, Cast Iron Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	2,101.10	169.74
			<i>For Ductile Iron Grate, Add</i>	123.50	
			<i>For Vandal Proof Screws, Add</i>	29.50	
			<i>For Primer Tap, Add</i>	36.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	152.25	
22 14 26	16-0007	EA	12" x 12" Floor Drain With 3" Bottom Outlet, Cast Iron Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	2,137.70	188.07
			<i>For Ductile Iron Grate, Add</i>	123.50	
			<i>For Vandal Proof Screws, Add</i>	29.50	
			<i>For Primer Tap, Add</i>	36.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	152.25	
22 14 26	16-0008	EA	12" x 12" Floor Drain With 4" Bottom Outlet, Cast Iron Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	2,176.20	207.38
			<i>For Ductile Iron Grate, Add</i>	123.50	
			<i>For Vandal Proof Screws, Add</i>	29.50	
			<i>For Primer Tap, Add</i>	36.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	152.25	
22 14 26	16-0009	EA	12" x 12" Floor Drain With 6" Bottom Outlet, Cast Iron Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	2,216.33	227.40
			<i>For Ductile Iron Grate, Add</i>	123.50	
			<i>For Vandal Proof Screws, Add</i>	29.50	
			<i>For Primer Tap, Add</i>	36.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	152.25	
22 14 26	16-0010	EA	12" x 12" Floor Drain With 2" Bottom Outlet, Bronze Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	3,174.72	169.74
			<i>For Ductile Iron Grate, Add</i>	123.50	
			<i>For Vandal Proof Screws, Add</i>	29.50	
			<i>For Primer Tap, Add</i>	36.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	152.25	
22 14 26	16-0011	EA	12" x 12" Floor Drain With 3" Bottom Outlet, Bronze Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	3,211.32	188.07
			<i>For Ductile Iron Grate, Add</i>	123.50	
			<i>For Vandal Proof Screws, Add</i>	29.50	
			<i>For Primer Tap, Add</i>	36.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	152.25	
22 14 26	16-0012	EA	12" x 12" Floor Drain With 4" Bottom Outlet, Bronze Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	3,249.82	207.38
			<i>For Ductile Iron Grate, Add</i>	123.50	
			<i>For Vandal Proof Screws, Add</i>	29.50	
			<i>For Primer Tap, Add</i>	36.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	152.25	
22 14 26	16-0013	EA	12" x 12" Floor Drain With 6" Bottom Outlet, Bronze Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	3,289.95	227.40
			<i>For Ductile Iron Grate, Add</i>	123.50	
			<i>For Vandal Proof Screws, Add</i>	29.50	
			<i>For Primer Tap, Add</i>	36.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	152.25	
22 14 26	16-0014	EA	16" x 16" Floor Drain With 2" Bottom Outlet, Nikaloy Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	6,830.23	169.74
			<i>For Ductile Iron Grate, Add</i>	123.50	
			<i>For Primer Tap, Add</i>	36.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	258.50	
22 14 26	16-0015	EA	16" x 16" Floor Drain With 3" Bottom Outlet, Nikaloy Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	6,866.83	188.07
			<i>For Ductile Iron Grate, Add</i>	123.50	
			<i>For Primer Tap, Add</i>	36.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	258.50	
22 14 26	16-0016	EA	16" x 16" Floor Drain With 4" Bottom Outlet, Nikaloy Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	6,905.33	207.38
			<i>For Ductile Iron Grate, Add</i>	123.50	
			<i>For Primer Tap, Add</i>	36.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	258.50	
22 14 26	16-0017	EA	16" x 16" Floor Drain With 6" Bottom Outlet, Nikaloy Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	6,945.46	227.40
			<i>For Ductile Iron Grate, Add</i>	123.50	
			<i>For Primer Tap, Add</i>	36.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	258.50	
22 14 26	16-0018	EA	16" x 16" Floor Drain With 2" Bottom Outlet, Cast Iron Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	3,347.43	169.74
			<i>For Ductile Iron Grate, Add</i>	123.50	
			<i>For Primer Tap, Add</i>	36.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	258.50	
22 14 26	16-0019	EA	16" x 16" Floor Drain With 3" Bottom Outlet, Cast Iron Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	3,384.03	188.07
			<i>For Ductile Iron Grate, Add</i>	123.50	
			<i>For Primer Tap, Add</i>	36.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	258.50	
22 14 26	16-0020	EA	16" x 16" Floor Drain With 4" Bottom Outlet, Cast Iron Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	3,422.53	207.38
			<i>For Ductile Iron Grate, Add</i>	123.50	
			<i>For Primer Tap, Add</i>	36.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	258.50	



	Plumbing	22
	Plumbing Piping	22 10
	Facility Storm Drainage	22 14

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 14 26	16-0021	EA	16" x 16" Floor Drain With 6" Bottom Outlet, Cast Iron Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	3,462.66	227.40
			<i>For Ductile Iron Grate, Add</i>	123.50	
			<i>For Primer Tap, Add</i>	36.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	258.50	
22 14 26	16-0022	EA	16" x 16" Floor Drain With 2" Bottom Outlet, Bronze Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	6,476.19	169.74
			<i>For Ductile Iron Grate, Add</i>	123.50	
			<i>For Primer Tap, Add</i>	36.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	258.50	
22 14 26	16-0023	EA	16" x 16" Floor Drain With 3" Bottom Outlet, Bronze Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	6,512.79	188.07
			<i>For Ductile Iron Grate, Add</i>	123.50	
			<i>For Primer Tap, Add</i>	36.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	258.50	
22 14 26	16-0024	EA	16" x 16" Floor Drain With 4" Bottom Outlet, Bronze Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	6,551.29	207.38
			<i>For Ductile Iron Grate, Add</i>	123.50	
			<i>For Primer Tap, Add</i>	36.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	258.50	
22 14 26	16-0025	EA	16" x 16" Floor Drain With 6" Bottom Outlet, Bronze Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	6,591.42	227.40
			<i>For Ductile Iron Grate, Add</i>	123.50	
			<i>For Primer Tap, Add</i>	36.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	258.50	
22 14 26	16-0026	EA	9" Diameter Floor Drain With 2" Bottom Outlet, Nikaloy Top, Medium Duty Anti-Tilting Grate And Perimeter Drainage Slots.....	1,528.31	169.74
			<i>For Galvanized Cast Iron Parts, Add</i>	87.50	
			<i>For Vandal Proof Grate, Add</i>	30.50	
22 14 26	16-0027	EA	9" Diameter Floor Drain With 3" Bottom Outlet, Nikaloy Top, Medium Duty Anti-Tilting Grate And Perimeter Drainage Slots.....	1,564.91	188.07
			<i>For Galvanized Cast Iron Parts, Add</i>	87.50	
			<i>For Vandal Proof Grate, Add</i>	30.50	
22 14 26	16-0028	EA	9" Diameter Floor Drain With 4" Bottom Outlet, Nikaloy Top, Medium Duty Anti-Tilting Grate And Perimeter Drainage Slots.....	1,603.41	207.38
			<i>For Galvanized Cast Iron Parts, Add</i>	87.50	
			<i>For Vandal Proof Grate, Add</i>	30.50	
22 14 26	16-0029	EA	9" Diameter Floor Drain With 2" Bottom Outlet, Cast Iron Top, Medium Duty Anti-Tilting Grate And Perimeter Drainage Slots.....	935.37	169.74
			<i>For Galvanized Cast Iron Parts, Add</i>	87.50	
			<i>For Vandal Proof Grate, Add</i>	30.50	
22 14 26	16-0030	EA	9" Diameter Floor Drain With 3" Bottom Outlet, Cast Iron Top, Medium Duty Anti-Tilting Grate And Perimeter Drainage Slots.....	971.97	188.07
			<i>For Galvanized Cast Iron Parts, Add</i>	87.50	
			<i>For Vandal Proof Grate, Add</i>	30.50	
22 14 26	16-0031	EA	9" Diameter Floor Drain With 4" Bottom Outlet, Cast Iron Top, Medium Duty Anti-Tilting Grate And Perimeter Drainage Slots.....	1,010.47	207.38
			<i>For Galvanized Cast Iron Parts, Add</i>	87.50	
			<i>For Vandal Proof Grate, Add</i>	30.50	
22 14 26	16-0032	EA	9" Diameter Floor Drain With 2" Bottom Outlet, Bronze Top, Medium Duty Anti-Tilting Grate And Perimeter Drainage Slots.....	1,441.96	169.74
			<i>For Galvanized Cast Iron Parts, Add</i>	87.50	
			<i>For Vandal Proof Grate, Add</i>	30.50	
22 14 26	16-0033	EA	9" Diameter Floor Drain With 3" Bottom Outlet, Bronze Top, Medium Duty Anti-Tilting Grate And Perimeter Drainage Slots.....	1,478.56	188.07
			<i>For Galvanized Cast Iron Parts, Add</i>	87.50	
			<i>For Vandal Proof Grate, Add</i>	30.50	
22 14 26	16-0034	EA	9" Diameter Floor Drain With 4" Bottom Outlet, Bronze Top, Medium Duty Anti-Tilting Grate And Perimeter Drainage Slots.....	1,517.06	207.38
			<i>For Galvanized Cast Iron Parts, Add</i>	87.50	
			<i>For Vandal Proof Grate, Add</i>	30.50	
22 14 26	16-0035	EA	12-7/8" x 10-7/8" Floor Drain With 2" Side Outlet, Nikaloy Top, Heavy Duty Hinged Grate And Removable Medium-Deep Sediment Strainer.....	4,559.21	169.74
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Ductile Iron Grate, Add</i>	126.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	307.50	
22 14 26	16-0036	EA	12-7/8" x 10-7/8" Floor Drain With 3" Side Outlet, Nikaloy Top, Heavy Duty Hinged Grate And Removable Medium-Deep Sediment Strainer.....	4,595.81	188.07
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Ductile Iron Grate, Add</i>	126.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	307.50	
22 14 26	16-0037	EA	12-7/8" x 10-7/8" Floor Drain With 4" Side Outlet, Nikaloy Top, Heavy Duty Hinged Grate And Removable Medium-Deep Sediment Strainer.....	4,634.31	207.38
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Ductile Iron Grate, Add</i>	126.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	307.50	
22 14 26	16-0038	EA	12-7/8" x 10-7/8" Floor Drain With 2" Side Outlet, Cast Iron Top, Heavy Duty Hinged Grate And Removable Medium-Deep Sediment Strainer.....	2,973.24	169.74
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Ductile Iron Grate, Add</i>	126.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	307.50	
22 14 26	16-0039	EA	12-7/8" x 10-7/8" Floor Drain With 3" Side Outlet, Cast Iron Top, Heavy Duty Hinged Grate And Removable Medium-Deep Sediment Strainer.....	3,009.84	188.07
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Ductile Iron Grate, Add</i>	126.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	307.50	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 14 26 16-0040	EA		12-7/8" x 10-7/8" Floor Drain With 4" Side Outlet, Cast Iron Top, Heavy Duty Hinged Gate And Removable Medium-Deep Sediment Strainer	3,048.34	207.38
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Ductile Iron Gate, Add</i>	126.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	307.50	
22 14 26 16-0041	EA		12-7/8" x 10-7/8" Floor Drain With 2" Side Outlet, Bronze Top, Heavy Duty Hinged Gate And Removable Medium-Deep Sediment Strainer	4,282.89	169.74
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Ductile Iron Gate, Add</i>	126.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	307.50	
22 14 26 16-0042	EA		12-7/8" x 10-7/8" Floor Drain With 3" Side Outlet, Bronze Top, Heavy Duty Hinged Gate And Removable Medium-Deep Sediment Strainer	4,319.49	188.07
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Ductile Iron Gate, Add</i>	126.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	307.50	
22 14 26 16-0043	EA		12-7/8" x 10-7/8" Floor Drain With 4" Side Outlet, Bronze Top, Heavy Duty Hinged Gate And Removable Medium-Deep Sediment Strainer	4,357.99	207.38
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Ductile Iron Gate, Add</i>	126.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	307.50	

22 14 26 19 Facility Trench Drains (22 14 26)

22 14 26 19-0001	Trench Drain (22 14 26 19)				
			Note: Each section is 39.4" in length.		
22 14 26 19-0002	EA		6" Wide Trench Drain x 9" Outlet Section With 2" Bottom Outlet, Nikaloy Top, Heavy Duty Body Sections, Heavy Duty Loose Set Gate With Perimeter Drainage Slots	1,188.79	169.74
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Gate, Add</i>	66.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	98.25	
22 14 26 19-0003	EA		6" Wide Trench Drain x 9" Outlet Section With 3" Bottom Outlet, Nikaloy Top, Heavy Duty Body Sections, Heavy Duty Loose Set Gate With Perimeter Drainage Slots	1,225.39	188.07
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Gate, Add</i>	66.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	98.25	
22 14 26 19-0004	EA		6" Wide Trench Drain x 9" Outlet Section With 4" Bottom Outlet, Nikaloy Top, Heavy Duty Body Sections, Heavy Duty Loose Set Gate With Perimeter Drainage Slots	1,263.89	207.38
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Gate, Add</i>	66.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	98.25	
22 14 26 19-0005	EA		6" Wide Trench Drain x 9" Outlet Section With 2" Bottom Outlet, Cast Iron Top, Heavy Duty Body Sections, Heavy Duty Loose Set Gate With Perimeter Drainage Slots	750.19	169.74
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Gate, Add</i>	66.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	98.25	
22 14 26 19-0006	EA		6" Wide Trench Drain x 9" Outlet Section With 3" Bottom Outlet, Cast Iron Top, Heavy Duty Body Sections, Heavy Duty Loose Set Gate With Perimeter Drainage Slots	786.79	188.07
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Gate, Add</i>	66.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	98.25	
22 14 26 19-0007	EA		6" Wide Trench Drain x 9" Outlet Section With 4" Bottom Outlet, Cast Iron Top, Heavy Duty Body Sections, Heavy Duty Loose Set Gate With Perimeter Drainage Slots	825.29	207.38
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Gate, Add</i>	66.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	98.25	
22 14 26 19-0008	EA		6" Wide Trench Drain x 9" Outlet Section With 2" Bottom Outlet, Bronze Top, Heavy Duty Body Sections, Heavy Duty Loose Set Gate With Perimeter Drainage Slots	1,129.03	169.74
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Gate, Add</i>	66.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	98.25	
22 14 26 19-0009	EA		6" Wide Trench Drain x 9" Outlet Section With 3" Bottom Outlet, Bronze Top, Heavy Duty Body Sections, Heavy Duty Loose Set Gate With Perimeter Drainage Slots	1,165.63	188.07
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Gate, Add</i>	66.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	98.25	
22 14 26 19-0010	EA		6" Wide Trench Drain x 9" Outlet Section With 4" Bottom Outlet, Bronze Top, Heavy Duty Body Sections, Heavy Duty Loose Set Gate With Perimeter Drainage Slots	1,204.13	207.38
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Gate, Add</i>	66.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	98.25	
22 14 26 19-0011	EA		6" Wide Trench Drain x 15" Extension Section, Nikaloy Top, Heavy Duty Body Sections, Heavy Duty Loose Set Gate With Perimeter Drainage Slots	1,018.31	84.59
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Gate, Add</i>	66.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	98.25	
22 14 26 19-0012	EA		6" Wide Trench Drain x 15" Extension Section, Cast Iron Top, Heavy Duty Body Sections, Heavy Duty Loose Set Gate With Perimeter Drainage Slots	579.71	84.59
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Gate, Add</i>	66.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	98.25	
22 14 26 19-0013	EA		6" Wide Trench Drain x 15" Extension Section, Bronze Top, Heavy Duty Body Sections, Heavy Duty Loose Set Gate With Perimeter Drainage Slots	958.55	84.59
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Gate, Add</i>	66.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	98.25	



	Plumbing 22	
	Plumbing Piping 22 10	22
	Facility Storm Drainage 22 14	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 14 26 19-0014	EA		12" Wide Trench Drain x 15" Outlet Section With 3" Bottom Outlet, Nikaloy Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	1,845.24	169.74
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	181.50	
			<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>	38.50	
			<i>For Sediment Bucket, Add</i>	116.00	
			<i>For Galvanized Sediment Bucket, Add</i>	188.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	131.50	
22 14 26 19-0015	EA		12" Wide Trench Drain x 15" Outlet Section With 4" Bottom Outlet, Nikaloy Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	1,881.84	188.07
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	181.50	
			<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>	38.50	
			<i>For Sediment Bucket, Add</i>	116.00	
			<i>For Galvanized Sediment Bucket, Add</i>	188.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	131.50	
22 14 26 19-0016	EA		12" Wide Trench Drain x 15" Outlet Section With 6" Bottom Outlet, Nikaloy Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	1,920.34	207.38
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	181.50	
			<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>	38.50	
			<i>For Sediment Bucket, Add</i>	116.00	
			<i>For Galvanized Sediment Bucket, Add</i>	188.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	131.50	
22 14 26 19-0017	EA		12" Wide Trench Drain x 15" Outlet Section With 3" Bottom Outlet, Cast Iron Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	1,302.54	169.74
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	181.50	
			<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>	38.50	
			<i>For Sediment Bucket, Add</i>	116.00	
			<i>For Galvanized Sediment Bucket, Add</i>	188.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	131.50	
22 14 26 19-0018	EA		12" Wide Trench Drain x 15" Outlet Section With 4" Bottom Outlet, Cast Iron Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	1,339.14	188.07
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	181.50	
			<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>	38.50	
			<i>For Sediment Bucket, Add</i>	116.00	
			<i>For Galvanized Sediment Bucket, Add</i>	188.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	131.50	
22 14 26 19-0019	EA		12" Wide Trench Drain x 15" Outlet Section With 6" Bottom Outlet, Cast Iron Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	1,377.64	207.38
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	181.50	
			<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>	38.50	
			<i>For Sediment Bucket, Add</i>	116.00	
			<i>For Galvanized Sediment Bucket, Add</i>	188.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	131.50	
22 14 26 19-0020	EA		12" Wide Trench Drain x 15" Outlet Section With 3" Bottom Outlet, Bronze Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	1,771.02	169.74
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	181.50	
			<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>	38.50	
			<i>For Sediment Bucket, Add</i>	116.00	
			<i>For Galvanized Sediment Bucket, Add</i>	188.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	131.50	
22 14 26 19-0021	EA		12" Wide Trench Drain x 15" Outlet Section With 4" Bottom Outlet, Bronze Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	1,807.62	188.07
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	181.50	
			<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>	38.50	
			<i>For Sediment Bucket, Add</i>	116.00	
			<i>For Galvanized Sediment Bucket, Add</i>	188.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	131.50	
22 14 26 19-0022	EA		12" Wide Trench Drain x 15" Outlet Section With 6" Bottom Outlet, Bronze Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	1,846.12	207.38
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	181.50	
			<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>	38.50	
			<i>For Sediment Bucket, Add</i>	116.00	
			<i>For Galvanized Sediment Bucket, Add</i>	188.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	131.50	
22 14 26 19-0023	EA		12" Wide Trench Drain x 15" Outlet Section With 3" Bottom Outlet, Galvanized Top And Body, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	1,556.05	169.74
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	181.50	
			<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>	38.50	
			<i>For Sediment Bucket, Add</i>	116.00	
			<i>For Galvanized Sediment Bucket, Add</i>	188.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	131.50	

22 Plumbing

22 10 Plumbing Piping

22 14 Facility Storm Drainage



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 14 26 19-0024	EA		12" Wide Trench Drain x 15" Outlet Section With 4" Bottom Outlet, Galvanized Top And Body, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots	1,592.65	188.07
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	181.50	
			<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>	38.50	
			<i>For Sediment Bucket, Add</i>	116.00	
			<i>For Galvanized Sediment Bucket, Add</i>	188.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	131.50	
22 14 26 19-0025	EA		12" Wide Trench Drain x 15" Outlet Section With 6" Bottom Outlet, Galvanized Top And Body, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots	1,631.15	207.38
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	181.50	
			<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>	38.50	
			<i>For Sediment Bucket, Add</i>	116.00	
			<i>For Galvanized Sediment Bucket, Add</i>	188.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	131.50	
22 14 26 19-0026	EA		12" Wide Trench Drain x 15" Extension Section, Nikaloy Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	1,674.73	84.59
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	181.50	
			<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>	38.50	
22 14 26 19-0027	EA		12" Wide Trench Drain x 15" Extension Section, Cast Iron Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots	1,132.03	84.59
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	181.50	
			<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>	38.50	
22 14 26 19-0028	EA		12" Wide Trench Drain x 15" Extension Section, Bronze Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	1,600.51	84.59
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	181.50	
			<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>	38.50	
22 14 26 19-0029	EA		12" Wide Trench Drain x 15" Extension Section, Galvanized Top And Body, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots	1,385.54	84.59
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	181.50	
			<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>	38.50	

22 14 29 Sump Pumps (22 14)

See CSI section 22 11 16 00-0000 for pipe extensions into well.

22 14 29 13 Wet-Pit-Mounted, Vertical Sump Pumps (22 14 29)

22 14 29 13-0001 Vertical Mounted Sump Pumps (22 14 29 13)

Note: Supplied with 1750 RPM premium efficient motor with drip cover, float switch assembly, steel support mounting plate and 5' column sections.

22 14 29 13-0002	EA		1 HP Vertical Mounted Cast Iron Sump Pump, 1-1/2" Discharge, Single Stage, 25 GPM 40' Head.....	6,603.44	409.02
			<i>For Explosion Proof Motor, Add</i>	283.84	
22 14 29 13-0003	EA		1-1/2 HP Vertical Mounted Cast Iron Sump Pump, 2" Discharge, Single Stage, 75 GPM 40' Head.....	7,015.56	495.05
			<i>For Explosion Proof Motor, Add</i>	315.55	
22 14 29 13-0004	EA		2 HP Vertical Mounted Cast Iron Sump Pump, 2-1/2" Discharge, Single Stage, 100 GPM 40' Head.....	8,027.64	588.13
			<i>For Explosion Proof Motor, Add</i>	407.65	
22 14 29 13-0005	EA		3 HP Vertical Mounted Cast Iron Sump Pump, 3" Discharge, Single Stage, 150 GPM 40' Head.....	8,615.59	723.53
			<i>For Explosion Proof Motor, Add</i>	462.00	
22 14 29 13-0006	EA		5 HP Vertical Mounted Cast Iron Sump Pump, 3" Discharge, Single Stage, 200 GPM 40' Head.....	9,110.33	784.18
			<i>For Explosion Proof Motor, Add</i>	674.88	
22 14 29 13-0007	EA		10 HP Vertical Mounted Cast Iron Sump Pump, 4" Discharge, Single Stage, 300 GPM 70' Head.....	10,809.49	940.73
			<i>For Explosion Proof Motor, Add</i>	765.47	
22 14 29 13-0008	EA		15 HP Vertical Mounted Cast Iron Sump Pump, 5" Discharge, Single Stage, 500 GPM 70' Head.....	12,575.55	974.38
			<i>For Explosion Proof Motor, Add</i>	1,254.64	
22 14 29 13-0009	EA		20 HP Vertical Mounted Cast Iron Sump Pump, 6" Discharge, Single Stage, 800 GPM 70' Head.....	14,919.14	1,085.51
			<i>For Explosion Proof Motor, Add</i>	1,665.31	
22 14 29 13-0010	EA		30 HP Vertical Mounted Cast Iron Sump Pump, 6" Discharge, Single Stage, 1,000 GPM 70' Head.....	16,139.08	1,265.98
			<i>For Explosion Proof Motor, Add</i>	2,159.01	
22 14 29 13-0011	EA		50 HP Vertical Mounted Cast Iron Sump Pump, 8" Discharge, Single Stage, 1,600 GPM 70' Head.....	21,612.02	1,519.71
			<i>For Explosion Proof Motor, Add</i>	2,812.76	
22 14 29 13-0012	EA		60 HP Vertical Mounted Cast Iron Sump Pump, 8" Discharge, Single Stage, 2,000 GPM 70' Head.....	29,813.48	1,687.97
			<i>For Explosion Proof Motor, Add</i>	4,458.44	

22 14 29 13-0013 Extra Column Assemblies (22 14 29 13)

22 14 29 13-0014	EA		1-1/2" Diameter x 5' Long Extra Column Assembly	1,001.93	
22 14 29 13-0015	EA		2" Diameter x 5' Long Extra Column Assembly	1,096.34	
22 14 29 13-0016	EA		2-1/2" Diameter x 5' Long Extra Column Assembly	1,199.66	
22 14 29 13-0017	EA		3" Diameter x 5' Long Extra Column Assembly	1,440.42	
22 14 29 13-0018	EA		4" Diameter x 5' Long Extra Column Assembly	1,610.01	
22 14 29 13-0019	EA		5" Diameter x 5' Long Extra Column Assembly	1,639.32	
22 14 29 13-0020	EA		6" Diameter x 5' Long Extra Column Assembly	1,840.31	
22 14 29 13-0021	EA		8" Diameter x 5' Long Extra Column Assembly	2,013.73	

22 14 29 13-0022 Support Plate (22 14 29 13)

22 14 29 13-0023	EA		24" Steel Support Plate, Round Or Square.....	917.25	56.39
22 14 29 13-0024	EA		30" Steel Support Plate, Round Or Square.....	1,015.59	63.44
22 14 29 13-0025	EA		36" Steel Support Plate, Round Or Square.....	1,408.45	84.59



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	22 14 29 13-0026	EA		40" Steel Support Plate, Round Or Square.....	2,038.48	98.69
	22 14 29 13-0027	EA		42" Steel Support Plate, Round Or Square.....	2,184.52	102.21
	22 14 29 13-0028	EA		48" Steel Support Plate, Round Or Square.....	2,335.03	105.74
	22 14 29 13-0029	EA		54" Steel Support Plate, Round Or Square.....	2,972.93	126.88
	22 14 29 13-0030	EA		60" Steel Support Plate, Round Or Square.....	4,020.05	140.98
	22 14 29 13-0031	EA		72" Steel Support Plate, Round Or Square.....	5,365.15	176.23
	22 14 29 13-0032	EA		84" Steel Support Plate, Round Or Square.....	6,473.43	193.84
22 14 29 16 Submersible Sump Pumps (22 14 29)						
22 14 29 16-0001 Submersible Sump Pump With Vortex Impeller (22 14 29 16)						
22 14 29 16-0002 Submersible Sump Pump With Cast Iron Vortex Impeller (22 14 29 16-0001)						
	22 14 29 16-0003	EA		1/3 HP Manual Submersible Sump Pump, 115 Volt Or 230 Volt, 1 Phase, 1-1/2" Threaded Discharge, Epoxy-Coated Cast Steel Housing And Impeller.....	584.41	91.88
	22 14 29 16-0004	EA		1/3 HP Automatic Submersible Sump Pump, 115 Volt Or 230 Volt, 1 Phase, 1-1/2" Threaded Discharge, Epoxy-Coated Cast Steel Housing And Impeller.....	642.46	91.88
	22 14 29 16-0005	EA		1/2 HP Manual Submersible Sump Pump, 115 Volt Or 230 Volt, 1 Phase, 1-1/2" Threaded Discharge, Epoxy-Coated Cast Steel Housing And Impeller.....	985.68	97.23
	22 14 29 16-0006	EA		1/2 HP Automatic Submersible Sump Pump, 115 Volt Or 230 Volt, 1 Phase, 1-1/2" Threaded Discharge, Epoxy-Coated Cast Steel Housing And Impeller.....	1,077.54	97.23
	22 14 29 16-0007			Submersible Sump Pump With Bronze Vortex Impeller (22 14 29 16-0001)		
Note: Includes 20' of cord with pump.						
	22 14 29 16-0008	EA		1/2 HP Manual Submersible Sump Pump, 115 Volt Or 230 Volt, 1 Phase, 1-1/2" Threaded or 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller.....	1,626.18	97.23
	22 14 29 16-0009	EA		1/2 HP Automatic Submersible Sump Pump, 115 Volt Or 230 Volt, 1 Phase, 1-1/2" Threaded or 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller.....	1,764.61	97.23
	22 14 29 16-0010	EA		1 HP Manual Submersible Sump Pump, 230 Volt, 1 Phase, 1-1/2" Threaded or 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller.....	1,856.49	107.20
	22 14 29 16-0011	EA		1 HP Automatic Submersible Sump Pump, 230 Volt, 1 Phase, 1-1/2" Threaded or 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller.....	2,004.49	107.20
	22 14 29 16-0012	EA		1-1/2 HP Manual Submersible Sump Pump, 230 Volt, 1 Phase, 1-1/2" Threaded or 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller.....	2,069.56	122.50
	22 14 29 16-0013	EA		1-1/2 HP Automatic Submersible Sump Pump, 230 Volt, 1 Phase, 1-1/2" Threaded or 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller.....	2,215.01	122.50
	22 14 29 16-0014	EA		2 HP Manual Submersible Sump Pump, 230 Volt, 1 Phase, 1-1/2" Threaded or 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller.....	2,229.06	145.47
	22 14 29 16-0015	EA		2 HP Automatic Submersible Sump Pump, 230 Volt, 1 Phase, 1-1/2" Threaded or 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller.....	2,355.38	145.47
	22 14 29 16-0016			Submersible Sump Pump With Semi-Open Impeller (22 14 29 16)		
Note: Includes 20' of cord with pump.						
	22 14 29 16-0017	EA		1/3 HP Manual Submersible Sump Pump, 115 Volt, 1 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller.....	1,305.42	91.88
	22 14 29 16-0018	EA		1/3 HP Manual Submersible Sump Pump, 230 Volt, 1 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller.....	1,346.12	91.88
	22 14 29 16-0019	EA		1/2 HP Manual Submersible Sump Pump, 115 Volt, 1 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller.....	1,670.59	97.23
	22 14 29 16-0020	EA		1/2 HP Manual Submersible Sump Pump, 230 Volt, 1 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller.....	1,699.19	97.23
	22 14 29 16-0021	EA		3/4 HP Manual Submersible Sump Pump, 230 Volt, 1 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller.....	2,030.27	102.60
	22 14 29 16-0022	EA		3/4 HP Manual Submersible Sump Pump, 230 Volt, 3 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller.....	2,030.27	102.60
	22 14 29 16-0023	EA		1 HP Manual Submersible Sump Pump, 230 Volt, 1 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller.....	2,146.80	107.20
	22 14 29 16-0024	EA		1 HP Manual Submersible Sump Pump, 230 Volt, 3 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller.....	2,146.80	107.20
	22 14 29 16-0025	EA		1-1/2 HP Manual Submersible Sump Pump, 230 Volt, 1 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller.....	2,450.17	122.50
	22 14 29 16-0026	EA		1-1/2 HP Manual Submersible Sump Pump, 230 Volt, 3 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller.....	2,450.17	122.50
	22 14 29 16-0027	EA		2 HP Manual Submersible Sump Pump, 230 Volt, 1 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller.....	2,850.29	145.47
	22 14 29 16-0028	EA		2 HP Manual Submersible Sump Pump, 230 Volt, 3 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller.....	2,800.78	145.47
	22 14 29 19			Sump-Pump Basins and Pits (22 14 29)		
See CSI section 22 13 29 33-0000 for basins and pits.						
22 15 General Service Compressed-Air Systems (22 10)						
22 15 13 General Service Compressed-Air Piping (22 15)						
See CSI section 22 11 16 00-0013 for threaded galvanized steel pipe, 23 21 13 23-0001 for threaded black steel pipe.						
	22 15 13 00-0001			Quick Disconnect, Air-Service (22 15 13)		
	22 15 13 00-0002			Combination Steel And Brass (22 15 13 00-0001)		
	22 15 13 00-0003	EA		1/2" Combination Steel And Brass Disconnect Valve, Single Seated With Arm Ball And Bracket.....	69.65	21.44
	22 15 13 00-0004	EA		3/4" Combination Steel And Brass Disconnect Valve, Single Seated With Arm Ball And Bracket.....	77.17	26.03

22 Plumbing**22 10 Plumbing Piping****22 15 General Service Compressed-Air Systems**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 15 13 00-0005			Refrigerated Air Dryers With Ambient Air Filters (22 15 13) Note: 120 Voltage, 1 Phase		
22 15 13 00-0006	EA		3 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters	842.24	122.14
22 15 13 00-0007	EA		5 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters	957.36	125.53
22 15 13 00-0008	EA		7.5 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters	1,120.08	128.92
22 15 13 00-0009	EA		10 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters	1,256.98	135.71
22 15 13 00-0010	EA		15 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters	1,627.55	152.67
22 15 13 00-0011	EA		20 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters	1,840.21	173.71
22 15 13 00-0012	EA		25 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters	2,065.72	196.78
22 15 13 00-0013	EA		30 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters	2,423.64	220.53
22 15 13 00-0014	EA		40 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters	2,810.38	257.85
22 15 13 00-0015	EA		50 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters	3,160.79	275.49
22 15 13 00-0016	EA		60 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters	3,706.98	305.35
22 15 13 00-0017	EA		75 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters	4,259.42	339.27
			<i>For 230 Voltage, Add</i>	1,074.26	
22 15 13 00-0018	EA		85 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters	4,606.51	373.20
			<i>For 230 Voltage, Add</i>	1,158.03	
22 15 13 00-0019	EA		100 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters	4,965.41	413.91
			<i>For 230 Voltage, Add</i>	1,241.81	
22 15 13 00-0020	EA		125 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters	5,366.40	441.05
			<i>For 230 Voltage, Add</i>	1,345.29	
22 15 13 00-0021	EA		175 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters	5,671.36	458.02
			<i>For 230 Voltage, Add</i>	1,426.60	
22 15 13 00-0022	EA		200 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters	9,696.80	474.98
			<i>For 230 Voltage, Add</i>	2,624.05	
22 15 13 00-0023	EA		250 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters	10,412.40	491.94
			<i>For 230 Voltage, Add</i>	2,828.56	
22 15 13 00-0024	EA		300 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters	11,108.30	508.90
			<i>For 230 Voltage, Add</i>	3,027.15	
22 15 13 00-0025	EA		400 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters	13,171.92	542.83
			<i>For 230 Voltage, Add</i>	3,625.88	
22 15 13 00-0026	EA		500 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters	14,966.02	678.55
			<i>For 230 Voltage, Add</i>	4,082.68	
22 15 13 00-0027	EA		600 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters	21,224.72	814.25
			<i>For 230 Voltage, Add</i>	5,878.87	
22 15 13 00-0028	EA		800 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters	28,756.43	949.96
			<i>For 230 Voltage, Add</i>	8,056.95	
22 15 13 00-0029	EA		1,000 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters	32,206.27	1,085.67
			<i>For 230 Voltage, Add</i>	9,010.48	
22 15 13 00-0030			Oil And Water Separator For Air Compressor (22 15 13)		
22 15 13 00-0031	EA		0-60 SCFM Oil/Water Separator	728.13	49.02
22 15 13 00-0032	EA		85 SCFM Oil/Water Separator	972.32	57.45
22 15 13 00-0033	EA		190 SCFM Oil/Water Separator	1,135.47	65.10
22 15 13 00-0034	EA		245 SCFM Oil/Water Separator	1,422.91	76.59
22 15 13 00-0035	EA		320 SCFM Oil/Water Separator	1,691.73	91.90
22 15 13 00-0036	EA		700 SCFM Oil/Water Separator	3,413.55	191.47
22 15 13 00-0037			Heavy Duty Industrial Pressure Regulator (22 15 13)		
22 15 13 00-0038	EA		3/8" Pressure Regulator, Max 300 PSI Input, 2-125 PSI Output	142.21	40.71
22 15 13 00-0039	EA		1/2" Pressure Regulator, Max 300 PSI Input, 2-125 PSI Output	197.27	54.28
22 15 13 00-0040	EA		3/4" Pressure Regulator, Max 300 PSI Input, 2-125 PSI Output	324.28	67.85
22 15 13 00-0041	EA		1" Pressure Regulator, Max 300 PSI Input, 2-125 PSI Output	415.13	101.78
22 15 13 00-0042	EA		1-1/4" Pressure Regulator, Max 300 PSI Input, 2-125 PSI Output	568.21	118.74
22 15 13 00-0043	EA		1-1/2" Pressure Regulator, Max 300 PSI Input, 2-125 PSI Output	602.14	135.71
22 15 13 00-0044			Combination Air System; Filter Regulator Lubricator (22 15 13)		
22 15 13 00-0045	EA		3/8" Filter Regulator Lubricator, Max 150 PSI Input, 150 CFM, 40 Micron Filter	523.51	122.14
22 15 13 00-0046	EA		1/2" Filter Regulator Lubricator, Max 150 PSI Input, 150 CFM, 40 Micron Filter	654.20	162.85
22 15 13 00-0047			Heatless Desiccant Air Dryers (22 15 13)		
22 15 13 00-0048	EA		5 SCFM Heatless Desiccant Air Dryer	2,778.32	122.14
22 15 13 00-0049	EA		10 SCFM Heatless Desiccant Air Dryer	3,334.87	135.71
22 15 13 00-0050	EA		15 SCFM Heatless Desiccant Air Dryer	3,373.51	149.28
22 15 13 00-0051	EA		20 SCFM Heatless Desiccant Air Dryer	3,852.87	169.63
22 15 13 00-0052	EA		30 SCFM Heatless Desiccant Air Dryer	5,292.22	203.56
22 15 13 00-0053	EA		50 SCFM Heatless Desiccant Air Dryer	5,262.02	271.42
22 15 13 00-0054	EA		85 SCFM Heatless Desiccant Air Dryer	7,055.12	339.27
22 15 13 00-0055	EA		100 SCFM Heatless Desiccant Air Dryer	7,510.80	407.13
22 15 13 00-0056	EA		125 SCFM Heatless Desiccant Air Dryer	8,603.16	474.98
22 15 13 00-0057	EA		175 SCFM Heatless Desiccant Air Dryer	9,877.69	542.83
22 15 13 00-0058	EA		200 SCFM Heatless Desiccant Air Dryer	10,628.55	610.68
22 15 13 00-0059	EA		300 SCFM Heatless Desiccant Air Dryer	12,962.05	678.55
22 15 13 00-0060	EA		400 SCFM Heatless Desiccant Air Dryer	14,429.28	814.25
22 15 13 00-0061	EA		500 SCFM Heatless Desiccant Air Dryer	16,681.68	949.96



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 15 13 00-0062 EA 600 SCFM Heatless Desiccant Air Dryer.....	19,242.87	1,085.67
22 15 13 00-0063 Air Cooled Aftercoolers (22 15 13)		
22 15 13 00-0064 EA 20 SCFM Air-Cooled Aftercooler.....	728.15	84.82
22 15 13 00-0065 EA 35 SCFM Air-Cooled Aftercooler.....	977.22	101.78
22 15 13 00-0066 EA 43 SCFM Air-Cooled Aftercooler.....	1,076.86	118.74
22 15 13 00-0067 EA 70 SCFM Air-Cooled Aftercooler.....	1,311.19	135.71
22 15 13 00-0068 EA 125 SCFM Air-Cooled Aftercooler.....	1,808.32	152.67
22 15 13 00-0069 EA 185 SCFM Air-Cooled Aftercooler.....	2,029.51	169.63
22 15 13 00-0070 EA 260 SCFM Air-Cooled Aftercooler.....	3,867.10	203.56
22 15 13 00-0071 EA 365 SCFM Air-Cooled Aftercooler.....	4,055.19	237.49
22 15 13 00-0072 EA 560 SCFM Air-Cooled Aftercooler.....	4,241.97	271.42
22 15 13 00-0073 EA 650 SCFM Air-Cooled Aftercooler.....	4,968.17	305.35
22 15 13 00-0074 EA 750 SCFM Air-Cooled Aftercooler.....	5,434.21	339.27
22 15 13 00-0075 EA 900 SCFM Air-Cooled Aftercooler.....	6,223.49	373.20
22 15 13 00-0076 EA 1,100 SCFM Air-Cooled Aftercooler.....	7,953.65	407.13
22 15 13 00-0077 EA 1,460 SCFM Air-Cooled Aftercooler.....	9,085.24	441.05
22 15 13 00-0078 EA 1,800 SCFM Air-Cooled Aftercooler.....	9,391.28	474.98
22 15 13 00-0079 EA 2,500 SCFM Air-Cooled Aftercooler.....	10,070.18	508.90
22 15 13 00-0080 Compressed Air Coalescing Filters (22 15 13)		
22 15 13 00-0081 1.0 Micron Filter Rated Compressed Air Coalescing Filters (22 15 13 00-0080)		
22 15 13 00-0082 EA 10 SCFM, 3/8", Coalescing Filter, 1.0 Micron Filter Rating.....	263.83	49.78
22 15 13 00-0083 EA 20 SCFM, 3/8", Coalescing Filter, 1.0 Micron Filter Rating.....	309.82	49.78
22 15 13 00-0084 EA 50 SCFM, 1/2", Coalescing Filter, 1.0 Micron Filter Rating.....	339.92	57.45
22 15 13 00-0085 EA 75 SCFM, 3/4", Coalescing Filter, 1.0 Micron Filter Rating.....	391.26	65.87
22 15 13 00-0086 EA 100 SCFM, 3/4", Coalescing Filter, 1.0 Micron Filter Rating.....	454.33	72.76
22 15 13 00-0087 EA 140 SCFM, 1", Coalescing Filter, 1.0 Micron Filter Rating.....	517.81	88.07
22 15 13 00-0088 EA 175 SCFM, 1-1/4" Coalescing Filter, 1.0 Micron Filter Rating.....	634.44	95.73
22 15 13 00-0089 EA 250 SCFM, 1-1/2" Coalescing Filter, 1.0 Micron Filter Rating.....	676.56	114.88
22 15 13 00-0090 EA 280 SCFM, 2" Coalescing Filter, 1.0 Micron Filter Rating.....	871.41	153.18
22 15 13 00-0091 EA 350 SCFM, 2" Coalescing Filter, 1.0 Micron Filter Rating.....	995.12	172.32
22 15 13 00-0092 0.01 Micron Filter Rated Compressed Air Coalescing Filters (22 15 13 00-0080)		
22 15 13 00-0093 EA 16 SCFM, 3/8" Coalescing Filter, 0.01 Micron Filter Rating.....	316.39	49.78
22 15 13 00-0094 EA 30 SCFM, 1/2" Coalescing Filter, 0.01 Micron Filter Rating.....	344.82	57.45
22 15 13 00-0095 EA 60 SCFM, 3/4" Coalescing Filter, 0.01 Micron Filter Rating.....	395.86	65.87
22 15 13 00-0096 EA 100 SCFM, 1" Coalescing Filter, 0.01 Micron Filter Rating.....	463.53	65.10
22 15 13 00-0097 EA 140 SCFM, 1-1/4" Coalescing Filter, 0.01 Micron Filter Rating.....	528.32	88.07
22 15 13 00-0098 EA 180 SCFM, 1-1/4" Coalescing Filter, 0.01 Micron Filter Rating.....	597.19	95.73
22 15 13 00-0099 EA 250 SCFM, 1-1/2" Coalescing Filter, 0.01 Micron Filter Rating.....	688.38	114.88
22 15 13 00-0100 EA 280 SCFM, 2" Coalescing Filter, 0.01 Micron Filter Rating.....	891.13	153.18
22 15 13 00-0101 EA 350 SCFM, 2" Coalescing Filter, 0.01 Micron Filter Rating.....	1,021.40	172.32
22 15 13 00-0102 Compressed Air Storage Tanks (22 15 13)		
22 15 13 00-0103 Horizontal Compressed Air Storage Tanks (22 15 13 00-0102)		
22 15 13 00-0104 EA 12 Gallon Horizontal Compressed Air Storage Tank, ASME.....	447.09	108.57
22 15 13 00-0105 EA 15 Gallon Horizontal Compressed Air Storage Tank, ASME.....	794.69	118.74
22 15 13 00-0106 EA 20 Gallon Horizontal Compressed Air Storage Tank, ASME.....	841.73	124.85
22 15 13 00-0107 EA 30 Gallon Horizontal Compressed Air Storage Tank, ASME.....	957.82	135.71
22 15 13 00-0108 EA 60 Gallon Horizontal Compressed Air Storage Tank, ASME.....	1,252.01	183.20
22 15 13 00-0109 EA 80 Gallon Horizontal Compressed Air Storage Tank, ASME.....	1,506.54	203.56
22 15 13 00-0110 EA 120 Gallon Horizontal Compressed Air Storage Tank, ASME.....	2,240.96	237.49
22 15 13 00-0111 EA 200 Gallon Horizontal Compressed Air Storage Tank, ASME.....	3,318.73	271.42
22 15 13 00-0112 EA 240 Gallon Horizontal Compressed Air Storage Tank, ASME.....	3,696.06	288.38
22 15 13 00-0113 EA 325 Gallon Horizontal Compressed Air Storage Tank, ASME.....	5,312.05	305.35
22 15 13 00-0114 EA 400 Gallon Horizontal Compressed Air Storage Tank, ASME.....	6,985.82	356.24
22 15 13 00-0115 EA 660 Gallon Horizontal Compressed Air Storage Tank, ASME.....	10,024.57	424.09
22 15 13 00-0116 Vertical Compressed Air Storage Tanks (22 15 13 00-0102)		
22 15 13 00-0117 EA 10 Gallon Vertical Compressed Air Storage Tank, ASME.....	739.51	108.57
22 15 13 00-0118 EA 15 Gallon Vertical Compressed Air Storage Tank, ASME.....	777.28	118.74
22 15 13 00-0119 EA 20 Gallon Vertical Compressed Air Storage Tank, ASME.....	841.73	124.85
22 15 13 00-0120 EA 30 Gallon Vertical Compressed Air Storage Tank, ASME.....	992.30	135.71
22 15 13 00-0121 EA 60 Gallon Vertical Compressed Air Storage Tank, ASME.....	1,355.44	183.20
22 15 13 00-0122 EA 80 Gallon Vertical Compressed Air Storage Tank, ASME.....	1,556.35	203.56
22 15 13 00-0123 EA 120 Gallon Vertical Compressed Air Storage Tank, ASME.....	2,132.65	237.49
22 15 13 00-0124 EA 200 Gallon Vertical Compressed Air Storage Tank, ASME.....	3,095.50	271.42
22 15 13 00-0125 EA 240 Gallon Vertical Compressed Air Storage Tank, ASME.....	3,411.52	288.38
22 15 13 00-0126 EA 325 Gallon Vertical Compressed Air Storage Tank, ASME.....	4,615.56	305.35
22 15 13 00-0127 EA 400 Gallon Vertical Compressed Air Storage Tank, ASME.....	5,904.88	356.24
22 15 13 00-0128 EA 500 Gallon Vertical Compressed Air Storage Tank, ASME.....	7,679.15	390.16
22 15 13 00-0129 EA 660 Gallon Vertical Compressed Air Storage Tank, ASME.....	12,705.19	441.05



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

22 15 19 General Service Packaged Air Compressors and Receivers (22 15)

Note: Includes V-belt drive, receiver, motor, starter mounted and wired. Excludes piping, pressure reducing valve station, or air dryer.

22 15 19 13 General Service Packaged Reciprocating Air Compressors (22 15 19)

22 15 19 13-0001

Single Stage Compressor (22 15 19 13)

Note: Includes receiver, reciprocating air cooled, 140 PSIG working pressure, splash lubricated, tank mounted.

22 15 19 13-0002	EA	1/2 HP 1-Stage Air Compressor, 1.5 ACFM Air Cooled With 30 Gallon Receiver, 140 PSIG Working Pressure	3,134.46	481.49
22 15 19 13-0003	EA	3/4 HP 1-Stage Air Compressor, 2.0 ACFM Air Cooled With 30 Gallon Receiver, 140 PSIG Working Pressure	3,293.30	555.73
22 15 19 13-0004	EA	1 HP 1-Stage Air Compressor, 2.5 ACFM Air Cooled With 30 Gallon Receiver, 140 PSIG Working Pressure	3,765.83	656.28
22 15 19 13-0005	EA	2 HP 1-Stage Air Compressor, Air Cooled With 30 Gallon Receiver, 140 PSIG Working Pressure	4,282.10	724.14
22 15 19 13-0006	EA	3 HP 1-Stage Air Compressor, Air Cooled With 30 Gallon Receiver, 140 PSIG Working Pressure	5,195.73	764.85
22 15 19 13-0007	EA	3 HP 1-Stage Air Compressor, Air Cooled With 60 Gallon Receiver, 140 PSIG Working Pressure	5,542.63	792.00
22 15 19 13-0008	EA	5 HP 1-Stage Air Compressor, Air Cooled With 60 Gallon Receiver, 140 PSIG Working Pressure	6,229.60	905.17
22 15 19 13-0009	EA	5 HP 2-Stage Air Compressor, Air Cooled With 80 Gallon Receiver, 140 PSIG Working Pressure	6,677.87	959.45
22 15 19 13-0010	EA	7.5 HP 1-Stage Air Compressor, Air Cooled With 80 Gallon Receiver, 140 PSIG Working Pressure	7,989.52	1,086.21

22 15 19 13-0011

Two Stage Compressor (22 15 19 13)

Note: With receiver, reciprocating air cooled, discharge pressure 80-200 PSIG, receiver capacity as noted, splash lubricated, tank mounted.

22 15 19 13-0012	EA	1-1/2 HP 2-Stage Air Compressor, 60 Gallon Receiver, 5.0 ACFM, 80-200 PSIG Discharge Pressure	5,967.29	846.28
22 15 19 13-0013	EA	2 HP 2-Stage Air Compressor, 60 Gallon Receiver, 7.0 ACFM, 80-200 PSIG Discharge Pressure	6,436.49	995.69
22 15 19 13-0014	EA	3 HP 2-Stage Air Compressor, 60 Gallon Receiver, 12 ACFM, 80-200 PSIG Discharge Pressure	6,743.67	1,086.21
22 15 19 13-0015	EA	5 HP 2-Stage Air Compressor, 80 Gallon Receiver, 15 ACFM, 80-200 PSIG Discharge Pressure	7,772.86	1,448.28
22 15 19 13-0016	EA	5 HP 2-Stage Air Compressor, 120 Gallon Receiver, 16.5 ACFM, 80-200 PSI Max Discharge Pressure	8,340.35	1,448.28
22 15 19 13-0017	EA	7.5 HP 2-Stage Air Compressor, 80 Gallon Receiver, 19.8 ACFM, 80-200 PSIG Discharge Pressure	9,043.69	1,810.35
22 15 19 13-0018	EA	7.5 HP 2-Stage Air Compressor, 120 Gallon Receiver, 25.6 ACFM, 80-200 PSI Max Discharge Pressure	9,558.39	1,810.35
22 15 19 13-0019	EA	10 HP 2-Stage Air Compressor, 80 Gallon Receiver, 35.0 ACFM, 80-200 PSI Max Discharge Pressure	12,235.03	2,239.19
22 15 19 13-0020	EA	10 HP 2-Stage Air Compressor, 120 Gallon Receiver, 38 ACFM, 80-200 PSIG Discharge Pressure	13,158.74	2,307.05
22 15 19 13-0021	EA	15 HP 2-Stage Air Compressor, 120 Gallon Receiver, 50 ACFM, 80-200 PSIG Discharge Pressure	14,207.09	2,696.26
22 15 19 13-0022	EA	20 HP 2-Stage Air Compressor, 120 Gallon Receiver, 70 ACFM, 80-200 PSIG Discharge Pressure	21,064.87	3,052.09
22 15 19 13-0023	EA	25 HP 2-Stage Air Compressor, 120 Gallon Receiver, 84.4 ACFM, 175 PSI Max Discharge Pressure	22,687.54	3,448.76
22 15 19 13-0024	EA	30 HP 2-Stage Air Compressor, 120 Gallon Receiver, 97.2 ACFM, 175 PSI Max Discharge Pressure	25,275.61	3,811.65
22 15 19 13-0025	EA	30 HP 2-Stage Air Compressor, 250 Gallon Receiver, 101 ACFM, 175 PSI Max Discharge Pressure	27,507.59	4,177.38

22 15 19 19 General Service Packaged Rotary-Screw Air Compressors (22 15 19)

22 15 19 19-0001

Rotary Screw Air Compressor, Base Mounted Without Receiver (22 15 19 19)

Note: Oil flooded.

22 15 19 19-0002	EA	3 HP, 8.5 SCFM, Rotary Screw Air Compressor With Enclosure, 150 PSIG Max Discharge Pressure, Lubricated	10,120.88	1,222.36
22 15 19 19-0003	EA	5 HP, 16.6 SCFM, Rotary Screw Air Compressor With Enclosure, 150 PSIG Max Discharge Pressure, Lubricated	11,380.28	1,629.82
22 15 19 19-0004	EA	7.5 HP, 27 SCFM, Rotary Screw Air Compressor With Enclosure, 125 PSIG Max Discharge Pressure, Lubricated	14,574.42	2,043.40
22 15 19 19-0005	EA	10 HP, 37 SCFM, Rotary Screw Air Compressor With Enclosure, 125 PSIG Max Discharge Pressure, Lubricated	16,953.12	2,604.03
22 15 19 19-0006	EA	15 HP, 56 SCFM, Rotary Screw Air Compressor With Enclosure, 125 PSIG Max Discharge Pressure, Lubricated	19,405.54	3,063.56
22 15 19 19-0007	EA	20 HP, 79 SCFM, Rotary Screw Air Compressor With Enclosure, 125 PSIG Max Discharge Pressure, Lubricated	23,468.07	3,446.51
22 15 19 19-0008	EA	25 HP, 114 SCFM, Rotary Screw Air Compressor With Enclosure, 125 PSIG Max Discharge Pressure, Lubricated	25,743.67	3,829.45
22 15 19 19-0009	EA	30 HP, 137 SCFM, Rotary Screw Air Compressor With Enclosure, 125 PSIG Max Discharge Pressure, Lubricated	30,840.92	4,288.99
22 15 19 19-0010	EA	40 HP, 183 SCFM, Rotary Screw Air Compressor With Enclosure, 125 PSIG Max Discharge Pressure, Lubricated	33,863.37	4,595.34
22 15 19 19-0011	EA	50 HP, 214 SCFM, Rotary Screw Air Compressor With Enclosure, 125 PSIG Max Discharge Pressure, Lubricated	37,947.09	4,952.25
22 15 19 19-0012	EA	60 HP, 256 SCFM Rotary Screw Air Compressor With Enclosure, 125 PSIG Max Discharge Pressure, Lubricated	48,980.60	5,361.23
22 15 19 19-0013	EA	75 HP, 320 SCFM Rotary Screw Air Compressor With Enclosure, 125 PSIG Max Discharge Pressure, Lubricated	54,259.81	5,667.59
22 15 19 19-0014	EA	100 HP, 494 SCFM Rotary Screw Air Compressor With Enclosure, 100 PSIG Max Discharge Pressure, Lubricated	86,179.77	6,127.12
22 15 19 19-0015	EA	125 HP, 592 SCFM Rotary Screw Air Compressor With Enclosure, 100 PSIG Max Discharge Pressure, Lubricated	107,200.92	6,624.95
22 15 19 19-0016	EA	150 HP, 695 SCFM Rotary Screw Air Compressor With Enclosure, 100 PSIG Max Discharge Pressure, Lubricated	124,350.39	7,130.44
22 15 19 19-0017	EA	220 HP, 996 SCFM Rotary Screw Air Compressor With Enclosure, 100 PSIG Max Discharge Pressure, Lubricated	161,280.81	7,658.90
22 15 19 19-0018	EA	250 HP, 1,000 SCFM Rotary Screw Air Compressor With Enclosure, 125 PSIG Max Discharge Pressure, Lubricated	183,072.13	8,149.08

22 15 19 19-0019

Rotary Screw Air Compressor, Base Mounted With Receiver (22 15 19 19)

Note: Includes receiver, motor, starter mounted and wired. Excludes piping, pressure reducing valve station, or air dryer.

22 15 19 19-0020	EA	5 HP, 18.5 SCFM, 80 Gallon Receiver, Rotary Screw Air Compressor, 150 PSIG Max Discharge Pressure, Lubricated	12,665.71	1,629.82
22 15 19 19-0021	EA	5 HP, 18.5 SCFM, 120 Gallon Receiver, Rotary Screw Air Compressor, 150 PSIG Max Discharge Pressure, Lubricated	13,425.89	1,629.82
22 15 19 19-0022	EA	7.5 HP, 28 SCFM, 80 Gallon Receiver, Rotary Screw Air Compressor, 125 PSIG Max Discharge Pressure, Lubricated	15,178.86	2,043.40
22 15 19 19-0023	EA	7.5 HP, 28 SCFM, 120 Gallon Receiver, Rotary Screw Air Compressor, 125 PSIG Max Discharge Pressure, Lubricated	16,010.31	2,043.40
22 15 19 19-0024	EA	10 HP, 38 SCFM, 80 Gallon Receiver, Rotary Screw Air Compressor, 125 PSIG Max Discharge Pressure, Lubricated	17,285.70	2,604.03
22 15 19 19-0025	EA	10 HP, 38 SCFM, 120 Gallon Receiver, Rotary Screw Air Compressor, 125 PSIG Max Discharge Pressure, Lubricated	18,164.65	2,604.03



Plumbing	22	22
Plumbing Piping	22 10	
General Service Compressed-Air Systems	22 15	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 15 19 19-0026 EA 15 HP, 55 SCFM, 80 Gallon Receiver, Rotary Screw Air Compressor, 125 PSIG Max Discharge Pressure, Lubricated.....	19,680.05	3,063.56
22 15 19 19-0027 EA 15 HP, 55 SCFM, 120 Gallon Receiver, Rotary Screw Air Compressor, 125 PSIG Max Discharge Pressure, Lubricated.....	20,630.27	3,063.56
22 15 19 19-0028 EA 20 HP, 75 SCFM, 120 Gallon Receiver, Rotary Screw Air Compressor, 125 PSIG Max Discharge Pressure, Lubricated.....	33,477.05	3,446.51
22 15 19 19-0029 EA 25 HP, 102 SCFM, 120 gallon receiver, Rotary Screw Air Compressor, 125 PSIG Max Discharge Pressure, Lubricated.....	36,108.98	3,829.45
22 15 19 19-0030 EA 30 HP, 125 SCFM, 120 Gallon Receiver, Rotary Screw Air Compressor, 125 PSIG Max Discharge Pressure, Lubricated.....	38,503.38	4,288.99

22 30 Plumbing Equipment ⁽²²⁾

22 31 Domestic Water Softeners ^(22 30)

22 31 16 Commercial Domestic Water Softeners ^(22 31)

22 31 16 00-0001 Commercial Water Softeners (Watts Pure Water) ^(22 31 16)

22 31 16 00-0002 Commercial Water Softeners (Watts Pure Water) ^(22 31 16 00-0001)

22 31 16 00-0003 1" Pipe Connection, Commercial Water Softeners (Watts Pure Water) ^(22 31 16 00-0002)

Note: Includes corrosion resistant NSF Certified fiberglass mineral and brine tanks and fully automatic metered demand control valve.

22 31 16 00-0004 EA 30,000 Grain Capacity, 1" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10111A11).....	5,283.44	387.70
22 31 16 00-0005 EA 45,000 Grain Capacity, 1" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10111B11).....	5,522.59	405.32
22 31 16 00-0006 EA 60,000 Grain Capacity, 1" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10111C11).....	5,959.09	422.94
22 31 16 00-0007 EA 90,000 Grain Capacity, 1" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10111D11).....	6,853.85	440.56
22 31 16 00-0008 EA 120,000 Grain Capacity, 1" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10111E11).....	7,303.51	458.19

22 31 16 00-0009 1-1/2" Pipe Connection, Commercial Water Softeners (Watts Pure Water) ^(22 31 16 00-0002)

Note: Includes corrosion resistant NSF Certified fiberglass mineral and brine tanks and fully automatic metered demand control valve.

22 31 16 00-0010 EA 60,000 Grain Capacity, 1-1/2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS15121C11).....	7,895.19	422.94
22 31 16 00-0011 EA 90,000 Grain Capacity, 1-1/2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS15121D11).....	8,303.18	440.56
22 31 16 00-0012 EA 120,000 Grain Capacity, 1-1/2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS15121E11).....	8,755.03	458.19
22 31 16 00-0013 EA 150,000 Grain Capacity, 1-1/2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS15121F11).....	10,395.29	475.81
22 31 16 00-0014 EA 210,000 Grain Capacity, 1-1/2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS15121G11).....	11,550.95	493.44
22 31 16 00-0015 EA 300,000 Grain Capacity, 1-1/2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS15121H11).....	14,052.91	511.05

22 31 16 00-0016 2" Pipe Connection, Commercial Water Softeners (Watts Pure Water) ^(22 31 16 00-0002)

Note: Includes corrosion resistant NSF Certified fiberglass mineral and brine tanks and fully automatic metered demand control valve.

22 31 16 00-0017 EA 90,000 Grain Capacity, 2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131D11).....	11,964.87	440.56
22 31 16 00-0018 EA 120,000 Grain Capacity, 2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131E11).....	12,401.38	458.19
22 31 16 00-0019 EA 150,000 Grain Capacity, 2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131F11).....	14,046.02	475.81
22 31 16 00-0020 EA 210,000 Grain Capacity, 2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131G11).....	15,201.68	493.44
22 31 16 00-0021 EA 300,000 Grain Capacity, 2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131H11).....	17,839.58	511.05
22 31 16 00-0022 EA 450,000 Grain Capacity, 2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131I11).....	23,512.07	528.68
22 31 16 00-0023 EA 600,000 Grain Capacity, 2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131J11).....	27,496.25	546.30

22 31 16 00-0024 3" Pipe Connection, Commercial Water Softeners (Watts Pure Water) ^(22 31 16 00-0002)

Note: Includes corrosion resistant NSF Certified fiberglass mineral and brine tanks and fully automatic metered demand control valve.

22 31 16 00-0025 EA 300,000 Grain Capacity, 3" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS30151H11).....	28,855.36	511.05
22 31 16 00-0026 EA 450,000 Grain Capacity, 3" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS30151I11).....	33,328.48	528.68
22 31 16 00-0027 EA 600,000 Grain Capacity, 3" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS30151J11).....	37,260.03	546.30

22	Plumbing
22 30	Plumbing Equipment
22 31	Domestic Water Softeners



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 31 16 00-0028 EA 900,000 Grain Capacity, 3" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS30151K11)	46,896.80	563.93
22 31 16 00-0029 EA 1050,000 Grain Capacity, 3" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS30151L11).....	51,922.47	581.54
22 31 16 00-0030 Duplex Alternating (Two Valves), Commercial Water Softeners (Watts Pure Water) (22 31 16 00-0001)		
22 31 16 00-0031 2" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softeners (Watts Pure Water) (22 31 16 00-0030)		
Note: Includes corrosion resistant NSF Certified fiberglass mineral and brine tanks and two fully automatic metered demand control valves.		
22 31 16 00-0032 EA 90,000 Grain Capacity, 2" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131D21)	19,630.16	660.84
22 31 16 00-0033 EA 120,000 Grain Capacity, 2" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131E21)	20,500.87	687.28
22 31 16 00-0034 EA 150,000 Grain Capacity, 2" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131F21)	23,336.19	713.72
22 31 16 00-0035 EA 210,000 Grain Capacity, 2" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131G21)	25,509.33	740.15
22 31 16 00-0036 EA 300,000 Grain Capacity, 2" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131H21)	31,122.70	766.58
22 31 16 00-0037 EA 450,000 Grain Capacity, 2" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131I21).....	41,204.66	793.02
22 31 16 00-0038 EA 600,000 Grain Capacity, 2" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131J21).....	48,484.44	819.45
22 31 16 00-0039 3" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softeners (Watts Pure Water) (22 31 16 00-0030)		
Note: Includes corrosion resistant NSF Certified fiberglass mineral and brine tanks and two fully automatic metered demand control valves.		
22 31 16 00-0040 EA 300,000 Grain Capacity, 3" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS30151H21).....	52,970.07	766.58
22 31 16 00-0041 EA 450,000 Grain Capacity, 3" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS30151I21).....	60,841.86	793.02
22 31 16 00-0042 EA 600,000 Grain Capacity, 3" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS30151J21).....	68,365.02	819.45
22 31 16 00-0043 EA 900,000 Grain Capacity, 3" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS30151K21).....	86,965.34	845.88
22 31 16 00-0044 EA 1,050,000 Grain Capacity, 3" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS30151L21).....	97,088.95	872.32
22 31 16 00-0045 Twin Alternating, Commercial Water Softeners (Watts Pure Water) (22 31 16 00-0001)		
22 31 16 00-0046 1" Pipe Connection, Twin Alternating, Commercial Water Softeners (Watts Pure Water) (22 31 16 00-0045)		
Note: Includes corrosion resistant NSF Certified fiberglass mineral and brine tanks and fully automatic metered demand control valve.		
22 31 16 00-0047 EA 30,000 Grain Capacity, 1" Pipe Connection, Twin Alternating, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10T161A21)	6,956.02	581.54
22 31 16 00-0048 EA 45,000 Grain Capacity, 1" Pipe Connection, Twin Alternating, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10T161B21)	7,416.72	607.98
22 31 16 00-0049 EA 60,000 Grain Capacity, 1" Pipe Connection, Twin Alternating, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10T161C21)	8,085.71	634.42
22 31 16 00-0050 EA 90,000 Grain Capacity, 1" Pipe Connection, Twin Alternating, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10T161D21)	9,690.97	660.84
22 31 16 00-0051 EA 120,000 Grain Capacity, 1" Pipe Connection, Twin Alternating, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10T161E21).....	10,712.97	687.28
22 31 16 00-0052 1-1/2" Pipe Connection, Twin Alternating, Commercial Water Softeners (Watts Pure Water) (22 31 16 00-0045)		
Note: Includes corrosion resistant NSF Certified fiberglass mineral and brine tanks and fully automatic metered demand control valve.		
22 31 16 00-0053 EA 60,000 Grain Capacity, 1-1/2" Pipe Connection, Twin Alternating, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10T161A21).....	13,551.93	634.42
22 31 16 00-0054 EA 90,000 Grain Capacity, 1-1/2" Pipe Connection, Twin Alternating, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10T161B21)	14,288.91	660.84
22 31 16 00-0055 EA 120,000 Grain Capacity, 1-1/2" Pipe Connection, Twin Alternating, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10T161C21)	15,376.70	687.28
22 31 16 00-0056 EA 150,000 Grain Capacity, 1-1/2" Pipe Connection, Twin Alternating, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10T161D21)	17,591.50	713.72
22 31 16 00-0057 EA 210,000 Grain Capacity, 1-1/2" Pipe Connection, Twin Alternating, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10T161E21).....	19,839.19	740.15
22 31 16 00-0058 EA 300,000 Grain Capacity, 1-1/2" Pipe Connection, Twin Alternating, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10T161E21).....	24,818.89	766.58

22 32 Domestic Water Filtration Equipment (22 30)



	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
--	------------------------------	--	---------------------------	-------------------------

22 32 16 Domestic-Water Freestanding Cartridge Filters (22 32)

22 32 16 00-0001	Commercial Water Filters Housings (22 32 16)			
22 32 16 00-0002	Commercial Multi-Cartridge Stainless Steel Water Filter Housings (22 32 16 00-0001)			
22 32 16 00-0003	Commercial Multi-Cartridge Stainless Steel Water Filter Housings (22 32 16 00-0002)			
22 32 16 00-0004	EA 25 GPM Max Flow Rate, 4 Cartridge, Commercial Multi-Cartridge Stainless Steel Water Filter Housing (Watts Pure Water PWHS4X1).....	2,745.28		248.91
22 32 16 00-0005	EA 30 GPM Max Flow Rate, 5 Cartridge, Commercial Multi-Cartridge Stainless Steel Water Filter Housing (Watts Pure Water PWHS5X1).....	2,803.30		268.06
22 32 16 00-0006	EA 60 GPM Max Flow Rate, 4 Cartridge, Commercial Multi-Cartridge Stainless Steel Water Filter Housing (Watts Pure Water PWHS4X2).....	2,984.12		287.21
22 32 16 00-0007	EA 90 GPM Max Flow Rate, 4 Cartridge, Commercial Multi-Cartridge Stainless Steel Water Filter Housing (Watts Pure Water PWHS4X3).....	3,300.87		306.36
22 32 16 00-0008	EA 120 GPM Max Flow Rate, 4 Cartridge, Commercial Multi-Cartridge Stainless Steel Water Filter Housing (Watts Pure Water PWHS4X4).....	3,402.76		325.50
22 32 16 00-0009	EA 150 GPM Max Flow Rate, 5 Cartridge, Commercial Multi-Cartridge Stainless Steel Water Filter Housing (Watts Pure Water PWHS5X4).....	4,112.00		344.65
22 32 16 00-0010	EA 250 GPM Max Flow Rate, 12 Cartridge, Commercial Multi-Cartridge Stainless Steel Water Filter Housing (Watts Pure Water PWHS12X3).....	11,399.13		363.80
22 32 16 00-0011	EA 300 GPM Max Flow Rate, 12 Cartridge, Commercial Multi-Cartridge Stainless Steel Water Filter Housing (Watts Pure Water PWHS12X4).....	13,250.73		382.95
22 32 16 00-0012	EA 500 GPM Max Flow Rate, 22 Cartridge, Commercial Multi-Cartridge Stainless Steel Water Filter Housing (Watts Pure Water PWHS22X3).....	16,801.61		402.09
22 32 16 00-0013	EA 600 GPM Max Flow Rate, 22 Cartridge, Commercial Multi-Cartridge Stainless Steel Water Filter Housing (Watts Pure Water PWHS22X4).....	18,631.29		421.24

22 32 16 00-0014 Commercial Water Filter Cartridges (22 32 16 00-0002)

22 32 16 00-0015 (Depth) Water Filter Cartridges (22 32 16 00-0014)				
22 32 16 00-0016	EA 50 Micron, 10" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB10M50).....	14.34		3.07
22 32 16 00-0017	EA 20 Micron, 10" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB10M20).....	14.34		3.07
22 32 16 00-0018	EA 10 Micron, 10" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB10M10).....	14.34		3.07
22 32 16 00-0019	EA 5 Micron, 10" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB10M5).....	12.15		3.07
22 32 16 00-0020	EA 1 Micron, 10" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB10M1).....	14.89		3.07
22 32 16 00-0021	EA 50 Micron, 20" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB20M50).....	14.89		3.07
22 32 16 00-0022	EA 20 Micron, 20" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB20M20).....	15.99		3.07
22 32 16 00-0023	EA 5 Micron, 20" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Big Pure Water PWMB20M5).....	19.82		3.07
22 32 16 00-0024	EA 1 Micron, 20" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB20M1).....	15.99		3.07
22 32 16 00-0025	EA 50 Micron, 30" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB30M50).....	18.73		3.07
22 32 16 00-0026	EA 20 Micron, 30" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB30M20).....	18.73		3.07
22 32 16 00-0027	EA 5 Micron, 30" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB30M5).....	18.73		3.07
22 32 16 00-0028	EA 1 Micron, 30" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB30M1).....	20.37		3.07
22 32 16 00-0029	EA 50 Micron, 40" Length, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB40M50).....	26.40		3.07
22 32 16 00-0030	EA 20 Micron, 40" Length, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB40M20).....	24.21		3.07
22 32 16 00-0031	EA 5 Micron, 40" Length, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB40M5).....	24.21		3.07
22 32 16 00-0032	EA 1 Micron, 40" Length, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB40M1).....	26.40		3.07

22 32 16 00-0033 Pleated Water Filter Cartridges (22 32 16 00-0014)

22 32 16 00-0034	EA 50 Micron, 9-3/4" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL10M50).....	24.76		3.07
22 32 16 00-0035	EA 20 Micron, 9-3/4" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL10M20).....	24.76		3.07
22 32 16 00-0036	EA 5 Micron, 9-3/4" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL10M5).....	25.31		3.07
22 32 16 00-0037	EA 1 Micron, 9-3/4" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL10M1).....	26.95		3.07
22 32 16 00-0038	EA 1 Micron Absolute, 9-3/4" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL10M1AB).....	40.11		3.07
22 32 16 00-0039	EA 50 Micron, 20" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL20M50).....	38.46		3.07
22 32 16 00-0040	EA 20 Micron, 20" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL20M20).....	38.46		3.07
22 32 16 00-0041	EA 5 Micron, 20" Length, Pleated Water Filter Cartridge (Watts Big Pure Water PWPL20M5).....	38.46		3.07
22 32 16 00-0042	EA 1 Micron, 20" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL20M1).....	50.52		3.07
22 32 16 00-0043	EA 1 Micron Absolute, 20" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL20M1AB).....	71.35		3.07
22 32 16 00-0044	EA 50 Micron, 40" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL40M50).....	59.84		3.07
22 32 16 00-0045	EA 20 Micron, 40" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL40M20).....	82.86		3.07
22 32 16 00-0046	EA 5 Micron, 40" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL40M5).....	86.15		3.07
22 32 16 00-0047	EA 1 Micron, 40" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL40M1).....	97.11		3.07

22 32 16 00-0048 Commercial Non-Metallic Water Filter Housings (22 32 16 00-0001)

22 32 16 00-0049	Commercial Non-Metallic Water Filter Housings (22 32 16 00-0048)			
22 32 16 00-0050	EA 150 GPM Max Flow Rate, 1 Cartridge, Commercial Non-Metallic Water Filter Housing (Watts Big Bubba® PWWJCHSG).....	2,170.88		229.77

22 32 16 00-0051 Commercial Water Filter Cartridges (22 32 16 00-0048)

22 32 16 00-0052	Commercial Carbon Water Filter Cartridges (22 32 16 00-0051)			
22 32 16 00-0053	EA Activated 26-1/4" Length, Carbon Water Filter Cartridge (Watts Big Bubba® PWWJCAC5).....	689.12		3.07

22 32 16 00-0054 (Depth) Water Filter Cartridges (22 32 16 00-0051)

22	Plumbing
22 30	Plumbing Equipment
22 32	Domestic Water Filtration Equipment



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 32 16 00-0055 EA 50 Micron, 26-1/4" Length, Melt Blown (Depth) Water Filter Cartridge (Watts Big Bubba® PWWJCMB50).....	143.71	3.07
22 32 16 00-0056 EA 20 Micron, 26-1/4" Length, Melt Blown (Depth) Water Filter Cartridge (Watts Big Bubba® PWWJCMB20).....	142.61	3.07
22 32 16 00-0057 EA 5 Micron, 26-1/4" Length, Melt Blown (Depth) Water Filter Cartridge (Watts Big Bubba® PWWJCMB5).....	142.61	3.07
22 32 16 00-0058 EA 1 Micron, 26-1/4" Length, Melt Blown (Depth) Water Filter Cartridge (Watts Big Bubba® PWWJCMB1).....	163.44	3.07
22 32 16 00-0059 Pleated Water Filter Cartridges (22 32 16 00-0051)		
22 32 16 00-0060 EA 150 Micron, 26-1/4" Length, Pleated Water Filter Cartridge (Watts Big Bubba® PWWJCM150).....	378.87	3.07
22 32 16 00-0061 EA 50 Micron, 26-1/4" Length, Pleated Water Filter Cartridge (Watts Big Bubba® PWWJCP50).....	355.84	3.07
22 32 16 00-0062 EA 20 Micron, 26-1/4" Length, Pleated Water Filter Cartridge (Watts Big Bubba® PWWJCP20).....	387.64	3.07
22 32 16 00-0063 EA 5 Micron, 26-1/4" Length, Pleated Water Filter Cartridge (Watts Big Bubba® PWWJCP5).....	406.28	3.07
22 32 16 00-0064 EA 1 Micron, 26-1/4" Length, Pleated Water Filter Cartridge (Watts Big Bubba® PWWJCP1).....	432.59	3.07
22 32 16 00-0065 EA 1 Absolute, 26-1/4" Length, Pleated Water Filter Cartridge (Watts Big Bubba® PWWJCP1AB).....	468.76	3.07
22 33 Electric Domestic Water Heaters (22 30)		
22 33 13 Instantaneous Electric Domestic Water Heaters (22 33)		
22 33 13 13 Flow-Control, Instantaneous Electric Domestic Water Heaters (22 33 13)		
22 33 13 13-0001 Flow Controlled, Instantaneous, Tankless, Electric Domestic Water Heaters		
(22 33 13 13)		
22 33 13 13-0002 EA 3 To 10 KW Flow Controlled, Instantaneous, Tankless, Electric Domestic Water Heater (Eemax EX3012, EX48, EX65, EX75, EX95).....	640.29	76.57
22 33 13 13-0003 EA 7.2 KW, 0.75 GPM, Instantaneous, Tankless, Electric Domestic Water Heater (Bosch RP7P).....	645.62	76.57
22 33 13 16 Thermostat-Control, Instantaneous Electric Domestic Water Heaters (22 33 13)		
22 33 13 16-0001 Thermostat Controlled, Instantaneous, Tankless, Electric Domestic Water Heaters (22 33 13 16)		
Note: Temperature rise decreases with increased flow rate.		
22 33 13 16-0002 EA 3 To 10 KW Thermostat-Control, Instantaneous, Tankless, Electric Domestic Water Heater (Eemax EX3012T, EX48T, EX65T, EX75T, EX95T, EX012240T).....	851.89	114.85
22 33 13 16-0003 EA 12 KW, 2.0 GPM, Indoor Mount, Instantaneous, Tankless, Electric Domestic Water Heater (Bosch PowerStar AE12).....	840.18	153.13
22 33 13 16-0004 EA 17.25 KW, 2.3 GPM At 45 Degree Rise, Indoor Mount, Instantaneous, Tankless, Electric Domestic Water Heater (Bosch PowerStar AE115).....	1,426.05	267.98
22 33 13 16-0005 EA 26.85 KW, 4.0 GPM At 45 Degree Rise, Indoor Mount, Instantaneous, Tankless, Electric Domestic Water Heater (Bosch PowerStar AE125).....	2,125.66	306.27
22 33 13 16-0006 EA 12 KW, 1.6 GPM At 45 Degree Rise, Indoor Mount, Instantaneous, Tankless, Electric Domestic Water Heater (Stiebel Eltron Temptra 12 Plus).....	1,716.39	153.13
22 33 13 16-0007 EA 14.4 KW, 2.3 GPM At 45 Degree Rise, Indoor Mount, Instantaneous, Tankless, Electric Domestic Water Heater (Stiebel Eltron Temptra 15 Plus).....	2,347.71	229.70
22 33 13 16-0008 EA 19.2 KW, 2.8 GPM At 45 Degree Rise, Indoor Mount, Instantaneous, Tankless, Electric Domestic Water Heater (Stiebel Eltron Temptra 20 Plus).....	2,593.21	306.27
22 33 13 16-0009 EA 24 KW, 3.3 GPM At 45 Degree Rise, Indoor Mount, Instantaneous, Tankless, Electric Domestic Water Heater (Stiebel Eltron Temptra 24 Plus).....	2,691.02	306.27
22 33 13 16-0010 EA 28.8 KW, 4.5 GPM At 45 Degree Rise, Indoor Mount, Instantaneous, Tankless, Electric Domestic Water Heater (Stiebel Eltron Temptra 29 Plus).....	2,783.40	306.27
22 33 13 16-0011 EA 36 KW, 4.5 GPM At 55 Degree Rise, Indoor Mount, Instantaneous, Tankless, Electric Domestic Water Heater (Stiebel Eltron Temptra 36 Plus).....	2,919.25	306.27
22 33 30 Residential, Electric Domestic Water Heaters (22 33)		
22 33 30 13 Residential, Small-Capacity Electric Domestic Water Heaters (22 33 30)		
22 33 30 13-0001 Small-Capacity, Electric Domestic Water Heaters (A.O. Smith ProMax) (22 33 30 13)		
Note: Includes glass lined tank, drain valve and temperature and pressure relief valve. Excludes electrical connections.		
22 33 30 13-0002 EA 2 Gallon, Small-Capacity, Electric Domestic Water Heater.....	1,199.50	241.18
22 33 30 13-0003 EA 10 Gallon, Small-Capacity, Electric Domestic Water Heater.....	1,469.22	256.50
22 33 30 13-0004 EA 20 Gallon, Small-Capacity, Electric Domestic Water Heater.....	1,731.29	267.98
22 33 30 16 Residential, Storage Electric Domestic Water Heaters (22 33 30)		
22 33 30 16-0001 Electric Domestic Water Heaters (A.O. Smith ProMax) (22 33 30 16)		
Note: Includes glass lined tank, drain valve and temperature and pressure relief valve. Excludes electrical connections.		
22 33 30 16-0002 EA 30 Gallon, Electric Domestic Water Heater.....	1,848.15	267.98
22 33 30 16-0003 EA 40 Gallon, Electric Domestic Water Heater.....	1,740.63	275.64
22 33 30 16-0004 EA 50 Gallon, Electric Domestic Water Heater.....	1,714.10	283.30
22 33 30 16-0005 EA 55 Gallon, Electric Domestic Water Heater.....	1,910.79	287.12
22 33 30 16-0006 EA 66 Gallon, Electric Domestic Water Heater.....	2,765.17	294.78
22 33 30 16-0007 EA 80 Gallon, Electric Domestic Water Heater.....	2,818.03	306.27
22 33 30 16-0008 EA 120 Gallon, Electric Domestic Water Heater.....	3,741.42	325.41



Plumbing	22	22
Plumbing Equipment	22 30	
Electric Domestic Water Heaters	22 33	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 33 30 16-0009	Low-Boy, Electric Domestic Water Heaters (A.O. Smith ProMax) ^(22 33 30 16)	
	Note: Includes glass lined tank, drain valve and temperature and pressure relief valve. Excludes electrical connections.	
22 33 30 16-0010 EA 30 Gallon, Low-Boy, Electric Domestic Water Heater.....	1,982.34	267.98
22 33 30 16-0011 EA 40 Gallon, Low-Boy, Electric Domestic Water Heater.....	1,890.07	275.64
22 33 30 16-0012 EA 50 Gallon, Low-Boy, Electric Domestic Water Heater.....	2,001.02	283.30
22 33 30 16-0013	High Efficiency, Electric Domestic Water Heaters (A.O. Smith Conservationist) ^(22 33 30 16)	
	Note: Includes .95 energy factor glass lined tank, drain valve and temperature and pressure relief valve. Excludes electrical connections.	
22 33 30 16-0014 EA 40 Gallon, High Efficiency, Electric Domestic Water Heater.....	2,046.83	275.64
22 33 30 16-0015 EA 50 Gallon, High Efficiency, Electric Domestic Water Heater.....	2,234.14	283.30
22 33 30 16-0016 EA 66 Gallon, High Efficiency, Electric Domestic Water Heater.....	2,744.10	294.78
22 33 30 16-0017 EA 80 Gallon, High Efficiency, Electric Domestic Water Heater.....	2,982.26	306.27
22 33 30 16-0018	Water Heater Accessories ^(22 33 30 16)	
22 33 30 16-0019 EA 2 Gallon, Expansion Pressure Tank For Water Heaters.....	156.30	15.31
22 33 30 16-0020 EA 4.4 Gallon, Expansion Pressure Tank For Water Heaters.....	184.34	15.31
22 33 30 16-0021 EA 7.6 Gallon, Expansion Pressure Tank For Water Heaters.....	357.56	15.31
22 33 30 16-0022 EA 14 Gallon, Expansion Pressure Tank For Water Heaters.....	479.47	15.31
22 33 30 16-0023 EA 20" Diameter, 3" Deep, Aluminum Water Heater Drain Pan.....	80.39	11.49
22 33 30 16-0024 EA 22" Diameter, 2-1/2" Deep, Aluminum Water Heater Drain Pan.....	87.31	11.49
22 33 30 16-0025 EA 24" Diameter, 3" Deep, Aluminum Water Heater Drain Pan.....	91.92	11.49
22 33 30 16-0026 EA 26" Diameter, 2-1/2" Deep, Aluminum Water Heater Drain Pan.....	108.06	11.49
22 33 30 16-0027 EA 22" Diameter, 2-1/2" Deep, Polyethylene Water Heater Drain Pan.....	45.68	11.49
22 33 30 16-0028 EA 24" Diameter, 2-1/2" Deep, Polyethylene Water Heater Drain Pan.....	49.37	11.49
22 33 30 16-0029 EA 26" Diameter, 2-1/2" Deep, Polyethylene Water Heater Drain Pan.....	54.56	11.49
22 33 30 16-0030 EA 28" Diameter, 2-1/2" Deep, Polyethylene Water Heater Drain Pan.....	61.23	11.49
22 33 30 23	Residential, Collector-To-Tank, Solar-Electric Domestic Water Heaters ^(22 33 30)	
22 33 30 23-0001	Solar Electric Domestic Water Heaters (A.O. Smith CIRREX) ^(22 33 30 23)	
	Note: Includes glass lined tank, drain valve and temperature and pressure relief valve. Excludes electrical connections.	
22 33 30 23-0002 EA 80 Gallon, Solar Electric Domestic Water Heater.....	4,611.94	306.27
22 33 30 23-0003 EA 120 Gallon, Solar Electric Domestic Water Heater.....	5,524.02	325.41
22 33 33	Light-Commercial Electric Domestic Water Heaters ^(22 33)	
22 33 33 00-0001	Heavy Duty Electric Commercial Water Heaters (A.O. Smith DSE) ^(22 33 33)	
	Note: Includes glass lined tank, ASME tank construction, drain valve, and temperature and pressure relief valve.	
22 33 33 00-0002 EA 3 KW, 5 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-5-3).....	5,550.70	267.98
22 33 33 00-0003 EA 3 KW, 10 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-10-3).....	5,761.85	267.98
22 33 33 00-0004 EA 6 KW, 10 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-10-6).....	5,990.60	267.98
22 33 33 00-0005 EA 3 KW, 20 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-20-3).....	6,067.16	306.27
22 33 33 00-0006 EA 6 KW, 20 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-20-6).....	6,331.10	306.27
22 33 33 00-0007 EA 9 KW, 20 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-20-9).....	6,753.40	306.27
22 33 33 00-0008 EA 12 KW, 20 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-20-12).....	7,034.94	306.27
22 33 33 00-0009 EA 15 KW, 20 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-20-15).....	7,263.68	306.27
22 33 33 00-0010 EA 18 KW, 20 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-20-18).....	7,510.02	306.27
22 33 33 00-0011 EA 6 KW, 30 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-30-6).....	6,595.04	306.27
22 33 33 00-0012 EA 9 KW, 30 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-30-9).....	6,841.38	306.27
22 33 33 00-0013 EA 12 KW, 30 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-30-12).....	7,122.92	306.27
22 33 33 00-0014 EA 15 KW, 30 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-30-15).....	7,351.66	306.27
22 33 33 00-0015 EA 18 KW, 30 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-30-18).....	7,598.00	306.27
22 33 33 00-0016 EA 24 KW, 30 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-30-24).....	9,410.38	306.27
22 33 33 00-0017 EA 9 KW, 40 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-40-9).....	7,223.27	382.83
22 33 33 00-0018 EA 12 KW, 40 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-40-12).....	7,452.01	382.83
22 33 33 00-0019 EA 15 KW, 40 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-40-15).....	7,733.55	382.83
22 33 33 00-0020 EA 18 KW, 40 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-40-18).....	7,979.89	382.83
22 33 33 00-0021 EA 24 KW, 40 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-40-24).....	9,809.86	382.83
22 33 33 00-0022 EA 30 KW, 40 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-40-30).....	10,654.47	382.83
22 33 33 00-0023 EA 36 KW, 40 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-40-36).....	11,481.48	382.83
22 33 33 00-0024 EA 9 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-9).....	8,361.77	459.39
22 33 33 00-0025 EA 12 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-12).....	8,590.51	459.39
22 33 33 00-0026 EA 15 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-15).....	8,819.26	459.39
22 33 33 00-0027 EA 18 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-18).....	9,065.60	459.39
22 33 33 00-0028 EA 24 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-24).....	10,948.37	459.39
22 33 33 00-0029 EA 30 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-30).....	11,792.97	459.39
22 33 33 00-0030 EA 36 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-36).....	12,619.98	459.39
22 33 33 00-0031 EA 45 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-45).....	14,115.63	459.39
22 33 33 00-0032 EA 54 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-54).....	14,784.27	459.39
22 33 33 00-0033 EA 60 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-60).....	17,106.93	459.39
22 33 33 00-0034 EA 75 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-75).....	20,098.23	459.39
22 33 33 00-0035 EA 90 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-90).....	25,130.66	459.39
22 33 33 00-0036 EA 9 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-9).....	9,477.44	612.52

22 Plumbing
22 30 Plumbing Equipment
22 33 Electric Domestic Water Heaters



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 33 33 00-0037 EA 12 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-12)	9,741.38	612.52
22 33 33 00-0038 EA 15 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-15)	9,987.72	612.52
22 33 33 00-0039 EA 18 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-18)	10,198.87	612.52
22 33 33 00-0040 EA 24 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-24)	12,064.04	612.52
22 33 33 00-0041 EA 30 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-30)	12,908.64	612.52
22 33 33 00-0042 EA 36 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-36)	13,718.05	612.52
22 33 33 00-0043 EA 45 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-45)	15,248.89	612.52
22 33 33 00-0044 EA 54 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-54)	15,899.94	612.52
22 33 33 00-0045 EA 60 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-60)	18,240.20	612.52
22 33 33 00-0046 EA 75 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-75)	21,249.10	612.52
22 33 33 00-0047 EA 90 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-90)	26,263.93	612.52
22 33 33 00-0048 EA 12 KW, 80 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-80-12)	10,598.34	689.09
22 33 33 00-0049 EA 15 KW, 80 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-80-15)	10,844.69	689.09
22 33 33 00-0050 EA 18 KW, 80 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-80-18)	11,055.84	689.09
22 33 33 00-0051 EA 24 KW, 80 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-80-24)	12,938.60	689.09
22 33 33 00-0052 EA 30 KW, 80 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-80-30)	13,695.22	689.09
22 33 33 00-0053 EA 36 KW, 80 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-80-36)	14,575.02	689.09
22 33 33 00-0054 EA 45 KW, 80 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-80-45)	16,105.86	689.09
22 33 33 00-0055 EA 54 KW, 80 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-80-54)	16,774.50	689.09
22 33 33 00-0056 EA 60 KW, 80 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-80-60)	18,973.99	689.09
22 33 33 00-0057 EA 75 KW, 80 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-80-75)	22,106.06	689.09
22 33 33 00-0058 EA 90 KW, 80 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-80-90)	27,120.89	689.09
22 33 33 00-0059 EA 15 KW, 100 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-100-15)	11,912.80	765.66
22 33 33 00-0060 EA 18 KW, 100 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-100-18)	12,194.34	765.66
22 33 33 00-0061 EA 24 KW, 100 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-100-24)	14,024.31	765.66
22 33 33 00-0062 EA 30 KW, 100 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-100-30)	14,868.91	765.66
22 33 33 00-0063 EA 36 KW, 100 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-100-36)	15,695.92	765.66
22 33 33 00-0064 EA 45 KW, 100 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-100-45)	17,191.57	765.66
22 33 33 00-0065 EA 54 KW, 100 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-100-54)	17,877.81	765.66
22 33 33 00-0066 EA 60 KW, 100 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-100-60)	20,182.88	765.66
22 33 33 00-0067 EA 75 KW, 100 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-100-75)	23,174.18	765.66
22 33 33 00-0068 EA 90 KW, 100 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-100-90)	28,224.20	765.66
22 33 33 00-0069 EA 15 KW, 120 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-120-15)	12,852.53	918.79
22 33 33 00-0070 EA 18 KW, 120 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-120-18)	13,098.87	918.79
22 33 33 00-0071 EA 24 KW, 120 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-120-24)	14,928.84	918.79
22 33 33 00-0072 EA 30 KW, 120 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-120-30)	15,738.25	918.79
22 33 33 00-0073 EA 36 KW, 120 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-120-36)	16,600.45	918.79
22 33 33 00-0074 EA 45 KW, 120 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-120-45)	18,096.10	918.79
22 33 33 00-0075 EA 54 KW, 120 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-120-54)	18,729.56	918.79
22 33 33 00-0076 EA 60 KW, 120 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-120-60)	21,105.00	918.79
22 33 33 00-0077 EA 75 KW, 120 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-120-75)	24,113.90	918.79
22 33 33 00-0078 EA 90 KW, 120 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-120-90)	29,111.14	918.79
22 33 33 00-0079 Standard Duty Electric Commercial Water Heaters (A.O. Smith DEL And DEN) <small>(22 33 33)</small>		
Note: Includes glass lined tank, drain valve, and temperature and pressure relief valve.		
22 33 33 00-0080 EA Up To 2.5 KW, 6 Gallon, Single Element Lowboy Electric Commercial Water Heater (DEL-6S)	1,626.82	267.98
22 33 33 00-0081 EA Up To 6 KW, 10 Gallon, Single Element Lowboy Electric Commercial Water Heater (DEL-10S)	1,737.67	267.98
22 33 33 00-0082 EA Up To 6 KW, 20 Gallon, Single Element Lowboy Electric Commercial Water Heater (DEL-20S)	1,896.93	306.27
22 33 33 00-0083 EA Up To 12 KW, 30 Gallon, Dual Element Lowboy Electric Commercial Water Heater (DEL-30D)	3,163.84	306.27
22 33 33 00-0084 EA Up To 12 KW, 40 Gallon, Dual Element Lowboy Electric Commercial Water Heater (DEL-40D)	3,668.90	382.83
22 33 33 00-0085 EA Up To 12 KW, 50 Gallon, Dual Element Lowboy Electric Commercial Water Heater (DEL-50D)	4,085.96	459.39
22 33 33 00-0086 EA Up To 12 KW, 80 Gallon, Dual Element Standard Upright Electric Commercial Water Heater (DEN-80D)	4,964.14	689.09
22 33 33 00-0087 Water Heater Accessories <small>(22 33 33)</small>		
22 33 33 00-0088 EA Up To 80 Gallon Water Heater Strap	53.35	
Note: Includes (4) Straps (4) J-Clips (4) Lag Bolts (2) 3/8" Carriage Bolts (2) 3/8" Hex Nuts		
22 33 33 00-0089 EA >80 To 120 Gallon Water Heater Strap	76.99	
Note: Includes (4) Straps (4) J-Clips (4) Lag Bolts (2) 3/8" Carriage Bolts (2) 3/8" Hex Nuts		
22 33 33 00-0090 Removal And Reinstallation Of Water Heater <small>(22 33 33)</small>		
Note: Includes storage and cleaning.		
22 33 33 00-0091 EA Removal And Reinstallation Of Water Heater Electric, Up To 82 Gallon	510.43	
22 33 33 00-0092 EA Removal And Reinstallation Of Water Heater Electric, 83 Gallon To 200 Gallon	1,531.31	
22 34 Fuel-Fired Domestic Water Heaters <small>(22 30)</small>		
22 34 13 Instantaneous, Tankless, Gas Domestic Water Heaters <small>(22 34)</small>		
22 34 13 00-0001 Instantaneous, Tankless, Gas Domestic Water Heaters <small>(22 34 13)</small>		
22 34 13 00-0002 Indoor Mount, Instantaneous, Tankless, Gas Domestic Water Heaters <small>(22 34 13 00-0001)</small>		
Note: Includes vent connection. Excludes vent.		
22 34 13 00-0003 EA 4.2 GPM, Indoor Mount, Instantaneous, Tankless, Gas Domestic Water Heater (Rheem RTG-42PVN)	2,589.55	306.27
22 34 13 00-0004 EA 5.3 GPM, Indoor Mount, Instantaneous, Tankless, Gas Domestic Water Heater (Rheem RTG-53PVN)	2,804.32	310.09
22 34 13 00-0005 EA 5.3 GPM, Direct Vent, Indoor Mount, Instantaneous, Tankless, Gas Domestic Water Heater (Rheem RTG-53DVN)	3,083.24	317.75



	Plumbing	22
	Plumbing Equipment	22 30
	Fuel-Fired Domestic Water Heaters	22 34

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 34 13 00-0006 EA 6.6 GPM, Direct Vent, Indoor Mount, Instantaneous, Tankless, Gas Domestic Water Heater (Rheem RTG-66DVN).....	3,606.63	325.41
22 34 13 00-0007 EA 7.4 GPM, Indoor Mount, Instantaneous, Tankless, Gas Domestic Water Heater (Rheem RTG-74PVN).....	4,383.30	344.54
22 34 13 00-0008 EA 7.4 GPM, Direct Vent, Indoor Mount, Instantaneous, Tankless, Gas Domestic Water Heater (Rheem RTG-74DVN).....	4,477.45	344.54
22 34 13 00-0009 Outdoor Mount, Instantaneous, Tankless, Gas Domestic Water Heaters (22 34 13 00-0001)		
22 34 13 00-0010 EA 5.3 GPM, Outdoor Mount, Instantaneous, Tankless, Gas Domestic Water Heater (Rheem RTG-53XN).....	2,796.66	306.27
22 34 13 00-0011 EA 7.4 GPM, Outdoor Mount, Instantaneous, Tankless, Gas Domestic Water Heater (Rheem RTG-74XN).....	4,383.30	344.54
22 34 30 Residential Gas Domestic Water Heaters (22 34 30)		
22 34 30 13 Residential, Atmospheric, Gas Domestic Water Heaters (22 34 30 13)		
22 34 30 13-0001 Atmospheric, Gas Domestic Water Heaters (A.O. Smith ProMax) (22 34 30 13) Note: Includes glass lined tank, drain valve, temperature and pressure relief valve and vent connection. Excludes vent.		
22 34 30 13-0002 EA 30 Gallon, Atmospheric, Gas Domestic Water Heater (A. O. Smith GCV-30).....	1,934.32	294.78
22 34 30 13-0003 EA 40 Gallon, Atmospheric, Gas Domestic Water Heater (A. O. Smith GCV-40).....	1,898.83	302.44
22 34 30 13-0004 EA 50 Gallon, Atmospheric, Gas Domestic Water Heater (A. O. Smith GCVX-50).....	2,532.80	310.09
22 34 30 13-0005 EA 65 Gallon, Atmospheric, Gas Domestic Water Heater (A. O. Smith GCV-65).....	2,742.52	317.75
22 34 30 13-0006 EA 75 Gallon, Atmospheric, Gas Domestic Water Heater (A. O. Smith FCG-75).....	2,996.79	325.41
22 34 30 13-0007 EA 100 Gallon, Atmospheric, Gas Domestic Water Heater (A. O. Smith FCG-100).....	4,442.90	344.54
22 34 30 16 Residential, Direct-Vent, Gas Domestic Water Heaters (22 34 30 16)		
22 34 30 16-0001 Direct-Vent, Gas Domestic Water Heaters (A.O. Smith ProMax) (22 34 30 16) Note: Includes glass lined tank, drain valve, temperature and pressure relief valve and vent connection. Excludes vent.		
22 34 30 16-0002 EA 40 Gallon, Direct-Vent, Gas Domestic Water Heater (A. O. Smith GDV-40).....	3,556.51	302.44
22 34 30 16-0003 EA 50 Gallon, Direct-Vent, Gas Domestic Water Heater (A. O. Smith GDV-50).....	4,057.04	310.09
22 34 30 16-0004 EA 75 Gallon, Direct-Vent, Gas Domestic Water Heater (A. O. Smith GDV-75).....	5,283.52	317.75
22 34 30 19 Residential, Power-Vent, Gas Domestic Water Heaters (22 34 30 19)		
22 34 30 19-0001 Power-Vent, Gas Domestic Water Heaters (A.O. Smith ProMax) (22 34 30 19) Note: Includes glass lined tank, drain valve, temperature and pressure relief valve and vent connection. Excludes vent.		
22 34 30 19-0002 EA 40 Gallon, Power-Vent, Gas Domestic Water Heater (A. O. Smith GPVH-40).....	3,228.80	302.44
22 34 30 19-0003 EA 50 Gallon, Power-Vent, Gas Domestic Water Heater (A. O. Smith GPVH-50).....	3,363.66	310.09
22 34 36 Commercial Gas Domestic Water Heaters (22 34 36)		
22 34 36 13 Commercial, Atmospheric, Gas Domestic Water Heaters (22 34 36 13)		
22 34 36 13-0001 Gas Fired Commercial Water Heaters (A.O. Smith BTR) (22 34 36 13) Note: Includes automatic flue damper, glass lined tank, drain valve, temperature and pressure relief valve and vent connection. Excludes vent.		
22 34 36 13-0002 EA 120 MBH Input, 71 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-120).....	6,779.72	459.39
22 34 36 13-0003 EA 154 MBH Input, 81 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-154).....	7,257.66	535.96
22 34 36 13-0004 EA 180 MBH Input, 81 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-180).....	8,957.17	612.52
22 34 36 13-0005 EA 199 MBH Input, 81 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-199).....	7,785.03	612.52
22 34 36 13-0006 EA 199 MBH Input, 100 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-200).....	8,909.29	612.52
22 34 36 13-0007 EA 199 MBH Input, 100 Gallon, ASME Rated Tank, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-200A).....	11,816.88	673.78
22 34 36 13-0008 EA 250 MBH Input, 100 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-250).....	8,671.11	689.09
22 34 36 13-0009 EA 250 MBH Input, 100 Gallon, ASME Rated Tank, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-250A).....	12,743.08	758.00
22 34 36 13-0010 EA 251 MBH Input, 65 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-251).....	8,801.01	689.09
22 34 36 13-0011 EA 251 MBH Input, 65 Gallon, ASME Rated Tank, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-251A).....	12,170.89	758.00
22 34 36 13-0012 EA 275 MBH Input, 100 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-275).....	9,787.72	842.22
22 34 36 13-0013 EA 275 MBH Input, 100 Gallon, ASME Rated Tank, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-275A).....	13,358.33	926.45
22 34 36 13-0014 EA 305 MBH Input, 65 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-305).....	10,963.01	842.22
22 34 36 13-0015 EA 305 MBH Input, 65 Gallon, ASME Rated Tank, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-305A).....	13,435.65	926.45
22 34 36 13-0016 EA 365 MBH Input, 85 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-365).....	10,652.27	918.79
22 34 36 13-0017 EA 365 MBH Input, 85 Gallon, ASME Rated Tank, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-365A).....	14,825.78	1,010.67
22 34 36 13-0018 EA 390 MBH Input, 100 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-400).....	13,420.34	918.79
22 34 36 13-0019 EA 390 MBH Input, 100 Gallon, ASME Rated Tank, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-400A).....	17,485.65	1,010.67
22 34 36 13-0020 EA 500 MBH Input, 85 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-500).....	17,408.64	995.36
22 34 36 13-0021 EA 150 MBH Input, 32 Gallon, Booster Type, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-151).....	8,711.26	535.96
22 34 36 13-0022 EA 150 MBH Input, 32 Gallon, ASME Rated Tank, Booster Type, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-151A).....	10,426.74	589.55

22 Plumbing**22 30 Plumbing Equipment****22 34 Fuel-Fired Domestic Water Heaters**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 34 36 13-0023 EA 199 MBH Input, 32 Gallon, Booster Type, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-201)	9,080.89	612.52
22 34 36 13-0024 EA 199 MBH Input, 32 Gallon, ASME Rated Tank, Booster Type, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-201A)	10,858.09	673.78
22 34 36 13-0025 EA Sidewall Power Vent System For BTR-120 through BTR-200	2,312.02	382.83
22 34 36 13-0026 EA Sidewall Power Vent System For BTR-250 through BTR-500	2,513.06	382.83
22 34 36 13-0027 Removal And Reinstallation Of Water Heater (22 34 36 13) Note: Includes storage and cleaning.		
22 34 36 13-0028 EA Removal And Reinstallation Of Water Heater Gas Fired, Up To 86 Gallon	696.06	
22 34 36 13-0029 EA Removal And Reinstallation Of Water Heater Gas Fired, 87 Gallon To 200 Gallon	1,840.52	
22 34 36 19 Commercial, Power-Vent, Gas Domestic Water Heaters (22 34 36)		
22 34 36 19-0001 Induced Draft Blower Gas Fired Commercial Water Heaters (A.O. Smith BTN) (22 34 36 19) Note: Includes glass lined tank, drain valve, temperature and pressure relief valve and vent connection. Excludes vent.		
22 34 36 19-0002 EA 90 MBH Input, 98 Gallon, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-100)	5,558.03	459.39
22 34 36 19-0003 EA 120 MBH Input, 71 Gallon, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-120)	7,862.23	459.39
22 34 36 19-0004 EA 154 MBH Input, 81 Gallon, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-154)	9,577.26	535.96
22 34 36 19-0005 EA 180 MBH Input, 99 Gallon, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-180)	9,993.29	612.52
22 34 36 19-0006 EA 199 MBH Input, 99 Gallon, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-199)	10,039.68	612.52
22 34 36 19-0007 EA 199 MBH Input, 100 Gallon, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-200)	10,256.18	612.52
22 34 36 19-0008 EA 199 MBH Input, 100 Gallon, ASME Rated Tank, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-200A)	12,017.92	673.78
22 34 36 19-0009 EA 250 MBH Input, 100 Gallon, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-250)	11,321.71	689.09
22 34 36 19-0010 EA 250 MBH Input, 100 Gallon, ASME Rated Tank, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-250A)	13,887.44	758.00
22 34 36 19-0011 EA 275 MBH Input, 100 Gallon, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-275)	11,921.81	842.22
22 34 36 19-0012 EA 275 MBH Input, 100 Gallon, ASME Rated Tank, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-275A)	14,564.55	926.45
22 34 36 19-0013 EA 310 MBH Input, 85 Gallon, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-310)	12,169.24	842.22
22 34 36 19-0014 EA 310 MBH Input, 85 Gallon, ASME Rated Tank, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-310A)	14,719.19	926.45
22 34 36 19-0015 EA 366 MBH Input, 85 Gallon, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-366)	13,636.84	918.79
22 34 36 19-0016 EA 366 MBH Input, 85 Gallon, ASME Rated Tank, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-366A)	16,001.07	1,010.67
22 34 36 19-0017 EA 390 MBH Input, 85 Gallon, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-400)	16,435.90	918.79
22 34 36 19-0018 EA 390 MBH Input, 85 Gallon, ASME Rated Tank, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-400A)	18,939.31	1,010.67
22 34 36 19-0019 Condensing Gas Fired Commercial Water Heaters (A.O. Smith BTX And BTH) (22 34 36 19) Note: Includes glass lined tank, drain valve, temperature and pressure relief valve and vent connection. Excludes vent.		
22 34 36 19-0020 EA 76 MBH Input, 50 Gallon, 90% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTX-80)	4,351.81	459.39
22 34 36 19-0021 EA 100 MBH Input, 50 Gallon, 90% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTX-100)	5,774.53	459.39
22 34 36 19-0022 EA 120 MBH Input, 60 Gallon, 95% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTH-120)	6,949.83	459.39
22 34 36 19-0023 EA 120 MBH Input, 60 Gallon, ASME Rated Tank, 95% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTH-120A)	9,949.02	505.34
22 34 36 19-0024 EA 150 MBH Input, 100 Gallon, 95% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTH-150)	10,195.84	535.96
22 34 36 19-0025 EA 150 MBH Input, 100 Gallon, ASME Rated Tank, 95% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTH-150A)	12,823.73	589.55
22 34 36 19-0026 EA 199 MBH Input, 100 Gallon, 95% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTH-199)	10,379.90	612.52
22 34 36 19-0027 EA 199 MBH Input, 100 Gallon, ASME Rated Tank, 95% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTH-199A)	13,239.61	673.78
22 34 36 19-0028 EA 250 MBH Input, 100 Gallon, 95% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTH-250)	11,986.68	689.09
22 34 36 19-0029 EA 250 MBH Input, 100 Gallon, ASME Rated Tank, 95% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTH-250A)	14,552.41	758.00
22 34 36 19-0030 EA 300 MBH Input, 119 Gallon, ASME Rated Tank, 95% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTH-300A)	19,018.30	926.45
22 34 36 19-0031 EA 399.9 MBH Input, 119 Gallon, ASME Rated Tank, 95% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTH-400A)	20,006.35	1,010.67
22 34 36 19-0032 EA 499.9 MBH Input, 119 Gallon, ASME Rated Tank, 95% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTH-500A)	22,989.31	1,094.89

22 34 36 23 Commercial, High-Efficiency, Gas Domestic Water Heaters (22 34 36)



Plumbing	22	22
Plumbing Equipment	22 30	
Fuel-Fired Domestic Water Heaters	22 34	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
------------------------------	---------------------------	-------------------------

22 34 36 23-0001	Gas Fired Domestic Hot Water Skid Package (Laars Mighty Therm) <small>(22 34 36 23)</small>		
	<small>Note: Includes (2) Laars Mighty Therm boilers, (2) B&G boiler primary pumps (one per boiler), T&P valve, circuit setter, storage tank (sized for 10 minutes buffer based on 50 degree city water supply, and operating set point for the tank at 130 degrees storage), and all necessary accessories for system monitoring such as gauges and thermometers. UL listed and labeled. Excludes piping insulation or seismic calculations.</small>		
22 34 36 23-0002	EA 400 MBH x 2, Gas Fired Domestic Hot Water Skid Package (FlowTherm Systems FTDW-400)	95,285.98	1,909.62
22 34 36 23-0003	EA 1,000 MBH x 2, Gas Fired Domestic Hot Water Skid Package (FlowTherm Systems FTDW-1000)	115,186.86	2,028.97
22 34 36 23-0004	EA 2,000 MBH x 2, Gas Fired Domestic Hot Water Skid Package (FlowTherm Systems FTDW-2000)	139,932.29	2,148.32
22 34 36 23-0005	EA 3,000 MBH x 2, Gas Fired Domestic Hot Water Skid Package (FlowTherm Systems FTDW-3000)	167,258.26	2,267.67
22 34 36 23-0006	EA 4,000 MBH x 2, Gas Fired Domestic Hot Water Skid Package (FlowTherm Systems FTDW-4000)	175,315.05	2,387.02

22 34 36 23-0007	Gas Fired Volume Water Heater (Laars Mighty Therm) <small>(22 34 36 23)</small>		
22 34 36 23-0008	EA 200 MBH Gas Fired Volume Water Heater (Laars MT2V0200)	12,151.17	1,128.31
22 34 36 23-0009	EA 300 MBH Gas Fired Volume Water Heater (Laars MT2V0300)	13,196.29	1,269.35
22 34 36 23-0010	EA 400 MBH Gas Fired Volume Water Heater (Laars MT2V0400)	15,303.33	1,551.43
22 34 36 23-0011	EA 500 MBH Gas Fired Volume Water Heater (Laars MT2V0500)	22,138.44	1,692.47
22 34 36 23-0012	EA 750 MBH Gas Fired Volume Water Heater (Laars MT2V0750)	24,381.73	1,974.55
22 34 36 23-0013	EA 1,000 MBH Gas Fired Volume Water Heater (Laars MT2V1000)	27,889.09	2,256.63
22 34 36 23-0014	EA 1,250 MBH Gas Fired Volume Water Heater (Laars MT2V1250)	30,822.07	2,538.70
22 34 36 23-0015	EA 1,500 MBH Gas Fired Volume Water Heater (Laars MT2V1500)	36,788.39	2,820.78
22 34 36 23-0016	EA 1,750 MBH Gas Fired Volume Water Heater (Laars MT2V1750)	38,183.60	2,961.82
22 34 36 23-0017	EA 2,000 MBH Gas Fired Volume Water Heater (Laars MT2V2000)	40,941.41	3,102.86

22 34 36 26 Commercial, Coil-Type, Finned-Tube, Gas Domestic Water Heaters (22 34 36)

22 34 36 26-0001	Laars Rheos+ 90% Efficient, Gas Fired, Copper Fin Tube Condensing Water Heaters <small>(22 34 36 26)</small>		
22 34 36 26-0002	EA 1,200 MBH 90% Efficient, Gas Fired, Copper Fin Tube Condensing Water Heater (Laars Rheos+)	37,903.26	2,143.80
22 34 36 26-0003	EA 1,600 MBH 90% Efficient, Gas Fired, Copper Fin Tube Condensing Water Heater (Laars Rheos+)	53,223.61	2,369.45
22 34 36 26-0004	EA 2,000 MBH 90% Efficient, Gas Fired, Copper Fin Tube Condensing Water Heater (Laars Rheos+)	57,710.34	2,482.28
22 34 36 26-0005	EA 2,400 MBH 90% Efficient, Gas Fired, Copper Fin Tube Condensing Water Heater (Laars Rheos+)	62,515.87	2,707.95

22 34 36 26-0006	Laars Rheos 86% Efficient Gas Fired, Copper Fin Tube LoNox Water Heaters <small>(22 34 36 26)</small>		
22 34 36 26-0007	EA 1,200 MBH 86% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Rheos)	33,728.93	2,143.80
22 34 36 26-0008	EA 1,600 MBH 86% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Rheos)	37,262.20	2,369.45
22 34 36 26-0009	EA 2,000 MBH 86% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Rheos)	40,684.20	2,482.28
22 34 36 26-0010	EA 2,400 MBH 86% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Rheos)	44,207.90	2,707.95

22 34 36 26-0011	Laars Pennant 85% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heaters <small>(22 34 36 26)</small>		
22 34 36 26-0012	EA 200 MBH 85% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Pennant)	8,883.99	1,015.48
22 34 36 26-0013	EA 300 MBH 85% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Pennant)	9,779.05	1,128.31
22 34 36 26-0014	EA 400 MBH 85% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Pennant)	11,498.93	1,353.97
22 34 36 26-0015	EA 500 MBH 85% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Pennant)	15,977.12	1,410.39
22 34 36 26-0016	EA 750 MBH 85% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Pennant)	17,668.82	1,692.47
22 34 36 26-0017	EA 1,000 MBH 85% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Pennant)	21,763.53	2,030.97
22 34 36 26-0018	EA 1,250 MBH 85% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Pennant)	24,660.35	2,143.80
22 34 36 26-0019	EA 1,500 MBH 85% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Pennant)	27,303.92	2,313.04
22 34 36 26-0020	EA 1,750 MBH 85% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Pennant)	29,756.96	2,425.87
22 34 36 26-0021	EA 2,000 MBH 85% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Pennant)	31,879.01	2,482.28

22 34 36 26-0022	Patterson Kelley Thermific Sealed Combustion, Gas Fired, Copper Fin Tube Water Heaters <small>(22 34 36 26)</small>		
22 34 36 26-0023	EA 700 MBH 85% Efficient, Sealed Combustion, Gas Fired, Copper Fin Tube Water Heater (Patterson Kelley Thermific)	24,670.83	1,692.47
22 34 36 26-0024	EA 1,000 MBH 85% Efficient, Sealed Combustion, Gas Fired, Copper Fin Tube Water Heater (Patterson Kelley Thermific)	27,291.84	2,030.97
22 34 36 26-0025	EA 1,500 MBH 85% Efficient, Sealed Combustion, Gas Fired, Copper Fin Tube Water Heater (Patterson Kelley Thermific)	32,608.82	2,313.04
22 34 36 26-0026	EA 1,700 MBH 85% Efficient, Sealed Combustion, Gas Fired, Copper Fin Tube Water Heater (Patterson Kelley Thermific)	33,635.57	2,425.87
22 34 36 26-0027	EA 2,000 MBH 85% Efficient, Sealed Combustion, Gas Fired, Copper Fin Tube Water Heater (Patterson Kelley Thermific)	35,154.62	2,482.28

22 34 36 26-0028	Patterson Kelley Modufire Forced Draft, Water, Gas Fired, Copper Fin Tube Water Heaters <small>(22 34 36 26)</small>		
22 34 36 26-0029	EA 1,000 MBH 85% Efficient, Forced Draft, Gas Fired, Copper Fin Tube Water Heater (Patterson Kelley Modufire)	29,669.37	2,030.97
22 34 36 26-0030	EA 1,500 MBH 85% Efficient, Forced Draft, Gas Fired, Copper Fin Tube Water Heater (Patterson Kelley Modufire)	35,763.67	2,313.04
22 34 36 26-0031	EA 2,000 MBH 85% Efficient, Forced Draft, Gas Fired, Copper Fin Tube Water Heater (Patterson Kelley Modufire)	37,977.20	2,482.28

22 34 46 Oil-Fired Domestic Water Heaters (22 34)

22 Plumbing**22 30 Plumbing Equipment****22 34 Fuel-Fired Domestic Water Heaters**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

22 34 46 11 Standard-capacity, Oil-Fired Domestic Water Heaters (22 34 46)**22 34 46 11-0001 Oil-Fired Domestic Water Heaters (Bock) (22 34 46 11)**

Note: Includes burner, glass lined tank, drain valve, temperature and pressure relief valve and vent connection.
Excludes vent.

22 34 46 11-0002	EA	60 MBH, 20 Gallon, Oil-Fired Domestic Water Heater (Bock 20E).....	2,310.80	235.82
22 34 46 11-0003	EA	104 MBH, 32 Gallon, Oil-Fired Domestic Water Heater (Bock 32E).....	2,280.57	235.82
22 34 46 11-0004	EA	104 MBH, 33 Gallon, Oil-Fired Domestic Water Heater (Bock 33ES).....	2,377.70	235.82
22 34 46 11-0005	EA	125 MBH, 40 Gallon, Oil-Fired Domestic Water Heater (Bock 40E).....	2,508.77	241.94
22 34 46 11-0006	EA	140 MBH, 50 Gallon, Oil-Fired Domestic Water Heater (Bock 50ES).....	3,174.68	248.08
22 34 46 11-0007	EA	152 MBH, 50 Gallon, Oil-Fired Domestic Water Heater (Bock 51E).....	2,694.37	248.08

22 34 46 11-0008 Oil Fired Commercial Water Heaters (22 34 46 11)

Note: Includes burner, glass lined tank, drain valve, temperature and pressure relief valve and vent connection.
Excludes vent.

22 34 46 11-0009	EA	173 MBH, 68 Gallon, Oil-Fired Commercial Water Heater (Bock 71E).....	3,741.09	367.51
22 34 46 11-0010	EA	199 MBH, 67 Gallon, Oil-Fired Commercial Water Heater (Bock 72E).....	4,373.44	367.51
22 34 46 11-0011	EA	242 MBH, 67 Gallon, Oil-Fired Commercial Water Heater (Bock 73E).....	4,397.77	367.51
22 34 46 11-0012	EA	190 MBH, 113 Gallon, Oil-Fired Commercial Water Heater (Bock 120E).....	6,321.88	490.02
22 34 46 11-0013	EA	415 MBH, 91 Gallon, Oil-Fired Commercial Water Heater (Bock 361E).....	8,653.50	612.52
22 34 46 11-0014	EA	623 MBH, 83 Gallon, Oil-Fired Commercial Water Heater (Bock 541E).....	10,862.40	673.78

22 35 Domestic Water Heat Exchangers (22 30)**22 35 23 Circulating, Domestic Water Heat Exchangers (22 35)****22 35 23 13 Circulating, Compact Domestic Water Heat Exchangers (22 35 23)****22 35 23 13-0001 Steam Driven Water Heaters (22 35 23 13)****22 35 23 13-0002 Constant Flow (22 35 23 13-0001)**

22 35 23 13-0003	EA	30 GPM, 700 LB/Hour Steam Water Heater, Constant Flow	6,651.81	765.66
22 35 23 13-0004	EA	90 GPM, 1,250 LB/Hour Steam Water Heater, Constant Flow	8,298.00	938.24
22 35 23 13-0005	EA	140 GPM, 2,500 LB/Hour Steam Water Heater, Constant Flow	10,646.84	1,227.04
22 35 23 13-0006	EA	230 GPM, 5,000 LB/Hour Steam Water Heater, Constant Flow	14,434.11	1,709.10
22 35 23 13-0007	EA	500 GPM, 7,500 LB/Hour Steam Water Heater, Constant Flow	21,461.87	2,814.86
22 35 23 13-0008	EA	900 GPM, 10,000 LB/Hour Steam Water Heater, Constant Flow	23,458.04	3,190.19
22 35 23 13-0009	EA	1,400 GPM, 15,000 LB/Hour Steam Water Heater, Constant Flow	30,501.23	3,680.97
22 35 23 13-0010	EA	2,400 GPM, 20,000 LB/Hour Steam Water Heater, Constant Flow	36,655.83	4,350.31

22 35 23 13-0011 Variable Flow (22 35 23 13-0001)

22 35 23 13-0012	EA	30 GPM, 700 LB/Hour Steam Water Heater, Variable Flow	10,210.24	1,493.03
22 35 23 13-0013	EA	90 GPM, 1,250 LB/Hour Steam Water Heater, Variable Flow	11,645.05	1,823.02
22 35 23 13-0014	EA	140 GPM, 2,500 LB/Hour Steam Water Heater, Variable Flow	14,872.60	2,357.30
22 35 23 13-0015	EA	230 GPM, 5,000 LB/Hour Steam Water Heater, Variable Flow	19,614.34	3,288.96
22 35 23 13-0016	EA	500 GPM, 7,500 LB/Hour Steam Water Heater, Variable Flow	29,600.71	5,500.47
22 35 23 13-0017	EA	900 GPM, 10,000 LB/Hour Steam Water Heater, Variable Flow	35,669.14	6,057.42
22 35 23 13-0018	EA	1,400 GPM, 15,000 LB/Hour Steam Water Heater, Variable Flow	41,359.02	7,089.37
22 35 23 13-0019	EA	2,400 GPM, 20,000 LB/Hour Steam Water Heater, Variable Flow	52,090.88	8,469.70

END OF SECTION 22



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
------------------------------	---------------------------	-------------------------

23 Heating, Ventilating, and Air-Conditioning (HVAC)

Note: Where required, mechanical equipment excludes electrical connection unless title states otherwise. HVAC equipment shall conform to California Title 24.

23 01 Operation and Maintenance of HVAC Systems ⁽²³⁾

23 01 10 Operation and Maintenance of Facility Fuel Systems ^(23 01)

23 01 10 91 Facility Fuel Systems Restoration ^(23 01 10)

23 01 10 91-0001 Purge Gas Systems ^(23 01 10 91)

Note: Includes collection and refilling/bleeding of system. For natural gas, flammable gases and other gases that should not be released inside the building. See CSI section 23 01 60 71-0001 for refrigerant.

23 01 10 91-0002	EA	Up To 100', Up To 1-1/2" Diameter Pipe, Purge Gas Systems.....	707.14
23 01 10 91-0003	EA	>100' To 250', Up To 1-1/2" Diameter Pipe, Purge Gas Systems.....	1,009.89
23 01 10 91-0004	EA	>250' To 500', Up To 1-1/2" Diameter Pipe, Purge Gas Systems.....	1,059.97
23 01 10 91-0005	EA	>500' To 1,000', Up To 1-1/2" Diameter Pipe, Purge Gas Systems.....	1,168.44
23 01 10 91-0006	EA	>1,000' To 2,000', Up To 1-1/2" Diameter Pipe, Purge Gas Systems.....	2,115.97
23 01 10 91-0007	EA	Up To 100', >1-1/2" To 4" Diameter Pipe, Purge Gas Systems.....	949.78
23 01 10 91-0008	EA	>100' To 250', >1-1/2" To 4" Diameter Pipe, Purge Gas Systems.....	1,363.65
23 01 10 91-0009	EA	>250' To 500', >1-1/2" To 4" Diameter Pipe, Purge Gas Systems.....	1,440.91
23 01 10 91-0010	EA	>500' To 1,000', >1-1/2" To 4" Diameter Pipe, Purge Gas Systems.....	1,607.52
23 01 10 91-0011	EA	>1,000' To 2,000', >1-1/2" To 4" Diameter Pipe, Purge Gas Systems.....	2,920.48
23 01 10 91-0012	EA	Up To 100', >4" To 10" Diameter Pipe, Purge Gas Systems.....	1,119.97
23 01 10 91-0013	EA	>100' To 250', >4" To 10" Diameter Pipe, Purge Gas Systems.....	1,641.85
23 01 10 91-0014	EA	>250' To 500', >4" To 10" Diameter Pipe, Purge Gas Systems.....	3,789.07
23 01 10 91-0015	EA	>500' To 1,000', >4" To 10" Diameter Pipe, Purge Gas Systems.....	5,904.51
23 01 10 91-0016	EA	>1,000' To 2,000', >4" To 10" Diameter Pipe, Purge Gas Systems.....	11,088.63

23 01 20 Operation and Maintenance of HVAC Piping and Pumps ^(23 01)

23 01 20 91 HVAC Piping and Pumps Restoration ^(23 01 20)

23 01 20 91-0001 Lock Out/Tag Out System ^(23 01 20 91)

23 01 20 91-0002	EA	Up To 1", Lock Out/Tag Out Valve.....	38.28
		Note: Excludes tag or padlock See CSI section 23 01 20 91-0007 for padlock, 23 01 20 91-0008 for tag(s).	
23 01 20 91-0003	EA	>1" To 3", Lock Out/Tag Out Valve.....	45.94
		Note: Excludes tag or padlock See CSI section 23 01 20 91-0007 for padlock, 23 01 20 91-0008 for tag(s).	
23 01 20 91-0004	EA	>3" To 6", Lock Out/Tag Out Valve.....	53.60
		Note: Excludes tag or padlock See CSI section 23 01 20 91-0007 for padlock, 23 01 20 91-0008 for tag(s).	
23 01 20 91-0005	EA	>6" To 10", Lock Out/Tag Out Valve.....	61.25
		Note: Excludes tag or padlock See CSI section 23 01 20 91-0007 for padlock, 23 01 20 91-0008 for tag(s).	
23 01 20 91-0006	EA	>10" To 14", Lock Out/Tag Out Valve.....	76.57
		Note: Excludes tag or padlock See CSI section 23 01 20 91-0007 for padlock, 23 01 20 91-0008 for tag(s).	
23 01 20 91-0007	EA	Lock Out Padlock.....	15.31
23 01 20 91-0008	EA	Lock Out Tags.....	5.73

23 01 20 91-0009 Freeze Pipe Using CO2 Kit ^(23 01 20 91)

Note: For use on chilled water or cold water piping systems. Excludes cutting existing pipe, and installation of valve or fittings.

23 01 20 91-0010	EA	Up To 2" Freeze Pipe Using CO2 Kit.....	408.26
------------------	----	---	--------

23 01 20 91-0011 Pipe Freezing ^(23 01 20 91)

Note: For use on any water piping systems. Excludes excavation, cutting existing pipe, and installation of valve or fittings.

23 01 20 91-0012	EA	Up To 1" Pipe Freezing, First Location.....	805.75
		Note: Includes freezing on each side of valve or fitting.	
23 01 20 91-0013	EA	Up To 1" Pipe Freezing, Each Additional Location After First.....	444.84
		Note: Includes freezing on each side of valve or fitting.	
23 01 20 91-0014	EA	>1" To 1-1/2" Pipe Freezing, First Location.....	972.69
		Note: Includes freezing on each side of valve or fitting.	
23 01 20 91-0015	EA	>1" To 1-1/2" Pipe Freezing, Each Additional Location After First.....	513.60
		Note: Includes freezing on each side of valve or fitting.	
23 01 20 91-0016	EA	>1-1/2" To 2" Pipe Freezing, First Location.....	1,326.85
		Note: Includes freezing on each side of valve or fitting.	
23 01 20 91-0017	EA	>1-1/2" To 2" Pipe Freezing, Each Additional Location After First.....	582.59
		Note: Includes freezing on each side of valve or fitting.	
23 01 20 91-0018	EA	>2" To 3" Pipe Freezing, First Location.....	1,512.49
		Note: Includes freezing on each side of valve or fitting.	
23 01 20 91-0019	EA	>2" To 3" Pipe Freezing, Each Additional Location After First.....	683.15
		Note: Includes freezing on each side of valve or fitting.	
23 01 20 91-0020	EA	>3" To 4" Pipe Freezing, First Location.....	2,195.45
		Note: Includes freezing on each side of valve or fitting.	
23 01 20 91-0021	EA	>3" To 4" Pipe Freezing, Each Additional Location After First.....	789.21
		Note: Includes freezing on each side of valve or fitting.	
23 01 20 91-0022	EA	>4" To 6" Pipe Freezing, First Location.....	4,453.89
		Note: Includes freezing on each side of valve or fitting.	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 01 Operation and Maintenance of HVAC Systems****23 01 20 Operation and Maintenance of HVAC Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 01 20 91-0023 EA >4" To 6" Pipe Freezing, Each Additional Location After First Note: Includes freezing on each side of valve or fitting.	1,026.18	
23 01 20 91-0024 EA >6" To 8" Pipe Freezing, First Location Note: Includes freezing on each side of valve or fitting.	5,925.37	
23 01 20 91-0025 EA >6" To 8" Pipe Freezing, Each Additional Location After First Note: Includes freezing on each side of valve or fitting.	1,498.15	
23 01 20 91-0026 EA >8" To 10" Pipe Freezing, First Location Note: Includes freezing on each side of valve or fitting.	8,160.11	
23 01 20 91-0027 EA >8" To 10" Pipe Freezing, Each Additional Location After First Note: Includes freezing on each side of valve or fitting.	2,031.19	
23 01 20 91-0028 EA >10" To 12" Pipe Freezing, First Location Note: Includes freezing on each side of valve or fitting.	10,492.60	
23 01 20 91-0029 EA >10" To 12" Pipe Freezing, Each Additional Location After First Note: Includes freezing on each side of valve or fitting.	2,624.58	
23 01 20 91-0030 Water/Chlorine Pipe Disinfection/Flush/Testing (23 01 20 91) Note: For existing piping when required. Water/chlorine solution per specification entitled "Water Distribution".		
23 01 20 91-0031 LF Up To 1", Water/Chlorine Pipe Disinfection/Flush/Testing	2.53	
For >250 To 500, Deduct	-0.19	
For >500 To 2000, Deduct	-0.48	
For >2000, Deduct	-0.69	
23 01 20 91-0032 LF >1" To 2", Water/Chlorine Pipe Disinfection/Flush/Testing	3.48	
For >250 To 500, Deduct	-0.26	
For >500 To 2000, Deduct	-0.64	
For >2000, Deduct	-0.93	
23 01 20 91-0033 LF >2" To 3", Water/Chlorine Pipe Disinfection/Flush/Testing	5.36	
For >250 To 500, Deduct	-0.38	
For >500 To 2000, Deduct	-0.96	
For >2000, Deduct	-1.39	
23 01 20 91-0034 LF 4", Water/Chlorine Pipe Disinfection/Flush/Testing	7.39	
For >250 To 500, Deduct	-0.51	
For >500 To 2000, Deduct	-1.28	
For >2000, Deduct	-1.85	
23 01 20 91-0035 LF 6", Water/Chlorine Pipe Disinfection/Flush/Testing	9.11	
For >250 To 500, Deduct	-0.61	
For >500 To 2000, Deduct	-1.53	
For >2000, Deduct	-2.22	
23 01 20 91-0036 LF 8", Water/Chlorine Pipe Disinfection/Flush/Testing	11.52	
For >250 To 500, Deduct	-0.77	
For >500 To 2000, Deduct	-1.91	
For >2000, Deduct	-2.78	
23 01 20 91-0037 LF 10", Water/Chlorine Pipe Disinfection/Flush/Testing	15.16	
For >250 To 500, Deduct	-1.02	
For >500 To 2000, Deduct	-2.55	
For >2000, Deduct	-3.70	
23 01 20 91-0038 LF 12", Water/Chlorine Pipe Disinfection/Flush/Testing	18.20	
For >250 To 500, Deduct	-1.22	
For >500 To 2000, Deduct	-3.06	
For >2000, Deduct	-4.44	
23 01 20 91-0039 Shut Down Existing Piping System (23 01 20 91)		
23 01 20 91-0040 EA Shut Down Existing Interior Piping System Note: Includes lock out/tag out and average line tracing. Use when valves are greater than 25' from work. When the shut-off valves for multiple lines are located with a 10' radius, the quantity used shall be one.	311.73	
23 01 20 91-0041 Purge Liquid Systems (23 01 20 91) Note: Includes collection of liquid, refilling with liquid and bleeding of air from system.		
23 01 20 91-0042 EA Up To 50', Up To 3/4" Diameter Pipe, Purge Liquid System	242.02	
23 01 20 91-0043 EA >50' To 100', Up To 3/4" Diameter Pipe, Purge Liquid System	302.53	
23 01 20 91-0044 EA >100 To 250', Up To 3/4" Diameter Pipe, Purge Liquid System	431.81	
23 01 20 91-0045 EA >250 To 500', Up To 3/4" Diameter Pipe, Purge Liquid System	517.44	
23 01 20 91-0046 EA >500 To 1,000', Up To 3/4" Diameter Pipe, Purge Liquid System	646.80	
23 01 20 91-0047 EA >1,000 To 2,000', Up To 3/4" Diameter Pipe, Purge Liquid System	840.84	
23 01 20 91-0048 LF >2,000', Up To 3/4" Diameter Pipe, Purge Liquid System	0.42	
23 01 20 91-0049 EA Up To 100', >3/4" To 1-1/2" Diameter Pipe, Purge Liquid System	504.00	
23 01 20 91-0050 EA >100 To 250', >3/4" To 1-1/2" Diameter Pipe, Purge Liquid System	719.82	
23 01 20 91-0051 EA >250 To 500', >3/4" To 1-1/2" Diameter Pipe, Purge Liquid System	862.49	
23 01 20 91-0052 EA >500 To 1,000', >3/4" To 1-1/2" Diameter Pipe, Purge Liquid System	1,078.11	
23 01 20 91-0053 EA >1,000 To 2,000', >3/4" To 1-1/2" Diameter Pipe, Purge Liquid System	1,401.55	
23 01 20 91-0054 LF >2,000', >3/4" To 1-1/2" Diameter Pipe, Purge Liquid System	0.70	
23 01 20 91-0055 EA Up To 100', >1-1/2" To 3" Diameter Pipe, Purge Liquid System	705.62	
23 01 20 91-0056 EA >100 To 250', >1-1/2" To 3" Diameter Pipe, Purge Liquid System	1,007.76	
23 01 20 91-0057 EA >250 To 500', >1-1/2" To 3" Diameter Pipe, Purge Liquid System	1,207.49	
23 01 20 91-0058 EA >500 To 1,000', >1-1/2" To 3" Diameter Pipe, Purge Liquid System	1,509.36	
23 01 20 91-0059 EA >1,000 To 2,000', >1-1/2" To 3" Diameter Pipe, Purge Liquid System	1,962.17	
23 01 20 91-0060 LF >2,000', >1-1/2" To 3" Diameter Pipe, Purge Liquid System	0.99	
23 01 20 91-0061 EA Up To 100', >3" To 6" Diameter Pipe, Purge Liquid System	970.21	
23 01 20 91-0062 EA >100 To 250', >3" To 6" Diameter Pipe, Purge Liquid System	1,385.67	
23 01 20 91-0063 EA >250 To 500', >3" To 6" Diameter Pipe, Purge Liquid System	1,470.94	
23 01 20 91-0064 EA >500 To 1,000', >3" To 6" Diameter Pipe, Purge Liquid System	1,838.68	
23 01 20 91-0065 EA >1,000 To 2,000', >3" To 6" Diameter Pipe, Purge Liquid System	2,390.28	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 01 20 91-0066	LF		>2,000', >3" To 6" Diameter Pipe, Purge Liquid System.....	1.20	
23 01 20 91-0067	EA		Up To 100', >6" To 10" Diameter Pipe, Purge Liquid System	1,309.79	
23 01 20 91-0068	EA		>100 To 250', >6" To 10" Diameter Pipe, Purge Liquid System	1,870.64	
23 01 20 91-0069	EA		>250 To 500', >6" To 10" Diameter Pipe, Purge Liquid System	1,985.77	
23 01 20 91-0070	EA		>500 To 1,000', >6" To 10" Diameter Pipe, Purge Liquid System	2,482.21	
23 01 20 91-0071	EA		>1,000 To 2,000', >6" To 10" Diameter Pipe, Purge Liquid System	3,226.87	
23 01 20 91-0072	LF		>2,000', >6" To 10" Diameter Pipe, Purge Liquid System.....	1.61	
23 01 20 91-0073			Special Cleaning Of Piping Systems (23 01 20 91)		
23 01 20 91-0074			Trisodium Phosphate-Caustic Pipe Disinfection/Flush/Testing (23 01 20 91-0073)		
23 01 20 91-0075	LF		Up To 1", Trisodium Phosphate-Caustic Pipe Disinfection/Flush/Testing.....	3.18	
			For >250 To 500, Deduct	-0.22	
			For >500 To 2000, Deduct	-0.55	
			For >2000, Deduct	-0.79	
23 01 20 91-0076	LF		>1" To 2", Trisodium Phosphate-Caustic Pipe Disinfection/Flush/Testing	5.30	
			For >250 To 500, Deduct	-0.35	
			For >500 To 2000, Deduct	-0.88	
			For >2000, Deduct	-1.28	
23 01 20 91-0077	LF		>2" To 3", Trisodium Phosphate-Caustic Pipe Disinfection/Flush/Testing	7.43	
			For >250 To 500, Deduct	-0.49	
			For >500 To 2000, Deduct	-1.22	
			For >2000, Deduct	-1.76	
23 01 20 91-0078	LF		>3" To 4", Trisodium Phosphate-Caustic Pipe Disinfection/Flush/Testing	9.61	
			For >250 To 500, Deduct	-0.62	
			For >500 To 2000, Deduct	-1.56	
			For >2000, Deduct	-2.26	
23 01 20 91-0079	LF		>4" To 6", Trisodium Phosphate-Caustic Pipe Disinfection/Flush/Testing	13.34	
			For >250 To 500, Deduct	-0.88	
			For >500 To 2000, Deduct	-2.19	
			For >2000, Deduct	-3.17	
23 01 20 91-0080			Acrysol Qr-1086 and Dequest 2010 Pipe Disinfection/Flush/Testing (23 01 20 91-0073)		
23 01 20 91-0081	LF		Up To 1", Acrysol Qr-1086 and Dequest 2010 Pipe Disinfection/Flush/Testing.....	3.42	
			For >250 To 500, Deduct	-0.22	
			For >500 To 2000, Deduct	-0.55	
			For >2000, Deduct	-0.79	
23 01 20 91-0082	LF		>1" To 2", Acrysol Qr-1086 and Dequest 2010 Pipe Disinfection/Flush/Testing	5.60	
			For >250 To 500, Deduct	-0.35	
			For >500 To 2000, Deduct	-0.88	
			For >2000, Deduct	-1.28	
23 01 20 91-0083	LF		>2" To 3", Acrysol Qr-1086 and Dequest 2010 Pipe Disinfection/Flush/Testing	7.85	
			For >250 To 500, Deduct	-0.49	
			For >500 To 2000, Deduct	-1.22	
			For >2000, Deduct	-1.76	
23 01 20 91-0084	LF		>3" To 4", Acrysol Qr-1086 and Dequest 2010 Pipe Disinfection/Flush/Testing	10.24	
			For >250 To 500, Deduct	-0.62	
			For >500 To 2000, Deduct	-1.56	
			For >2000, Deduct	-2.26	
23 01 20 91-0085	LF		>4" To 6", Acrysol Qr-1086 and Dequest 2010 Pipe Disinfection/Flush/Testing	14.18	
			For >250 To 500, Deduct	-0.88	
			For >500 To 2000, Deduct	-2.19	
			For >2000, Deduct	-3.17	
23 01 20 91-0086			Drewspers 4945/4395 Pipe Disinfection/Flush/Testing (23 01 20 91-0073)		
23 01 20 91-0087	LF		Up To 1", Drewspers 4945/4395 Pipe Disinfection/Flush/Testing.....	3.49	
			For >250 To 500, Deduct	-0.22	
			For >500 To 2000, Deduct	-0.55	
			For >2000, Deduct	-0.79	
23 01 20 91-0088	LF		>1" To 2", Drewspers 4945/4395 Pipe Disinfection/Flush/Testing	5.72	
			For >250 To 500, Deduct	-0.35	
			For >500 To 2000, Deduct	-0.88	
			For >2000, Deduct	-1.28	
23 01 20 91-0089	LF		>2" To 3", Drewspers 4945/4395 Pipe Disinfection/Flush/Testing	8.03	
			For >250 To 500, Deduct	-0.49	
			For >500 To 2000, Deduct	-1.22	
			For >2000, Deduct	-1.76	
23 01 20 91-0090	LF		>3" To 4", Drewspers 4945/4395 Pipe Disinfection/Flush/Testing	10.48	
			For >250 To 500, Deduct	-0.62	
			For >500 To 2000, Deduct	-1.56	
			For >2000, Deduct	-2.26	
23 01 20 91-0091	LF		>4" To 6", Drewspers 4945/4395 Pipe Disinfection/Flush/Testing	14.50	
			For >250 To 500, Deduct	-0.88	
			For >500 To 2000, Deduct	-2.19	
			For >2000, Deduct	-3.17	
23 01 20 91-0092			Add-A-Valve Emergency Shut Off Device (23 01 20 91)		
23 01 20 91-0093	EA		1/2" Add-A-Valve Emergency Shut Off Device (Jomar 800-103ADD)	405.42	
23 01 20 91-0094	EA		3/4" Add-A-Valve Emergency Shut Off Device (Jomar 800-104ADD)	509.78	
23 01 20 91-0095	EA		1" Add-A-Valve Emergency Shut Off Device (Jomar 800-105ADD)	703.34	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 01 Operation and Maintenance of HVAC Systems****23 01 20 Operation and Maintenance of HVAC Piping and Pumps**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

23 01 20 91-0096	EA	1-1/4" Add-A-Valve Emergency Shut Off Device (Jomar 800-106ADD)	1,069.77
23 01 20 91-0097	EA	1-1/2" Add-A-Valve Emergency Shut Off Device (Jomar 800-107ADD)	1,318.75
23 01 20 91-0098	EA	2" Add-A-Valve Emergency Shut Off Device (Jomar 800-108ADD)	1,983.17

23 01 30 Operation and Maintenance of HVAC Air Distribution (23 01)**23 01 30 51 HVAC Air-Distribution System Cleaning (23 01 30)****23 01 30 51-0001 Cleaning Of Ductwork And HVAC Equipment (23 01 30 51)**

23 01 30 51-0002	LF	Up To 2 SF Cross Section, Clean Supply/Return Ductwork	4.75
		Note: Includes sealing registers, grilles, diffusers as required. Excludes cleaning of registers, grilles, diffusers, or other devices.	
		<i>For Exhaust Ductwork, Add</i>	1.19
23 01 30 51-0003	LF	>2 SF To 4 SF Cross Section, Clean Supply/Return Ductwork	5.95
		Note: Includes sealing registers, grilles, diffusers as required. Excludes cleaning of registers, grilles, diffusers, or other devices.	
		<i>For Exhaust Ductwork, Add</i>	1.49
23 01 30 51-0004	LF	>4 SF To 8 SF Cross Section, Clean Supply/Return Ductwork	7.97
		Note: Includes sealing registers, grilles, diffusers as required. Excludes cleaning of registers, grilles, diffusers, or other devices.	
		<i>For Exhaust Ductwork, Add</i>	1.99
23 01 30 51-0005	LF	>8 SF Cross Section, Clean Supply/Return Ductwork	11.29
		Note: Includes sealing registers, grilles, diffusers as required. Excludes cleaning of registers, grilles, diffusers, or other devices.	
		<i>For Exhaust Ductwork, Add</i>	2.82
23 01 30 51-0006	SF	Clean Duct Dampers	16.00
23 01 30 51-0007	SF	Clean Duct Fire Dampers	32.00
23 01 30 51-0008	SF	Clean Louver	12.80
23 01 30 51-0009	EA	Clean Turning Vane Set	38.40
23 01 30 51-0010	EA	Clean Grille/Diffuser/Register	38.40
		Note: Includes removal and reinstallation.	
23 01 30 51-0011	LF	Clean Linear Diffuser	9.60
		Note: Includes removal and reinstallation.	
23 01 30 51-0012	EA	Cut Access For Cleaning Duct And Install Duct Insulated Access Doors	127.29
		<i>For Stainless Steel, Add</i>	82.00
23 01 30 51-0013	EA	Clean Variable Air Volume (VAV) Unit	115.20
23 01 30 51-0014	EA	Clean Fan Powered Induction Unit (PIU) Unit	153.58
23 01 30 51-0015	EA	Clean Fan Coil Unit (FCU)	153.58
23 01 30 51-0016	EA	Clean Packaged Terminal Air Conditioning Unit	153.58
23 01 30 51-0017	EA	Clean Supply Or Return Fan	307.18
23 01 30 51-0018	EA	Clean Exhaust Fan	268.78
23 01 30 51-0019	EA	Clean Duct Coil	230.38
23 01 30 51-0020	SF	Clean Air Handling Unit Interior Housing With High Efficiency Particulate Air (HEPA) Vacuum	7.68
		Note: Excluding fan and coils.	
23 01 30 51-0021	EA	Clean Air Handling Unit Fan	307.18
23 01 30 51-0022	EA	Clean Air Handling Unit Coil	460.76
23 01 30 51-0023	SF	Clean Equipment Surfaces, Rust Reform And Prime	3.99
23 01 30 51-0024	SF	Clean Interior Equipment Surfaces, Rust Reform And Prime	4.75
23 01 30 51-0025	SF	High Efficiency Particulate Air (HEPA) Vacuuming Of Walls, Ceilings And Floors In Mechanical Rooms	0.66
23 01 30 51-0026	EA	Cleaning Of Ductwork Minimum Set-up Charge	1,033.12
		Note: For projects where the total charges are less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.	
23 01 30 51-0027	SF	Apply Anti-microbial Agent To Ductwork And Surfaces After Cleaning	0.67

23 01 30 61 HVAC Air-Distribution Duct Repair (23 01 30)**23 01 30 61-0001 Repair And Seal Ductwork (23 01 30 61)**

Note: Includes removal of existing insulation, repair/seal ductwork with Duct Sealer and reinstallation of insulation. Excludes new ductwork.

23 01 30 61-0002	SF	Repair And Sealing Of Ductwork	2.68
		Note: Clean, apply sealant and tape	

23 01 50 Operation and Maintenance of Central Heating Equipment (23 01)**23 01 50 61 Central Heating Equipment Repair (23 01 50)****23 01 50 61-0001 Boiler Repairs (23 01 50 61)****23 01 50 61-0002 Setup And Maintenance (23 01 50 61-0001)**

23 01 50 61-0003	EA	Set-up Charge For Boiler Fire Side Maintenance	3,116.11
		Note: Includes removing/relocating doors, plates, portals, and burners required to access fireside.	
23 01 50 61-0004	EA	Close-up Charge For Boiler Fire Side Maintenance	3,351.48
		Note: Includes replacement of doors, plates, portals, burners, adhesive, rope, wool, and seals.	
		<i>For Burner Seals, Add</i>	711.61
		Note: Used when burner must be removed from door for maintenance.	
23 01 50 61-0005	EA	Setup Charge For Boiler Water Side Maintenance	4,154.82
		Note: Includes closing valves, draining, and positioning equipment needed for tube replacement.	
23 01 50 61-0006	EA	Up To 100 HP, Hydrostatic Test - Boiler Maintenance	2,077.41
		Note: Includes close-up charge for water side maintenance, blanking off supply, return, and relief valves for test and reconnection after test.	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 01 50 61-0007 EA >100 HP, Hydrostatic Test - Boiler Maintenance Note: Includes close-up charge for water side maintenance, blanking off supply, return, and relief valves for test and reconnection after test.	4,154.82	
23 01 50 61-0008 EA Removal And Replacement Of Handhole	129.84	
23 01 50 61-0009 EA Removal And Replacement Of Manhole	389.52	
23 01 50 61-0010 SF Sheet Metal Jacket Patch	14.60	
23 01 50 61-0011 Boiler Tube Replacement (23 01 50 61-0001)		
23 01 50 61-0012 EA Removal Of Up To 2" Boiler Tube	311.61	
23 01 50 61-0013 EA Removal Of >2" To 3" Boiler Tube.....	389.53	
23 01 50 61-0014 EA Removal Of >3" To 4" Boiler Tube.....	545.31	
23 01 50 61-0015 LF Place 1-1/2" Boiler Tube Into Position For Termination Note: Includes black steel tube, fasteners and accessories.	19.22	
23 01 50 61-0016 LF Place 2" Boiler Tube Into Position For Termination Note: Includes black steel tube, fasteners and accessories.	22.61	
23 01 50 61-0017 LF Place 2-1/2" Boiler Tube Into Position For Termination Note: Includes black steel tube, fasteners and accessories.	26.05	
23 01 50 61-0018 LF Place 3" Boiler Tube Into Position For Termination Note: Includes black steel tube, fasteners and accessories.	39.02	
23 01 50 61-0019 LF Place 3-1/2" Boiler Tube Into Position For Termination Note: Includes black steel tube, fasteners and accessories.	46.19	
23 01 50 61-0020 LF Place 4" Boiler Tube Into Position For Termination Note: Includes black steel tube, fasteners and accessories.	60.26	
23 01 50 61-0021 EA 1-1/2" Rolled Boiler Tube Termination (2 Per New Tube).....	38.95	
23 01 50 61-0022 EA 2" Rolled Boiler Tube Termination (2 Per New Tube).....	58.43	
23 01 50 61-0023 EA 2-1/2" Rolled Boiler Tube Termination (2 Per New Tube).....	77.90	
23 01 50 61-0024 EA 3" Rolled Boiler Tube Termination (2 Per New Tube).....	97.38	
23 01 50 61-0025 EA 3-1/2" Rolled Boiler Tube Termination (2 Per New Tube).....	116.86	
23 01 50 61-0026 EA 4" Rolled Boiler Tube Termination (2 Per New Tube).....	136.33	
23 01 50 61-0027 EA 1-1/2" Welded Boiler Tube Termination (2 Per New Tube).....	116.86	
23 01 50 61-0028 EA 2" Welded Boiler Tube Termination (2 Per New Tube).....	155.81	
23 01 50 61-0029 EA 2-1/2" Welded Boiler Tube Termination (2 Per New Tube).....	194.76	
23 01 50 61-0030 EA 3" Welded Boiler Tube Termination (2 Per New Tube).....	233.71	
23 01 50 61-0031 EA 3-1/2" Welded Boiler Tube Termination (2 Per New Tube).....	272.66	
23 01 50 61-0032 EA 4" Welded Boiler Tube Termination (2 Per New Tube).....	311.61	
23 01 50 61-0033 EA Plug Boiler Tube Hole Where Boiler Tube Is Not Replaced.....	411.07	
23 01 50 61-0034 Cast Iron Boiler Section Replacement (23 01 50 61-0001)		
23 01 50 61-0035 EA Removal And Replacement Of Front Section Of Weil McLain Model 80 Cast Iron Boiler.....	3,184.29	
23 01 50 61-0036 EA Removal And Replacement Of Rear Section Of Weil McLain Model 80 Cast Iron Boiler	2,115.67	
23 01 50 61-0037 EA Removal And Replacement Of Inside Section Of Weil McLain Model 80 Cast Iron Boiler	2,807.35	
23 01 50 61-0038 EA Removal And Replacement Of Front Section Of Weil McLain Model 88 Cast Iron Boiler	5,724.75	
23 01 50 61-0039 EA Removal And Replacement Of Rear Section Of Weil McLain Model 88 Cast Iron Boiler	4,078.45	
23 01 50 61-0040 EA Removal And Replacement Of Inside Section Of Weil McLain Model 88 Cast Iron Boiler	5,003.78	
23 01 50 61-0041 EA Removal And Replacement Of Front Section Of Weil McLain Model 94 Cast Iron Boiler.....	9,111.24	
23 01 50 61-0042 EA Removal And Replacement Of Rear Section Of Weil McLain Model 94 Cast Iron Boiler	6,866.15	
23 01 50 61-0043 EA Removal And Replacement Of Inside Section Of Weil McLain Model 94 Cast Iron Boiler	7,741.40	
23 01 50 61-0044 Cast Iron Grate Replacement (23 01 50 61-0001)		
23 01 50 61-0045 SF Removal And Replacement Of Cast Iron Boiler Grates, Prepared From Casting Mold Note: Includes support, linkages and removal of existing.	157.31	
23 01 50 61-0046 EA Prepare Cast Iron Boiler Grate Mold..... Note: Includes preparing unique size mold for grate casting. Mold to be used for multiple castings.	2,153.31	
23 01 50 61-0047 Replacement Or Conversion Of Boiler Burners (23 01 50 61-0001)		
Note: Includes mounting plate, mechanical and electrical labor for installation of burners.		
23 01 50 61-0048 EA 700 MBH Max Input Burner With 2" Boiler Connection, Screwed.....	11,196.02	1,502.98
23 01 50 61-0049 EA 2,100 MBH Max Input Burner With 2-1/2" Boiler Connection, Screwed.....	16,059.76	1,860.80
23 01 50 61-0050 EA 2,800 MBH Max Input Burner With 3" Boiler Connection, Screwed.....	18,986.94	2,254.32
23 01 50 61-0051 EA 3,800 MBH Max Input Burner With 4" Boiler Connection, Flanged.....	22,324.24	2,425.59
23 01 50 61-0052 Boiler And Chiller Water Treatment (23 01 50 61)		
Note: 3 LB chemical per 50 gallon system water.		
23 01 50 61-0053 LB Boil Out Boiler And System With Caustic Soda Note: Includes disposal after treatment.	1.68	
23 01 50 61-0054 LB Boil Out Boiler And System With Trisodium Phosphate..... Note: Includes disposal after treatment.	2.52	
23 01 50 61-0055 GAL Corrosion Resistant Chemical Treatment, Based On Gallons Of Chemical Required.....	157.57	
23 01 60 Operation and Maintenance of Central Cooling Equipment (23 01)		
23 01 60 61 Central Cooling Equipment Repair (23 01 60)		
23 01 60 61-0001 Cooling Tower Repairs (23 01 60 61)		
23 01 60 61-0002 EA Replace 6' Diameter 4 Blade, Cooling Tower Fan Blade.....	3,548.79	
23 01 60 61-0003 EA Replace 6' Diameter 5 Blade, Cooling Tower Fan Blade.....	4,174.72	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 01 Operation and Maintenance of HVAC Systems****23 01 60 Operation and Maintenance of Central Cooling Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 01 60 61-0004 EA Replace 6' Diameter 6 Blade, Cooling Tower Fan Blade	4,796.07	
23 01 60 61-0005 EA Replace 6' Diameter 7 Blade, Cooling Tower Fan Blade	5,657.31	
23 01 60 61-0006 EA Replace 6' Diameter 8 Blade, Cooling Tower Fan Blade	6,230.69	
23 01 60 61-0007 EA Replace 8' Diameter 4 Blade, Cooling Tower Fan Blade	3,925.43	
23 01 60 61-0008 EA Replace 8' Diameter 5 Blade, Cooling Tower Fan Blade	4,364.02	
23 01 60 61-0009 EA Replace 8' Diameter 6 Blade, Cooling Tower Fan Blade	5,117.87	
23 01 60 61-0010 EA Replace 8' Diameter 7 Blade, Cooling Tower Fan Blade	5,826.04	
23 01 60 61-0011 EA Replace 8' Diameter 8 Blade, Cooling Tower Fan Blade	6,413.15	
23 01 60 61-0012 EA Replace Individual Cooling Tower Fan Blade For 6' Diameter Fan.....	972.85	
23 01 60 61-0013 EA Replace Individual Cooling Tower Fan Blade For 8' Diameter Fan.....	1,012.08	
23 01 60 61-0014 EA Replace Individual Cooling Tower Fan Blade For 10' Diameter Fan.....	1,083.31	
23 01 60 61-0015 EA Replace Individual Cooling Tower Fan Blade For 12' Diameter Fan.....	1,261.90	
23 01 60 61-0016 EA Replace Individual Cooling Tower Fan Blade For 14' Diameter Fan.....	1,561.55	
23 01 60 61-0017 EA Replace Individual Cooling Tower Fan Blade For 16' Diameter Fan.....	2,105.63	
23 01 60 61-0018 EA Replace Individual Cooling Tower Fan Blade For 18' Diameter Fan.....	2,215.68	
23 01 60 61-0019 EA Replace Individual Cooling Tower Fan Blade For 20' Diameter Fan.....	2,380.77	
23 01 60 61-0020 EA Replace Counterflow Nozzle (1/2" - 2" NPT Thread).....	49.13	
23 01 60 61-0021 EA Replace 6' Polyvinyl Chloride (PVC) Splash Fill	31.05	

23 01 60 71 Refrigerant Recovery/Recycling (23 01 60)**23 01 60 71-0001 Refrigerant Recovery, Reclaim And Recycling (23 01 60 71)**

23 01 60 71-0002 LB Recovery Of Refrigerant	16.19
23 01 60 71-0003 LB Recovery And Recharging Of Refrigerant.....	30.38
Note: Includes cleaning refrigerant gas prior to recharging.	
23 01 60 71-0004 LB Recharging Of Refrigerant.....	13.64
Note: Excludes refrigerant filling at time of installation of HVAC or Condenser units.	

23 05 Common Work Results for HVAC (23)**23 05 13 Common Motor Requirements for HVAC Equipment (23 05)**

Note: New equipment includes motor, unless otherwise stated. For use when replacing existing motor.

23 05 13 00-0001 Premium Efficient, Motors (23 05 13)

Note: New equipment includes motor, unless otherwise stated. For use when replacing existing motor. Excludes installation. See CSI section 23 05 13 00-0216 for installation.

23 05 13 00-0002 Premium Efficient, Open Drip Proof Motors (23 05 13 00-0001)

Note: NEMA premium efficiency, open drip proof, three phase AC motors.

23 05 13 00-0003 Steel Frame, Premium Efficient, Open Drip Proof Motors (23 05 13 00-0002)

23 05 13 00-0004 EA 1 HP, 3,600 RPM, 56 NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	696.02
23 05 13 00-0005 EA 1 HP, 1,800 RPM, 143T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	788.12
23 05 13 00-0006 EA 1 HP, 1,200 RPM, 145T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	924.00
23 05 13 00-0007 EA 1-1/2 HP, 3,600 RPM, 143T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	776.04
23 05 13 00-0008 EA 1-1/2 HP, 1,800 RPM, 145T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	824.35
23 05 13 00-0009 EA 1-1/2 HP, 1,200 RPM, 182T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	1,081.02
23 05 13 00-0010 EA 2 HP, 3,600 RPM, 145T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	911.92
23 05 13 00-0011 EA 2 HP, 1,800 RPM, 145T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	883.23
23 05 13 00-0012 EA 2 HP, 1,200 RPM, 184T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	1,105.17
23 05 13 00-0013 EA 3 HP, 3,600 RPM, 182T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	924.00
23 05 13 00-0014 EA 3 HP, 1,800 RPM, 182T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	952.68
23 05 13 00-0015 EA 3 HP, 1,200 RPM, 213T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	1,407.13
23 05 13 00-0016 EA 5 HP, 3,600 RPM, 184T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	1,008.55
23 05 13 00-0017 EA 5 HP, 1,800 RPM, 184T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	1,043.27
23 05 13 00-0018 EA 5 HP, 1,200 RPM, 215T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	1,843.47
23 05 13 00-0019 EA 7-1/2 HP, 3,600 RPM, 213T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	1,600.39
23 05 13 00-0020 EA 7-1/2 HP, 1,800 RPM, 213T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	1,533.96
23 05 13 00-0021 EA 7-1/2 HP, 1,200 RPM, 254T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	2,210.35
23 05 13 00-0022 EA 10 HP, 3,600 RPM, 215T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	1,829.88
23 05 13 00-0023 EA 10 HP, 1,800 RPM, 215T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	1,857.05
23 05 13 00-0024 EA 10 HP, 1,200 RPM, 256T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	2,876.17
23 05 13 00-0025 EA 15 HP, 3,600 RPM, 254T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	2,599.88
23 05 13 00-0026 EA 15 HP, 1,800 RPM, 254T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	2,630.07
23 05 13 00-0027 EA 15 HP, 1,200 RPM, 284T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	3,878.68
23 05 13 00-0028 EA 20 HP, 3,600 RPM, 256T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	3,054.33
23 05 13 00-0029 EA 20 HP, 1,800 RPM, 256T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	3,301.93
23 05 13 00-0030 EA 20 HP, 1,200 RPM, 286T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	4,721.14
23 05 13 00-0031 EA 25 HP, 3,600 RPM, 284TS NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	3,667.30
23 05 13 00-0032 EA 25 HP, 1,800 RPM, 284T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	4,025.13
23 05 13 00-0033 EA 25 HP, 1,200 RPM, 324T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	5,702.51
23 05 13 00-0034 EA 30 HP, 3,600 RPM, 286TS NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	4,327.09
23 05 13 00-0035 EA 30 HP, 1,800 RPM, 286T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	4,401.07
23 05 13 00-0036 EA 30 HP, 1,200 RPM, 326T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	5,948.61
23 05 13 00-0037 EA 40 HP, 3,600 RPM, 324TS NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	5,575.69
23 05 13 00-0038 EA 40 HP, 1,800 RPM, 324T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	5,741.77
23 05 13 00-0039 EA 50 HP, 3,600 RPM, 326TS NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	6,072.42
23 05 13 00-0040 EA 50 HP, 1,800 RPM, 326T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	6,336.63
23 05 13 00-0041 EA 60 HP, 3,600 RPM, 364TS NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	7,683.37
23 05 13 00-0042 EA 60 HP, 1,800 RPM, 364T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	7,977.78



Table with columns: MINOR CSI UOM DESCRIPTION, TOTAL DIRECT UNIT COST, DEMOLITION UNIT COST. Rows include motor specifications like '75 HP, 3,600 RPM, 365TS NEMA Steel Frame...' and 'Cast Iron Frame, Premium Efficient, Open Drip Proof Motors'.



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
-------	-----	-----	-------------	------------------------	----------------------

23 05 13 00-0116	EA		40 HP, 1,200 RPM, 364T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	10,699.95	
23 05 13 00-0117	EA		50 HP, 3,600 RPM, 326TS NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	8,175.57	
23 05 13 00-0118	EA		50 HP, 1,800 RPM, 326T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	7,884.18	
23 05 13 00-0119	EA		50 HP, 1,200 RPM, 365T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	12,929.93	
23 05 13 00-0120	EA		60 HP, 3,600 RPM, 364TS NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	11,485.05	
23 05 13 00-0121	EA		60 HP, 1,800 RPM, 364T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	11,344.64	
23 05 13 00-0122	EA		60 HP, 1,200 RPM, 404T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	15,694.37	
23 05 13 00-0123	EA		75 HP, 3,600 RPM, 365TS NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	13,361.73	
23 05 13 00-0124	EA		75 HP, 1,800 RPM, 365T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	13,265.10	
23 05 13 00-0125	EA		75 HP, 1,200 RPM, 405T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	18,276.13	
23 05 13 00-0126	EA		100 HP, 1,800 RPM, 405T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	16,473.43	
23 05 13 00-0127	EA		125 HP, 1,800 RPM, 444T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	20,394.38	
23 05 13 00-0128	EA		150 HP, 1,800 RPM, 445T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	23,459.27	
23 05 13 00-0129	EA		200 HP, 1,800 RPM, 447T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	29,483.37	

23 05 13 00-0130 Premium Efficient, Severe Duty Motors (23 05 13 00-0001)

Note: NEMA premium efficiency, TEFC enclosure severe duty, three phase AC motors.

23 05 13 00-0131	EA		1 HP, 3,600 RPM, 143T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	1,206.33	
23 05 13 00-0132	EA		1 HP, 1,800 RPM, 143T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	1,325.60	
23 05 13 00-0133	EA		1 HP, 1,200 RPM, 145T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	1,464.51	
23 05 13 00-0134	EA		1 HP, 900 RPM, L182T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	2,057.86	
23 05 13 00-0135	EA		1-1/2 HP, 3,600 RPM, 143T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	1,372.41	
23 05 13 00-0136	EA		1-1/2 HP, 1,800 RPM, 145T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	1,351.27	
23 05 13 00-0137	EA		1-1/2 HP, 1,200 RPM, 182T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	1,713.62	
23 05 13 00-0138	EA		1-1/2 HP, 900 RPM, L184T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	2,560.62	
23 05 13 00-0139	EA		2 HP, 3,600 RPM, 145T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	1,435.82	
23 05 13 00-0140	EA		2 HP, 1,800 RPM, 145T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	1,410.15	
23 05 13 00-0141	EA		2 HP, 1,200 RPM, L184T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	1,736.27	
23 05 13 00-0142	EA		2 HP, 900 RPM, L213T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	3,229.46	
23 05 13 00-0143	EA		3 HP, 3,600 RPM, 182T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	1,698.52	
23 05 13 00-0144	EA		3 HP, 1,800 RPM, 182T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	1,784.58	
23 05 13 00-0145	EA		3 HP, 1,200 RPM, 213T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	2,506.27	
23 05 13 00-0146	EA		3 HP, 900 RPM, L215T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	3,502.74	
23 05 13 00-0147	EA		5 HP, 3,600 RPM, 184T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	2,089.56	
23 05 13 00-0148	EA		5 HP, 1,800 RPM, L184T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	1,816.29	
23 05 13 00-0149	EA		5 HP, 1,200 RPM, L215T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	2,539.48	
23 05 13 00-0150	EA		5 HP, 900 RPM, 254T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	5,575.69	
23 05 13 00-0151	EA		7-1/2 HP, 3,600 RPM, 213T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	2,726.70	
23 05 13 00-0152	EA		7-1/2 HP, 1,800 RPM, L213T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	2,287.35	
23 05 13 00-0153	EA		7-1/2 HP, 1,200 RPM, 254T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	3,634.09	
23 05 13 00-0154	EA		7-1/2 HP, 900 RPM, 256T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	6,375.89	
23 05 13 00-0155	EA		10 HP, 3,600 RPM, 215T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	2,903.35	
23 05 13 00-0156	EA		10 HP, 1,800 RPM, L215T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	2,738.78	
23 05 13 00-0157	EA		10 HP, 1,200 RPM, 256T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	4,721.14	
23 05 13 00-0158	EA		10 HP, 900 RPM, 284T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	7,437.27	
23 05 13 00-0159	EA		15 HP, 3,600 RPM, 254T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	3,714.11	
23 05 13 00-0160	EA		15 HP, 1,800 RPM, 254T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	3,489.15	
23 05 13 00-0161	EA		15 HP, 1,200 RPM, 284T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	5,412.63	
23 05 13 00-0162	EA		15 HP, 900 RPM, 286T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	9,928.44	
23 05 13 00-0163	EA		20 HP, 3,600 RPM, 256T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	4,333.13	
23 05 13 00-0164	EA		20 HP, 1,800 RPM, 256T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	3,742.79	
23 05 13 00-0165	EA		20 HP, 1,200 RPM, 286T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	7,354.24	
23 05 13 00-0166	EA		20 HP, 900 RPM, 324T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	11,318.97	
23 05 13 00-0167	EA		25 HP, 3,600 RPM, 284TS NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	5,207.30	
23 05 13 00-0168	EA		25 HP, 1,800 RPM, 284T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	4,897.79	
23 05 13 00-0169	EA		25 HP, 1,200 RPM, 324T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	7,684.88	
23 05 13 00-0170	EA		30 HP, 3,600 RPM, 286TS NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	6,348.71	
23 05 13 00-0171	EA		30 HP, 1,800 RPM, 286T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	5,815.75	
23 05 13 00-0172	EA		30 HP, 1,200 RPM, 326T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	9,907.31	
23 05 13 00-0173	EA		40 HP, 3,600 RPM, 324TS NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	8,722.11	
23 05 13 00-0174	EA		40 HP, 1,800 RPM, 324T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	7,609.39	
23 05 13 00-0175	EA		40 HP, 1,200 RPM, 364T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	12,348.65	
23 05 13 00-0176	EA		50 HP, 3,600 RPM, 326TS NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	9,140.33	
23 05 13 00-0177	EA		50 HP, 1,800 RPM, 326T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	8,931.98	
23 05 13 00-0178	EA		50 HP, 1,200 RPM, 365T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	13,153.38	
23 05 13 00-0179	EA		60 HP, 3,600 RPM, 364TS NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	13,265.10	
23 05 13 00-0180	EA		60 HP, 1,800 RPM, 364T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	11,971.20	
23 05 13 00-0181	EA		60 HP, 1,200 RPM, 404T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	17,966.62	
23 05 13 00-0182	EA		75 HP, 3,600 RPM, 365TS NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	14,829.26	
23 05 13 00-0183	EA		75 HP, 1,800 RPM, 365T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	13,988.30	
23 05 13 00-0184	EA		75 HP, 1,200 RPM, 405T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	21,866.43	
23 05 13 00-0185	EA		100 HP, 3,600 RPM, 405TS NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	18,639.99	
23 05 13 00-0186	EA		100 HP, 1,800 RPM, 405T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	18,362.19	
23 05 13 00-0187	EA		100 HP, 1,200 RPM, 444T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	24,051.11	
23 05 13 00-0188	EA		125 HP, 3,600 RPM, 444TS NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	21,902.67	
23 05 13 00-0189	EA		125 HP, 1,800 RPM, 444T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	21,707.90	
23 05 13 00-0190	EA		125 HP, 1,200 RPM, 445T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	27,170.36	
23 05 13 00-0191	EA		150 HP, 3,600 RPM, 445TS NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	25,677.17	
23 05 13 00-0192	EA		150 HP, 1,800 RPM, 445T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	25,431.07	
23 05 13 00-0193	EA		150 HP, 1,200 RPM, 447T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	30,633.84	



Heating, Ventilating, and Air-Conditioning (HVAC)

23

Common Work Results for HVAC 23 05

23

Common Motor Requirements for HVAC Equipment 23 05 13

Table header with columns: MINOR, CSI, UOM, DESCRIPTION, TOTAL DIRECT UNIT COST, DEMOLITION UNIT COST

Table rows for minor items 23 05 13 00-0194 to 23 05 13 00-0196

23 05 13 00-0197 Premium Efficient, Explosion Proof Motors (23 05 13 00-0001)
Note: NEMA premium efficiency, explosion proof, three phase AC motors.

Table rows for premium efficient explosion proof motors from 23 05 13 00-0198 to 23 05 13 00-0215

23 05 13 00-0216 Motor Mounting (23 05 13)
Note: Includes handling and motor installation on mounting base. Excludes mounting base.

Table rows for motor mounting items from 23 05 13 00-0217 to 23 05 13 00-0236

23 05 16 Expansion Fittings and Loops for HVAC Piping (23 05)

23 05 16 00-0001 Stainless Steel Bellows Type Expansion Joints (23 05 16)
Note: Includes internal sleeves and external covers.

23 05 16 00-0002 Threaded, 150 LB, Stainless Steel Bellows Type Expansion Joints (23 05 16 00-0001)
Note: Carbon steel ends. Includes internal sleeves and external covers.

Table rows for threaded expansion joints from 23 05 16 00-0003 to 23 05 16 00-0008

23 05 16 00-0009 Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joints (23 05 16 00-0001)
Note: Carbon steel ends. Includes internal sleeves and external covers.

Table rows for flanged expansion joints from 23 05 16 00-0010 to 23 05 16 00-0013

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 16 Expansion Fittings and Loops for HVAC Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 16 00-0014 EA 3" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint <i>For 300 LB Rating, Add</i>	799.94 124.96	239.77
23 05 16 00-0015 EA 4" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint <i>For 300 LB Rating, Add</i>	1,042.88 134.79	401.96
23 05 16 00-0016 EA 5" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint <i>For 300 LB Rating, Add</i>	1,352.67 200.98	439.69
23 05 16 00-0017 EA 6" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint <i>For 300 LB Rating, Add</i>	1,301.36 172.12	488.55
23 05 16 00-0018 EA 8" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint <i>For 300 LB Rating, Add</i>	1,667.87 223.10	624.26
23 05 16 00-0019 EA 10" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint <i>For 300 LB Rating, Add</i>	2,104.32 288.59	759.97
23 05 16 00-0020 EA 12" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint <i>For 300 LB Rating, Add</i>	2,718.62 391.44	575.68
23 05 16 00-0021 EA 14" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint <i>For 300 LB Rating, Add</i>	3,408.96 512.97	1,085.67
23 05 16 00-0022 EA 16" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint <i>For 300 LB Rating, Add</i>	4,282.07 697.32	1,194.23

23 05 16 00-0023 Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joints (23 05 16 00-0001)

Note: Carbon steel ends. Includes internal sleeves and external covers.

23 05 16 00-0024 EA 1-1/4" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint <i>For 300 LB Rating, Add</i>	663.01 81.16	169.25
23 05 16 00-0025 EA 1-1/2" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint <i>For 300 LB Rating, Add</i>	687.17 86.46	170.66
23 05 16 00-0026 EA 2" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint <i>For 300 LB Rating, Add</i>	698.85 86.48	176.30
23 05 16 00-0027 EA 2-1/2" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint <i>For 300 LB Rating, Add</i>	756.46 92.88	192.23
23 05 16 00-0028 EA 3" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint <i>For 300 LB Rating, Add</i>	854.93 100.58	226.09
23 05 16 00-0029 EA 4" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint <i>For 300 LB Rating, Add</i>	1,332.55 108.27	450.20
23 05 16 00-0030 EA 5" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint <i>For 300 LB Rating, Add</i>	1,562.63 161.42	459.64
23 05 16 00-0031 EA 6" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint <i>For 300 LB Rating, Add</i>	1,570.07 138.25	508.90
23 05 16 00-0032 EA 8" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint <i>For 300 LB Rating, Add</i>	1,878.08 179.19	581.51
23 05 16 00-0033 EA 10" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint <i>For 300 LB Rating, Add</i>	2,349.27 231.79	712.47
23 05 16 00-0034 EA 12" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint <i>For 300 LB Rating, Add</i>	2,984.80 314.40	863.65
23 05 16 00-0035 EA 14" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint <i>For 300 LB Rating, Add</i>	3,471.05 427.97	879.39
23 05 16 00-0036 EA 16" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint <i>For 300 LB Rating, Add</i>	4,526.05 581.77	1,099.23

23 05 17 Sleeves and Sleeve Seals for HVAC Piping (23 05)**23 05 17 00-0001 Wall Seals And Sleeves (23 05 17)**

Note: Up to 12" walls. Excludes drilling hole.

23 05 17 00-0002 Ductile Iron Wall Sleeve (23 05 17 00-0001)

Note: Includes rubber gasket seal.

23 05 17 00-0003 EA 3" Ductile Iron Wall Sleeve With Rubber Gasket Seal	157.19	67.10
23 05 17 00-0004 EA 4" Ductile Iron Wall Sleeve With Rubber Gasket Seal	191.54	78.38
23 05 17 00-0005 EA 6" Ductile Iron Wall Sleeve With Rubber Gasket Seal	233.21	94.03
23 05 17 00-0006 EA 8" Ductile Iron Wall Sleeve With Rubber Gasket Seal	335.19	140.98
23 05 17 00-0007 EA 10" Ductile Iron Wall Sleeve With Rubber Gasket Seal	434.66	187.93
23 05 17 00-0008 EA 12" Ductile Iron Wall Sleeve With Rubber Gasket Seal	537.60	235.01

23 05 17 00-0009 Steel Pipe Sleeves (23 05 17 00-0001)

Note: Includes link seals 12" length.

23 05 17 00-0010 EA 2" Steel Pipe Sleeve With Link Seals	185.88	67.91
23 05 17 00-0011 EA 2-1/2" Steel Pipe Sleeve With Link Seals	228.71	73.62
23 05 17 00-0012 EA 3" Steel Pipe Sleeve With Link Seals	269.22	79.33
23 05 17 00-0013 EA 4" Steel Pipe Sleeve With Link Seals	334.33	95.17
23 05 17 00-0014 EA 6" Steel Pipe Sleeve With Link Seals	484.29	118.86
23 05 17 00-0015 EA 10" Steel Pipe Sleeve With Link Seals	1,123.06	142.68
23 05 17 00-0016 EA 13-1/4" Inside Diameter Steel Pipe Sleeve With Link Seals	1,360.60	178.36
23 05 17 00-0017 EA 17-1/4" Inside Diameter Steel Pipe Sleeve With Link Seals	1,859.71	219.45
23 05 17 00-0018 EA 23-1/4" Inside Diameter Steel Pipe Sleeve With Link Seals	2,631.29	285.37
23 05 17 00-0019 EA 29-1/4" Inside Diameter Steel Pipe Sleeve With Link Seals	2,578.74	356.71

23 05 19 Meters and Gages for HVAC Piping (23 05)**23 05 19 00-0001 Thermometers (23 05 19)**



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 19 00-0002				Dial Type, Bi-Metal, 4" To 9" Stem, Steel Case, Brass Stem, Thermometers <small>(23 05 19 00-0001)</small> Note: Various ranges.		
23 05 19 00-0003	EA			2" Diameter Dial, Bi-Metal, 4" To 9" Stem, Steel Case, Brass Stem, Thermometer	134.13	49.02
23 05 19 00-0004	EA			2-1/2" Diameter Dial, Bi-Metal, 4" To 9" Stem, Steel Case, Brass Stem, Thermometer	152.49	49.02
23 05 19 00-0005	EA			3-1/2" Diameter Dial, Bi-Metal, 4" To 9" Stem, Steel Case, Brass Stem, Thermometer	152.49	49.02
23 05 19 00-0006				Liquid Filled Industrial Union Connection Type Thermometers <small>(23 05 19 00-0001)</small> Note: Various ranges.		
23 05 19 00-0007	EA			7" Scale, Angle Stem, Liquid Filled Industrial Union Connection Type Thermometer	170.85	49.02
23 05 19 00-0008	EA			9" Scale, Angle Stem, Liquid Filled Industrial Union Connection Type Thermometer	170.85	49.02
23 05 19 00-0009	EA			12" Scale, Angle Stem, Liquid Filled Industrial Union Connection Type Thermometer	209.25	49.02
23 05 19 00-0010	EA			7" Scale, Straight Stem, Liquid Filled Industrial Union Connection Type Thermometer	175.86	49.02
23 05 19 00-0011	EA			9" Scale, Straight Stem, Liquid Filled Industrial Union Connection Type Thermometer	184.21	49.02
23 05 19 00-0012	EA			12" Scale, Straight Stem, Liquid Filled Industrial Union Connection Type Thermometer	214.26	49.02
23 05 19 00-0013				Liquid Filled Industrial Separable Socket Type Thermometers <small>(23 05 19 00-0001)</small> Note: Various ranges. Socket connection for thermowell.		
23 05 19 00-0014	EA			7" Scale, Angle Stem, Liquid Filled Industrial Separable Socket Type Thermometer	170.85	49.02
23 05 19 00-0015	EA			9" Scale, Angle Stem, Liquid Filled Industrial Separable Socket Type Thermometer	170.85	49.02
23 05 19 00-0016	EA			12" Scale, Angle Stem, Liquid Filled Industrial Separable Socket Type Thermometer	209.25	49.02
23 05 19 00-0017	EA			7" Scale, Straight Stem, Liquid Filled Industrial Separable Socket Type Thermometer	192.56	49.02
23 05 19 00-0018	EA			9" Scale, Straight Stem, Liquid Filled Industrial Separable Socket Type Thermometer	209.25	49.02
23 05 19 00-0019	EA			12" Scale, Straight Stem, Liquid Filled Industrial Separable Socket Type Thermometer	213.51	49.02
23 05 19 00-0020				1" NPT, 304 Stainless Steel Thermowells <small>(23 05 19 00-0001)</small>		
23 05 19 00-0021	EA			4" Long, 1" NPT, 304 Stainless Steel Thermowell	227.30	91.90
23 05 19 00-0022	EA			8" Long, 1" NPT, 304 Stainless Steel Thermowell	227.21	91.90
23 05 19 00-0023				Pressure Gauges <small>(23 05 19)</small>		
23 05 19 00-0024				Steel Case, 0 To 60 PSI Or 0 To 100 PSI, Pressure Gauges <small>(23 05 19 00-0023)</small>		
23 05 19 00-0025	EA			2" Diameter Dial, Steel Case, 0 To 60 PSI Or 0 To 100 PSI, Pressure Gauge	48.97	19.14
23 05 19 00-0026	EA			4" Diameter Dial, Steel Case, 0 To 60 PSI Or 0 To 100 PSI, Pressure Gauge	58.82	19.14
23 05 19 00-0027				Aluminum Case, 0 To 60 PSI Or 0 To 100 PSI, Pressure Gauges <small>(23 05 19 00-0023)</small>		
23 05 19 00-0028	EA			3-1/2" Diameter Dial, Aluminum Case, 0 To 60 PSI Or 0 To 100 PSI, Pressure Gauge	313.76	19.14
23 05 19 00-0029	EA			4-1/2" Diameter Dial, Aluminum Case, 0 To 60 PSI Or 0 To 100 PSI, Pressure Gauge	313.76	19.14
23 05 19 00-0030	EA			6" Diameter Dial, Aluminum Case, 0 To 60 PSI Or 0 To 100 PSI, Pressure Gauge	407.32	19.14
23 05 19 00-0031	EA			8-1/2" Diameter Dial, Aluminum Case, 0 To 60 PSI Or 0 To 100 PSI, Pressure Gauge	958.26	19.14
23 05 19 00-0032				Brass Case, 0 To 60 PSI Or 0 To 100 PSI, Pressure Gauges <small>(23 05 19 00-0023)</small> Note: Liquid filled.		
23 05 19 00-0033	EA			2-1/2" Diameter Dial, Brass Case, 0 To 60 PSI Or 0 To 100 PSI, Pressure Gauge	154.94	19.14
23 05 19 00-0034	EA			4" Diameter Dial, Brass Case, 0 To 60 PSI Or 0 To 100 PSI, Pressure Gauge	341.47	19.14
23 05 19 00-0035				Steel Case, 0 To 10K PSI High Pressure, Pressure Gauges <small>(23 05 19 00-0023)</small>		
23 05 19 00-0036	EA			4-1/2" Diameter Dial, Steel Case, 0 To 10K PSI High Pressure, Pressure Gauge	337.12	19.14
23 05 19 00-0037	EA			6-1/2" Diameter Dial, Steel Case, 0 To 10K PSI High Pressure, Pressure Gauge	337.12	19.14
23 05 19 00-0038	EA			8-1/2" Diameter Dial, Steel Case, 0 To 10K PSI High Pressure, Pressure Gauge	337.12	19.14
23 05 19 00-0039				Gauge Accessories <small>(23 05 19 00-0023)</small>		
23 05 19 00-0040	EA			Pete's Plug (Valve Cock For Removable Pressure Gauge Or Thermometer)	102.67	15.31
23 05 19 00-0041	EA			1/4" Snubber Valve	67.19	15.31
23 05 19 00-0042	EA			1/4" Female Pipe Thread, Brass Gauge Cock	42.96	22.98
23 05 19 00-0043	EA			1/4" Male Pipe Thread, Brass Gauge Cock	38.02	22.98
23 05 19 00-0044	EA			1/4" Pressure Pigtail Steam Siphon	55.01	22.98
23 05 19 00-0045	EA			1/4" x 3" Long Black Steel Nipple	10.62	7.66
23 05 19 00-0046	EA			1/4" Steel Thread-O-Let	84.83	38.29
23 05 19 00-0047	EA			1/4", 300 LB, Black Steel Union	121.00	15.31
23 05 19 00-0048	EA			1/4" Black Steel Coupling	33.98	15.31
23 05 19 00-0049	EA			1/4", 300 LB, Black Steel Plug	19.15	9.19
23 05 19 00-0050	EA			1/4", 150 LB, Black Steel Cap	20.26	9.19
23 05 19 00-0051	LF			1/4" Schedule 40, Threaded And Coupled, Black Steel Pipe	12.77	5.06
23 05 19 00-0052	LF			1/4" Schedule 80, Plain End, Black Steel Pipe	12.78	5.06
23 05 19 00-0053	LF			1/4" Schedule 40, Threaded And Coupled, Galvanized Steel Pipe	11.30	
23 05 19 00-0054	EA			1/4" Threaded, 800 LB, Forged Steel, Ball Valve	124.48	
23 05 19 00-0055				Valve Lock Covers <small>(23 05 19)</small>		
23 05 19 00-0056	EA			Valve Lock Cover	96.83	23.44

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 19 Meters and Gages for HVAC Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 19 00-0057 Venturi Flowmeters (23 05 19)		
23 05 19 00-0058 Threaded, Brass, Venturi Flowmeters (23 05 19 00-0057)		
23 05 19 00-0059 EA 3/4" Threaded, Brass, Venturi Flowmeter <i>For Portable Venturi Flow Meter, Add</i>	335.41 995.00	104.16
23 05 19 00-0060 EA 1" Threaded, Brass, Venturi Flowmeter <i>For Portable Venturi Flow Meter, Add</i>	373.35 995.00	125.00
23 05 19 00-0061 EA 1-1/4" Threaded, Brass, Venturi Flowmeter <i>For Portable Venturi Flow Meter, Add</i>	412.06 995.00	138.93
23 05 19 00-0062 EA 1-1/2" Threaded, Brass, Venturi Flowmeter <i>For Portable Venturi Flow Meter, Add</i>	464.35 995.00	156.24
23 05 19 00-0063 EA 2" Threaded, Brass, Venturi Flowmeter <i>For Portable Venturi Flow Meter, Add</i>	550.63 995.00	178.61
23 05 19 00-0064 EA 2-1/2" Threaded, Brass, Venturi Flowmeter <i>For Portable Venturi Flow Meter, Add</i>	725.49 995.00	221.17
23 05 19 00-0065 Butt Weld, Carbon Steel, Venturi Flowmeters (23 05 19 00-0057)		
23 05 19 00-0066 EA 3" Butt Weld, Carbon Steel, Venturi Flowmeter <i>For Portable Venturi Flow Meter, Add</i> <i>For Flanged Ends, Add</i>	2,574.48 995.00 751.25	214.03
23 05 19 00-0067 EA 4" Butt Weld, Carbon Steel, Venturi Flowmeter <i>For Portable Venturi Flow Meter, Add</i> <i>For Flanged Ends, Add</i>	3,590.21 995.00 1,076.79	256.83
23 05 19 00-0068 EA 5" Butt Weld, Carbon Steel, Venturi Flowmeter <i>For Portable Venturi Flow Meter, Add</i> <i>For Flanged Ends, Add</i>	4,720.29 995.00 1,427.37	321.04
23 05 19 00-0069 EA 6" Butt Weld, Carbon Steel, Venturi Flowmeter <i>For Portable Venturi Flow Meter, Add</i> <i>For Flanged Ends, Add</i>	5,578.24 995.00 1,652.75	428.05
23 05 19 00-0070 EA 8" Butt Weld, Carbon Steel, Venturi Flowmeter <i>For Portable Venturi Flow Meter, Add</i> <i>For Flanged Ends, Add</i>	8,253.62 995.00 2,529.21	513.66
23 05 19 00-0071 EA 10" Butt Weld, Carbon Steel, Venturi Flowmeter <i>For Portable Venturi Flow Meter, Add</i> <i>For Flanged Ends, Add</i>	13,661.88 995.00 4,332.21	642.08
23 05 19 00-0072 EA 12" Butt Weld, Carbon Steel, Venturi Flowmeter <i>For Portable Venturi Flow Meter, Add</i> <i>For Flanged Ends, Add</i>	20,384.76 995.00 6,560.91	819.65
23 05 19 00-0073 EA 14" Butt Weld, Carbon Steel, Venturi Flowmeter <i>For Portable Venturi Flow Meter, Add</i> <i>For Flanged Ends, Add</i>	28,502.28 995.00 9,115.16	1,229.47
23 05 19 00-0074 EA 16" Butt Weld, Carbon Steel, Venturi Flowmeter <i>For Portable Venturi Flow Meter, Add</i> <i>For Flanged Ends, Add</i>	43,156.55 995.00 14,148.53	1,366.08
23 05 19 00-0075 Turbine Flowmeter (23 05 19)		
23 05 19 00-0076 EA Saddle Mount Turbine Flowmeter.....	1,852.27	114.88
23 05 19 00-0077 Sight Flow Indicator (23 05 19)		
23 05 19 00-0078 Threaded, Single Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (23 05 19 00-0077)		
23 05 19 00-0079 EA 1/4" Threaded, Single Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-100).....	182.15	22.30
23 05 19 00-0080 EA 3/8" Threaded, Single Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-100).....	190.32	23.47
23 05 19 00-0081 EA 1/2" Threaded, Single Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-100).....	205.61	24.66
23 05 19 00-0082 EA 3/4" Threaded, Single Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-100).....	232.11	33.23
23 05 19 00-0083 EA 1" Threaded, Single Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-100).....	277.61	40.27
23 05 19 00-0084 EA 1-1/4" Threaded, Single Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-100).....	316.59	50.99
23 05 19 00-0085 EA 1-1/2" Threaded, Single Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-100).....	444.20	58.96
23 05 19 00-0086 EA 2" Threaded, Single Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-100).....	493.60	69.67
23 05 19 00-0087 Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (23 05 19 00-0077)		
23 05 19 00-0088 EA 1/4" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-300).....	234.61	22.30
23 05 19 00-0089 EA 3/8" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-300).....	241.61	23.47
23 05 19 00-0090 EA 1/2" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-300).....	260.40	24.66
23 05 19 00-0091 EA 3/4" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-300).....	278.74	33.23



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 19 00-0092 EA 1" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-300)	297.43	40.27
23 05 19 00-0093 EA 1-1/4" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-300)	324.75	50.99
23 05 19 00-0094 EA 1-1/2" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-300)	602.74	58.96
23 05 19 00-0095 EA 2" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-300)	647.48	69.67
23 05 19 00-0096 Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Stainless Steel Body, Sight Flow Indicator (23 05 19 00-0077)		
23 05 19 00-0097 EA 1/4" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-300SS)	336.03	22.30
23 05 19 00-0098 EA 3/8" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-300SS)	354.69	23.47
23 05 19 00-0099 EA 1/2" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-300SS)	385.14	24.66
23 05 19 00-0100 EA 3/4" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-300SS)	420.96	33.23
23 05 19 00-0101 EA 1" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-300SS)	483.95	40.27
23 05 19 00-0102 EA 1-1/4" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-300SS)	514.77	50.99
23 05 19 00-0103 EA 1-1/2" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-300SS)	1,022.41	58.96
23 05 19 00-0104 EA 2" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-300SS)	1,078.80	69.67
23 05 19 00-0105 Threaded, Double Window, 304SS Flapper, Bronze Body, Sight Flow Indicators (23 05 19 00-0077)		
23 05 19 00-0106 EA 1/4" Threaded, Double Window, 304SS Flapper, Bronze Body, Sight Flow Indicator (Dwyer SFI-360)	231.11	22.30
23 05 19 00-0107 EA 3/8" Threaded, Double Window, 304SS Flapper, Bronze Body, Sight Flow Indicator (Dwyer SFI-360)	240.44	23.47
23 05 19 00-0108 EA 1/2" Threaded, Double Window, 304SS Flapper, Bronze Body, Sight Flow Indicator (Dwyer SFI-360)	254.57	24.66
23 05 19 00-0109 EA 3/4" Threaded, Double Window, 304SS Flapper, Bronze Body, Sight Flow Indicator (Dwyer SFI-360)	277.57	33.23
23 05 19 00-0110 EA 1" Threaded, Double Window, 304SS Flapper, Bronze Body, Sight Flow Indicator (Dwyer SFI-360)	296.26	40.27
23 05 19 00-0111 EA 1-1/4" Threaded, Double Window, 304SS Flapper, Bronze Body, Sight Flow Indicator (Dwyer SFI-360)	324.75	50.99
23 05 19 00-0112 EA 1-1/2" Threaded, Double Window, 304SS Flapper, Bronze Body, Sight Flow Indicator (Dwyer SFI-360)	595.75	58.96
23 05 19 00-0113 EA 2" Threaded, Double Window, 304SS Flapper, Bronze Body, Sight Flow Indicator (Dwyer SFI-360)	638.15	69.67
23 05 19 00-0114 Threaded, Double Window, 304SS Flapper, Stainless Steel Body, Sight Flow Indicators (23 05 19 00-0077)		
23 05 19 00-0115 EA 1/4" Threaded, Double Window, 304SS Flapper, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-360SS)	333.70	22.30
23 05 19 00-0116 EA 3/8" Threaded, Double Window, 304SS Flapper, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-360SS)	359.35	23.47
23 05 19 00-0117 EA 1/2" Threaded, Double Window, 304SS Flapper, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-360SS)	392.13	24.66
23 05 19 00-0118 EA 3/4" Threaded, Double Window, 304SS Flapper, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-360SS)	420.96	33.23
23 05 19 00-0119 EA 1" Threaded, Double Window, 304SS Flapper, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-360SS)	483.95	40.27
23 05 19 00-0120 EA 1-1/4" Threaded, Double Window, 304SS Flapper, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-360SS)	519.43	50.99
23 05 19 00-0121 EA 1-1/2" Threaded, Double Window, 304SS Flapper, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-360SS)	1,022.41	58.96
23 05 19 00-0122 EA 2" Threaded, Double Window, 304SS Flapper, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-360SS)	1,078.80	69.67
23 05 19 00-0123 Threaded, Tube Style, Without Impeller, Cast Iron Body, Sight Flow Indicators (23 05 19 00-0077)		
23 05 19 00-0124 EA 1" Threaded, Tube Style, Without Impeller, Cast Iron Body, Sight Flow Indicator (Dwyer SFI-400)	493.28	40.27
23 05 19 00-0125 EA 1-1/4" Threaded, Tube Style, Without Impeller, Cast Iron Body, Sight Flow Indicator (Dwyer SFI-400)	556.73	50.99
23 05 19 00-0126 EA 1-1/2" Threaded, Tube Style, Without Impeller, Cast Iron Body, Sight Flow Indicator (Dwyer SFI-400)	633.05	58.96
23 05 19 00-0127 EA 2" Threaded, Tube Style, Without Impeller, Cast Iron Body, Sight Flow Indicator (Dwyer SFI-400)	712.76	69.67
23 05 19 00-0128 Flanged, Double Window, 316SS Flapper, Carbon Steel Body, Sight Flow Indicators (23 05 19 00-0077)		
23 05 19 00-0129 EA 1-1/2" Flanged, Double Window, 316SS Flapper, Carbon Steel Body, Sight Flow Indicator (Dwyer SFI-360FCS)	1,090.36	160.79
23 05 19 00-0130 EA 2" Flanged, Double Window, 316SS Flapper, Carbon Steel Body, Sight Flow Indicator (Dwyer SFI-360FCS)	1,223.38	204.13
23 05 19 00-0131 EA 3" Flanged, Double Window, 316SS Flapper, Carbon Steel Body, Sight Flow Indicator (Dwyer SFI-360FCS)	1,788.04	239.67
23 05 19 00-0132 EA 4" Flanged, Double Window, 316SS Flapper, Carbon Steel Body, Sight Flow Indicator (Dwyer SFI-360FCS)	2,707.35	401.80
23 05 19 00-0133 EA 6" Flanged, Double Window, 316SS Flapper, Carbon Steel Body, Sight Flow Indicator (Dwyer SFI-360FCS)	4,299.78	449.69
23 05 19 00-0134 Flanged, Tube Style, Without Impeller, Stainless Steel Body, Sight Flow Indicators (23 05 19 00-0077)		
23 05 19 00-0135 EA 1" Flanged, Tube Style, Without Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-400F)	834.59	114.85
23 05 19 00-0136 EA 1-1/4" Flanged, Tube Style, Without Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-400F)	984.80	133.99
23 05 19 00-0137 EA 1-1/2" Flanged, Tube Style, Without Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-400F)	1,066.47	160.79
23 05 19 00-0138 EA 2" Flanged, Tube Style, Without Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-400F)	1,337.04	204.13
23 05 19 00-0139 EA 3" Flanged, Tube Style, Without Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-400F)	1,927.35	239.67
23 05 19 00-0140 EA 4" Flanged, Tube Style, Without Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-400F)	2,858.32	401.80

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 05 Common Work Results for HVAC

23 05 19 Meters and Gages for HVAC Piping



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
------------------------------	---------------------------	-------------------------

23 05 19 00-0141 Water Flow Switches (23 05 19)

23 05 19 00-0142	EA Flexible Paddle, Single Switch, Brass Body, Water Flow Switch (Taco IFS01BF-1)	318.98	45.13
23 05 19 00-0143	EA Rigid Paddle, Single Switch, Brass Body, Water Flow Switch (Taco IFS01BR-1)	329.64	45.13
23 05 19 00-0144	EA Flexible Paddle, Double Switch, Brass Body, Water Flow Switch (Taco IFS02BF-1)	419.69	45.13
23 05 19 00-0145	EA Rigid Paddle, Double Switch, Brass Body, Water Flow Switch (Taco IFS02BR-1)	433.32	45.13
23 05 19 00-0146	EA Flexible Paddle, High Current Single Switch, Brass Body, Water Flow Switch (Taco IFSH1BF-1)	343.28	45.13
23 05 19 00-0147	EA Rigid Paddle, High Current Single Switch, Brass Body, Water Flow Switch (Taco IFSH1BR-1)	355.71	45.13
23 05 19 00-0148	EA Flexible Paddle, High Current Double Switch, Brass Body, Water Flow Switch (Taco IFSH2BF-1)	443.99	45.13
23 05 19 00-0149	EA Rigid Paddle, High Current Double Switch, Brass Body, Water Flow Switch (Taco IFSH2BR-1)	456.42	45.13
23 05 19 00-0150	EA Flexible Paddle, Single Switch, 316 Stainless Steel Body, Water Flow Switch (Taco IFS01SF-1)	856.83	45.13
23 05 19 00-0151	EA Rigid Paddle, Single Switch, 316 Stainless Steel Body, Water Flow Switch (Taco IFS01SR-1)	868.88	45.13
23 05 19 00-0152	EA Flexible Paddle, Double Switch, 316 Stainless Steel Body, Water Flow Switch (Taco IFS02SF-1)	983.34	45.13
23 05 19 00-0153	EA Rigid Paddle, Double Switch, 316 Stainless Steel Body, Water Flow Switch (Taco IFS02SR-1)	999.91	45.13
23 05 19 00-0154	EA Flexible Paddle, High Current Single Switch, 316 Stainless Steel Body, Water Flow Switch (Taco IFSH1SF-1)	885.45	45.13
23 05 19 00-0155	EA Rigid Paddle, High Current Single Switch, 316 Stainless Steel Body, Water Flow Switch (Taco IFSH1SR-1)	902.01	45.13
23 05 19 00-0156	EA Flexible Paddle, High Current Double Switch, 316 Stainless Steel Body, Water Flow Switch (Taco IFSH2SF-1)	1,011.96	45.13
23 05 19 00-0157	EA Rigid Paddle, High Current Double Switch, 316 Stainless Steel Body, Water Flow Switch (Taco IFSH2SR-1)	1,030.03	45.13

23 05 23 General-Duty Valves For HVAC Piping (23 05)

Note: Flanged valves exclude bolt and gasket sets. See CSI section 22 05 23 00-0000 for additional valves, 23 21 13 23-0713 for bolt and gasket sets.

23 05 23 00-0001 Gate Valves (23 05 23)

23 05 23 00-0002 Class 125 Threaded, Bronze Gate Valves (23 05 23 00-0001)

Note: 125 psi steam, basic rating. 200 psi cold working pressure.

23 05 23 00-0003	EA 1/4" Diameter, 125 LB, Threaded Bronze Gate Valve	76.57	15.31
	<i>For Work In Restricted Working Space, Add</i>	13.38	
	<i>For 150 LB Rating, Add</i>	3.20	
	<i>For 200 LB Rating, Add</i>	4.80	
	<i>For 250 LB Rating, Add</i>	8.00	
	<i>For 300 LB Rating, Add</i>	11.19	
23 05 23 00-0004	EA 3/8" Diameter, 125 LB, Threaded Bronze Gate Valve	78.91	15.31
	<i>For Work In Restricted Working Space, Add</i>	14.08	
	<i>For 150 LB Rating, Add</i>	3.20	
	<i>For 200 LB Rating, Add</i>	4.80	
	<i>For 250 LB Rating, Add</i>	8.00	
	<i>For 300 LB Rating, Add</i>	11.19	
23 05 23 00-0005	EA 1/2" Diameter, 125 LB, Threaded Bronze Gate Valve	81.38	15.31
	<i>For Work In Restricted Working Space, Add</i>	14.82	
	<i>For 150 LB Rating, Add</i>	3.20	
	<i>For 200 LB Rating, Add</i>	4.80	
	<i>For 250 LB Rating, Add</i>	8.00	
	<i>For 300 LB Rating, Add</i>	11.19	
23 05 23 00-0006	EA 3/4" Diameter, 125 LB, Threaded Bronze Gate Valve	104.73	16.85
	<i>For Work In Restricted Working Space, Add</i>	19.97	
	<i>For 150 LB Rating, Add</i>	3.82	
	<i>For 200 LB Rating, Add</i>	5.72	
	<i>For 250 LB Rating, Add</i>	9.54	
	<i>For 300 LB Rating, Add</i>	13.36	
23 05 23 00-0007	EA 1" Diameter, 125 LB, Threaded Bronze Gate Valve	138.25	19.14
	<i>For Work In Restricted Working Space, Add</i>	24.18	
	<i>For 150 LB Rating, Add</i>	5.77	
	<i>For 200 LB Rating, Add</i>	8.65	
	<i>For 250 LB Rating, Add</i>	14.41	
	<i>For 300 LB Rating, Add</i>	20.18	
23 05 23 00-0008	EA 1-1/4" Diameter, 125 LB, Threaded Bronze Gate Valve	179.82	20.37
	<i>For Work In Restricted Working Space, Add</i>	30.63	
	<i>For 150 LB Rating, Add</i>	7.77	
	<i>For 200 LB Rating, Add</i>	11.66	
	<i>For 250 LB Rating, Add</i>	19.43	
	<i>For 300 LB Rating, Add</i>	27.21	
23 05 23 00-0009	EA 1-1/2" Diameter, 125 LB, Threaded Bronze Gate Valve	215.74	23.58
	<i>For Work In Restricted Working Space, Add</i>	35.34	
	<i>For 150 LB Rating, Add</i>	9.80	
	<i>For 200 LB Rating, Add</i>	14.69	
	<i>For 250 LB Rating, Add</i>	24.49	
	<i>For 300 LB Rating, Add</i>	34.28	
23 05 23 00-0010	EA 2" Diameter, 125 LB, Threaded Bronze Gate Valve	273.04	27.87
	<i>For Work In Restricted Working Space, Add</i>	41.76	
	<i>For 150 LB Rating, Add</i>	13.38	
	<i>For 200 LB Rating, Add</i>	20.07	
	<i>For 250 LB Rating, Add</i>	33.46	
	<i>For 300 LB Rating, Add</i>	46.84	
23 05 23 00-0011	EA 2-1/2" Diameter, 125 LB, Threaded Bronze Gate Valve	569.65	37.64
	<i>For Work In Restricted Working Space, Add</i>	56.39	
	<i>For Chain Operated Type, Add</i>	171.76	
	<i>For 150 LB Rating, Add</i>	38.17	
	<i>For 200 LB Rating, Add</i>	57.25	
	<i>For 250 LB Rating, Add</i>	95.42	
	<i>For 300 LB Rating, Add</i>	133.59	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0012 EA 3" Diameter, 125 LB, Threaded Bronze Gate Valve 673.14		43.70
<i>For Work In Restricted Working Space, Add</i>	65.07	
<i>For Chain Operated Type, Add</i>	205.31	
<i>For 150 LB Rating, Add</i>	45.63	
<i>For 200 LB Rating, Add</i>	68.44	
<i>For 250 LB Rating, Add</i>	114.06	
<i>For 300 LB Rating, Add</i>	159.69	
23 05 23 00-0013 EA 4" Diameter, 125 LB, Threaded Bronze Gate Valve 1,333.62		49.34
<i>For Work In Restricted Working Space, Add</i>	74.01	
<i>For Chain Operated Type, Add</i>	489.11	
<i>For 150 LB Rating, Add</i>	108.69	
<i>For 200 LB Rating, Add</i>	163.04	
<i>For 250 LB Rating, Add</i>	271.73	
<i>For 300 LB Rating, Add</i>	380.42	
23 05 23 00-0014 Class 125 Non-Rising Stem, Threaded, Cast Iron Body, Bronze Trim Gate Valves <small>(23 05 23 00-0001)</small>		
<small>Note: 125 psi steam, basic rating. 200 psi cold working pressure.</small>		
23 05 23 00-0015 EA 1-1/2" Diameter, Class 125 Non-Rising Stem, Threaded, Cast Iron Body, Bronze Trim Gate Valve 306.70		23.58
<i>For Work In Restricted Working Space, Add</i>	35.34	
<i>For 150 LB Rating, Add</i>	37.78	
<i>For 250 LB Rating, Add</i>	66.12	
<i>For Chain Operated Type, Add</i>	66.12	
23 05 23 00-0016 EA 2" Diameter, Class 125 Non-Rising Stem, Threaded, Cast Iron Body, Bronze Trim Gate Valve 458.43		27.87
<i>For Work In Restricted Working Space, Add</i>	41.76	
<i>For 150 LB Rating, Add</i>	63.84	
<i>For 250 LB Rating, Add</i>	111.73	
<i>For Chain Operated Type, Add</i>	111.73	
23 05 23 00-0017 EA 2-1/2" Diameter, Class 125 Non-Rising Stem, Threaded, Cast Iron Body, Bronze Trim Gate Valve 668.07		37.64
<i>For Work In Restricted Working Space, Add</i>	56.39	
<i>For 150 LB Rating, Add</i>	96.02	
<i>For 250 LB Rating, Add</i>	168.04	
<i>For Chain Operated Type, Add</i>	168.04	
23 05 23 00-0018 EA 3" Diameter, Class 125 Non-Rising Stem, Threaded, Cast Iron Body, Bronze Trim Gate Valve 846.81		43.70
<i>For Work In Restricted Working Space, Add</i>	65.07	
<i>For 150 LB Rating, Add</i>	125.98	
<i>For 250 LB Rating, Add</i>	220.47	
<i>For Chain Operated Type, Add</i>	220.47	
23 05 23 00-0019 EA 4" Diameter, Class 125 Non-Rising Stem, Threaded, Cast Iron Body, Bronze Trim Gate Valve 1,942.39		49.34
<i>For Work In Restricted Working Space, Add</i>	74.01	
<i>For 150 LB Rating, Add</i>	339.14	
<i>For 250 LB Rating, Add</i>	593.49	
<i>For Chain Operated Type, Add</i>	593.49	
23 05 23 00-0020 Class 125 Non-Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valves <small>(23 05 23 00-0001)</small>		
<small>Note: 125 psi steam, basic rating. 200 psi cold working pressure.</small>		
23 05 23 00-0021 EA 1-1/2" Diameter, Class 125 Non-Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve 517.69		160.79
<i>For Work In Restricted Working Space, Add</i>	60.44	
<i>For 150 LB Rating, Add</i>	91.70	
<i>For 250 LB Rating, Add</i>	158.11	
<i>For 300 LB Rating, ASTM A182, Add</i>	416.95	
<i>For Chain Operated Type, Add</i>	158.11	
23 05 23 00-0022 EA 2" Diameter, Class 125 Non-Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve 585.92		204.13
<i>For Work In Restricted Working Space, Add</i>	76.57	
<i>For 150 LB Rating, Add</i>	95.90	
<i>For 250 LB Rating, Add</i>	165.35	
<i>For 300 LB Rating, ASTM A182, Add</i>	458.31	
<i>For Chain Operated Type, Add</i>	165.35	
23 05 23 00-0023 EA 2-1/2" Diameter, Class 125 Non-Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve 653.11		204.42
<i>For Work In Restricted Working Space, Add</i>	76.90	
<i>For 150 LB Rating, Add</i>	115.07	
<i>For 250 LB Rating, Add</i>	198.39	
<i>For 300 LB Rating, ASTM A182, Add</i>	524.95	
<i>For Chain Operated Type, Add</i>	198.39	
23 05 23 00-0024 EA 3" Diameter, Class 125 Non-Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve 795.91		239.67
<i>For Work In Restricted Working Space, Add</i>	89.99	
<i>For 150 LB Rating, Add</i>	143.83	
<i>For 250 LB Rating, Add</i>	247.98	
<i>For 300 LB Rating, ASTM A182, Add</i>	645.93	
<i>For Chain Operated Type, Add</i>	247.98	
23 05 23 00-0025 EA 4" Diameter, Class 125 Non-Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve 1,164.80		401.80
<i>For Work In Restricted Working Space, Add</i>	151.05	
<i>For 150 LB Rating, Add</i>	191.78	
<i>For 250 LB Rating, Add</i>	330.65	
<i>For 300 LB Rating, ASTM A182, Add</i>	913.05	
<i>For Chain Operated Type, Add</i>	330.65	
23 05 23 00-0026 EA 5" Diameter, Class 125 Non-Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve 1,364.73		404.73
<i>For Work In Restricted Working Space, Add</i>	151.54	
<i>For 150 LB Rating, Add</i>	249.29	
<i>For 250 LB Rating, Add</i>	429.81	
<i>For 300 LB Rating, ASTM A182, Add</i>	1,112.17	
<i>For Chain Operated Type, Add</i>	429.81	

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 05 Common Work Results for HVAC

23 05 23 General-Duty Valves For HVAC Piping



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0027 EA 6" Diameter, Class 125 Non-Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve <i>For Work In Restricted Working Space, Add</i> <i>For 150 LB Rating, Add</i> <i>For 250 LB Rating, Add</i> <i>For 300 LB Rating, ASTM A182, Add</i> <i>For Chain Operated Type, Add</i>	1,622.00 169.24 306.78 528.94 1,339.94 528.94	449.69
23 05 23 00-0028 EA 8" Diameter, Class 125 Non-Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve <i>For Work In Restricted Working Space, Add</i> <i>For 150 LB Rating, Add</i> <i>For 250 LB Rating, Add</i> <i>For 300 LB Rating, ASTM A182, Add</i> <i>For Chain Operated Type, Add</i>	2,466.17 214.14 508.19 876.19 2,109.27 876.19	574.61
23 05 23 00-0029 EA 10" Diameter, Class 125 Non-Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve..... <i>For Work In Restricted Working Space, Add</i> <i>For 150 LB Rating, Add</i> <i>For 250 LB Rating, Add</i> <i>For 300 LB Rating, ASTM A182, Add</i> <i>For Chain Operated Type, Add</i>	3,188.69 262.32 671.14 1,157.15 2,751.49 1,157.15	699.52
23 05 23 00-0030 EA 12" Diameter, Class 125 Non-Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve..... <i>For Work In Restricted Working Space, Add</i> <i>For 150 LB Rating, Add</i> <i>For 250 LB Rating, Add</i> <i>For 300 LB Rating, ASTM A182, Add</i> <i>For Chain Operated Type, Add</i>	4,366.17 317.96 958.82 1,653.15 3,836.23 1,653.15	849.42
23 05 23 00-0031 Class 125 Outside Stem And Yoke, Threaded, Cast Iron Body, Bronze Trim Gate Valves <small>(23 05 23 00-0001)</small> Note: 125 psi steam, basic rating. 200 psi cold working pressure.		
23 05 23 00-0032 EA 1-1/2" Diameter, 125 LB Outside Stem And Yoke, Threaded, Cast Iron Body, Bronze Trim Gate Valve <i>For Work In Restricted Working Space, Add</i> <i>For 175 LB Rating, Add</i> <i>For 250 LB Rating, Add</i>	580.87 35.34 231.54 347.31	23.58
23 05 23 00-0033 EA 2" Diameter, 125 LB Outside Stem And Yoke, Threaded, Cast Iron Body, Bronze Trim Gate Valve..... <i>For Work In Restricted Working Space, Add</i> <i>For 175 LB Rating, Add</i> <i>For 250 LB Rating, Add</i>	737.85 41.76 299.32 448.98	27.87
23 05 23 00-0034 EA 2-1/2" Diameter, 125 LB Outside Stem And Yoke, Threaded, Cast Iron Body, Bronze Trim Gate Valve <i>For Work In Restricted Working Space, Add</i> <i>For 175 LB Rating, Add</i> <i>For 250 LB Rating, Add</i>	863.01 56.39 337.52 506.28	37.64
23 05 23 00-0035 EA 3" Diameter, 125 LB Outside Stem And Yoke, Threaded, Cast Iron Body, Bronze Trim Gate Valve..... <i>For Work In Restricted Working Space, Add</i> <i>For 175 LB Rating, Add</i> <i>For 250 LB Rating, Add</i>	961.73 65.07 372.42 558.63	43.70
23 05 23 00-0036 EA 4" Diameter, 125 LB Outside Stem And Yoke, Threaded, Cast Iron Body, Bronze Trim Gate Valve..... <i>For Work In Restricted Working Space, Add</i> <i>For 175 LB Rating, Add</i> <i>For 250 LB Rating, Add</i>	1,275.23 74.01 514.26 771.39	49.34
23 05 23 00-0037 Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valves <small>(23 05 23 00-0001)</small> Note: 125 psi steam, basic rating. 200 psi cold working pressure for up to 12". 100 psi steam, basic rating. 150 psi cold working pressure for >12" to 24". 50 psi steam, basic rating. 150 psi cold working pressure for >24".		
23 05 23 00-0038 EA 1-1/2" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve <i>For Work In Restricted Working Space, Add</i> <i>For 150 LB Rating, Add</i> <i>For 175 LB Rating, Add</i> <i>For 250 LB Rating, Add</i> <i>For Chain Operated Type, Add</i>	657.31 60.44 68.37 141.31 296.29 227.92	160.79
23 05 23 00-0039 EA 2" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve <i>For Work In Restricted Working Space, Add</i> <i>For 150 LB Rating, Add</i> <i>For 175 LB Rating, Add</i> <i>For 250 LB Rating, Add</i> <i>For Chain Operated Type, Add</i>	724.59 76.57 70.41 145.50 305.09 234.69	204.13
23 05 23 00-0040 EA 2-1/2" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve <i>For Work In Restricted Working Space, Add</i> <i>For 150 LB Rating, Add</i> <i>For 175 LB Rating, Add</i> <i>For 250 LB Rating, Add</i> <i>For Chain Operated Type, Add</i>	741.03 76.90 72.71 150.26 315.06 242.35	204.42
23 05 23 00-0041 EA 3" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve <i>For Work In Restricted Working Space, Add</i> <i>For 150 LB Rating, Add</i> <i>For 175 LB Rating, Add</i> <i>For 250 LB Rating, Add</i> <i>For Chain Operated Type, Add</i>	833.26 89.99 80.00 165.32 346.65 266.65	239.67
23 05 23 00-0042 EA 4" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve <i>For Work In Restricted Working Space, Add</i> <i>For 150 LB Rating, Add</i> <i>For 175 LB Rating, Add</i> <i>For 250 LB Rating, Add</i> <i>For Chain Operated Type, Add</i>	1,150.25 151.05 97.01 200.49 420.39 323.38	401.80



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0043 EA 5" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve	1,407.47	404.73
<i>For Work In Restricted Working Space, Add</i>	151.54	
<i>For 150 LB Rating, Add</i>	135.35	
<i>For 175 LB Rating, Add</i>	279.73	
<i>For 250 LB Rating, Add</i>	586.53	
<i>For Chain Operated Type, Add</i>	451.18	
23 05 23 00-0044 EA 6" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve	1,594.65	449.69
<i>For Work In Restricted Working Space, Add</i>	169.24	
<i>For 150 LB Rating, Add</i>	154.58	
<i>For 175 LB Rating, Add</i>	319.46	
<i>For 250 LB Rating, Add</i>	669.84	
<i>For Chain Operated Type, Add</i>	515.26	
23 05 23 00-0045 EA 8" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve	2,456.70	574.61
<i>For Work In Restricted Working Space, Add</i>	214.14	
<i>For 150 LB Rating, Add</i>	261.44	
<i>For 175 LB Rating, Add</i>	540.30	
<i>For 250 LB Rating, Add</i>	1,132.89	
<i>For Chain Operated Type, Add</i>	871.45	
23 05 23 00-0046 EA 10" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve	3,556.71	699.52
<i>For Work In Restricted Working Space, Add</i>	262.32	
<i>For 150 LB Rating, Add</i>	402.35	
<i>For 175 LB Rating, Add</i>	831.52	
<i>For 250 LB Rating, Add</i>	1,743.50	
<i>For Chain Operated Type, Add</i>	1,341.16	
23 05 23 00-0047 EA 12" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve	4,459.49	849.42
<i>For Work In Restricted Working Space, Add</i>	317.96	
<i>For 150 LB Rating, Add</i>	509.94	
<i>For 175 LB Rating, Add</i>	1,053.88	
<i>For 250 LB Rating, Add</i>	2,209.75	
<i>For Chain Operated Type, Add</i>	1,699.81	
23 05 23 00-0048 EA 14" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve	8,668.64	1,135.21
<i>For Work In Restricted Working Space, Add</i>	425.70	
<i>For 150 LB Rating, Add</i>	1,087.44	
<i>For 175 LB Rating, Add</i>	2,247.39	
<i>For 250 LB Rating, Add</i>	4,712.26	
23 05 23 00-0049 EA 16" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve	11,203.65	1,248.73
<i>For Work In Restricted Working Space, Add</i>	468.27	
<i>For 150 LB Rating, Add</i>	1,446.41	
<i>For 175 LB Rating, Add</i>	2,989.25	
<i>For 250 LB Rating, Add</i>	6,267.78	
23 05 23 00-0050 EA 18" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve	15,231.20	1,384.96
<i>For Work In Restricted Working Space, Add</i>	519.36	
<i>For 150 LB Rating, Add</i>	2,025.00	
<i>For 175 LB Rating, Add</i>	4,185.00	
<i>For 250 LB Rating, Add</i>	8,775.01	
23 05 23 00-0051 EA 20" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve	19,305.63	1,560.91
<i>For Work In Restricted Working Space, Add</i>	585.34	
<i>For 150 LB Rating, Add</i>	2,603.17	
<i>For 175 LB Rating, Add</i>	5,379.89	
<i>For 250 LB Rating, Add</i>	11,280.42	
23 05 23 00-0052 EA 24" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve	26,335.48	1,915.67
<i>For Work In Restricted Working Space, Add</i>	718.37	
<i>For 150 LB Rating, Add</i>	3,591.14	
<i>For 175 LB Rating, Add</i>	7,421.68	
<i>For 250 LB Rating, Add</i>	15,561.59	
23 05 23 00-0053 EA 30" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve	54,776.69	3,121.82
<i>For Work In Restricted Working Space, Add</i>	1,170.68	
<i>For 150 LB Rating, Add</i>	7,631.16	
<i>For 175 LB Rating, Add</i>	15,771.07	
<i>For 250 LB Rating, Add</i>	33,068.37	
23 05 23 00-0054 EA 36" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve	69,843.47	4,162.44
<i>For Work In Restricted Working Space, Add</i>	1,560.91	
<i>For 150 LB Rating, Add</i>	9,696.06	
<i>For 175 LB Rating, Add</i>	20,038.53	
<i>For 250 LB Rating, Add</i>	42,016.28	
23 05 23 00-0055 EA 42" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve	82,093.77	5,343.94
<i>For Work In Restricted Working Space, Add</i>	2,003.98	
<i>For 150 LB Rating, Add</i>	11,312.08	
<i>For 175 LB Rating, Add</i>	23,378.29	
<i>For 250 LB Rating, Add</i>	49,019.00	
23 05 23 00-0056 EA 48" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve	98,793.31	6,679.93
<i>For Work In Restricted Working Space, Add</i>	2,504.97	
<i>For 150 LB Rating, Add</i>	13,566.51	
<i>For 175 LB Rating, Add</i>	28,037.45	
<i>For 250 LB Rating, Add</i>	58,788.21	
23 05 23 00-0057 EA 54" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve	118,551.98	8,015.91
<i>For Work In Restricted Working Space, Add</i>	3,005.97	
<i>For 150 LB Rating, Add</i>	16,279.81	
<i>For 175 LB Rating, Add</i>	33,644.94	
<i>For 250 LB Rating, Add</i>	70,545.85	

23 05 23 00-0058 Class 800 Outside Stem And Yoke, Threaded, Forged Steel, Chrome Trim,
 Bolted Bonnet Gate Valves (23 05 23 00-0001)
 Note: 800 psig at 850 degrees F.

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 23 General-Duty Valves For HVAC Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0059 EA 1/4" Diameter, Class 800 Outside Stem And Yoke, Threaded, Forged Steel, Chrome Trim, Bolted Bonnet Gate Valve.....	177.30	15.31
<i>For Work In Restricted Working Space, Add</i>	13.38	
23 05 23 00-0060 EA 1/2" Diameter, Class 800 Outside Stem And Yoke, Threaded, Forged Steel, Chrome Trim, Bolted Bonnet Gate Valve.....	182.11	15.31
<i>For Work In Restricted Working Space, Add</i>	14.82	
23 05 23 00-0061 EA 3/4" Diameter, Class 800 Outside Stem And Yoke, Threaded, Forged Steel, Chrome Trim, Bolted Bonnet Gate Valve.....	217.09	16.85
<i>For Work In Restricted Working Space, Add</i>	19.97	
23 05 23 00-0062 EA 1" Diameter, Class 800 Outside Stem And Yoke, Threaded, Forged Steel, Chrome Trim, Bolted Bonnet Gate Valve.....	263.49	19.14
<i>For Work In Restricted Working Space, Add</i>	24.18	
23 05 23 00-0063 EA 1-1/4" Diameter, Class 800 Outside Stem And Yoke, Threaded, Forged Steel, Chrome Trim, Bolted Bonnet Gate Valve.....	397.17	20.37
<i>For Work In Restricted Working Space, Add</i>	30.63	
23 05 23 00-0064 EA 1-1/2" Diameter, Class 800 Outside Stem And Yoke, Threaded, Forged Steel, Chrome Trim, Bolted Bonnet Gate Valve.....	469.00	23.58
<i>For Work In Restricted Working Space, Add</i>	35.34	
23 05 23 00-0065 EA 2" Diameter, Class 800 Outside Stem And Yoke, Threaded, Forged Steel, Chrome Trim, Bolted Bonnet Gate Valve.....	587.52	27.87
<i>For Work In Restricted Working Space, Add</i>	41.76	
23 05 23 00-0066 Ball Valves <small>(23 05 23)</small>		
See CSI section 23 23 13 00-0000 for refrigeration valves.		
23 05 23 00-0067 Threaded Or Sweated, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valves <small>(23 05 23 00-0066)</small>		
Note: 125 LB WSP.		
23 05 23 00-0068 EA 1/2" Threaded Or Sweated, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....	63.17	15.31
<i>For Extension Stems And Sleeves On Insulated Pipe, Add</i>	2.63	
<i>For Full Port, Add</i>	6.20	
<i>For Work In Restricted Working Space, Add</i>	14.82	
23 05 23 00-0069 EA 3/4" Threaded Or Sweated, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....	87.75	16.85
<i>For Extension Stems And Sleeves On Insulated Pipe, Add</i>	2.63	
<i>For Full Port, Add</i>	9.53	
<i>For Work In Restricted Working Space, Add</i>	19.97	
23 05 23 00-0070 EA 1" Threaded Or Sweated, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....	109.19	19.14
<i>For Extension Stems And Sleeves On Insulated Pipe, Add</i>	2.63	
<i>For Full Port, Add</i>	12.87	
<i>For Work In Restricted Working Space, Add</i>	24.18	
23 05 23 00-0071 EA 1-1/4" Threaded Or Sweated, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....	150.09	20.37
<i>For Extension Stems And Sleeves On Insulated Pipe, Add</i>	2.63	
<i>For Full Port, Add</i>	21.60	
<i>For Work In Restricted Working Space, Add</i>	30.63	
23 05 23 00-0072 EA 1-1/2" Threaded Or Sweated, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....	179.09	23.58
<i>For Extension Stems And Sleeves On Insulated Pipe, Add</i>	2.63	
<i>For Full Port, Add</i>	27.59	
<i>For Work In Restricted Working Space, Add</i>	35.34	
23 05 23 00-0073 EA 2" Threaded Or Sweated, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....	216.00	27.87
<i>For Extension Stems And Sleeves On Insulated Pipe, Add</i>	2.63	
<i>For Full Port, Add</i>	34.56	
<i>For Work In Restricted Working Space, Add</i>	41.76	
23 05 23 00-0074 EA 2-1/2" Threaded Or Sweated, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....	550.37	37.64
<i>For Extension Stems And Sleeves On Insulated Pipe, Add</i>	2.63	
<i>For Full Port, Add</i>	163.08	
<i>For Work In Restricted Working Space, Add</i>	56.39	
23 05 23 00-0075 EA 3" Threaded Or Sweated, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....	635.03	43.70
<i>For Extension Stems And Sleeves On Insulated Pipe, Add</i>	2.63	
<i>For Full Port, Add</i>	188.16	
<i>For Work In Restricted Working Space, Add</i>	65.07	
23 05 23 00-0076 EA 4" Threaded Or Sweated, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....	816.78	49.34
<i>For Extension Stems And Sleeves On Insulated Pipe, Add</i>	2.63	
<i>For Full Port, Add</i>	256.53	
<i>For Work In Restricted Working Space, Add</i>	74.01	
23 05 23 00-0077 Screwed, 150 LB, Full Port, Carbon Steel Ball Valves <small>(23 05 23 00-0066)</small>		
23 05 23 00-0078 EA 1/4" Screwed, 150 LB, Full Port, Carbon Steel Ball Valve.....	70.95	15.31
<i>For Work In Restricted Working Space, Add</i>	13.38	
23 05 23 00-0079 EA 1/2" Screwed, 150 LB, Full Port, Carbon Steel Ball Valve.....	78.01	15.31
<i>For Work In Restricted Working Space, Add</i>	14.82	
23 05 23 00-0080 EA 3/4" Screwed, 150 LB, Full Port, Carbon Steel Ball Valve.....	107.94	16.85
<i>For Work In Restricted Working Space, Add</i>	19.97	
23 05 23 00-0081 EA 1" Screwed, 150 LB, Full Port, Carbon Steel Ball Valve.....	136.24	19.14
<i>For Work In Restricted Working Space, Add</i>	24.18	
23 05 23 00-0082 EA 1-1/4" Screwed, 150 LB, Full Port, Carbon Steel Ball Valve.....	197.18	20.37
<i>For Work In Restricted Working Space, Add</i>	30.63	
23 05 23 00-0083 EA 1-1/2" Screwed, 150 LB, Full Port, Carbon Steel Ball Valve.....	238.25	23.58
<i>For Work In Restricted Working Space, Add</i>	35.34	
23 05 23 00-0084 EA 2" Screwed, 150 LB, Full Port, Carbon Steel Ball Valve.....	305.07	27.87
<i>For Work In Restricted Working Space, Add</i>	41.76	
23 05 23 00-0085 Flanged, 150 LB, Full Port, Carbon Steel Ball Valves <small>(23 05 23 00-0066)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0086 EA 1-1/2" Flanged, 150 LB, Full Port, Carbon Steel Ball Valve	438.89	160.79
For Work In Restricted Working Space, Add	60.44	
For 150 LB Rating, Add	68.85	
For 250 LB Rating, Add	118.71	
For 300 LB Rating, ASTM A182, Add	338.15	
For Chain Operated Type, Add	118.71	
For Work In Restricted Working Space, Add	60.44	
23 05 23 00-0087 EA 2" Flanged, 150 LB, Full Port, Carbon Steel Ball Valve	549.75	204.13
For Work In Restricted Working Space, Add	76.57	
For 150 LB Rating, Add	85.41	
For 250 LB Rating, Add	147.27	
For 300 LB Rating, ASTM A182, Add	422.14	
For Chain Operated Type, Add	147.27	
For Work In Restricted Working Space, Add	76.57	
23 05 23 00-0088 EA 2-1/2" Flanged, 150 LB, Full Port, Carbon Steel Ball Valve	794.37	204.42
For Work In Restricted Working Space, Add	76.90	
For 150 LB Rating, Add	156.03	
For 250 LB Rating, Add	269.02	
For 300 LB Rating, ASTM A182, Add	666.21	
For Chain Operated Type, Add	269.02	
For Work In Restricted Working Space, Add	76.90	
23 05 23 00-0089 EA 3" Flanged, 150 LB, Full Port, Carbon Steel Ball Valve	881.69	239.67
For Work In Restricted Working Space, Add	89.99	
For 150 LB Rating, Add	168.70	
For 250 LB Rating, Add	290.87	
For 300 LB Rating, ASTM A182, Add	731.71	
For Chain Operated Type, Add	290.87	
For Work In Restricted Working Space, Add	89.99	
23 05 23 00-0090 EA 4" Flanged, 150 LB, Full Port, Carbon Steel Ball Valve	1,320.59	401.80
For Work In Restricted Working Space, Add	151.05	
23 05 23 00-0091 EA 6" Flanged, 150 LB, Full Port, Carbon Steel Ball Valve	2,779.55	449.69
For Work In Restricted Working Space, Add	169.24	
23 05 23 00-0092 EA 8" Flanged, 150 LB, Full Port, Carbon Steel Ball Valve	4,644.59	574.61
For Work In Restricted Working Space, Add	214.14	
23 05 23 00-0093 Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valves <small>(23 05 23 00-0066)</small>		
23 05 23 00-0094 EA 1/2" Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valve	62.32	15.31
For True Union Socket Or Thread Type, Add	7.76	
For Work In Restricted Working Space, Add	14.82	
23 05 23 00-0095 EA 3/4" Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valve	81.44	16.85
For True Union Socket Or Thread Type, Add	9.44	
For Work In Restricted Working Space, Add	19.97	
23 05 23 00-0096 EA 1" Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valve	101.32	19.14
For True Union Socket Or Thread Type, Add	12.52	
For Work In Restricted Working Space, Add	24.18	
23 05 23 00-0097 EA 1-1/4" Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valve	129.30	20.37
For True Union Socket Or Thread Type, Add	16.24	
For Work In Restricted Working Space, Add	30.63	
23 05 23 00-0098 EA 1-1/2" Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valve	165.13	23.58
For True Union Socket Or Thread Type, Add	25.12	
For Work In Restricted Working Space, Add	35.34	
23 05 23 00-0099 EA 2" Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valve	199.54	27.87
For True Union Socket Or Thread Type, Add	31.44	
For Work In Restricted Working Space, Add	41.76	
23 05 23 00-0100 EA 2-1/2" Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valve	317.78	37.64
For True Union Socket Or Thread Type, Add	61.79	
For Work In Restricted Working Space, Add	56.39	
23 05 23 00-0101 EA 3" Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valve	437.62	43.70
For True Union Socket Or Thread Type, Add	99.68	
For Work In Restricted Working Space, Add	65.07	
23 05 23 00-0102 EA 4" Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valve	668.75	49.34
For True Union Socket Or Thread Type, Add	181.77	
For Work In Restricted Working Space, Add	74.01	
23 05 23 00-0103 Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valves <small>(23 05 23 00-0066)</small>		
23 05 23 00-0104 EA 1/4" Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve	108.31	22.97
For Full Port, Add	18.64	
For Work In Restricted Working Space, Add	20.07	
23 05 23 00-0105 EA 3/8" Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve	111.82	22.97
For Full Port, Add	18.64	
For Work In Restricted Working Space, Add	21.12	
23 05 23 00-0106 EA 1/2" Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve	115.51	22.97
For Full Port, Add	18.64	
For Work In Restricted Working Space, Add	22.23	
23 05 23 00-0107 EA 3/4" Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve	143.78	25.27
For Full Port, Add	19.76	
For Work In Restricted Working Space, Add	29.96	
23 05 23 00-0108 EA 1" Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve	185.95	28.71
For Full Port, Add	29.27	
For Work In Restricted Working Space, Add	36.27	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 23 General-Duty Valves For HVAC Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0109 EA 1-1/4" Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve	242.16	30.55
For Full Port, Add	40.06	
For Work In Restricted Working Space, Add	45.94	
23 05 23 00-0110 EA 1-1/2" Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve	295.07	35.37
For Full Port, Add	53.27	
For Work In Restricted Working Space, Add	53.01	
23 05 23 00-0111 EA 2" Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....	401.46	41.81
For Full Port, Add	86.69	
For Work In Restricted Working Space, Add	62.64	
23 05 23 00-0112 EA 2-1/2" Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve	749.48	56.46
For Full Port, Add	210.38	
For Work In Restricted Working Space, Add	84.59	
23 05 23 00-0113 EA 3" Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....	1,067.73	65.55
For Full Port, Add	334.07	
For Work In Restricted Working Space, Add	97.61	
23 05 23 00-0114 Wye Strainer, Union With Two Pressure Ports, Ball Valves (23 05 23 00-0066)		
23 05 23 00-0115 EA 1/2" Diameter, Wye Strainer, Union With Two Pressure Ports, Ball Valve.....	185.12	15.31
23 05 23 00-0116 EA 3/4" Diameter, Wye Strainer, Union With Two Pressure Ports, Ball Valve.....	238.21	19.90
23 05 23 00-0117 EA 1" Diameter, Wye Strainer, Union With Two Pressure Ports, Ball Valve.....	305.81	24.50
23 05 23 00-0118 EA 1-1/4" Diameter, Wye Strainer, Union With Two Pressure Ports, Ball Valve	415.53	33.68
23 05 23 00-0119 EA 1-1/2" Diameter, Wye Strainer, Union With Two Pressure Ports, Ball Valve	517.41	39.20
23 05 23 00-0120 EA 2" Diameter, Wye Strainer, Union With Two Pressure Ports, Ball Valve.....	679.12	45.94
23 05 23 00-0121 Plastic Ball Valves (23 05 23 00-0066)		
Note: Threaded or socket.		
23 05 23 00-0122 Ethylene Propylene Diene Monomer (EPDM) Liner And Seals, Polyvinyl Chloride (PVC) Ball Valves (23 05 23 00-0121)		
23 05 23 00-0123 EA 3/8" Ethylene Propylene Diene Monomer (EPDM) Liner And Seals, Polyvinyl Chloride (PVC) Ball Valve (George Fisher Type 346)	84.25	15.31
23 05 23 00-0124 EA 1/2" Ethylene Propylene Diene Monomer (EPDM) Liner And Seals, Polyvinyl Chloride (PVC) Ball Valve (George Fisher Type 346)	87.98	15.31
23 05 23 00-0125 EA 3/4" Ethylene Propylene Diene Monomer (EPDM) Liner And Seals, Polyvinyl Chloride (PVC) Ball Valve (George Fisher Type 346)	112.29	16.85
23 05 23 00-0126 EA 1" Ethylene Propylene Diene Monomer (EPDM) Liner And Seals, Polyvinyl Chloride (PVC) Ball Valve (George Fisher Type 346)	145.00	19.14
23 05 23 00-0127 EA 1-1/4" Ethylene Propylene Diene Monomer (EPDM) Liner And Seals, Polyvinyl Chloride (PVC) Ball Valve (George Fisher Type 346)	173.91	20.37
23 05 23 00-0128 EA 1-1/2" Ethylene Propylene Diene Monomer (EPDM) Liner And Seals, Polyvinyl Chloride (PVC) Ball Valve (George Fisher Type 346)	209.17	23.58
23 05 23 00-0129 EA 2" Ethylene Propylene Diene Monomer (EPDM) Liner And Seals, Polyvinyl Chloride (PVC) Ball Valve (George Fisher Type 346)	253.77	27.87
23 05 23 00-0130 Viton Liner And Seals, Chlorinated Polyvinyl Chloride (CPVC) Ball Valves (23 05 23 00-0121)		
23 05 23 00-0131 EA 3/8" Viton Liner And Seals, Chlorinated Polyvinyl Chloride (CPVC) Ball Valve (George Fisher Type 346)	120.75	15.31
23 05 23 00-0132 EA 1/2" Viton Liner And Seals, Chlorinated Polyvinyl Chloride (CPVC) Ball Valve (George Fisher Type 346)	122.82	15.31
23 05 23 00-0133 EA 3/4" Viton Liner And Seals, Chlorinated Polyvinyl Chloride (CPVC) Ball Valve (George Fisher Type 346)	155.42	16.85
23 05 23 00-0134 EA 1" Viton Liner And Seals, Chlorinated Polyvinyl Chloride (CPVC) Ball Valve (George Fisher Type 346)	191.74	19.14
23 05 23 00-0135 EA 1-1/4" Viton Liner And Seals, Chlorinated Polyvinyl Chloride (CPVC) Ball Valve (George Fisher Type 346)	284.56	20.37
23 05 23 00-0136 EA 1-1/2" Viton Liner And Seals, Chlorinated Polyvinyl Chloride (CPVC) Ball Valve (George Fisher Type 346)	316.85	23.58
23 05 23 00-0137 EA 2" Viton Liner And Seals, Chlorinated Polyvinyl Chloride (CPVC) Ball Valve (George Fisher Type 346)	379.74	27.87
23 05 23 00-0138 Viton Liner And Seals, Polypropylene (PP) Ball Valves (23 05 23 00-0121)		
23 05 23 00-0139 EA 3/8" Viton Liner And Seals, Polypropylene (PP) Ball Valve (George Fisher Type 346)	133.19	15.31
23 05 23 00-0140 EA 1/2" Viton Liner And Seals, Polypropylene (PP) Ball Valve (George Fisher Type 346)	143.55	15.31
23 05 23 00-0141 EA 3/4" Viton Liner And Seals, Polypropylene (PP) Ball Valve (George Fisher Type 346)	167.03	16.85
23 05 23 00-0142 EA 1" Viton Liner And Seals, Polypropylene (PP) Ball Valve (George Fisher Type 346)	205.01	19.14
23 05 23 00-0143 EA 1-1/4" Viton Liner And Seals, Polypropylene (PP) Ball Valve (George Fisher Type 346)	258.02	20.37
23 05 23 00-0144 EA 1-1/2" Viton Liner And Seals, Polypropylene (PP) Ball Valve (George Fisher Type 346)	308.55	23.58
23 05 23 00-0145 EA 2" Viton Liner And Seals, Polypropylene (PP) Ball Valve (George Fisher Type 346)	396.32	27.87
23 05 23 00-0146 Viton Liner And Seals, Polyvinylidene Fluoride (PVDF) Ball Valves (23 05 23 00-0121)		
23 05 23 00-0147 EA 3/8" Viton Liner And Seals, Polyvinylidene Fluoride (PVDF) Ball Valve (George Fisher Type 346).....	255.94	15.31
23 05 23 00-0148 EA 1/2" Viton Liner And Seals, Polyvinylidene Fluoride (PVDF) Ball Valve (George Fisher Type 346).....	272.94	15.31
23 05 23 00-0149 EA 3/4" Viton Liner And Seals, Polyvinylidene Fluoride (PVDF) Ball Valve (George Fisher Type 346).....	326.27	16.85
23 05 23 00-0150 EA 1" Viton Liner And Seals, Polyvinylidene Fluoride (PVDF) Ball Valve (George Fisher Type 346)	382.50	19.14
23 05 23 00-0151 EA 1-1/4" Viton Liner And Seals, Polyvinylidene Fluoride (PVDF) Ball Valve (George Fisher Type 346)	467.03	20.37
23 05 23 00-0152 EA 1-1/2" Viton Liner And Seals, Polyvinylidene Fluoride (PVDF) Ball Valve (George Fisher Type 346)	515.90	23.58
23 05 23 00-0153 EA 2" Viton Liner And Seals, Polyvinylidene Fluoride (PVDF) Ball Valve (George Fisher Type 346)	595.38	27.87
23 05 23 00-0154 Ethylene Propylene Diene Monomer (EPDM) Seals And Teflon Seats, Polyvinyl Chloride (PVC) Ball Valves (23 05 23 00-0121)		
23 05 23 00-0155 EA 1/2" Ethylene Propylene Diene Monomer (EPDM) Seals And Teflon Seats, Polyvinyl Chloride (PVC) Ball Valve (Hayward QIC Compact)	61.69	15.31



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0156 EA 3/4" Ethylene Propylene Diene Monomer (EPDM) Seals And Teflon Seats, Polyvinyl Chloride (PVC) Ball Valve (Hayward QIC Compact)	82.68	16.85
23 05 23 00-0157 EA 1" Ethylene Propylene Diene Monomer (EPDM) Seals And Teflon Seats, Polyvinyl Chloride (PVC) Ball Valve (Hayward QIC Compact)	100.51	19.14
23 05 23 00-0158 EA 1-1/4" Ethylene Propylene Diene Monomer (EPDM) Seals And Teflon Seats, Polyvinyl Chloride (PVC) Ball Valve (Hayward QIC Compact)	137.26	20.37
23 05 23 00-0159 EA 1-1/2" Ethylene Propylene Diene Monomer (EPDM) Seals And Teflon Seats, Polyvinyl Chloride (PVC) Ball Valve (Hayward QIC Compact)	152.96	23.58
23 05 23 00-0160 EA 2" Ethylene Propylene Diene Monomer (EPDM) Seals And Teflon Seats, Polyvinyl Chloride (PVC) Ball Valve (Hayward QIC Compact)	185.57	27.87
 23 05 23 00-0161 Plastic, True Union, Ball Valves <small>(23 05 23 00-0066)</small>		
23 05 23 00-0162 Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC) Or Chlorinated Polyvinyl Chloride (CPVC), True Union, Vertical Ball Valves <small>(23 05 23 00-0161)</small>		
<i>Note: Socket or NPT connectors.</i>		
23 05 23 00-0163 EA 3/8" Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC) Or Chlorinated Polyvinyl Chloride (CPVC), True Union, Vertical Ball Valve (George Fisher Type 343)	129.87	15.31
23 05 23 00-0164 EA 1/2" Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC) Or Chlorinated Polyvinyl Chloride (CPVC), True Union, Vertical Ball Valve (George Fisher Type 343)	135.26	15.31
23 05 23 00-0165 EA 3/4" Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC) Or Chlorinated Polyvinyl Chloride (CPVC), True Union, Vertical Ball Valve (George Fisher Type 343)	165.37	16.85
23 05 23 00-0166 EA 1" Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC) Or Chlorinated Polyvinyl Chloride (CPVC), True Union, Vertical Ball Valve (George Fisher Type 343)	203.35	19.14
23 05 23 00-0167 EA 1-1/4" Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC) Or Chlorinated Polyvinyl Chloride (CPVC), True Union, Vertical Ball Valve (George Fisher Type 343)	246.41	20.37
23 05 23 00-0168 EA 1-1/2" Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC) Or Chlorinated Polyvinyl Chloride (CPVC), True Union, Vertical Ball Valve (George Fisher Type 343)	283.67	23.58
23 05 23 00-0169 EA 2" Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC) Or Chlorinated Polyvinyl Chloride (CPVC), True Union, Vertical Ball Valve (George Fisher Type 343)	346.56	27.87
 23 05 23 00-0170 Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC) Or Chlorinated Polyvinyl Chloride (CPVC), True Union, Horizontal Ball Valves <small>(23 05 23 00-0161)</small>		
<i>Note: Socket or NPT connectors.</i>		
23 05 23 00-0171 EA 3/8" Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC) Or Chlorinated Polyvinyl Chloride (CPVC), True Union, Horizontal Ball Valve (George Fisher Type 343)	131.53	15.31
23 05 23 00-0172 EA 1/2" Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC) Or Chlorinated Polyvinyl Chloride (CPVC), True Union, Horizontal Ball Valve (George Fisher Type 343)	151.85	15.31
23 05 23 00-0173 EA 3/4" Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC) Or Chlorinated Polyvinyl Chloride (CPVC), True Union, Horizontal Ball Valve (George Fisher Type 343)	167.03	16.85
23 05 23 00-0174 EA 1" Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC) Or Chlorinated Polyvinyl Chloride (CPVC), True Union, Horizontal Ball Valve (George Fisher Type 343)	203.35	19.14
23 05 23 00-0175 EA 1-1/4" Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC) Or Chlorinated Polyvinyl Chloride (CPVC), True Union, Horizontal Ball Valve (George Fisher Type 343)	243.09	20.37
23 05 23 00-0176 EA 1-1/2" Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC) Or Chlorinated Polyvinyl Chloride (CPVC), True Union, Horizontal Ball Valve (George Fisher Type 343)	282.01	23.58
23 05 23 00-0177 EA 2" Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC) Or Chlorinated Polyvinyl Chloride (CPVC), True Union, Horizontal Ball Valve (George Fisher Type 343)	346.56	27.87
 23 05 23 00-0178 Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC), True Union, Ball Valves <small>(23 05 23 00-0161)</small>		
<i>Note: Socket or NPT connectors.</i>		
23 05 23 00-0179 EA 1/2" Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC), True Union, Ball Valve (George Fisher Type 560)	77.20	15.31
23 05 23 00-0180 EA 3/4" Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC), True Union, Ball Valve (George Fisher Type 560)	99.85	16.85
23 05 23 00-0181 EA 1" Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC), True Union, Ball Valve (George Fisher Type 560)	120.41	19.14
23 05 23 00-0182 EA 1-1/4" Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC), True Union, Ball Valve (George Fisher Type 560)	157.66	20.37
23 05 23 00-0183 EA 1-1/2" Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC), True Union, Ball Valve (George Fisher Type 560)	184.14	23.58
23 05 23 00-0184 EA 2" Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC), True Union, Ball Valve (George Fisher Type 560)	247.03	27.87
23 05 23 00-0185 EA 2-1/2" Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC), True Union, Ball Valve (George Fisher Type 560)	343.90	37.64
23 05 23 00-0186 EA 3" Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC), True Union, Ball Valve (George Fisher Type 560)	429.22	43.70
23 05 23 00-0187 EA 4" Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC), True Union, Ball Valve (George Fisher Type 560)	595.06	49.34
 23 05 23 00-0188 Ethylene Propylene Diene Monomer (EPDM) Seals, Chlorinated Polyvinyl Chloride (CPVC), True Union, Ball Valves <small>(23 05 23 00-0161)</small>		
<i>Note: Socket or NPT connectors.</i>		

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 23 General-Duty Valves For HVAC Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0189 EA 1/2" Ethylene Propylene Diene Monomer (EPDM) Seals, Chlorinated Polyvinyl Chloride (CPVC), True Union, Ball Valve (George Fisher Type 560)	88.81	15.31
23 05 23 00-0190 EA 3/4" Ethylene Propylene Diene Monomer (EPDM) Seals, Chlorinated Polyvinyl Chloride (CPVC), True Union, Ball Valve (George Fisher Type 560)	116.43	16.85
23 05 23 00-0191 EA 1" Ethylene Propylene Diene Monomer (EPDM) Seals, Chlorinated Polyvinyl Chloride (CPVC), True Union, Ball Valve (George Fisher Type 560)	143.63	19.14
23 05 23 00-0192 EA 1-1/4" Ethylene Propylene Diene Monomer (EPDM) Seals, Chlorinated Polyvinyl Chloride (CPVC), True Union, Ball Valve (George Fisher Type 560).....	198.30	20.37
23 05 23 00-0193 EA 1-1/2" Ethylene Propylene Diene Monomer (EPDM) Seals, Chlorinated Polyvinyl Chloride (CPVC), True Union, Ball Valve (George Fisher Type 560).....	218.98	23.58
23 05 23 00-0194 EA 2" Ethylene Propylene Diene Monomer (EPDM) Seals, Chlorinated Polyvinyl Chloride (CPVC), True Union, Ball Valve (George Fisher Type 560)	278.55	27.87
23 05 23 00-0195 EA 2-1/2" Ethylene Propylene Diene Monomer (EPDM) Seals, Chlorinated Polyvinyl Chloride (CPVC), True Union, Ball Valve (George Fisher Type 560).....	469.97	37.64
23 05 23 00-0196 EA 3" Ethylene Propylene Diene Monomer (EPDM) Seals, Chlorinated Polyvinyl Chloride (CPVC), True Union, Ball Valve (George Fisher Type 560)	548.65	43.70
23 05 23 00-0197 EA 4" Ethylene Propylene Diene Monomer (EPDM) Seals, Chlorinated Polyvinyl Chloride (CPVC), True Union, Ball Valve (George Fisher Type 560)	827.29	49.34
23 05 23 00-0198 Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valves (23 05 23 00-0161)		
23 05 23 00-0199 Socket, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valves (23 05 23 00-0198)		
23 05 23 00-0200 EA 1/4" Socket, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve	74.03	15.31
23 05 23 00-0201 EA 3/8" Socket, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve	76.37	15.31
23 05 23 00-0202 EA 1/2" Socket, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve	78.44	15.31
23 05 23 00-0203 EA 3/4" Socket, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve	100.84	16.85
23 05 23 00-0204 EA 1" Socket, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve.....	123.63	19.14
23 05 23 00-0205 EA 1-1/4" Socket, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve	149.39	20.37
23 05 23 00-0206 EA 1-1/2" Socket, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve	179.26	23.58
23 05 23 00-0207 EA 2" Socket, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve.....	228.79	27.87
23 05 23 00-0208 EA 2-1/2" Socket, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve	409.42	37.64
23 05 23 00-0209 EA 3" Socket, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve.....	457.42	43.70
23 05 23 00-0210 EA 4" Socket, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve.....	620.77	49.34
23 05 23 00-0211 Threaded, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valves (23 05 23 00-0198)		
23 05 23 00-0212 EA 1/4" Threaded, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve	74.03	15.31
23 05 23 00-0213 EA 3/8" Threaded, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve	76.37	15.31
23 05 23 00-0214 EA 1/2" Threaded, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve	78.44	15.31
23 05 23 00-0215 EA 3/4" Threaded, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve	100.84	16.85
23 05 23 00-0216 EA 1" Threaded, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve	123.63	19.14
23 05 23 00-0217 EA 1-1/4" Threaded, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve	149.39	20.37
23 05 23 00-0218 EA 1-1/2" Threaded, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve	179.26	23.58
23 05 23 00-0219 EA 2" Threaded, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve	228.79	27.87
23 05 23 00-0220 EA 2-1/2" Threaded, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve	409.42	37.64
23 05 23 00-0221 EA 3" Threaded, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve	457.42	43.70
23 05 23 00-0222 EA 4" Threaded, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve	620.77	49.34
23 05 23 00-0223 Three Piece Ball Valves (23 05 23 00-0066)		
23 05 23 00-0224 Threaded Or Sweated, Bronze Body, Three Piece Ball Valves (23 05 23 00-0223)		
23 05 23 00-0225 EA 1/4" Threaded Or Sweated, Bronze Body, Three Piece Ball Valve.....	110.22	15.31
<i>For Work In Restricted Working Space, Add</i>	13.38	
23 05 23 00-0226 EA 3/8" Threaded Or Sweated, Bronze Body, Three Piece Ball Valve.....	112.56	15.31
<i>For Work In Restricted Working Space, Add</i>	14.08	
23 05 23 00-0227 EA 1/2" Threaded Or Sweated, Bronze Body, Three Piece Ball Valve.....	125.47	15.31
<i>For Work In Restricted Working Space, Add</i>	14.82	
23 05 23 00-0228 EA 3/4" Threaded Or Sweated, Bronze Body, Three Piece Ball Valve.....	159.93	16.85
<i>For Work In Restricted Working Space, Add</i>	19.97	
23 05 23 00-0229 EA 1" Threaded Or Sweated, Bronze Body, Three Piece Ball Valve.....	203.20	19.14
<i>For Work In Restricted Working Space, Add</i>	24.18	
23 05 23 00-0230 EA 1-1/4" Threaded Or Sweated, Bronze Body, Three Piece Ball Valve.....	278.33	20.37
<i>For Work In Restricted Working Space, Add</i>	30.63	
23 05 23 00-0231 EA 1-1/2" Threaded Or Sweated, Bronze Body, Three Piece Ball Valve.....	345.96	23.58
<i>For Work In Restricted Working Space, Add</i>	35.34	
23 05 23 00-0232 EA 2" Threaded Or Sweated, Bronze Body, Three Piece Ball Valve.....	552.62	27.87
<i>For Work In Restricted Working Space, Add</i>	41.76	
23 05 23 00-0233 EA 2-1/2" Threaded Or Sweated, Bronze Body, Three Piece Ball Valve.....	1,165.33	39.97
<i>For Work In Restricted Working Space, Add</i>	61.24	
23 05 23 00-0234 Threaded, Carbon Steel Body, Three Piece Ball Valves (23 05 23 00-0223)		
23 05 23 00-0235 EA 1/4" Threaded, Carbon Steel Body, Three Piece Ball Valve	126.06	15.31
<i>For Work In Restricted Working Space, Add</i>	13.38	
23 05 23 00-0236 EA 3/8" Threaded, Carbon Steel Body, Three Piece Ball Valve	137.57	15.31
<i>For Work In Restricted Working Space, Add</i>	14.08	
23 05 23 00-0237 EA 1/2" Threaded, Carbon Steel Body, Three Piece Ball Valve	145.90	15.31
<i>For Work In Restricted Working Space, Add</i>	14.82	
23 05 23 00-0238 EA 3/4" Threaded, Carbon Steel Body, Three Piece Ball Valve	229.74	16.85
<i>For Work In Restricted Working Space, Add</i>	19.97	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0239 EA 1" Threaded, Carbon Steel Body, Three Piece Ball Valve <i>For Work In Restricted Working Space, Add</i>	292.40 24.18	19.14
23 05 23 00-0240 EA 1-1/4" Threaded, Carbon Steel Body, Three Piece Ball Valve <i>For Work In Restricted Working Space, Add</i>	437.77 30.63	20.37
23 05 23 00-0241 EA 1-1/2" Threaded, Carbon Steel Body, Three Piece Ball Valve <i>For Work In Restricted Working Space, Add</i>	554.01 35.34	23.58
23 05 23 00-0242 EA 2" Threaded, Carbon Steel Body, Three Piece Ball Valve <i>For Work In Restricted Working Space, Add</i>	716.97 41.76	27.87
23 05 23 00-0243 Threaded, Stainless Steel Body, Three Piece Ball Valves (23 05 23 00-0223)		
23 05 23 00-0244 EA 1/4" Threaded, Stainless Steel Body, Three Piece Ball Valve <i>For Work In Restricted Working Space, Add</i>	308.01 13.38	15.31
23 05 23 00-0245 EA 3/8" Threaded, Stainless Steel Body, Three Piece Ball Valve <i>For Work In Restricted Working Space, Add</i>	329.97 14.08	15.31
23 05 23 00-0246 EA 1/2" Threaded, Stainless Steel Body, Three Piece Ball Valve <i>For Work In Restricted Working Space, Add</i>	347.79 14.82	15.31
23 05 23 00-0247 EA 3/4" Threaded, Stainless Steel Body, Three Piece Ball Valve <i>For Work In Restricted Working Space, Add</i>	503.35 19.97	16.85
23 05 23 00-0248 EA 1" Threaded, Stainless Steel Body, Three Piece Ball Valve <i>For Work In Restricted Working Space, Add</i>	613.51 24.18	19.14
23 05 23 00-0249 EA 1-1/4" Threaded, Stainless Steel Body, Three Piece Ball Valve <i>For Work In Restricted Working Space, Add</i>	718.43 30.63	20.37
23 05 23 00-0250 EA 1-1/2" Threaded, Stainless Steel Body, Three Piece Ball Valve <i>For Work In Restricted Working Space, Add</i>	957.53 35.34	23.58
23 05 23 00-0251 EA 2" Threaded, Stainless Steel Body, Three Piece Ball Valve <i>For Work In Restricted Working Space, Add</i>	1,242.83 41.76	27.87
23 05 23 00-0252 EA 3" Threaded, Stainless Steel Body, Three Piece Ball Valve <i>For Work In Restricted Working Space, Add</i>	3,236.59 70.68	47.47
23 05 23 00-0253 Globe Valves (23 05 23)		
23 05 23 00-0254 Threaded Or Sweated, 125 LB, Bronze Body, Globe Valves (23 05 23 00-0253)		
23 05 23 00-0255 EA 1/8" Threaded Or Sweated, 125 LB, Bronze Body, Globe Valve <i>For 150 LB Rating, Add</i> <i>For 200 LB Rating, Add</i> <i>For 250 LB Rating, Add</i> <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	85.81 11.29 13.84 16.38 20.03 14.82	15.31
23 05 23 00-0256 EA 1/4" Threaded Or Sweated, 125 LB, Bronze Body, Globe Valve <i>For 150 LB Rating, Add</i> <i>For 200 LB Rating, Add</i> <i>For 250 LB Rating, Add</i> <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	81.00 11.29 13.84 16.38 20.03 13.38	15.31
23 05 23 00-0257 EA 3/8" Threaded Or Sweated, 125 LB, Bronze Body, Globe Valve <i>For 150 LB Rating, Add</i> <i>For 200 LB Rating, Add</i> <i>For 250 LB Rating, Add</i> <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	101.28 16.85 20.65 24.46 29.89 14.08	15.31
23 05 23 00-0258 EA 1/2" Threaded Or Sweated, 125 LB, Bronze Body, Globe Valve <i>For 150 LB Rating, Add</i> <i>For 200 LB Rating, Add</i> <i>For 250 LB Rating, Add</i> <i>For 300 LB Rating, Add</i> <i>For 600 LB Rating, Forged Steel, Bolted Bonnet, Socket Weld, Add</i> <i>For Work In Restricted Working Space, Add</i>	103.75 16.85 20.65 24.46 29.89 79.55 14.82	15.31
23 05 23 00-0259 EA 3/4" Threaded Or Sweated, 125 LB, Bronze Body, Globe Valve <i>For 150 LB Rating, Add</i> <i>For 200 LB Rating, Add</i> <i>For 250 LB Rating, Add</i> <i>For 300 LB Rating, Add</i> <i>For 600 LB Rating, Forged Steel, Bolted Bonnet, Socket Weld, Add</i> <i>For Work In Restricted Working Space, Add</i>	125.48 18.26 22.39 26.51 32.40 91.43 19.97	16.08
23 05 23 00-0260 EA 1" Threaded Or Sweated, 125 LB, Bronze Body, Globe Valve <i>For 150 LB Rating, Add</i> <i>For 200 LB Rating, Add</i> <i>For 250 LB Rating, Add</i> <i>For 300 LB Rating, Add</i> <i>For 600 LB Rating, Forged Steel, Bolted Bonnet, Socket Weld, Add</i> <i>For Work In Restricted Working Space, Add</i>	160.22 24.68 30.26 35.83 43.79 119.82 24.18	16.08
23 05 23 00-0261 EA 1-1/4" Threaded Or Sweated, 125 LB, Bronze Body, Globe Valve <i>For 150 LB Rating, Add</i> <i>For 200 LB Rating, Add</i> <i>For 250 LB Rating, Add</i> <i>For 300 LB Rating, Add</i> <i>For 600 LB Rating, Forged Steel, Bolted Bonnet, Socket Weld, Add</i> <i>For Work In Restricted Working Space, Add</i>	239.60 42.63 52.25 61.88 75.63 192.10 30.63	20.37

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 05 Common Work Results for HVAC

23 05 23 General-Duty Valves For HVAC Piping



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0262 EA 1-1/2" Threaded Or Sweated, 125 LB, Bronze Body, Globe Valve.....	314.32	23.58
For 150 LB Rating, Add	60.92	
For 200 LB Rating, Add	74.68	
For 250 LB Rating, Add	88.44	
For 300 LB Rating, Add	108.09	
For 600 LB Rating, Forged Steel, Bolted Bonnet, Socket Weld, Add	263.30	
For Work In Restricted Working Space, Add	35.34	
23 05 23 00-0263 EA 2" Threaded Or Sweated, 125 LB, Bronze Body, Globe Valve.....	370.25	27.87
For 150 LB Rating, Add	71.62	
For 200 LB Rating, Add	87.80	
For 250 LB Rating, Add	103.97	
For 300 LB Rating, Add	127.07	
For 600 LB Rating, Forged Steel, Bolted Bonnet, Socket Weld, Add	309.83	
For Work In Restricted Working Space, Add	41.76	
23 05 23 00-0264 EA 2-1/2" Threaded Or Sweated, 125 LB, Bronze Body, Globe Valve.....	420.90	37.64
For 150 LB Rating, Add	72.21	
For 200 LB Rating, Add	88.51	
For 250 LB Rating, Add	104.82	
For 300 LB Rating, Add	128.11	
For Work In Restricted Working Space, Add	56.39	
23 05 23 00-0265 EA 3" Globe Valve, Bronze, Threaded Or Soldered, 125 LB.....	738.76	43.70
For 150 LB Rating, Add	161.78	
For 200 LB Rating, Add	198.31	
For 250 LB Rating, Add	234.84	
For 300 LB Rating, Add	287.03	
For Work In Restricted Working Space, Add	65.07	
23 05 23 00-0266 Threaded, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valves (23 05 23 00-0253)		
23 05 23 00-0267 EA 2" Threaded, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve.....	545.13	27.87
For 150 LB Rating, Add	125.84	
For 200 LB Rating, Add	154.25	
For 250 LB Rating, Add	182.66	
For 300 LB Rating, Add	223.26	
For Chain Operated Type, Add	338.94	
For Work In Restricted Working Space, Add	41.76	
23 05 23 00-0268 EA 2-1/2" Threaded, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve.....	679.99	37.64
For 150 LB Rating, Add	152.53	
For 200 LB Rating, Add	186.97	
For 250 LB Rating, Add	221.41	
For 300 LB Rating, Add	270.61	
For Chain Operated Type, Add	410.84	
For Work In Restricted Working Space, Add	56.39	
23 05 23 00-0269 EA 3" Threaded, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve.....	807.31	43.70
For 150 LB Rating, Add	183.03	
For 200 LB Rating, Add	224.36	
For 250 LB Rating, Add	265.69	
For 300 LB Rating, Add	324.73	
For Chain Operated Type, Add	493.00	
For Work In Restricted Working Space, Add	65.07	
23 05 23 00-0270 EA 4" Threaded, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve.....	1,033.87	49.34
For 150 LB Rating, Add	244.04	
For 200 LB Rating, Add	299.15	
For 250 LB Rating, Add	354.25	
For 300 LB Rating, Add	432.98	
For Chain Operated Type, Add	657.34	
For Work In Restricted Working Space, Add	73.99	
23 05 23 00-0271 Flanged, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valves (23 05 23 00-0253)		
23 05 23 00-0272 EA 2" Flanged, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve.....	526.12	204.13
For 150 LB Rating, Add	83.98	
For 250 LB Rating, Add	121.91	
For Chain Operated Type, Add	135.45	
For Work In Restricted Working Space, Add	76.57	
23 05 23 00-0273 EA 2-1/2" Flanged, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve.....	586.57	204.42
For 150 LB Rating, Add	102.37	
For 250 LB Rating, Add	148.61	
For Chain Operated Type, Add	165.12	
For Work In Restricted Working Space, Add	76.90	
23 05 23 00-0274 EA 3" Flanged, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve.....	696.25	239.67
For 150 LB Rating, Add	122.85	
For 250 LB Rating, Add	178.33	
For Chain Operated Type, Add	198.15	
For Work In Restricted Working Space, Add	89.99	
23 05 23 00-0275 EA 4" Flanged, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve.....	1,031.88	401.80
For 150 LB Rating, Add	163.80	
For 250 LB Rating, Add	237.77	
For Chain Operated Type, Add	264.19	
For Work In Restricted Working Space, Add	151.05	
23 05 23 00-0276 EA 5" Flanged, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve.....	1,239.90	404.73
For 150 LB Rating, Add	227.78	
For 250 LB Rating, Add	330.65	
For Chain Operated Type, Add	367.39	
For Work In Restricted Working Space, Add	151.54	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0277 EA 6" Flanged, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve	1,492.93	449.69
For 150 LB Rating, Add	287.93	
For 250 LB Rating, Add	417.96	
For Chain Operated Type, Add	464.40	
For Work In Restricted Working Space, Add	169.24	
23 05 23 00-0278 EA 8" Flanged, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve	2,142.09	574.61
For 150 LB Rating, Add	442.77	
For 250 LB Rating, Add	642.73	
For Chain Operated Type, Add	714.15	
For Work In Restricted Working Space, Add	214.14	
23 05 23 00-0279 EA 10" Flanged, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve	3,049.85	699.52
For 150 LB Rating, Add	674.39	
For 250 LB Rating, Add	978.95	
For Chain Operated Type, Add	1,087.73	
For Work In Restricted Working Space, Add	262.32	
23 05 23 00-0280 EA 12" Flanged, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve	5,176.43	849.42
For 150 LB Rating, Add	1,276.13	
For 250 LB Rating, Add	1,852.45	
For Chain Operated Type, Add	2,058.28	
For Work In Restricted Working Space, Add	317.96	
23 05 23 00-0281 Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valves (23 05 23 00-0253)		
23 05 23 00-0282 EA 1/8" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve	76.98	15.31
For 150 LB Rating, Add	8.55	
For 200 LB Rating, Add	10.48	
For 300 LB Rating, Add	15.17	
For Work In Restricted Working Space, Add	14.82	
23 05 23 00-0283 EA 1/4" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve	72.17	15.31
For 150 LB Rating, Add	8.55	
For 200 LB Rating, Add	10.48	
For 300 LB Rating, Add	15.17	
For Work In Restricted Working Space, Add	13.38	
23 05 23 00-0284 EA 3/8" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve	74.51	15.31
For 150 LB Rating, Add	8.55	
For 200 LB Rating, Add	10.48	
For 300 LB Rating, Add	15.17	
For Work In Restricted Working Space, Add	14.08	
23 05 23 00-0285 EA 1/2" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve	78.82	15.31
For 150 LB Rating, Add	9.12	
For 200 LB Rating, Add	11.18	
For 300 LB Rating, Add	16.18	
For Work In Restricted Working Space, Add	14.82	
23 05 23 00-0286 EA 3/4" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve	107.36	16.08
For 150 LB Rating, Add	12.64	
For 200 LB Rating, Add	15.50	
For 300 LB Rating, Add	22.43	
For Work In Restricted Working Space, Add	19.97	
23 05 23 00-0287 EA 1" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve	134.13	16.08
For 150 LB Rating, Add	16.59	
For 200 LB Rating, Add	20.34	
For 300 LB Rating, Add	29.44	
For Work In Restricted Working Space, Add	24.18	
23 05 23 00-0288 EA 1-1/4" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve	181.61	20.37
For 150 LB Rating, Add	24.65	
For 200 LB Rating, Add	30.22	
For 300 LB Rating, Add	43.74	
For Work In Restricted Working Space, Add	30.63	
23 05 23 00-0289 EA 1-1/2" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve	210.50	23.58
For 150 LB Rating, Add	28.74	
For 200 LB Rating, Add	35.23	
For 300 LB Rating, Add	50.99	
For Work In Restricted Working Space, Add	35.34	
23 05 23 00-0290 EA 2" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve	278.85	27.87
For 150 LB Rating, Add	43.29	
For 200 LB Rating, Add	53.06	
For 300 LB Rating, Add	76.80	
For Work In Restricted Working Space, Add	41.76	
23 05 23 00-0291 EA 2-1/2" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve	456.07	40.88
For 150 LB Rating, Add	78.09	
For 200 LB Rating, Add	95.72	
For 300 LB Rating, Add	138.54	
For Work In Restricted Working Space, Add	61.25	
23 05 23 00-0292 EA 3" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve	662.17	47.47
For 150 LB Rating, Add	132.24	
For 200 LB Rating, Add	162.10	
For 300 LB Rating, Add	234.62	
For Work In Restricted Working Space, Add	70.68	
23 05 23 00-0293 Flanged, 125 LB, Iron Body, Angle Globe Valves (23 05 23 00-0253)		
23 05 23 00-0294 EA 2" Flanged, 125 LB, Iron Body, Angle Globe Valve	952.20	204.13
For 250 LB Rating, Add	418.19	
For Chain Operated Type, Add	271.82	
For Work In Restricted Working Space, Add	76.57	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 23 General-Duty Valves For HVAC Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0295 EA 2-1/2" Flanged, 125 LB, Iron Body, Angle Globe Valve <i>For 250 LB Rating, Add</i> <i>For Chain Operated Type, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,080.63 494.58 321.48 76.90	204.42
23 05 23 00-0296 EA 3" Flanged, 125 LB, Iron Body, Angle Globe Valve <i>For 250 LB Rating, Add</i> <i>For Chain Operated Type, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,271.33 582.82 378.83 89.99	239.67
23 05 23 00-0297 EA 4" Flanged, 125 LB, Iron Body, Angle Globe Valve <i>For 250 LB Rating, Add</i> <i>For Chain Operated Type, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,890.89 832.43 541.08 151.05	401.80
23 05 23 00-0298 EA 5" Flanged, 125 LB, Iron Body, Angle Globe Valve <i>For 250 LB Rating, Add</i> <i>For Chain Operated Type, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,991.59 1,491.88 969.72 151.54	404.73
23 05 23 00-0299 EA 6" Flanged, 125 LB, Iron Body, Angle Globe Valve <i>For 250 LB Rating, Add</i> <i>For Chain Operated Type, Add</i> <i>For Work In Restricted Working Space, Add</i>	3,050.60 1,491.88 969.72 169.24	449.69
23 05 23 00-0300 EA 8" Flanged, 125 LB, Iron Body, Angle Globe Valve <i>For 250 LB Rating, Add</i> <i>For Chain Operated Type, Add</i> <i>For Work In Restricted Working Space, Add</i>	5,580.32 2,919.91 1,897.94 214.14	574.61
23 05 23 00-0301 Class 800 Outside Stem And Yoke, Threaded, Chrome Trim, Bolted Bonnet, Forged Steel, Globe Valves (23 05 23 00-0253) Note: 800 PSIG at 850 degrees F.		
23 05 23 00-0302 EA 1/4" Class 800 Outside Stem And Yoke, Threaded, Chrome Trim, Bolted Bonnet, Forged Steel, Globe Valve <i>For Work In Restricted Working Space, Add</i>	221.00 13.38	24.81
23 05 23 00-0303 EA 1/2" Class 800 Outside Stem And Yoke, Threaded, Chrome Trim, Bolted Bonnet, Forged Steel, Globe Valve <i>For Work In Restricted Working Space, Add</i>	225.81 14.82	24.81
23 05 23 00-0304 EA 3/4" Class 800 Outside Stem And Yoke, Threaded, Chrome Trim, Bolted Bonnet, Forged Steel, Globe Valve <i>For Work In Restricted Working Space, Add</i>	267.26 19.97	33.38
23 05 23 00-0305 EA 1" Class 800 Outside Stem And Yoke, Threaded, Chrome Trim, Bolted Bonnet, Forged Steel, Globe Valve <i>For Work In Restricted Working Space, Add</i>	329.84 24.18	40.27
23 05 23 00-0306 EA 1-1/4" Class 800 Outside Stem And Yoke, Threaded, Chrome Trim, Bolted Bonnet, Forged Steel, Globe Valve <i>For Work In Restricted Working Space, Add</i>	529.36 30.63	50.99
23 05 23 00-0307 EA 1-1/2" Class 800 Outside Stem And Yoke, Threaded, Chrome Trim, Bolted Bonnet, Forged Steel, Globe Valve <i>For Work In Restricted Working Space, Add</i>	634.08 35.34	58.96
23 05 23 00-0308 EA 2" Class 800 Outside Stem And Yoke, Threaded, Chrome Trim, Bolted Bonnet, Forged Steel, Globe Valve <i>For Work In Restricted Working Space, Add</i>	804.40 41.76	69.67
23 05 23 00-0309 Triple Duty Valves (23 05 23) Note: Valves function as a shut-off, check valve and calibrated balancing valve.		
23 05 23 00-0310 Straight Pattern, Triple Duty Valves (23 05 23 00-0309) Note: Bell & Gossett 3DX and 3DS-S Series.		
23 05 23 00-0311 EA 1" Threaded, Straight Pattern, Triple Duty Valve	326.41	16.08
23 05 23 00-0312 EA 1-1/4" Threaded, Straight Pattern, Triple Duty Valve	380.33	20.37
23 05 23 00-0313 EA 1-1/2" Threaded, Straight Pattern, Triple Duty Valve	414.65	23.58
23 05 23 00-0314 EA 2" Flanged, Straight Pattern, Triple Duty Valve.....	1,062.40	204.13
23 05 23 00-0315 EA 2-1/2" Flanged, Straight Pattern, Triple Duty Valve	1,188.76	204.42
23 05 23 00-0316 EA 3" Flanged, Straight Pattern, Triple Duty Valve.....	1,306.61	239.67
23 05 23 00-0317 EA 4" Flanged, Straight Pattern, Triple Duty Valve.....	2,646.70	401.80
23 05 23 00-0318 EA 5" Flanged, Straight Pattern Triple Duty Valve.....	3,033.35	404.73
23 05 23 00-0319 EA 6" Flanged, Straight Pattern, Triple Duty Valve.....	4,015.52	449.69
23 05 23 00-0320 EA 8" Flanged, Straight Pattern, Triple Duty Valve.....	5,399.15	574.61
23 05 23 00-0321 EA 10" Flanged, Straight Pattern, Triple Duty Valve.....	8,612.19	699.52
23 05 23 00-0322 Flanged, Angle Pattern, Triple Duty Valves (23 05 23 00-0309) Note: Bell & Gossett 3D-S Series.		
23 05 23 00-0323 EA 2" Flanged, Angle Pattern, Triple Duty Valve.....	1,039.20	204.13
23 05 23 00-0324 EA 2-1/2" Flanged, Angle Pattern, Triple Duty Valve.....	1,160.93	204.42
23 05 23 00-0325 EA 3" Flanged, Angle Pattern, Triple Duty Valve.....	1,283.42	239.67
23 05 23 00-0326 EA 4" Flanged, Angle Pattern, Triple Duty Valve.....	2,586.39	401.80
23 05 23 00-0327 EA 5" Flanged, Angle Pattern, Triple Duty Valve.....	2,959.13	404.73
23 05 23 00-0328 EA 6" Flanged, Angle Pattern, Triple Duty Valve.....	3,319.67	449.69
23 05 23 00-0329 EA 8" Flanged, Angle Pattern, Triple Duty Valve.....	5,069.78	574.61
23 05 23 00-0330 EA 10" Flanged, Angle Pattern, Triple Duty Valve.....	6,761.24	699.52
23 05 23 00-0331 Balanced, Straight Pattern, Triple Duty Valves (23 05 23 00-0309) Note: Bell & Gossett 3DS-B Series.		
23 05 23 00-0332 EA 3" Flanged, Balanced, Straight Pattern, Triple Duty Valve.....	1,204.56	239.67
23 05 23 00-0333 EA 4" Flanged, Balanced, Straight Pattern, Triple Duty Valve.....	2,377.64	401.80
23 05 23 00-0334 EA 5" Flanged, Balanced, Straight Pattern, Triple Duty Valve.....	2,722.54	404.73
23 05 23 00-0335 EA 6" Flanged, Balanced, Straight Pattern, Triple Duty Valve.....	3,593.37	449.69
23 05 23 00-0336 EA 8" Flanged, Balanced, Straight Pattern, Triple Duty Valve.....	4,823.92	574.61
23 05 23 00-0337 EA 10" Flanged, Balanced, Straight Pattern, Triple Duty Valve.....	7,651.92	699.52



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0338 EA 12" Flanged, Balanced, Straight Pattern, Triple Duty Valve.....	11,470.00	849.42
23 05 23 00-0339 EA 14" Flanged, Balanced, Straight Pattern, Triple Duty Valve.....	13,933.81	999.31
23 05 23 00-0340 EA 16" Flanged, Balanced, Straight Pattern, Triple Duty Valve.....	17,421.16	1,099.25
23 05 23 00-0341 Grooved Straight Pattern, Triple Duty Valves <small>(23 05 23 00-0309)</small>		
<small>Note: Bell & Gossett 3DS-G Series.</small>		
23 05 23 00-0342 EA 2" Grooved, Straight Pattern, Triple Duty Valve.....	1,076.46	37.83
23 05 23 00-0343 EA 2-1/2" Grooved, Straight Pattern, Triple Duty Valve.....	1,283.51	45.11
23 05 23 00-0344 EA 3" Grooved, Straight Pattern, Triple Duty Valve.....	1,492.83	48.92
23 05 23 00-0345 EA 4" Grooved, Straight Pattern, Triple Duty Valve.....	2,468.71	52.72
23 05 23 00-0346 EA 5" Grooved, Straight Pattern, Triple Duty Valve.....	2,855.12	63.71
23 05 23 00-0347 EA 6" Grooved, Straight Pattern Triple Duty Valve.....	3,805.74	81.69
23 05 23 00-0348 EA 8" Grooved, Straight Pattern Triple Duty Valve.....	5,174.24	103.68
23 05 23 00-0349 EA 10" Grooved, Straight Pattern Triple Duty Valve.....	8,153.89	116.17
23 05 23 00-0350 EA 12" Grooved, Straight Pattern Triple Duty Valve.....	12,935.66	141.65
23 05 23 00-0351 Plug Valves <small>(23 05 23)</small>		
23 05 23 00-0352 Plug Valves, Lubricated, Semisteel Screwed, Wrench Operated <small>(23 05 23 00-0351)</small>		
<small>Note: Includes wrench.</small>		
23 05 23 00-0353 EA 1/2" Diameter Plug Valve, Semi-Steel, Screwed Lubricated, 200 PSI, Wrench Operated, With Wrench.....	307.44	15.31
23 05 23 00-0354 EA 3/4" Diameter Plug Valve, Semi-Steel, Screwed Lubricated, 200 PSI, Wrench Operated, With Wrench.....	324.61	16.85
23 05 23 00-0355 EA 1" Diameter Plug Valve, Semi-Steel, Screwed Lubricated, 200 PSI, Wrench Operated, With Wrench.....	409.73	19.14
23 05 23 00-0356 EA 1-1/4" Diameter Plug Valve, Semi-Steel, Screwed Lubricated, 200 PSI, Wrench Operated, With Wrench.....	491.78	20.37
23 05 23 00-0357 EA 1-1/2" Diameter Plug Valve, Semi-Steel, Screwed Lubricated, 200 PSI, Wrench Operated, With Wrench.....	541.71	23.58
23 05 23 00-0358 EA 2" Diameter Plug Valve, Semi-Steel, Screwed Lubricated, 200 PSI, Wrench Operated, With Wrench.....	639.48	27.87
23 05 23 00-0359 EA 2-1/2" Diameter Plug Valve, Semi-Steel, Screwed Lubricated, 200 PSI, Wrench Operated, With Wrench.....	954.18	37.64
23 05 23 00-0360 EA 3" Diameter Plug Valve, Semi-Steel, Screwed Lubricated, 200 PSI, Wrench Operated, With Wrench.....	1,164.78	43.70
23 05 23 00-0361 Plug Valves, Lubricated, Semisteel Flanged <small>(23 05 23 00-0351)</small>		
<small>Note: Wrench operated for 4", gear operated for 6" and 10".</small>		
23 05 23 00-0362 EA 2" Diameter Plug Valve, Semi-Steel, Flanged, 175 PSI, Wrench Operated, With Wrench.....	544.51	204.13
23 05 23 00-0363 EA 2-1/2" Diameter Plug Valve, Semi-Steel, Flanged, 175 PSI, Wrench Operated, With Wrench.....	637.39	204.42
23 05 23 00-0364 EA 3" Diameter Plug Valve, Semi-Steel, Flanged, 175 PSI, Wrench Operated, With Wrench.....	778.78	239.67
23 05 23 00-0365 EA 4" Diameter Plug Valve, Semi-Steel, Flanged, 175 PSI, Wrench Operated, With Wrench.....	1,151.90	401.80
23 05 23 00-0366 EA 6" Diameter Plug Valve, Semi-Steel, Flanged, 175 PSI, Wrench Operated, With Wrench.....	2,293.86	449.69
23 05 23 00-0367 EA 8" Diameter Plug Valve, Semi-Steel, Flanged, 175 PSI, Wrench Operated, With Wrench.....	3,830.11	574.61
23 05 23 00-0368 EA 10" Diameter Plug Valve, Semi-Steel, Flanged, 175 PSI, Wrench Operated, With Wrench.....	6,067.58	699.52
23 05 23 00-0369 EA 12" Diameter Plug Valve, Semi-Steel, Flanged, 175 PSI, Wrench Operated, With Wrench.....	8,942.42	849.42
23 05 23 00-0370 Plug Valves, Forged Steel, Screwed <small>(23 05 23 00-0351)</small>		
23 05 23 00-0371 EA 1/2" Plug Valve, 1,500 LB, Forged Steel, Screwed.....	1,153.12	15.31
23 05 23 00-0372 EA 3/4" Plug Valve, 1,500 LB, Forged Steel, Screwed.....	1,364.21	16.85
23 05 23 00-0373 EA 1" Plug Valve, 1,500 LB, Forged Steel, Screwed.....	1,543.44	19.14
23 05 23 00-0374 EA 1-1/4" Plug Valve, 1,500 LB, Forged Steel, Screwed.....	1,853.03	20.37
23 05 23 00-0375 EA 1-1/2" Plug Valve, 1,500 LB, Forged Steel, Screwed.....	2,157.63	23.58
23 05 23 00-0376 EA 2" Plug Valve, 1,500 LB, Forged Steel, Screwed.....	2,835.05	27.87
23 05 23 00-0377 Plug Valves, Eccentric, Cast Iron Flanged <small>(23 05 23 00-0351)</small>		
23 05 23 00-0378 EA 4" Diameter Plug Valve, Eccentric, Cast Iron, Flanged, 175 PSI.....	1,286.38	401.80
23 05 23 00-0379 EA 6" Diameter Plug Valve, Eccentric, Cast Iron, Flanged, 175 PSI.....	1,906.57	449.69
23 05 23 00-0380 EA 8" Diameter Plug Valve, Eccentric, Cast Iron, Flanged, 175 PSI.....	2,585.01	574.61
23 05 23 00-0381 EA 10" Diameter Plug Valve, Eccentric, Cast Iron, Flanged, 175 PSI.....	3,644.00	699.52
23 05 23 00-0382 EA 12" Diameter Plug Valve, Eccentric, Cast Iron, Flanged, 175 PSI.....	4,694.47	849.42
23 05 23 00-0383 Foot Valves <small>(23 05 23)</small>		
23 05 23 00-0384 Single Poppet Foot Valves, Metal To Metal Seat Construction <small>(23 05 23 00-0383)</small>		
23 05 23 00-0385 EA 1" Single Poppet Foot Valve, Metal To Metal Seat Construction.....	114.77	38.29
23 05 23 00-0386 EA 1-1/4" Single Poppet Foot Valve, Metal To Metal Seat Construction.....	130.08	42.89
23 05 23 00-0387 EA 1-1/2" Single Poppet Foot Valve, Metal To Metal Seat Construction.....	163.80	49.02
23 05 23 00-0388 EA 2" Single Poppet Foot Valve, Metal To Metal Seat Construction.....	211.87	55.14
23 05 23 00-0389 EA 2-1/2" Single Poppet Foot Valve, Metal To Metal Seat Construction.....	467.77	90.38
23 05 23 00-0390 EA 3" Single Poppet Foot Valve, Metal To Metal Seat Construction.....	595.52	110.28
23 05 23 00-0391 Double Poppet Foot Valves, Metal To Metal Seat Construction <small>(23 05 23 00-0383)</small>		
23 05 23 00-0392 EA 1" Double Poppet Foot Valve, Metal To Metal Seat Construction.....	114.77	38.29
23 05 23 00-0393 EA 1-1/4" Double Poppet Foot Valve, Metal To Metal Seat Construction.....	228.19	42.89
23 05 23 00-0394 EA 1-1/2" Double Poppet Foot Valve, Metal To Metal Seat Construction.....	220.40	49.02
23 05 23 00-0395 EA 2" Double Poppet Foot Valve, Metal To Metal Seat Construction.....	294.84	55.14
23 05 23 00-0396 EA 3" Double Poppet Foot Valve, Metal To Metal Seat Construction.....	570.65	90.38
23 05 23 00-0397 EA 4" Double Poppet Foot Valve, Metal To Metal Seat Construction.....	770.08	108.76

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 23 General-Duty Valves For HVAC Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0398 Float Valves <small>(23 05 23)</small>		
23 05 23 00-0399 Float Valve Assembly For Maintaining Liquid Level In Tanks <small>(23 05 23 00-0398)</small>		
23 05 23 00-0400 Single Seat, Bronze Construction <small>(23 05 23 00-0398)</small>		
Note: For storage tanks, reservoirs, cooling towers and filtration plants.		
23 05 23 00-0401 EA Inlet Size 1/2", Maximum PSI 100, Single Seat Float Valve	241.68	32.16
23 05 23 00-0402 EA Inlet Size 3/4", Maximum PSI 100, Single Seat Float Valve	277.67	38.28
23 05 23 00-0403 EA Inlet Size 1", Maximum PSI 100, Single Seat Float Valve	356.26	41.34
23 05 23 00-0404 EA Inlet Size 1-1/4", Maximum PSI 90, Single Seat Float Valve	587.20	52.06
23 05 23 00-0405 EA Inlet Size 1-1/2", Maximum PSI 90, Single Seat Float Valve	602.52	59.72
23 05 23 00-0406 Double Seat, Bronze Construction <small>(23 05 23 00-0398)</small>		
Note: For hot or cold water or oil to open tanks.		
23 05 23 00-0407 EA Pipe Size 1/2" Maximum PSI 150, Double Seat Float Valve	1,234.72	32.16
23 05 23 00-0408 EA Pipe Size 3/4" Maximum PSI 150, Double Seat Float Valve	1,246.98	38.28
23 05 23 00-0409 EA Pipe Size 1" Maximum PSI 150, Double Seat Float Valve	1,437.78	41.34
23 05 23 00-0410 EA Pipe Size 1-1/4" Maximum PSI 150, Double Seat Float Valve	1,592.21	52.06
23 05 23 00-0411 EA Pipe Size 1-1/2" Maximum PSI 150, Double Seat Float Valve	1,820.33	59.72
23 05 23 00-0412 EA Pipe Size 2" Maximum PSI 150, Double Seat Float Valve	2,384.42	70.44
23 05 23 00-0413 EA Pipe Size 2-1/2" Maximum PSI 150, Double Seat Float Valve	2,778.37	94.45
23 05 23 00-0414 EA Pipe Size 3" Maximum PSI 150, Double Seat Float Valve	3,339.98	108.55
23 05 23 00-0415 Float Valve Single Seated Balanced For Air Oil Or Water <small>(23 05 23 00-0398)</small>		
Note: Includes arm, ball and bracket.		
23 05 23 00-0416 Brass Body Threaded Ends <small>(23 05 23 00-0415)</small>		
23 05 23 00-0417 EA 1/2" Brass Body, Threaded Ends, Float Valve, Single Seated With Arm Ball And Bracket.....	266.76	41.50
23 05 23 00-0418 EA 3/4" Brass Body, Threaded Ends, Float Valve, Single Seated With Arm Ball And Bracket.....	301.08	46.09
23 05 23 00-0419 EA 1" Brass Body, Threaded Ends, Float Valve, Single Seated With Arm Ball And Bracket.....	368.80	50.99
23 05 23 00-0420 EA 1-1/4" Brass Body, Threaded Ends, Float Valve, Single Seated With Arm Ball And Bracket	590.07	82.39
23 05 23 00-0421 EA 1-1/2" Brass Body, Threaded Ends, Float Valve, Single Seated With Arm Ball And Bracket	623.13	93.87
23 05 23 00-0422 EA 2" Brass Body, Threaded Ends, Float Valve, Single Seated With Arm Ball And Bracket.....	708.70	116.38
23 05 23 00-0423 Cast Iron Body Flanged <small>(23 05 23 00-0415)</small>		
23 05 23 00-0424 EA 2-1/2" Cast Iron Body, Flanged, Float Valve, Single Seated With Arm Ball And Bracket.....	7,735.79	204.42
23 05 23 00-0425 EA 3" Cast Iron Body, Flanged, Float Valve, Single Seated With Arm Ball And Bracket.....	9,351.54	239.67
23 05 23 00-0426 Float Operated Valves <small>(23 05 23 00-0398)</small>		
23 05 23 00-0427 For Condensate Receivers Tanks And Vessels <small>(23 05 23 00-0426)</small>		
Note: Cast iron body, self-contained, float in-line mount.		
23 05 23 00-0428 EA 1" Inlet, Float Operated Valve, Single Seated With Arm Ball And Bracket.....	889.05	71.97
23 05 23 00-0429 For Condensate Receivers Tanks And Vessels <small>(23 05 23 00-0426)</small>		
Note: Cast iron body, external float tank mount, flanged.		
23 05 23 00-0430 EA 3/4" Inlet, Float Operated Valve, Single Seated With Arm Ball And Bracket.....	1,138.37	133.93
23 05 23 00-0431 Needle Valves <small>(23 05 23)</small>		
23 05 23 00-0432 Bronze Needle Valve <small>(23 05 23 00-0431)</small>		
Note: For heating and cooling applications.		
23 05 23 00-0433 EA 1/4" Needle Valve, Bronze	128.43	15.31
23 05 23 00-0434 EA 3/8" Needle Valve, Bronze	142.59	15.31
23 05 23 00-0435 EA 1/2" Needle Valve, Bronze	155.54	15.31
23 05 23 00-0436 EA 3/4" Needle Valve, Bronze	234.21	16.85
23 05 23 00-0437 EA 1" Needle Valve, Bronze	354.05	19.14
23 05 23 00-0438 Eccentric Valves With Taps <small>(23 05 23)</small>		
23 05 23 00-0439 Screwed Eccentric Valves With Taps <small>(23 05 23 00-0438)</small>		
23 05 23 00-0440 EA 1/2" Diameter Eccentric Valves With Taps, Screwed.....	512.17	15.31
23 05 23 00-0441 EA 3/4" Diameter Eccentric Valves With Taps, Screwed.....	536.46	16.85
23 05 23 00-0442 EA 1" Diameter Eccentric Valves With Taps, Screwed.....	678.65	19.14
23 05 23 00-0443 EA 1-1/4" Diameter Eccentric Valves With Taps, Screwed	821.17	20.37
23 05 23 00-0444 EA 1-1/2" Diameter Eccentric Valves With Taps, Screwed	893.83	23.58
23 05 23 00-0445 EA 2" Diameter Eccentric Valves With Taps, Screwed.....	1,050.52	27.87
23 05 23 00-0446 EA 2-1/2" Diameter Eccentric Valves With Taps, Screwed	1,597.65	37.64
23 05 23 00-0447 EA 3" Diameter Eccentric Valves With Taps, Screwed.....	1,946.95	43.70
23 05 23 00-0448 Flanged Eccentric Valves With Taps <small>(23 05 23 00-0438)</small>		
23 05 23 00-0449 EA 2-1/2" Diameter Eccentric Valves With Taps, Flanged	1,929.44	204.42
23 05 23 00-0450 EA 3" Diameter Eccentric Valves With Taps, Flanged.....	2,293.45	239.67
23 05 23 00-0451 EA 4" Diameter Eccentric Valves With Taps, Flanged.....	3,030.96	401.80



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0452 EA 5" Diameter Eccentric Valves With Taps, Flanged.....	4,064.92	404.73
23 05 23 00-0453 EA 6" Diameter Eccentric Valves With Taps, Flanged.....	5,191.87	449.69
23 05 23 00-0454 EA 8" Diameter Eccentric Valves With Taps, Flanged.....	9,079.33	574.61
23 05 23 00-0455 EA 10" Diameter Eccentric Valves With Taps, Flanged.....	12,799.73	699.52
23 05 23 00-0456 EA 12" Diameter Eccentric Valves With Taps, Flanged.....	22,240.69	849.42
23 05 23 00-0457 Check Valves (23 05 23)		
23 05 23 00-0458 Iron Body Wafer Type Check Valve (23 05 23 00-0457)		
23 05 23 00-0459 Single Disk Type (23 05 23 00-0458)		
23 05 23 00-0460 EA 2" Check Valve, Single Disc Type, Iron Body Wafer Type, 125 LB	538.80	204.19
For 150 LB Rating, Add	59.54	
For 200 LB Rating, Add	70.88	
For 300 LB Rating, Add	85.05	
For 300 LB Rating, Cast Steel, Weld End, Wedge, Add	178.64	
23 05 23 00-0461 EA 2-1/2" Check Valve, Single Disc Type, Iron Body Wafer Type, 125 LB	627.88	204.51
For 150 LB Rating, Add	78.00	
For 200 LB Rating, Add	92.86	
For 300 LB Rating, Add	111.43	
For 300 LB Rating, Cast Steel, Weld End, Wedge, Add	218.44	
23 05 23 00-0462 EA 3" Check Valve, Single Disc Type, Iron Body Wafer Type, 125 LB	769.59	239.77
For 150 LB Rating, Add	98.60	
For 200 LB Rating, Add	117.38	
For 300 LB Rating, Add	140.85	
For 300 LB Rating, Cast Steel, Weld End, Wedge, Add	271.29	
23 05 23 00-0463 EA 4" Check Valve, Single Disc Type, Iron Body Wafer Type, 125 LB	1,139.61	401.96
For 150 LB Rating, Add	133.54	
For 200 LB Rating, Add	158.98	
For 300 LB Rating, Add	190.77	
For 300 LB Rating, Cast Steel, Weld End, Wedge, Add	386.90	
23 05 23 00-0464 EA 6" Check Valve, Single Disc Type, Iron Body Wafer Type, 125 LB	1,701.24	564.16
For 150 LB Rating, Add	209.17	
For 200 LB Rating, Add	249.01	
For 300 LB Rating, Add	298.61	
For 300 LB Rating, Cast Steel, Weld End, Wedge, Add	589.26	
23 05 23 00-0465 EA 8" Check Valve, Single Disc Type, Iron Body Wafer Type, 125 LB	2,336.57	648.78
For 150 LB Rating, Add	320.99	
For 200 LB Rating, Add	382.14	
For 300 LB Rating, Add	458.56	
For 300 LB Rating, Cast Steel, Weld End, Wedge, Add	849.45	
23 05 23 00-0466 EA 10" Check Valve, Single Disc Type, Iron Body Wafer Type, 125 LB	3,435.88	789.81
For 150 LB Rating, Add	512.69	
For 200 LB Rating, Add	610.35	
For 300 LB Rating, Add	732.41	
For 300 LB Rating, Cast Steel, Weld End, Wedge, Add	1,297.52	
23 05 23 00-0467 Twin Disc Type (23 05 23 00-0458)		
23 05 23 00-0468 EA 2" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB	712.19	204.19
For 150 LB Rating, Add	95.95	
For 200 LB Rating, Add	114.22	
For 300 LB Rating, Add	137.07	
For 300 LB Rating, Cast Steel, Weld End, Wedge, Add	256.66	
23 05 23 00-0469 EA 2-1/2" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB	804.76	204.51
For 150 LB Rating, Add	115.15	
For 200 LB Rating, Add	137.08	
For 300 LB Rating, Add	164.50	
For 300 LB Rating, Cast Steel, Weld End, Wedge, Add	298.03	
23 05 23 00-0470 EA 3" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB	939.85	239.77
For 150 LB Rating, Add	134.35	
For 200 LB Rating, Add	159.94	
For 300 LB Rating, Add	191.93	
For 300 LB Rating, Cast Steel, Weld End, Wedge, Add	347.91	
23 05 23 00-0471 EA 4" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB	1,316.16	401.96
For 150 LB Rating, Add	170.61	
For 200 LB Rating, Add	203.11	
For 300 LB Rating, Add	243.74	
For 300 LB Rating, Cast Steel, Weld End, Wedge, Add	466.34	
23 05 23 00-0472 EA 6" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB	2,015.30	564.16
For 150 LB Rating, Add	275.12	
For 200 LB Rating, Add	327.53	
For 300 LB Rating, Add	393.03	
For 300 LB Rating, Cast Steel, Weld End, Wedge, Add	730.59	
23 05 23 00-0473 EA 8" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB	2,806.69	648.78
For 150 LB Rating, Add	420.16	
For 200 LB Rating, Add	500.19	
For 300 LB Rating, Add	600.23	
For 300 LB Rating, Cast Steel, Weld End, Wedge, Add	1,061.53	
23 05 23 00-0474 EA 10" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB	4,156.25	775.71
For 150 LB Rating, Add	665.40	
For 200 LB Rating, Add	792.15	
For 300 LB Rating, Add	950.57	
For 300 LB Rating, Cast Steel, Weld End, Wedge, Add	1,623.40	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 23 General-Duty Valves For HVAC Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0475 EA 12" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB.....	5,440.46	959.06
For 150 LB Rating, Add	891.49	
For 200 LB Rating, Add	1,061.30	
For 300 LB Rating, Add	1,273.56	
For 300 LB Rating, Cast Steel, Weld End, Wedge, Add	2,149.39	
23 05 23 00-0476 EA 14" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB.....	10,082.97	1,087.89
For 150 LB Rating, Add	1,812.82	
For 200 LB Rating, Add	2,158.12	
For 300 LB Rating, Add	2,589.74	
For 300 LB Rating, Cast Steel, Weld End, Wedge, Add	4,174.71	
23 05 23 00-0477 EA 16" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB.....	13,782.59	1,276.45
For 150 LB Rating, Add	2,559.27	
For 200 LB Rating, Add	3,046.76	
For 300 LB Rating, Add	3,656.11	
For 300 LB Rating, Cast Steel, Weld End, Wedge, Add	5,803.27	
23 05 23 00-0478 EA 18" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB.....	18,319.72	1,421.50
For 150 LB Rating, Add	3,474.84	
For 200 LB Rating, Add	4,136.72	
For 300 LB Rating, Add	4,964.06	
For 300 LB Rating, Cast Steel, Weld End, Wedge, Add	7,800.66	
23 05 23 00-0479 EA 20" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB.....	21,782.46	1,595.57
For 150 LB Rating, Add	4,155.48	
For 200 LB Rating, Add	4,947.00	
For 300 LB Rating, Add	5,936.40	
For 300 LB Rating, Cast Steel, Weld End, Wedge, Add	9,303.49	
23 05 23 00-0480 EA 24" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB.....	28,455.46	1,958.19
For 150 LB Rating, Add	5,460.16	
For 200 LB Rating, Add	6,500.19	
For 300 LB Rating, Add	7,800.23	
For 300 LB Rating, Cast Steel, Weld End, Wedge, Add	12,191.28	
23 05 23 00-0481 Lift Check Valves (23 05 23 00-0457)		
23 05 23 00-0482 Bronze Body, Threaded, Vertical Lift Check Valves (23 05 23 00-0481)		
Note: Watts #600 series.		
23 05 23 00-0483 EA 3/8" Lift Check Valve, Bronze, Threaded.....	132.39	15.31
23 05 23 00-0484 EA 1/2" Lift Check Valve, Bronze, Threaded.....	140.03	15.31
23 05 23 00-0485 EA 3/4" Lift Check Valve, Bronze, Threaded.....	179.45	16.08
23 05 23 00-0486 EA 1" Lift Check Valve, Bronze, Threaded.....	234.65	16.08
23 05 23 00-0487 EA 1-1/4" Lift Check Valve, Bronze, Threaded.....	322.90	20.37
23 05 23 00-0488 EA 1-1/2" Lift Check Valve, Bronze, Threaded.....	391.20	23.58
23 05 23 00-0489 EA 2" Lift Check Valve, Bronze, Threaded.....	550.30	27.87
23 05 23 00-0490 Bronze Body, Threaded, 300 LB, Lift Check Valves (23 05 23 00-0481)		
Note: Crane 366E.		
23 05 23 00-0491 EA 1/2" Lift Check Valve, Bronze, Threaded, 300 LB.....	759.26	15.31
23 05 23 00-0492 EA 3/4" Lift Check Valve, Bronze, Threaded, 300 LB.....	923.92	16.08
23 05 23 00-0493 EA 1" Lift Check Valve, Bronze, Threaded, 300 LB.....	1,647.85	16.08
23 05 23 00-0494 EA 1-1/4" Lift Check Valve, Bronze, Threaded, 300 LB.....	2,194.82	20.37
23 05 23 00-0495 EA 1-1/2" Lift Check Valve, Bronze, Threaded, 300 LB.....	2,385.70	23.58
23 05 23 00-0496 EA 2" Lift Check Valve, Bronze, Threaded, 300 LB.....	3,061.62	27.87
23 05 23 00-0497 Iron Body, Flanged, 125 LB Vertical Lift Check Valves (23 05 23 00-0481)		
Note: Mueller 105MAP.		
23 05 23 00-0498 EA 2" Lift Check Valve, Iron Body, Flanged, 125 LB.....	1,155.08	204.13
23 05 23 00-0499 EA 2-1/2" Lift Check Valve, Iron Body, Flanged, 125 LB.....	1,257.38	204.42
23 05 23 00-0500 EA 3" Lift Check Valve, Iron Body, Flanged, 125 LB.....	1,379.32	239.67
23 05 23 00-0501 EA 4" Lift Check Valve, Iron Body, Flanged, 125 LB.....	1,954.00	401.80
23 05 23 00-0502 EA 5" Lift Check Valve, Iron Body, Flanged, 125 LB.....	2,371.02	404.73
23 05 23 00-0503 EA 6" Lift Check Valve, Iron Body, Flanged, 125 LB.....	2,901.61	449.69
23 05 23 00-0504 EA 8" Lift Check Valve, Iron Body, Flanged, 125 LB.....	4,992.09	574.61
23 05 23 00-0505 EA 10" Lift Check Valve, Iron Body, Flanged, 125 LB.....	6,261.00	699.52
23 05 23 00-0506 EA 12" Lift Check Valve, Iron Body, Flanged, 125 LB.....	10,021.65	849.42
23 05 23 00-0507 EA 14" Lift Check Valve, Iron Body, Flanged, 125 LB.....	13,629.08	1,135.21
23 05 23 00-0508 EA 16" Lift Check Valve, Iron Body, Flanged, 125 LB.....	15,098.90	1,248.73
23 05 23 00-0509 Bronze Body Swing Check Valves (23 05 23 00-0457)		
23 05 23 00-0510 Bronze Body, Threaded, Brazed Or Soldered Installation, 125 LB, Swing Check Valves (23 05 23 00-0509)		
23 05 23 00-0511 EA 1/8" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB.....	94.27	15.31
For 300 LB Rating, Add	17.50	
For Work In Restricted Working Space, Add	14.82	
23 05 23 00-0512 EA 1/4" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB.....	89.46	15.31
For 300 LB Rating, Add	17.50	
For Work In Restricted Working Space, Add	13.38	
23 05 23 00-0513 EA 3/8" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB.....	91.80	15.31
For 300 LB Rating, Add	17.50	
For Work In Restricted Working Space, Add	14.08	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0514 EA 1/2" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	96.02 18.18 14.82	15.31
23 05 23 00-0515 EA 3/4" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	123.06 22.03 19.97	16.08
23 05 23 00-0516 EA 1" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	157.31 29.92 24.18	16.08
23 05 23 00-0517 EA 1-1/4" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	209.76 41.99 30.63	20.37
23 05 23 00-0518 EA 1-1/2" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	268.57 58.80 35.34	23.58
23 05 23 00-0519 EA 2" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	333.07 75.61 41.76	27.87
23 05 23 00-0520 EA 2-1/2" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	633.62 173.80 56.39	37.64
23 05 23 00-0521 EA 3" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	850.71 247.19 65.07	43.70
23 05 23 00-0522 EA 4" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	963.95 279.72 74.01	49.34
23 05 23 00-0523 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves <small>(23 05 23 00-0457)</small>		
23 05 23 00-0524 EA 1" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves <i>For 150 LB Rating, Add</i> <i>For 250 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	429.86 194.07 371.01 43.34	114.85
23 05 23 00-0525 EA 1-1/4" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves <i>For 150 LB Rating, Add</i> <i>For 250 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	480.86 213.81 408.75 49.93	133.99
23 05 23 00-0526 EA 1-1/2" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves <i>For 150 LB Rating, Add</i> <i>For 250 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	542.50 231.89 443.33 60.44	160.79
23 05 23 00-0527 EA 2" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves <i>For 150 LB Rating, Add</i> <i>For 250 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	678.76 288.01 550.60 76.57	204.13
23 05 23 00-0528 EA 2-1/2" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves <i>For 150 LB Rating, Add</i> <i>For 250 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	750.63 336.12 642.59 76.90	204.42
23 05 23 00-0529 EA 3" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves <i>For 150 LB Rating, Add</i> <i>For 250 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	837.11 365.26 698.30 89.99	239.67
23 05 23 00-0530 EA 4" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves <i>For 150 LB Rating, Add</i> <i>For 250 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,333.64 564.50 1,079.18 151.05	401.80
23 05 23 00-0531 EA 5" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves <i>For 150 LB Rating, Add</i> <i>For 250 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,723.92 828.78 1,584.44 151.54	404.73
23 05 23 00-0532 EA 6" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves <i>For 150 LB Rating, Add</i> <i>For 250 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,977.28 960.94 1,837.10 169.24	449.69
23 05 23 00-0533 EA 8" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves <i>For 150 LB Rating, Add</i> <i>For 250 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,241.92 2,399.12 4,586.56 214.14	574.61
23 05 23 00-0534 EA 10" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves <i>For 150 LB Rating, Add</i> <i>For 250 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	5,676.92 3,265.71 6,243.28 262.32	699.52
23 05 23 00-0535 EA 12" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves <i>For 150 LB Rating, Add</i> <i>For 250 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	8,549.18 5,092.72 9,736.09 317.96	849.42
23 05 23 00-0536 EA 14" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves <i>For 150 LB Rating, Add</i> <i>For 250 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	9,897.92 5,765.66 11,022.58 425.70	1,135.21
23 05 23 00-0537 EA 16" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves <i>For 150 LB Rating, Add</i> <i>For 250 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	13,910.38 8,397.64 16,054.31 468.27	1,248.73

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 23 General-Duty Valves For HVAC Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0538 EA 18" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves <i>For 150 LB Rating, Add</i> <i>For 250 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	21,141.09 13,198.73 25,232.87 519.36	1,384.96
23 05 23 00-0539 EA 20" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves <i>For 150 LB Rating, Add</i> <i>For 250 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	28,966.46 18,370.42 35,119.92 585.34	1,560.91
23 05 23 00-0540 EA 24" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves <i>For 150 LB Rating, Add</i> <i>For 250 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	40,214.34 25,717.44 49,165.69 718.37	1,915.67
23 05 23 00-0541 Class 800 Forged Steel, Screwed, Chrome Trim, Bolted Bonnet, Piston Check, Swing Check Valves (23 05 23 00-0457) Note: 800 PSIG at 850 Degrees F.		
23 05 23 00-0542 EA 1/2" Class 800, Threaded, Forged Steel Swing Check Valve <i>For Work In Restricted Working Space, Add</i>	204.77 14.82	15.31
23 05 23 00-0543 EA 3/4" 800, Threaded, Forged Steel Swing Check Valve <i>For Work In Restricted Working Space, Add</i>	242.98 19.97	16.85
23 05 23 00-0544 EA 1" Class 800, Threaded, Forged Steel Swing Check Valve <i>For Work In Restricted Working Space, Add</i>	287.76 24.18	19.14
23 05 23 00-0545 EA 1-1/4" Class 800, Threaded, Forged Steel Swing Check Valve <i>For Work In Restricted Working Space, Add</i>	440.89 30.63	20.37
23 05 23 00-0546 EA 1-1/2" 800, Threaded, Forged Steel Swing Check Valve <i>For Work In Restricted Working Space, Add</i>	522.41 35.34	23.58
23 05 23 00-0547 EA 2" Class 800, Threaded, Forged Steel Swing Check Valve <i>For Work In Restricted Working Space, Add</i>	702.44 41.76	27.87
23 05 23 00-0548 Plastic Check Valve (23 05 23 00-0457)		
23 05 23 00-0549 Polyvinyl Chloride (PVC) Check Valve (23 05 23 00-0548)		
23 05 23 00-0550 Polyvinyl Chloride (PVC) "Y" Check Valve (23 05 23 00-0549)		
23 05 23 00-0551 EA 1/2" Polyvinyl Chloride (PVC) "Y" Type Check Valve, Threaded Or Socket	107.42	15.31
23 05 23 00-0552 EA 3/4" Polyvinyl Chloride (PVC) "Y" Type Check Valve, Threaded Or Socket	128.87	16.85
23 05 23 00-0553 EA 1" Polyvinyl Chloride (PVC) "Y" Type Check Valve, Threaded Or Socket	148.98	19.14
23 05 23 00-0554 EA 1-1/4" Polyvinyl Chloride (PVC) "Y" Type Check Valve, Threaded Or Socket	209.58	20.37
23 05 23 00-0555 EA 1-1/2" Polyvinyl Chloride (PVC) "Y" Type Check Valve, Threaded Or Socket	234.24	23.58
23 05 23 00-0556 EA 2" Polyvinyl Chloride (PVC) "Y" Type Check Valve, Threaded Or Socket	401.64	25.66
23 05 23 00-0557 EA 2-1/2" Polyvinyl Chloride (PVC) "Y" Type Check Valve, Threaded Or Socket	475.61	37.64
23 05 23 00-0558 EA 3" Polyvinyl Chloride (PVC) "Y" Type Check Valve, Threaded Or Socket	523.44	43.70
23 05 23 00-0559 EA 4" Polyvinyl Chloride (PVC) "Y" Type Check Valve, Threaded Or Socket	748.33	49.34
23 05 23 00-0560 EA 3" Polyvinyl Chloride (PVC) "Y" Type Check Valve, Flanged	729.92	239.67
23 05 23 00-0561 Polyvinyl Chloride (PVC) True Union Ball Check Valve (23 05 23 00-0549)		
23 05 23 00-0562 Valves (23 05 23 00-0561)		
23 05 23 00-0563 EA 1/2" Polyvinyl Chloride (PVC) True Union Ball Check Valve	84.23	15.31
23 05 23 00-0564 EA 3/4" Polyvinyl Chloride (PVC) True Union Ball Check Valve	106.38	16.85
23 05 23 00-0565 EA 1" Polyvinyl Chloride (PVC) True Union Ball Check Valve	130.36	19.14
23 05 23 00-0566 EA 1-1/4" Polyvinyl Chloride (PVC) True Union Ball Check Valve	168.44	20.37
23 05 23 00-0567 EA 1-1/2" Polyvinyl Chloride (PVC) True Union Ball Check Valve	197.41	23.58
23 05 23 00-0568 EA 2" Polyvinyl Chloride (PVC) True Union Ball Check Valve	283.53	27.87
23 05 23 00-0569 EA 3" Polyvinyl Chloride (PVC) True Union Ball Check Valve	455.04	37.64
23 05 23 00-0570 EA 4" Polyvinyl Chloride (PVC) True Union Ball Check Valve	752.68	43.70
23 05 23 00-0571 Foot Valve Screen (23 05 23 00-0561) Note: For use with PVC true union ball check valves above.		
23 05 23 00-0572 EA 1/2" Foot Valve Screen Option	59.16	
23 05 23 00-0573 EA 3/4" Foot Valve Screen Option	70.74	
23 05 23 00-0574 EA 1" Foot Valve Screen Option	81.97	
23 05 23 00-0575 EA 1-1/4" Foot Valve Screen Option	123.75	
23 05 23 00-0576 EA 1-1/2" Foot Valve Screen Option	136.92	
23 05 23 00-0577 EA 2" Foot Valve Screen Option	148.15	
23 05 23 00-0578 EA 2-1/2" Foot Valve Screen Option	176.76	
23 05 23 00-0579 EA 3" Foot Valve Screen Option	205.38	
23 05 23 00-0580 EA 4" Foot Valve Screen Option	249.26	
23 05 23 00-0581 Hayward "True Check" With VITON Seals (23 05 23 00-0561)		
23 05 23 00-0582 EA 1/4" Polyvinyl Chloride (PVC) True Union Ball Check Valve, Socket Or Threaded	76.11	15.31
23 05 23 00-0583 EA 3/8" Polyvinyl Chloride (PVC) True Union Ball Check Valve, Socket Or Threaded	78.45	15.31
23 05 23 00-0584 EA 1/2" Polyvinyl Chloride (PVC) True Union Ball Check Valve, Socket Or Threaded	85.06	15.31
23 05 23 00-0585 EA 3/4" Polyvinyl Chloride (PVC) True Union Ball Check Valve, Socket Or Threaded	106.30	16.85
23 05 23 00-0586 EA 1" Polyvinyl Chloride (PVC) True Union Ball Check Valve, Socket Or Threaded	131.53	19.14
23 05 23 00-0587 EA 1-1/4" Polyvinyl Chloride (PVC) True Union Ball Check Valve, Socket Or Threaded	168.36	20.37
23 05 23 00-0588 EA 1-1/2" Polyvinyl Chloride (PVC) True Union Ball Check Valve, Socket Or Threaded	202.39	23.58



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0589 EA 2" Polyvinyl Chloride (PVC) True Union Ball Check Valve, Socket Or Threaded	252.01	27.87
23 05 23 00-0590 EA 2-1/2" Polyvinyl Chloride (PVC) True Union Ball Check Valve, Socket Or Threaded	450.06	37.64
23 05 23 00-0591 EA 3" Polyvinyl Chloride (PVC) True Union Ball Check Valve, Socket Or Threaded	495.57	43.70
23 05 23 00-0592 EA 4" Polyvinyl Chloride (PVC) True Union Ball Check Valve, Socket Or Threaded	761.77	49.34
23 05 23 00-0593 Hayward "True Check" With Ethylene Propylene Diene Monomer (EPDM)		
Seals (23 05 23 00-0561)		
23 05 23 00-0594 EA 1/2" Polyvinyl Chloride (PVC) True Union Ball Check Valve, Socket Or Threaded	80.92	15.31
23 05 23 00-0595 EA 3/4" Polyvinyl Chloride (PVC) True Union Ball Check Valve, Socket Or Threaded	102.23	16.85
23 05 23 00-0596 EA 1" Polyvinyl Chloride (PVC) True Union Ball Check Valve, Socket Or Threaded	125.89	19.14
23 05 23 00-0597 EA 1-1/4" Polyvinyl Chloride (PVC) True Union Ball Check Valve, Socket Or Threaded	162.22	20.37
23 05 23 00-0598 EA 1-1/2" Polyvinyl Chloride (PVC) True Union Ball Check Valve, Socket Or Threaded	191.11	23.58
23 05 23 00-0599 EA 2" Polyvinyl Chloride (PVC) True Union Ball Check Valve, Socket Or Threaded	242.06	27.87
23 05 23 00-0600 EA 2-1/2" Polyvinyl Chloride (PVC) True Union Ball Check Valve, Socket Or Threaded	435.13	37.64
23 05 23 00-0601 EA 3" Polyvinyl Chloride (PVC) True Union Ball Check Valve, Socket Or Threaded	483.13	43.70
23 05 23 00-0602 EA 4" Polyvinyl Chloride (PVC) True Union Ball Check Valve, Socket Or Threaded	742.69	49.34
23 05 23 00-0603 Polyvinyl Chloride (PVC) Check Valve, Ethylene Propylene Diene Monomer (EPDM) Housing, Flanged (23 05 23 00-0549)		
23 05 23 00-0604 EA 1" Thermoplastic Check Valve, Polyvinyl Chloride (PVC) With Ethylene Propylene Diene Monomer (EPDM) Housing	373.68	91.88
23 05 23 00-0605 EA 1-1/4" Thermoplastic Check Valve, Polyvinyl Chloride (PVC) With Ethylene Propylene Diene Monomer (EPDM) Housing	408.54	107.20
23 05 23 00-0606 EA 1-1/2" Thermoplastic Check Valve, Polyvinyl Chloride (PVC) With Ethylene Propylene Diene Monomer (EPDM) Housing	452.47	133.99
23 05 23 00-0607 EA 2" Thermoplastic Check Valve, Polyvinyl Chloride (PVC) With Ethylene Propylene Diene Monomer (EPDM) Housing	553.78	168.44
23 05 23 00-0608 EA 2-1/2" Thermoplastic Check Valve, Polyvinyl Chloride (PVC) With Ethylene Propylene Diene Monomer (EPDM) Housing	657.83	169.25
23 05 23 00-0609 EA 3" Thermoplastic Check Valve, Polyvinyl Chloride (PVC) With Ethylene Propylene Diene Monomer (EPDM) Housing	889.64	197.46
23 05 23 00-0610 EA 4" Thermoplastic Check Valve, Polyvinyl Chloride (PVC) With Ethylene Propylene Diene Monomer (EPDM) Housing	1,244.47	334.97
23 05 23 00-0611 EA 6" Thermoplastic Check Valve, Polyvinyl Chloride (PVC) With Ethylene Propylene Diene Monomer (EPDM) Housing	2,050.06	564.16
23 05 23 00-0612 Swing Check Valves, 150 LB Polyvinyl Chloride (PVC) Socket Weld End Connections (23 05 23 00-0548)		
23 05 23 00-0613 EA 1/2" Check Valve, Duplex Polyvinyl Chloride (PVC), Socket Weld, 150 LB.....	102.26	15.31
For Work In Restricted Working Space, Add	14.82	
23 05 23 00-0614 EA 3/4" Check Valve, Duplex Polyvinyl Chloride (PVC), Socket Weld, 150 LB.....	119.43	16.85
For Work In Restricted Working Space, Add	19.97	
23 05 23 00-0615 EA 1" Check Valve, Duplex Polyvinyl Chloride (PVC), Socket Weld, 150 LB.....	135.54	19.14
For Work In Restricted Working Space, Add	24.18	
23 05 23 00-0616 EA 1-1/4" Check Valve, Duplex Polyvinyl Chloride (PVC), Socket Weld, 150 LB.....	159.30	20.37
For Work In Restricted Working Space, Add	30.63	
23 05 23 00-0617 EA 1-1/2" Check Valve, Duplex Polyvinyl Chloride (PVC), Socket Weld, 150 LB.....	178.31	23.58
For Work In Restricted Working Space, Add	35.34	
23 05 23 00-0618 EA 2" Check Valve, Duplex Polyvinyl Chloride (PVC), Socket Weld, 150 LB.....	233.31	27.87
For Work In Restricted Working Space, Add	41.76	
23 05 23 00-0619 EA 2-1/2" Check Valve, Duplex Polyvinyl Chloride (PVC), Socket Weld, 150 LB.....	321.94	37.64
For Work In Restricted Working Space, Add	56.39	
23 05 23 00-0620 EA 3" Check Valve, Duplex Polyvinyl Chloride (PVC), Socket Weld, 150 LB.....	390.73	43.70
For Work In Restricted Working Space, Add	65.07	
23 05 23 00-0621 Polyvinyl Chloride (PVC) Body, Swing Check Valves (23 05 23 00-0548)		
23 05 23 00-0622 Polyvinyl Chloride (PVC) Body, Swing Check Valves With Ethylene Propylene Diene Monomer (EPDM) Seals (23 05 23 00-0621)		
23 05 23 00-0623 EA 3" Polyvinyl Chloride (PVC) Swing Check Valve, With Ethylene Propylene Diene Monomer (EPDM) Seals	714.57	197.37
For Work In Restricted Working Space, Add	75.53	
23 05 23 00-0624 EA 4" Polyvinyl Chloride (PVC) Swing Check Valve, With Ethylene Propylene Diene Monomer (EPDM) Seals	932.20	334.83
For Work In Restricted Working Space, Add	124.40	
23 05 23 00-0625 EA 6" Polyvinyl Chloride (PVC) Swing Check Valve, With Ethylene Propylene Diene Monomer (EPDM) Seals	1,425.04	374.74
For Work In Restricted Working Space, Add	154.31	
23 05 23 00-0626 EA 8" Polyvinyl Chloride (PVC) Swing Check Valve, With Ethylene Propylene Diene Monomer (EPDM) Seals	1,884.77	474.68
For Work In Restricted Working Space, Add	174.88	
23 05 23 00-0627 Polyvinyl Chloride (PVC) Body, Swing Check Valves With Viton Seals (23 05 23 00-0621)		
23 05 23 00-0628 EA 3" Polyvinyl Chloride (PVC) Swing Check Valve, With Viton Seals	834.00	197.37
For Work In Restricted Working Space, Add	75.53	
23 05 23 00-0629 EA 4" Polyvinyl Chloride (PVC) Swing Check Valve, With Viton Seals	1,195.94	334.83
For Work In Restricted Working Space, Add	124.40	
23 05 23 00-0630 EA 6" Polyvinyl Chloride (PVC) Swing Check Valve, With Viton Seals	1,674.86	374.74
For Work In Restricted Working Space, Add	154.31	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 23 General-Duty Valves For HVAC Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0631 EA 8" Polyvinyl Chloride (PVC) Swing Check Valve, With Viton Seals <i>For Work In Restricted Working Space, Add</i>	2,183.35 174.88	474.68
23 05 23 00-0632 Polyvinyl Chloride (PVC) Body, Swing Check Valves With Ethylene Propylene Diene Monomer (EPDM) Seals And Counter Weights <small>(23 05 23 00-0621)</small>		
23 05 23 00-0633 EA 3" Polyvinyl Chloride (PVC) Swing Check Valve, With Ethylene Propylene Diene Monomer (EPDM) Seals And Counter weights <i>For Work In Restricted Working Space, Add</i>	865.52 75.53	197.37
23 05 23 00-0634 EA 4" Polyvinyl Chloride (PVC) Swing Check Valve, With Ethylene Propylene Diene Monomer (EPDM) Seals And Counter weights <i>For Work In Restricted Working Space, Add</i>	1,198.43 124.40	334.83
23 05 23 00-0635 EA 6" Polyvinyl Chloride (PVC) Swing Check Valve, With Ethylene Propylene Diene Monomer (EPDM) Seals And Counter weights <i>For Work In Restricted Working Space, Add</i>	1,564.38 154.31	374.74
23 05 23 00-0636 EA 8" Polyvinyl Chloride (PVC) Swing Check Valve, With Ethylene Propylene Diene Monomer (EPDM) Seals And Counter weights <i>For Work In Restricted Working Space, Add</i>	1,999.56 174.88	474.68
23 05 23 00-0637 Polyvinyl Chloride (PVC) Body, Swing Check Valves With Viton Seals And Counter Weights <small>(23 05 23 00-0621)</small>		
23 05 23 00-0638 EA 3" Polyvinyl Chloride (PVC) Swing Check Valve, With Viton Seals And Counter Weights <i>For Work In Restricted Working Space, Add</i>	965.04 75.53	197.37
23 05 23 00-0639 EA 4" Polyvinyl Chloride (PVC) Swing Check Valve, With Viton Seals And Counter Weights <i>For Work In Restricted Working Space, Add</i>	1,343.58 124.40	334.83
23 05 23 00-0640 EA 6" Polyvinyl Chloride (PVC) Swing Check Valve, With Viton Seals And Counter Weights <i>For Work In Restricted Working Space, Add</i>	1,771.73 154.31	374.74
23 05 23 00-0641 EA 8" Polyvinyl Chloride (PVC) Swing Check Valve, With Viton Seals And Counter Weights <i>For Work In Restricted Working Space, Add</i>	2,248.38 174.88	474.68
23 05 23 00-0642 Diaphragm Valves <small>(23 05 23)</small>		
23 05 23 00-0643 Polytetrafluoroethylene (PTFE) Or Viton Lined, Threaded Cast Iron Diaphragm Valves <small>(23 05 23 00-0642)</small>		
23 05 23 00-0644 EA 1/2" Diaphragm Valve, Cast Iron, 150 LB, Threaded, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated	307.24	45.81
23 05 23 00-0645 EA 3/4" Diaphragm Valve, Cast Iron, 150 LB, Threaded, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated	390.96	50.75
23 05 23 00-0646 EA 1" Diaphragm Valve, Cast Iron, 150 LB, Threaded, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated	426.72	62.74
23 05 23 00-0647 EA 1-1/2" Diaphragm Valve, Cast Iron, 150 LB, Threaded, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated	675.43	93.75
23 05 23 00-0648 EA 2" Diaphragm Valve, Cast Iron, 150 LB, Threaded, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated	1,073.53	112.79
23 05 23 00-0649 Polytetrafluoroethylene (PTFE) Or Viton Lined, Flanged Cast Iron Diaphragm Valves <small>(23 05 23 00-0642)</small>		
23 05 23 00-0650 EA 1/2" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated	307.80	73.50
23 05 23 00-0651 EA 3/4" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated	355.70	76.57
23 05 23 00-0652 EA 1" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated	426.58	114.85
23 05 23 00-0653 EA 1-1/2" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated	640.29	160.79
23 05 23 00-0654 EA 2" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated	998.54	204.13
23 05 23 00-0655 EA 2-1/2" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated	1,253.79	204.42
23 05 23 00-0656 EA 3" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated	1,551.52	239.67
23 05 23 00-0657 EA 4" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated	2,221.59	401.80
23 05 23 00-0658 EA 6" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated	4,413.27	449.69
23 05 23 00-0659 EA 8" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated	6,817.60	574.61
23 05 23 00-0660 Ethylene Propylene Diene Monomer (EPDM) Lined, Threaded Cast Iron Diaphragm Valves <small>(23 05 23 00-0642)</small>		
23 05 23 00-0661 EA 1/2" Diaphragm Valve, Cast Iron, 150 LB, Threaded, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated	194.97	45.81
23 05 23 00-0662 EA 3/4" Diaphragm Valve, Cast Iron, 150 LB, Threaded, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated	252.08	50.75
23 05 23 00-0663 EA 1" Diaphragm Valve, Cast Iron, 150 LB, Threaded, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated	287.84	62.74
23 05 23 00-0664 EA 1-1/2" Diaphragm Valve, Cast Iron, 150 LB, Threaded, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated	486.31	93.75



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0665 EA 2" Diaphragm Valve, Cast Iron, 150 LB, Threaded, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated	633.26	112.79
23 05 23 00-0666 Ethylene Propylene Diene Monomer (EPDM) Lined, Flanged Cast Iron Diaphragm Valves <small>(23 05 23 00-0642)</small>		
23 05 23 00-0667 EA 1/2" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated	215.02	73.50
23 05 23 00-0668 EA 3/4" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated	250.50	76.57
23 05 23 00-0669 EA 1" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated	321.35	114.85
23 05 23 00-0670 EA 1-1/2" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated	497.02	160.79
23 05 23 00-0671 EA 2" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated	664.94	204.13
23 05 23 00-0672 EA 2-1/2" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated	790.51	204.42
23 05 23 00-0673 EA 3" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated	958.21	239.67
23 05 23 00-0674 EA 4" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated	1,522.21	401.80
23 05 23 00-0675 EA 6" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated	2,846.42	449.69
23 05 23 00-0676 EA 8" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated	4,332.44	574.61
23 05 23 00-0677 125 LB, Hand Wheel Operated, Flanged Cast Iron Diaphragm Valves <small>(23 05 23 00-0642)</small>		
23 05 23 00-0678 EA 1" Diaphragm Valve, Cast Iron, 125 LB, Flanged	394.88	114.85
23 05 23 00-0679 EA 1-1/2" Diaphragm Valve, Cast Iron, 125 LB, Flanged	628.65	160.79
23 05 23 00-0680 EA 2" Diaphragm Valve, Cast Iron, 125 LB, Flanged	840.73	204.13
23 05 23 00-0681 EA 2-1/2" Diaphragm Valve, Cast Iron, 125 LB, Flanged	1,169.57	204.42
23 05 23 00-0682 EA 3" Diaphragm Valve, Cast Iron, 125 LB, Flanged	1,297.89	239.67
23 05 23 00-0683 EA 4" Diaphragm Valve, Cast Iron, 125 LB, Flanged	2,046.44	401.80
23 05 23 00-0684 EA 6" Diaphragm Valve, Cast Iron, 125 LB, Flanged	3,915.13	449.69
23 05 23 00-0685 EA 8" Diaphragm Valve, Cast Iron, 125 LB, Flanged	8,012.31	574.61
23 05 23 00-0686 Solenoid Valves <small>(23 05 23)</small>		
23 05 23 00-0687 Bronze Body Solenoid Valves, 150 PSI Maximum Water Pressure <small>(23 05 23 00-0686)</small>		
23 05 23 00-0688 EA 1/4" Solenoid Valve, Bronze, 150 PSI, Water	142.43	15.31
23 05 23 00-0689 EA 1/2" Solenoid Valve, Bronze, 150 PSI, Water	164.76	15.31
23 05 23 00-0690 EA 3/4" Solenoid Valve, Bronze, 150 PSI, Water	211.64	16.85
23 05 23 00-0691 EA 1" Solenoid Valve, Bronze, 150 PSI, Water	307.82	19.14
23 05 23 00-0692 EA 1-1/2" Solenoid Valve, Bronze, 150 PSI, Water	537.27	23.58
23 05 23 00-0693 EA 2" Solenoid Valve, Bronze, 150 PSI, Water	830.81	27.87
23 05 23 00-0694 EA 2-1/2" Solenoid Valve, Bronze, 150 PSI, Water	1,131.20	37.64
23 05 23 00-0695 EA 3" Solenoid Valve, Bronze, 150 PSI, Water	1,628.09	43.70
23 05 23 00-0696 Flow Control Valves And Meters <small>(23 05 23)</small>		
23 05 23 00-0697 Conditioned Water Balancing Valves <small>(23 05 23 00-0696)</small>		
Note: Working pressures up to 300 PSIG. Iron and bronze body construction (combination balancing, flow measuring and shut-off). Excludes portable read-out meter.		
23 05 23 00-0698 EA 1/2" NPT Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG	191.86	78.12
23 05 23 00-0699 EA 3/4" NPT Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG	233.08	104.16
23 05 23 00-0700 EA 1" NPT Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG	1,392.18	119.02
23 05 23 00-0701 EA 1-1/4" NPT Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG	1,503.74	147.05
23 05 23 00-0702 EA 1-1/2" NPT Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG	1,609.79	156.24
23 05 23 00-0703 EA 2" NPT Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG	1,724.92	178.61
23 05 23 00-0704 EA 2-1/2" NPT Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG	3,063.01	310.85
23 05 23 00-0705 EA 3" NPT Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG	2,967.46	355.28
23 05 23 00-0706 EA 3" Flanged Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG	1,928.71	239.77
23 05 23 00-0707 EA 4" Flanged Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG	2,719.57	401.96
23 05 23 00-0708 EA 6" Flanged Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG	4,169.56	507.74
23 05 23 00-0709 EA 8" Flanged Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG	5,599.44	648.78
23 05 23 00-0710 EA 10" Flanged Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG	7,917.35	789.81
23 05 23 00-0711 Read Out Meters <small>(23 05 23 00-0696)</small>		
Note: For use with conditioned portable water balancing valves.		
23 05 23 00-0712 EA 0.5 - 25% Accuracy Read Out Meter For Use With Portable Water Balancing Valve	1,285.23	
23 05 23 00-0713 EA 0.5 - 50% Accuracy Read Out Meter For Use With Portable Water Balancing Valve	1,739.29	
23 05 23 00-0714 EA 0.5 - 75% Accuracy Read Out Meter For Use With Portable Water Balancing Valve	1,739.29	
23 05 23 00-0715 EA 0.5 - 100% Accuracy Read Out Meter For Use With Portable Water Balancing Valve	1,739.29	
23 05 23 00-0716 Balancing Valves <small>(23 05 23)</small>		

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 23 General-Duty Valves For HVAC Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0717	Balancing Valves With Lever <small>(23 05 23 00-0716)</small>	
Note: DeZurik PEC eccentric, non-lubricated plug valves, cast iron high temperature faced plug, nickel seats, buna vee packing, bronze bearings with integral gage taps and schrader fittings for metering connections.		
23 05 23 00-0718 EA 1/2" Threaded Balancing Valve With Lever	282.47	48.25
23 05 23 00-0719 EA 3/4" Threaded Balancing Valve With Lever	319.18	63.57
23 05 23 00-0720 EA 1" Threaded Balancing Valve With Lever	595.84	72.76
23 05 23 00-0721 EA 1-1/4" Threaded Balancing Valve With Lever	647.77	90.38
23 05 23 00-0722 EA 1-1/2" Threaded Balancing Valve With Lever	680.89	95.73
23 05 23 00-0723 EA 2" Threaded Balancing Valve With Lever	831.64	109.52
23 05 23 00-0724 EA 2-1/2" Flanged Balancing Valve With Lever	1,105.66	204.51
23 05 23 00-0725 EA 3" Flanged Balancing Valve With Lever	1,121.31	239.77
23 05 23 00-0726 EA 4" Flanged Balancing Valve With Lever	1,436.92	401.96
23 05 23 00-0727 EA 5" Flanged Balancing Valve With Lever	4,028.39	456.96
23 05 23 00-0728 EA 6" Flanged Balancing Valve With Lever	2,083.43	507.74
23 05 23 00-0729 EA 8" Flanged Balancing Valve With Lever	2,745.98	648.78
23 05 23 00-0730	Balancing Valves With Nut <small>(23 05 23 00-0716)</small>	
Note: DeZurik PEC eccentric, non-lubricated plug valves, cast iron high temperature faced plug, nickel seats, buna vee packing, bronze bearings with integral gage taps and schrader fittings for metering connections.		
23 05 23 00-0731 EA 4" Flanged Balancing Valve With Nut	1,436.92	401.96
23 05 23 00-0732 EA 5" Flanged Balancing Valve With Nut	4,028.39	456.96
23 05 23 00-0733 EA 6" Flanged Balancing Valve With Nut	2,083.43	507.74
23 05 23 00-0734 EA 8" Flanged Balancing Valve With Nut	2,745.98	648.78
23 05 23 00-0735	Balancing Valves With Hand Wheel <small>(23 05 23 00-0716)</small>	
Note: DeZurik PEC eccentric, non-lubricated plug valves, cast iron high temperature faced plug, nickel seats, buna vee packing, bronze bearings with integral gage taps and schrader fittings for metering connections.		
23 05 23 00-0736 EA 4" Flanged Balancing Valve With Hand Wheel	1,908.71	401.96
23 05 23 00-0737 EA 5" Flanged Balancing Valve With Hand Wheel	4,527.14	456.96
23 05 23 00-0738 EA 6" Flanged Balancing Valve With Hand Wheel	2,583.21	507.74
23 05 23 00-0739 EA 8" Flanged Balancing Valve With Hand Wheel	3,632.53	648.78
23 05 23 00-0740 EA 10" Flanged Balancing Valve With Hand Wheel	5,521.63	789.81
23 05 23 00-0741 EA 12" Flanged Balancing Valve With Hand Wheel	7,179.47	615.45
23 05 23 00-0742 EA 14" Flanged Balancing Valve With Hand Wheel	9,349.61	1,160.41
23 05 23 00-0743	Balancing Valves With Chain Wheel <small>(23 05 23 00-0716)</small>	
Note: DeZurik PEC eccentric, non-lubricated plug valves, cast iron high temperature faced plug, nickel seats, buna vee packing, bronze bearings with integral gage taps and schrader fittings for metering connections.		
23 05 23 00-0744 EA 4" Flanged Balancing Valve With Chain Wheel	2,179.34	401.96
23 05 23 00-0745 EA 5" Flanged Balancing Valve With Chain Wheel	4,793.62	456.96
23 05 23 00-0746 EA 6" Flanged Balancing Valve With Chain Wheel	2,848.66	507.74
23 05 23 00-0747 EA 8" Flanged Balancing Valve With Chain Wheel	3,959.15	648.78
23 05 23 00-0748 EA 10" Flanged Balancing Valve With Chain Wheel	5,838.93	789.81
23 05 23 00-0749 EA 12" Flanged Balancing Valve With Chain Wheel	7,771.92	615.02
23 05 23 00-0750 EA 14" Flanged Balancing Valve With Chain Wheel	9,885.69	1,160.41
23 05 23 00-0751	Calibrated Balancing Valves <small>(23 05 23 00-0716)</small>	
Note: Bell & Gossett CB Series.		
23 05 23 00-0752 EA 1/2" Brazed Or Soldered Calibrated Balancing Valve (CB-1/2S)	145.36	15.31
23 05 23 00-0753 EA 3/4" Brazed Or Soldered Calibrated Balancing Valve (CB-3/4S)	172.16	16.85
23 05 23 00-0754 EA 1" Brazed Or Soldered Calibrated Balancing Valve (CB-1S)	210.15	19.14
23 05 23 00-0755 EA 1-1/4" Brazed Or Soldered Calibrated Balancing Valve (CB-1-1/4S)	282.03	20.37
23 05 23 00-0756 EA 1" Threaded Calibrated Balancing Valve (CB-1)	223.35	19.14
23 05 23 00-0757 EA 1-1/4" Threaded Calibrated Balancing Valve (CB-1-1/4)	304.81	20.37
23 05 23 00-0758 EA 1-1/2" Threaded Calibrated Balancing Valve (CB-1-1/2)	354.11	23.59
23 05 23 00-0759 EA 2" Threaded Calibrated Balancing Valve (CB-2)	475.08	27.88
23 05 23 00-0760 EA 2-1/2" Threaded Calibrated Balancing Valve (CB-2-1/2)	875.84	40.89
23 05 23 00-0761 EA 3" Threaded Calibrated Balancing Valve (CB-3)	1,225.08	47.48
23 05 23 00-0762 EA 2-1/2" Flanged Calibrated Balancing Valve (CB-2-1/2F)	1,166.05	222.11
23 05 23 00-0763 EA 3" Flanged Calibrated Balancing Valve (CB-3F)	1,675.21	260.40
23 05 23 00-0764 EA 4" Flanged Calibrated Balancing Valve (CB-4F)	2,627.98	436.55
23 05 23 00-0765 EA 5" Flanged Calibrated Balancing Valve (CB-5F)	3,755.79	496.30
23 05 23 00-0766 EA 6" Flanged Calibrated Balancing Valve (CB-6F)	4,919.57	551.44
23 05 23 00-0767 EA 8" Flanged Calibrated Balancing Valve (CB-8F)	8,821.17	704.62
23 05 23 00-0768 EA 10" Flanged Calibrated Balancing Valve (CB-10F)	12,226.45	812.29
23 05 23 00-0769 EA 12" Flanged Calibrated Balancing Valve (CB-12F)	25,540.04	986.35
23 05 23 00-0770 EA 4" Grooved Calibrated Balancing Valve (CB-4G)	3,018.12	52.72
23 05 23 00-0771 EA 5" Grooved Calibrated Balancing Valve (CB-5G)	3,477.18	63.71
23 05 23 00-0772 EA 6" Grooved Calibrated Balancing Valve (CB-6G)	4,620.07	81.69
23 05 23 00-0773 EA 8" Grooved Calibrated Balancing Valve (CB-8G)	8,634.48	103.68
23 05 23 00-0774 EA 10" Grooved Calibrated Balancing Valve (CB-10G)	11,600.94	116.17
23 05 23 00-0775 EA 12" Grooved Calibrated Balancing Valve (CB-12G)	23,859.76	141.65
23 05 23 00-0776	Butterfly Valves <small>(23 05 23)</small>	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0777 Cast Iron Body, Iron Disc, 150 PSI, Wafer Type, Butterfly Valves <small>(23 05 23 00-0776)</small>						
Note: With on-off handle						
	23 05 23	00-0778	EA	2" Butterfly Valve, Cast Iron, With Iron Disc, On Off Handle, 150 PSI Wafer Type.....	419.93	204.13
				<i>For 200 PSI, Add</i>	79.06	
				<i>For 175 PSI, Add</i>	28.82	
				<i>For Work In Restricted Working Space, Add</i>	76.57	
	23 05 23	00-0779	EA	2-1/2" Butterfly Valve, Cast Iron, With Iron Disc, On Off Handle, 150 PSI Wafer Type	430.62	204.42
				<i>For 200 PSI, Add</i>	83.66	
				<i>For 175 PSI, Add</i>	30.50	
				<i>For Work In Restricted Working Space, Add</i>	76.90	
	23 05 23	00-0780	EA	3" Butterfly Valve, Cast Iron, With Iron Disc, On Off Handle, 150 PSI Wafer Type.....	487.66	239.67
				<i>For 200 PSI, Add</i>	90.10	
				<i>For 175 PSI, Add</i>	32.85	
				<i>For Work In Restricted Working Space, Add</i>	89.99	
	23 05 23	00-0781	EA	4" Butterfly Valve, Cast Iron, With Iron Disc, On Off Handle, 150 PSI Wafer Type.....	739.08	401.80
				<i>For 200 PSI, Add</i>	113.08	
				<i>For 175 PSI, Add</i>	41.23	
				<i>For Work In Restricted Working Space, Add</i>	151.05	
	23 05 23	00-0782	EA	5" Butterfly Valve, Cast Iron, With Iron Disc, On Off Handle, 150 PSI Wafer Type.....	899.30	449.69
				<i>For 200 PSI, Add</i>	160.88	
				<i>For 175 PSI, Add</i>	58.65	
				<i>For Work In Restricted Working Space, Add</i>	169.24	
	23 05 23	00-0783	EA	6" Butterfly Valve, Cast Iron, With Iron Disc, On Off Handle, 150 PSI Wafer Type.....	1,034.45	499.66
				<i>For 200 PSI, Add</i>	196.74	
				<i>For 175 PSI, Add</i>	71.73	
				<i>For Work In Restricted Working Space, Add</i>	187.37	
	23 05 23	00-0784	EA	8" Butterfly Valve, Cast Iron, With Iron Disc, On Off Handle, 150 PSI Wafer Type.....	1,330.52	574.61
				<i>For 200 PSI, Add</i>	296.03	
				<i>For 175 PSI, Add</i>	107.93	
				<i>For Work In Restricted Working Space, Add</i>	214.14	
	23 05 23	00-0785	EA	10" Butterfly Valve, Cast Iron, With Iron Disc, On Off Handle, 150 PSI Wafer Type.....	2,069.53	699.52
				<i>For 200 PSI, Add</i>	573.66	
				<i>For 175 PSI, Add</i>	209.15	
				<i>For Work In Restricted Working Space, Add</i>	262.32	
	23 05 23	00-0786	EA	12" Butterfly Valve, Cast Iron, With Iron Disc, On Off Handle, 150 PSI Wafer Type.....	2,582.52	849.42
				<i>For 200 PSI, Add</i>	730.87	
				<i>For 175 PSI, Add</i>	266.46	
				<i>For Work In Restricted Working Space, Add</i>	317.96	
23 05 23 00-0787 Cast Iron Body, Bronze Disc, Gear Operated, 200 LB, Lug Type, Butterfly Valves <small>(23 05 23 00-0776)</small>						
	23 05 23	00-0788	EA	2" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 200 PSI	707.22	204.13
				<i>For Work In Restricted Working Space, Add</i>	76.57	
	23 05 23	00-0789	EA	2-1/2" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 200 PSI.....	712.16	204.42
				<i>For Work In Restricted Working Space, Add</i>	76.90	
	23 05 23	00-0790	EA	3" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 200 PSI	778.78	239.67
				<i>For Work In Restricted Working Space, Add</i>	89.99	
	23 05 23	00-0791	EA	4" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 200 PSI	1,043.61	401.80
				<i>For Work In Restricted Working Space, Add</i>	151.05	
	23 05 23	00-0792	EA	5" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 200 PSI	1,236.39	449.69
				<i>For Work In Restricted Working Space, Add</i>	169.24	
	23 05 23	00-0793	EA	6" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 200 PSI	1,369.51	499.66
				<i>For Work In Restricted Working Space, Add</i>	187.37	
	23 05 23	00-0794	EA	8" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 200 PSI	1,679.10	574.61
				<i>For Work In Restricted Working Space, Add</i>	214.14	
	23 05 23	00-0795	EA	10" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 200 PSI.....	2,121.24	699.52
				<i>For Work In Restricted Working Space, Add</i>	262.32	
	23 05 23	00-0796	EA	12" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 200 PSI.....	2,871.73	849.42
				<i>For Work In Restricted Working Space, Add</i>	317.96	
23 05 23 00-0797 Cast Iron Body, Bronze Disc, Gear Operated, 150 LB, Lug Type, Butterfly Valves <small>(23 05 23 00-0776)</small>						
	23 05 23	00-0798	EA	14" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 150 PSI.....	4,653.37	1,064.26
				<i>For 200 PSI, Add</i>	1,164.37	
				<i>For 175 PSI, Add</i>	404.30	
				<i>For Work In Restricted Working Space, Add</i>	425.70	
	23 05 23	00-0799	EA	16" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 150 PSI.....	5,906.23	1,248.73
				<i>For 200 PSI, Add</i>	1,564.32	
				<i>For 175 PSI, Add</i>	543.17	
				<i>For Work In Restricted Working Space, Add</i>	468.27	
	23 05 23	00-0800	EA	18" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 150 PSI.....	8,190.40	1,390.63
				<i>For 200 PSI, Add</i>	2,324.18	
				<i>For 175 PSI, Add</i>	807.01	
				<i>For Work In Restricted Working Space, Add</i>	520.30	
	23 05 23	00-0801	EA	20" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 150 PSI.....	10,490.06	1,560.91
				<i>For 200 PSI, Add</i>	3,074.01	
				<i>For 175 PSI, Add</i>	1,067.37	
				<i>For Work In Restricted Working Space, Add</i>	585.34	
	23 05 23	00-0802	EA	24" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 150 PSI.....	14,060.63	1,915.67
				<i>For 200 PSI, Add</i>	4,197.32	
				<i>For 175 PSI, Add</i>	1,457.40	
				<i>For Work In Restricted Working Space, Add</i>	720.42	

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 05 Common Work Results for HVAC

23 05 23 General-Duty Valves For HVAC Piping



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0803	EA		30" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 150 PSI	28,924.09	3,061.64
			<i>For 200 PSI, Add</i>	9,009.89	
			<i>For 175 PSI, Add</i>	3,128.43	
			<i>For Work In Restricted Working Space, Add</i>	1,168.99	
23 05 23 00-0804	EA		36" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 150 PSI	36,669.84	4,174.96
			<i>For 200 PSI, Add</i>	11,447.66	
			<i>For 175 PSI, Add</i>	3,974.88	
			<i>For Work In Restricted Working Space, Add</i>	1,461.23	
23 05 23 00-0805	EA		42" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 150 PSI	44,607.03	6,123.27
			<i>For 200 PSI, Add</i>	13,360.87	
			<i>For 175 PSI, Add</i>	4,639.19	
			<i>For Work In Restricted Working Space, Add</i>	2,248.05	
23 05 23 00-0806	EA		48" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 150 PSI	54,261.68	7,654.09
			<i>For 200 PSI, Add</i>	16,027.24	
			<i>For 175 PSI, Add</i>	5,565.01	
			<i>For Work In Restricted Working Space, Add</i>	2,922.47	
23 05 23 00-0807	EA		54" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 150 PSI	65,565.17	9,184.91
			<i>For 200 PSI, Add</i>	19,219.76	
			<i>For 175 PSI, Add</i>	6,673.53	
			<i>For Work In Restricted Working Space, Add</i>	3,653.09	

23 05 23 00-0808 Bronze Body, Stainless Steel Disc, Slow Close Butterfly Valves, 175 LB (23 05 23 00-0776)

Note: (Milwaukee Valve Company BB-SC 100)

23 05 23 00-0809	EA		1" Butterfly Valve, Bronze Body, Stainless Steel Disc, Slow Close, 175 LB	538.18	19.14
			<i>For Work In Restricted Working Space, Add</i>	24.18	
23 05 23 00-0810	EA		1-1/4" Butterfly Valve, Bronze Body, Stainless Steel Disc, Slow Close, 175 LB	588.60	20.37
			<i>For Work In Restricted Working Space, Add</i>	30.63	
23 05 23 00-0811	EA		1-1/2" Butterfly Valve, Bronze Body, Stainless Steel Disc, Slow Close, 175 LB	736.55	23.58
			<i>For Work In Restricted Working Space, Add</i>	35.34	
23 05 23 00-0812	EA		2" Butterfly Valve, Bronze Body, Stainless Steel Disc, Slow Close, 175 LB	922.20	27.87
			<i>For Work In Restricted Working Space, Add</i>	41.76	
23 05 23 00-0813	EA		2-1/2" Butterfly Valve, Bronze Body, Stainless Steel Disc, Slow Close, 175 LB	1,237.77	37.64
			<i>For Work In Restricted Working Space, Add</i>	56.39	

23 05 23 00-0814 Bronze Body, Stainless Steel Disc, Slow Close Butterfly Valves, With Tamper Switch, 175 LB (23 05 23 00-0776)

Note: (Milwaukee Valve Company BB-S02)

23 05 23 00-0815	EA		1" Butterfly Valve, Bronze Body, Stainless Steel Disc, Slow Close With Tamper Switch, 175 LB	804.58	19.14
			<i>For Work In Restricted Working Space, Add</i>	24.18	
23 05 23 00-0816	EA		1-1/4" Butterfly Valve, Bronze Body, Stainless Steel Disc, Slow Close With Tamper Switch, 175 LB	872.13	20.37
			<i>For Work In Restricted Working Space, Add</i>	30.63	
23 05 23 00-0817	EA		1-1/2" Butterfly Valve, Bronze Body, Stainless Steel Disc, Slow Close With Tamper Switch, 175 LB	1,042.72	23.58
			<i>For Work In Restricted Working Space, Add</i>	35.34	
23 05 23 00-0818	EA		2" Butterfly Valve, Bronze Body, Stainless Steel Disc, Slow Close With Tamper Switch, 175 LB	1,248.31	27.87
			<i>For Work In Restricted Working Space, Add</i>	41.76	
23 05 23 00-0819	EA		2-1/2" Butterfly Valve, Bronze Body, Stainless Steel Disc, Slow Close With Tamper Switch, 175 LB	1,598.39	37.64
			<i>For Work In Restricted Working Space, Add</i>	56.39	

23 05 29 Hangers and Supports for HVAC Piping and Equipment (23 05)

23 05 29 00-0001 Hangers And Supports (23 05 29)

23 05 29 00-0002 Clevis Hangers (23 05 29 00-0001)

23 05 29 00-0003 Steel Clevis Hanger (Cooper B-Line B3100) (23 05 29 00-0002)

Note: Type 1.

23 05 29 00-0004	EA		1/2" Steel Clevis Hanger (Cooper B-Line B3100)	27.28	12.69
			<i>For Work In Restricted Working Space, Add</i>	7.61	
23 05 29 00-0005	EA		3/4" Steel Clevis Hanger (Cooper B-Line B3100)	30.10	14.10
			<i>For Work In Restricted Working Space, Add</i>	8.46	
23 05 29 00-0006	EA		1" Steel Clevis Hanger (Cooper B-Line B3100)	31.66	14.10
			<i>For Work In Restricted Working Space, Add</i>	8.90	
23 05 29 00-0007	EA		1-1/4" Steel Clevis Hanger (Cooper B-Line B3100)	32.77	15.25
			<i>For Work In Restricted Working Space, Add</i>	9.15	
23 05 29 00-0008	EA		1-1/2" Steel Clevis Hanger (Cooper B-Line B3100)	33.02	15.25
			<i>For Work In Restricted Working Space, Add</i>	9.15	
23 05 29 00-0009	EA		2" Steel Clevis Hanger (Cooper B-Line B3100)	34.34	15.51
			<i>For Work In Restricted Working Space, Add</i>	9.40	
23 05 29 00-0010	EA		2-1/2" Steel Clevis Hanger (Cooper B-Line B3100)	37.12	16.07
			<i>For Work In Restricted Working Space, Add</i>	9.67	
23 05 29 00-0011	EA		3" Steel Clevis Hanger (Cooper B-Line B3100)	39.31	16.91
			<i>For Work In Restricted Working Space, Add</i>	9.95	
23 05 29 00-0012	EA		3-1/4" Steel Clevis Hanger (Cooper B-Line B3100)	41.27	18.58
			<i>For Work In Restricted Working Space, Add</i>	10.62	
23 05 29 00-0013	EA		4" Steel Clevis Hanger (Cooper B-Line B3100)	44.99	19.74
			<i>For Work In Restricted Working Space, Add</i>	11.28	
23 05 29 00-0014	EA		5" Steel Clevis Hanger (Cooper B-Line B3100)	57.46	23.61
			<i>For Work In Restricted Working Space, Add</i>	14.17	
23 05 29 00-0015	EA		6" Steel Clevis Hanger (Cooper B-Line B3100)	69.02	28.20
			<i>For Work In Restricted Working Space, Add</i>	16.92	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0016 EA 8" Steel Clevis Hanger (Cooper B-Line B3100).....	91.41	35.25
<i>For Work In Restricted Working Space, Add</i>	21.15	
23 05 29 00-0017 EA 10" Steel Clevis Hanger (Cooper B-Line B3100).....	131.28	47.94
<i>For Work In Restricted Working Space, Add</i>	28.20	
23 05 29 00-0018 EA 12" Steel Clevis Hanger (Cooper B-Line B3100).....	152.71	52.86
<i>For Work In Restricted Working Space, Add</i>	31.72	
23 05 29 00-0019 EA 14" Steel Clevis Hanger (Cooper B-Line B3100).....	187.41	59.21
<i>For Work In Restricted Working Space, Add</i>	36.37	
23 05 29 00-0020 EA 16" Steel Clevis Hanger (Cooper B-Line B3100).....	230.80	70.49
<i>For Work In Restricted Working Space, Add</i>	42.29	
23 05 29 00-0021 EA 18" Steel Clevis Hanger (Cooper B-Line B3100).....	287.79	88.11
<i>For Work In Restricted Working Space, Add</i>	52.87	
23 05 29 00-0022 EA 20" Steel Clevis Hanger (Cooper B-Line B3100).....	445.90	105.74
<i>For Work In Restricted Working Space, Add</i>	63.44	
23 05 29 00-0023 EA 24" Steel Clevis Hanger (Cooper B-Line B3100).....	660.81	123.35
<i>For Work In Restricted Working Space, Add</i>	74.02	
23 05 29 00-0024 Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C) (23 05 29 00-0002)		
23 05 29 00-0025 EA 1/2" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C).....	32.34	12.69
<i>For Work In Restricted Working Space, Add</i>	7.61	
23 05 29 00-0026 EA 3/4" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C).....	35.16	14.10
<i>For Work In Restricted Working Space, Add</i>	8.46	
23 05 29 00-0027 EA 1" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C).....	36.82	14.10
<i>For Work In Restricted Working Space, Add</i>	8.90	
23 05 29 00-0028 EA 1-1/4" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C).....	38.05	15.25
<i>For Work In Restricted Working Space, Add</i>	9.15	
23 05 29 00-0029 EA 1-1/2" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C).....	38.69	15.25
<i>For Work In Restricted Working Space, Add</i>	9.15	
23 05 29 00-0030 EA 2" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C).....	39.69	15.51
<i>For Work In Restricted Working Space, Add</i>	9.40	
23 05 29 00-0031 EA 2-1/2" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C).....	43.65	16.07
<i>For Work In Restricted Working Space, Add</i>	9.67	
23 05 29 00-0032 EA 3" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C).....	45.62	16.91
<i>For Work In Restricted Working Space, Add</i>	9.95	
23 05 29 00-0033 EA 3-1/2" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C).....	51.27	19.74
<i>For Work In Restricted Working Space, Add</i>	11.28	
23 05 29 00-0034 EA 4" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C).....	55.54	19.74
<i>For Work In Restricted Working Space, Add</i>	11.28	
23 05 29 00-0035 EA 5" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C).....	87.20	23.61
<i>For Work In Restricted Working Space, Add</i>	14.17	
23 05 29 00-0036 EA 6" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C).....	107.49	28.20
<i>For Work In Restricted Working Space, Add</i>	16.92	
23 05 29 00-0037 EA 8" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C).....	128.91	35.25
<i>For Work In Restricted Working Space, Add</i>	21.15	
23 05 29 00-0038 Steel Clevis Hanger, Light Duty (Cooper B-Line B3104) (23 05 29 00-0002)		
23 05 29 00-0039 EA 1/2" Steel Clevis Hanger, Light Duty (Cooper B-Line B3104).....	27.10	12.69
<i>For Work In Restricted Working Space, Add</i>	7.61	
23 05 29 00-0040 EA 3/4" Steel Clevis Hanger, Light Duty (Cooper B-Line B3104).....	29.96	14.10
<i>For Work In Restricted Working Space, Add</i>	8.46	
23 05 29 00-0041 EA 1" Steel Clevis Hanger, Light Duty (Cooper B-Line B3104).....	31.62	14.10
<i>For Work In Restricted Working Space, Add</i>	8.90	
23 05 29 00-0042 EA 1-1/4" Steel Clevis Hanger, Light Duty (Cooper B-Line B3104).....	32.49	15.25
<i>For Work In Restricted Working Space, Add</i>	9.15	
23 05 29 00-0043 EA 1-1/2" Steel Clevis Hanger, Light Duty (Cooper B-Line B3104).....	32.63	15.25
<i>For Work In Restricted Working Space, Add</i>	9.15	
23 05 29 00-0044 EA 2" Steel Clevis Hanger, Light Duty (Cooper B-Line B3104).....	33.55	15.51
<i>For Work In Restricted Working Space, Add</i>	9.40	
23 05 29 00-0045 EA 2-1/2" Steel Clevis Hanger, Light Duty (Cooper B-Line B3104).....	36.08	16.07
<i>For Work In Restricted Working Space, Add</i>	9.67	
23 05 29 00-0046 EA 3" Steel Clevis Hanger, Light Duty (Cooper B-Line B3104).....	37.55	16.91
<i>For Work In Restricted Working Space, Add</i>	9.95	
23 05 29 00-0047 EA 3-1/2" Steel Clevis Hanger, Light Duty (Cooper B-Line B3104).....	42.38	19.74
<i>For Work In Restricted Working Space, Add</i>	11.28	
23 05 29 00-0048 EA 4" Steel Clevis Hanger, Light Duty (Cooper B-Line B3104).....	43.38	19.74
<i>For Work In Restricted Working Space, Add</i>	11.28	
23 05 29 00-0049 Extended Steel Clevis Hanger (Cooper B-Line B3108) (23 05 29 00-0002)		
23 05 29 00-0050 EA 3/4" Steel Extended Clevis Hanger (Cooper B-Line B3108).....	36.28	14.10
<i>For Work In Restricted Working Space, Add</i>	8.46	
23 05 29 00-0051 EA 1" Steel Extended Clevis Hanger (Cooper B-Line B3108).....	37.83	14.10
<i>For Work In Restricted Working Space, Add</i>	8.90	
23 05 29 00-0052 EA 1-1/4" Steel Extended Clevis Hanger (Cooper B-Line B3108).....	38.66	15.25
<i>For Work In Restricted Working Space, Add</i>	9.15	
23 05 29 00-0053 EA 1-1/2" Steel Extended Clevis Hanger (Cooper B-Line B3108).....	39.66	15.25
<i>For Work In Restricted Working Space, Add</i>	9.15	
23 05 29 00-0054 EA 2" Steel Extended Clevis Hanger (Cooper B-Line B3108).....	42.17	15.51
<i>For Work In Restricted Working Space, Add</i>	9.40	
23 05 29 00-0055 EA 2-1/2" Steel Extended Clevis Hanger (Cooper B-Line B3108).....	44.84	16.07
<i>For Work In Restricted Working Space, Add</i>	9.67	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 29 Hangers and Supports for HVAC Piping and Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0056 EA 3" Steel Extended Clevis Hanger (Cooper B-Line B3108).....	46.88	16.91
For Work In Restricted Working Space, Add	9.95	
23 05 29 00-0057 EA 4" Steel Extended Clevis Hanger (Cooper B-Line B3108).....	55.68	19.74
For Work In Restricted Working Space, Add	11.28	
23 05 29 00-0058 EA 5" Steel Extended Clevis Hanger (Cooper B-Line B3108).....	70.20	23.61
For Work In Restricted Working Space, Add	14.17	
23 05 29 00-0059 EA 6" Steel Extended Clevis Hanger (Cooper B-Line B3108).....	86.10	28.20
For Work In Restricted Working Space, Add	16.92	
23 05 29 00-0060 EA 8" Steel Extended Clevis Hanger (Cooper B-Line B3108).....	119.43	35.25
For Work In Restricted Working Space, Add	21.15	
23 05 29 00-0061 EA 10" Steel Extended Clevis Hanger (Cooper B-Line B3108).....	166.37	47.94
For Work In Restricted Working Space, Add	28.20	
23 05 29 00-0062 EA 12" Steel Extended Clevis Hanger (Cooper B-Line B3108).....	186.91	52.86
For Work In Restricted Working Space, Add	31.72	
23 05 29 00-0063 Steel Clevis Hanger, Flat Top (Cooper B-Line B3109) (23 05 29 00-0002)		
23 05 29 00-0064 EA 2" Steel Clevis Hanger, Flat Top (Cooper B-Line B3109).....	43.35	15.51
For Work In Restricted Working Space, Add	9.40	
23 05 29 00-0065 EA 2-1/2" Steel Clevis Hanger, Flat Top (Cooper B-Line B3109).....	45.95	16.07
For Work In Restricted Working Space, Add	9.67	
23 05 29 00-0066 EA 3" Steel Clevis Hanger, Flat Top (Cooper B-Line B3109).....	48.14	16.91
For Work In Restricted Working Space, Add	9.95	
23 05 29 00-0067 EA 3-1/2" Steel Clevis Hanger, Flat Top (Cooper B-Line B3109).....	53.53	19.74
For Work In Restricted Working Space, Add	11.28	
23 05 29 00-0068 EA 4" Steel Clevis Hanger, Flat Top (Cooper B-Line B3109).....	56.04	19.74
For Work In Restricted Working Space, Add	11.28	
23 05 29 00-0069 EA 5" Steel Clevis Hanger, Flat Top (Cooper B-Line B3109).....	69.73	23.61
For Work In Restricted Working Space, Add	14.17	
23 05 29 00-0070 EA 6" Steel Clevis Hanger, Flat Top (Cooper B-Line B3109).....	81.72	28.20
For Work In Restricted Working Space, Add	16.92	
23 05 29 00-0071 EA 8" Steel Clevis Hanger, Flat Top (Cooper B-Line B3109).....	107.31	35.25
For Work In Restricted Working Space, Add	21.15	
23 05 29 00-0072 Adjustable Hangers (23 05 29 00-0001)		
23 05 29 00-0073 Steel J-Hanger Hanger With Bolt (Cooper B-Line B3690) (23 05 29 00-0072)		
Note: Type 5.		
23 05 29 00-0074 EA 1/2" Steel J-Hanger Hanger With Bolt (Cooper B-Line B3690).....	24.70	11.14
For Work In Restricted Working Space, Add	6.68	
23 05 29 00-0075 EA 3/4" Steel J-Hanger Hanger With Bolt (Cooper B-Line B3690).....	27.15	12.35
For Work In Restricted Working Space, Add	7.41	
23 05 29 00-0076 EA 1" Steel J-Hanger Hanger With Bolt (Cooper B-Line B3690).....	29.87	13.73
For Work In Restricted Working Space, Add	8.24	
23 05 29 00-0077 EA 1-1/4" Steel J-Hanger Hanger With Bolt (Cooper B-Line B3690).....	33.01	15.25
For Work In Restricted Working Space, Add	9.15	
23 05 29 00-0078 EA 1-1/2" Steel J-Hanger Hanger With Bolt (Cooper B-Line B3690).....	34.69	16.01
For Work In Restricted Working Space, Add	9.61	
23 05 29 00-0079 EA 2" Steel J-Hanger Hanger With Bolt (Cooper B-Line B3690).....	36.96	16.78
For Work In Restricted Working Space, Add	10.07	
23 05 29 00-0080 EA 2-1/2" Steel J-Hanger Hanger With Bolt (Cooper B-Line B3690).....	41.61	17.54
For Work In Restricted Working Space, Add	10.52	
23 05 29 00-0081 EA 3" Steel J-Hanger Hanger With Bolt (Cooper B-Line B3690).....	43.46	18.30
For Work In Restricted Working Space, Add	10.98	
23 05 29 00-0082 EA 4" Steel J-Hanger Hanger With Bolt (Cooper B-Line B3690).....	51.16	20.59
For Work In Restricted Working Space, Add	12.35	
23 05 29 00-0083 Adjustable Swivel Steel Ring (Cooper B-Line B3170) (23 05 29 00-0072)		
Note: Type 10.		
23 05 29 00-0084 EA 1/2" Adjustable Swivel Steel Ring (Cooper B-Line B3170).....	29.32	14.10
For Work In Restricted Working Space, Add	8.46	
For 304 Stainless Steel, Add	7.39	
For 316 Stainless Steel, Add	9.52	
23 05 29 00-0085 EA 3/4" Adjustable Swivel Steel Ring (Cooper B-Line B3170).....	30.90	14.10
For Work In Restricted Working Space, Add	8.90	
For 304 Stainless Steel, Add	8.05	
For 316 Stainless Steel, Add	10.37	
23 05 29 00-0086 EA 1" Adjustable Swivel Steel Ring (Cooper B-Line B3170).....	32.55	15.51
For Work In Restricted Working Space, Add	9.40	
For 304 Stainless Steel, Add	8.05	
For 316 Stainless Steel, Add	10.37	
23 05 29 00-0087 EA 1-1/4" Adjustable Swivel Steel Ring (Cooper B-Line B3170).....	34.53	16.91
For Work In Restricted Working Space, Add	9.95	
For 304 Stainless Steel, Add	8.98	
For 316 Stainless Steel, Add	11.56	
23 05 29 00-0088 EA 1-1/2" Adjustable Swivel Steel Ring (Cooper B-Line B3170).....	38.96	19.74
For Work In Restricted Working Space, Add	11.28	
For 304 Stainless Steel, Add	8.98	
For 316 Stainless Steel, Add	11.56	
23 05 29 00-0089 EA 2" Adjustable Swivel Steel Ring (Cooper B-Line B3170).....	41.72	19.74
For Work In Restricted Working Space, Add	12.08	
For 304 Stainless Steel, Add	9.50	
For 316 Stainless Steel, Add	12.24	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0090 EA 2-1/2" Adjustable Swivel Steel Ring (Cooper B-Line B3170)..... <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	45.72 13.01 15.44 19.89	21.15
23 05 29 00-0091 EA 3" Adjustable Swivel Steel Ring (Cooper B-Line B3170)..... <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	49.43 14.10 16.10 20.74	23.96
23 05 29 00-0092 EA 3-1/2" Adjustable Swivel Steel Ring (Cooper B-Line B3170)..... <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	54.73 15.44 21.58 27.80	25.73
23 05 29 00-0093 EA 4" Adjustable Swivel Steel Ring (Cooper B-Line B3170)..... <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	59.66 16.92 21.58 27.80	28.20
23 05 29 00-0094 EA 5" Adjustable Swivel Steel Ring (Cooper B-Line B3170)..... <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	70.22 19.03 44.75 57.63	31.72
23 05 29 00-0095 EA 6" Adjustable Swivel Steel Ring (Cooper B-Line B3170)..... <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	77.38 21.15 45.47 58.57	35.25
23 05 29 00-0096 EA 8" Adjustable Swivel Steel Ring (Cooper B-Line B3170)..... <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	92.77 25.38 53.99 69.53	42.29
23 05 29 00-0097 Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT) (23 05 29 00-0072)		
23 05 29 00-0098 EA 1/2" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT)..... <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	31.77 8.46 23.56 30.35	14.10
23 05 29 00-0099 EA 3/4" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT)..... <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	33.25 8.90 23.56 30.35	14.10
23 05 29 00-0100 EA 1" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT)..... <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	34.90 9.40 23.56 30.35	15.51
23 05 29 00-0101 EA 1-1/4" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT)..... <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	36.74 9.95 23.56 30.35	16.91
23 05 29 00-0102 EA 1-1/2" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT)..... <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	41.47 11.28 25.54 32.90	19.74
23 05 29 00-0103 EA 2" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT)..... <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	44.15 12.08 25.54 32.90	19.74
23 05 29 00-0104 EA 2-1/2" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT)..... <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	53.54 13.01 67.06 86.36	21.15
23 05 29 00-0105 EA 3" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT)..... <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	59.58 14.10 83.09 107.02	23.96
23 05 29 00-0106 EA 3-1/2" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT)..... <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	65.04 15.44 89.63 115.43	25.73
23 05 29 00-0107 EA 4" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT)..... <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	72.92 16.92 109.10 140.51	28.20
23 05 29 00-0108 EA 5" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT)..... <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	80.20 19.03 110.62 142.46	31.72
23 05 29 00-0109 EA 6" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT)..... <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	94.76 21.15 160.18 206.30	35.25

23 05 29 00-0110 Roller Hangers (23 05 29 00-0001)

23 05 29 00-0111 Single Pipe Roll (Cooper B-Line B3114) (23 05 29 00-0110)

Note: Excludes rod and nuts. Type 41.

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 29 Hangers and Supports for HVAC Piping and Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0112 EA 2" Single Pipe Roll (Cooper B-Line B3114) Note: Excludes rod and nuts. <i>For Work In Restricted Working Space, Add</i>	38.39 6.77	11.29
23 05 29 00-0113 EA 2-1/2" Single Pipe Roll (Cooper B-Line B3114) Note: Excludes rod and nuts. <i>For Work In Restricted Working Space, Add</i>	42.40 7.62	12.70
23 05 29 00-0114 EA 3" Single Pipe Roll (Cooper B-Line B3114) Note: Excludes rod and nuts. <i>For Work In Restricted Working Space, Add</i>	47.56 8.89	14.81
23 05 29 00-0115 EA 3-1/2" Single Pipe Roll (Cooper B-Line B3114) Note: Excludes rod and nuts. <i>For Work In Restricted Working Space, Add</i>	54.66 10.16	16.92
23 05 29 00-0116 EA 4" Single Pipe Roll (Cooper B-Line B3114) Note: Excludes rod and nuts. <i>For Work In Restricted Working Space, Add</i>	73.14 11.42	19.04
23 05 29 00-0117 EA 5" Single Pipe Roll (Cooper B-Line B3114) Note: Excludes rod and nuts. <i>For Work In Restricted Working Space, Add</i>	67.57 12.69	21.16
23 05 29 00-0118 EA 6" Single Pipe Roll (Cooper B-Line B3114) Note: Excludes rod and nuts. <i>For Work In Restricted Working Space, Add</i>	83.57 15.23	25.39
23 05 29 00-0119 EA 8" Single Pipe Roll (Cooper B-Line B3114) Note: Excludes rod and nuts. <i>For Work In Restricted Working Space, Add</i>	110.11 17.77	29.62
23 05 29 00-0120 EA 10" Single Pipe Roll (Cooper B-Line B3114) Note: Excludes rod and nuts. <i>For Work In Restricted Working Space, Add</i>	130.63 21.16	35.26
23 05 29 00-0121 Adjustable Clevis Roller Hanger (Cooper B-Line B3110) <small>(23 05 29 00-0110)</small> Note: Type 43.		
23 05 29 00-0122 EA 2" Steel Clevis Roller Hanger (Cooper B-Line B3110)..... <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	58.49 11.49 133.32 171.70	19.91
23 05 29 00-0123 EA 2-1/2" Steel Clevis Roller Hanger (Cooper B-Line B3110)..... <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	61.26 12.32 133.32 171.70	20.52
23 05 29 00-0124 EA 3" Steel Clevis Roller Hanger (Cooper B-Line B3110)..... <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	66.30 13.13 148.70 191.51	21.45
23 05 29 00-0125 EA 3-1/2" Steel Clevis Roller Hanger (Cooper B-Line B3110)..... <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	75.95 13.79 198.00 255.00	22.98
23 05 29 00-0126 EA 4" Steel Clevis Roller Hanger (Cooper B-Line B3110)..... <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	81.06 15.32 198.00 255.00	26.04
23 05 29 00-0127 EA 5" Steel Clevis Roller Hanger (Cooper B-Line B3110)..... <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	91.09 16.82 231.13 297.67	28.03
23 05 29 00-0128 EA 6" Steel Clevis Roller Hanger (Cooper B-Line B3110)..... <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	104.77 18.38 287.03 369.67	30.64
23 05 29 00-0129 EA 8" Steel Clevis Roller Hanger (Cooper B-Line B3110)..... <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	141.68 22.98 429.59 553.27	38.29
23 05 29 00-0130 EA 10" Steel Clevis Roller Hanger (Cooper B-Line B3110)..... <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	179.67 30.64 511.83 659.18	52.08
23 05 29 00-0131 EA 12" Steel Clevis Roller Hanger (Cooper B-Line B3110)..... <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	228.88 34.46 752.40 969.00	57.45
23 05 29 00-0132 EA 14" Steel Clevis Roller Hanger (Cooper B-Line B3110)..... <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	447.64 39.52 2,085.01 2,685.24	65.87
23 05 29 00-0133 EA 16" Steel Clevis Roller Hanger (Cooper B-Line B3110)..... <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	558.70 45.95 2,676.43 3,446.92	76.59
23 05 29 00-0134 Roller Chair (Cooper B-Line B3120) <small>(23 05 29 00-0110)</small>		
23 05 29 00-0135 EA 2" Steel Roller Chair (Cooper B-Line B3120)..... <i>For Work In Restricted Working Space, Add</i>	57.16 11.49	19.91



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0136 EA 2-1/2" Steel Roller Chair (Cooper B-Line B3120) <i>For Work In Restricted Working Space, Add</i>	61.55 12.32	20.52
23 05 29 00-0137 EA 3" Steel Roller Chair (Cooper B-Line B3120)..... <i>For Work In Restricted Working Space, Add</i>	64.73 13.13	21.45
23 05 29 00-0138 EA 3-1/2" Steel Roller Chair (Cooper B-Line B3120) <i>For Work In Restricted Working Space, Add</i>	72.65 13.79	22.98
23 05 29 00-0139 EA 4" Steel Roller Chair (Cooper B-Line B3120)..... <i>For Work In Restricted Working Space, Add</i>	80.91 15.32	26.04
23 05 29 00-0140 EA 5" Steel Roller Chair (Cooper B-Line B3120)..... <i>For Work In Restricted Working Space, Add</i>	88.51 16.82	28.03
23 05 29 00-0141 EA 6" Steel Roller Chair (Cooper B-Line B3120)..... <i>For Work In Restricted Working Space, Add</i>	106.46 18.38	30.64
23 05 29 00-0142 EA 8" Steel Roller Chair (Cooper B-Line B3120)..... <i>For Work In Restricted Working Space, Add</i>	137.66 22.98	38.29
23 05 29 00-0143 EA 10" Steel Roller Chair (Cooper B-Line B3120)..... <i>For Work In Restricted Working Space, Add</i>	178.73 30.64	52.08
23 05 29 00-0144 EA 12" Steel Roller Chair (Cooper B-Line B3120)..... <i>For Work In Restricted Working Space, Add</i>	226.44 34.46	57.45
23 05 29 00-0145 EA 14" Steel Roller Chair (Cooper B-Line B3120)..... <i>For Work In Restricted Working Space, Add</i>	248.75 39.52	65.87
23 05 29 00-0146 EA 16" Steel Roller Chair (Cooper B-Line B3120)..... <i>For Work In Restricted Working Space, Add</i>	298.43 45.95	76.59
23 05 29 00-0147 EA 18" Steel Roller Chair (Cooper B-Line B3120)..... <i>For Work In Restricted Working Space, Add</i>	398.30 57.44	95.73
23 05 29 00-0148 EA 20" Steel Roller Chair (Cooper B-Line B3120)..... <i>For Work In Restricted Working Space, Add</i>	490.96 68.93	114.88
23 05 29 00-0149 Adjustable Roller Support (Cooper B-Line B3122) <small>(23 05 29 00-0110)</small>		
23 05 29 00-0150 EA 2" Steel Adjustable Roller Support (Cooper B-Line B3122) <i>For Work In Restricted Working Space, Add</i>	63.37 11.49	19.91
23 05 29 00-0151 EA 2-1/2" Steel Adjustable Roller Support (Cooper B-Line B3122)..... <i>For Work In Restricted Working Space, Add</i>	70.74 12.32	20.52
23 05 29 00-0152 EA 3" Steel Adjustable Roller Support (Cooper B-Line B3122) <i>For Work In Restricted Working Space, Add</i>	74.52 13.13	21.45
23 05 29 00-0153 EA 3-1/2" Steel Adjustable Roller Support (Cooper B-Line B3122)..... <i>For Work In Restricted Working Space, Add</i>	78.64 13.79	22.98
23 05 29 00-0154 EA 4" Steel Adjustable Roller Support (Cooper B-Line B3122) <i>For Work In Restricted Working Space, Add</i>	93.47 15.32	26.04
23 05 29 00-0155 EA 5" Steel Adjustable Roller Support (Cooper B-Line B3122) <i>For Work In Restricted Working Space, Add</i>	105.52 16.82	28.03
23 05 29 00-0156 EA 6" Steel Adjustable Roller Support (Cooper B-Line B3122) <i>For Work In Restricted Working Space, Add</i>	121.82 18.38	30.64
23 05 29 00-0157 EA 8" Steel Adjustable Roller Support (Cooper B-Line B3122) <i>For Work In Restricted Working Space, Add</i>	169.28 22.98	38.29
23 05 29 00-0158 EA 10" Steel Adjustable Roller Support (Cooper B-Line B3122)..... <i>For Work In Restricted Working Space, Add</i>	212.82 30.64	52.08
23 05 29 00-0159 EA 12" Steel Adjustable Roller Support (Cooper B-Line B3122)..... <i>For Work In Restricted Working Space, Add</i>	245.32 34.46	57.45
23 05 29 00-0160 EA 14" Steel Adjustable Roller Support (Cooper B-Line B3122) <i>For Work In Restricted Working Space, Add</i>	339.10 39.52	65.87
23 05 29 00-0161 EA 16" Steel Adjustable Roller Support (Cooper B-Line B3122)..... <i>For Work In Restricted Working Space, Add</i>	405.29 45.95	76.59
23 05 29 00-0162 EA 18" Steel Adjustable Roller Support (Cooper B-Line B3122) <i>For Work In Restricted Working Space, Add</i>	464.79 57.44	95.73
23 05 29 00-0163 Adjustable Double Roller Support (Cooper B-Line B3122A) <small>(23 05 29 00-0110)</small>		
23 05 29 00-0164 EA 2" Steel Adjustable Double Roller Support (Cooper B-Line B3122A) <i>For Work In Restricted Working Space, Add</i>	63.73 11.49	19.91
23 05 29 00-0165 EA 2-1/2" Steel Adjustable Double Roller Support (Cooper B-Line B3122A) <i>For Work In Restricted Working Space, Add</i>	71.06 12.32	20.52
23 05 29 00-0166 EA 3" Steel Adjustable Double Roller Support (Cooper B-Line B3122A) <i>For Work In Restricted Working Space, Add</i>	75.06 13.13	21.45
23 05 29 00-0167 EA 3-1/2" Steel Adjustable Double Roller Support (Cooper B-Line B3122A) <i>For Work In Restricted Working Space, Add</i>	78.17 13.79	22.98
23 05 29 00-0168 EA 4" Steel Adjustable Double Roller Support (Cooper B-Line B3122A) <i>For Work In Restricted Working Space, Add</i>	97.10 15.32	26.04
23 05 29 00-0169 EA 5" Steel Adjustable Double Roller Support (Cooper B-Line B3122A) <i>For Work In Restricted Working Space, Add</i>	109.79 16.82	28.03
23 05 29 00-0170 EA 6" Steel Adjustable Double Roller Support (Cooper B-Line B3122A) <i>For Work In Restricted Working Space, Add</i>	126.91 18.38	30.64
23 05 29 00-0171 EA 8" Steel Adjustable Double Roller Support (Cooper B-Line B3122A) <i>For Work In Restricted Working Space, Add</i>	177.17 22.98	38.29
23 05 29 00-0172 EA 10" Steel Adjustable Double Roller Support (Cooper B-Line B3122A) <i>For Work In Restricted Working Space, Add</i>	222.29 30.64	52.08
23 05 29 00-0173 EA 12" Steel Adjustable Double Roller Support (Cooper B-Line B3122A) <i>For Work In Restricted Working Space, Add</i>	256.40 34.46	57.45
23 05 29 00-0174 EA 14" Steel Adjustable Double Roller Support (Cooper B-Line B3122A) <i>For Work In Restricted Working Space, Add</i>	356.83 39.52	65.87
23 05 29 00-0175 Pipe And Riser Clamps <small>(23 05 29 00-0001)</small>		
<i>Note: Includes bolts and weldless eye nuts.</i>		

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 29 Hangers and Supports for HVAC Piping and Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0176 Steel Pipe Clamp (Cooper B-Line B3140) <small>(23 05 29 00-0175)</small> Note: Type 4.		
23 05 29 00-0177 EA 1/2" Steel Pipe Clamp (Cooper B-Line B3140) <i>For Work In Restricted Working Space, Add</i>	23.00 5.49	9.15
23 05 29 00-0178 EA 3/4" Steel Pipe Clamp (Cooper B-Line B3140) <i>For Work In Restricted Working Space, Add</i>	23.31 5.58	9.30
23 05 29 00-0179 EA 1" Steel Pipe Clamp (Cooper B-Line B3140) <i>For Work In Restricted Working Space, Add</i>	23.65 5.67	9.45
23 05 29 00-0180 EA 1-1/4" Steel Pipe Clamp (Cooper B-Line B3140) <i>For Work In Restricted Working Space, Add</i>	25.38 5.76	9.61
23 05 29 00-0181 EA 1-1/2" Steel Pipe Clamp (Cooper B-Line B3140) <i>For Work In Restricted Working Space, Add</i>	25.69 5.86	9.76
23 05 29 00-0182 EA 2" Steel Pipe Clamp (Cooper B-Line B3140) <i>For Work In Restricted Working Space, Add</i>	27.08 5.95	9.91
23 05 29 00-0183 EA 2-1/2" Steel Pipe Clamp (Cooper B-Line B3140) <i>For Work In Restricted Working Space, Add</i>	28.12 6.13	10.21
23 05 29 00-0184 EA 3" Steel Pipe Clamp (Cooper B-Line B3140) <i>For Work In Restricted Working Space, Add</i>	29.63 6.32	10.52
23 05 29 00-0185 EA 3-1/2" Steel Pipe Clamp (Cooper B-Line B3140) <i>For Work In Restricted Working Space, Add</i>	33.48 6.41	10.68
23 05 29 00-0186 EA 4" Steel Pipe Clamp (Cooper B-Line B3140) <i>For Work In Restricted Working Space, Add</i>	39.58 8.24	13.73
23 05 29 00-0187 EA 5" Steel Pipe Clamp (Cooper B-Line B3140) <i>For Work In Restricted Working Space, Add</i>	55.98 10.98	18.30
23 05 29 00-0188 EA 6" Steel Pipe Clamp (Cooper B-Line B3140) <i>For Work In Restricted Working Space, Add</i>	75.46 13.73	22.88
23 05 29 00-0189 EA 8" Steel Pipe Clamp (Cooper B-Line B3140) <i>For Work In Restricted Working Space, Add</i>	88.69 16.01	26.69
23 05 29 00-0190 EA 10" Steel Pipe Clamp (Cooper B-Line B3140) <i>For Work In Restricted Working Space, Add</i>	124.66 18.30	30.50
23 05 29 00-0191 EA 12" Steel Pipe Clamp (Cooper B-Line B3140) <i>For Work In Restricted Working Space, Add</i>	165.56 20.13	33.55
23 05 29 00-0192 EA 14" Steel Pipe Clamp (Cooper B-Line B3140) <i>For Work In Restricted Working Space, Add</i>	258.01 21.96	36.60
23 05 29 00-0193 EA 16" Steel Pipe Clamp (Cooper B-Line B3140) <i>For Work In Restricted Working Space, Add</i>	279.65 23.79	39.65
23 05 29 00-0194 EA 18" Steel Pipe Clamp (Cooper B-Line B3140) <i>For Work In Restricted Working Space, Add</i>	442.30 25.62	42.70
23 05 29 00-0195 EA 20" Steel Pipe Clamp (Cooper B-Line B3140) <i>For Work In Restricted Working Space, Add</i>	509.47 27.45	45.75
23 05 29 00-0196 EA 24" Steel Pipe Clamp (Cooper B-Line B3140) <i>For Work In Restricted Working Space, Add</i>	658.86 30.20	50.33
23 05 29 00-0197 Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142) <small>(23 05 29 00-0175)</small>		
23 05 29 00-0198 EA 3" Two Bolt Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142) <i>For Work In Restricted Working Space, Add</i>	42.15 5.87	9.86
23 05 29 00-0199 EA 4" Two Bolt Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142) <i>For Work In Restricted Working Space, Add</i>	53.74 5.87	9.86
23 05 29 00-0200 EA 5" Two Bolt Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142) <i>For Work In Restricted Working Space, Add</i>	58.71 6.13	10.22
23 05 29 00-0201 EA 6" Two Bolt Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142) <i>For Work In Restricted Working Space, Add</i>	90.75 6.38	10.57
23 05 29 00-0202 EA 8" Two Bolt Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142) <i>For Work In Restricted Working Space, Add</i>	98.57 6.76	11.28
23 05 29 00-0203 EA 10" Two Bolt Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142) <i>For Work In Restricted Working Space, Add</i>	164.50 6.74	11.28
23 05 29 00-0204 EA 12" Two Bolt Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142) <i>For Work In Restricted Working Space, Add</i>	263.29 7.61	12.69
23 05 29 00-0205 EA 14" Two Bolt Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142) <i>For Work In Restricted Working Space, Add</i>	332.99 8.46	14.10
23 05 29 00-0206 EA 16" Two Bolt Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142) <i>For Work In Restricted Working Space, Add</i>	362.93 10.15	16.91
23 05 29 00-0207 EA 18" Two Bolt Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142) <i>For Work In Restricted Working Space, Add</i>	1,110.97 11.84	19.74
23 05 29 00-0208 EA 20" Two Bolt Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142) <i>For Work In Restricted Working Space, Add</i>	1,276.20 12.69	21.15
23 05 29 00-0209 EA 24" Two Bolt Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142) <i>For Work In Restricted Working Space, Add</i>	1,632.25 13.53	22.56
23 05 29 00-0210 Steel Riser Clamp (Cooper B-Line B3373) <small>(23 05 29 00-0175)</small> Note: Type 8.		
23 05 29 00-0211 EA 1/2" Steel Riser Clamp (Cooper B-Line B3373) <i>For Work In Restricted Working Space, Add</i>	22.79 5.07	8.46
23 05 29 00-0212 EA 3/4" Steel Riser Clamp (Cooper B-Line B3373) <i>For Work In Restricted Working Space, Add</i>	23.63 5.16	8.60
23 05 29 00-0213 EA 1" Steel Riser Clamp (Cooper B-Line B3373) <i>For Work In Restricted Working Space, Add</i>	23.98 5.24	8.74
23 05 29 00-0214 EA 1-1/4" Steel Riser Clamp (Cooper B-Line B3373) <i>For Work In Restricted Working Space, Add</i>	25.63 5.33	8.88
23 05 29 00-0215 EA 1-1/2" Steel Riser Clamp (Cooper B-Line B3373) <i>For Work In Restricted Working Space, Add</i>	26.52 5.42	9.02



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0216 EA 2" Steel Riser Clamp (Cooper B-Line B3373).....	27.12	9.16
For Work In Restricted Working Space, Add	5.50	
23 05 29 00-0217 EA 2-1/2" Steel Riser Clamp (Cooper B-Line B3373).....	28.22	9.44
For Work In Restricted Working Space, Add	5.67	
23 05 29 00-0218 EA 3" Steel Riser Clamp (Cooper B-Line B3373).....	29.76	9.72
For Work In Restricted Working Space, Add	5.84	
23 05 29 00-0219 EA 3-1/2" Steel Riser Clamp (Cooper B-Line B3373).....	32.27	9.86
For Work In Restricted Working Space, Add	5.92	
23 05 29 00-0220 EA 4" Steel Riser Clamp (Cooper B-Line B3373).....	39.56	12.69
For Work In Restricted Working Space, Add	7.61	
23 05 29 00-0221 EA 5" Steel Riser Clamp (Cooper B-Line B3373).....	51.42	16.91
For Work In Restricted Working Space, Add	10.15	
23 05 29 00-0222 EA 6" Steel Riser Clamp (Cooper B-Line B3373).....	65.04	21.15
For Work In Restricted Working Space, Add	12.69	
23 05 29 00-0223 EA 8" Steel Riser Clamp (Cooper B-Line B3373).....	86.59	24.67
For Work In Restricted Working Space, Add	14.80	
23 05 29 00-0224 EA 10" Steel Riser Clamp (Cooper B-Line B3373).....	111.51	28.20
For Work In Restricted Working Space, Add	16.92	
23 05 29 00-0225 EA 12" Steel Riser Clamp (Cooper B-Line B3373).....	133.22	31.01
For Work In Restricted Working Space, Add	18.61	
23 05 29 00-0226 EA 14" Steel Riser Clamp (Cooper B-Line B3373).....	174.79	33.84
For Work In Restricted Working Space, Add	20.30	
23 05 29 00-0227 EA 16" Steel Riser Clamp (Cooper B-Line B3373).....	317.82	36.65
For Work In Restricted Working Space, Add	21.99	
23 05 29 00-0228 Steel Riser Clamp, Plastic Coated (Cooper B-Line B3373C) (23 05 29 00-0175)		
23 05 29 00-0229 EA 1/2" Steel Riser Clamp, Plastic Coated (Cooper B-Line B3373C).....	36.79	8.46
For Work In Restricted Working Space, Add	5.07	
23 05 29 00-0230 EA 3/4" Steel Riser Clamp, Plastic Coated (Cooper B-Line B3373C).....	37.37	8.60
For Work In Restricted Working Space, Add	5.16	
23 05 29 00-0231 EA 1" Steel Riser Clamp, Plastic Coated (Cooper B-Line B3373C).....	38.79	8.74
For Work In Restricted Working Space, Add	5.24	
23 05 29 00-0232 EA 1-1/4" Steel Riser Clamp, Plastic Coated (Cooper B-Line B3373C).....	41.24	8.88
For Work In Restricted Working Space, Add	5.33	
23 05 29 00-0233 EA 1-1/2" Steel Riser Clamp, Plastic Coated (Cooper B-Line B3373C).....	46.04	9.02
For Work In Restricted Working Space, Add	5.42	
23 05 29 00-0234 EA 2" Steel Riser Clamp, Plastic Coated (Cooper B-Line B3373C).....	48.69	9.16
For Work In Restricted Working Space, Add	5.50	
23 05 29 00-0235 EA 2-1/2" Steel Riser Clamp, Plastic Coated (Cooper B-Line B3373C).....	52.44	9.44
For Work In Restricted Working Space, Add	5.67	
23 05 29 00-0236 EA 3" Steel Riser Clamp, Plastic Coated (Cooper B-Line B3373C).....	57.28	9.72
For Work In Restricted Working Space, Add	5.84	
23 05 29 00-0237 EA 4" Steel Riser Clamp, Plastic Coated (Cooper B-Line B3373C).....	77.31	12.69
For Work In Restricted Working Space, Add	7.61	
23 05 29 00-0238 Two Bolt Steel Underground Clamp (Cooper B-Line B3132) (23 05 29 00-0175)		
Note: Type 42		
23 05 29 00-0239 EA 4" Two Bolt Steel Underground Clamp (Cooper B-Line B3132).....	77.93	9.86
For Work In Restricted Working Space, Add	5.87	
23 05 29 00-0240 EA 6" Two Bolt Steel Underground Clamp (Cooper B-Line B3132).....	82.86	10.57
For Work In Restricted Working Space, Add	6.38	
23 05 29 00-0241 EA 8" Two Bolt Steel Underground Clamp (Cooper B-Line B3132).....	90.76	11.28
For Work In Restricted Working Space, Add	6.76	
23 05 29 00-0242 EA 10" Two Bolt Steel Underground Clamp (Cooper B-Line B3132).....	96.47	11.28
For Work In Restricted Working Space, Add	6.74	
23 05 29 00-0243 EA 12" Two Bolt Steel Underground Clamp (Cooper B-Line B3132).....	116.23	12.69
For Work In Restricted Working Space, Add	7.61	
23 05 29 00-0244 EA 14" Two Bolt Steel Underground Clamp (Cooper B-Line B3132).....	137.69	14.10
For Work In Restricted Working Space, Add	8.46	
23 05 29 00-0245 EA 16" Two Bolt Steel Underground Clamp (Cooper B-Line B3132).....	146.76	16.91
For Work In Restricted Working Space, Add	10.15	
23 05 29 00-0246 EA 18" Two Bolt Steel Underground Clamp (Cooper B-Line B3132).....	153.57	19.74
For Work In Restricted Working Space, Add	11.84	
23 05 29 00-0247 EA 20" Two Bolt Steel Underground Clamp (Cooper B-Line B3132).....	180.21	21.15
For Work In Restricted Working Space, Add	12.69	
23 05 29 00-0248 EA 24" Two Bolt Steel Underground Clamp (Cooper B-Line B3132).....	1,102.48	22.56
For Work In Restricted Working Space, Add	13.53	
23 05 29 00-0249 Four Bolt Steel Underground Clamp (Cooper B-Line B3134) (23 05 29 00-0175)		
23 05 29 00-0250 EA 4" Four Bolt Steel Underground Clamp (Cooper B-Line B3134).....	72.33	9.86
For Work In Restricted Working Space, Add	5.87	
23 05 29 00-0251 EA 6" Four Bolt Steel Underground Clamp (Cooper B-Line B3134).....	78.05	10.57
For Work In Restricted Working Space, Add	6.38	
23 05 29 00-0252 EA 8" Four Bolt Steel Underground Clamp (Cooper B-Line B3134).....	132.55	11.28
For Work In Restricted Working Space, Add	6.76	
23 05 29 00-0253 EA 10" Four Bolt Steel Underground Clamp (Cooper B-Line B3134).....	146.71	11.28
For Work In Restricted Working Space, Add	6.74	
23 05 29 00-0254 EA 12" Four Bolt Steel Underground Clamp (Cooper B-Line B3134).....	208.86	12.69
For Work In Restricted Working Space, Add	7.61	
23 05 29 00-0255 EA 14" Four Bolt Steel Underground Clamp (Cooper B-Line B3134).....	317.46	14.10
For Work In Restricted Working Space, Add	8.46	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 29 Hangers and Supports for HVAC Piping and Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0256 EA 16" Four Bolt Steel Underground Clamp (Cooper B-Line B3134)..... <i>For Work In Restricted Working Space, Add</i>	424.79 10.15	16.91
23 05 29 00-0257 EA 18" Four Bolt Steel Underground Clamp (Cooper B-Line B3134)..... <i>For Work In Restricted Working Space, Add</i>	505.37 11.84	19.74
23 05 29 00-0258 EA 20" Four Bolt Steel Underground Clamp (Cooper B-Line B3134)..... <i>For Work In Restricted Working Space, Add</i>	734.73 12.69	21.15
23 05 29 00-0259 EA 24" Four Bolt Steel Underground Clamp (Cooper B-Line B3134)..... <i>For Work In Restricted Working Space, Add</i>	1,002.29 13.53	22.56
23 05 29 00-0260 Split Pipe Clamps And Rings (23 05 29 00-0001)		
23 05 29 00-0261 Adjustable Split Ring Swivel Hanger (Cooper B-Line B3171) (23 05 29 00-0260) Note: Type 6.		
23 05 29 00-0262 EA 3/4" Adjustable Swivel Ring (Cooper B-Line B3171)..... <i>For Work In Restricted Working Space, Add</i>	37.24 7.78	12.96
23 05 29 00-0263 EA 1" Adjustable Swivel Ring (Cooper B-Line B3171)..... <i>For Work In Restricted Working Space, Add</i>	39.43 8.24	13.73
23 05 29 00-0264 EA 1-1/4" Adjustable Swivel Ring (Cooper B-Line B3171)..... <i>For Work In Restricted Working Space, Add</i>	43.06 9.15	15.25
23 05 29 00-0265 EA 1-1/2" Adjustable Swivel Ring (Cooper B-Line B3171)..... <i>For Work In Restricted Working Space, Add</i>	46.17 9.61	16.01
23 05 29 00-0266 EA 2" Adjustable Swivel Ring (Cooper B-Line B3171)..... <i>For Work In Restricted Working Space, Add</i>	49.59 10.07	16.78
23 05 29 00-0267 EA 2-1/2" Adjustable Swivel Ring (Cooper B-Line B3171)..... <i>For Work In Restricted Working Space, Add</i>	59.52 10.52	17.54
23 05 29 00-0268 EA 3" Adjustable Swivel Ring (Cooper B-Line B3171)..... <i>For Work In Restricted Working Space, Add</i>	64.80 10.98	18.30
23 05 29 00-0269 EA 4" Adjustable Swivel Ring (Cooper B-Line B3171)..... <i>For Work In Restricted Working Space, Add</i>	84.21 12.35	20.59
23 05 29 00-0270 EA 5" Adjustable Swivel Ring (Cooper B-Line B3171)..... <i>For Work In Restricted Working Space, Add</i>	106.93 15.56	25.93
23 05 29 00-0271 EA 6" Adjustable Swivel Ring (Cooper B-Line B3171)..... <i>For Work In Restricted Working Space, Add</i>	140.73 18.30	30.50
23 05 29 00-0272 Extension Split Pipe Clamp, Malleable Iron (Cooper B-Line B3198R) (23 05 29 00-0280) Note: Type 11.		
23 05 29 00-0273 EA 1/2" Extension Split Pipe Clamp, Malleable Iron (Cooper B-Line B3198R)..... <i>For Work In Restricted Working Space, Add</i>	25.53 6.56	10.72
23 05 29 00-0274 EA 3/4" Extension Split Pipe Clamp, Malleable Iron (Cooper B-Line B3198R)..... <i>For Work In Restricted Working Space, Add</i>	26.88 6.86	10.72
23 05 29 00-0275 EA 1" Extension Split Pipe Clamp, Malleable Iron (Cooper B-Line B3198R)..... <i>For Work In Restricted Working Space, Add</i>	29.68 7.66	13.78
23 05 29 00-0276 EA 1-1/4" Extension Split Pipe Clamp, Malleable Iron (Cooper B-Line B3198R)..... <i>For Work In Restricted Working Space, Add</i>	32.04 8.06	13.78
23 05 29 00-0277 EA 1-1/2" Extension Split Pipe Clamp, Malleable Iron (Cooper B-Line B3198R)..... <i>For Work In Restricted Working Space, Add</i>	35.20 8.35	13.78
23 05 29 00-0278 EA 2" Extension Split Pipe Clamp, Malleable Iron (Cooper B-Line B3198R)..... <i>For Work In Restricted Working Space, Add</i>	40.64 9.19	15.31
23 05 29 00-0279 EA 2-1/2" Extension Split Pipe Clamp, Malleable Iron (Cooper B-Line B3198R)..... <i>For Work In Restricted Working Space, Add</i>	51.90 9.57	15.31
23 05 29 00-0280 EA 3" Extension Split Pipe Clamp, Malleable Iron (Cooper B-Line B3198R)..... <i>For Work In Restricted Working Space, Add</i>	57.12 9.99	16.85
23 05 29 00-0281 EA 4" Extension Split Pipe Clamp, Malleable Iron (Cooper B-Line B3198R)..... <i>For Work In Restricted Working Space, Add</i>	61.08 10.94	18.38
23 05 29 00-0282 Hinged Extension Split Pipe Clamp (Cooper B-Line B3198H) (23 05 29 00-0260) Note: Type 12.		
23 05 29 00-0283 EA 1/2" Hinged Extension Split Pipe Clamp (Cooper B-Line B3198H)..... <i>For Work In Restricted Working Space, Add</i>	25.53 6.56	10.72
23 05 29 00-0284 EA 3/4" Hinged Extension Split Pipe Clamp (Cooper B-Line B3198H)..... <i>For Work In Restricted Working Space, Add</i>	26.88 6.86	11.49
23 05 29 00-0285 EA 1" Hinged Extension Split Pipe Clamp (Cooper B-Line B3198H)..... <i>For Work In Restricted Working Space, Add</i>	29.68 7.66	13.02
23 05 29 00-0286 EA 1-1/4" Hinged Extension Split Pipe Clamp (Cooper B-Line B3198H)..... <i>For Work In Restricted Working Space, Add</i>	32.04 8.06	13.78
23 05 29 00-0287 EA 1-1/2" Hinged Extension Split Pipe Clamp (Cooper B-Line B3198H)..... <i>For Work In Restricted Working Space, Add</i>	35.20 8.35	13.78
23 05 29 00-0288 EA 2" Hinged Extension Split Pipe Clamp (Cooper B-Line B3198H)..... <i>For Work In Restricted Working Space, Add</i>	40.64 9.19	15.31
23 05 29 00-0289 EA 2-1/2" Hinged Extension Split Pipe Clamp (Cooper B-Line B3198H)..... <i>For Work In Restricted Working Space, Add</i>	51.90 9.57	16.08
23 05 29 00-0290 EA 3" Hinged Extension Split Pipe Clamp (Cooper B-Line B3198H)..... <i>For Work In Restricted Working Space, Add</i>	57.12 9.99	16.85
23 05 29 00-0291 Pipe Straps (23 05 29 00-0001)		
23 05 29 00-0292 Standard Two Hole Pipe Strap, Galvanized Steel (Cooper B-Line B-3180) (23 05 29 00-0291)		
23 05 29 00-0293 EA 1/2" Standard Two Hole Pipe Strap, Galvanized Steel (Cooper B-Line B3180)..... <i>For Work In Restricted Working Space, Add</i>	17.48 4.59	7.66



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0294 EA 3/4" Standard Two Hole Pipe Strap, Galvanized Steel (Cooper B-Line B3180)	18.29	9.19
<i>For Work In Restricted Working Space, Add</i>	4.84	
23 05 29 00-0295 EA 1" Standard Two Hole Pipe Strap, Galvanized Steel (Cooper B-Line B3180)	19.19	9.19
<i>For Work In Restricted Working Space, Add</i>	5.11	
23 05 29 00-0296 EA 1-1/4" Standard Two Hole Pipe Strap, Galvanized Steel (Cooper B-Line B3180)	20.28	9.19
<i>For Work In Restricted Working Space, Add</i>	5.40	
23 05 29 00-0297 EA 1-1/2" Standard Two Hole Pipe Strap, Galvanized Steel (Cooper B-Line B3180)	21.48	10.72
<i>For Work In Restricted Working Space, Add</i>	5.74	
23 05 29 00-0298 EA 2" Standard Two Hole Pipe Strap, Galvanized Steel (Cooper B-Line B3180)	24.27	10.72
<i>For Work In Restricted Working Space, Add</i>	6.13	
23 05 29 00-0299 EA 2-1/2" Standard Two Hole Pipe Strap, Galvanized Steel (Cooper B-Line B3180)	28.83	10.72
<i>For Work In Restricted Working Space, Add</i>	6.56	
23 05 29 00-0300 EA 3" Standard Two Hole Pipe Strap, Galvanized Steel (Cooper B-Line B3180)	35.74	10.72
<i>For Work In Restricted Working Space, Add</i>	7.07	
23 05 29 00-0301 EA 4" Standard Two Hole Pipe Strap, Galvanized Steel (Cooper B-Line B3180)	42.23	13.78
<i>For Work In Restricted Working Space, Add</i>	8.27	
23 05 29 00-0302 EA 6" Standard Two Hole Pipe Strap, Galvanized Steel (Cooper B-Line B3180)	50.84	15.31
<i>For Work In Restricted Working Space, Add</i>	9.19	
23 05 29 00-0303 EA 8" Standard Two Hole Pipe Strap, Galvanized Steel (Cooper B-Line B3180)	62.15	16.85
<i>For Work In Restricted Working Space, Add</i>	10.10	
23 05 29 00-0304 Two Hole Copper-Clad Pipe Straps (23 05 29 00-0291)		
23 05 29 00-0305 EA 1/2" Two Hole Copper-Clad Pipe Strap	8.30	
<i>For Work In Restricted Working Space, Add</i>	2.30	
23 05 29 00-0306 EA 3/4" Two Hole Copper-Clad Pipe Strap	8.79	
<i>For Work In Restricted Working Space, Add</i>	2.41	
23 05 29 00-0307 EA 1" Two Hole Copper-Clad Pipe Strap	9.73	
<i>For Work In Restricted Working Space, Add</i>	2.53	
23 05 29 00-0308 EA 1-1/4" Two Hole Copper-Clad Pipe Strap	10.71	
<i>For Work In Restricted Working Space, Add</i>	2.64	
23 05 29 00-0309 EA 1-1/2" Two Hole Copper-Clad Pipe Strap	11.45	
<i>For Work In Restricted Working Space, Add</i>	2.76	
23 05 29 00-0310 EA 2" Two Hole Copper-Clad Pipe Strap	12.42	
<i>For Work In Restricted Working Space, Add</i>	2.99	
23 05 29 00-0311 One Hole Galvanized Steel Pipe Straps (23 05 29 00-0291)		
23 05 29 00-0312 EA 1/2" One Hole Galvanized Steel Pipe Strap (Anvil 185D)	3.51	
<i>For Work In Restricted Working Space, Add</i>	0.77	
23 05 29 00-0313 EA 3/4" One Hole Galvanized Steel Pipe Strap (Anvil 185D)	4.10	
<i>For Work In Restricted Working Space, Add</i>	0.82	
23 05 29 00-0314 EA 1" One Hole Galvanized Steel Pipe Strap (Anvil 185D)	4.41	
<i>For Work In Restricted Working Space, Add</i>	0.89	
23 05 29 00-0315 EA 1-1/4" Galvanized Steel Strap, 1 Hole	4.74	
<i>For Work In Restricted Working Space, Add</i>	0.96	
23 05 29 00-0316 EA 1-1/2" Galvanized Steel Strap, 1 Hole	5.11	
<i>For Work In Restricted Working Space, Add</i>	1.04	
23 05 29 00-0317 EA 2" Galvanized Steel Strap, 1 Hole	5.69	
<i>For Work In Restricted Working Space, Add</i>	1.15	
23 05 29 00-0318 Pipe and Equipment Support Brackets (23 05 29 00-0001)		
23 05 29 00-0319 Pipe and Equipment Supports, Light Duty Welded Steel Bracket (Cooper B-Line B3068) (23 05 29 00-0318)		
Note: Up to 750# load.		
23 05 29 00-0320 EA 9" x 9" Light Duty Welded Steel Bracket, Wall Mounted (Cooper B-Line B3068)	130.84	16.91
<i>For Galvanized, Add</i>	19.40	
<i>For Work In Restricted Working Space, Add</i>	10.15	
23 05 29 00-0321 EA 13" x 13" Light Duty Welded Steel Bracket, Wall Mounted (Cooper B-Line B3068)	132.61	16.91
<i>For Galvanized, Add</i>	19.75	
<i>For Work In Restricted Working Space, Add</i>	10.15	
23 05 29 00-0322 EA 19" x 19" Light Duty Welded Steel Bracket, Wall Mounted (Cooper B-Line B3068)	139.63	16.91
<i>For Galvanized, Add</i>	21.16	
<i>For Work In Restricted Working Space, Add</i>	10.15	
23 05 29 00-0323 Pipe and Equipment Supports, Medium Duty Welded Steel Bracket (Cooper B-Line B3066) (23 05 29 00-0318)		
Note: Up to 1500# load.		
23 05 29 00-0324 EA 12" Wide x 18" Deep Medium Duty Welded Steel Bracket, Wall Mounted (Cooper B-Line B3066)	302.23	16.91
<i>For Galvanized, Add</i>	53.68	
<i>For Work In Restricted Working Space, Add</i>	10.15	
23 05 29 00-0325 EA 18" Wide x 24" Deep Medium Duty Welded Steel Bracket, Wall Mounted (Cooper B-Line B3066)	352.69	16.91
<i>For Galvanized, Add</i>	63.77	
<i>For Work In Restricted Working Space, Add</i>	10.15	
23 05 29 00-0326 EA 24" Wide x 30" Deep Medium Duty Welded Steel Bracket, Wall Mounted (Cooper B-Line B3066)	455.57	16.91
<i>For Galvanized, Add</i>	84.35	
<i>For Work In Restricted Working Space, Add</i>	10.15	
23 05 29 00-0327 Pipe Alignment Guide (23 05 29 00-0001)		

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 29 Hangers and Supports for HVAC Piping and Equipment**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0328			Pipe Alignment Guide, 1" Insulation <small>(23 05 29 00-0327)</small>		
23 05 29 00-0329	EA		1/2" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-1/2).....	882.46	26.79
23 05 29 00-0330	EA		3/4" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-3/4).....	883.86	27.49
23 05 29 00-0331	EA		1" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-1).....	885.27	28.20
23 05 29 00-0332	EA		1-1/4" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-1-1/4).....	886.68	28.90
23 05 29 00-0333	EA		1-1/2" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-1-1/2).....	968.83	29.60
23 05 29 00-0334	EA		2" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-2).....	987.03	32.43
23 05 29 00-0335	EA		2-1/2" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-2-1/2).....	989.14	33.49
23 05 29 00-0336	EA		3" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-3).....	991.26	34.54
23 05 29 00-0337	EA		4" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-4).....	1,049.05	36.65
23 05 29 00-0338	EA		5" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-5).....	1,220.82	46.53
23 05 29 00-0339	EA		6" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-6).....	1,240.56	56.39
23 05 29 00-0340	EA		8" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-8).....	1,393.54	70.49
23 05 29 00-0341	EA		10" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-10).....	2,607.39	84.59
23 05 29 00-0342	EA		12" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-12).....	3,978.94	112.79
23 05 29 00-0343	EA		14" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-14).....	4,894.85	140.98
23 05 29 00-0344	EA		16" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-16).....	5,897.52	157.90
23 05 29 00-0345	EA		18" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-18).....	6,356.98	176.23
23 05 29 00-0346	EA		20" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-20).....	6,746.37	201.60
23 05 29 00-0347	EA		24" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-24).....	8,528.79	211.47
23 05 29 00-0348			Pipe Alignment Guide, 1-1/2" Insulation <small>(23 05 29 00-0327)</small>		
23 05 29 00-0349	EA		1/2" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-1/2).....	883.86	27.49
23 05 29 00-0350	EA		3/4" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-3/4).....	966.01	28.20
23 05 29 00-0351	EA		1" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-1).....	967.42	28.90
23 05 29 00-0352	EA		1-1/4" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-1-1/4).....	968.83	29.60
23 05 29 00-0353	EA		1-1/2" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-1-1/2).....	970.25	30.31
23 05 29 00-0354	EA		2" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-2).....	988.44	33.13
23 05 29 00-0355	EA		2-1/2" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-2-1/2).....	990.56	34.19
23 05 29 00-0356	EA		3" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-3).....	1,046.23	35.25
23 05 29 00-0357	EA		4" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-4).....	1,050.46	37.36
23 05 29 00-0358	EA		5" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-5).....	1,222.93	47.58
23 05 29 00-0359	EA		6" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-6).....	1,243.37	57.80
23 05 29 00-0360	EA		8" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-8).....	1,397.06	72.25
23 05 29 00-0361	EA		10" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-10).....	2,611.61	86.70
23 05 29 00-0362	EA		12" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-12).....	3,984.58	115.60
23 05 29 00-0363	EA		14" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-14).....	4,901.90	144.50
23 05 29 00-0364	EA		16" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-16).....	5,905.98	162.13
23 05 29 00-0365	EA		18" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-18).....	6,365.44	180.45
23 05 29 00-0366	EA		20" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-20).....	6,756.23	206.54
23 05 29 00-0367	EA		24" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-24).....	8,539.36	216.76
23 05 29 00-0368			Pipe Alignment Guide, 2" Insulation <small>(23 05 29 00-0327)</small>		
23 05 29 00-0369	EA		1/2" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-1/2).....	966.01	28.20
23 05 29 00-0370	EA		3/4" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-3/4).....	979.98	28.90
23 05 29 00-0371	EA		1" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-1).....	981.39	29.60
23 05 29 00-0372	EA		1-1/4" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-1-1/4).....	982.81	30.31
23 05 29 00-0373	EA		1-1/2" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-1-1/2).....	984.21	31.01
23 05 29 00-0374	EA		2" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-2).....	1,043.42	33.84
23 05 29 00-0375	EA		2-1/2" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-2-1/2).....	1,046.23	35.25
23 05 29 00-0376	EA		3" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-3).....	1,047.99	36.13
23 05 29 00-0377	EA		4" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-4).....	1,203.90	38.06
23 05 29 00-0378	EA		5" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-5).....	1,225.05	48.64
23 05 29 00-0379	EA		6" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-6).....	1,370.99	59.21
23 05 29 00-0380	EA		8" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-8).....	1,538.81	74.01
23 05 29 00-0381	EA		10" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-10).....	2,615.84	88.82
23 05 29 00-0382	EA		12" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-12).....	3,990.21	118.43
23 05 29 00-0383	EA		14" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-14).....	4,908.95	148.03
23 05 29 00-0384	EA		16" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-16).....	5,914.11	166.20
23 05 29 00-0385	EA		18" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-18).....	6,374.60	185.04
23 05 29 00-0386	EA		20" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-20).....	6,766.10	211.47
23 05 29 00-0387	EA		24" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-24).....	8,549.94	222.04
23 05 29 00-0388			Pipe Alignment Guide, 2-1/2" Insulation <small>(23 05 29 00-0327)</small>		
23 05 29 00-0389	EA		1/2" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-1/2).....	979.98	28.90
23 05 29 00-0390	EA		3/4" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-3/4).....	1,034.95	29.60
23 05 29 00-0391	EA		1" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-1).....	1,036.37	30.31
23 05 29 00-0392	EA		1-1/4" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-1-1/4).....	1,037.77	31.01
23 05 29 00-0393	EA		1-1/2" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-1-1/2).....	1,039.18	31.72
23 05 29 00-0394	EA		2" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-2).....	1,044.82	34.54
23 05 29 00-0395	EA		2-1/2" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-2-1/2).....	1,047.99	36.13
23 05 29 00-0396	EA		3" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-3).....	1,201.78	37.01
23 05 29 00-0397	EA		4" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-4).....	1,205.31	38.77
23 05 29 00-0398	EA		5" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-5).....	1,351.25	49.34
23 05 29 00-0399	EA		6" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-6).....	1,373.80	60.63
23 05 29 00-0400	EA		8" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-8).....	2,589.76	75.78
23 05 29 00-0401	EA		10" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-10).....	3,935.24	90.93



Table with columns: MINOR CSI UOM DESCRIPTION, TOTAL DIRECT UNIT COST, DEMOLITION UNIT COST. Rows include items like '12" Diameter Pipe Alignment Guide, 2-1/2" Insulation' and 'Sway Bracing For No Hub Pipe'.

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 29 Hangers and Supports for HVAC Piping and Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0470 EA 6" Sway Bracing..... <i>For Work In Restricted Working Space, Add</i>	291.84 21.15	35.25
23 05 29 00-0471 EA 8" Sway Bracing..... <i>For Work In Restricted Working Space, Add</i>	324.49 26.43	43.98
23 05 29 00-0472 EA 10" Sway Bracing..... <i>For Work In Restricted Working Space, Add</i>	368.00 35.24	58.79
23 05 29 00-0473 Pipe Stand With Adjustable Saddle (Cooper B-Line B3088T-18 Base, B3093 Adjustable Pipe Saddle) (23 05 29 00-0001) Note: Heights listed is total for base and adjustable saddle		
23 05 29 00-0474 EA 23" to 28" High Pipe Stand With Adjustable Saddle For 1-1/4" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle)..... <i>For Work In Restricted Working Space, Add</i>	340.08 8.46	14.10
23 05 29 00-0475 EA 24" to 29" High Pipe Stand With Adjustable Saddle For 1-1/2" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle)..... <i>For Work In Restricted Working Space, Add</i>	348.26 9.30	15.51
23 05 29 00-0476 EA 24" to 29" High Pipe Stand With Adjustable Saddle For 2" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle)..... <i>For Work In Restricted Working Space, Add</i>	692.33 10.58	17.62
23 05 29 00-0477 EA 24" to 29" High Pipe Stand With Adjustable Saddle For 2-1/2" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle)..... <i>For Work In Restricted Working Space, Add</i>	841.95 11.84	19.74
23 05 29 00-0478 EA 24" to 29" High Pipe Stand With Adjustable Saddle For 3" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle)..... <i>For Work In Restricted Working Space, Add</i>	853.53 13.11	21.85
23 05 29 00-0479 EA 25" to 29" High Pipe Stand With Adjustable Saddle For 3-1/2" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle)..... <i>For Work In Restricted Working Space, Add</i>	940.06 14.80	24.67
23 05 29 00-0480 EA 25" to 30" High Pipe Stand With Adjustable Saddle For 4" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle)..... <i>For Work In Restricted Working Space, Add</i>	1,118.67 16.07	26.79
23 05 29 00-0481 EA 25" to 30" High Pipe Stand With Adjustable Saddle For 5" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle)..... <i>For Work In Restricted Working Space, Add</i>	1,132.58 17.34	28.90
23 05 29 00-0482 EA 26" to 31" High Pipe Stand With Adjustable Saddle For 6" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle)..... <i>For Work In Restricted Working Space, Add</i>	1,150.43 19.03	31.72
23 05 29 00-0483 EA 28" to 33" High Pipe Stand With Adjustable Saddle For 8" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle)..... <i>For Work In Restricted Working Space, Add</i>	1,199.17 20.72	34.54
23 05 29 00-0484 EA 29" to 34" High Pipe Stand With Adjustable Saddle For 10" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle)..... <i>For Work In Restricted Working Space, Add</i>	1,286.12 22.84	38.06
23 05 29 00-0485 EA 30" to 35" High Pipe Stand With Adjustable Saddle For 12" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle)..... <i>For Work In Restricted Working Space, Add</i>	1,326.01 25.38	42.29
23 05 29 00-0486 EA 32" to 37" High Pipe Stand With Adjustable Saddle For 14" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle)..... <i>For Work In Restricted Working Space, Add</i>	1,613.69 27.92	46.53
23 05 29 00-0487 EA 33" to 38" High Pipe Stand With Adjustable Saddle For 16" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle)..... <i>For Work In Restricted Working Space, Add</i>	1,762.51 31.30	52.16
23 05 29 00-0488 EA 35" to 40" High Pipe Stand With Adjustable Saddle For 18" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle)..... <i>For Work In Restricted Working Space, Add</i>	2,479.67 34.68	57.80
23 05 29 00-0489 EA 36" to 41" High Pipe Stand With Adjustable Saddle For 20" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle)..... <i>For Work In Restricted Working Space, Add</i>	3,060.70 38.06	63.44
23 05 29 00-0490 EA 39" to 44" High Pipe Stand With Adjustable Saddle For 24" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle)..... <i>For Work In Restricted Working Space, Add</i>	3,678.90 41.45	69.08
23 05 29 00-0491 Channel Mounted Cushion Clamp (23 05 29 00-0001) Note: Includes fastening into channel.		
23 05 29 00-0492 EA 1/2" Channel Mounted Cushion Clamp For 3/8" Pipe (Cooper B-Line BVT050).....	16.32	6.35
23 05 29 00-0493 EA 5/8" Channel Mounted Cushion Clamp For 1/2" Pipe (Cooper B-Line BVT062).....	17.19	7.05
23 05 29 00-0494 EA 7/8" Channel Mounted Cushion Clamp For 3/4" Pipe (Cooper B-Line BVT087).....	18.88	7.40
23 05 29 00-0495 EA 1-1/8" Channel Mounted Cushion Clamp For 1" Pipe (Cooper B-Line BVT112).....	20.16	7.75
23 05 29 00-0496 EA 1-3/8" Channel Mounted Cushion Clamp For 1-1/4" Pipe (Cooper B-Line BVT137).....	22.43	8.46
23 05 29 00-0497 EA 1-5/8" Channel Mounted Cushion Clamp For 1-1/2" Pipe (Cooper B-Line BVT162).....	24.82	8.81
23 05 29 00-0498 EA 2-1/8" Channel Mounted Cushion Clamp For 2" Pipe (Cooper B-Line BVT212).....	30.64	9.16
23 05 29 00-0499 EA 2-5/8" Channel Mounted Cushion Clamp For 2-1/2" Pipe (Cooper B-Line BVT262).....	33.78	9.86
23 05 29 00-0500 EA 3-1/8" Channel Mounted Cushion Clamp For 3" Pipe (Cooper B-Line BVT312).....	41.21	11.28
23 05 29 00-0501 EA 4-1/8" Channel Mounted Cushion Clamp For 4" Pipe (Cooper B-Line BVT412).....	60.84	12.69
23 05 29 00-0502 Galvanized Steel Cushion Tube Clamp (KMC) (23 05 29 00-0001) Note: Excludes fastening bolt and drilling if necessary.		
23 05 29 00-0503 EA 1/2" Vinyl Coated Galvanized Cushion Tube Clamp, 1/2" Width For 3/8" Pipe..... Note: 19/32" Center To Center Length, 9/32" Hole Diameter For Screw	5.14	
23 05 29 00-0504 EA 1/2" Vinyl Coated Galvanized Cushion Tube Clamp, 3/4" Width For 3/8" Pipe..... Note: 23/32" Center To Center Length, 13/32" Hole Diameter For Screw	5.27	



	MINOR CSI UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0505	EA	5/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1/2" Width For 1/2" Pipe.....	5.36	
		Note: 23/32" Center To Center Length, 9/32" Hole Diameter For Screw		
23 05 29 00-0506	EA	5/8" Vinyl Coated Galvanized Cushion Tube Clamp, 3/4" Width For 1/2" Pipe.....	5.58	
		Note: 27/32" Center To Center Length, 13/32" Hole Diameter For Screw		
23 05 29 00-0507	EA	7/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1/2" Width For 3/4" Pipe.....	5.32	
		Note: 27/32" Center To Center Length, 9/32" Hole Diameter For Screw		
23 05 29 00-0508	EA	7/8" Vinyl Coated Galvanized Cushion Tube Clamp, 3/4" Width For 3/4" Pipe.....	5.72	
		Note: 31/32" Center To Center Length, 13/32" Hole Diameter For Screw		
23 05 29 00-0509	EA	1-1/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1/2" Width For 1" Pipe	5.47	
		Note: 31/32" Center To Center Length, 9/32" Hole Diameter For Screw		
23 05 29 00-0510	EA	1-1/8" Vinyl Coated Galvanized Cushion Tube Clamp, 3/4" Width For 1" Pipe	5.96	
		Note: 1-1/32" Center To Center Length, 13/32" Hole Diameter For Screw		
23 05 29 00-0511	EA	1-1/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1" Width For 1" Pipe	5.99	
		Note: 1-5/32" Center To Center Length, 17/32" Hole Diameter For Screw		
23 05 29 00-0512	EA	1-3/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1/2" Width For 1-1/4" Pipe	5.70	
		Note: 1-3/32" Center To Center Length, 9/32" Hole Diameter For Screw		
23 05 29 00-0513	EA	1-3/8" Vinyl Coated Galvanized Cushion Tube Clamp, 3/4" Width For 1-1/4" Pipe	5.92	
		Note: 1-7/32" Center To Center Length, 13/32" Hole Diameter For Screw		
23 05 29 00-0514	EA	1-3/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1" Width For 1-1/4" Pipe	6.61	
		Note: 1-11/16" Center To Center Length, 17/32" Hole Diameter For Screw		
23 05 29 00-0515	EA	1-5/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1/2" Width For 1-1/2" Pipe	5.94	
		Note: 1-5/16" Center To Center Length, 9/32" Hole Diameter For Screw		
23 05 29 00-0516	EA	1-5/8" Vinyl Coated Galvanized Cushion Tube Clamp, 3/4" Width For 1-1/2" Pipe	6.39	
		Note: 1-9/16" Center To Center Length, 13/32" Hole Diameter For Screw		
23 05 29 00-0517	EA	1-5/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1" Width For 1-1/2" Pipe	7.13	
		Note: 1-13/16" Center To Center Length, 17/32" Hole Diameter For Screw		
23 05 29 00-0518	EA	2-1/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1/2" Width For 2" Pipe	7.19	
		Note: 1-7/16" Center To Center Length, 9/32" Hole Diameter For Screw		
23 05 29 00-0519	EA	2-1/8" Vinyl Coated Galvanized Cushion Tube Clamp, 3/4" Width For 2" Pipe	7.60	
		Note: 1-9/16" Center To Center Length, 13/32" Hole Diameter For Screw		
23 05 29 00-0520	EA	2-1/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1" Width For 2" Pipe	8.40	
		Note: 1-11/16" Center To Center Length, 17/32" Hole Diameter For Screw		
23 05 29 00-0521	EA	2-5/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1/2" Width For 2-1/2" Pipe	8.65	
		Note: 1-11/16" Center To Center Length, 9/32" Hole Diameter For Screw		
23 05 29 00-0522	EA	2-5/8" Vinyl Coated Galvanized Cushion Tube Clamp, 3/4" Width For 2-1/2" Pipe	9.85	
		Note: 1-13/16" Center To Center Length, 13/32" Hole Diameter For Screw		
23 05 29 00-0523	EA	2-5/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1" Width For 2-1/2" Pipe	9.94	
		Note: 1-15/16" Center To Center Length, 17/32" Hole Diameter For Screw		
23 05 29 00-0524	EA	3-1/8" Vinyl Coated Galvanized Cushion Tube Clamp, 3/4" Width For 3" Pipe	8.89	
		Note: 1-15/16" Center To Center Length, 9/32" Hole Diameter For Screw		
23 05 29 00-0525	EA	3-1/8" Vinyl Coated Galvanized Cushion Tube Clamp, 3/4" Width For 3" Pipe	9.85	
		Note: 2-1/16" Center To Center Length, 13/32" Hole Diameter For Screw		
23 05 29 00-0526	EA	3-1/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1" Width For 3" Pipe	10.44	
		Note: 2-3/16" Center To Center Length, 17/32" Hole Diameter For Screw		
23 05 29 00-0527	EA	3-5/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1/2" Width For 3-1/2" Pipe	9.21	
		Note: 2-3/16" Center To Center Length, 9/32" Hole Diameter For Screw		
23 05 29 00-0528	EA	3-5/8" Vinyl Coated Galvanized Cushion Tube Clamp, 3/4" Width For 3-1/2" Pipe	9.79	
		Note: 2-5/16" Center To Center Length, 13/32" Hole Diameter For Screw		
23 05 29 00-0529	EA	3-5/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1" Width For 3-1/2" Pipe	12.05	
		Note: 2-7/16" Center To Center Length, 17/32" Hole Diameter For Screw		
23 05 29 00-0530	EA	4" Vinyl Coated Galvanized Cushion Tube Clamp, 1/2" Width For 4" Pipe.....	9.14	
		Note: 2-7/16" Center To Center Length, 9/32" Hole Diameter For Screw		
23 05 29 00-0531	EA	4" Vinyl Coated Galvanized Cushion Tube Clamp, 3/4" Width For 4" Pipe.....	9.99	
		Note: 2-9/16" Center To Center Length, 13/32" Hole Diameter For Screw		
23 05 29 00-0532	EA	4" Vinyl Coated Galvanized Cushion Tube Clamp, 1" Width For 4" Pipe.....	12.54	
		Note: 2-11/16" Center To Center Length, 17/32" Hole Diameter For Screw		
23 05 29 00-0533		Rooftop Pipe Supports (23 05 29 00-0001)		
		Note: Excludes pipe/conduit clamps and straps.		
23 05 29 00-0534		Rooftop Support Base (23 05 29 00-0533)		
23 05 29 00-0535	EA	4" x 6" x 4.8" Rooftop Support Base (Cooper B-Line Dura-Blok DBM).....	49.54	11.49
23 05 29 00-0536	EA	4" x 6" x 9.6" Rooftop Support Base (Cooper B-Line Dura-Blok DBP).....	68.96	15.31
23 05 29 00-0537		Rooftop Support Base With 14 Gauge Galvanized Channel (23 05 29 00-0533)		
23 05 29 00-0538	EA	5" x 6" x 4.8" Rooftop Support Base With 14 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB5).....	56.15	11.49
23 05 29 00-0539	EA	5" x 6" x 9.6" Rooftop Support Base With 14 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB10).....	79.71	15.31
23 05 29 00-0540	EA	5" x 6" x 20.2" Rooftop Support Base With 14 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB20).....	146.37	19.14
23 05 29 00-0541	EA	5" x 6" x 30.8" Rooftop Support Base With 14 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB30).....	202.00	22.97
23 05 29 00-0542	EA	5" x 6" x 41.4" Rooftop Support Base With 14 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB40).....	279.30	26.80
23 05 29 00-0543	EA	5" x 6" x 52" Rooftop Support Base With 14 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB48).....	294.76	30.63
23 05 29 00-0544		Rooftop Support Base With 12 Gauge Galvanized Channel (23 05 29 00-0533)		
23 05 29 00-0545	EA	6-7/16" x 6" x 9.6" Rooftop Support Base With 12 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB610).....	97.27	15.31
23 05 29 00-0546	EA	6-7/16" x 6" x 20.2" Support Base With 14 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB620).....	154.21	19.14
23 05 29 00-0547	EA	6-7/16" x 6" x 30.8" Rooftop Support Base With 12 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB630).....	205.14	22.97
23 05 29 00-0548	EA	6-7/16" x 6" x 41.4" Rooftop Support Base With 12 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB640).....	279.48	26.80
23 05 29 00-0549	EA	6-7/16" x 6" x 52" Rooftop Support Base With 12 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB648).....	313.78	22.97

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 29 Hangers and Supports for HVAC Piping and Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0550 Rooftop Bridge Support Base With 12 Gauge Galvanized Channel <small>(23 05 29 00-0533)</small>		
23 05 29 00-0551 EA 5-5/8" x 6" x 28" Rooftop Bridge Support Base With 12 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB10-28).....	162.68	22.97
23 05 29 00-0552 EA 5-5/8" x 6" x 36" Rooftop Bridge Support Base With 12 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB10-36).....	185.34	26.80
23 05 29 00-0553 EA 5-5/8" x 6" x 42" Rooftop Bridge Support Base With 12 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB10-42).....	192.94	30.63
23 05 29 00-0554 EA 5-5/8" x 6" x 50" Rooftop Bridge Support Base With 12 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB10-50).....	211.26	34.46
23 05 29 00-0555 EA 5-5/8" x 6" x 60" Rooftop Bridge Support Base With 12 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB10-60).....	269.87	38.28
23 05 29 00-0556 Rooftop Pipe Support Base And Rod <small>(23 05 29 00-0533)</small>		
23 05 29 00-0557 EA 9.69" To 11.19" Height Rooftop Pipe Support Base And Rod (Cooper B-Line Dura-Blok DBM-1/2CT).....	118.07	15.31
23 05 29 00-0558 EA 9.84" To 11.34" Height Rooftop Pipe Support Base And Rod (Cooper B-Line Dura-Blok DBM-3/4CT).....	118.07	15.31
23 05 29 00-0559 EA 9.95" To 11.45" Height Rooftop Pipe Support Base And Rod (Cooper B-Line Dura-Blok DBM-1CT).....	118.72	15.31
23 05 29 00-0560 EA 10.13" To 11.63" Height Rooftop Pipe Support Base And Rod (Cooper B-Line Dura-Blok DBM-1-1/4CT).....	127.05	19.14
23 05 29 00-0561 EA 10.28" To 11.78" Height Rooftop Pipe Support Base And Rod (Cooper B-Line Dura-Blok DBM-1-1/2CT).....	122.24	19.14
23 05 29 00-0562 EA 10.53" To 12.03" Height Rooftop Pipe Support Base And Rod (Cooper B-Line Dura-Blok DBM-2CT).....	128.41	19.14
23 05 29 00-0563 Rooftop Support Base With 14 Gauge Galvanized Channel And Fixed Height Roller Assembly <small>(23 05 29 00-0533)</small>		
23 05 29 00-0564 EA 7.09" x 6" x 9.6" Rooftop Support Base With 14 Gauge Galvanized Channel And Fixed Height Roller Assembly (Cooper B-Line Dura-Blok DBR2-3 1/2).....	149.54	15.31
23 05 29 00-0565 EA 7.09" x 6" x 9.6" Rooftop Support Base With 14 Gauge Galvanized Channel And Fixed Height Roller Assembly (Cooper B-Line Dura-Blok DBR4-6).....	166.79	15.31
23 05 29 00-0566 EA 8.34" x 6" x 20.2" Rooftop Support Base With 14 Gauge Galvanized Channel And Fixed Height Roller Assembly (Cooper B-Line Dura-Blok DBR8-10).....	218.55	19.14
23 05 29 00-0567 EA 9.38" x 6" x 20.2" Rooftop Support Base With 14 Gauge Galvanized Channel And Fixed Height Roller Assembly (Cooper B-Line Dura-Blok DBR12-14).....	289.09	19.14
23 05 29 00-0568 EA 9.78" x 6" x 20.2" Rooftop Support Base With 14 Gauge Galvanized Channel And Fixed Height Roller Assembly (Cooper B-Line Dura-Blok DBR16-20).....	393.85	19.14
23 05 29 00-0569 Rooftop Support Base And Adjustable Height Roller Assembly <small>(23 05 29 00-0533)</small>		
Note: Includes base, two zinc all threaded rod risers and pipe roller.		
23 05 29 00-0570 EA Up To 12" Height, 6" x 9.6" Rooftop Support Base And Adjustable Height Roller Assembly (Cooper B-Line Dura-Blok DBR10-12).....	186.59	22.97
23 05 29 00-0571 Rooftop Support Base And Adjustable Height Channel Assembly <small>(23 05 29 00-0533)</small>		
Note: Includes base, two zinc all threaded rod and 14 gauge slotted channel.		
23 05 29 00-0572 EA Up To 8" Height, 6" x 9.6" Rooftop Support Base And Adjustable Height Channel Assembly (Cooper B-Line Dura-Blok DBE10-8).....	122.56	19.14
23 05 29 00-0573 EA Up To 12" Height, 6" x 9.6" Rooftop Support Base And Adjustable Height Channel Assembly (Cooper B-Line Dura-Blok DBE10-12).....	166.87	22.97
23 05 29 00-0574 EA Up To 16" Height, 6" x 9.6" Rooftop Support Base And Adjustable Height Channel Assembly (Cooper B-Line Dura-Blok DBE10-16).....	186.14	26.80
23 05 29 00-0575 Rooftop Support Bases With Channel Support And Risers Assembly <small>(23 05 29 00-0533)</small>		
Note: Includes two support bases, two 12 gauge galvanized channel risers and one 12 gauge galvanized channel support. Dimensions are "overall" (height x width x length).		
23 05 29 00-0576 EA 23" x 25-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB2318DS).....	447.51	30.63
23 05 29 00-0577 EA 29" x 25-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB2918DS).....	452.48	30.63
23 05 29 00-0578 EA 41" x 25-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB4118DS).....	469.89	30.63
23 05 29 00-0579 EA 53" x 25-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB5318DS).....	509.87	30.63
23 05 29 00-0580 EA 23" x 31-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB2324DS).....	438.65	30.63
23 05 29 00-0581 EA 29" x 31-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB2924DS).....	455.31	30.63
23 05 29 00-0582 EA 41" x 31-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB4124DS).....	472.73	30.63
23 05 29 00-0583 EA 53" x 31-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB5324DS).....	512.69	30.63
23 05 29 00-0584 EA 23" x 43-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB2336DS).....	458.45	30.63
23 05 29 00-0585 EA 29" x 43-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB2936DS).....	464.27	30.63
23 05 29 00-0586 EA 41" x 43-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB4136DS).....	481.35	30.63
23 05 29 00-0587 EA 53" x 43-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB5336DS).....	521.49	30.63
23 05 29 00-0588 EA 23" x 55-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB2348DS).....	478.69	30.63



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0589 EA 29" x 55-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB2948DS)	483.99	30.63
23 05 29 00-0590 EA 41" x 55-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB4148DS)	501.08	30.63
23 05 29 00-0591 EA 53" x 55-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB5348DS)	541.21	30.63
23 05 29 00-0592 Threaded Rod, Accessories And Attachments (23 05 29)		
23 05 29 00-0593 Threaded Rod And Rod Accessories (23 05 29 00-0592)		
23 05 29 00-0594 Threaded Rod (23 05 29 00-0593)		
Note: Fully threaded.		
23 05 29 00-0595 LF 3/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	4.54	0.96
For Galvanized, Add	1.05	
For Zinc Plated, Add	0.75	
For Work In Restricted Working Space, Add	0.57	
23 05 29 00-0596 LF 1/2" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	6.23	1.03
For Galvanized, Add	1.68	
For Zinc Plated, Add	1.19	
For Work In Restricted Working Space, Add	0.61	
23 05 29 00-0597 LF 5/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	8.60	1.06
For Galvanized, Add	2.60	
For Zinc Plated, Add	1.85	
For Work In Restricted Working Space, Add	0.63	
23 05 29 00-0598 LF 3/4" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	13.96	1.09
For Galvanized, Add	4.72	
For Zinc Plated, Add	3.36	
For Work In Restricted Working Space, Add	0.65	
23 05 29 00-0599 LF 7/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	15.21	1.13
For Galvanized, Add	5.18	
For Zinc Plated, Add	3.69	
For Work In Restricted Working Space, Add	0.68	
23 05 29 00-0600 LF 1" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	20.75	1.27
For Galvanized, Add	7.28	
For Zinc Plated, Add	5.19	
For Work In Restricted Working Space, Add	0.77	
23 05 29 00-0601 LF 1-1/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	25.79	1.42
For Galvanized, Add	9.18	
For Zinc Plated, Add	6.54	
For Work In Restricted Working Space, Add	0.85	
23 05 29 00-0602 Rod Couplings (23 05 29 00-0593)		
23 05 29 00-0603 EA 3/8" Diameter, Threaded Rod Coupling Nut	11.22	
For Work In Restricted Working Space, Add	2.82	
23 05 29 00-0604 EA 1/2" Diameter, Threaded Rod Coupling Nut	12.71	
For Work In Restricted Working Space, Add	3.13	
23 05 29 00-0605 EA 5/8" Diameter, Threaded Rod Coupling Nut	15.78	
For Work In Restricted Working Space, Add	3.53	
23 05 29 00-0606 EA 3/4" Diameter, Threaded Rod Coupling Nut	19.13	
For Work In Restricted Working Space, Add	3.85	
23 05 29 00-0607 EA 7/8" Diameter, Threaded Rod Coupling Nut	27.65	
For Work In Restricted Working Space, Add	4.23	
23 05 29 00-0608 EA 1" Diameter, Threaded Rod Coupling Nut	32.80	
For Work In Restricted Working Space, Add	4.98	
23 05 29 00-0609 EA 1-1/8" Diameter, Threaded Rod Coupling Nut	61.70	
For Work In Restricted Working Space, Add	5.64	
23 05 29 00-0610 Flat Washers (23 05 29 00-0593)		
Note: Zinc plated.		
23 05 29 00-0611 EA 3/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	0.79	0.30
For Galvanized, Add	0.04	
For Work In Restricted Working Space, Add	0.19	
23 05 29 00-0612 EA 1/2" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	1.06	0.30
For Galvanized, Add	0.09	
For Work In Restricted Working Space, Add	0.22	
23 05 29 00-0613 EA 5/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	1.51	0.46
For Galvanized, Add	0.17	
For Work In Restricted Working Space, Add	0.26	
23 05 29 00-0614 EA 3/4" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	2.05	0.46
For Galvanized, Add	0.24	
For Work In Restricted Working Space, Add	0.33	
23 05 29 00-0615 EA 7/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	2.41	0.61
For Galvanized, Add	0.28	
For Work In Restricted Working Space, Add	0.38	
23 05 29 00-0616 EA 1" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	2.81	0.61
For Galvanized, Add	0.35	
For Work In Restricted Working Space, Add	0.43	
23 05 29 00-0617 EA 1-1/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	3.17	0.76
For Galvanized, Add	0.39	
For Work In Restricted Working Space, Add	0.48	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 29 Hangers and Supports for HVAC Piping and Equipment**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0618			Hex Nuts <small>(23 05 29 00-0593)</small> Note: Grade 2 and zinc plated.		
23 05 29 00-0619	EA		3/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	1.00	0.38
			<i>For Galvanized, Add</i>	0.03	
			<i>For Work In Restricted Working Space, Add</i>	0.26	
23 05 29 00-0620	EA		1/2" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	1.25	0.38
			<i>For Galvanized, Add</i>	0.07	
			<i>For Work In Restricted Working Space, Add</i>	0.29	
23 05 29 00-0621	EA		5/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	1.67	0.38
			<i>For Galvanized, Add</i>	0.17	
			<i>For Work In Restricted Working Space, Add</i>	0.30	
23 05 29 00-0622	EA		3/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	1.96	0.76
			<i>For Galvanized, Add</i>	0.22	
			<i>For Work In Restricted Working Space, Add</i>	0.32	
23 05 29 00-0623	EA		7/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	2.81	0.76
			<i>For Galvanized, Add</i>	0.42	
			<i>For Work In Restricted Working Space, Add</i>	0.34	
23 05 29 00-0624	EA		1" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	3.55	0.76
			<i>For Galvanized, Add</i>	0.57	
			<i>For Work In Restricted Working Space, Add</i>	0.38	
23 05 29 00-0625	EA		1-1/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	5.72	0.76
			<i>For Galvanized, Add</i>	1.08	
			<i>For Work In Restricted Working Space, Add</i>	0.43	
23 05 29 00-0626			Turnbuckle (Cooper B-Line B3202) <small>(23 05 29 00-0593)</small> Note: Type 13.		
23 05 29 00-0627	EA		3/8" Turnbuckle (Cooper B-Line B3202).....	31.10	7.66
			<i>For Work In Restricted Working Space, Add</i>	4.59	
23 05 29 00-0628	EA		1/2" Turnbuckle (Cooper B-Line B3202).....	36.65	8.42
			<i>For Work In Restricted Working Space, Add</i>	5.11	
23 05 29 00-0629	EA		5/8" Turnbuckle (Cooper B-Line B3202).....	39.66	9.19
			<i>For Work In Restricted Working Space, Add</i>	5.74	
23 05 29 00-0630	EA		3/4" Turnbuckle (Cooper B-Line B3202).....	49.37	10.72
			<i>For Work In Restricted Working Space, Add</i>	6.56	
23 05 29 00-0631	EA		7/8" Turnbuckle (Cooper B-Line B3202).....	63.21	11.49
			<i>For Work In Restricted Working Space, Add</i>	7.66	
23 05 29 00-0632	EA		1" Turnbuckle (Cooper B-Line B3202).....	78.20	12.26
			<i>For Work In Restricted Working Space, Add</i>	9.19	
23 05 29 00-0633	EA		1-1/8" Turnbuckle (Cooper B-Line B3202).....	107.42	13.79
			<i>For Work In Restricted Working Space, Add</i>	11.49	
23 05 29 00-0634			Swivel Turnbuckle (Cooper B-Line B3224) <small>(23 05 29 00-0593)</small> Note: Type 15.		
23 05 29 00-0635	EA		3/8" Swivel Turnbuckle (Cooper B-Line B3224).....	21.12	7.66
			<i>For Work In Restricted Working Space, Add</i>	4.59	
23 05 29 00-0636	EA		1/2" Swivel Turnbuckle (Cooper B-Line B3224).....	24.27	8.57
			<i>For Work In Restricted Working Space, Add</i>	5.11	
23 05 29 00-0637	EA		5/8" Swivel Turnbuckle (Cooper B-Line B3224).....	31.31	9.49
			<i>For Work In Restricted Working Space, Add</i>	5.74	
23 05 29 00-0638	EA		3/4" Swivel Turnbuckle (Cooper B-Line B3224).....	37.52	10.88
			<i>For Work In Restricted Working Space, Add</i>	6.56	
23 05 29 00-0639			Forged Steel Clevis (Cooper B-Line B3201) <small>(23 05 29 00-0593)</small> Note: Type 14.		
23 05 29 00-0640	EA		3-9/16" Forged Steel Clevis With Pin, 3/8" To 5/8" Rod Size (Cooper B-Line B3201).....	97.88	14.10
			<i>For Work In Restricted Working Space, Add</i>	8.46	
23 05 29 00-0641	EA		4" Forged Steel Clevis With Pin, 3/4" To 7/8" Rod Size (Cooper B-Line B3201).....	141.39	14.80
			<i>For Work In Restricted Working Space, Add</i>	8.90	
23 05 29 00-0642	EA		5-1/16" Forged Steel Clevis With Pin, 1" Rod Size (Cooper B-Line B3201).....	152.72	15.51
			<i>For Work In Restricted Working Space, Add</i>	9.40	
23 05 29 00-0643	EA		5-1/16" Forged Steel Clevis With Pin, 1-1/8" Rod Size (Cooper B-Line B3201).....	159.17	16.91
			<i>For Work In Restricted Working Space, Add</i>	9.95	
23 05 29 00-0644	EA		5-1/16" Forged Steel Clevis With Pin, 1-1/4" Rod Size (Cooper B-Line B3201).....	168.21	19.04
			<i>For Work In Restricted Working Space, Add</i>	11.28	
23 05 29 00-0645	EA		6" Forged Steel Clevis With Pin, 1-1/2" Rod Size (Cooper B-Line B3201).....	276.94	24.67
			<i>For Work In Restricted Working Space, Add</i>	14.80	
23 05 29 00-0646	EA		5-15/16" Forged Steel Clevis With Pin, 1-3/4" Rod Size (Cooper B-Line B3201).....	301.29	28.20
			<i>For Work In Restricted Working Space, Add</i>	16.92	
23 05 29 00-0647	EA		7" Forged Steel Clevis With Pin, 2" Rod Size (Cooper B-Line B3201).....	356.21	35.25
			<i>For Work In Restricted Working Space, Add</i>	21.15	
23 05 29 00-0648			Welded Eye Rod (Cooper B-Line B3211) <small>(23 05 29 00-0593)</small>		
23 05 29 00-0649	EA		3/8" Diameter x 8" Length Shank, Welded Eye Rod.....	31.28	8.27
			<i>For Work In Restricted Working Space, Add</i>	4.98	
23 05 29 00-0650	EA		3/8" Diameter x 10" Length Shank, Welded Eye Rod.....	32.23	8.42
			<i>For Work In Restricted Working Space, Add</i>	5.07	
23 05 29 00-0651	EA		3/8" Diameter x 12" Length Shank, Welded Eye Rod.....	33.17	8.57
			<i>For Work In Restricted Working Space, Add</i>	5.17	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0652 EA 3/8" Diameter x 14" Length Shank, Welded Eye Rod.....	33.49	8.73
<i>For Work In Restricted Working Space, Add</i>	5.27	
23 05 29 00-0653 EA 3/8" Diameter x 18" Length Shank, Welded Eye Rod.....	35.40	9.04
<i>For Work In Restricted Working Space, Add</i>	5.46	
23 05 29 00-0654 EA 3/8" Diameter x 24" Length Shank, Welded Eye Rod.....	37.65	9.65
<i>For Work In Restricted Working Space, Add</i>	5.74	
23 05 29 00-0655 EA 3/8" Diameter x 30" Length Shank, Welded Eye Rod.....	39.23	10.10
<i>For Work In Restricted Working Space, Add</i>	6.03	
23 05 29 00-0656 EA 3/8" Diameter x 36" Length Shank, Welded Eye Rod.....	42.12	10.56
<i>For Work In Restricted Working Space, Add</i>	6.32	
23 05 29 00-0657 EA 3/8" Diameter x 42" Length Shank, Welded Eye Rod.....	44.34	11.03
<i>For Work In Restricted Working Space, Add</i>	6.61	
23 05 29 00-0658 EA 3/8" Diameter x 48" Length Shank, Welded Eye Rod.....	46.58	11.49
<i>For Work In Restricted Working Space, Add</i>	6.89	
23 05 29 00-0659 EA 1/2" Diameter x 8" Length Shank, Welded Eye Rod.....	40.69	9.19
<i>For Work In Restricted Working Space, Add</i>	5.51	
23 05 29 00-0660 EA 1/2" Diameter x 10" Length Shank, Welded Eye Rod.....	41.65	9.34
<i>For Work In Restricted Working Space, Add</i>	5.61	
23 05 29 00-0661 EA 1/2" Diameter x 12" Length Shank, Welded Eye Rod.....	42.65	9.49
<i>For Work In Restricted Working Space, Add</i>	5.71	
23 05 29 00-0662 EA 1/2" Diameter x 14" Length Shank, Welded Eye Rod.....	43.62	9.65
<i>For Work In Restricted Working Space, Add</i>	5.81	
23 05 29 00-0663 EA 1/2" Diameter x 18" Length Shank, Welded Eye Rod.....	45.57	9.95
<i>For Work In Restricted Working Space, Add</i>	6.02	
23 05 29 00-0664 EA 1/2" Diameter x 24" Length Shank, Welded Eye Rod.....	49.14	10.57
<i>For Work In Restricted Working Space, Add</i>	6.32	
23 05 29 00-0665 EA 1/2" Diameter x 30" Length Shank, Welded Eye Rod.....	52.08	11.03
<i>For Work In Restricted Working Space, Add</i>	6.63	
23 05 29 00-0666 EA 1/2" Diameter x 36" Length Shank, Welded Eye Rod.....	55.65	11.49
<i>For Work In Restricted Working Space, Add</i>	6.94	
23 05 29 00-0667 EA 1/2" Diameter x 42" Length Shank, Welded Eye Rod.....	58.56	12.10
<i>For Work In Restricted Working Space, Add</i>	7.24	
23 05 29 00-0668 EA 1/2" Diameter x 48" Length Shank, Welded Eye Rod.....	61.50	12.56
<i>For Work In Restricted Working Space, Add</i>	7.55	
23 05 29 00-0669 EA 5/8" Diameter x 8" Length Shank, Welded Eye Rod.....	53.71	10.27
<i>For Work In Restricted Working Space, Add</i>	6.17	
23 05 29 00-0670 EA 5/8" Diameter x 10" Length Shank, Welded Eye Rod.....	55.32	10.42
<i>For Work In Restricted Working Space, Add</i>	6.27	
23 05 29 00-0671 EA 5/8" Diameter x 12" Length Shank, Welded Eye Rod.....	56.97	10.57
<i>For Work In Restricted Working Space, Add</i>	6.38	
23 05 29 00-0672 EA 5/8" Diameter x 14" Length Shank, Welded Eye Rod.....	57.96	10.88
<i>For Work In Restricted Working Space, Add</i>	6.48	
23 05 29 00-0673 EA 5/8" Diameter x 18" Length Shank, Welded Eye Rod.....	60.58	11.18
<i>For Work In Restricted Working Space, Add</i>	6.70	
23 05 29 00-0674 EA 5/8" Diameter x 24" Length Shank, Welded Eye Rod.....	64.83	11.64
<i>For Work In Restricted Working Space, Add</i>	7.01	
23 05 29 00-0675 EA 5/8" Diameter x 30" Length Shank, Welded Eye Rod.....	69.06	12.26
<i>For Work In Restricted Working Space, Add</i>	7.33	
23 05 29 00-0676 EA 5/8" Diameter x 36" Length Shank, Welded Eye Rod.....	72.67	12.71
<i>For Work In Restricted Working Space, Add</i>	7.65	
23 05 29 00-0677 EA 5/8" Diameter x 42" Length Shank, Welded Eye Rod.....	76.92	13.32
<i>For Work In Restricted Working Space, Add</i>	7.97	
23 05 29 00-0678 EA 5/8" Diameter x 48" Length Shank, Welded Eye Rod.....	81.15	13.79
<i>For Work In Restricted Working Space, Add</i>	8.28	
23 05 29 00-0679 EA 3/4" Diameter x 8" Length Shank, Welded Eye Rod.....	65.44	11.64
<i>For Work In Restricted Working Space, Add</i>	7.01	
23 05 29 00-0680 EA 3/4" Diameter x 10" Length Shank, Welded Eye Rod.....	67.72	11.79
<i>For Work In Restricted Working Space, Add</i>	7.11	
23 05 29 00-0681 EA 3/4" Diameter x 12" Length Shank, Welded Eye Rod.....	69.35	12.10
<i>For Work In Restricted Working Space, Add</i>	7.22	
23 05 29 00-0682 EA 3/4" Diameter x 14" Length Shank, Welded Eye Rod.....	71.62	12.26
<i>For Work In Restricted Working Space, Add</i>	7.33	
23 05 29 00-0683 EA 3/4" Diameter x 18" Length Shank, Welded Eye Rod.....	75.54	12.56
<i>For Work In Restricted Working Space, Add</i>	7.55	
23 05 29 00-0684 EA 3/4" Diameter x 24" Length Shank, Welded Eye Rod.....	81.07	13.17
<i>For Work In Restricted Working Space, Add</i>	7.88	
23 05 29 00-0685 EA 3/4" Diameter x 30" Length Shank, Welded Eye Rod.....	86.62	13.63
<i>For Work In Restricted Working Space, Add</i>	8.20	
23 05 29 00-0686 EA 3/4" Diameter x 36" Length Shank, Welded Eye Rod.....	92.83	14.25
<i>For Work In Restricted Working Space, Add</i>	8.53	
23 05 29 00-0687 EA 3/4" Diameter x 42" Length Shank, Welded Eye Rod.....	99.00	14.70
<i>For Work In Restricted Working Space, Add</i>	8.86	
23 05 29 00-0688 EA 3/4" Diameter x 48" Length Shank, Welded Eye Rod.....	104.56	15.31
<i>For Work In Restricted Working Space, Add</i>	9.18	
23 05 29 00-0689 EA 7/8" Diameter x 8" Length Shank, Welded Eye Rod.....	78.10	13.48
<i>For Work In Restricted Working Space, Add</i>	8.13	
23 05 29 00-0690 EA 7/8" Diameter x 10" Length Shank, Welded Eye Rod.....	81.01	13.79
<i>For Work In Restricted Working Space, Add</i>	8.24	
23 05 29 00-0691 EA 7/8" Diameter x 12" Length Shank, Welded Eye Rod.....	83.32	13.94
<i>For Work In Restricted Working Space, Add</i>	8.36	
23 05 29 00-0692 EA 7/8" Diameter x 14" Length Shank, Welded Eye Rod.....	85.60	14.10
<i>For Work In Restricted Working Space, Add</i>	8.47	
23 05 29 00-0693 EA 7/8" Diameter x 18" Length Shank, Welded Eye Rod.....	90.20	14.55
<i>For Work In Restricted Working Space, Add</i>	8.69	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 29 Hangers and Supports for HVAC Piping and Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0694 EA 7/8" Diameter x 24" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	97.70 9.04	15.01
23 05 29 00-0695 EA 7/8" Diameter x 30" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	104.56 9.38	15.63
23 05 29 00-0696 EA 7/8" Diameter x 36" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	112.06 9.71	16.24
23 05 29 00-0697 EA 7/8" Diameter x 42" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	118.94 10.05	16.69
23 05 29 00-0698 EA 7/8" Diameter x 48" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	125.81 10.40	17.30
23 05 29 00-0699 EA 1" Diameter x 8" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	97.37 9.70	16.24
23 05 29 00-0700 EA 1" Diameter x 10" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	100.35 9.83	16.39
23 05 29 00-0701 EA 1" Diameter x 12" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	103.32 9.96	16.54
23 05 29 00-0702 EA 1" Diameter x 14" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	106.29 10.08	16.85
23 05 29 00-0703 EA 1" Diameter x 18" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	112.23 10.34	17.30
23 05 29 00-0704 EA 1" Diameter x 24" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	121.17 10.72	17.92
23 05 29 00-0705 EA 1" Diameter x 30" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	130.11 11.11	18.53
23 05 29 00-0706 EA 1" Diameter x 36" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	139.63 11.49	19.14
23 05 29 00-0707 EA 1" Diameter x 42" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	148.57 11.87	19.76
23 05 29 00-0708 EA 1" Diameter x 48" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	157.51 12.26	20.37
23 05 29 00-0709 Welded Linked Eye Rod (Cooper B-Line B3211X) (23 05 29 00-0593)		
23 05 29 00-0710 EA 3/8" Diameter x 16" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	61.96 6.74	11.18
23 05 29 00-0711 EA 3/8" Diameter x 20" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	63.63 6.93	11.49
23 05 29 00-0712 EA 3/8" Diameter x 24" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	65.32 7.12	11.94
23 05 29 00-0713 EA 3/8" Diameter x 30" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	66.29 7.41	12.40
23 05 29 00-0714 EA 3/8" Diameter x 36" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	69.34 7.70	12.87
23 05 29 00-0715 EA 3/8" Diameter x 48" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	73.42 8.27	13.78
23 05 29 00-0716 EA 3/8" Diameter x 60" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	76.37 8.84	14.70
23 05 29 00-0717 EA 3/8" Diameter x 72" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	81.49 9.42	15.77
23 05 29 00-0718 EA 1/2" Diameter x 16" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	78.89 7.45	12.41
23 05 29 00-0719 EA 1/2" Diameter x 20" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	80.61 7.65	12.71
23 05 29 00-0720 EA 1/2" Diameter x 24" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	82.39 7.85	13.02
23 05 29 00-0721 EA 1/2" Diameter x 30" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	84.48 8.16	13.63
23 05 29 00-0722 EA 1/2" Diameter x 36" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	87.58 8.46	14.10
23 05 29 00-0723 EA 1/2" Diameter x 48" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	93.89 9.08	15.16
23 05 29 00-0724 EA 1/2" Diameter x 60" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	99.12 9.69	16.09
23 05 29 00-0725 EA 1/2" Diameter x 72" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	105.42 10.30	17.15
23 05 29 00-0726 EA 5/8" Diameter x 16" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	104.05 8.37	13.79
23 05 29 00-0727 EA 5/8" Diameter x 20" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	106.85 8.53	14.25
23 05 29 00-0728 EA 5/8" Diameter x 24" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	109.70 8.74	14.55
23 05 29 00-0729 EA 5/8" Diameter x 30" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	111.83 9.05	15.16
23 05 29 00-0730 EA 5/8" Diameter x 36" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	116.07 9.37	15.63
23 05 29 00-0731 EA 5/8" Diameter x 48" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	123.49 10.00	16.69
23 05 29 00-0732 EA 5/8" Diameter x 60" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	130.91 10.64	17.77
23 05 29 00-0733 EA 5/8" Diameter x 72" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	137.28 11.27	18.84
23 05 29 00-0734 EA 3/4" Diameter x 16" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	130.53 9.41	15.63



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0735 EA 3/4" Diameter x 20" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	134.49 9.63	16.09
23 05 29 00-0736 EA 3/4" Diameter x 24" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	137.32 9.85	16.39
23 05 29 00-0737 EA 3/4" Diameter x 30" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	141.59 10.18	17.00
23 05 29 00-0738 EA 3/4" Diameter x 36" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	147.99 10.50	17.47
23 05 29 00-0739 EA 3/4" Diameter x 48" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	157.57 11.15	18.53
23 05 29 00-0740 EA 3/4" Diameter x 60" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	167.20 11.81	19.61
23 05 29 00-0741 EA 3/4" Diameter x 72" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	177.89 12.46	20.83
23 05 29 00-0742 EA 7/8" Diameter x 16" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	156.39 10.88	18.08
23 05 29 00-0743 EA 7/8" Diameter x 20" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	161.42 11.11	18.53
23 05 29 00-0744 EA 7/8" Diameter x 24" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	165.36 11.34	18.84
23 05 29 00-0745 EA 7/8" Diameter x 30" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	169.67 11.68	19.46
23 05 29 00-0746 EA 7/8" Diameter x 36" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	177.21 12.02	20.07
23 05 29 00-0747 EA 7/8" Diameter x 48" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	190.08 12.70	21.14
23 05 29 00-0748 EA 7/8" Diameter x 60" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	201.91 13.38	22.36
23 05 29 00-0749 EA 7/8" Diameter x 72" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	214.79 14.06	23.44
23 05 29 00-0750 EA 1" Diameter x 16" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	198.39 12.97	21.60
23 05 29 00-0751 EA 1" Diameter x 20" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	203.50 13.22	22.06
23 05 29 00-0752 EA 1" Diameter x 24" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	208.60 13.48	22.51
23 05 29 00-0753 EA 1" Diameter x 30" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	214.14 13.86	23.13
23 05 29 00-0754 EA 1" Diameter x 36" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	223.87 14.24	23.74
23 05 29 00-0755 EA 1" Diameter x 48" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	239.20 15.01	24.97
23 05 29 00-0756 EA 1" Diameter x 60" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	254.53 15.78	26.34
23 05 29 00-0757 EA 1" Diameter x 72" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	270.82 16.54	27.57
23 05 29 00-0758 Attachments <small>(23 05 29 00-0592)</small>		
23 05 29 00-0759 Welded Beam Attachments (B-Line B-3083) <small>(23 05 29 00-0758)</small>		
<small>Note: Type 22.</small>		
23 05 29 00-0760 EA 3/8" Rod Size, Welded Beam Attachment With Pin (B-Line B-3083)..... <i>For Work In Restricted Working Space, Add</i>	63.20 8.56	14.26
23 05 29 00-0761 EA 1/2" Rod Size, Welded Beam Attachment With Pin (B-Line B-3083)..... <i>For Work In Restricted Working Space, Add</i>	67.43 9.01	14.98
23 05 29 00-0762 EA 5/8" Rod Size, Welded Beam Attachment With Pin (B-Line B-3083)..... <i>For Work In Restricted Working Space, Add</i>	71.79 9.51	15.84
23 05 29 00-0763 EA 3/4" Rod Size, Welded Beam Attachment With Pin (B-Line B-3083)..... <i>For Work In Restricted Working Space, Add</i>	91.63 10.07	16.83
23 05 29 00-0764 EA 7/8" Rod Size, Welded Beam Attachment With Pin (B-Line B-3083)..... <i>For Work In Restricted Working Space, Add</i>	109.96 10.70	17.83
23 05 29 00-0765 EA 1" Rod Size, Welded Beam Attachment With Pin (B-Line B-3083)..... <i>For Work In Restricted Working Space, Add</i>	154.19 12.23	20.41
23 05 29 00-0766 EA 1-1/8" Rod Size, Welded Beam Attachment With Pin (B-Line B-3083)..... <i>For Work In Restricted Working Space, Add</i>	218.42 12.84	21.40
23 05 29 00-0767 C-Clamp Style Beam Clamps (B-Line B-3034) <small>(23 05 29 00-0758)</small>		
<small>Note: Type 23. Top or bottom flange mount.</small>		
23 05 29 00-0768 EA 3/8" Rod Size, C-Clamp Style Beam Clamp (B-Line B-3034)..... <i>For Work In Restricted Working Space, Add</i>	23.38 5.74	7.81
23 05 29 00-0769 EA 1/2" Rod Size, C-Clamp Style Beam Clamp (B-Line B-3034)..... <i>For Work In Restricted Working Space, Add</i>	27.76 6.13	9.95
23 05 29 00-0770 EA 5/8" Rod Size, C-Clamp Style Beam Clamp (B-Line B-3034)..... <i>For Work In Restricted Working Space, Add</i>	31.42 6.56	10.72
23 05 29 00-0771 EA 3/4" Rod Size, C-Clamp Style Beam Clamp (B-Line B-3034)..... <i>For Work In Restricted Working Space, Add</i>	40.13 7.07	11.49
23 05 29 00-0772 EA 7/8" Rod Size, C-Clamp Style Beam Clamp (B-Line B-3034)..... <i>For Work In Restricted Working Space, Add</i>	57.70 7.66	12.26
23 05 29 00-0773 Bottom Mount I-Beam Clamps (B-Line B-3055) <small>(23 05 29 00-0758)</small>		
<small>Note: Type 21. For attaching threaded rod centered under beam flanges.</small>		

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 29 Hangers and Supports for HVAC Piping and Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0774 EA 3/8" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp (B-Line B-3055).....	62.75	10.72
<i>For Work In Restricted Working Space, Add</i>	7.66	
23 05 29 00-0775 EA 1/2" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp (B-Line B-3055).....	91.64	13.79
<i>For Work In Restricted Working Space, Add</i>	8.36	
23 05 29 00-0776 EA 5/8" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp (B-Line B-3055).....	130.38	15.31
<i>For Work In Restricted Working Space, Add</i>	9.19	
23 05 29 00-0777 EA 3/4" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp (B-Line B-3055).....	155.89	16.85
<i>For Work In Restricted Working Space, Add</i>	10.21	
23 05 29 00-0778 EA 1" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp (B-Line B-3055).....	374.75	18.38
<i>For Work In Restricted Working Space, Add</i>	11.49	
23 05 29 00-0779 Steel U-Bolts (B-Line B-3188) (23 05 29 00-0758)		
Note: Type 24. Includes plate and nuts.		
23 05 29 00-0780 EA 1/2" Pipe Size, Steel U-Bolt (B-Line B-3188).....	19.04	3.83
<i>For Work In Restricted Working Space, Add</i>	4.59	
23 05 29 00-0781 EA 3/4" Pipe Size, Steel U-Bolt (B-Line B-3188).....	20.63	4.59
<i>For Work In Restricted Working Space, Add</i>	4.84	
23 05 29 00-0782 EA 1" Pipe Size, Steel U-Bolt (B-Line B-3188).....	22.19	4.59
<i>For Work In Restricted Working Space, Add</i>	5.11	
23 05 29 00-0783 EA 1-1/4" Pipe Size, Steel U-Bolt (B-Line B-3188).....	25.13	4.59
<i>For Work In Restricted Working Space, Add</i>	5.40	
23 05 29 00-0784 EA 1-1/2" Pipe Size, Steel U-Bolt (B-Line B-3188).....	25.99	5.36
<i>For Work In Restricted Working Space, Add</i>	5.74	
23 05 29 00-0785 EA 2" Pipe Size, Steel U-Bolt (B-Line B-3188).....	27.82	5.36
<i>For Work In Restricted Working Space, Add</i>	6.13	
23 05 29 00-0786 EA 2-1/2" Pipe Size, Steel U-Bolt (B-Line B-3188).....	39.60	5.36
<i>For Work In Restricted Working Space, Add</i>	6.56	
23 05 29 00-0787 EA 3" Pipe Size, Steel U-Bolt (B-Line B-3188).....	43.63	6.12
<i>For Work In Restricted Working Space, Add</i>	7.07	
23 05 29 00-0788 EA 4" Pipe Size, Steel U-Bolt (B-Line B-3188).....	52.52	6.90
<i>For Work In Restricted Working Space, Add</i>	7.66	
23 05 29 00-0789 Copper Standoff Brackets With Flange (23 05 29 00-0758)		
Note: Installed in wood, concrete, concrete block or steel.		
23 05 29 00-0790 EA Clamp Size 1/2", Copper Standoff Brackets With Flange.....	45.58	21.90
<i>For Work In Restricted Working Space, Add</i>	13.13	
23 05 29 00-0791 EA Clamp Size 3/4", Copper Standoff Brackets With Flange.....	45.69	21.90
<i>For Work In Restricted Working Space, Add</i>	13.13	
23 05 29 00-0792 EA Clamp Size 1", Copper Standoff Brackets With Flange.....	45.80	21.90
<i>For Work In Restricted Working Space, Add</i>	13.13	
23 05 29 00-0793 EA Clamp Size 1 1/4", Copper Standoff Brackets With Flange.....	48.66	23.29
<i>For Work In Restricted Working Space, Add</i>	13.92	
23 05 29 00-0794 EA Clamp Size 1 1/2", Copper Standoff Brackets With Flange.....	48.88	23.29
<i>For Work In Restricted Working Space, Add</i>	13.92	
23 05 29 00-0795 Malleable Iron Eye Sockets (B-Line B-3222) (23 05 29 00-0758)		
Note: Type 16.		
23 05 29 00-0796 EA 3/8" Rod Size, Malleable Iron Eye Socket.....	14.03	2.30
<i>For Work In Restricted Working Space, Add</i>	1.40	
23 05 29 00-0797 EA 1/2" Rod Size, Malleable Iron Eye Socket.....	17.89	3.07
<i>For Work In Restricted Working Space, Add</i>	1.84	
23 05 29 00-0798 EA 5/8" Rod Size, Malleable Iron Eye Socket.....	30.36	3.07
<i>For Work In Restricted Working Space, Add</i>	1.86	
23 05 29 00-0799 EA 3/4" Rod Size, Malleable Iron Eye Socket.....	42.56	3.07
<i>For Work In Restricted Working Space, Add</i>	1.84	
23 05 29 00-0800 EA 7/8" Rod Size, Malleable Iron Eye Socket.....	46.06	3.83
<i>For Work In Restricted Working Space, Add</i>	2.30	
23 05 29 00-0801 Steel Weldless Eye Nuts (B-Line B-3200) (23 05 29 00-0758)		
Note: Type 17.		
23 05 29 00-0802 EA 3/8" Rod Size, Steel Weldless Eye Nut.....	44.73	2.30
<i>For Work In Restricted Working Space, Add</i>	1.40	
23 05 29 00-0803 EA 1/2" Rod Size, Steel Weldless Eye Nut.....	46.20	3.07
<i>For Work In Restricted Working Space, Add</i>	1.84	
23 05 29 00-0804 EA 5/8" Rod Size, Steel Weldless Eye Nut.....	46.27	3.07
<i>For Work In Restricted Working Space, Add</i>	1.86	
23 05 29 00-0805 EA 3/4" Rod Size, Steel Weldless Eye Nut.....	46.20	3.07
<i>For Work In Restricted Working Space, Add</i>	1.84	
23 05 29 00-0806 EA 7/8" Rod Size, Steel Weldless Eye Nut.....	89.61	3.37
<i>For Work In Restricted Working Space, Add</i>	2.07	
23 05 29 00-0807 EA 1" Rod Size, Steel Weldless Eye Nut.....	90.38	3.83
<i>For Work In Restricted Working Space, Add</i>	2.30	
23 05 29 00-0808 Top Mount I-Beam Clamps (B-Line B-3042) (23 05 29 00-0758)		
Note: For attaching threaded rod to either side of an I-beam.		
23 05 29 00-0809 EA 3/8" Rod Size, Up To 6" Flange Width, Top Mount I-Beam Clamp.....	31.28	7.13
<i>For Work In Restricted Working Space, Add</i>	4.28	
23 05 29 00-0810 EA 1/2" Rod Size, Up To 6" Flange Width, Top Mount I-Beam Clamp.....	37.51	7.85
<i>For Work In Restricted Working Space, Add</i>	4.72	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0811 EA 5/8" Rod Size, Up To 6" Flange Width, Top Mount I-Beam Clamp <i>For Work In Restricted Working Space, Add</i>	45.30 5.19	8.56
23 05 29 00-0812 EA 3/4" Rod Size, Up To 6" Flange Width, Top Mount I-Beam Clamp <i>For Work In Restricted Working Space, Add</i>	61.78 5.46	9.27
23 05 29 00-0813 EA 7/8" Rod Size, Up To 6" Flange Width, Top Mount I-Beam Clamp <i>For Work In Restricted Working Space, Add</i>	94.25 6.42	10.70
23 05 29 00-0814 EA 3/8" Rod Size, >6" To 8" Flange Width, Top Mount I-Beam Clamp <i>For Work In Restricted Working Space, Add</i>	32.86 4.28	7.13
23 05 29 00-0815 EA 1/2" Rod Size, >6" To 8" Flange Width, Top Mount I-Beam Clamp <i>For Work In Restricted Working Space, Add</i>	39.74 4.72	7.85
23 05 29 00-0816 EA 5/8" Rod Size, >6" To 8" Flange Width, Top Mount I-Beam Clamp <i>For Work In Restricted Working Space, Add</i>	45.30 5.19	8.56
23 05 29 00-0817 EA 3/4" Rod Size, >6" To 8" Flange Width, Top Mount I-Beam Clamp <i>For Work In Restricted Working Space, Add</i>	67.65 5.46	9.27
23 05 29 00-0818 EA 7/8" Rod Size, >6" To 8" Flange Width, Top Mount I-Beam Clamp <i>For Work In Restricted Working Space, Add</i>	104.28 6.42	10.70
23 05 29 00-0819 EA 3/8" Rod Size, >8" To 12" Flange Width, Top Mount I-Beam Clamp <i>For Work In Restricted Working Space, Add</i>	36.53 4.28	7.13
23 05 29 00-0820 EA 1/2" Rod Size, >8" To 12" Flange Width, Top Mount I-Beam Clamp <i>For Work In Restricted Working Space, Add</i>	43.87 4.72	7.85
23 05 29 00-0821 EA 5/8" Rod Size, >8" To 12" Flange Width, Top Mount I-Beam Clamp <i>For Work In Restricted Working Space, Add</i>	54.98 5.19	8.56
23 05 29 00-0822 EA 3/4" Rod Size, >8" To 12" Flange Width, Top Mount I-Beam Clamp <i>For Work In Restricted Working Space, Add</i>	78.64 5.46	9.27
23 05 29 00-0823 EA 7/8" Rod Size, >8" To 12" Flange Width, Top Mount I-Beam Clamp <i>For Work In Restricted Working Space, Add</i>	125.77 6.42	10.70
23 05 29 00-0824 Side Beam Brackets (B-Line B-3062) (23 05 29 00-0758) Note: Type 34.		
23 05 29 00-0825 EA 3/8" Rod Size, Side Beam Bracket <i>For Work In Restricted Working Space, Add</i>	25.99 5.74	9.95
23 05 29 00-0826 EA 1/2" Rod Size, Side Beam Bracket <i>For Work In Restricted Working Space, Add</i>	30.59 6.13	9.95
23 05 29 00-0827 EA 5/8" Rod Size, Side Beam Bracket <i>For Work In Restricted Working Space, Add</i>	39.23 6.56	10.72
23 05 29 00-0828 EA 3/4" Rod Size, Side Beam Bracket <i>For Work In Restricted Working Space, Add</i>	68.44 7.07	11.49
23 05 29 00-0829 EA 7/8" Rod Size, Side Beam Bracket <i>For Work In Restricted Working Space, Add</i>	79.94 7.66	13.02
23 05 29 00-0830 Hex Lag Bolts (23 05 29 00-0758) Note: Also known as coach screws.		
23 05 29 00-0831 EA 3/8" x 3-1/2" Long, Hex Lag Bolt <i>For Work In Restricted Working Space, Add</i>	4.08 0.96	
23 05 29 00-0832 EA 3/8" x 4" Long, Hex Lag Bolt <i>For Work In Restricted Working Space, Add</i>	4.14 0.99	
23 05 29 00-0833 EA 3/8" x 6" Long, Hex Lag Bolt <i>For Work In Restricted Working Space, Add</i>	4.64 1.03	
23 05 29 00-0834 EA 3/8" x 8" Long, Hex Lag Bolt <i>For Work In Restricted Working Space, Add</i>	5.54 1.07	
23 05 29 00-0835 EA 3/8" x 10" Long, Hex Lag Bolt <i>For Work In Restricted Working Space, Add</i>	5.89 1.10	
23 05 29 00-0836 EA 3/8" x 12" Long, Hex Lag Bolt <i>For Work In Restricted Working Space, Add</i>	7.41 1.15	
23 05 29 00-0837 EA 1/2" x 3-1/2" Long, Hex Lag Bolt <i>For Work In Restricted Working Space, Add</i>	5.54 1.15	
23 05 29 00-0838 EA 1/2" x 4" Long, Hex Lag Bolt <i>For Work In Restricted Working Space, Add</i>	5.62 1.20	
23 05 29 00-0839 EA 1/2" x 6" Long, Hex Lag Bolt <i>For Work In Restricted Working Space, Add</i>	6.50 1.25	
23 05 29 00-0840 EA 1/2" x 8" Long, Hex Lag Bolt <i>For Work In Restricted Working Space, Add</i>	7.49 1.31	
23 05 29 00-0841 EA 1/2" x 10" Long, Hex Lag Bolt <i>For Work In Restricted Working Space, Add</i>	8.78 1.37	
23 05 29 00-0842 EA 1/2" x 12" Long, Hex Lag Bolt <i>For Work In Restricted Working Space, Add</i>	9.40 1.43	
23 05 29 00-0843 EA 5/8" x 4" Long, Hex Lag Bolt <i>For Work In Restricted Working Space, Add</i>	7.58 1.28	
23 05 29 00-0844 EA 3/4" x 5" Long, Hex Lag Bolt <i>For Work In Restricted Working Space, Add</i>	8.84 1.31	
23 05 29 00-0845 Hanger Strap (23 05 29 00-0592)		
23 05 29 00-0846 LF 3/4" Wide x 0.025" Thick Galvanized Hanger Strap.....	7.33	
23 05 29 00-0847 Shields And Saddles (23 05 29)		
23 05 29 00-0848 Insulation Protection Shield (23 05 29 00-0847) Note: Type 40.		
23 05 29 00-0849 Insulation Protection Shield (Cooper B-Line B3151) (23 05 29 00-0848)		

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 29 Hangers and Supports for HVAC Piping and Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0850 EA 1-1/2" Outside Diameter, 18 Gauge Insulation Protection Shield, 12" Length (Cooper B-Line B3151).....	18.82	3.68
<i>For Work In Restricted Working Space, Add</i>	3.68	
23 05 29 00-0851 EA 2" Outside Diameter, 18 Gauge Insulation Protection Shield, 12" Length (Cooper B-Line B3151).....	19.09	3.72
<i>For Work In Restricted Working Space, Add</i>	3.72	
23 05 29 00-0852 EA 2-1/2" Outside Diameter, 18 Gauge Insulation Protection Shield, 12" Length (Cooper B-Line B3151).....	19.51	3.77
<i>For Work In Restricted Working Space, Add</i>	3.77	
23 05 29 00-0853 EA 3" Outside Diameter, 18 Gauge Insulation Protection Shield, 12" Length (Cooper B-Line B3151).....	20.29	3.81
<i>For Work In Restricted Working Space, Add</i>	3.81	
23 05 29 00-0854 EA 4" Outside Diameter, 18 Gauge Insulation Protection Shield, 12" Length (Cooper B-Line B3151).....	22.14	3.90
<i>For Work In Restricted Working Space, Add</i>	3.91	
23 05 29 00-0855 EA 6" Outside Diameter, 18 Gauge Insulation Protection Shield, 12" Length (Cooper B-Line B3151).....	26.26	4.00
<i>For Work In Restricted Working Space, Add</i>	4.00	
23 05 29 00-0856 EA 8" Outside Diameter, 16 Gauge Insulation Protection Shield, 18" Length (Cooper B-Line B3151).....	30.00	4.09
<i>For Work In Restricted Working Space, Add</i>	4.09	
23 05 29 00-0857 EA 10" Outside Diameter, 16 Gauge Insulation Protection Shield, 18" Length (Cooper B-Line B3151).....	35.88	4.18
<i>For Work In Restricted Working Space, Add</i>	4.18	
23 05 29 00-0858 EA 12" Outside Diameter, 14 Gauge Insulation Protection Shield, 24" Length (Cooper B-Line B3151).....	44.96	4.22
<i>For Work In Restricted Working Space, Add</i>	4.23	
23 05 29 00-0859 EA 14" Outside Diameter, 14 Gauge Insulation Protection Shield, 24" Length (Cooper B-Line B3151).....	48.64	4.27
<i>For Work In Restricted Working Space, Add</i>	4.28	
23 05 29 00-0860 EA 16" Outside Diameter, 14 Gauge Insulation Protection Shield, 24" Length (Cooper B-Line B3151).....	65.42	4.32
<i>For Work In Restricted Working Space, Add</i>	4.32	
23 05 29 00-0861 EA 18" Outside Diameter, 14 Gauge Insulation Protection Shield, 24" Length (Cooper B-Line B3151).....	73.02	4.36
<i>For Work In Restricted Working Space, Add</i>	4.37	
23 05 29 00-0862 EA 20" Outside Diameter, 12 Gauge Insulation Protection Shield, 24" Length (Cooper B-Line B3151).....	131.84	4.41
<i>For Work In Restricted Working Space, Add</i>	4.41	
23 05 29 00-0863 EA 24" Outside Diameter, 12 Gauge Insulation Protection Shield, 24" Length (Cooper B-Line B3151).....	143.03	4.50
<i>For Work In Restricted Working Space, Add</i>	4.50	
23 05 29 00-0864 EA 30" Outside Diameter, 12 Gauge Insulation Protection Shield, 24" Length (Cooper B-Line B3151).....	172.04	4.60
<i>For Work In Restricted Working Space, Add</i>	4.59	
23 05 29 00-0865 Insulation Protection Shield (Cooper B-Line B3154) (23 05 29 00-0848)		
23 05 29 00-0866 EA 1-1/2" Outside Diameter, 18 Gauge Insulation Protection Shield, 8" Length (Cooper B-Line B3154).....	17.02	3.68
<i>For Work In Restricted Working Space, Add</i>	3.68	
23 05 29 00-0867 EA 2" Outside Diameter, 18 Gauge Insulation Protection Shield, 8" Length (Cooper B-Line B3154).....	17.25	3.72
<i>For Work In Restricted Working Space, Add</i>	3.72	
23 05 29 00-0868 EA 2-1/2" Outside Diameter, 18 Gauge Insulation Protection Shield, 8" Length (Cooper B-Line B3154).....	17.60	3.77
<i>For Work In Restricted Working Space, Add</i>	3.77	
23 05 29 00-0869 EA 3" Outside Diameter, 18 Gauge Insulation Protection Shield, 8" Length (Cooper B-Line B3154).....	18.21	3.81
<i>For Work In Restricted Working Space, Add</i>	3.81	
23 05 29 00-0870 EA 4" Outside Diameter, 18 Gauge Insulation Protection Shield, 8" Length (Cooper B-Line B3154).....	19.64	3.90
<i>For Work In Restricted Working Space, Add</i>	3.91	
23 05 29 00-0871 EA 6" Outside Diameter, 18 Gauge Insulation Protection Shield, 8" Length (Cooper B-Line B3154).....	22.70	4.00
<i>For Work In Restricted Working Space, Add</i>	4.00	
23 05 29 00-0872 EA 8" Outside Diameter, 16 Gauge Insulation Protection Shield, 12" Length (Cooper B-Line B3154).....	24.20	4.09
<i>For Work In Restricted Working Space, Add</i>	4.09	
23 05 29 00-0873 EA 10" Outside Diameter, 16 Gauge Insulation Protection Shield, 12" Length (Cooper B-Line B3154).....	29.85	4.18
<i>For Work In Restricted Working Space, Add</i>	4.18	
23 05 29 00-0874 EA 12" Outside Diameter, 14 Gauge Insulation Protection Shield, 12" Length (Cooper B-Line B3154).....	35.05	4.22
<i>For Work In Restricted Working Space, Add</i>	4.23	
23 05 29 00-0875 Pipe Covering Protection Saddle (23 05 29 00-0847)		
Note: Sizes are pipe sizes.		
23 05 29 00-0876 Saddle, For 1" Insulation (Cooper B-Line B3160) (23 05 29 00-0875)		
23 05 29 00-0877 EA 3/4" Pipe Saddle, For 1" Insulation (Cooper B-Line B3160).....	28.29	5.05
<i>For Work In Restricted Working Space, Add</i>	5.05	
23 05 29 00-0878 EA 1" Pipe Saddle, For 1" Insulation (Cooper B-Line B3160).....	28.44	5.10
<i>For Work In Restricted Working Space, Add</i>	5.09	
23 05 29 00-0879 EA 1-1/4" Pipe Saddle, For 1" Insulation (Cooper B-Line B3160).....	28.58	5.14
<i>For Work In Restricted Working Space, Add</i>	5.14	
23 05 29 00-0880 EA 1-1/2" Pipe Saddle, For 1" Insulation (Cooper B-Line B3160).....	29.83	5.22
<i>For Work In Restricted Working Space, Add</i>	5.22	
23 05 29 00-0881 EA 2" Pipe Saddle, For 1" Insulation (Cooper B-Line B3160).....	29.98	5.26
<i>For Work In Restricted Working Space, Add</i>	5.27	
23 05 29 00-0882 EA 2-1/2" Pipe Saddle, For 1" Insulation (Cooper B-Line B3160).....	30.88	5.35
<i>For Work In Restricted Working Space, Add</i>	5.35	
23 05 29 00-0883 EA 3" Pipe Saddle, For 1" Insulation (Cooper B-Line B3160).....	33.88	5.43
<i>For Work In Restricted Working Space, Add</i>	5.44	
23 05 29 00-0884 EA 4" Pipe Saddle, For 1" Insulation (Cooper B-Line B3160).....	37.50	5.53
<i>For Work In Restricted Working Space, Add</i>	5.52	
23 05 29 00-0885 EA 6" Pipe Saddle, For 1" Insulation (Cooper B-Line B3160).....	41.69	5.69
<i>For Work In Restricted Working Space, Add</i>	5.69	
23 05 29 00-0886 EA 8" Pipe Saddle, For 1" Insulation (Cooper B-Line B3160).....	49.81	5.90
<i>For Work In Restricted Working Space, Add</i>	5.91	
23 05 29 00-0887 EA 10" Pipe Saddle, For 1" Insulation (Cooper B-Line B3160).....	55.12	5.99
<i>For Work In Restricted Working Space, Add</i>	5.99	
23 05 29 00-0888 EA 12" Pipe Saddle, For 1" Insulation (Cooper B-Line B3160).....	64.45	5.99
<i>For Work In Restricted Working Space, Add</i>	6.12	
23 05 29 00-0889 EA 14" Pipe Saddle, For 1" Insulation (Cooper B-Line B3160).....	69.92	6.21
<i>For Work In Restricted Working Space, Add</i>	6.21	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0890 Saddle, For 1-1/2" Insulation (Cooper B-Line B3161) <small>(23 05 29 00-0875)</small>		
23 05 29 00-0891 EA 3/4" Pipe Saddle, For 1-1/2" Insulation (Cooper B-Line B3161)	31.34	5.05
<i>For Work In Restricted Working Space, Add</i>	5.05	
23 05 29 00-0892 EA 1" Pipe Saddle, For 1-1/2" Insulation (Cooper B-Line B3161)	31.49	5.10
<i>For Work In Restricted Working Space, Add</i>	5.09	
23 05 29 00-0893 EA 1-1/4" Pipe Saddle, For 1-1/2" Insulation (Cooper B-Line B3161)	31.63	5.14
<i>For Work In Restricted Working Space, Add</i>	5.14	
23 05 29 00-0894 EA 1-1/2" Pipe Saddle, For 1-1/2" Insulation (Cooper B-Line B3161)	32.67	5.22
<i>For Work In Restricted Working Space, Add</i>	5.22	
23 05 29 00-0895 EA 2" Pipe Saddle, For 1-1/2" Insulation (Cooper B-Line B3161)	34.94	5.26
<i>For Work In Restricted Working Space, Add</i>	5.27	
23 05 29 00-0896 EA 2-1/2" Pipe Saddle, For 1-1/2" Insulation (Cooper B-Line B3161)	37.34	5.35
<i>For Work In Restricted Working Space, Add</i>	5.35	
23 05 29 00-0897 EA 3" Pipe Saddle, For 1-1/2" Insulation (Cooper B-Line B3161)	37.98	5.43
<i>For Work In Restricted Working Space, Add</i>	5.44	
23 05 29 00-0898 EA 4" Pipe Saddle, For 1-1/2" Insulation (Cooper B-Line B3161)	42.54	5.43
<i>For Work In Restricted Working Space, Add</i>	5.52	
23 05 29 00-0899 EA 6" Pipe Saddle, For 1-1/2" Insulation (Cooper B-Line B3161)	47.39	5.69
<i>For Work In Restricted Working Space, Add</i>	5.69	
23 05 29 00-0900 EA 8" Pipe Saddle, For 1-1/2" Insulation (Cooper B-Line B3161)	55.40	5.90
<i>For Work In Restricted Working Space, Add</i>	5.91	
23 05 29 00-0901 EA 10" Pipe Saddle, For 1-1/2" Insulation (Cooper B-Line B3161)	61.73	5.99
<i>For Work In Restricted Working Space, Add</i>	5.99	
23 05 29 00-0902 EA 12" Pipe Saddle, For 1-1/2" Insulation (Cooper B-Line B3161)	72.60	6.12
<i>For Work In Restricted Working Space, Add</i>	6.12	
23 05 29 00-0903 EA 14" Pipe Saddle, For 1-1/2" Insulation (Cooper B-Line B3161)	79.07	6.21
<i>For Work In Restricted Working Space, Add</i>	6.21	
23 05 29 00-0904 Saddle, For 2" Insulation (Cooper B-Line B3162) <small>(23 05 29 00-0875)</small>		
23 05 29 00-0905 EA 3/4" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162)	33.45	5.31
<i>For Work In Restricted Working Space, Add</i>	5.31	
23 05 29 00-0906 EA 1" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162)	33.59	5.35
<i>For Work In Restricted Working Space, Add</i>	5.35	
23 05 29 00-0907 EA 1-1/4" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162)	35.17	5.39
<i>For Work In Restricted Working Space, Add</i>	5.39	
23 05 29 00-0908 EA 1-1/2" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162)	36.17	5.48
<i>For Work In Restricted Working Space, Add</i>	5.48	
23 05 29 00-0909 EA 2" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162)	37.03	5.53
<i>For Work In Restricted Working Space, Add</i>	5.52	
23 05 29 00-0910 EA 2-1/2" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162)	37.32	5.62
<i>For Work In Restricted Working Space, Add</i>	5.61	
23 05 29 00-0911 EA 3" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162)	39.24	5.71
<i>For Work In Restricted Working Space, Add</i>	5.69	
23 05 29 00-0912 EA 4" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162)	41.17	5.79
<i>For Work In Restricted Working Space, Add</i>	5.78	
23 05 29 00-0913 EA 6" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162)	51.31	5.97
<i>For Work In Restricted Working Space, Add</i>	5.99	
23 05 29 00-0914 EA 8" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162)	57.67	6.21
<i>For Work In Restricted Working Space, Add</i>	6.21	
23 05 29 00-0915 EA 10" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162)	60.36	6.29
<i>For Work In Restricted Working Space, Add</i>	6.29	
23 05 29 00-0916 EA 12" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162)	79.70	6.42
<i>For Work In Restricted Working Space, Add</i>	6.42	
23 05 29 00-0917 EA 14" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162)	87.75	6.52
<i>For Work In Restricted Working Space, Add</i>	6.51	
23 05 29 00-0918 EA 16" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162)	96.09	6.68
<i>For Work In Restricted Working Space, Add</i>	6.68	
23 05 29 00-0919 EA 18" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162)	104.42	6.85
<i>For Work In Restricted Working Space, Add</i>	6.85	
23 05 29 00-0920 EA 20" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162)	114.11	7.02
<i>For Work In Restricted Working Space, Add</i>	7.02	
23 05 29 00-0921 EA 24" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162)	129.96	7.20
<i>For Work In Restricted Working Space, Add</i>	7.19	
23 05 29 00-0922 Saddle, For 2-1/2" Insulation (Cooper B-Line B3163) <small>(23 05 29 00-0875)</small>		
23 05 29 00-0923 EA 1-1/4" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163)	37.13	5.53
<i>For Work In Restricted Working Space, Add</i>	5.52	
23 05 29 00-0924 EA 1-1/2" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163)	39.02	5.61
<i>For Work In Restricted Working Space, Add</i>	5.61	
23 05 29 00-0925 EA 2" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163)	39.96	5.67
<i>For Work In Restricted Working Space, Add</i>	5.65	
23 05 29 00-0926 EA 2-1/2" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163)	41.04	5.75
<i>For Work In Restricted Working Space, Add</i>	5.74	
23 05 29 00-0927 EA 3" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163)	41.47	5.85
<i>For Work In Restricted Working Space, Add</i>	5.87	
23 05 29 00-0928 EA 4" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163)	47.50	5.93
<i>For Work In Restricted Working Space, Add</i>	5.95	
23 05 29 00-0929 EA 6" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163)	53.81	6.12
<i>For Work In Restricted Working Space, Add</i>	6.12	
23 05 29 00-0930 EA 8" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163)	62.03	6.35
<i>For Work In Restricted Working Space, Add</i>	6.34	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 29 Hangers and Supports for HVAC Piping and Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0931 EA 10" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163) <i>For Work In Restricted Working Space, Add</i>	66.22 6.47	6.45
23 05 29 00-0932 EA 12" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163) <i>For Work In Restricted Working Space, Add</i>	81.76 6.59	6.57
23 05 29 00-0933 EA 14" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163) <i>For Work In Restricted Working Space, Add</i>	96.16 6.68	6.68
23 05 29 00-0934 EA 16" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163) <i>For Work In Restricted Working Space, Add</i>	110.83 6.85	6.84
23 05 29 00-0935 EA 18" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163) <i>For Work In Restricted Working Space, Add</i>	117.53 7.02	7.00
23 05 29 00-0936 EA 20" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163) <i>For Work In Restricted Working Space, Add</i>	124.97 7.19	7.20
23 05 29 00-0937 EA 24" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163) <i>For Work In Restricted Working Space, Add</i>	132.41 7.36	7.36
23 05 29 00-0938 Saddle, For 3" Insulation (Cooper B-Line B3164) (23 05 29 00-0875)		
23 05 29 00-0939 EA 2" Pipe Saddle, For 3" Insulation (Cooper B-Line B3164) <i>For Work In Restricted Working Space, Add</i>	41.28 5.78	5.79
23 05 29 00-0940 EA 2-1/2" Pipe Saddle, For 3" Insulation (Cooper B-Line B3164) <i>For Work In Restricted Working Space, Add</i>	44.74 5.91	5.89
23 05 29 00-0941 EA 3" Pipe Saddle, For 3" Insulation (Cooper B-Line B3164) <i>For Work In Restricted Working Space, Add</i>	46.54 5.99	5.97
23 05 29 00-0942 EA 4" Pipe Saddle, For 3" Insulation (Cooper B-Line B3164) <i>For Work In Restricted Working Space, Add</i>	48.33 6.08	6.08
23 05 29 00-0943 EA 6" Pipe Saddle, For 3" Insulation (Cooper B-Line B3164) <i>For Work In Restricted Working Space, Add</i>	54.96 6.25	6.26
23 05 29 00-0944 EA 8" Pipe Saddle, For 3" Insulation (Cooper B-Line B3164) <i>For Work In Restricted Working Space, Add</i>	67.94 6.51	6.49
23 05 29 00-0945 EA 10" Pipe Saddle, For 3" Insulation (Cooper B-Line B3164) <i>For Work In Restricted Working Space, Add</i>	73.28 6.59	6.59
23 05 29 00-0946 EA 12" Pipe Saddle, For 3" Insulation (Cooper B-Line B3164) <i>For Work In Restricted Working Space, Add</i>	94.00 6.72	6.74
23 05 29 00-0947 EA 14" Pipe Saddle, For 3" Insulation (Cooper B-Line B3164) <i>For Work In Restricted Working Space, Add</i>	111.38 6.85	6.84
23 05 29 00-0948 EA 16" Pipe Saddle, For 3" Insulation (Cooper B-Line B3164) <i>For Work In Restricted Working Space, Add</i>	128.75 6.98	6.99
23 05 29 00-0949 EA 18" Pipe Saddle, For 3" Insulation (Cooper B-Line B3164) <i>For Work In Restricted Working Space, Add</i>	131.29 7.19	7.17
23 05 29 00-0950 EA 20" Pipe Saddle, For 3" Insulation (Cooper B-Line B3164) <i>For Work In Restricted Working Space, Add</i>	133.68 7.36	7.35
23 05 29 00-0951 EA 24" Pipe Saddle, For 3" Insulation (Cooper B-Line B3164) <i>For Work In Restricted Working Space, Add</i>	168.38 7.54	7.53
23 05 29 00-0952 Saddle, For 4" Insulation (Cooper B-Line B3165) (23 05 29 00-0875)		
23 05 29 00-0953 EA 2" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165) <i>For Work In Restricted Working Space, Add</i>	46.10 5.91	5.92
23 05 29 00-0954 EA 2-1/2" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165) <i>For Work In Restricted Working Space, Add</i>	50.17 6.04	6.02
23 05 29 00-0955 EA 3" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165) <i>For Work In Restricted Working Space, Add</i>	52.28 6.12	6.12
23 05 29 00-0956 EA 4" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165) <i>For Work In Restricted Working Space, Add</i>	54.47 6.21	6.21
23 05 29 00-0957 EA 6" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165) <i>For Work In Restricted Working Space, Add</i>	65.65 6.42	6.40
23 05 29 00-0958 EA 8" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165) <i>For Work In Restricted Working Space, Add</i>	76.83 6.64	6.65
23 05 29 00-0959 EA 10" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165) <i>For Work In Restricted Working Space, Add</i>	79.35 6.76	6.75
23 05 29 00-0960 EA 12" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165) <i>For Work In Restricted Working Space, Add</i>	100.21 6.89	6.89
23 05 29 00-0961 EA 14" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165) <i>For Work In Restricted Working Space, Add</i>	120.66 6.98	6.98
23 05 29 00-0962 EA 16" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165) <i>For Work In Restricted Working Space, Add</i>	141.41 7.15	7.16
23 05 29 00-0963 EA 18" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165) <i>For Work In Restricted Working Space, Add</i>	171.95 7.32	7.34
23 05 29 00-0964 EA 20" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165) <i>For Work In Restricted Working Space, Add</i>	202.39 7.54	7.52
23 05 29 00-0965 EA 24" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165) <i>For Work In Restricted Working Space, Add</i>	216.26 7.71	7.70
23 05 29 00-0966 EA 30" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165) <i>For Work In Restricted Working Space, Add</i>	227.45 7.92	7.91
23 05 29 00-0967 EA 36" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165) <i>For Work In Restricted Working Space, Add</i>	235.75 8.09	8.10
23 05 29 00-0968 Adjustable Pipe Saddle Support (Cooper B-Line B3096) (23 05 29 00-0847)		
23 05 29 00-0969 EA 2" Adjustable Pipe Saddle Support (Cooper B-Line B3096)	102.66	19.14
23 05 29 00-0970 EA 3" Adjustable Pipe Saddle Support (Cooper B-Line B3096)	109.65	22.21
23 05 29 00-0971 EA 4" Adjustable Pipe Saddle Support (Cooper B-Line B3096)	132.70	25.28
23 05 29 00-0972 EA 5" Adjustable Pipe Saddle Support (Cooper B-Line B3096)	138.86	27.57



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
				23 05 29 00-0973 EA 6" Adjustable Pipe Saddle Support (Cooper B-Line B3096)	154.11	30.64
				23 05 29 00-0974 EA 8" Adjustable Pipe Saddle Support (Cooper B-Line B3096)	177.03	38.29
				23 05 29 00-0975 EA 10" Adjustable Pipe Saddle Support (Cooper B-Line B3096)	232.02	51.31
				23 05 29 00-0976 EA 12" Adjustable Pipe Saddle Support (Cooper B-Line B3096)	293.84	76.59
23 05 29 00-0977				Pipe Stanchion Support (Cooper B-Line B3090) <small>(23 05 29 00-0847)</small>		
				23 05 29 00-0978 EA 2-1/2" Pipe Stanchion Support With U-Bolt (Cooper B-Line B3090)	124.66	19.14
				23 05 29 00-0979 EA 3" Pipe Stanchion Support With U-Bolt (Cooper B-Line B3090)	130.14	22.21
				23 05 29 00-0980 EA 3-1/2" Pipe Stanchion Support With U-Bolt (Cooper B-Line B3090)	139.59	23.74
				23 05 29 00-0981 EA 4" Pipe Stanchion Support With U-Bolt (Cooper B-Line B3090)	143.17	25.28
				23 05 29 00-0982 EA 5" Pipe Stanchion Support With U-Bolt (Cooper B-Line B3090)	150.91	27.57
				23 05 29 00-0983 EA 6" Pipe Stanchion Support With U-Bolt (Cooper B-Line B3090)	160.75	30.64
				23 05 29 00-0984 EA 8" Pipe Stanchion Support With U-Bolt (Cooper B-Line B3090)	203.80	38.29
				23 05 29 00-0985 EA 10" Pipe Stanchion Support With U-Bolt (Cooper B-Line B3090)	274.61	51.31
				23 05 29 00-0986 EA 12" Pipe Stanchion Support With U-Bolt (Cooper B-Line B3090)	364.35	76.59
23 05 29 00-0987				Pipe Saddle Support (Cooper B-Line B3095) <small>(23 05 29 00-0847)</small>		
				23 05 29 00-0988 EA 2-1/2" Pipe Saddle Support (Cooper B-Line B3095)	68.90	19.14
				23 05 29 00-0989 EA 3" Pipe Saddle Support (Cooper B-Line B3095)	74.38	22.21
				23 05 29 00-0990 EA 3-1/2" Pipe Saddle Support (Cooper B-Line B3095)	107.26	23.74
				23 05 29 00-0991 EA 4" Pipe Saddle Support (Cooper B-Line B3095)	110.84	25.28
				23 05 29 00-0992 EA 5" Pipe Saddle Support (Cooper B-Line B3095)	121.60	27.57
				23 05 29 00-0993 EA 6" Pipe Saddle Support (Cooper B-Line B3095)	134.84	30.64
				23 05 29 00-0994 EA 8" Pipe Saddle Support (Cooper B-Line B3095)	156.32	38.29
				23 05 29 00-0995 EA 10" Pipe Saddle Support (Cooper B-Line B3095)	185.73	51.31
				23 05 29 00-0996 EA 12" Pipe Saddle Support (Cooper B-Line B3095)	240.99	76.59
23 05 29 00-0997				360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate <small>(23 05 29 00-0847)</small>		
				<small>Note: Insert is for use as isolated protective insulation at hangers.</small>		
23 05 29 00-0998				1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate <small>(23 05 29 00-0997)</small>		
				23 05 29 00-0999 EA 1/2" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	20.80	9.46
				23 05 29 00-1000 EA 3/4" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	21.10	9.46
				23 05 29 00-1001 EA 1" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	21.18	9.46
				23 05 29 00-1002 EA 1-1/4" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	21.48	9.46
				23 05 29 00-1003 EA 1-1/2" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	22.96	10.04
				23 05 29 00-1004 EA 2" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	23.95	10.34
				23 05 29 00-1005 EA 2-1/2" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	25.07	10.78
				23 05 29 00-1006 EA 3" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	26.31	11.21
				23 05 29 00-1007 EA 4" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	28.35	11.64
				23 05 29 00-1008 EA 6" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	28.99	10.04
				23 05 29 00-1009 EA 8" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	43.59	13.10
				23 05 29 00-1010 EA 10" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	51.49	15.43
				23 05 29 00-1011 EA 12" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	58.86	17.91
				23 05 29 00-1012 EA 14" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	65.48	18.49
23 05 29 00-1013				1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate <small>(23 05 29 00-0997)</small>		
				23 05 29 00-1014 EA 1/2" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	17.45	7.14
				23 05 29 00-1015 EA 3/4" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	18.94	7.14
				23 05 29 00-1016 EA 1" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	19.34	7.28
				23 05 29 00-1017 EA 1-1/4" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	19.93	7.43
				23 05 29 00-1018 EA 1-1/2" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	20.49	7.43
				23 05 29 00-1019 EA 2" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	21.47	7.72
				23 05 29 00-1020 EA 2-1/2" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	22.65	8.00
				23 05 29 00-1021 EA 3" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	23.27	8.15
				23 05 29 00-1022 EA 4" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	25.53	8.88
				23 05 29 00-1023 EA 6" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	39.02	15.29
				23 05 29 00-1024 EA 8" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	34.21	11.50
				23 05 29 00-1025 EA 10" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	41.27	13.54
				23 05 29 00-1026 EA 12" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	46.98	15.57
				23 05 29 00-1027 EA 14" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	55.61	18.78
23 05 29 00-1028				2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate <small>(23 05 29 00-0997)</small>		
				23 05 29 00-1029 EA 1/2" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	23.44	8.15
				23 05 29 00-1030 EA 3/4" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	23.68	8.15
				23 05 29 00-1031 EA 1" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	24.41	8.30
				23 05 29 00-1032 EA 1-1/4" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	25.05	8.45
				23 05 29 00-1033 EA 1-1/2" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	25.72	8.59
				23 05 29 00-1034 EA 2" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	26.70	8.88
				23 05 29 00-1035 EA 2-1/2" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	28.05	9.17
				23 05 29 00-1036 EA 3" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	29.33	9.46

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 29 Hangers and Supports for HVAC Piping and Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-1037 EA 4" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	32.08	10.04
23 05 29 00-1038 EA 6" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	36.66	11.36
23 05 29 00-1039 EA 8" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	57.82	19.37
23 05 29 00-1040 EA 10" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	63.79	22.42
23 05 29 00-1041 EA 12" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	73.89	26.50
23 05 29 00-1042 EA 14" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	82.87	29.70
23 05 29 00-1043 EA 16" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	92.69	33.49
23 05 29 00-1044 EA 18" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	106.65	39.31
23 05 29 00-1045 EA 20" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	118.44	43.68
23 05 29 00-1046 EA 24" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	133.88	49.51
23 05 29 00-1047 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate (23 05 29 00-0997)		
23 05 29 00-1048 EA 1/2" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	26.88	9.46
23 05 29 00-1049 EA 3/4" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	27.15	9.46
23 05 29 00-1050 EA 1" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	28.05	9.61
23 05 29 00-1051 EA 1-1/4" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	28.70	9.75
23 05 29 00-1052 EA 1-1/2" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	29.36	9.75
23 05 29 00-1053 EA 2" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	30.56	10.20
23 05 29 00-1054 EA 2-1/2" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	32.10	10.49
23 05 29 00-1055 EA 3" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	33.56	10.92
23 05 29 00-1056 EA 4" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	36.68	11.50
23 05 29 00-1057 EA 6" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	41.96	13.10
23 05 29 00-1058 EA 8" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	53.75	14.56
23 05 29 00-1059 EA 10" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	63.73	16.74
23 05 29 00-1060 EA 12" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	73.84	20.82
23 05 29 00-1061 EA 14" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	82.86	22.86
23 05 29 00-1062 EA 16" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	99.33	29.12
23 05 29 00-1063 EA 18" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	106.23	30.58
23 05 29 00-1064 EA 20" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	120.76	34.95
23 05 29 00-1065 EA 24" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	142.93	42.23
23 05 29 00-1066 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate (23 05 29 00-0997)		
23 05 29 00-1067 EA 1/2" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	52.88	9.75
23 05 29 00-1068 EA 3/4" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	62.77	10.20
23 05 29 00-1069 EA 1" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	65.11	10.20
23 05 29 00-1070 EA 1-1/4" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	66.65	10.49
23 05 29 00-1071 EA 1-1/2" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	68.45	10.78
23 05 29 00-1072 EA 2" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	70.46	10.92
23 05 29 00-1073 EA 2-1/2" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	74.12	11.21
23 05 29 00-1074 EA 3" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	77.35	11.94
23 05 29 00-1075 EA 4" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	85.08	12.38
23 05 29 00-1076 EA 6" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	97.31	15.14
23 05 29 00-1077 EA 8" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	124.91	16.60
23 05 29 00-1078 EA 10" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	148.40	17.48
23 05 29 00-1079 EA 12" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	170.82	22.57
23 05 29 00-1080 EA 14" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	192.09	24.02
23 05 29 00-1081 EA 16" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	230.95	32.03
23 05 29 00-1082 EA 18" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	248.58	34.95
23 05 29 00-1083 EA 20" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	281.42	37.86
23 05 29 00-1084 EA 24" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	330.71	46.59
23 05 29 00-1085 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate (23 05 29 00-0997)		
23 05 29 00-1086 EA 1/2" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	26.88	9.46
23 05 29 00-1087 EA 3/4" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	32.50	11.50
23 05 29 00-1088 EA 1" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	33.71	11.50
23 05 29 00-1089 EA 1-1/4" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	34.42	11.64
23 05 29 00-1090 EA 1-1/2" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	35.34	11.79
23 05 29 00-1091 EA 2" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	36.61	12.23
23 05 29 00-1092 EA 2-1/2" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	38.48	12.67
23 05 29 00-1093 EA 3" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	40.13	13.10
23 05 29 00-1094 EA 4" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	44.04	13.84
23 05 29 00-1095 EA 6" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	50.33	15.73
23 05 29 00-1096 EA 8" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	64.47	17.48
23 05 29 00-1097 EA 10" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	76.48	20.09
23 05 29 00-1098 EA 12" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	88.60	25.05
23 05 29 00-1099 EA 14" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	99.44	27.37
23 05 29 00-1100 EA 16" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	119.21	34.95
23 05 29 00-1101 EA 18" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	127.48	36.69
23 05 29 00-1102 EA 20" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	145.00	41.94
23 05 29 00-1103 EA 24" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	171.52	50.67



	MINOR CSI UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-1104		4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate <small>(23 05 29 00-0997)</small>		
23 05 29 00-1105	EA	1/2" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	36.22	12.81
23 05 29 00-1106	EA	3/4" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	36.60	12.81
23 05 29 00-1107	EA	1" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	37.84	12.96
23 05 29 00-1108	EA	1-1/4" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	38.81	13.10
23 05 29 00-1109	EA	1-1/2" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	39.49	13.10
23 05 29 00-1110	EA	2" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	41.73	13.98
23 05 29 00-1111	EA	2-1/2" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	43.27	14.13
23 05 29 00-1112	EA	3" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	45.30	14.71
23 05 29 00-1113	EA	4" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	49.51	15.57
23 05 29 00-1114	EA	6" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	56.59	17.62
23 05 29 00-1115	EA	8" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	71.43	19.07
23 05 29 00-1116	EA	10" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	86.06	22.71
23 05 29 00-1117	EA	12" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	99.70	28.24
23 05 29 00-1118	EA	14" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	111.92	30.73
23 05 29 00-1119	EA	16" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	134.19	39.31
23 05 29 00-1120	EA	18" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	143.35	41.20
23 05 29 00-1121	EA	20" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	161.50	47.18
23 05 29 00-1122	EA	24" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	192.99	57.08
23 05 29 00-1123	EA	26" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	221.21	67.13
23 05 29 00-1124	EA	28" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	253.15	79.21
23 05 29 00-1125	EA	30" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	288.43	93.62
23 05 29 00-1126	EA	42" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	418.10	144.59
23 05 29 00-1127	EA	44" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	452.01	159.15
23 05 29 00-1128	EA	46" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	482.77	171.82
23 05 29 00-1129		Equipment Housekeeping Pads <small>(23 05 29)</small> See CSI section 03 31 13 00-0089 for Concrete Equipment Pads.		
23 05 29 00-1130		Molded Plastic Condenser Pad <small>(23 05 29 00-1129)</small>		
23 05 29 00-1131	EA	30" Round Molded Plastic Pad.....	151.71	19.14
23 05 29 00-1132	EA	30" Octagon Molded Plastic Pad.....	159.17	19.14
23 05 29 00-1133	EA	30" x 30" Molded Plastic Pad.....	151.71	19.14
23 05 29 00-1134	EA	36" x 36" Molded Plastic Pad.....	196.41	19.14
23 05 29 00-1135	EA	36" x 48" Molded Plastic Pad.....	280.05	19.14
23 05 29 00-1136		Inertia Base <small>(23 05 29 00-1129)</small> Note: Includes spring isolators.		
23 05 29 00-1137	EA	Up To 12 SF Inertia Base, 8" Thick With Spring Base.....	3,993.75	
23 05 29 00-1138	EA	>12 To 16 SF Inertia Base, 8" Thick With Spring Base.....	4,829.95	
23 05 29 00-1139	EA	>16 To 20 SF Inertia Base, 8" Thick With Spring Base.....	5,532.66	
23 05 29 00-1140	EA	>20 To 24 SF Inertia Base, 8" Thick With Spring Base.....	6,324.37	
23 05 29 00-1141		Hanger Assemblies <small>(23 05 29)</small> Note: Includes hanger, rod, nuts, washers, clamps, upper attachment, etc. Not for use where detail is available.		
23 05 29 00-1142	EA	1/2" Standard Duty Clevis Pipe Hanger Assembly.....	65.70	23.81
		Note: Includes hanger, rod, nuts, washers and clamp.		
		<i>For Work In Restricted Working Space, Add</i>	15.32	
23 05 29 00-1143	EA	3/4" Standard Duty Clevis Pipe Hanger Assembly.....	68.53	25.22
		Note: Includes hanger, rod, nuts, washers and clamp.		
		<i>For Work In Restricted Working Space, Add</i>	16.17	
23 05 29 00-1144	EA	1" Standard Duty Clevis Pipe Hanger Assembly.....	70.72	26.68
		Note: Includes hanger, rod, nuts, washers and clamp.		
		<i>For Work In Restricted Working Space, Add</i>	16.81	
23 05 29 00-1145	EA	1-1/4" Standard Duty Clevis Pipe Hanger Assembly.....	71.86	26.72
		Note: Includes hanger, rod, nuts, washers and clamp.		
		<i>For Work In Restricted Working Space, Add</i>	17.06	
23 05 29 00-1146	EA	1-1/2" Standard Duty Clevis Pipe Hanger Assembly.....	72.11	26.72
		Note: Includes hanger, rod, nuts, washers and clamp.		
		<i>For Work In Restricted Working Space, Add</i>	17.06	
23 05 29 00-1147	EA	2" Standard Duty Clevis Pipe Hanger Assembly.....	73.43	26.94
		Note: Includes hanger, rod, nuts, washers and clamp.		
		<i>For Work In Restricted Working Space, Add</i>	17.31	
23 05 29 00-1148	EA	2-1/2" Standard Duty Clevis Pipe Hanger Assembly.....	79.50	26.24
		Note: Includes hanger, rod, nuts, washers and clamp.		
		<i>For Work In Restricted Working Space, Add</i>	16.03	
23 05 29 00-1149	EA	3" Standard Duty Clevis Pipe Hanger Assembly.....	81.60	26.99
		Note: Includes hanger, rod, nuts, washers and clamp.		
		<i>For Work In Restricted Working Space, Add</i>	16.28	
23 05 29 00-1150	EA	4" Standard Duty Clevis Pipe Hanger Assembly.....	99.00	30.48
		Note: Includes hanger, rod, nuts, washers and clamp.		
		<i>For Work In Restricted Working Space, Add</i>	17.98	
23 05 29 00-1151	EA	6" Standard Duty Clevis Pipe Hanger Assembly.....	147.00	39.38
		Note: Includes hanger, rod, nuts, washers and clamp.		
		<i>For Work In Restricted Working Space, Add</i>	23.62	
23 05 29 00-1152	EA	8" Standard Duty Clevis Pipe Hanger Assembly.....	167.90	45.68
		Note: Includes hanger, rod, nuts, washers and clamp.		
		<i>For Work In Restricted Working Space, Add</i>	27.41	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 29 Hangers and Supports for HVAC Piping and Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-1153 EA 10" Standard Duty Clevis Pipe Hanger Assembly..... Note: Includes hanger, rod, nuts, washers and clamp. For Work In Restricted Working Space, Add	228.56	58.03
23 05 29 00-1154 EA 12" Standard Duty Clevis Pipe Hanger Assembly..... Note: Includes hanger, rod, nuts, washers and clamp. For Work In Restricted Working Space, Add	248.76	62.44
	34.38	
	37.53	
23 05 29 00-1155 Steel Shapes For Hanger Devices (23 05 29)		
23 05 29 00-1156 Angle Iron For Hanger Devices (23 05 29 00-1155)		
23 05 29 00-1157 LF 1/2" x 1/2" x 1/8" Angle Iron For Hanger Devices	3.54	2.23
23 05 29 00-1158 LF 3/4" x 3/4" x 1/8" Angle Iron For Hanger Devices	4.61	2.78
23 05 29 00-1159 LF 1" x 1" x 1/8" Angle Iron For Hanger Devices	5.67	3.33
23 05 29 00-1160 LF 1-1/4" x 1-1/4" x 3/16" Angle Iron For Hanger Devices	7.80	4.14
23 05 29 00-1161 LF 1-1/2" x 1-1/2" x 3/16" Angle Iron For Hanger Devices	8.69	4.45
23 05 29 00-1162 LF 2" x 2" x 1/4" Angle Iron For Hanger Devices	11.56	4.99
23 05 29 00-1163 LF 2-1/2" x 2-1/2" x 1/4" Angle Iron For Hanger Devices	14.38	6.08
23 05 29 00-1164 LF 3" x 2" x 3/8" Angle Iron For Hanger Devices	18.55	7.13
23 05 29 00-1165 LF 3" x 3" x 3/8" Angle Iron For Hanger Devices	22.14	8.34
23 05 29 00-1166 Channels For Hanger Devices (23 05 29 00-1155)		
23 05 29 00-1167 LF C2 x 1.78, 2" Wide Channels For Hanger Devices	9.27	4.93
23 05 29 00-1168 LF C3 x 4.1, 3" Wide Channels For Hanger Devices	15.76	7.10
23 05 29 00-1169 LF C4 x 5.4, 4" Wide Channels For Hanger Devices	19.66	8.53
23 05 29 00-1170 LF C5 x 6.7 - 5" Wide Channels For Hanger Devices	23.54	9.94
23 05 29 00-1171 LF C6 x 8.2 - 6" Wide Channels For Hanger Devices	28.49	11.94
23 05 29 00-1172 LF C7 x 9.8 - 7" Wide Channels For Hanger Devices	33.98	14.21
23 05 29 00-1173 LF C8 x 11.5 - 8" Wide Channels For Hanger Devices	38.49	15.64
23 05 29 00-1174 Structural Bar Tees For Hanger Devices (23 05 29 00-1155)		
23 05 29 00-1175 LF 3/4" x 3/4" x 1/8" Structural Bar Tee For Hanger Devices.....	10.45	6.94
23 05 29 00-1176 LF 1" x 1" x 1/8" Structural Bar Tee For Hanger Devices.....	12.58	8.21
23 05 29 00-1177 LF 1-1/2" x 1-1/2" x 1/4" Structural Bar Tee For Hanger Devices	17.81	9.47
23 05 29 00-1178 LF 2" x 2" x 1/4" Structural Bar Tee For Hanger Devices.....	22.95	12.63
23 05 29 00-1179 LF 2-1/2" x 2-1/2" x 3/8" Structural Bar Tee For Hanger Devices	31.28	15.15
23 05 29 00-1180 LF 3" x 3" x 3/8" Structural Bar Tee For Hanger Devices.....	39.26	19.58
23 05 29 00-1181 Structural Zees For Hanger Devices (23 05 29 00-1155)		
23 05 29 00-1182 LF 1-1/4" x 1-3/4" x 1-3/4" Structural Zee For Hanger Devices.....	17.83	9.47
23 05 29 00-1183 LF 2-1/16" x 3" x 2-1/16" Structural Zee For Hanger Devices	21.28	9.47
23 05 29 00-1184 LF 3-1/16" x 4" x 3-1/16" Structural Zee For Hanger Devices	31.04	9.47
23 05 29 00-1185 LF 3-1/4" x 5" x 3-1/4" Structural Zee For Hanger Devices	39.10	9.47
23 05 29 00-1186 LF 3-1/2" x 6" x 3-1/2" Structural Zee For Hanger Devices.....	47.48	9.47
23 05 29 00-1187 Junior I-beams For Hanger Devices (23 05 29 00-1155)		
23 05 29 00-1188 LF 3" I-beam (Junior) For Hanger Devices	22.34	13.89
23 05 29 00-1189 LF 4" I-beam (Junior) For Hanger Devices	25.63	15.15
23 05 29 00-1190 LF 5" I-beam (Junior) For Hanger Devices	29.51	16.42
23 05 29 00-1191 LF 6" I-beam (Junior) For Hanger Devices	32.25	18.31
23 05 29 00-1192 LF 7" I-beam (Junior) For Hanger Devices	38.17	19.58
23 05 29 00-1193 LF 8" I-beam (Junior) For Hanger Devices	41.30	20.84
23 05 48 Vibration and Seismic Controls for HVAC (23 05)		
23 05 48 13 Vibration Controls for HVAC (23 05 48)		
23 05 48 13-0001 Unhoused Stable Steel Spring Isolators (23 05 48 13)		
Note: Includes leveling adjustment, cast top, base plate and pad. For use with floor mounted equipment only.		
23 05 48 13-0002 EA 60 LB Unhoused Steel Spring Isolator	124.10	42.87
23 05 48 13-0003 EA 115 LB Unhoused Steel Spring Isolator	130.35	42.87
23 05 48 13-0004 EA 1,130 LB Unhoused Steel Spring Isolator	151.07	42.87
23 05 48 13-0005 Housed Stable Steel Spring Isolators (23 05 48 13)		
Note: Includes leveling adjustment, top plate, base plate and pad. For use with floor mounted equipment only. Mason Industries, Inc.		
23 05 48 13-0006 EA To 770 LB Housed Hot Dipped Galvanized Steel Spring Isolator, 1" Deflection	523.14	42.87
23 05 48 13-0007 EA To 1,040 LB Housed Hot Dipped Galvanized Steel Spring Isolator, 1" Deflection	590.54	42.87
23 05 48 13-0008 EA To 1,600 LB Housed Hot Dipped Galvanized Steel Spring Isolator, 1" Deflection	624.24	42.87
23 05 48 13-0009 EA To 2,250 LB Housed Hot Dipped Galvanized Steel Spring Isolator, 1" Deflection	759.03	42.87
23 05 48 13-0010 EA To 3,250 LB Housed Hot Dipped Galvanized Steel Spring Isolator, 1" Deflection	792.73	42.87
23 05 48 13-0011 EA To 730 LB Housed Hot Dipped Galvanized Steel Spring Isolator, 2" Deflection	582.12	42.87
23 05 48 13-0012 EA To 930 LB Housed Hot Dipped Galvanized Steel Spring Isolator, 2" Deflection	641.09	42.87
23 05 48 13-0013 EA To 1,440 LB Housed Hot Dipped Galvanized Steel Spring Isolator, 2" Deflection	683.21	42.87
23 05 48 13-0014 EA To 1,860 LB Housed Hot Dipped Galvanized Steel Spring Isolator, 2" Deflection	876.97	42.87



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 48 13-0015 EA To 2,880 LB Housed Hot Dipped Galvanized Steel Spring Isolator, 2" Deflection.....	952.79	42.87
23 05 48 13-0016 EA To 3,720 LB Housed Hot Dipped Galvanized Steel Spring Isolator, 2" Deflection.....	1,129.71	42.87
23 05 48 13-0017 Vibration Isolators (23 05 48 13)		
23 05 48 13-0018 Spring And Rubber Hanger For 1" Deflection (23 05 48 13-0017)		
23 05 48 13-0019 EA 50 To 500 LB Rated Spring And Rubber Hanger For Vibration Isolation With 3/4" Max Rod Size	146.86	27.57
23 05 48 13-0020 EA 600 To 1,000 LB Rated Spring And Rubber Hanger For Vibration Isolation With 7/8" Max Rod Size	292.55	30.64
23 05 48 13-0021 Rubber-In-Shear Isolator Hanger (23 05 48 13-0017)		
23 05 48 13-0022 EA 45-340 LB Rubber In Shear Hanger 0.38" Deflection With <1/2" Rod Size	86.22	22.98
23 05 48 13-0023 EA 130-700 LB Rubber In Shear Hanger 0.43" Deflection With <3/4" Rod Size	110.40	27.57
23 05 48 13-0024 Spring Hanger For 1" Deflection (23 05 48 13-0017)		
23 05 48 13-0025 EA 50 To 1,000 LB Rubber In Shear Hanger For 1" Deflection With <3/4" Rod Size.....	98.67	27.57
23 05 48 13-0026 Rubber-In-Shear Vibration Isolator (23 05 48 13-0017)		
23 05 48 13-0027 EA 45 To 340 LB Rubber In Shear Vibration Isolation With 0.38" Deflection	181.99	52.08
23 05 48 13-0028 EA 130 To 700 LB Rubber In Shear Vibration Isolation With 0.43" Deflection	237.29	52.08
23 05 48 13-0029 EA 550 To 1,920 LB Rubber In Shear Vibration Isolation With 0.48" Deflection	427.09	52.08
23 05 48 13-0030 Two-Piece Spring Type Vibration Isolator (23 05 48 13-0017)		
Note: For equipment support aluminum construction 1/2" adjusting and leveling bolt 1" deflection.		
23 05 48 13-0031 EA 50 To 1,000 LB Rated Load 2-Piece Isolator Spring Type Vibration Isolator.....	158.68	52.08
23 05 48 13-0032 EA >1,000 To 1,600 LB Rated Load 2-Piece Isolator Spring Type Vibration Isolator.....	162.80	52.08
23 05 48 13-0033 Open Double Spring Type Vibration Isolator (23 05 48 13-0017)		
Note: For equipment support 1" deflection neoprene pad and 5/8" stud bolt.		
23 05 48 13-0034 EA 150 To 450 LB Rated Load Open Isolator, Double Spring Type Vibration Isolator.....	114.68	26.04
23 05 48 13-0035 EA 500 To 1,000 LB Rated Load Open Isolator, Double Spring Type Vibration Isolator.....	114.68	26.04
23 05 48 13-0036 EA 1,100 To 1,600 LB Rated Load Open Isolator, Double Spring Type Vibration Isolator.....	128.42	26.04
23 05 48 13-0037 EA 1,700 To 2,400 LB Rated Load Open Isolator, Double Spring Type Vibration Isolator.....	128.42	26.04
23 05 48 13-0038 EA 2,500 To 3,400 LB Rated Load Open Isolator, Double Spring Type Vibration Isolator.....	190.56	26.04
23 05 48 13-0039 Isolation Pads (23 05 48 13-0017)		
23 05 48 13-0040 Laminated Neoprene And Cork Isolation Pad (23 05 48 13-0039)		
23 05 48 13-0041 EA 2" x 2", 1" Thick Laminated Neoprene And Cork Isolation Pad.....	8.98	3.83
23 05 48 13-0042 EA 3" x 3", 1" Thick Laminated Neoprene And Cork Isolation Pad.....	11.14	3.98
23 05 48 13-0043 EA 4" x 4", 1" Thick Laminated Neoprene And Cork Isolation Pad.....	13.65	4.13
23 05 48 13-0044 EA 12" x 12", 1" Thick Laminated Neoprene And Cork Isolation Pad.....	49.48	4.75
23 05 48 13-0045 EA 18" x 18", 1" Thick Laminated Neoprene And Cork Isolation Pad.....	93.23	5.36
23 05 48 13-0046 Neoprene And Steel Plate Isolation Pad (23 05 48 13-0039)		
23 05 48 13-0047 EA 6" x 4", 5/8" Thick Steel Plate And Ribbed Neoprene Isolation Pad	196.55	3.83
23 05 48 13-0048 EA 6" x 4", 7/8" Thick Steel Plate And Ribbed Neoprene Isolation Pad	217.47	3.83
23 05 48 13-0049 Neoprene Isolation Pad (23 05 48 13-0039)		
23 05 48 13-0050 EA 2" x 2", 3/8" Thick Ribbed Neoprene Isolation Pad.....	8.47	3.83
23 05 48 13-0051 EA 3" x 3", 3/8" Thick Ribbed Neoprene Isolation Pad.....	9.51	3.83
23 05 48 13-0052 EA 4" x 4", 3/8" Thick Ribbed Neoprene Isolation Pad.....	11.15	3.83
23 05 48 13-0053 EA 12" x 12", 3/8" Thick Ribbed Neoprene Isolation Pad.....	48.71	4.60
23 05 48 13-0054 EA 18" x 18", 3/8" Thick Ribbed Neoprene Isolation Pad.....	87.74	5.36
23 05 48 13-0055 Threaded Flexible Bronze Hose Connectors (23 05 48 13)		
Note: Includes hex threaded nipple ends.		
23 05 48 13-0056 EA 3/8" Diameter x 9" Flexible Hose Connection, For Vibration Isolation, Bronze Hose With Hex Threaded Nipple Ends	84.90	24.50
23 05 48 13-0057 EA 1/2" Diameter x 10" Flexible Hose Connection, For Vibration Isolation, Bronze Hose With Hex Threaded Nipple Ends	102.09	33.69
23 05 48 13-0058 EA 3/4" Diameter x 11" Flexible Hose Connection, For Vibration Isolation, Bronze Hose With Hex Threaded Nipple Ends	124.98	41.36
23 05 48 13-0059 EA 1" Diameter x 12" Flexible Hose Connection, For Vibration Isolation, Bronze Hose With Hex Threaded Nipple Ends	146.01	49.02
23 05 48 13-0060 EA 1-1/4" Diameter x 12" Flexible Hose Connection, For Vibration Isolation, Bronze Hose With Hex Threaded Nipple Ends	168.03	64.33
23 05 48 13-0061 EA 1-1/2" Diameter x 14" Flexible Hose Connection, For Vibration Isolation, Bronze Hose With Hex Threaded Nipple Ends	189.76	68.48
23 05 48 13-0062 EA 2" Diameter x 14" Flexible Hose Connection, For Vibration Isolation, Bronze Hose With Hex Threaded Nipple Ends	251.68	81.19

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 48 Vibration and Seismic Controls for HVAC**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 48 13-0063 EA 2-1/2" Diameter x 16" Flexible Hose Connection, For Vibration Isolation, Bronze Hose With Hex Threaded Nipple Ends	341.96	126.52
23 05 48 13-0064 Weld End Flexible Hose Connectors (23 05 48 13)		
23 05 48 13-0065 EA 1/2" Diameter x 10" Flexible Hose Connection, Weld Ends	292.78	87.92
23 05 48 13-0066 EA 3/4" Diameter x 10" Flexible Hose Connection, Weld Ends	340.29	96.50
23 05 48 13-0067 EA 1" Diameter x 10" Flexible Hose Connection, Weld Ends	381.38	102.17
23 05 48 13-0068 EA 1-1/4" Diameter x 11" Flexible Hose Connection, Weld Ends	427.16	116.42
23 05 48 13-0069 EA 1-1/2" Diameter x 12" Flexible Hose Connection, Weld Ends	482.48	125.61
23 05 48 13-0070 EA 2" Diameter x 14" Flexible Hose Connection, Weld Ends	607.51	163.44
23 05 48 13-0071 EA 2-1/2" Diameter x 16" Flexible Hose Connection, Weld Ends	893.10	183.82
23 05 48 13-0072 EA 3" Diameter x 16" Flexible Hose Connection, Weld Ends	1,095.60	206.79
23 05 48 13-0073 EA 4" Diameter x 18" Flexible Hose Connection, Weld Ends	1,523.57	306.36
23 05 48 13-0074 Flanged Flexible Hose Connectors (23 05 48 13)		
23 05 48 13-0075 Flanged Flexible Molded Rubber Hose Connectors (23 05 48 13-0074)		
Note: With helical wire reinforcement 150 PSI.		
23 05 48 13-0076 EA 1-1/2" Diameter x 12" Molded Rubber Connectors With Helical Wire Reinforcement 150 PSI	258.55	114.88
23 05 48 13-0077 EA 2" Diameter x 12" Molded Rubber Connectors With Helical Wire Reinforcement 150 PSI	281.03	127.60
23 05 48 13-0078 EA 2-1/2" Diameter x 12" Molded Rubber Connectors With Helical Wire Reinforcement 150 PSI	476.07	254.89
23 05 48 13-0079 EA 3" Diameter x 12" Molded Rubber Connectors With Helical Wire Reinforcement 150 PSI	671.03	379.12
23 05 48 13-0080 EA 4" Diameter x 12" Molded Rubber Connectors With Helical Wire Reinforcement 150 PSI	871.02	489.40
23 05 48 13-0081 EA 6" Diameter x 18" Molded Rubber Connectors With Helical Wire Reinforcement 150 PSI	1,061.91	508.90
23 05 48 13-0082 EA 8" Diameter x 24" Molded Rubber Connectors With Helical Wire Reinforcement 150 PSI	1,276.16	581.24
23 05 48 13-0083 EA 10" Diameter x 24" Molded Rubber Connectors With Helical Wire Reinforcement 150 PSI	1,628.26	691.70
23 05 48 13-0084 EA 12" Diameter x 24" Molded Rubber Connectors With Helical Wire Reinforcement 150 PSI	4,241.68	865.14
23 05 48 13-0085 Flanged Flexible Corrugated Stainless Steel Hose Connectors (23 05 48 13-0074)		
Note: With braided metal wire.		
23 05 48 13-0086 EA 1/2" Diameter x 12" Metal Wire Braid Connector, Over Corrugated Stainless Steel, 150 PSI For Vibration Isolation	207.27	104.46
23 05 48 13-0087 EA 1" Diameter x 12" Metal Wire Braid Connector, Over Corrugated Stainless Steel, 150 PSI For Vibration Isolation	218.09	143.68
23 05 48 13-0088 EA 1-1/2" Diameter x 12" Metal Wire Braid Connector, Over Corrugated Stainless Steel, 150 PSI For Vibration Isolation	385.43	191.47
23 05 48 13-0089 EA 2" Diameter x 12" Metal Wire Braid Connector, Over Corrugated Stainless Steel, 150 PSI For Vibration Isolation	515.64	287.21
23 05 48 13-0090 EA 2-1/2" Diameter x 12" Metal Wire Braid Connector, Over Corrugated Stainless Steel, 150 PSI For Vibration Isolation	557.40	316.00
23 05 48 13-0091 EA 3" Diameter x 12" Metal Wire Braid Connector, Over Corrugated Stainless Steel, 150 PSI For Vibration Isolation	653.71	382.64
23 05 48 13-0092 EA 4" Diameter x 12" Metal Wire Braid Connector, Over Corrugated Stainless Steel, 150 PSI For Vibration Isolation	837.12	489.87
23 05 48 13-0093 EA 6" Diameter x 12" Metal Wire Braid Connector, Over Corrugated Stainless Steel, 150 PSI For Vibration Isolation	1,133.86	609.47
23 05 48 13-0094 EA 8" Diameter x 12" Metal Wire Braid Connector, Over Corrugated Stainless Steel, 150 PSI For Vibration Isolation	1,771.32	814.25
23 05 48 13-0095 EA 10" Diameter x 13" Metal Wire Braid Connector, Over Corrugated Stainless Steel, 150 PSI For Vibration Isolation	2,078.08	941.55
23 05 48 13-0096 EA 12" Diameter x 14" Metal Wire Braid Connector, Over Corrugated Stainless Steel, 150 PSI For Vibration Isolation	2,596.95	1,017.81
23 05 48 13-0097 Flanged Flexible Molded Teflon Hose Connectors (23 05 48 13-0074)		
Note: 150 PSI.		
23 05 48 13-0098 EA 2-1/2" Diameter x 3-3/16" Molded Teflon Connectors With Stainless Steel Flanges, 150 PSI, For Vibration Isolation	1,010.78	222.11
23 05 48 13-0099 EA 3" Diameter x 3-5/8" Molded Teflon Connectors With Stainless Steel Flanges, 150 PSI, For Vibration Isolation	1,137.72	260.40
23 05 48 13-0100 EA 4" Diameter x 3-5/8" Molded Teflon Connectors With Stainless Steel Flanges, 150 PSI, For Vibration Isolation	1,740.09	437.65
23 05 48 13-0101 EA 6" Diameter x 4" Molded Teflon Connectors With Stainless Steel Flanges, 150 PSI, For Vibration Isolation	2,118.41	508.90
23 05 48 13-0102 EA 8" Diameter x 6" Molded Teflon Connectors With Stainless Steel Flanges, 150 PSI, For Vibration Isolation	2,750.15	624.26
23 05 48 13-0103 Flexible Hose Connectors Braided Metal Hose Type (23 05 48 13)		
23 05 48 13-0104 Braided Metal Hose Type Flexible Bronze Hose Connectors (23 05 48 13-0103)		
Note: MPT connection.		
23 05 48 13-0105 EA 1/2" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	38.88	3.07
23 05 48 13-0106 EA 1/2" Diameter x 18" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	45.85	3.07
23 05 48 13-0107 EA 1/2" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	51.46	3.98
23 05 48 13-0108 EA 1/2" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	62.03	3.98
23 05 48 13-0109 EA 3/4" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	51.54	3.68
23 05 48 13-0110 EA 3/4" Diameter x 18" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	61.78	3.68
23 05 48 13-0111 EA 3/4" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	71.12	4.74
23 05 48 13-0112 EA 3/4" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	87.06	4.74
23 05 48 13-0113 EA 1" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	69.91	4.29
23 05 48 13-0114 EA 1" Diameter x 18" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	76.19	4.29
23 05 48 13-0115 EA 1" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	90.94	5.67
23 05 48 13-0116 EA 1" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	114.25	5.67
23 05 48 13-0117 EA 1" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	137.39	5.67
23 05 48 13-0118 EA 1" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	160.60	5.67
23 05 48 13-0119 EA 1-1/4" Or 1-1/2" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	99.18	5.50
23 05 48 13-0120 EA 1-1/4" Or 1-1/2" Diameter x 18" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	108.96	5.50
23 05 48 13-0121 EA 1-1/4" Or 1-1/2" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	138.79	5.50
23 05 48 13-0122 EA 1-1/4" Or 1-1/2" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	192.75	7.33
23 05 48 13-0123 EA 1-1/4" Or 1-1/2" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	222.80	7.33
23 05 48 13-0124 EA 1-1/4" Or 1-1/2" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	262.79	7.33



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 48 13-0125	EA			2" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection.....	135.21	6.63
23 05 48 13-0126	EA			2" Diameter x 18" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection.....	155.66	6.63
23 05 48 13-0127	EA			2" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection.....	195.27	6.63
23 05 48 13-0128	EA			2" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection.....	260.41	8.88
23 05 48 13-0129	EA			2" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection.....	320.77	8.88
23 05 48 13-0130	EA			2" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection.....	381.08	8.88
23 05 48 13-0131	EA			2-1/2" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection.....	186.87	8.32
23 05 48 13-0132	EA			2-1/2" Diameter x 18" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection.....	212.06	7.89
23 05 48 13-0133	EA			2-1/2" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection.....	237.50	7.89
23 05 48 13-0134	EA			2-1/2" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection.....	293.41	10.57
23 05 48 13-0135	EA			2-1/2" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection.....	344.57	10.57
23 05 48 13-0136	EA			2-1/2" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection.....	394.13	10.57
23 05 48 13-0137	EA			3" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection.....	293.43	10.57
23 05 48 13-0138	EA			3" Diameter x 18" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection.....	327.41	10.57
23 05 48 13-0139	EA			3" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection.....	1,564.68	10.57
23 05 48 13-0140	EA			3" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection.....	1,883.01	14.10
23 05 48 13-0141	EA			3" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection.....	505.56	14.10
23 05 48 13-0142	EA			3" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection.....	572.43	14.10
23 05 48 13-0143	EA			4" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection.....	529.95	11.25
23 05 48 13-0144	EA			4" Diameter x 18" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection.....	569.66	11.25
23 05 48 13-0145	EA			4" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection.....	609.36	11.25
23 05 48 13-0146	EA			4" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection.....	697.75	14.99
23 05 48 13-0147	EA			4" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection.....	776.86	14.99
23 05 48 13-0148	EA			4" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection.....	857.67	14.99

23 05 48 13-0149 Braided Stainless Steel Flexible Hose Connectors (23 05 48 13-0103)

Note: Over braided carbon steel connection.

23 05 48 13-0150	EA			2" Diameter x 12" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded.....	160.30	6.71
23 05 48 13-0151	EA			2" Diameter x 18" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded.....	192.79	6.71
23 05 48 13-0152	EA			2" Diameter x 24" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded.....	224.66	6.71
23 05 48 13-0153	EA			2" Diameter x 36" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded.....	294.15	8.99
23 05 48 13-0154	EA			2" Diameter x 48" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded.....	358.77	8.99
23 05 48 13-0155	EA			2" Diameter x 60" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded.....	423.31	8.99
23 05 48 13-0156	EA			2-1/2" Or 3" Diameter x 12" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded.....	181.90	7.89
23 05 48 13-0157	EA			2-1/2" Or 3" Diameter x 18" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded.....	215.86	7.89
23 05 48 13-0158	EA			2-1/2" Or 3" Diameter x 24" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded.....	249.97	7.89
23 05 48 13-0159	EA			2-1/2" Or 3" Diameter x 36" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded.....	324.04	10.57
23 05 48 13-0160	EA			2-1/2" Or 3" Diameter x 48" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded.....	391.98	10.57
23 05 48 13-0161	EA			2-1/2" Or 3" Diameter x 60" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded.....	458.98	10.57
23 05 48 13-0162	EA			4" Diameter x 12" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded.....	194.42	10.57
23 05 48 13-0163	EA			4" Diameter x 18" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded.....	233.32	10.86
23 05 48 13-0164	LF			4" Diameter x 24" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded.....	272.78	10.57
23 05 48 13-0165	EA			4" Diameter x 36" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded.....	361.32	14.10
23 05 48 13-0166	EA			4" Diameter x 48" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded.....	439.80	14.10
23 05 48 13-0167	EA			4" Diameter x 60" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded.....	520.51	14.10
23 05 48 13-0168	EA			6" Diameter x 18" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded.....	391.58	20.55
23 05 48 13-0169	EA			6" Diameter x 24" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded.....	571.47	20.69
23 05 48 13-0170	EA			6" Diameter x 36" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded.....	766.11	27.25
23 05 48 13-0171	EA			6" Diameter x 48" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded.....	946.08	27.25
23 05 48 13-0172	EA			6" Diameter x 60" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded.....	1,126.00	27.25
23 05 48 13-0173	EA			8" Diameter x 18" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded.....	666.87	22.67
23 05 48 13-0174	EA			8" Diameter x 24" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded.....	802.98	22.67
23 05 48 13-0175	EA			8" Diameter x 36" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded.....	1,088.02	29.47
23 05 48 13-0176	EA			8" Diameter x 48" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded.....	1,358.02	29.47

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 48 Vibration and Seismic Controls for HVAC**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 48 13-0177 EA 8" Diameter x 60" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	1,627.95	29.47
23 05 48 13-0178 EA 10" Diameter x 18" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	716.33	28.34
23 05 48 13-0179 EA 10" Diameter x 24" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	1,056.61	28.34
23 05 48 13-0180 EA 10" Diameter x 36" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	1,414.69	36.90
23 05 48 13-0181 EA 10" Diameter x 48" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	1,756.15	36.90
23 05 48 13-0182 EA 10" Diameter x 60" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	2,096.18	36.90
23 05 48 13-0183 EA 12" Diameter x 24" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	1,410.51	34.26
23 05 48 13-0184 EA 12" Diameter x 36" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	1,835.17	34.26
23 05 48 13-0185 EA 12" Diameter x 48" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	2,297.44	46.10
23 05 48 13-0186 EA 12" Diameter x 60" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	2,725.83	46.10
23 05 48 13-0187 EA 12" Diameter x 72" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	3,156.22	46.10
23 05 48 13-0188 Braided Metal Hose Type Flexible Bronze Hose Connectors <small>(23 05 48 13-0103)</small>		
Note: Flanged end connection (carbon steel ends).		
23 05 48 13-0189 EA 2" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	694.89	6.63
23 05 48 13-0190 EA 2" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	1,209.00	187.93
23 05 48 13-0191 EA 2" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	1,503.44	187.93
23 05 48 13-0192 EA 2" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	1,797.87	187.93
23 05 48 13-0193 EA 2" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	2,092.43	187.93
23 05 48 13-0194 EA 2-1/2" Or 3" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	1,070.84	239.67
23 05 48 13-0195 EA 2-1/2" Or 3" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	1,381.11	239.67
23 05 48 13-0196 EA 2-1/2" Or 3" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	1,691.49	239.67
23 05 48 13-0197 EA 2-1/2" Or 3" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	2,002.00	239.67
23 05 48 13-0198 EA 2-1/2" Or 3" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	2,307.07	239.67
23 05 48 13-0199 EA 4" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	1,453.14	401.80
23 05 48 13-0200 EA 4" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	1,815.30	402.80
23 05 48 13-0201 EA 4" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	2,183.35	401.80
23 05 48 13-0202 EA 4" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	2,594.85	401.80
23 05 48 13-0203 EA 4" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	2,909.28	401.80
23 05 48 13-0204 EA 6" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	2,313.02	513.66
23 05 48 13-0205 EA 6" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	3,133.59	513.66
23 05 48 13-0206 EA 6" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	3,954.62	515.51
23 05 48 13-0207 EA 6" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	4,775.30	513.66
23 05 48 13-0208 EA 6" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	5,595.87	513.66
23 05 48 13-0209 EA 8" Diameter x 18" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	3,888.91	579.33
23 05 48 13-0210 EA 8" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	4,509.68	579.33
23 05 48 13-0211 EA 8" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	5,740.47	579.33
23 05 48 13-0212 EA 8" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	6,971.73	579.33
23 05 48 13-0213 EA 8" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	8,202.41	579.33
23 05 48 13-0214 EA 10" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	6,529.99	705.26
23 05 48 13-0215 EA 10" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	8,076.61	705.26
23 05 48 13-0216 EA 10" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	9,633.62	705.26
23 05 48 13-0217 EA 10" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	11,187.28	705.26



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 48 13-0218 EA 10" Diameter x 72" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends).....	12,442.92	705.26
23 05 48 13-0219 EA 12" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends).....	8,936.72	856.39
23 05 48 13-0220 EA 12" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends).....	10,899.34	856.39
23 05 48 13-0221 EA 12" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends).....	12,861.84	856.39
23 05 48 13-0222 EA 12" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends).....	14,824.34	856.39
23 05 48 13-0223 EA 12" Diameter x 72" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends).....	16,786.95	856.39

23 05 53 Identification for HVAC Piping and Equipment (23 05)

- 23 05 53 00-0001 Systems Identification (23 05 53)
- 23 05 53 00-0002 Pipe Marker Snap-On Type Plastic (23 05 53 00-0001)

Note: Outside diameters of insulation where necessary.

23 05 53 00-0003 EA 1/2" Outside Diameter Snap-On Plastic Marker.....	22.80
23 05 53 00-0004 EA 3/4" Outside Diameter Snap-On Plastic Marker.....	23.19
23 05 53 00-0005 EA 1" Outside Diameter Snap-On Plastic Marker.....	23.39
23 05 53 00-0006 EA 1-1/4" Outside Diameter Snap-On Plastic Marker.....	23.74
23 05 53 00-0007 EA 1-1/2" Outside Diameter Snap-On Plastic Marker.....	27.12
23 05 53 00-0008 EA 2" Outside Diameter Snap-On Plastic Marker.....	27.81
23 05 53 00-0009 EA 2-1/2" Outside Diameter Snap-On Plastic Marker.....	42.28
23 05 53 00-0010 EA 3" Outside Diameter Snap-On Plastic Marker.....	42.83
23 05 53 00-0011 EA 3-1/2" Outside Diameter Snap-On Plastic Marker.....	43.41
23 05 53 00-0012 EA 4" Outside Diameter Snap-On Plastic Marker.....	43.72
23 05 53 00-0013 EA 4-1/2" Outside Diameter Snap-On Plastic Marker.....	44.05
23 05 53 00-0014 EA 5" Outside Diameter Snap-On Plastic Marker.....	44.39
23 05 53 00-0015 EA 6" Outside Diameter Snap-On Plastic Marker.....	46.40
23 05 53 00-0016 EA 7" Outside Diameter Snap-On Plastic Marker.....	46.77
23 05 53 00-0017 EA 8" Outside Diameter Snap-On Plastic Marker.....	56.70
23 05 53 00-0018 EA 10" Outside Diameter Snap-On Plastic Marker.....	58.92
23 05 53 00-0019 EA 12" Outside Diameter Snap-On Plastic Marker.....	68.11
23 05 53 00-0020 EA 14" Outside Diameter Snap-On Plastic Marker.....	78.03

23 05 53 00-0021 Pipe Markers Pressure-Sensitive (23 05 53 00-0001)

Note: Outside diameter includes insulation where necessary.

23 05 53 00-0022 EA 1/2" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation.....	16.91
23 05 53 00-0023 EA 3/4" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation.....	17.68
23 05 53 00-0024 EA 1" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation.....	19.22
23 05 53 00-0025 EA 1-1/4" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation.....	19.52
23 05 53 00-0026 EA 1-1/2" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation.....	20.73
23 05 53 00-0027 EA 2" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation.....	21.19
23 05 53 00-0028 EA 2-1/2" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation.....	23.65
23 05 53 00-0029 EA 3" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation.....	24.25
23 05 53 00-0030 EA 3-1/2" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation.....	24.71
23 05 53 00-0031 EA 4" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation.....	25.18
23 05 53 00-0032 EA 4-1/2" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation.....	26.13
23 05 53 00-0033 EA 5" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation.....	27.17
23 05 53 00-0034 EA 6" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation.....	28.07
23 05 53 00-0035 EA 7" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation.....	28.96
23 05 53 00-0036 EA 8" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation.....	31.71
23 05 53 00-0037 EA 10" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation.....	33.39
23 05 53 00-0038 EA 12" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation.....	38.84

23 05 53 00-0039 Valve Identification Tag (23 05 53 00-0001)

Note: Includes beaded chain and/or "S" hook.

23 05 53 00-0040 EA 2" Diameter Identification Tag, Brass.....	14.99
23 05 53 00-0041 EA 1-1/2" Diameter Identification Tag, Plastic.....	14.24
23 05 53 00-0042 EA 1-1/2" Diameter Identification Tag, Brass.....	14.01

23 05 93 Testing, Adjusting, and Balancing for HVAC (23 05)

Note: Includes all necessary testing, startup, and checkout. Use these tasks for testing, startup, and checkout of existing systems or for third party testing and report when required.

23 05 93 00-0001 Heating And Ventilating Equipment (23 05 93)

23 05 93 00-0002 EA Balancing Centrifugal Fans.....	614.34
<i>For Testing Of Unit Without Balancing, Deduct</i>	<i>-307.17</i>
23 05 93 00-0003 EA Balancing Heating And Ventilating Units.....	767.62
<i>For Testing Of Unit Without Balancing, Deduct</i>	<i>-383.81</i>
23 05 93 00-0004 EA Balancing In Line Fan.....	691.14
<i>For Testing Of Unit Without Balancing, Deduct</i>	<i>-345.57</i>
23 05 93 00-0005 EA Balancing Propeller And Wall Fan.....	153.58
<i>For Testing Of Unit Without Balancing, Deduct</i>	<i>-76.79</i>

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 05 Common Work Results for HVAC

23 05 93 Testing, Adjusting, and Balancing for HVAC



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 93 00-0006 EA Balancing Roof Exhaust Fan <i>For Testing Of Unit Without Balancing, Deduct</i>	460.72 -230.36	
23 05 93 00-0007 EA Balancing Wall Fan <i>For Testing Of Unit Without Balancing, Deduct</i>	115.16 -57.58	
23 05 93 00-0008 EA Balancing Fan Section Exhaust <i>For Testing Of Unit Without Balancing, Deduct</i>	613.37 -306.69	
23 05 93 00-0009 Air Conditioning Equipment <small>(23 05 93)</small>		
23 05 93 00-0010 EA Balancing Constant Volume Air Handling Unit <i>For Testing Of Unit Without Balancing, Deduct</i>	1,128.31 -564.16	
23 05 93 00-0011 EA Balancing Package A/C Unit <i>For Testing Of Unit Without Balancing, Deduct</i>	423.12 -211.56	
23 05 93 00-0012 EA Balancing Rooftop Heat And Cool Unit <i>For Testing Of Unit Without Balancing, Deduct</i>	564.16 -282.08	
23 05 93 00-0013 EA Balancing Variable Volume Air Handling Unit <i>For Testing Of Unit Without Balancing, Deduct</i>	1,974.55 -987.28	
23 05 93 00-0014 Registers, Diffusers, Terminal Air Units And Dampers <small>(23 05 93)</small>		
23 05 93 00-0015 EA Balancing HVAC Duct System, Ceiling Height To 12' Supply, Return, Exhaust, Register And Diffuser <i>For Testing Of Unit Without Balancing, Deduct</i>	115.20 -57.60	
23 05 93 00-0016 EA Balancing HVAC Duct System, Ceiling Height >12' Supply, Return, Exhaust, Register And Diffuser <i>For Testing Of Unit Without Balancing, Deduct</i>	191.98 -95.99	
23 05 93 00-0017 EA Balancing HVAC Duct System, Floor Height Supply, Return, Exhaust, Register And Diffuser <i>For Testing Of Unit Without Balancing, Deduct</i>	99.84 -49.92	
23 05 93 00-0018 EA Balance Variable Air Volume Box <i>For Testing Of Unit Without Balancing, Deduct</i>	108.16 -54.08	
23 05 93 00-0019 EA Balance Constant Volume Box <i>For Testing Of Unit Without Balancing, Deduct</i>	108.16 -54.08	
23 05 93 00-0020 EA Balance Fan Powered Box <i>For Testing Of Unit Without Balancing, Deduct</i>	122.86 -61.43	
23 05 93 00-0021 EA Balance Lab Fume Hood <i>For Testing Of Unit Without Balancing, Deduct</i>	499.18 -249.59	
23 05 93 00-0022 EA Balance General Hood <i>For Testing Of Unit Without Balancing, Deduct</i>	383.96 -191.98	
23 05 93 00-0023 EA Balance Induction Unit <i>For Testing Of Unit Without Balancing, Deduct</i>	230.39 -115.20	
23 05 93 00-0024 EA Balance Moduline - Master <i>For Testing Of Unit Without Balancing, Deduct</i>	92.13 -46.07	
23 05 93 00-0025 EA Balance Moduline - Slave <i>For Testing Of Unit Without Balancing, Deduct</i>	46.07 -23.04	
23 05 93 00-0026 EA Balance Dampers <i>For Testing Of Unit Without Balancing, Deduct</i>	42.78 -21.39	
23 05 93 00-0027 EA Balance Regenerators <i>For Testing Of Unit Without Balancing, Deduct</i>	613.37 -306.69	
23 05 93 00-0028 Water Balancing Of Components <small>(23 05 93)</small>		
23 05 93 00-0029 EA Water Balance, Air Cool Condenser <i>For Testing Of Unit Without Balancing, Deduct</i>	775.79 -387.90	
23 05 93 00-0030 EA Water Balance, Cabinet Heater <i>For Testing Of Unit Without Balancing, Deduct</i>	98.73 -49.37	
23 05 93 00-0031 EA Water Balance, Chiller, Air Cooled <i>For Testing Of Unit Without Balancing, Deduct</i>	846.17 -423.09	
23 05 93 00-0032 EA Water Balance, Chiller, Water Cooled <i>For Testing Of Unit Without Balancing, Deduct</i>	1,128.31 -564.16	
23 05 93 00-0033 EA Water Balance, Cooling Tower <i>For Testing Of Unit Without Balancing, Deduct</i>	564.16 -282.08	
23 05 93 00-0034 EA Water Balance, Fan Coil And Vent <i>For Testing Of Unit Without Balancing, Deduct</i>	141.12 -70.56	
23 05 93 00-0035 EA Water Balance, Fin Tube And Radiant Panel <i>For Testing Of Unit Without Balancing, Deduct</i>	141.04 -70.52	
23 05 93 00-0036 EA Water Balance, Main And Duct Re-Heat Coil <i>For Testing Of Unit Without Balancing, Deduct</i>	155.14 -77.57	
23 05 93 00-0037 EA Water Balance, Pumps <i>For Testing Of Unit Without Balancing, Deduct</i>	423.13 -211.57	
23 05 93 00-0038 EA Water Balance, Unit Heater <i>For Testing Of Unit Without Balancing, Deduct</i>	98.73 -49.37	
23 05 93 00-0039 EA Water Balancing, Converter <i>For Testing Of Unit Without Balancing, Deduct</i>	423.29 -211.65	
23 05 93 00-0040 EA Water Balancing, Cocks And Valves <i>For Testing Of Unit Without Balancing, Deduct</i>	70.51 -35.26	
23 05 93 00-0041 EA Water Balance, Convector <i>For Testing Of Unit Without Balancing, Deduct</i>	84.61 -42.31	
23 05 93 00-0042 EA Water Balancing, Backflow Preventer Or Reduced Pressure Zone Valves <i>For Testing Of Unit Without Balancing, Deduct</i>	105.78 -52.89	
23 05 93 00-0043 EA Water Balance, Boiler, Up To 500 MBH <i>For Testing Of Unit Without Balancing, Deduct</i>	916.75 -458.38	
23 05 93 00-0044 EA >500 To 1,000 MBH, Water Balance, Boiler <i>For Testing Of Unit Without Balancing, Deduct</i>	1,692.47 -846.24	
23 05 93 00-0045 EA >1,000 MBH, Water Balance, Boiler <i>For Testing Of Unit Without Balancing, Deduct</i>	3,102.87 -1,551.44	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
--	-------	-----	-----	-------------	------------------------	----------------------

23 05 93 00-0046				Non-Destructive Testing <small>(23 05 93)</small>		
23 05 93 00-0047				X-Ray Welds, Non-Destructive Testing <small>(23 05 93 00-0046)</small>		
23 05 93 00-0048				Minimum Charge For X-Ray Welds <small>(23 05 93 00-0047)</small>		
23 05 93 00-0049	EA			X-Ray Welds Minimum Set-Up Charge 1,023.00		
<small>Note: For projects where the total charges are less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.</small>						

23 05 93 00-0050				Piping, X-Ray Welds, Non-Destructive Testing <small>(23 05 93 00-0047)</small>		
23 05 93 00-0051	EA			Up To 3/4" Piping, X-Ray Welds, Non-Destructive Testing..... 115.90		
23 05 93 00-0052	EA			1" Piping, X-Ray Welds, Non-Destructive Testing 131.93		
23 05 93 00-0053	EA			1-1/4" - 1-1/2" Piping, X-Ray Welds, Non-Destructive Testing..... 147.98		
23 05 93 00-0054	EA			2" Piping, X-Ray Welds, Non-Destructive Testing 156.36		
23 05 93 00-0055	EA			3" Piping, X-Ray Welds, Non-Destructive Testing 164.74		
23 05 93 00-0056	EA			4" Piping, X-Ray Welds, Non-Destructive Testing 173.85		
23 05 93 00-0057	EA			6" Piping, X-Ray Welds, Non-Destructive Testing 190.61		
23 05 93 00-0058	EA			8" Piping, X-Ray Welds, Non-Destructive Testing 207.37		
23 05 93 00-0059	EA			10" Piping, X-Ray Welds, Non-Destructive Testing 216.47		
23 05 93 00-0060	EA			12" Piping, X-Ray Welds, Non-Destructive Testing 225.58		

23 05 93 00-0061				Liquid Penetration Of Welds, Non-Destructive Testing <small>(23 05 93 00-0046)</small>		
23 05 93 00-0062				Piping, Liquid Penetration Of Welds, Non-Destructive Testing <small>(23 05 93 00-0061)</small>		
23 05 93 00-0063	EA			Up To 3/4" Piping, Liquid Penetration Of Welds, Non-Destructive Testing..... 136.60		
23 05 93 00-0064	EA			1" Piping, Liquid Penetration Of Welds, Non-Destructive Testing 144.26		
23 05 93 00-0065	EA			1-1/4" - 1-1/2" Piping, Liquid Penetration Of Welds, Non-Destructive Testing 151.91		
23 05 93 00-0066	EA			2" Piping, Liquid Penetration Of Welds, Non-Destructive Testing 155.74		
23 05 93 00-0067	EA			3" Piping, Liquid Penetration Of Welds, Non-Destructive Testing 161.49		
23 05 93 00-0068	EA			4" Piping, Liquid Penetration Of Welds, Non-Destructive Testing 167.24		
23 05 93 00-0069	EA			6" Piping, Liquid Penetration Of Welds, Non-Destructive Testing 178.72		
23 05 93 00-0070	EA			8" Piping, Liquid Penetration Of Welds, Non-Destructive Testing 190.21		
23 05 93 00-0071	EA			10" Piping, Liquid Penetration Of Welds, Non-Destructive Testing 201.70		
23 05 93 00-0072	EA			12" Piping, Liquid Penetration Of Welds, Non-Destructive Testing 213.19		

23 05 93 00-0073				Hydrostatic Testing <small>(23 05 93 00-0046)</small>		
<small>Note: Includes flushing and restoring of system.</small>						
23 05 93 00-0074				Piping, Hydrostatic Testing <small>(23 05 93 00-0073)</small>		
23 05 93 00-0075	EA			Up To 100', Up To 1-1/2" Piping, Hydrostatic Testing..... 1,007.75		
23 05 93 00-0076	EA			>100' To 250', Up To 1-1/2" Piping, Hydrostatic Testing 1,439.64		
23 05 93 00-0077	EA			>250' To 500', Up To 1-1/2" Piping, Hydrostatic Testing 1,724.98		
23 05 93 00-0078	EA			>500' To 1,000', Up To 1-1/2" Piping, Hydrostatic Testing 2,297.68		
23 05 93 00-0079	EA			>1,000' To 2,000', Up To 1-1/2" Piping, Hydrostatic Testing..... 3,481.32		
23 05 93 00-0080	EA			Up To 100', >1-1/2" To 4" Piping, Hydrostatic Testing 1,339.91		
23 05 93 00-0081	EA			>100' To 250', >1-1/2" To 4" Piping, Hydrostatic Testing..... 1,914.73		
23 05 93 00-0082	EA			>250' To 500', >1-1/2" To 4" Piping, Hydrostatic Testing 2,279.44		
23 05 93 00-0083	EA			>500' To 1,000', >1-1/2" To 4" Piping, Hydrostatic Testing..... 2,986.95		
23 05 93 00-0084	EA			>1,000' To 2,000', >1-1/2" To 4" Piping, Hydrostatic Testing..... 4,518.74		
23 05 93 00-0085	EA			Up To 100', >4" To 10" Piping, Hydrostatic Testing 1,746.24		
23 05 93 00-0086	EA			>100' To 250', >4" To 10" Piping, Hydrostatic Testing 2,489.15		
23 05 93 00-0087	EA			>250' To 500', >4" To 10" Piping, Hydrostatic Testing 2,625.95		
23 05 93 00-0088	EA			>500' To 1,000', >4" To 10" Piping, Hydrostatic Testing 3,440.21		
23 05 93 00-0089	EA			>1,000' To 2,000', >4" To 10" Piping, Hydrostatic Testing 5,204.41		
23 05 93 00-0090	EA			Up To 100', >10" To 14" Piping, Hydrostatic Testing 2,267.05		
23 05 93 00-0091	EA			>100' To 250', >10" To 14" Piping, Hydrostatic Testing..... 3,232.04		
23 05 93 00-0092	EA			>250' To 500', >10" To 14" Piping, Hydrostatic Testing..... 3,414.41		
23 05 93 00-0093	EA			>500' To 1,000', >10" To 14" Piping, Hydrostatic Testing..... 4,478.37		
23 05 93 00-0094	EA			>1,000' To 2,000', >10" To 14" Piping, Hydrostatic Testing 6,785.43		

23 05 93 00-0095				Pneumatic Testing <small>(23 05 93 00-0046)</small>		
<small>Note: Includes soaping joints flushing and restoring of system. Can be used for gas or smoke test.</small>						
23 05 93 00-0096				Piping, Pneumatic Testing <small>(23 05 93 00-0095)</small>		
23 05 93 00-0097	EA			Up To 100', Up To 1-1/2" Piping, Pneumatic Testing..... 1,146.14		
<small>Note: Includes soaping joints.</small>						
23 05 93 00-0098	EA			>100' To 250', Up To 1-1/2" Piping, Pneumatic Testing 1,635.38		
<small>Note: Includes soaping joints.</small>						
23 05 93 00-0099	EA			>250' To 500', Up To 1-1/2" Piping, Pneumatic Testing 1,766.29		
<small>Note: Includes soaping joints.</small>						
23 05 93 00-0100	EA			>500' To 1,000', Up To 1-1/2" Piping, Pneumatic Testing 2,262.50		
<small>Note: Includes soaping joints.</small>						
23 05 93 00-0101	EA			>1,000' To 2,000', Up To 1-1/2" Piping, Pneumatic Testing 3,539.16		
<small>Note: Includes soaping joints.</small>						
23 05 93 00-0102	EA			Up To 100', >1-1/2" To 4" Piping, Pneumatic Testing..... 1,495.54		
<small>Note: Includes soaping joints.</small>						

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 05 Common Work Results for HVAC****23 05 93 Testing, Adjusting, and Balancing for HVAC**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 93 00-0103 EA >100' To 250', >1-1/2" To 4" Piping, Pneumatic Testing..... Note: Includes soaping joints.	2,123.56	
23 05 93 00-0104 EA >250' To 500', >1-1/2" To 4" Piping, Pneumatic Testing..... Note: Includes soaping joints.	2,295.99	
23 05 93 00-0105 EA >500' To 1,000', >1-1/2" To 4" Piping, Pneumatic Testing..... Note: Includes soaping joints.	2,941.83	
23 05 93 00-0106 EA >1,000' To 2,000', >1-1/2" To 4" Piping, Pneumatic Testing..... Note: Includes soaping joints.	4,600.19	
23 05 93 00-0107 EA Up To 100', >4" To 10" Piping, Pneumatic Testing..... Note: Includes soaping joints.	1,800.71	
23 05 93 00-0108 EA >100' To 250', >4" To 10" Piping, Pneumatic Testing..... Note: Includes soaping joints.	2,541.16	
23 05 93 00-0109 EA >250' To 500', >4" To 10" Piping, Pneumatic Testing..... Note: Includes soaping joints.	2,875.14	
23 05 93 00-0110 EA >500' To 1,000', >4" To 10" Piping, Pneumatic Testing..... Note: Includes soaping joints.	3,673.95	
23 05 93 00-0111 EA >1,000' To 2,000', >4" To 10" Piping, Pneumatic Testing..... Note: Includes soaping joints.	5,753.36	
23 05 93 00-0112 EA Up To 100', >10" To 14" Piping, Pneumatic Testing..... Note: Includes soaping joints.	2,344.69	
23 05 93 00-0113 EA >100' To 250', >10" To 14" Piping, Pneumatic Testing..... Note: Includes soaping joints.	3,303.75	
23 05 93 00-0114 EA >250' To 500', >10" To 14" Piping, Pneumatic Testing..... Note: Includes soaping joints.	3,738.86	
23 05 93 00-0115 EA >500' To 1,000', >10" To 14" Piping, Pneumatic Testing..... Note: Includes soaping joints.	4,777.13	
23 05 93 00-0116 EA >1,000' To 2,000', >10" To 14" Piping, Pneumatic Testing..... Note: Includes soaping joints.	7,491.53	
23 05 93 00-0117 EPA Testing Of Sludge (23 05 93)		
23 05 93 00-0118 EA Flashpoint And Lead Test For Lead.....	1,064.37	
23 05 93 00-0119 EA Air Test/Combustion Gas Level.....	110.40	
23 05 93 00-0120 EA Toxicity Test For Heavy Metals.....	1,632.68	
23 05 93 00-0121 EA Aboveground Tank Water Settlement Test Including Water.....	1,239.30	

23 07 HVAC Insulation (23)**23 07 13 Duct Insulation (23 07)**

Note: Based on SF surface area of duct to receive insulation.

23 07 13 00-0001 FSK Fiber Glass Duct Wrap Insulation (23 07 13)		
Note: Foil-scrim kraft (FSK) facing lapped and joints sealed vapor tight.		
23 07 13 00-0002 Type 75 (0.75 LB/CF) FSK Fiber Glass Duct Wrap Insulation (23 07 13 00-0001)		
23 07 13 00-0003 SF 1" Thick, Type 75 (0.75 LB/CF) FSK Fiber Glass Duct Wrap Insulation.....	4.74	2.92
For Plain Blanket, With No Facing, Deduct	-0.34	
For Work In Restricted Working Space, Add	1.16	
23 07 13 00-0004 SF 1-1/2" Thick, Type 75 (0.75 LB/CF) FSK Fiber Glass Duct Wrap Insulation.....	5.54	2.92
For Plain Blanket, With No Facing, Deduct	-0.40	
For Work In Restricted Working Space, Add	1.37	
23 07 13 00-0005 SF 2" Thick, Type 75 (0.75 LB/CF) FSK Fiber Glass Duct Wrap Insulation.....	6.28	4.36
For Plain Blanket, With No Facing, Deduct	-0.43	
For Work In Restricted Working Space, Add	1.56	
23 07 13 00-0006 SF 3" Thick, Type 75 (0.75 LB/CF) FSK Fiber Glass Duct Wrap Insulation.....	7.42	5.10
For Plain Blanket, With No Facing, Deduct	-0.54	
For Work In Restricted Working Space, Add	1.82	
23 07 13 00-0007 SF 4" Thick, Type 75 (0.75 LB/CF) FSK Fiber Glass Duct Wrap Insulation.....	8.67	5.53
For Plain Blanket, With No Facing, Deduct	-0.84	
For Work In Restricted Working Space, Add	1.97	
23 07 13 00-0008 Type 100 (1.0 LB/CF) FSK Fiber Glass Duct Wrap Insulation (23 07 13 00-0001)		
23 07 13 00-0009 SF 1" Thick, Type 100 (1.0 LB/CF) FSK Fiber Glass Duct Wrap Insulation.....	5.85	4.36
For Plain Blanket, With No Facing, Deduct	-0.40	
For Work In Restricted Working Space, Add	1.46	
23 07 13 00-0010 SF 1-1/2" Thick, Type 100 (1.0 LB/CF) FSK Fiber Glass Duct Wrap Insulation.....	6.81	5.10
For Plain Blanket, With No Facing, Deduct	-0.48	
For Work In Restricted Working Space, Add	1.68	
23 07 13 00-0011 SF 2" Thick, Type 100 (1.0 LB/CF) Fiber Glass FSK Duct Wrap Insulation.....	8.04	5.82
For Plain Blanket, With No Facing, Deduct	-0.57	
For Work In Restricted Working Space, Add	1.99	
23 07 13 00-0012 Type 150 (1.5 LB/CF) FSK Fiber Glass Duct Wrap Insulation (23 07 13 00-0001)		
23 07 13 00-0013 SF 1" Thick, Type 150 (1.5 LB/CF) FSK Fiber Glass Duct Wrap Insulation.....	7.53	5.82
For Plain Blanket, With No Facing, Deduct	-0.67	
For Work In Restricted Working Space, Add	1.76	
23 07 13 00-0014 SF 1-1/2" Thick, Type 150 (1.5 LB/CF) FSK Fiber Glass Duct Wrap Insulation.....	9.61	6.56
For Plain Blanket, With No Facing, Deduct	-1.17	
For Work In Restricted Working Space, Add	2.00	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 07 13 00-0015 SF 2" Thick, Type 150 (1.5 LB/CF) FSK Fiber Glass Duct Wrap Insulation <i>For Plain Blanket, With No Facing, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	11.21 -1.38 2.33	7.28
23 07 13 00-0016 3 LB/CF FSK Rigid Fiber Glass Board Insulation <small>(23 07 13)</small> Note: Foil-scrim kraft (FSK) facing, sealed vapor tight and attached to ducts with mechanical fasteners.		
23 07 13 00-0017 SF 1" Thick, 3 LB/CF FSK Rigid Fiber Glass Board Insulation <i>For 8 Oz Canvas On Duct, Applied Over Deadening Felt And Finished, Add</i> <i>For Finishing Cement 1/2" Thick Over 1" Wire Mesh, Add</i> <i>For Non-Metallic Weatherproof Paste, 2 LB, Add</i> <i>For Work In Restricted Working Space, Add</i>	13.58 31.49 23.28 19.20 3.88	7.53
23 07 13 00-0018 SF 1-1/2" Thick, 3 LB/CF FSK Rigid Fiber Glass Board Insulation <i>For 8 Oz Canvas On Duct, Applied Over Deadening Felt And Finished, Add</i> <i>For Finishing Cement 1/2" Thick Over 1" Wire Mesh, Add</i> <i>For Non-Metallic Weatherproof Paste, 2 LB, Add</i> <i>For Work In Restricted Working Space, Add</i>	17.25 38.82 29.05 23.87 4.72	9.16
23 07 13 00-0019 SF 2" Thick, 3 LB/CF FSK Rigid Fiber Glass Board Insulation <i>For 8 Oz Canvas On Duct, Applied Over Deadening Felt And Finished, Add</i> <i>For Finishing Cement 1/2" Thick Over 1" Wire Mesh, Add</i> <i>For Non-Metallic Weatherproof Paste, 2 LB, Add</i> <i>For Work In Restricted Working Space, Add</i>	21.37 47.23 35.61 29.19 5.69	11.06
23 07 13 00-0020 4.253 LB/CF FSK Rigid Fiber Glass Board Insulation <small>(23 07 13)</small> Note: Foil-scrim kraft (FSK) facing, sealed vapor tight and attached to ducts with mechanical fastener.		
23 07 13 00-0021 SF 1" Thick, 4.253 LB/CF FSK Rigid Fiber Glass Board Insulation <i>For Work In Restricted Working Space, Add</i>	15.19 4.27	8.29
23 07 13 00-0022 SF 1-1/2" Thick, 4.253 LB/CF FSK Rigid Fiber Glass Board Insulation <i>For Work In Restricted Working Space, Add</i>	19.45 5.19	10.08
23 07 13 00-0023 SF 2" Thick, 4.253 LB/CF FSK Rigid Fiber Glass Board Insulation <i>For Work In Restricted Working Space, Add</i>	24.66 6.26	12.17
23 07 13 00-0024 Sheet Flexible Elastomeric Insulation <small>(23 07 13)</small>		
23 07 13 00-0025 SF 3/8" Thick, Sheet Flexible Elastomeric Insulation	10.03	3.93
23 07 13 00-0026 SF 1/2" Thick, Sheet Flexible Elastomeric Insulation	10.70	4.15
23 07 13 00-0027 SF 3/4" Thick, Sheet Flexible Elastomeric Insulation	13.67	4.36
23 07 13 00-0028 SF 1" Thick, Sheet Flexible Elastomeric Insulation	15.60	4.58
23 07 13 00-0029 SF 1-1/2" Thick, Sheet Flexible Elastomeric Insulation	21.14	5.03
23 07 13 00-0030 SF 2" Thick, Sheet Flexible Elastomeric Insulation	24.83	5.46
23 07 13 00-0031 Aluminum Foil/Mylar Film, Multi-Layer Sheet Elastomeric Insulation <small>(23 07 13)</small> Note: Jacketing is a 3-ply laminate consisting of a PVC core, 0.012" thick aluminum foil jacketing and UV-protective Mylar film.		
23 07 13 00-0032 SF 1/2" Thick, Aluminum Foil/Mylar Film, Multi-Layer Sheet Elastomeric Insulation	14.27	4.15
23 07 13 00-0033 SF 3/4" Thick, Aluminum Foil/Mylar Film, Multi-Layer Sheet Elastomeric Insulation	15.63	4.36
23 07 13 00-0034 SF 1" Thick, Aluminum Foil/Mylar Film, Multi-Layer Sheet Elastomeric Insulation	17.31	4.58
23 07 13 00-0035 SF 1-1/2" Thick, Aluminum Foil/Mylar Film, Multi-Layer Sheet Elastomeric Insulation	26.27	5.03
23 07 13 00-0036 SF 2" Thick, Aluminum Foil/Mylar Film, Multi-Layer Sheet Elastomeric Insulation	30.96	5.46
23 07 13 00-0037 Adhesive Backed, Aluminum Foil/Mylar Film, Multi-Layer Sheet Elastomeric Insulation <small>(23 07 13)</small> Note: Jacketing is a 3-ply laminate consisting of a PVC core, 0.012" thick aluminum foil jacketing and UV-protective Mylar film.		
23 07 13 00-0038 SF 1/2" Thick, Adhesive Backed, Aluminum Foil/Mylar Film, Multi-Layer Sheet Elastomeric Insulation	16.81	4.15
23 07 13 00-0039 SF 3/4" Thick, Adhesive Backed, Aluminum Foil/Mylar Film, Multi-Layer Sheet Elastomeric Insulation	18.17	4.36
23 07 13 00-0040 SF 1" Thick, Adhesive Backed, Aluminum Foil/Mylar Film, Multi-Layer Sheet Elastomeric Insulation	20.30	4.58
23 07 13 00-0041 SF 1-1/2" Thick, Adhesive Backed, Aluminum Foil/Mylar Film, Multi-Layer Sheet Elastomeric Insulation	29.23	5.03
23 07 16 HVAC Equipment Insulation <small>(23 07)</small>		
23 07 16 00-0001 Calcium Silicate Block Insulation <small>(23 07 16)</small>		
23 07 16 00-0002 SF 1" Thick, Calcium Silicate Block Insulation <i>For Work In Restricted Working Space, Add</i>	21.54 5.43	9.05
23 07 16 00-0003 SF 1-1/2" Thick, Calcium Silicate Block Insulation <i>For Work In Restricted Working Space, Add</i>	25.53 6.11	10.18
23 07 16 00-0004 SF 2" Thick, Calcium Silicate Block Insulation <i>For Work In Restricted Working Space, Add</i>	30.46 7.07	11.74
23 07 16 00-0005 SF 2-1/2" Thick, Calcium Silicate Block Insulation <i>For Work In Restricted Working Space, Add</i>	36.19 8.27	13.79
23 07 16 00-0006 SF 3" Thick, Calcium Silicate Block Insulation <i>For Work In Restricted Working Space, Add</i>	44.27 10.18	16.97
23 07 19 HVAC Piping Insulation <small>(23 07)</small> See CSI section 22 07 19 00-0000 for pipe insulation.		
23 07 19 00-0001 Calcium Silicate Pipe Insulation <small>(23 07 19)</small>		

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 07 HVAC Insulation****23 07 19 HVAC Piping Insulation**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

Note: Includes adhesive. Excludes fittings (a location requiring purchase of an insulation fitting or cutting and fitting straight sections, excludes couplings, plugs, etc.). For fittings/valves up to 3" add 2 LF for each fitting/valve or 3 LF for each flanged/grooved joint. For fittings/valves >3" add 3 LF for each fitting/valve or 4 LF for each flanged/grooved joint. See CSI section 22 07 19 00-0594 for protective jacketing.

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 07 19 00-0002			1" Thick, Calcium Silicate Pipe Insulation (23 07 19 00-0001)		
23 07 19 00-0003	LF		1/2" Diameter Pipe, 1" Thick Calcium Silicate Insulation	17.41	4.79
			<i>For Work In Restricted Working Space, Add</i>	3.59	
23 07 19 00-0004	LF		3/4" Diameter Pipe, 1" Thick Calcium Silicate Insulation	17.41	4.79
			<i>For Work In Restricted Working Space, Add</i>	3.59	
23 07 19 00-0005	LF		1" Diameter Pipe, 1" Thick Calcium Silicate Insulation	17.35	4.86
			<i>For Work In Restricted Working Space, Add</i>	3.64	
23 07 19 00-0006	LF		1-1/4" Diameter Pipe, 1" Thick Calcium Silicate Insulation	17.61	4.93
			<i>For Work In Restricted Working Space, Add</i>	3.69	
23 07 19 00-0007	LF		1-1/2" Diameter Pipe, 1" Thick Calcium Silicate Insulation	17.83	5.00
			<i>For Work In Restricted Working Space, Add</i>	3.74	
23 07 19 00-0008	LF		2" Diameter Pipe, 1" Thick Calcium Silicate Insulation	18.99	5.13
			<i>For Work In Restricted Working Space, Add</i>	3.85	
23 07 19 00-0009	LF		2-1/2" Diameter Pipe, 1" Thick Calcium Silicate Insulation	19.85	5.34
			<i>For Work In Restricted Working Space, Add</i>	4.00	
23 07 19 00-0010	LF		3" Diameter Pipe, 1" Thick Calcium Silicate Insulation	20.69	5.48
			<i>For Work In Restricted Working Space, Add</i>	4.11	
23 07 19 00-0011	LF		4" Diameter Pipe, 1" Thick Calcium Silicate Insulation	23.48	5.89
			<i>For Work In Restricted Working Space, Add</i>	4.42	
23 07 19 00-0012	LF		6" Diameter Pipe, 1" Thick Calcium Silicate Insulation	26.19	6.65
			<i>For Work In Restricted Working Space, Add</i>	4.99	
23 07 19 00-0013			1-1/2" Thick, Calcium Silicate Pipe Insulation (23 07 19 00-0001)		
23 07 19 00-0014	LF		1/2" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation	18.21	4.99
			<i>For Work In Restricted Working Space, Add</i>	3.74	
23 07 19 00-0015	LF		3/4" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation	18.31	4.99
			<i>For Work In Restricted Working Space, Add</i>	3.74	
23 07 19 00-0016	LF		1" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation	19.57	5.28
			<i>For Work In Restricted Working Space, Add</i>	3.96	
23 07 19 00-0017	LF		1-1/4" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation	20.31	5.38
			<i>For Work In Restricted Working Space, Add</i>	4.04	
23 07 19 00-0018	LF		1-1/2" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation	21.08	5.48
			<i>For Work In Restricted Working Space, Add</i>	4.11	
23 07 19 00-0019	LF		2" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation	22.58	5.78
			<i>For Work In Restricted Working Space, Add</i>	4.34	
23 07 19 00-0020	LF		2-1/2" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation	23.58	5.88
			<i>For Work In Restricted Working Space, Add</i>	4.41	
23 07 19 00-0021	LF		3" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation	24.47	6.08
			<i>For Work In Restricted Working Space, Add</i>	4.56	
23 07 19 00-0022	LF		4" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation	27.18	6.58
			<i>For Work In Restricted Working Space, Add</i>	4.93	
23 07 19 00-0023	LF		6" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation	31.54	7.67
			<i>For Work In Restricted Working Space, Add</i>	5.76	
23 07 19 00-0024	LF		8" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation	36.61	8.10
			<i>For Work In Restricted Working Space, Add</i>	6.08	
23 07 19 00-0025	LF		10" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation	45.90	9.69
			<i>For Work In Restricted Working Space, Add</i>	7.27	
23 07 19 00-0026	LF		12" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation	53.93	11.29
			<i>For Work In Restricted Working Space, Add</i>	8.47	
23 07 19 00-0027	LF		14" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation	59.98	12.38
			<i>For Work In Restricted Working Space, Add</i>	9.28	
23 07 19 00-0028	LF		16" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation	71.90	15.76
			<i>For Work In Restricted Working Space, Add</i>	11.81	
23 07 19 00-0029	LF		18" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation	77.31	16.54
			<i>For Work In Restricted Working Space, Add</i>	12.41	
23 07 19 00-0030			2" Thick, Calcium Silicate Pipe Insulation (23 07 19 00-0001)		
23 07 19 00-0031	LF		1/2" Diameter Pipe, 2" Thick Calcium Silicate Insulation	22.77	5.48
			<i>For Work In Restricted Working Space, Add</i>	4.11	
23 07 19 00-0032	LF		3/4" Diameter Pipe, 2" Thick Calcium Silicate Insulation	23.26	5.48
			<i>For Work In Restricted Working Space, Add</i>	4.11	
23 07 19 00-0033	LF		1" Diameter Pipe, 2" Thick Calcium Silicate Insulation	23.95	5.55
			<i>For Work In Restricted Working Space, Add</i>	4.16	
23 07 19 00-0034	LF		1-1/4" Diameter Pipe, 2" Thick Calcium Silicate Insulation	24.85	5.62
			<i>For Work In Restricted Working Space, Add</i>	4.21	
23 07 19 00-0035	LF		1-1/2" Diameter Pipe, 2" Thick Calcium Silicate Insulation	25.50	5.68
			<i>For Work In Restricted Working Space, Add</i>	4.27	
23 07 19 00-0036	LF		2" Diameter Pipe, 2" Thick Calcium Silicate Insulation	26.57	5.89
			<i>For Work In Restricted Working Space, Add</i>	4.42	
23 07 19 00-0037	LF		2-1/2" Diameter Pipe, 2" Thick Calcium Silicate Insulation	29.49	6.10
			<i>For Work In Restricted Working Space, Add</i>	4.58	
23 07 19 00-0038	LF		3" Diameter Pipe, 2" Thick Calcium Silicate Insulation	30.07	6.31
			<i>For Work In Restricted Working Space, Add</i>	4.73	
23 07 19 00-0039	LF		4" Diameter Pipe, 2" Thick Calcium Silicate Insulation	33.17	6.66
			<i>For Work In Restricted Working Space, Add</i>	4.99	
23 07 19 00-0040	LF		6" Diameter Pipe, 2" Thick Calcium Silicate Insulation	40.57	7.98
			<i>For Work In Restricted Working Space, Add</i>	5.99	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 07 19 00-0041 LF 8" Diameter Pipe, 2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	45.62 6.32	8.43
23 07 19 00-0042 LF 10" Diameter Pipe, 2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	56.06 7.57	10.09
23 07 19 00-0043 LF 12" Diameter Pipe, 2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	64.46 9.06	12.08
23 07 19 00-0044 LF 14" Diameter Pipe, 2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	79.82 12.64	16.85
23 07 19 00-0045 LF 16" Diameter Pipe, 2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	83.67 12.64	16.85
23 07 19 00-0046 LF 18" Diameter Pipe, 2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	89.54 13.27	17.70
23 07 19 00-0047 LF 20" Diameter Pipe, 2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	106.36 15.17	20.23
23 07 19 00-0048 LF 24" Diameter Pipe, 2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	124.23 18.33	24.44
 23 07 19 00-0049 2-1/2" Thick, Calcium Silicate Pipe Insulation (23 07 19 00-0001)		
23 07 19 00-0050 LF 1/2" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	27.22 4.74	6.31
23 07 19 00-0051 LF 3/4" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	27.73 4.74	6.31
23 07 19 00-0052 LF 1" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	28.21 4.82	6.42
23 07 19 00-0053 LF 1-1/4" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	28.47 4.85	6.47
23 07 19 00-0054 LF 1-1/2" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	29.15 4.89	6.52
23 07 19 00-0055 LF 2" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	30.38 5.09	6.79
23 07 19 00-0056 LF 2-1/2" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	33.91 5.27	7.02
23 07 19 00-0057 LF 3" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	34.52 5.45	7.27
23 07 19 00-0058 LF 4" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	39.58 5.75	7.66
23 07 19 00-0059 LF 6" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	48.94 6.53	8.71
23 07 19 00-0060 LF 8" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	55.76 7.28	9.70
23 07 19 00-0061 LF 10" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	66.43 8.39	11.19
23 07 19 00-0062 LF 12" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	77.66 10.43	13.92
23 07 19 00-0063 LF 14" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	85.83 11.39	15.19
23 07 19 00-0064 LF 16" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	104.60 14.56	19.42
23 07 19 00-0065 LF 18" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	110.42 15.29	20.38
23 07 19 00-0066 LF 20" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	127.95 17.48	23.30
23 07 19 00-0067 LF 24" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	150.65 21.11	28.15
 23 07 19 00-0068 3" Thick, Calcium Silicate Pipe Insulation (23 07 19 00-0001)		
23 07 19 00-0069 LF 1/2" Diameter Pipe, 3" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	33.94 5.24	6.99
23 07 19 00-0070 LF 3/4" Diameter Pipe, 3" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	34.05 5.24	6.99
23 07 19 00-0071 LF 1" Diameter Pipe, 3" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	34.36 5.30	7.07
23 07 19 00-0072 LF 1-1/4" Diameter Pipe, 3" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	34.70 5.33	7.11
23 07 19 00-0073 LF 1-1/2" Diameter Pipe, 3" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	35.03 5.39	7.19
23 07 19 00-0074 LF 2" Diameter Pipe, 3" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	36.24 5.59	7.45
23 07 19 00-0075 LF 2-1/2" Diameter Pipe, 3" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	39.98 5.78	7.71
23 07 19 00-0076 LF 3" Diameter Pipe, 3" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	40.83 5.99	7.98
23 07 19 00-0077 LF 4" Diameter Pipe, 3" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	47.74 6.32	8.44
23 07 19 00-0078 LF 6" Diameter Pipe, 3" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	56.46 7.18	9.57
23 07 19 00-0079 LF 8" Diameter Pipe, 3" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	65.41 8.00	10.67
23 07 19 00-0080 LF 10" Diameter Pipe, 3" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	77.54 9.23	12.32
23 07 19 00-0081 LF 12" Diameter Pipe, 3" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	90.00 11.48	15.30

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 07 HVAC Insulation

23 07 19 HVAC Piping Insulation



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 07 19 00-0082 LF 14" Diameter Pipe, 3" Thick Calcium Silicate Insulation	99.79	16.71
<i>For Work In Restricted Working Space, Add</i>	12.53	
23 07 19 00-0083 LF 16" Diameter Pipe, 3" Thick Calcium Silicate Insulation	117.48	21.36
<i>For Work In Restricted Working Space, Add</i>	16.01	
23 07 19 00-0084 LF 18" Diameter Pipe, 3" Thick Calcium Silicate Insulation	126.44	22.42
<i>For Work In Restricted Working Space, Add</i>	16.82	
23 07 19 00-0085 LF 20" Diameter Pipe, 3" Thick Calcium Silicate Insulation	147.81	25.64
<i>For Work In Restricted Working Space, Add</i>	19.23	
23 07 19 00-0086 LF 24" Diameter Pipe, 3" Thick Calcium Silicate Insulation	175.09	30.97
<i>For Work In Restricted Working Space, Add</i>	23.23	
23 07 19 00-0087 3-1/2" Thick, Calcium Silicate Pipe Insulation (23 07 19 00-0001)		
23 07 19 00-0088 LF 1/2" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation	42.75	7.66
<i>For Work In Restricted Working Space, Add</i>	5.75	
23 07 19 00-0089 LF 3/4" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation	44.24	7.66
<i>For Work In Restricted Working Space, Add</i>	5.75	
23 07 19 00-0090 LF 1" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation	44.36	7.71
<i>For Work In Restricted Working Space, Add</i>	5.78	
23 07 19 00-0091 LF 1-1/4" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation	44.50	7.76
<i>For Work In Restricted Working Space, Add</i>	5.82	
23 07 19 00-0092 LF 1-1/2" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation	45.84	7.86
<i>For Work In Restricted Working Space, Add</i>	5.90	
23 07 19 00-0093 LF 2" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation	48.56	8.12
<i>For Work In Restricted Working Space, Add</i>	6.09	
23 07 19 00-0094 LF 2-1/2" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation	52.56	8.41
<i>For Work In Restricted Working Space, Add</i>	6.31	
23 07 19 00-0095 LF 3" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation	54.43	8.71
<i>For Work In Restricted Working Space, Add</i>	6.53	
23 07 19 00-0096 LF 4" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation	61.71	9.20
<i>For Work In Restricted Working Space, Add</i>	6.90	
23 07 19 00-0097 LF 6" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation	68.93	10.45
<i>For Work In Restricted Working Space, Add</i>	7.84	
23 07 19 00-0098 LF 8" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation	83.51	11.64
<i>For Work In Restricted Working Space, Add</i>	8.73	
23 07 19 00-0099 LF 10" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation	101.21	13.43
<i>For Work In Restricted Working Space, Add</i>	10.07	
23 07 19 00-0100 LF 12" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation	122.70	16.69
<i>For Work In Restricted Working Space, Add</i>	12.52	
23 07 19 00-0101 LF 14" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation	129.51	18.23
<i>For Work In Restricted Working Space, Add</i>	13.67	
23 07 19 00-0102 LF 16" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation	151.83	23.30
<i>For Work In Restricted Working Space, Add</i>	17.47	
23 07 19 00-0103 LF 18" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation	173.50	24.46
<i>For Work In Restricted Working Space, Add</i>	18.35	
23 07 19 00-0104 LF 20" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation	187.85	27.97
<i>For Work In Restricted Working Space, Add</i>	20.98	
23 07 19 00-0105 4" Thick, Calcium Silicate Pipe Insulation (23 07 19 00-0001)		
23 07 19 00-0106 LF 1/2" Diameter Pipe, 4" Thick Calcium Silicate Insulation	52.97	8.51
<i>For Work In Restricted Working Space, Add</i>	6.38	
23 07 19 00-0107 LF 3/4" Diameter Pipe, 4" Thick Calcium Silicate Insulation	53.02	8.51
<i>For Work In Restricted Working Space, Add</i>	6.38	
23 07 19 00-0108 LF 1" Diameter Pipe, 4" Thick Calcium Silicate Insulation	53.39	8.66
<i>For Work In Restricted Working Space, Add</i>	6.49	
23 07 19 00-0109 LF 1-1/4" Diameter Pipe, 4" Thick Calcium Silicate Insulation	54.80	8.76
<i>For Work In Restricted Working Space, Add</i>	6.57	
23 07 19 00-0110 LF 1-1/2" Diameter Pipe, 4" Thick Calcium Silicate Insulation	57.95	9.03
<i>For Work In Restricted Working Space, Add</i>	6.77	
23 07 19 00-0111 LF 2" Diameter Pipe, 4" Thick Calcium Silicate Insulation	59.18	9.31
<i>For Work In Restricted Working Space, Add</i>	6.98	
23 07 19 00-0112 LF 2-1/2" Diameter Pipe, 4" Thick Calcium Silicate Insulation	64.35	9.45
<i>For Work In Restricted Working Space, Add</i>	7.09	
23 07 19 00-0113 LF 3" Diameter Pipe, 4" Thick Calcium Silicate Insulation	66.24	9.80
<i>For Work In Restricted Working Space, Add</i>	7.35	
23 07 19 00-0114 LF 4" Diameter Pipe, 4" Thick Calcium Silicate Insulation	74.89	10.35
<i>For Work In Restricted Working Space, Add</i>	7.76	
23 07 19 00-0115 LF 6" Diameter Pipe, 4" Thick Calcium Silicate Insulation	86.54	11.74
<i>For Work In Restricted Working Space, Add</i>	8.81	
23 07 19 00-0116 LF 8" Diameter Pipe, 4" Thick Calcium Silicate Insulation	102.77	13.09
<i>For Work In Restricted Working Space, Add</i>	9.82	
23 07 19 00-0117 LF 10" Diameter Pipe, 4" Thick Calcium Silicate Insulation	118.35	15.12
<i>For Work In Restricted Working Space, Add</i>	11.34	
23 07 19 00-0118 LF 12" Diameter Pipe, 4" Thick Calcium Silicate Insulation	135.39	18.78
<i>For Work In Restricted Working Space, Add</i>	14.09	
23 07 19 00-0119 LF 14" Diameter Pipe, 4" Thick Calcium Silicate Insulation	144.21	20.52
<i>For Work In Restricted Working Space, Add</i>	15.39	
23 07 19 00-0120 LF 16" Diameter Pipe, 4" Thick Calcium Silicate Insulation	171.51	26.23
<i>For Work In Restricted Working Space, Add</i>	19.67	
23 07 19 00-0121 LF 18" Diameter Pipe, 4" Thick Calcium Silicate Insulation	182.25	27.49
<i>For Work In Restricted Working Space, Add</i>	20.62	
23 07 19 00-0122 LF 20" Diameter Pipe, 4" Thick Calcium Silicate Insulation	202.10	31.46
<i>For Work In Restricted Working Space, Add</i>	23.60	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
-------	-----	-----	-------------	------------------------	----------------------

23 07 19 00-0123			Weather-Protective Coating For Calcium Silicate Pipe Insulation <small>(23 07 19 00-0001)</small>		
23 07 19 00-0124	SF		1/4" Thick (Two 1/8" Coats), Weatherproof Coating Over Glass Cloth Mesh (Insulkote ET) <small>(23 07 19 00-0001)</small>	6.86	
			<i>For Work In Restricted Working Space, Add</i>	1.35	

23 20 HVAC Piping and Pumps (23)

Note: The demolition price for only the length of pipe (LF) shall be used for lengths (LF) of pipe removal which exclude the fittings, valves, and insulation. The demolition price for individual fittings, valves, and insulation shall not be used in conjunction with pipe (LF) demolition tasks.

23 21 Hydronic Piping and Pumps (23 20)

23 21 13 Hydronic Piping (23 21)

Note: The demolition price for only the length of pipe (LF) shall be used for lengths (LF) of pipe removal which exclude the fittings, valves, and insulation. The demolition price for individual fittings, valves, and insulation shall not be used in conjunction with pipe (LF) demolition tasks.

23 21 13 23 Aboveground Hydronic Piping (23 21 13)

23 21 13 23-0001 Threaded Black Steel Pipe (23 21 13 23)

23 21 13 23-0002 Threaded Black Steel Pipe Assemblies (23 21 13 23-0001)

Note: ASTM A-53 pipe and A-105 fittings. Threaded and coupled. Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. Includes cutting and threading to length where necessary.

23 21 13 23-0003	LF	3/4" Schedule 40 Threaded Black Steel Pipe With 150 LB Malleable Iron Fitting Assembly		27.25	5.64
		Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.			
		<i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>		6.70	
		<i>For Work In Restricted Working Space, Add</i>		5.83	
23 21 13 23-0004	LF	3/4" Schedule 40 Threaded Black Steel Pipe With 150 LB Malleable Iron Fitting Assembly		30.01	6.06
		Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.			
		<i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>		7.56	
		<i>For Work In Restricted Working Space, Add</i>		6.09	
23 21 13 23-0005	LF	1" Schedule 40 Threaded Black Steel Pipe With 150 LB Malleable Iron Fitting Assembly		33.56	6.63
		Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.			
		<i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>		8.65	
		<i>For Work In Restricted Working Space, Add</i>		6.43	
23 21 13 23-0006	LF	1-1/4" Schedule 40 Threaded Black Steel Pipe With 150 LB Malleable Iron Fitting Assembly		40.39	6.91
		Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.			
		<i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>		10.84	
		<i>For Work In Restricted Working Space, Add</i>		6.93	
23 21 13 23-0007	LF	1-1/2" Schedule 40 Threaded Black Steel Pipe With 150 LB Malleable Iron Fitting Assembly		43.30	8.18
		Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.			
		<i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>		11.84	
		<i>For Work In Restricted Working Space, Add</i>		7.03	
23 21 13 23-0008	LF	2" Schedule 40 Threaded Black Steel Pipe With 150 LB Malleable Iron Fitting Assembly		52.23	9.86
		Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.			
		<i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>		14.58	
		<i>For Work In Restricted Working Space, Add</i>		7.92	
23 21 13 23-0009	LF	2-1/2" Schedule 40 Threaded Black Steel Pipe With 150 LB Malleable Iron Fitting Assembly		77.07	11.70
		Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.			
		<i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>		22.51	
		<i>For Work In Restricted Working Space, Add</i>		9.82	
23 21 13 23-0010	LF	3" Schedule 40 Threaded Black Steel Pipe With 150 LB Malleable Iron Fitting Assembly		98.11	15.65
		Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.			
		<i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>		28.90	
		<i>For Work In Restricted Working Space, Add</i>		12.03	
23 21 13 23-0011	LF	4" Schedule 40 Threaded Black Steel Pipe With 150 LB Malleable Iron Fitting Assembly		137.08	16.61
		Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.			
		<i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>		42.95	
		<i>For Work In Restricted Working Space, Add</i>		12.00	
23 21 13 23-0012	LF	5" Schedule 40 Threaded Black Steel Pipe With 150 LB Malleable Iron Fitting Assembly		221.57	21.23
		Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.			
		<i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>		72.14	
		<i>For Work In Restricted Working Space, Add</i>		14.30	
23 21 13 23-0013	LF	6" Schedule 40 Threaded Black Steel Pipe With 150 LB Malleable Iron Fitting Assembly		266.47	25.11
		Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.			
		<i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>		87.29	
		<i>For Work In Restricted Working Space, Add</i>		16.20	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
23 21 13 23-0014		Threaded Black Steel Pipe And Fittings <small>(23 21 13 23-0001)</small>			
		Note: ASTM A-53 pipe and A-105 fittings. Threaded and coupled, schedule 40. Excludes hangers, elbow, tee, or reducer fittings.			
23 21 13 23-0015		Threaded And Coupled, Black Steel Piping <small>(23 21 13 23-0014)</small>			
		Note: ASTM A-53. Includes coupling. Includes cutting and threading to length where necessary.			
23 21 13 23-0016	LF	3/8" Schedule 40, Threaded And Coupled, Black Steel Pipe.....	10.25		3.52
		For Schedule 80 Pipe, Add	2.12		
		For Work In Restricted Working Space, Add	2.14		
23 21 13 23-0017	LF	1/2" Schedule 40, Threaded And Coupled, Black Steel Pipe.....	13.78		5.64
		For Schedule 80 Pipe, Add	3.21		
		For Work In Restricted Working Space, Add	2.57		
23 21 13 23-0018	LF	3/4" Schedule 40, Threaded And Coupled, Black Steel Pipe.....	15.88		6.06
		For Schedule 80 Pipe, Add	3.96		
		For Work In Restricted Working Space, Add	2.73		
23 21 13 23-0019	LF	1" Schedule 40, Threaded And Coupled, Black Steel Pipe.....	18.89		6.63
		For Schedule 80 Pipe, Add	5.05		
		For Work In Restricted Working Space, Add	2.96		
23 21 13 23-0020	LF	1-1/4" Schedule 40, Threaded And Coupled, Black Steel Pipe.....	22.54		6.91
		For Schedule 80 Pipe, Add	6.49		
		For Work In Restricted Working Space, Add	3.14		
23 21 13 23-0021	LF	1-1/2" Schedule 40, Threaded And Coupled, Black Steel Pipe.....	26.72		8.18
		For Schedule 80 Pipe, Add	7.73		
		For Work In Restricted Working Space, Add	3.68		
23 21 13 23-0022	LF	2" Schedule 40, Threaded And Coupled, Black Steel Pipe.....	33.78		9.86
		For Schedule 80 Pipe, Add	10.01		
		For Work In Restricted Working Space, Add	4.45		
23 21 13 23-0023	LF	2-1/2" Schedule 40, Threaded And Coupled, Black Steel Pipe.....	47.54		11.70
		For Schedule 80 Pipe, Add	15.23		
		For Work In Restricted Working Space, Add	5.29		
23 21 13 23-0024	LF	3" Schedule 40, Threaded And Coupled, Black Steel Pipe.....	62.69		15.65
		For Schedule 80 Pipe, Add	19.99		
		For Work In Restricted Working Space, Add	7.05		
23 21 13 23-0025	LF	4" Schedule 40, Threaded And Coupled, Black Steel Pipe.....	83.55		16.61
		For Schedule 80 Pipe, Add	28.85		
		For Work In Restricted Working Space, Add	7.49		
23 21 13 23-0026	LF	5" Schedule 40, Threaded And Coupled, Black Steel Pipe.....	109.62		21.23
		For Schedule 80 Pipe, Add	38.20		
		For Work In Restricted Working Space, Add	9.54		
23 21 13 23-0027	LF	6" Schedule 40, Threaded And Coupled, Black Steel Pipe.....	140.25		25.11
		For Schedule 80 Pipe, Add	49.95		
		For Work In Restricted Working Space, Add	11.28		
23 21 13 23-0028	LF	8" Schedule 40, Threaded And Coupled, Black Steel Pipe.....	197.68		30.35
		For Schedule 80 Pipe, Add	73.06		
		For Work In Restricted Working Space, Add	13.63		
23 21 13 23-0029	LF	10" Schedule 40, Threaded And Coupled, Black Steel Pipe.....	271.00		36.98
		For Schedule 80 Pipe, Add	102.52		
		For Work In Restricted Working Space, Add	16.65		
23 21 13 23-0030	LF	12" Schedule 40, Threaded And Coupled, Black Steel Pipe.....	362.60		48.59
		For Schedule 80 Pipe, Add	137.67		
		For Work In Restricted Working Space, Add	21.86		
23 21 13 23-0031		Black Malleable Iron 90 Degree Elbows <small>(23 21 13 23-0014)</small>			
23 21 13 23-0032	EA	3/8", 150 LB, Black Malleable Iron 90 Degree Elbow.....	40.87		20.87
		For 300 LB Rating, Add	24.78		
		For Standard Weight Cast Iron Fittings, Add	0.15		
		For Work In Restricted Working Space, Add	9.40		
23 21 13 23-0033	EA	1/2", 150 LB, Black Malleable Iron 90 Degree Elbow.....	44.22		25.10
		For 300 LB Rating, Add	18.14		
		For Standard Weight Cast Iron Fittings, Add	0.11		
		For Work In Restricted Working Space, Add	11.28		
23 21 13 23-0034	EA	3/4", 150 LB, Black Malleable Iron 90 Degree Elbow.....	50.06		28.06
		For 300 LB Rating, Add	21.68		
		For Standard Weight Cast Iron Fittings, Add	0.13		
		For Work In Restricted Working Space, Add	12.62		
23 21 13 23-0035	EA	1", 150 LB, Black Malleable Iron 90 Degree Elbow.....	60.84		31.29
		For 300 LB Rating, Add	36.06		
		For Standard Weight Cast Iron Fittings, Add	0.22		
		For Work In Restricted Working Space, Add	14.10		
23 21 13 23-0036	EA	1-1/4", 150 LB, Black Malleable Iron 90 Degree Elbow.....	76.05		35.53
		For 300 LB Rating, Add	58.01		
		For Standard Weight Cast Iron Fittings, Add	0.37		
		For Work In Restricted Working Space, Add	15.96		
23 21 13 23-0037	EA	1-1/2", 150 LB, Black Malleable Iron 90 Degree Elbow.....	90.04		40.04
		For 300 LB Rating, Add	75.72		
		For Standard Weight Cast Iron Fittings, Add	0.48		
		For Work In Restricted Working Space, Add	18.00		
23 21 13 23-0038	EA	2", 150 LB, Black Malleable Iron 90 Degree Elbow.....	128.03		50.89
		For 300 LB Rating, Add	128.96		
		For Standard Weight Cast Iron Fittings, Add	0.83		
		For Work In Restricted Working Space, Add	22.86		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0039 EA 2-1/2", 150 LB, Black Malleable Iron 90 Degree Elbow	228.24	75.29
For 300 LB Rating, Add	283.85	
For Standard Weight Cast Iron Fittings, Add	1.85	
For Work In Restricted Working Space, Add	33.84	
23 21 13 23-0040 EA 3", 150 LB, Black Malleable Iron 90 Degree Elbow	317.34	98.97
For 300 LB Rating, Add	414.36	
For Standard Weight Cast Iron Fittings, Add	2.70	
For Work In Restricted Working Space, Add	44.52	
23 21 13 23-0041 EA 4", 150 LB, Black Malleable Iron 90 Degree Elbow	508.61	97.18
For 300 LB Rating, Add	879.66	
For Standard Weight Cast Iron Fittings, Add	5.81	
For Work In Restricted Working Space, Add	43.72	
23 21 13 23-0042 EA 5", 150 LB, Black Malleable Iron 90 Degree Elbow	1,212.45	101.43
For 300 LB Rating, Add	2,554.04	
For Standard Weight Cast Iron Fittings, Add	16.97	
For Work In Restricted Working Space, Add	45.62	
23 21 13 23-0043 EA 6", 150 LB, Black Malleable Iron 90 Degree Elbow	1,383.87	106.05
For 300 LB Rating, Add	2,949.27	
For Standard Weight Cast Iron Fittings, Add	19.60	
For Work In Restricted Working Space, Add	47.69	
23 21 13 23-0044 Black Malleable Iron Reducing 90 Degree Elbows (23 21 13 23-0014)		
23 21 13 23-0045 EA 1/2" x 3/8", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow	47.04	22.98
For 300 LB Rating, Add	32.28	
For Standard Weight Cast Iron Fittings, Add	0.20	
For Work In Restricted Working Space, Add	10.34	
23 21 13 23-0046 EA 3/4" x 1/2", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow	52.80	26.51
For 300 LB Rating, Add	33.49	
For Standard Weight Cast Iron Fittings, Add	0.21	
For Work In Restricted Working Space, Add	11.95	
23 21 13 23-0047 EA 3/4" x 3/8", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow	54.82	24.53
For 300 LB Rating, Add	45.67	
For Standard Weight Cast Iron Fittings, Add	0.29	
For Work In Restricted Working Space, Add	11.01	
23 21 13 23-0048 EA 1" x 3/4", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow	61.19	29.74
For 300 LB Rating, Add	42.63	
For Standard Weight Cast Iron Fittings, Add	0.27	
For Work In Restricted Working Space, Add	13.36	
23 21 13 23-0049 EA 1" x 1/2", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow	60.25	28.20
For 300 LB Rating, Add	45.64	
For Standard Weight Cast Iron Fittings, Add	0.29	
For Work In Restricted Working Space, Add	12.69	
23 21 13 23-0050 EA 1" x 3/8", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow	74.52	26.08
For 300 LB Rating, Add	87.19	
For Standard Weight Cast Iron Fittings, Add	0.57	
For Work In Restricted Working Space, Add	11.75	
23 21 13 23-0051 EA 1-1/4" x 1", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow	78.06	33.42
For 300 LB Rating, Add	70.13	
For Standard Weight Cast Iron Fittings, Add	0.45	
For Work In Restricted Working Space, Add	15.03	
23 21 13 23-0052 EA 1-1/4" x 3/4", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow	78.85	31.72
For 300 LB Rating, Add	77.79	
For Standard Weight Cast Iron Fittings, Add	0.50	
For Work In Restricted Working Space, Add	14.29	
23 21 13 23-0053 EA 1-1/4" x 1/2", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow	81.86	30.31
For 300 LB Rating, Add	90.25	
For Standard Weight Cast Iron Fittings, Add	0.58	
For Work In Restricted Working Space, Add	13.62	
23 21 13 23-0054 EA 1-1/2" x 1-1/4", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow	96.06	37.78
For 300 LB Rating, Add	98.12	
For Standard Weight Cast Iron Fittings, Add	0.63	
For Work In Restricted Working Space, Add	16.98	
23 21 13 23-0055 EA 1-1/2" x 1", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow	92.96	35.67
For 300 LB Rating, Add	97.94	
For Standard Weight Cast Iron Fittings, Add	0.63	
For Work In Restricted Working Space, Add	16.05	
23 21 13 23-0056 EA 1-1/2" x 3/4", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow	96.20	33.98
For 300 LB Rating, Add	111.47	
For Standard Weight Cast Iron Fittings, Add	0.72	
For Work In Restricted Working Space, Add	15.31	
23 21 13 23-0057 EA 2" x 1-1/2", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow	125.28	45.39
For 300 LB Rating, Add	141.32	
For Standard Weight Cast Iron Fittings, Add	0.91	
For Work In Restricted Working Space, Add	20.43	
23 21 13 23-0058 EA 2" x 1-1/4", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow	129.69	43.14
For 300 LB Rating, Add	159.86	
For Standard Weight Cast Iron Fittings, Add	1.04	
For Work In Restricted Working Space, Add	19.41	
23 21 13 23-0059 EA 2" x 1", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow	126.58	41.03
For 300 LB Rating, Add	159.67	
For Standard Weight Cast Iron Fittings, Add	1.04	
For Work In Restricted Working Space, Add	18.48	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0060 EA 2" x 3/4", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow	128.04	39.48
For 300 LB Rating, Add	168.91	
For Standard Weight Cast Iron Fittings, Add	1.10	
For Work In Restricted Working Space, Add	17.74	
23 21 13 23-0061 EA 2-1/2" x 2", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow	251.43	63.02
For 300 LB Rating, Add	382.30	
For Standard Weight Cast Iron Fittings, Add	2.51	
For Work In Restricted Working Space, Add	28.35	
23 21 13 23-0062 EA 2-1/2" x 1-1/2", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow	252.56	57.66
For 300 LB Rating, Add	403.99	
For Standard Weight Cast Iron Fittings, Add	2.66	
For Work In Restricted Working Space, Add	25.92	
23 21 13 23-0063 EA 3" x 2-1/2", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow	424.28	87.12
For 300 LB Rating, Add	712.69	
For Standard Weight Cast Iron Fittings, Add	4.70	
For Work In Restricted Working Space, Add	39.18	
23 21 13 23-0064 EA 3" x 2", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow	366.00	74.87
For 300 LB Rating, Add	615.62	
For Standard Weight Cast Iron Fittings, Add	4.06	
For Work In Restricted Working Space, Add	33.69	
23 21 13 23-0065 EA 4" x 3", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow	640.53	92.43
For 300 LB Rating, Add	1,212.92	
For Standard Weight Cast Iron Fittings, Add	8.03	
For Work In Restricted Working Space, Add	41.58	
23 21 13 23-0066 Black Malleable Iron 45 Degree Elbows (23 21 13 23-0014)		
23 21 13 23-0067 EA 3/8", 150 LB, Black Malleable Iron 45 Degree Elbow	45.70	20.87
For 300 LB Rating, Add	36.37	
For Standard Weight Cast Iron Fittings, Add	0.23	
For Work In Restricted Working Space, Add	9.40	
23 21 13 23-0068 EA 1/2", 150 LB, Black Malleable Iron 45 Degree Elbow	48.53	25.10
For 300 LB Rating, Add	28.49	
For Standard Weight Cast Iron Fittings, Add	0.17	
For Work In Restricted Working Space, Add	11.28	
23 21 13 23-0069 EA 3/4", 150 LB, Black Malleable Iron 45 Degree Elbow	55.58	28.06
For 300 LB Rating, Add	34.92	
For Standard Weight Cast Iron Fittings, Add	0.22	
For Work In Restricted Working Space, Add	12.62	
23 21 13 23-0070 EA 1", 150 LB, Black Malleable Iron 45 Degree Elbow	63.99	31.29
For 300 LB Rating, Add	43.62	
For Standard Weight Cast Iron Fittings, Add	0.27	
For Work In Restricted Working Space, Add	14.10	
23 21 13 23-0071 EA 1-1/4", 150 LB, Black Malleable Iron 45 Degree Elbow	83.29	35.53
For 300 LB Rating, Add	75.38	
For Standard Weight Cast Iron Fittings, Add	0.48	
For Work In Restricted Working Space, Add	15.96	
23 21 13 23-0072 EA 1-1/2", 150 LB, Black Malleable Iron 45 Degree Elbow	97.20	40.04
For 300 LB Rating, Add	92.90	
For Standard Weight Cast Iron Fittings, Add	0.60	
For Work In Restricted Working Space, Add	18.00	
23 21 13 23-0073 EA 2", 150 LB, Black Malleable Iron 45 Degree Elbow	132.46	50.89
For 300 LB Rating, Add	139.60	
For Standard Weight Cast Iron Fittings, Add	0.90	
For Work In Restricted Working Space, Add	22.86	
23 21 13 23-0074 EA 2-1/2", 150 LB, Black Malleable Iron 45 Degree Elbow	275.59	75.29
For 300 LB Rating, Add	397.49	
For Standard Weight Cast Iron Fittings, Add	2.60	
For Work In Restricted Working Space, Add	33.84	
23 21 13 23-0075 EA 3", 150 LB, Black Malleable Iron 45 Degree Elbow	359.86	98.97
For 300 LB Rating, Add	516.41	
For Standard Weight Cast Iron Fittings, Add	3.38	
For Work In Restricted Working Space, Add	44.52	
23 21 13 23-0076 EA 4", 150 LB, Black Malleable Iron 45 Degree Elbow	560.39	97.18
For 300 LB Rating, Add	1,003.93	
For Standard Weight Cast Iron Fittings, Add	6.63	
For Work In Restricted Working Space, Add	43.72	
23 21 13 23-0077 EA 5", 150 LB, Black Malleable Iron 45 Degree Elbow	1,790.01	101.43
For 300 LB Rating, Add	3,940.18	
For Standard Weight Cast Iron Fittings, Add	26.21	
For Work In Restricted Working Space, Add	45.62	
23 21 13 23-0078 EA 6", 150 LB, Black Malleable Iron 45 Degree Elbow	1,834.77	106.05
For 300 LB Rating, Add	4,031.43	
For Standard Weight Cast Iron Fittings, Add	26.81	
For Work In Restricted Working Space, Add	47.69	
23 21 13 23-0079 Black Malleable Iron Tees (23 21 13 23-0014)		
23 21 13 23-0080 EA 3/8", 150 LB, Black Malleable Iron Tee	53.01	25.80
For 300 LB Rating, Add	35.59	
For Standard Weight Cast Iron Fittings, Add	0.22	
For Work In Restricted Working Space, Add	11.75	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0081 EA 1/2", 150 LB, Black Malleable Iron Tee.....	55.83	31.29
For 300 LB Rating, Add	24.04	
For Standard Weight Cast Iron Fittings, Add	0.14	
For Work In Restricted Working Space, Add	14.10	
23 21 13 23-0082 EA 3/4", 150 LB, Black Malleable Iron Tee.....	66.90	36.23
For 300 LB Rating, Add	33.69	
For Standard Weight Cast Iron Fittings, Add	0.20	
For Work In Restricted Working Space, Add	16.27	
23 21 13 23-0083 EA 1", 150 LB, Black Malleable Iron Tee.....	85.82	42.72
For 300 LB Rating, Add	56.00	
For Standard Weight Cast Iron Fittings, Add	0.35	
For Work In Restricted Working Space, Add	19.23	
23 21 13 23-0084 EA 1-1/4", 150 LB, Black Malleable Iron Tee.....	111.38	50.89
For 300 LB Rating, Add	89.00	
For Standard Weight Cast Iron Fittings, Add	0.56	
For Work In Restricted Working Space, Add	22.86	
23 21 13 23-0085 EA 1-1/2", 150 LB, Black Malleable Iron Tee.....	134.70	60.63
For 300 LB Rating, Add	110.46	
For Standard Weight Cast Iron Fittings, Add	0.70	
For Work In Restricted Working Space, Add	27.29	
23 21 13 23-0086 EA 2", 150 LB, Black Malleable Iron Tee.....	187.36	75.29
For 300 LB Rating, Add	185.74	
For Standard Weight Cast Iron Fittings, Add	1.19	
For Work In Restricted Working Space, Add	33.84	
23 21 13 23-0087 EA 2-1/2", 150 LB, Black Malleable Iron Tee.....	309.17	98.97
For 300 LB Rating, Add	394.75	
For Standard Weight Cast Iron Fittings, Add	2.57	
For Work In Restricted Working Space, Add	44.52	
23 21 13 23-0088 EA 3", 150 LB, Black Malleable Iron Tee.....	413.03	117.58
For 300 LB Rating, Add	578.89	
For Standard Weight Cast Iron Fittings, Add	3.79	
For Work In Restricted Working Space, Add	52.87	
23 21 13 23-0089 EA 4", 150 LB, Black Malleable Iron Tee.....	756.44	122.79
For 300 LB Rating, Add	1,384.71	
For Standard Weight Cast Iron Fittings, Add	9.16	
For Work In Restricted Working Space, Add	55.22	
23 21 13 23-0090 EA 5", 150 LB, Black Malleable Iron Tee.....	1,953.04	145.77
For 300 LB Rating, Add	4,175.77	
For Standard Weight Cast Iron Fittings, Add	27.75	
For Work In Restricted Working Space, Add	65.58	
23 21 13 23-0091 EA 6", 150 LB, Black Malleable Iron Tee.....	2,111.19	166.63
For 300 LB Rating, Add	4,482.25	
For Standard Weight Cast Iron Fittings, Add	29.78	
For Work In Restricted Working Space, Add	74.95	
23 21 13 23-0092 Black Malleable Iron Reducing Tees (23 21 13 23-0014)		
23 21 13 23-0093 EA 1/2", 150 LB, Black Malleable Iron Reducing Tee.....	62.03	31.29
For 300 LB Rating, Add	38.92	
For Standard Weight Cast Iron Fittings, Add	0.24	
For Work In Restricted Working Space, Add	14.10	
23 21 13 23-0094 EA 3/4", 150 LB, Black Malleable Iron Reducing Tee.....	73.84	36.23
For 300 LB Rating, Add	50.34	
For Standard Weight Cast Iron Fittings, Add	0.31	
For Work In Restricted Working Space, Add	16.27	
23 21 13 23-0095 EA 1", 150 LB, Black Malleable Iron Reducing Tee.....	88.84	42.72
For 300 LB Rating, Add	63.25	
For Standard Weight Cast Iron Fittings, Add	0.40	
For Work In Restricted Working Space, Add	19.23	
23 21 13 23-0096 EA 1-1/4", 150 LB, Black Malleable Iron Reducing Tee.....	124.86	50.89
For 300 LB Rating, Add	121.36	
For Standard Weight Cast Iron Fittings, Add	0.78	
For Work In Restricted Working Space, Add	22.86	
23 21 13 23-0097 EA 1-1/2", 150 LB, Black Malleable Iron Reducing Tee.....	144.86	60.63
For 300 LB Rating, Add	134.84	
For Standard Weight Cast Iron Fittings, Add	0.86	
For Work In Restricted Working Space, Add	27.29	
23 21 13 23-0098 EA 2", 150 LB, Black Malleable Iron Reducing Tee.....	191.05	75.29
For 300 LB Rating, Add	194.59	
For Standard Weight Cast Iron Fittings, Add	1.25	
For Work In Restricted Working Space, Add	33.84	
23 21 13 23-0099 EA 2-1/2", 150 LB, Black Malleable Iron Reducing Tee.....	392.26	98.97
For 300 LB Rating, Add	594.17	
For Standard Weight Cast Iron Fittings, Add	3.90	
For Work In Restricted Working Space, Add	44.52	
23 21 13 23-0100 EA 3", 150 LB, Black Malleable Iron Reducing Tee.....	455.55	117.58
For 300 LB Rating, Add	680.94	
For Standard Weight Cast Iron Fittings, Add	4.47	
For Work In Restricted Working Space, Add	52.87	
23 21 13 23-0101 EA 4", 150 LB, Black Malleable Iron Reducing Tee.....	861.48	122.79
For 300 LB Rating, Add	1,636.80	
For Standard Weight Cast Iron Fittings, Add	10.84	
For Work In Restricted Working Space, Add	55.22	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-0102	EA	5", 150 LB, Black Malleable Iron Reducing Tee..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,789.82 3,784.04 25.14 65.58	145.77
23 21	13 23-0103	EA	6", 150 LB, Black Malleable Iron Reducing Tee..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,031.96 4,292.10 28.51 74.95	166.63
23 21 13 23-0104 Black Malleable Iron Couplings (23 21 13 23-0014)					
23 21	13 23-0105	EA	3/8", 150 LB, Black Malleable Iron Coupling..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	43.20 30.37 0.19 9.40	20.87
23 21	13 23-0106	EA	1/2", 150 LB, Black Malleable Iron Coupling..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	46.74 24.19 0.15 11.28	25.10
23 21	13 23-0107	EA	3/4", 150 LB, Black Malleable Iron Coupling..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	52.78 28.20 0.17 12.62	28.06
23 21	13 23-0108	EA	1", 150 LB, Black Malleable Iron Coupling..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	63.02 41.29 0.26 14.10	31.29
23 21	13 23-0109	EA	1-1/4", 150 LB, Black Malleable Iron Coupling..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	73.97 53.02 0.33 15.96	35.53
23 21	13 23-0110	EA	1-1/2", 150 LB, Black Malleable Iron Coupling..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	88.04 70.92 0.45 18.00	40.04
23 21	13 23-0111	EA	2", 150 LB, Black Malleable Iron Coupling..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	117.77 104.34 0.67 22.86	50.89
23 21	13 23-0112	EA	2-1/2", 150 LB, Black Malleable Iron Coupling..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	227.50 282.07 1.84 33.84	75.29
23 21	13 23-0113	EA	3", 150 LB, Black Malleable Iron Coupling..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	303.49 381.12 2.48 44.52	98.97
23 21	13 23-0114	EA	4", 150 LB, Black Malleable Iron Coupling..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	458.07 758.36 5.00 43.72	97.18
23 21	13 23-0115	EA	5", 150 LB, Black Malleable Iron Coupling..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,031.56 2,119.90 14.07 45.62	101.43
23 21	13 23-0116	EA	6", 150 LB, Black Malleable Iron Coupling..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,160.94 2,414.24 16.03 47.69	106.05
23 21 13 23-0117 Black Malleable Iron Reducing Couplings (23 21 13 23-0014)					
23 21	13 23-0118	EA	1/2", 150 LB, Black Malleable Iron Reducing Coupling..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	48.95 29.50 0.18 11.28	25.10
23 21	13 23-0119	EA	3/4", 150 LB, Black Malleable Iron Reducing Coupling..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	54.10 31.37 0.19 12.62	28.06
23 21	13 23-0120	EA	1", 150 LB, Black Malleable Iron Reducing Coupling..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	65.70 47.72 0.30 14.10	31.29
23 21	13 23-0121	EA	1-1/4", 150 LB, Black Malleable Iron Reducing Coupling..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	77.27 60.94 0.38 15.96	35.53
23 21	13 23-0122	EA	1-1/2", 150 LB, Black Malleable Iron Reducing Coupling..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	90.39 76.56 0.49 18.00	40.04



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0123 EA 2", 150 LB, Black Malleable Iron Reducing Coupling.....	120.25	50.89
For 300 LB Rating, Add	110.29	
For Standard Weight Cast Iron Fittings, Add	0.70	
For Work In Restricted Working Space, Add	22.86	
23 21 13 23-0124 EA 2-1/2", 150 LB, Black Malleable Iron Reducing Coupling.....	242.98	75.29
For 300 LB Rating, Add	319.22	
For Standard Weight Cast Iron Fittings, Add	2.08	
For Work In Restricted Working Space, Add	33.84	
23 21 13 23-0125 EA 3", 150 LB, Black Malleable Iron Reducing Coupling.....	306.66	98.97
For 300 LB Rating, Add	388.73	
For Standard Weight Cast Iron Fittings, Add	2.53	
For Work In Restricted Working Space, Add	44.52	
23 21 13 23-0126 EA 4", 150 LB, Black Malleable Iron Reducing Coupling.....	462.95	97.18
For 300 LB Rating, Add	770.07	
For Standard Weight Cast Iron Fittings, Add	5.08	
For Work In Restricted Working Space, Add	43.72	
23 21 13 23-0127 EA 5", 150 LB, Black Malleable Iron Reducing Coupling.....	865.08	101.43
For 300 LB Rating, Add	1,720.35	
For Standard Weight Cast Iron Fittings, Add	11.41	
For Work In Restricted Working Space, Add	45.62	
23 21 13 23-0128 EA 6", 150 LB, Black Malleable Iron Reducing Coupling.....	1,074.77	106.05
For 300 LB Rating, Add	2,207.43	
For Standard Weight Cast Iron Fittings, Add	14.65	
For Work In Restricted Working Space, Add	47.69	
23 21 13 23-0129 Black Malleable Iron Caps (23 21 13 23-0014)		
23 21 13 23-0130 EA 1/2", 150 LB, Black Malleable Iron Cap.....	23.60	11.14
For 300 LB Rating, Add	17.07	
For Standard Weight Cast Iron Fittings, Add	0.11	
For Work In Restricted Working Space, Add	5.07	
23 21 13 23-0131 EA 3/4", 150 LB, Black Malleable Iron Cap.....	27.97	12.55
For 300 LB Rating, Add	22.83	
For Standard Weight Cast Iron Fittings, Add	0.14	
For Work In Restricted Working Space, Add	5.68	
23 21 13 23-0132 EA 1", 150 LB, Black Malleable Iron Cap.....	32.10	13.96
For 300 LB Rating, Add	27.55	
For Standard Weight Cast Iron Fittings, Add	0.18	
For Work In Restricted Working Space, Add	6.35	
23 21 13 23-0133 EA 1-1/4", 150 LB, Black Malleable Iron Cap.....	38.36	15.79
For 300 LB Rating, Add	36.04	
For Standard Weight Cast Iron Fittings, Add	0.23	
For Work In Restricted Working Space, Add	7.18	
23 21 13 23-0134 EA 1-1/2", 150 LB, Black Malleable Iron Cap.....	46.82	17.77
For 300 LB Rating, Add	49.19	
For Standard Weight Cast Iron Fittings, Add	0.32	
For Work In Restricted Working Space, Add	8.10	
23 21 13 23-0135 EA 2", 150 LB, Black Malleable Iron Cap.....	63.23	22.70
For 300 LB Rating, Add	71.51	
For Standard Weight Cast Iron Fittings, Add	0.46	
For Work In Restricted Working Space, Add	10.29	
23 21 13 23-0136 EA 2-1/2", 150 LB, Black Malleable Iron Cap.....	117.15	33.56
For 300 LB Rating, Add	162.41	
For Standard Weight Cast Iron Fittings, Add	1.06	
For Work In Restricted Working Space, Add	15.23	
23 21 13 23-0137 EA 3", 150 LB, Black Malleable Iron Cap.....	164.69	44.12
For 300 LB Rating, Add	238.99	
For Standard Weight Cast Iron Fittings, Add	1.57	
For Work In Restricted Working Space, Add	20.03	
23 21 13 23-0138 EA 4", 150 LB, Black Malleable Iron Cap.....	233.48	43.34
For 300 LB Rating, Add	406.89	
For Standard Weight Cast Iron Fittings, Add	2.69	
For Work In Restricted Working Space, Add	19.67	
23 21 13 23-0139 EA 5", 150 LB, Black Malleable Iron Cap.....	468.60	45.21
For 300 LB Rating, Add	964.51	
For Standard Weight Cast Iron Fittings, Add	6.40	
For Work In Restricted Working Space, Add	20.53	
23 21 13 23-0140 EA 6", 150 LB, Black Malleable Iron Cap.....	805.08	47.22
For 300 LB Rating, Add	1,764.79	
For Standard Weight Cast Iron Fittings, Add	11.74	
For Work In Restricted Working Space, Add	21.46	
23 21 13 23-0141 Black Malleable Iron Unions (23 21 13 23-0014)		
23 21 13 23-0142 EA 3/8", 150 LB, Black Malleable Iron Union.....	63.39	20.87
For Work In Restricted Working Space, Add	9.40	
23 21 13 23-0143 EA 1/2", 150 LB, Black Malleable Iron Union.....	76.00	31.29
For Work In Restricted Working Space, Add	14.10	
23 21 13 23-0144 EA 3/4", 150 LB, Black Malleable Iron Union.....	87.57	36.23
For Work In Restricted Working Space, Add	16.27	
23 21 13 23-0145 EA 1", 150 LB, Black Malleable Iron Union.....	107.57	42.72
For Work In Restricted Working Space, Add	19.23	
23 21 13 23-0146 EA 1-1/4", 150 LB, Black Malleable Iron Union.....	138.56	50.89
For Work In Restricted Working Space, Add	22.86	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0147 EA 1-1/2", 150 LB, Black Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	168.69 27.29	60.63
23 21 13 23-0148 EA 2", 150 LB, Black Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	203.19 33.84	75.29
23 21 13 23-0149 EA 2-1/2", 150 LB, Black Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	435.82 49.95	110.96
23 21 13 23-0150 EA 3", 150 LB, Black Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	543.30 65.72	145.92
23 21 13 23-0151 EA 3/8", 250 LB, Black Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	73.69 9.40	20.87
23 21 13 23-0152 EA 1/2", 250 LB, Black Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	95.60 14.10	31.29
23 21 13 23-0153 EA 3/4", 250 LB, Black Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	102.04 16.27	36.23
23 21 13 23-0154 EA 1", 250 LB, Black Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	122.75 19.22	42.72
23 21 13 23-0155 EA 1-1/4", 250 LB, Black Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	174.63 22.86	50.89
23 21 13 23-0156 EA 1-1/2", 250 LB, Black Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	204.28 27.29	60.63
23 21 13 23-0157 EA 2", 250 LB, Black Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	258.17 33.84	75.29
23 21 13 23-0158 EA 2-1/2", 250 LB, Black Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	622.19 49.95	110.96
23 21 13 23-0159 EA 3", 250 LB, Black Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	752.38 65.72	145.92
23 21 13 23-0160 EA 4", 250 LB, Black Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	1,160.43 64.54	143.41
23 21 13 23-0161 EA 3/8", 300 LB, Black Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	100.07 9.40	20.87
23 21 13 23-0162 EA 1/2", 300 LB, Black Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	102.61 14.10	31.29
23 21 13 23-0163 EA 3/4", 300 LB, Black Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	115.81 16.27	36.23
23 21 13 23-0164 EA 1", 300 LB, Black Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	144.50 19.22	42.72
23 21 13 23-0165 EA 1-1/4", 300 LB, Black Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	207.36 22.86	50.89
23 21 13 23-0166 EA 1-1/2", 300 LB, Black Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	228.31 27.29	60.63
23 21 13 23-0167 EA 2", 300 LB, Black Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	282.92 33.84	75.29
23 21 13 23-0168 EA 2-1/2", 300 LB, Black Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	715.02 49.95	110.96
23 21 13 23-0169 EA 3", 300 LB, Black Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	928.68 65.72	145.92
23 21 13 23-0170 EA 4", 300 LB, Black Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	2,467.37 64.54	143.41
23 21 13 23-0171 Black Steel Nipples <small>(23 21 13 23-0014)</small>		
23 21 13 23-0172 EA 3/8" x Close, Schedule 40 Black Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	25.04 2.45 6.04	13.39
23 21 13 23-0173 EA 1/2" x Close, Schedule 40 Black Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	24.27 2.07 6.04	13.39
23 21 13 23-0174 EA 3/4" x Close, Schedule 40 Black Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	24.89 2.38 6.04	13.39
23 21 13 23-0175 EA 1" x Close, Schedule 40 Black Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	28.58 3.45 6.51	14.52
23 21 13 23-0176 EA 1-1/4" x Close, Schedule 40 Black Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	32.23 4.37 7.05	15.65
23 21 13 23-0177 EA 1-1/2" x Close, Schedule 40 Black Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	34.37 5.44 7.05	15.65
23 21 13 23-0178 EA 2" x Close, Schedule 40 Black Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	45.12 7.40 9.10	20.16
23 21 13 23-0179 EA 2-1/2" x Close, Schedule 40 Black Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	83.94 23.17 11.28	25.10
23 21 13 23-0180 EA 3" x Close, Schedule 40 Black Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	100.54 27.53 13.64	30.31
23 21 13 23-0181 EA 4" x Close, Schedule 40 Black Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	132.89 41.46 14.99	33.35
23 21 13 23-0182 EA 3/8" x 1-1/2" Long, Schedule 40 Black Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	25.70 2.78 6.04	13.39



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0183 EA 1/2" x 1-1/2" Long, Schedule 40 Black Steel Nipple	24.27	13.39
For Schedule 80 Nipples, Add	2.07	
For Work In Restricted Working Space, Add	6.04	
23 21 13 23-0184 EA 3/4" x 1-1/2" Long, Schedule 40 Black Steel Nipple	25.24	13.39
For Schedule 80 Nipples, Add	2.55	
For Work In Restricted Working Space, Add	6.04	
23 21 13 23-0185 EA 3/8" x 2" Long, Schedule 40 Black Steel Nipple.....	25.70	13.39
For Schedule 80 Nipples, Add	2.78	
For Work In Restricted Working Space, Add	6.04	
23 21 13 23-0186 EA 1/2" x 2" Long, Schedule 40 Black Steel Nipple.....	24.27	13.39
For Schedule 80 Nipples, Add	2.07	
For Work In Restricted Working Space, Add	6.04	
23 21 13 23-0187 EA 3/4" x 2" Long, Schedule 40 Black Steel Nipple.....	25.24	13.39
For Schedule 80 Nipples, Add	2.55	
For Work In Restricted Working Space, Add	6.04	
23 21 13 23-0188 EA 1" x 2" Long, Schedule 40 Black Steel Nipple.....	29.24	14.52
For Schedule 80 Nipples, Add	3.78	
For Work In Restricted Working Space, Add	6.51	
23 21 13 23-0189 EA 1-1/4" x 2" Long, Schedule 40 Black Steel Nipple	33.40	15.65
For Schedule 80 Nipples, Add	4.95	
For Work In Restricted Working Space, Add	7.05	
23 21 13 23-0190 EA 1-1/2" x 2" Long, Schedule 40 Black Steel Nipple	35.24	15.65
For Schedule 80 Nipples, Add	5.87	
For Work In Restricted Working Space, Add	7.05	
23 21 13 23-0191 EA 3/8" x 2-1/2" Long, Schedule 40 Black Steel Nipple	27.28	13.39
For Schedule 80 Nipples, Add	3.57	
For Work In Restricted Working Space, Add	6.04	
23 21 13 23-0192 EA 1/2" x 2-1/2" Long, Schedule 40 Black Steel Nipple	25.04	13.39
For Schedule 80 Nipples, Add	2.45	
For Work In Restricted Working Space, Add	6.04	
23 21 13 23-0193 EA 3/4" x 2-1/2" Long, Schedule 40 Black Steel Nipple	25.91	13.39
For Schedule 80 Nipples, Add	2.89	
For Work In Restricted Working Space, Add	6.04	
23 21 13 23-0194 EA 1" x 2-1/2" Long, Schedule 40 Black Steel Nipple	29.70	14.52
For Schedule 80 Nipples, Add	4.01	
For Work In Restricted Working Space, Add	6.51	
23 21 13 23-0195 EA 1-1/4" x 2-1/2" Long, Schedule 40 Black Steel Nipple	34.01	15.65
For Schedule 80 Nipples, Add	5.26	
For Work In Restricted Working Space, Add	7.05	
23 21 13 23-0196 EA 1-1/2" x 2-1/2" Long, Schedule 40 Black Steel Nipple	36.61	15.65
For Schedule 80 Nipples, Add	6.56	
For Work In Restricted Working Space, Add	7.05	
23 21 13 23-0197 EA 2" x 2-1/2" Long, Schedule 40 Black Steel Nipple	47.31	20.16
For Schedule 80 Nipples, Add	8.50	
For Work In Restricted Working Space, Add	9.10	
23 21 13 23-0198 EA 3/8" x 3" Long, Schedule 40 Black Steel Nipple.....	27.28	13.39
For Schedule 80 Nipples, Add	3.57	
For Work In Restricted Working Space, Add	6.04	
23 21 13 23-0199 EA 1/2" x 3" Long, Schedule 40 Black Steel Nipple.....	25.04	13.39
For Schedule 80 Nipples, Add	2.45	
For Work In Restricted Working Space, Add	6.04	
23 21 13 23-0200 EA 3/4" x 3" Long, Schedule 40 Black Steel Nipple.....	25.91	13.39
For Schedule 80 Nipples, Add	2.89	
For Work In Restricted Working Space, Add	6.04	
23 21 13 23-0201 EA 1" x 3" Long, Schedule 40 Black Steel Nipple.....	29.70	14.52
For Schedule 80 Nipples, Add	4.01	
For Work In Restricted Working Space, Add	6.51	
23 21 13 23-0202 EA 1-1/4" x 3" Long, Schedule 40 Black Steel Nipple	34.01	15.65
For Schedule 80 Nipples, Add	5.26	
For Work In Restricted Working Space, Add	7.05	
23 21 13 23-0203 EA 1-1/2" x 3" Long, Schedule 40 Black Steel Nipple	36.61	15.65
For Schedule 80 Nipples, Add	6.56	
For Work In Restricted Working Space, Add	7.05	
23 21 13 23-0204 EA 2" x 3" Long, Schedule 40 Black Steel Nipple.....	47.31	20.16
For Schedule 80 Nipples, Add	8.50	
For Work In Restricted Working Space, Add	9.10	
23 21 13 23-0205 EA 2-1/2" x 3" Long, Schedule 40 Black Steel Nipple	85.16	25.10
For Schedule 80 Nipples, Add	23.78	
For Work In Restricted Working Space, Add	11.28	
23 21 13 23-0206 EA 3" x 3" Long, Schedule 40 Black Steel Nipple.....	105.34	30.31
For Schedule 80 Nipples, Add	29.93	
For Work In Restricted Working Space, Add	13.64	
23 21 13 23-0207 EA 3/8" x 3-1/2" Long, Schedule 40 Black Steel Nipple	28.56	13.39
For Schedule 80 Nipples, Add	4.21	
For Work In Restricted Working Space, Add	6.04	
23 21 13 23-0208 EA 1/2" x 3-1/2" Long, Schedule 40 Black Steel Nipple	26.01	13.39
For Schedule 80 Nipples, Add	2.94	
For Work In Restricted Working Space, Add	6.04	
23 21 13 23-0209 EA 3/4" x 3-1/2" Long, Schedule 40 Black Steel Nipple	27.28	13.39
For Schedule 80 Nipples, Add	3.57	
For Work In Restricted Working Space, Add	6.04	
23 21 13 23-0210 EA 1" x 3-1/2" Long, Schedule 40 Black Steel Nipple	31.59	14.52
For Schedule 80 Nipples, Add	4.95	
For Work In Restricted Working Space, Add	6.51	

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 20 HVAC Piping and Pumps

23 21 Hydronic Piping and Pumps



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-0211	EA	1-1/4" x 3-1/2" Long, Schedule 40 Black Steel Nipple	35.95	15.65
			<i>For Schedule 80 Nipples, Add</i>	6.23	
			<i>For Work In Restricted Working Space, Add</i>	7.05	
23 21	13 23-0212	EA	1-1/2" x 3-1/2" Long, Schedule 40 Black Steel Nipple	38.20	15.65
			<i>For Schedule 80 Nipples, Add</i>	7.35	
			<i>For Work In Restricted Working Space, Add</i>	7.05	
23 21	13 23-0213	EA	2" x 3-1/2" Long, Schedule 40 Black Steel Nipple	50.89	20.16
			<i>For Schedule 80 Nipples, Add</i>	10.29	
			<i>For Work In Restricted Working Space, Add</i>	9.10	
23 21	13 23-0214	EA	2-1/2" x 3-1/2" Long, Schedule 40 Black Steel Nipple	93.53	25.10
			<i>For Schedule 80 Nipples, Add</i>	27.97	
			<i>For Work In Restricted Working Space, Add</i>	11.28	
23 21	13 23-0215	EA	3" x 3-1/2" Long, Schedule 40 Black Steel Nipple	116.36	30.31
			<i>For Schedule 80 Nipples, Add</i>	35.44	
			<i>For Work In Restricted Working Space, Add</i>	13.64	
23 21	13 23-0216	EA	3/8" x 4" Long, Schedule 40 Black Steel Nipple	28.56	13.39
			<i>For Schedule 80 Nipples, Add</i>	4.21	
			<i>For Work In Restricted Working Space, Add</i>	6.04	
23 21	13 23-0217	EA	1/2" x 4" Long, Schedule 40 Black Steel Nipple	26.01	13.39
			<i>For Schedule 80 Nipples, Add</i>	2.94	
			<i>For Work In Restricted Working Space, Add</i>	6.04	
23 21	13 23-0218	EA	3/4" x 4" Long, Schedule 40 Black Steel Nipple	27.28	13.39
			<i>For Schedule 80 Nipples, Add</i>	3.57	
			<i>For Work In Restricted Working Space, Add</i>	6.04	
23 21	13 23-0219	EA	1" x 4" Long, Schedule 40 Black Steel Nipple	31.59	14.52
			<i>For Schedule 80 Nipples, Add</i>	4.95	
			<i>For Work In Restricted Working Space, Add</i>	6.51	
23 21	13 23-0220	EA	1-1/4" x 4" Long, Schedule 40 Black Steel Nipple	35.95	15.65
			<i>For Schedule 80 Nipples, Add</i>	6.23	
			<i>For Work In Restricted Working Space, Add</i>	7.05	
23 21	13 23-0221	EA	1-1/2" x 4" Long, Schedule 40 Black Steel Nipple	38.20	15.65
			<i>For Schedule 80 Nipples, Add</i>	7.35	
			<i>For Work In Restricted Working Space, Add</i>	7.05	
23 21	13 23-0222	EA	2" x 4" Long, Schedule 40 Black Steel Nipple	50.89	20.16
			<i>For Schedule 80 Nipples, Add</i>	10.29	
			<i>For Work In Restricted Working Space, Add</i>	9.10	
23 21	13 23-0223	EA	2-1/2" x 4" Long, Schedule 40 Black Steel Nipple	93.53	25.10
			<i>For Schedule 80 Nipples, Add</i>	27.97	
			<i>For Work In Restricted Working Space, Add</i>	11.28	
23 21	13 23-0224	EA	3" x 4" Long, Schedule 40 Black Steel Nipple	116.36	30.31
			<i>For Schedule 80 Nipples, Add</i>	35.44	
			<i>For Work In Restricted Working Space, Add</i>	13.64	
23 21	13 23-0225	EA	4" x 4" Long, Schedule 40 Black Steel Nipple	145.91	33.35
			<i>For Schedule 80 Nipples, Add</i>	47.97	
			<i>For Work In Restricted Working Space, Add</i>	14.99	
23 21	13 23-0226	EA	3/8" x 4-1/2" Long, Schedule 40 Black Steel Nipple	32.29	13.39
			<i>For Schedule 80 Nipples, Add</i>	6.08	
			<i>For Work In Restricted Working Space, Add</i>	6.04	
23 21	13 23-0227	EA	1/2" x 4-1/2" Long, Schedule 40 Black Steel Nipple	27.03	13.39
			<i>For Schedule 80 Nipples, Add</i>	3.45	
			<i>For Work In Restricted Working Space, Add</i>	6.04	
23 21	13 23-0228	EA	3/4" x 4-1/2" Long, Schedule 40 Black Steel Nipple	29.12	13.39
			<i>For Schedule 80 Nipples, Add</i>	4.49	
			<i>For Work In Restricted Working Space, Add</i>	6.04	
23 21	13 23-0229	EA	1" x 4-1/2" Long, Schedule 40 Black Steel Nipple	33.43	14.52
			<i>For Schedule 80 Nipples, Add</i>	5.87	
			<i>For Work In Restricted Working Space, Add</i>	6.51	
23 21	13 23-0230	EA	1-1/4" x 4-1/2" Long, Schedule 40 Black Steel Nipple	38.40	15.65
			<i>For Schedule 80 Nipples, Add</i>	7.45	
			<i>For Work In Restricted Working Space, Add</i>	7.05	
23 21	13 23-0231	EA	1-1/2" x 4-1/2" Long, Schedule 40 Black Steel Nipple	41.46	15.65
			<i>For Schedule 80 Nipples, Add</i>	8.98	
			<i>For Work In Restricted Working Space, Add</i>	7.05	
23 21	13 23-0232	EA	2" x 4-1/2" Long, Schedule 40 Black Steel Nipple	54.00	20.16
			<i>For Schedule 80 Nipples, Add</i>	11.84	
			<i>For Work In Restricted Working Space, Add</i>	9.10	
23 21	13 23-0233	EA	2-1/2" x 4-1/2" Long, Schedule 40 Black Steel Nipple	99.04	25.10
			<i>For Schedule 80 Nipples, Add</i>	30.72	
			<i>For Work In Restricted Working Space, Add</i>	11.28	
23 21	13 23-0234	EA	3" x 4-1/2" Long, Schedule 40 Black Steel Nipple	123.66	30.31
			<i>For Schedule 80 Nipples, Add</i>	39.09	
			<i>For Work In Restricted Working Space, Add</i>	13.64	
23 21	13 23-0235	EA	4" x 4-1/2" Long, Schedule 40 Black Steel Nipple	159.58	33.35
			<i>For Schedule 80 Nipples, Add</i>	54.81	
			<i>For Work In Restricted Working Space, Add</i>	14.99	
23 21	13 23-0236	EA	3/8" x 5" Long, Schedule 40 Black Steel Nipple	32.29	13.39
			<i>For Schedule 80 Nipples, Add</i>	6.08	
			<i>For Work In Restricted Working Space, Add</i>	6.04	
23 21	13 23-0237	EA	1/2" x 5" Long, Schedule 40 Black Steel Nipple	27.03	13.39
			<i>For Schedule 80 Nipples, Add</i>	3.45	
			<i>For Work In Restricted Working Space, Add</i>	6.04	
23 21	13 23-0238	EA	3/4" x 5" Long, Schedule 40 Black Steel Nipple	29.12	13.39
			<i>For Schedule 80 Nipples, Add</i>	4.49	
			<i>For Work In Restricted Working Space, Add</i>	6.04	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0239 EA 1" x 5" Long, Schedule 40 Black Steel Nipple.....	33.43	14.52
<i>For Schedule 80 Nipples, Add</i>	5.87	
<i>For Work In Restricted Working Space, Add</i>	6.51	
23 21 13 23-0240 EA 1-1/4" x 5" Long, Schedule 40 Black Steel Nipple	38.40	15.65
<i>For Schedule 80 Nipples, Add</i>	7.45	
<i>For Work In Restricted Working Space, Add</i>	7.05	
23 21 13 23-0241 EA 1-1/2" x 5" Long, Schedule 40 Black Steel Nipple	41.46	15.65
<i>For Schedule 80 Nipples, Add</i>	8.98	
<i>For Work In Restricted Working Space, Add</i>	7.05	
23 21 13 23-0242 EA 2" x 5" Long, Schedule 40 Black Steel Nipple.....	54.00	20.16
<i>For Schedule 80 Nipples, Add</i>	11.84	
<i>For Work In Restricted Working Space, Add</i>	9.10	
23 21 13 23-0243 EA 2-1/2" x 5" Long, Schedule 40 Black Steel Nipple	99.04	25.10
<i>For Schedule 80 Nipples, Add</i>	30.72	
<i>For Work In Restricted Working Space, Add</i>	11.28	
23 21 13 23-0244 EA 3" x 5" Long, Schedule 40 Black Steel Nipple.....	123.66	30.31
<i>For Schedule 80 Nipples, Add</i>	39.09	
<i>For Work In Restricted Working Space, Add</i>	13.64	
23 21 13 23-0245 EA 4" x 5" Long, Schedule 40 Black Steel Nipple.....	159.58	33.35
<i>For Schedule 80 Nipples, Add</i>	54.81	
<i>For Work In Restricted Working Space, Add</i>	14.99	
23 21 13 23-0246 EA 3/8" x 6" Long, Schedule 40 Black Steel Nipple.....	33.66	13.39
<i>For Schedule 80 Nipples, Add</i>	6.76	
<i>For Work In Restricted Working Space, Add</i>	6.04	
23 21 13 23-0247 EA 1/2" x 6" Long, Schedule 40 Black Steel Nipple.....	27.85	13.39
<i>For Schedule 80 Nipples, Add</i>	3.86	
<i>For Work In Restricted Working Space, Add</i>	6.04	
23 21 13 23-0248 EA 3/4" x 6" Long, Schedule 40 Black Steel Nipple.....	30.35	13.39
<i>For Schedule 80 Nipples, Add</i>	5.11	
<i>For Work In Restricted Working Space, Add</i>	6.04	
23 21 13 23-0249 EA 1" x 6" Long, Schedule 40 Black Steel Nipple.....	35.57	14.52
<i>For Schedule 80 Nipples, Add</i>	6.94	
<i>For Work In Restricted Working Space, Add</i>	6.51	
23 21 13 23-0250 EA 1-1/4" x 6" Long, Schedule 40 Black Steel Nipple	41.16	15.65
<i>For Schedule 80 Nipples, Add</i>	8.83	
<i>For Work In Restricted Working Space, Add</i>	7.05	
23 21 13 23-0251 EA 1-1/2" x 6" Long, Schedule 40 Black Steel Nipple	44.12	15.65
<i>For Schedule 80 Nipples, Add</i>	10.31	
<i>For Work In Restricted Working Space, Add</i>	7.05	
23 21 13 23-0252 EA 2" x 6" Long, Schedule 40 Black Steel Nipple.....	58.08	20.16
<i>For Schedule 80 Nipples, Add</i>	13.88	
<i>For Work In Restricted Working Space, Add</i>	9.10	
23 21 13 23-0253 EA 2-1/2" x 6" Long, Schedule 40 Black Steel Nipple	101.64	25.10
<i>For Schedule 80 Nipples, Add</i>	32.02	
<i>For Work In Restricted Working Space, Add</i>	11.28	
23 21 13 23-0254 EA 3" x 6" Long, Schedule 40 Black Steel Nipple.....	130.45	30.31
<i>For Schedule 80 Nipples, Add</i>	42.49	
<i>For Work In Restricted Working Space, Add</i>	13.64	
23 21 13 23-0255 EA 4" x 6" Long, Schedule 40 Black Steel Nipple.....	167.14	33.35
<i>For Schedule 80 Nipples, Add</i>	58.59	
<i>For Work In Restricted Working Space, Add</i>	14.99	
23 21 13 23-0256 EA 3/8" x 8" Long, Schedule 40 Black Steel Nipple.....	43.87	13.39
<i>For Schedule 80 Nipples, Add</i>	11.87	
<i>For Work In Restricted Working Space, Add</i>	6.04	
23 21 13 23-0257 EA 1/2" x 8" Long, Schedule 40 Black Steel Nipple.....	34.02	13.39
<i>For Schedule 80 Nipples, Add</i>	6.94	
<i>For Work In Restricted Working Space, Add</i>	6.04	
23 21 13 23-0258 EA 3/4" x 8" Long, Schedule 40 Black Steel Nipple.....	37.13	13.39
<i>For Schedule 80 Nipples, Add</i>	8.50	
<i>For Work In Restricted Working Space, Add</i>	6.04	
23 21 13 23-0259 EA 1" x 8" Long, Schedule 40 Black Steel Nipple.....	44.40	14.52
<i>For Schedule 80 Nipples, Add</i>	11.36	
<i>For Work In Restricted Working Space, Add</i>	6.51	
23 21 13 23-0260 EA 1-1/4" x 8" Long, Schedule 40 Black Steel Nipple	52.03	15.65
<i>For Schedule 80 Nipples, Add</i>	14.27	
<i>For Work In Restricted Working Space, Add</i>	7.05	
23 21 13 23-0261 EA 1-1/2" x 8" Long, Schedule 40 Black Steel Nipple	56.21	15.65
<i>For Schedule 80 Nipples, Add</i>	16.36	
<i>For Work In Restricted Working Space, Add</i>	7.05	
23 21 13 23-0262 EA 2" x 8" Long, Schedule 40 Black Steel Nipple.....	76.86	20.16
<i>For Schedule 80 Nipples, Add</i>	23.27	
<i>For Work In Restricted Working Space, Add</i>	9.10	
23 21 13 23-0263 EA 2-1/2" x 8" Long, Schedule 40 Black Steel Nipple	119.10	25.10
<i>For Schedule 80 Nipples, Add</i>	40.75	
<i>For Work In Restricted Working Space, Add</i>	11.28	
23 21 13 23-0264 EA 3" x 8" Long, Schedule 40 Black Steel Nipple.....	160.09	30.31
<i>For Schedule 80 Nipples, Add</i>	57.31	
<i>For Work In Restricted Working Space, Add</i>	13.64	
23 21 13 23-0265 EA 4" x 8" Long, Schedule 40 Black Steel Nipple.....	185.20	33.35
<i>For Schedule 80 Nipples, Add</i>	67.62	
<i>For Work In Restricted Working Space, Add</i>	14.99	
23 21 13 23-0266 EA 3/8" x 10" Long, Schedule 40 Black Steel Nipple.....	46.78	13.39
<i>For Schedule 80 Nipples, Add</i>	13.32	
<i>For Work In Restricted Working Space, Add</i>	6.04	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-0267	EA	1/2" x 10" Long, Schedule 40 Black Steel Nipple.....	36.83	13.39
			<i>For Schedule 80 Nipples, Add</i>	8.35	
			<i>For Work In Restricted Working Space, Add</i>	6.04	
23 21	13 23-0268	EA	3/4" x 10" Long, Schedule 40 Black Steel Nipple.....	39.89	13.39
			<i>For Schedule 80 Nipples, Add</i>	9.88	
			<i>For Work In Restricted Working Space, Add</i>	6.04	
23 21	13 23-0269	EA	1" x 10" Long, Schedule 40 Black Steel Nipple.....	48.23	14.52
			<i>For Schedule 80 Nipples, Add</i>	13.27	
			<i>For Work In Restricted Working Space, Add</i>	6.51	
23 21	13 23-0270	EA	1-1/4" x 10" Long, Schedule 40 Black Steel Nipple	57.69	15.65
			<i>For Schedule 80 Nipples, Add</i>	17.10	
			<i>For Work In Restricted Working Space, Add</i>	7.05	
23 21	13 23-0271	EA	1-1/2" x 10" Long, Schedule 40 Black Steel Nipple	61.77	15.65
			<i>For Schedule 80 Nipples, Add</i>	19.14	
			<i>For Work In Restricted Working Space, Add</i>	7.05	
23 21	13 23-0272	EA	2" x 10" Long, Schedule 40 Black Steel Nipple.....	85.02	20.16
			<i>For Schedule 80 Nipples, Add</i>	27.35	
			<i>For Work In Restricted Working Space, Add</i>	9.10	
23 21	13 23-0273	EA	2-1/2" x 10" Long, Schedule 40 Black Steel Nipple	129.15	25.10
			<i>For Schedule 80 Nipples, Add</i>	45.78	
			<i>For Work In Restricted Working Space, Add</i>	11.28	
23 21	13 23-0274	EA	3" x 10" Long, Schedule 40 Black Steel Nipple.....	174.23	30.31
			<i>For Schedule 80 Nipples, Add</i>	64.38	
			<i>For Work In Restricted Working Space, Add</i>	13.64	
23 21	13 23-0275	EA	4" x 10" Long, Schedule 40 Black Steel Nipple.....	203.98	33.35
			<i>For Schedule 80 Nipples, Add</i>	77.01	
			<i>For Work In Restricted Working Space, Add</i>	14.99	
23 21	13 23-0276	EA	3/8" x 12" Long, Schedule 40 Black Steel Nipple.....	50.45	13.39
			<i>For Schedule 80 Nipples, Add</i>	15.16	
			<i>For Work In Restricted Working Space, Add</i>	6.04	
23 21	13 23-0277	EA	1/2" x 12" Long, Schedule 40 Black Steel Nipple.....	39.94	13.39
			<i>For Schedule 80 Nipples, Add</i>	9.90	
			<i>For Work In Restricted Working Space, Add</i>	6.04	
23 21	13 23-0278	EA	3/4" x 12" Long, Schedule 40 Black Steel Nipple.....	42.08	13.39
			<i>For Schedule 80 Nipples, Add</i>	10.97	
			<i>For Work In Restricted Working Space, Add</i>	6.04	
23 21	13 23-0279	EA	1" x 12" Long, Schedule 40 Black Steel Nipple.....	52.16	14.52
			<i>For Schedule 80 Nipples, Add</i>	15.24	
			<i>For Work In Restricted Working Space, Add</i>	6.51	
23 21	13 23-0280	EA	1-1/4" x 12" Long, Schedule 40 Black Steel Nipple	62.28	15.65
			<i>For Schedule 80 Nipples, Add</i>	19.39	
			<i>For Work In Restricted Working Space, Add</i>	7.05	
23 21	13 23-0281	EA	1-1/2" x 12" Long, Schedule 40 Black Steel Nipple	67.59	15.65
			<i>For Schedule 80 Nipples, Add</i>	22.05	
			<i>For Work In Restricted Working Space, Add</i>	7.05	
23 21	13 23-0282	EA	2" x 12" Long, Schedule 40 Black Steel Nipple.....	93.29	20.16
			<i>For Schedule 80 Nipples, Add</i>	31.49	
			<i>For Work In Restricted Working Space, Add</i>	9.10	
23 21	13 23-0283	EA	2-1/2" x 12" Long, Schedule 40 Black Steel Nipple	139.46	25.10
			<i>For Schedule 80 Nipples, Add</i>	50.93	
			<i>For Work In Restricted Working Space, Add</i>	11.28	
23 21	13 23-0284	EA	3" x 12" Long, Schedule 40 Black Steel Nipple.....	188.37	30.31
			<i>For Schedule 80 Nipples, Add</i>	71.45	
			<i>For Work In Restricted Working Space, Add</i>	13.64	
23 21	13 23-0285	EA	4" x 12" Long, Schedule 40 Black Steel Nipple.....	230.52	33.35
			<i>For Schedule 80 Nipples, Add</i>	90.28	
			<i>For Work In Restricted Working Space, Add</i>	14.99	
23 21	13 23-0286		Black Malleable Iron Bushing <small>(23 21 13 23-0014)</small>		
23 21	13 23-0287	EA	1/2" x 3/8", 150 LB, Black Malleable Iron Bushing.....	44.61	22.98
			<i>For Work In Restricted Working Space, Add</i>	10.34	
23 21	13 23-0288	EA	3/4" x 3/8", 150 LB, Black Malleable Iron Bushing.....	51.67	24.67
			<i>For Work In Restricted Working Space, Add</i>	11.11	
23 21	13 23-0289	EA	3/4" x 1/2", 150 LB, Black Malleable Iron Bushing.....	54.48	26.51
			<i>For Work In Restricted Working Space, Add</i>	11.95	
23 21	13 23-0290	EA	1" x 3/8", 150 LB, Black Malleable Iron Bushing.....	59.67	26.37
			<i>For Work In Restricted Working Space, Add</i>	11.84	
23 21	13 23-0291	EA	1" x 1/2", 150 LB, Black Malleable Iron Bushing.....	57.38	28.20
			<i>For Work In Restricted Working Space, Add</i>	12.69	
23 21	13 23-0292	EA	1" x 3/4", 150 LB, Black Malleable Iron Bushing.....	59.63	29.74
			<i>For Work In Restricted Working Space, Add</i>	13.36	
23 21	13 23-0293	EA	1-1/4" x 3/8", 150 LB, Black Malleable Iron Bushing.....	65.22	28.34
			<i>For Work In Restricted Working Space, Add</i>	12.77	
23 21	13 23-0294	EA	1-1/4" x 1/2", 150 LB, Black Malleable Iron Bushing.....	67.02	30.31
			<i>For Work In Restricted Working Space, Add</i>	13.62	
23 21	13 23-0295	EA	1-1/4" x 3/4", 150 LB, Black Malleable Iron Bushing.....	67.10	31.72
			<i>For Work In Restricted Working Space, Add</i>	14.29	
23 21	13 23-0296	EA	1-1/4" x 1", 150 LB, Black Malleable Iron Bushing.....	69.56	33.42
			<i>For Work In Restricted Working Space, Add</i>	15.03	
23 21	13 23-0297	EA	1-1/2" x 3/8", 150 LB, Black Malleable Iron Bushing.....	75.85	30.73
			<i>For Work In Restricted Working Space, Add</i>	13.79	
23 21	13 23-0298	EA	1-1/2" x 1/2", 150 LB, Black Malleable Iron Bushing.....	73.42	32.57
			<i>For Work In Restricted Working Space, Add</i>	14.64	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0299 EA 1-1/2" x 3/4", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	75.66 15.31	33.98
23 21 13 23-0300 EA 1-1/2" x 1", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	75.12 16.05	35.67
23 21 13 23-0301 EA 1-1/2" x 1-1/4", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	81.29 16.98	37.78
23 21 13 23-0302 EA 2" x 3/8", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	96.27 16.22	36.09
23 21 13 23-0303 EA 2" x 1/2", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	94.09 17.07	37.92
23 21 13 23-0304 EA 2" x 3/4", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	90.60 17.74	39.48
23 21 13 23-0305 EA 2" x 1", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	91.07 18.48	41.03
23 21 13 23-0306 EA 2" x 1-1/4", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	94.18 19.41	43.14
23 21 13 23-0307 EA 2" x 1-1/2", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	100.90 20.43	45.39
23 21 13 23-0308 EA 2-1/2" x 3/4", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	131.00 23.23	51.60
23 21 13 23-0309 EA 2-1/2" x 1", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	133.45 23.97	53.30
23 21 13 23-0310 EA 2-1/2" x 1-1/4", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	136.56 24.90	55.27
23 21 13 23-0311 EA 2-1/2" x 1-1/2", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	136.29 25.92	57.66
23 21 13 23-0312 EA 2-1/2" x 2", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	144.00 28.35	63.02
23 21 13 23-0313 EA 3" x 3/4", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	169.33 28.58	63.44
23 21 13 23-0314 EA 3" x 1", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	171.78 29.31	65.13
23 21 13 23-0315 EA 3" x 1-1/4", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	174.88 30.24	67.25
23 21 13 23-0316 EA 3" x 1-1/2", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	176.84 31.26	69.51
23 21 13 23-0317 EA 3" x 2", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	180.18 33.69	74.87
23 21 13 23-0318 EA 3" x 2-1/2", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	199.49 39.18	87.12
23 21 13 23-0319 EA 4" x 3/4", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	233.61 27.46	60.96
23 21 13 23-0320 EA 4" x 1", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	235.77 28.10	62.46
23 21 13 23-0321 EA 4" x 1-1/4", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	238.52 28.93	64.33
23 21 13 23-0322 EA 4" x 1-1/2", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	241.53 29.83	66.33
23 21 13 23-0323 EA 4" x 2", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	241.09 31.99	71.08
23 21 13 23-0324 EA 4" x 2-1/2", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	257.29 36.85	81.94
23 21 13 23-0325 EA 4" x 3", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	273.07 41.58	92.43
23 21 13 23-0326 Black Malleable Iron Square Head Plugs (23 21 13 23-0014)		
23 21 13 23-0327 EA 3/8", 150 LB, Black Malleable Iron Square Head Plug..... <i>For Work In Restricted Working Space, Add</i>	20.28 3.76	8.32
23 21 13 23-0328 EA 1/2", 150 LB, Black Malleable Iron Square Head Plug..... <i>For Work In Restricted Working Space, Add</i>	23.31 4.51	10.01
23 21 13 23-0329 EA 3/4", 150 LB, Black Malleable Iron Square Head Plug..... <i>For Work In Restricted Working Space, Add</i>	25.10 5.05	11.28
23 21 13 23-0330 EA 1", 150 LB, Black Malleable Iron Square Head Plug..... <i>For Work In Restricted Working Space, Add</i>	29.20 5.64	12.55
23 21 13 23-0331 EA 1-1/4", 150 LB, Black Malleable Iron Square Head Plug..... <i>For Work In Restricted Working Space, Add</i>	34.39 6.38	14.24
23 21 13 23-0332 EA 1-1/2", 150 LB, Black Malleable Iron Square Head Plug..... <i>For Work In Restricted Working Space, Add</i>	42.27 7.20	15.93
23 21 13 23-0333 EA 2", 150 LB, Black Malleable Iron Square Head Plug..... <i>For Work In Restricted Working Space, Add</i>	56.47 9.14	20.30
23 21 13 23-0334 EA 2-1/2", 150 LB, Black Malleable Iron Square Head Plug..... <i>For Work In Restricted Working Space, Add</i>	92.41 13.53	30.03
23 21 13 23-0335 EA 3", 150 LB, Black Malleable Iron Square Head Plug..... <i>For Work In Restricted Working Space, Add</i>	124.31 17.81	39.62
23 21 13 23-0336 EA 4", 150 LB, Black Malleable Iron Square Head Plug..... <i>For Work In Restricted Working Space, Add</i>	194.50 17.49	38.85
23 21 13 23-0337 EA 5", 150 LB, Black Malleable Iron Square Head Plug..... <i>For Work In Restricted Working Space, Add</i>	353.40 18.25	40.59
23 21 13 23-0338 EA 6", 150 LB, Black Malleable Iron Square Head Plug..... <i>For Work In Restricted Working Space, Add</i>	425.99 19.08	42.35

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0339 125 LB Black Cast Iron Screwed Flanges <small>(23 21 13 23-0014)</small>		
Note: Excludes bolt and gasket sets See CSI section 23 21 13 23-0713 for Class 150 steel bolt and gasket set.		
23 21 13 23-0340 EA 3/4", 125 LB, Black Cast Iron Flange	232.89	56.39
For Work In Restricted Working Space, Add	25.38	
23 21 13 23-0341 EA 1", 125 LB, Black Cast Iron Flange	189.90	63.72
For Work In Restricted Working Space, Add	28.67	
23 21 13 23-0342 EA 1-1/4", 125 LB, Black Cast Iron Flange	211.77	65.98
For Work In Restricted Working Space, Add	29.68	
23 21 13 23-0343 EA 1-1/2", 125 LB, Black Cast Iron Flange	211.90	71.76
For Work In Restricted Working Space, Add	32.29	
23 21 13 23-0344 EA 2", 125 LB, Black Cast Iron Flange	216.39	74.87
For Work In Restricted Working Space, Add	33.70	
23 21 13 23-0345 EA 2-1/2", 125 LB, Black Cast Iron Flange	251.66	86.70
For Work In Restricted Working Space, Add	38.97	
23 21 13 23-0346 EA 3", 125 LB, Black Cast Iron Flange	321.72	109.97
For Work In Restricted Working Space, Add	49.47	
23 21 13 23-0347 EA 4", 125 LB, Black Cast Iron Flange	411.23	133.29
For Work In Restricted Working Space, Add	59.96	
23 21 13 23-0348 EA 5", 125 LB, Black Cast Iron Flange	536.50	158.77
For Work In Restricted Working Space, Add	71.38	
23 21 13 23-0349 EA 6", 125 LB, Black Cast Iron Flange	611.06	182.25
For Work In Restricted Working Space, Add	81.98	
23 21 13 23-0350 150 LB, Black Malleable Iron Flanges <small>(23 21 13 23-0014)</small>		
Note: Excludes bolt and gasket sets See CSI section 23 21 13 23-0713 for Class 150 steel bolt and gasket set.		
23 21 13 23-0351 EA 1/2", 150 LB, Black Malleable Iron Flange	110.05	51.46
For Work In Restricted Working Space, Add	23.18	
23 21 13 23-0352 EA 3/4", 150 LB, Black Malleable Iron Flange	119.94	56.39
For Work In Restricted Working Space, Add	25.38	
23 21 13 23-0353 EA 1", 150 LB, Black Malleable Iron Flange	141.50	63.72
For Work In Restricted Working Space, Add	28.67	
23 21 13 23-0354 EA 1-1/4", 150 LB, Black Malleable Iron Flange	148.02	65.98
For Work In Restricted Working Space, Add	29.68	
23 21 13 23-0355 EA 1-1/2", 150 LB, Black Malleable Iron Flange	161.18	71.76
For Work In Restricted Working Space, Add	32.29	
23 21 13 23-0356 EA 2", 150 LB, Black Malleable Iron Flange	182.18	74.87
For Work In Restricted Working Space, Add	33.69	
23 21 13 23-0357 EA 2-1/2", 150 LB, Black Malleable Iron Flange	239.47	86.70
For Work In Restricted Working Space, Add	38.97	
23 21 13 23-0358 EA 3", 150 LB, Black Malleable Iron Flange	303.32	109.97
For Work In Restricted Working Space, Add	49.46	
23 21 13 23-0359 EA 4", 150 LB, Black Malleable Iron Flange	435.02	133.29
For Work In Restricted Working Space, Add	59.95	
23 21 13 23-0360 Cut And Thread Existing In-Place Black Steel Pipe <small>(23 21 13 23-0014)</small>		
Note: For use when connecting pipe to an existing in-place system.		
23 21 13 23-0361 EA 1/2", Cut And Thread Existing In Place Black Steel Pipe	45.94	
For Work In Restricted Working Space, Add	13.78	
23 21 13 23-0362 EA 3/4", Cut And Thread Existing In Place Black Steel Pipe	50.53	
For Work In Restricted Working Space, Add	15.16	
23 21 13 23-0363 EA 1", Cut And Thread Existing In Place Black Steel Pipe	55.13	
For Work In Restricted Working Space, Add	16.54	
23 21 13 23-0364 EA 1-1/4", Cut And Thread Existing In Place Black Steel Pipe	59.72	
For Work In Restricted Working Space, Add	17.92	
23 21 13 23-0365 EA 1-1/2", Cut And Thread Existing In Place Black Steel Pipe	62.79	
For Work In Restricted Working Space, Add	18.84	
23 21 13 23-0366 EA 2", Cut And Thread Existing In Place Black Steel Pipe	65.84	
For Work In Restricted Working Space, Add	19.75	
23 21 13 23-0367 EA 2-1/2", Cut And Thread Existing In Place Black Steel Pipe	68.91	
For Work In Restricted Working Space, Add	20.67	
23 21 13 23-0368 EA 3", Cut And Thread Existing In Place Black Steel Pipe	71.97	
For Work In Restricted Working Space, Add	21.59	
23 21 13 23-0369 EA 4", Cut And Thread Existing In Place Black Steel Pipe	75.03	
For Work In Restricted Working Space, Add	22.51	
23 21 13 23-0370 EA 6", Cut And Thread Existing In Place Black Steel Pipe	81.16	
For Work In Restricted Working Space, Add	24.35	
23 21 13 23-0371 EA 8", Cut And Thread Existing In Place Black Steel Pipe	87.28	
For Work In Restricted Working Space, Add	26.18	
23 21 13 23-0372 EA 10", Cut And Thread Existing In Place Black Steel Pipe	94.94	
For Work In Restricted Working Space, Add	28.48	
23 21 13 23-0373 EA 12", Cut And Thread Existing In Place Black Steel Pipe	101.06	
For Work In Restricted Working Space, Add	30.32	
23 21 13 23-0374 Welded Black Steel Pipe <small>(23 21 13 23)</small>		
23 21 13 23-0375 Welded Plain End Black Steel Pipe Assemblies <small>(23 21 13 23-0374)</small>		
Note: ASTM A-53 pipe and A-234 WPB fittings. Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0376 LF 3/4" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly..... Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.	35.81	10.70
<i>For Work In Restricted Working Space, Add</i>	7.82	
23 21 13 23-0377 LF 1" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly..... Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.	40.64	11.42
<i>For Work In Restricted Working Space, Add</i>	8.76	
23 21 13 23-0378 LF 1-1/4" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.	49.85	12.13
<i>For Work In Restricted Working Space, Add</i>	10.05	
23 21 13 23-0379 LF 1-1/2" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.	54.88	12.13
<i>For Work In Restricted Working Space, Add</i>	10.52	
23 21 13 23-0380 LF 2" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly..... Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.	63.28	12.13
<i>For Work In Restricted Working Space, Add</i>	12.17	
23 21 13 23-0381 LF 2-1/2" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.	73.31	12.13
<i>For Work In Restricted Working Space, Add</i>	14.11	
23 21 13 23-0382 LF 3" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly..... Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.	89.62	11.85
<i>For Work In Restricted Working Space, Add</i>	14.88	
23 21 13 23-0383 LF 4" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly..... Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.	118.13	13.61
<i>For Work In Restricted Working Space, Add</i>	16.88	
23 21 13 23-0384 LF 6" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly..... Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.	168.07	20.28
<i>For Work In Restricted Working Space, Add</i>	19.43	
23 21 13 23-0385 LF 8" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly..... Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.	253.69	25.18
<i>For Work In Restricted Working Space, Add</i>	28.83	
23 21 13 23-0386 LF 10" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly..... Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.	342.02	31.49
<i>For Work In Restricted Working Space, Add</i>	34.39	
23 21 13 23-0387 LF 12" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly..... Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.	435.10	38.04
<i>For Work In Restricted Working Space, Add</i>	39.73	
23 21 13 23-0388 LF 14" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly..... Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.	450.64	49.62
<i>For Work In Restricted Working Space, Add</i>	44.33	
23 21 13 23-0389 LF 16" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly..... Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.	516.34	62.97
<i>For Work In Restricted Working Space, Add</i>	49.54	
23 21 13 23-0390 LF 18" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly..... Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.	666.63	77.96
<i>For Work In Restricted Working Space, Add</i>	54.35	
23 21 13 23-0391 LF 20" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly..... Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.	821.35	96.34
<i>For Work In Restricted Working Space, Add</i>	62.22	
23 21 13 23-0392 LF 24" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly..... Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.	1,021.10	109.19
<i>For Work In Restricted Working Space, Add</i>	68.41	
23 21 13 23-0393 Welded Black Steel Pipe And Fittings <small>(23 21 13 23-0374)</small> Note: ASTM A-53 pipe and A-234 WPB fittings. Excludes hangers or fittings.		
23 21 13 23-0394 Welded Plain End (A-53) Black Steel Piping <small>(23 21 13 23-0393)</small>		
23 21 13 23-0395 LF 3/4" Schedule 40, Welded Plain End Black Steel Pipe <i>For Schedule 80 Pipe, Add</i> <i>For Work In Restricted Working Space, Add</i>	17.34 2.90 3.43	5.71
23 21 13 23-0396 LF 1" Schedule 40, Welded Plain End Black Steel Pipe <i>For Schedule 80 Pipe, Add</i> <i>For Work In Restricted Working Space, Add</i>	22.13 3.71 4.28	7.13
23 21 13 23-0397 LF 1-1/4" Schedule 40, Welded Plain End Black Steel Pipe <i>For Schedule 80 Pipe, Add</i> <i>For Work In Restricted Working Space, Add</i>	28.66 4.88 5.14	8.56
23 21 13 23-0398 LF 1-1/2" Schedule 40, Welded Plain End Black Steel Pipe <i>For Schedule 80 Pipe, Add</i> <i>For Work In Restricted Working Space, Add</i>	35.30 6.06 5.99	9.98

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 20 HVAC Piping and Pumps

23 21 Hydronic Piping and Pumps



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0399 LF 2" Schedule 40, Welded Plain End Black Steel Pipe	42.01	11.85
For Schedule 80 Pipe, Add	7.22	
For Work In Restricted Working Space, Add	7.10	
23 21 13 23-0400 LF 2-1/2" Schedule 40, Welded Plain End Black Steel Pipe	48.21	13.41
For Schedule 80 Pipe, Add	12.18	
For Work In Restricted Working Space, Add	8.05	
23 21 13 23-0401 LF 3" Schedule 40, Welded Plain End Black Steel Pipe	62.77	14.41
For Schedule 80 Pipe, Add	16.93	
For Work In Restricted Working Space, Add	8.65	
23 21 13 23-0402 LF 4" Schedule 40, Welded Plain End Black Steel Pipe	90.08	17.83
For Schedule 80 Pipe, Add	25.29	
For Work In Restricted Working Space, Add	10.70	
23 21 13 23-0403 LF 6" Schedule 40, Welded Plain End Black Steel Pipe	135.43	28.89
For Schedule 80 Pipe, Add	39.66	
For Work In Restricted Working Space, Add	13.27	
23 21 13 23-0404 LF 8" Schedule 40, Welded Plain End Black Steel Pipe	191.66	27.08
For Schedule 80 Pipe, Add	57.60	
For Schedule 30 Pipe, Deduct	-32.92	
For Work In Restricted Working Space, Add	16.25	
23 21 13 23-0405 LF 10" Schedule 40, Welded Plain End Black Steel Pipe	259.86	32.61
For Schedule 80 Pipe, Add	79.53	
For Schedule 30 Pipe, Deduct	-45.45	
For Work In Restricted Working Space, Add	19.57	
23 21 13 23-0406 LF 12" Schedule 40, Welded Plain End Black Steel Pipe	336.21	39.42
For Schedule 80 Pipe, Add	103.88	
For Schedule 30 Pipe, Deduct	-59.36	
For Work In Restricted Working Space, Add	23.65	
23 21 13 23-0407 LF 14" Schedule 40, Welded Plain End Black Steel Pipe	317.81	41.56
For Schedule 80 Pipe, Add	96.69	
For Schedule 30 Pipe, Deduct	-55.25	
For Schedule 20 Pipe, Deduct	-98.77	
For Work In Restricted Working Space, Add	24.94	
23 21 13 23-0408 LF 16" Schedule 40, Welded Plain End Black Steel Pipe	351.75	44.71
For Schedule 80 Pipe, Add	107.46	
For Schedule 30 Pipe, Deduct	-61.41	
For Schedule 20 Pipe, Deduct	-109.70	
For Work In Restricted Working Space, Add	26.83	
23 21 13 23-0409 LF 18" Schedule 40, Welded Plain End Black Steel Pipe	460.29	48.36
For Schedule 80 Pipe, Add	144.18	
For Schedule 30 Pipe, Deduct	-82.39	
For Schedule 20 Pipe, Deduct	-146.59	
For Work In Restricted Working Space, Add	29.02	
23 21 13 23-0410 LF 20" Schedule 40, Welded Plain End Black Steel Pipe	542.76	57.93
For Schedule 80 Pipe, Add	169.69	
For Work In Restricted Working Space, Add	34.76	
23 21 13 23-0411 LF 24" Schedule 40, Welded Plain End Black Steel Pipe	684.72	66.63
For Schedule 80 Pipe, Add	216.34	
For Work In Restricted Working Space, Add	39.97	
23 21 13 23-0412 Welded Plain End (A-106) Seamless Carbon Steel Piping (23 21 13 23-0393)		
23 21 13 23-0413 LF 1/4" Schedule 40, Welded Plain End (A-106) Seamless, Carbon Steel Pipe	12.94	4.00
For Work In Restricted Working Space, Add	2.40	
For Schedule 80 (A-106) Carbon Steel Pipe, Add	3.03	
23 21 13 23-0414 LF 1/2" Schedule 40, Welded Plain End (A-106) Seamless, Carbon Steel Pipe	13.24	4.43
For Work In Restricted Working Space, Add	2.61	
For Schedule 80 (A-106) Carbon Steel Pipe, Add	2.98	
23 21 13 23-0415 LF 3/4" Schedule 40, Welded Plain End (A-106) Seamless, Carbon Steel Pipe	16.83	5.71
For Work In Restricted Working Space, Add	3.43	
For Schedule 80 (A-106) Carbon Steel Pipe, Add	3.71	
23 21 13 23-0416 LF 1" Schedule 40, Welded Plain End (A-106) Seamless, Carbon Steel Pipe	20.70	7.13
For Work In Restricted Working Space, Add	4.28	
For Schedule 80 (A-106) Carbon Steel Pipe, Add	4.52	
23 21 13 23-0417 LF 1-1/4" Schedule 40, Welded Plain End (A-106) Seamless, Carbon Steel Pipe	25.93	8.56
For Work In Restricted Working Space, Add	5.14	
For Schedule 80 (A-106) Carbon Steel Pipe, Add	5.83	
23 21 13 23-0418 LF 1-1/2" Schedule 40, Welded Plain End (A-106) Seamless, Carbon Steel Pipe	30.28	9.98
For Work In Restricted Working Space, Add	5.99	
For Schedule 80 (A-106) Carbon Steel Pipe, Add	6.81	
23 21 13 23-0419 LF 2" Schedule 40, Welded Plain End (A-106) Seamless, Carbon Steel Pipe	35.96	11.85
For Work In Restricted Working Space, Add	7.10	
For Schedule 80 (A-106) Carbon Steel Pipe, Add	8.10	
23 21 13 23-0420 LF 2-1/2" Schedule 40, Welded Plain End (A-106) Seamless, Carbon Steel Pipe	46.47	13.41
For Work In Restricted Working Space, Add	8.05	
For Schedule 80 (A-106) Carbon Steel Pipe, Add	15.02	
23 21 13 23-0421 LF 3" Schedule 40, Welded Plain End (A-106) Seamless, Carbon Steel Pipe	52.86	14.41
For Work In Restricted Working Space, Add	8.65	
For Schedule 80 (A-106) Carbon Steel Pipe, Add	17.79	
23 21 13 23-0422 LF 4" Schedule 40, Welded Plain End (A-106) Seamless, Carbon Steel Pipe	65.67	17.83
For Work In Restricted Working Space, Add	10.70	
For Schedule 80 (A-106) Carbon Steel Pipe, Add	22.15	
23 21 13 23-0423 LF 6" Schedule 40, Welded Plain End (A-106) Seamless, Carbon Steel Pipe	100.11	28.96
For Work In Restricted Working Space, Add	13.27	
For Schedule 80 (A-106) Carbon Steel Pipe, Add	37.93	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0424 LF 8" Schedule 40, Welded Plain End (A-106) Seamless, Carbon Steel Pipe..... <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 (A-106) Carbon Steel Pipe, Add</i>	138.26 16.25 55.22	27.08
23 21 13 23-0425 LF 10" Schedule 40, Welded Plain End (A-106) Seamless, Carbon Steel Pipe..... <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 (A-106) Carbon Steel Pipe, Add</i>	185.18 19.57 76.95	32.61
23 21 13 23-0426 LF 12" Schedule 40, Welded Plain End (A-106) Seamless, Carbon Steel Pipe..... <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 (A-106) Carbon Steel Pipe, Add</i>	225.68 23.65 94.06	39.42
23 21 13 23-0427 LF 14" Schedule 40, Welded Plain End (A-106) Seamless, Carbon Steel Pipe..... <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 (A-106) Carbon Steel Pipe, Add</i>	263.72 24.94 113.60	41.56
23 21 13 23-0428 LF 16" Schedule 40, Welded Plain End (A-106) Seamless, Carbon Steel Pipe..... <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 (A-106) Carbon Steel Pipe, Add</i>	303.75 26.83 133.44	44.71
23 21 13 23-0429 LF 18" Schedule 40, Welded Plain End (A-106) Seamless, Carbon Steel Pipe..... <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 (A-106) Carbon Steel Pipe, Add</i>	367.12 29.02 165.93	48.36
23 21 13 23-0430 LF 20" Schedule 40, Welded Plain End (A-106) Seamless, Carbon Steel Pipe..... <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 (A-106) Carbon Steel Pipe, Add</i>	442.33 34.76 200.20	57.93
23 21 13 23-0431 LF 24" Schedule 40, Welded Plain End (A-106) Seamless, Carbon Steel Pipe..... <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 (A-106) Carbon Steel Pipe, Add</i>	556.19 39.97 256.84	66.63
23 21 13 23-0432 Welded Plain End Black Steel 90 Degree Elbows <small>(23 21 13 23-0393)</small>		
23 21 13 23-0433 EA 3/4" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	140.57 29.61 35.89	79.85
23 21 13 23-0434 EA 1" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	146.85 30.83 37.78	84.00
23 21 13 23-0435 EA 1-1/4" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	164.48 34.27 43.07	95.71
23 21 13 23-0436 EA 1-1/2" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	175.81 36.48 46.46	103.27
23 21 13 23-0437 EA 2" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	222.40 45.57 60.44	134.38
23 21 13 23-0438 EA 2-1/2" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	279.74 57.48 75.55	168.01
23 21 13 23-0439 EA 3" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	322.46 66.38 86.73	192.91
23 21 13 23-0440 EA 4" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	554.88 113.99 149.92	333.31
23 21 13 23-0441 EA 6" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	960.37 201.51 247.43	550.05
23 21 13 23-0442 EA 8" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,274.95 275.04 306.98	682.47
23 21 13 23-0443 EA 10" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,631.55 366.67 350.83	780.07
23 21 13 23-0444 EA 12" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,200.19 499.40 459.03	1,020.61
23 21 13 23-0445 EA 14" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,715.63 624.78 542.60	1,206.37
23 21 13 23-0446 EA 16" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	3,353.43 784.27 633.60	1,408.75
23 21 13 23-0447 EA 18" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	3,952.81 938.57 706.51	1,570.84
23 21 13 23-0448 EA 20" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,989.07 1,219.45 792.20	1,761.26
23 21 13 23-0449 EA 24" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	5,797.81 1,452.83 818.60	1,820.07
23 21 13 23-0450 Welded Plain End Black Steel Reducing 90 Degree Elbows <small>(23 21 13 23-0393)</small>		
23 21 13 23-0451 EA 4" x 3" 90 Standard Weight, Welded Plain End Black Steel Reducing 90 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	727.54 165.69 150.20	333.88

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 20 HVAC Piping and Pumps

23 21 Hydronic Piping and Pumps



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-0452	EA	6" x 4" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,259.15 292.13 244.60	543.77
23 21	13 23-0453	EA	6" x 3" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,335.24 314.96 244.60	543.77
23 21	13 23-0454	EA	8" x 6" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,959.45 480.39 306.98	682.47
23 21	13 23-0455	EA	8" x 4" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,140.88 534.82 306.98	682.47
23 21	13 23-0456	EA	10" x 8" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,665.86 676.97 350.83	780.07
23 21	13 23-0457	EA	10" x 6" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,665.86 676.97 350.83	780.07
23 21	13 23-0458	EA	12" x 10" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,337.59 1,137.56 467.78	1,040.01
23 21	13 23-0459	EA	12" x 8" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,337.59 1,137.56 467.78	1,040.01
23 21	13 23-0460	EA	12" x 6" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,831.10 1,285.61 467.78	1,040.01
23 21 13 23-0461 Welded Plain End Black Steel 45 Degree Elbows (23 21 13 23-0393)					
23 21	13 23-0462	EA	3/4" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	137.89 28.63 36.38	80.90
23 21	13 23-0463	EA	1" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	142.18 29.47 37.67	83.76
23 21	13 23-0464	EA	1-1/4" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	160.72 33.08 43.23	96.16
23 21	13 23-0465	EA	1-1/2" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	172.14 35.31 46.66	103.73
23 21	13 23-0466	EA	2" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	217.80 44.22 60.36	134.13
23 21	13 23-0467	EA	2-1/2" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	271.90 55.05 75.77	168.51
23 21	13 23-0468	EA	3" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	313.42 63.67 86.72	192.77
23 21	13 23-0469	EA	4" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	539.86 109.50 149.88	333.16
23 21	13 23-0470	EA	6" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	922.82 190.35 247.14	549.48
23 21	13 23-0471	EA	8" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,207.03 254.67 306.98	682.47
23 21	13 23-0472	EA	10" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,506.85 329.26 350.83	780.07
23 21	13 23-0473	EA	12" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,016.52 444.59 458.18	1,018.73
23 21	13 23-0474	EA	14" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,473.29 551.82 543.32	1,208.01
23 21	13 23-0475	EA	16" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	3,016.25 683.34 632.94	1,407.24
23 21	13 23-0476	EA	18" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	3,518.94 808.69 705.70	1,568.95
23 21	13 23-0477	EA	20" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,355.35 1,029.34 792.20	1,761.26
23 21	13 23-0478	EA	24" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,969.60 1,204.37 818.60	1,820.07
23 21	13 23-0479		Welded Plain End Black Steel Tee (23 21 13 23-0393)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0480 EA 3/4" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	278.47 59.57 68.49	152.24
23 21 13 23-0481 EA 1" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	278.39 59.55 68.47	152.24
23 21 13 23-0482 EA 1-1/4" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	314.35 67.65 76.16	169.37
23 21 13 23-0483 EA 1-1/2" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	345.84 73.79 85.61	190.34
23 21 13 23-0484 EA 2" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	434.46 90.34 114.29	254.11
23 21 13 23-0485 EA 2-1/2" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	494.51 103.41 128.42	285.51
23 21 13 23-0486 EA 3" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	592.92 123.34 155.81	346.72
23 21 13 23-0487 EA 4" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	853.31 177.14 225.29	500.96
23 21 13 23-0488 EA 6" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	1,426.99 297.82 372.22	827.56
23 21 13 23-0489 EA 8" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	1,904.14 407.52 467.78	1,040.01
23 21 13 23-0490 EA 10" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	2,397.39 528.21 545.74	1,213.29
23 21 13 23-0491 EA 12" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	3,218.38 719.93 701.66	1,560.01
23 21 13 23-0492 EA 14" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	4,142.72 956.30 818.60	1,820.07
23 21 13 23-0493 EA 16" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	4,983.91 1,151.36 982.33	2,184.04
23 21 13 23-0494 EA 18" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	6,430.65 1,547.18 1,091.48	2,426.72
23 21 13 23-0495 EA 20" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	8,404.13 2,091.47 1,227.91	2,730.11
23 21 13 23-0496 EA 24" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	9,666.26 2,437.05 1,322.36	2,940.12
23 21 13 23-0497 Welded Plain End Black Steel Reducing Tees (23 21 13 23-0393)		
23 21 13 23-0498 EA 3/4" Standard Weight, Welded Plain End Black Steel Reducing Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	271.33 58.18 66.35	147.54
23 21 13 23-0499 EA 1" Standard Weight, Welded Plain End Black Steel Reducing Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	278.39 59.55 68.47	152.24
23 21 13 23-0500 EA 1-1/4" Standard Weight, Welded Plain End Black Steel Reducing Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	311.15 66.69 76.16	169.37
23 21 13 23-0501 EA 1-1/2" Standard Weight, Welded Plain End Black Steel Reducing Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	342.64 72.83 85.61	190.34
23 21 13 23-0502 EA 2" Standard Weight, Welded Plain End Black Steel Reducing Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	441.71 92.50 114.33	254.11
23 21 13 23-0503 EA 2-1/2" Standard Weight, Welded Plain End Black Steel Reducing Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	494.69 103.44 128.47	285.65
23 21 13 23-0504 EA 3" Standard Weight, Welded Plain End Black Steel Reducing Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	593.26 123.45 155.81	346.72
23 21 13 23-0505 EA 4" Standard Weight, Welded Plain End Black Steel Reducing Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	853.78 177.28 225.29	500.96
23 21 13 23-0506 EA 6" Standard Weight, Welded Plain End Black Steel Reducing Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	1,427.80 298.06 372.22	827.56
23 21 13 23-0507 EA 8" Standard Weight, Welded Plain End Black Steel Reducing Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	1,905.69 407.99 467.78	1,040.01

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 20 HVAC Piping and Pumps

23 21 Hydronic Piping and Pumps



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-0508	EA	10" Standard Weight, Welded Plain End Black Steel Reducing Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,400.03 529.00 545.74	1,213.29
23 21	13 23-0509	EA	12" Standard Weight, Welded Plain End Black Steel Reducing Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	3,222.37 721.13 701.66	1,560.01
23 21	13 23-0510	EA	14" Standard Weight, Welded Plain End Black Steel Reducing Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,149.15 958.23 818.60	1,820.07
23 21	13 23-0511	EA	16" Standard Weight, Welded Plain End Black Steel Reducing Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,991.69 1,153.69 982.33	2,184.04
23 21	13 23-0512	EA	18" Standard Weight, Welded Plain End Black Steel Reducing Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	6,443.37 1,550.99 1,091.48	2,426.72
23 21	13 23-0513	EA	20" Standard Weight, Welded Plain End Black Steel Reducing Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	8,527.71 2,128.54 1,227.91	2,730.11
23 21	13 23-0514	EA	24" Standard Weight, Welded Plain End Black Steel Reducing Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	10,218.24 2,602.64 1,322.36	2,940.12
23 21 13 23-0515 Welded Plain End Black Steel Eccentric Reducers (23 21 13 23-0393)					
23 21	13 23-0516	EA	1" x 3/4" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	227.07 53.52 41.73	92.79
23 21	13 23-0517	EA	1-1/4" x 1" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	240.61 56.16 45.79	101.82
23 21	13 23-0518	EA	1-1/4" x 3/4" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	237.06 55.46 44.73	99.45
23 21	13 23-0519	EA	1-1/2" x 1-1/4" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	257.02 59.36 50.72	112.76
23 21	13 23-0520	EA	1-1/2" x 1" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	247.03 57.41 47.72	106.10
23 21	13 23-0521	EA	1-1/2" x 3/4" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	243.48 56.72 46.65	103.73
23 21	13 23-0522	EA	2" x 1-1/2" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	255.16 55.35 60.56	134.63
23 21	13 23-0523	EA	2" x 1-1/4" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	281.75 64.00 58.63	130.36
23 21	13 23-0524	EA	2" x 1" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	271.77 62.06 55.64	123.70
23 21	13 23-0525	EA	2-1/2" x 2" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	318.61 68.62 77.04	171.28
23 21	13 23-0526	EA	2-1/2" x 1-1/2" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	302.85 66.66 69.12	153.67
23 21	13 23-0527	EA	2-1/2" x 1-1/4" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	355.05 83.00 67.19	149.39
23 21	13 23-0528	EA	3" x 2-1/2" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	355.93 76.51 86.48	192.20
23 21	13 23-0529	EA	3" x 2" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	360.71 77.95 86.48	192.20
23 21	13 23-0530	EA	3" x 1-1/2" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	370.84 80.99 86.48	192.20
23 21	13 23-0531	EA	4" x 3" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	589.10 124.16 150.20	333.88
23 21	13 23-0532	EA	4" x 2-1/2" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	593.89 125.60 150.20	333.88
23 21	13 23-0533	EA	4" x 2" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	608.29 129.92 150.20	333.88
23 21	13 23-0534	EA	6" x 4" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	997.57 213.66 244.60	543.77
23 21	13 23-0535	EA	6" x 3" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,100.94 244.67 244.60	543.77



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0536 EA 8" x 6" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer	1,473.06	827.56
For Schedule 80 Or Extra Heavy Fittings, Add	311.64	
For Work In Restricted Working Space, Add	372.22	
23 21 13 23-0537 EA 8" x 4" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer	1,665.40	827.56
For Schedule 80 Or Extra Heavy Fittings, Add	369.34	
For Work In Restricted Working Space, Add	372.22	
23 21 13 23-0538 EA 10" x 8" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer	1,731.09	951.70
For Schedule 80 Or Extra Heavy Fittings, Add	369.51	
For Work In Restricted Working Space, Add	428.05	
23 21 13 23-0539 EA 10" x 6" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer	1,962.35	951.70
For Schedule 80 Or Extra Heavy Fittings, Add	438.89	
For Work In Restricted Working Space, Add	428.05	
23 21 13 23-0540 EA 10" x 4" Standard Weight, Welded Plain End Black Steel Eccentric Reducer	2,266.60	951.70
For Schedule 80 Or Extra Heavy Fittings, Add	530.16	
For Concentric Reducers, Deduct	-268.72	
For Work In Restricted Working Space, Add	428.05	
23 21 13 23-0541 EA 12" x 10" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer	2,031.04	1,037.99
For Schedule 80 Or Extra Heavy Fittings, Add	445.90	
For Work In Restricted Working Space, Add	466.88	
23 21 13 23-0542 EA 12" x 8" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer	2,301.19	1,037.99
For Schedule 80 Or Extra Heavy Fittings, Add	526.95	
For Work In Restricted Working Space, Add	466.88	
23 21 13 23-0543 EA 12" x 6" Standard Weight, Welded Plain End Black Steel Eccentric Reducer	2,757.84	1,037.99
For Schedule 80 Or Extra Heavy Fittings, Add	663.94	
For Concentric Reducers, Deduct	-384.50	
For Work In Restricted Working Space, Add	466.88	
23 21 13 23-0544 EA 12" x 4" Standard Weight, Welded Plain End Black Steel Eccentric Reducer	2,023.38	1,037.99
For Schedule 80 Or Extra Heavy Fittings, Add	443.60	
For Concentric Reducers, Deduct	-149.47	
For Work In Restricted Working Space, Add	466.88	
23 21 13 23-0545 EA 14" x 12" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer	2,652.49	1,213.29
For Schedule 80 Or Extra Heavy Fittings, Add	604.74	
For Work In Restricted Working Space, Add	545.74	
23 21 13 23-0546 EA 14" x 10" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer	2,794.75	1,213.29
For Schedule 80 Or Extra Heavy Fittings, Add	647.42	
For Work In Restricted Working Space, Add	545.74	
23 21 13 23-0547 EA 14" x 8" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer	4,213.11	1,213.29
For Schedule 80 Or Extra Heavy Fittings, Add	1,072.93	
For Work In Restricted Working Space, Add	545.74	
23 21 13 23-0548 EA 16" x 14" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer	3,321.06	1,365.06
For Schedule 80 Or Extra Heavy Fittings, Add	781.43	
For Work In Restricted Working Space, Add	613.96	
23 21 13 23-0549 EA 16" x 12" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer	3,739.89	1,365.06
For Schedule 80 Or Extra Heavy Fittings, Add	907.08	
For Work In Restricted Working Space, Add	613.96	
23 21 13 23-0550 EA 16" x 10" Standard Weight, Welded Plain End Black Steel Eccentric Reducer	3,902.93	1,365.06
For Schedule 80 Or Extra Heavy Fittings, Add	955.99	
For Concentric Reducers, Deduct	-594.05	
For Work In Restricted Working Space, Add	613.96	
23 21 13 23-0551 EA 16" x 8" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer	5,739.64	1,365.06
For Schedule 80 Or Extra Heavy Fittings, Add	1,507.01	
For Work In Restricted Working Space, Add	613.96	
23 21 13 23-0552 EA 16" x 6" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer	6,653.60	1,365.06
For Schedule 80 Or Extra Heavy Fittings, Add	1,781.20	
For Work In Restricted Working Space, Add	613.96	
23 21 13 23-0553 EA 18" x 16" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer	4,634.87	1,560.01
For Schedule 80 Or Extra Heavy Fittings, Add	1,144.88	
For Work In Restricted Working Space, Add	701.66	
23 21 13 23-0554 EA 18" x 14" Standard Weight, Welded Plain End Black Steel Eccentric Reducer	2,750.58	1,560.01
For Schedule 80 Or Extra Heavy Fittings, Add	579.59	
For Concentric Reducers, Deduct	-131.74	
For Work In Restricted Working Space, Add	701.66	
23 21 13 23-0555 EA 18" x 12" Standard Weight, Welded Plain End Black Steel Eccentric Reducer	4,854.95	1,560.01
For Schedule 80 Or Extra Heavy Fittings, Add	1,210.90	
For Concentric Reducers, Deduct	-805.14	
For Work In Restricted Working Space, Add	701.66	
23 21 13 23-0556 EA 18" x 10" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer	5,179.43	1,560.01
For Schedule 80 Or Extra Heavy Fittings, Add	1,308.25	
For Work In Restricted Working Space, Add	701.66	
23 21 13 23-0557 EA 18" x 8" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer	7,922.74	1,560.01
For Schedule 80 Or Extra Heavy Fittings, Add	2,131.24	
For Work In Restricted Working Space, Add	701.66	
23 21 13 23-0558 EA 20" x 18" Standard Weight, Welded Plain End Black Steel Eccentric Reducer	5,524.39	1,761.26
For Schedule 80 Or Extra Heavy Fittings, Add	1,380.05	
For Concentric Reducers, Deduct	-922.79	
For Work In Restricted Working Space, Add	792.20	
23 21 13 23-0559 EA 20" x 16" Standard Weight, Welded Plain End Black Steel Eccentric Reducer	5,516.94	1,761.26
For Schedule 80 Or Extra Heavy Fittings, Add	1,377.81	
For Concentric Reducers, Deduct	-920.41	
For Work In Restricted Working Space, Add	792.20	
23 21 13 23-0560 EA 20" x 14" Standard Weight, Welded Plain End Black Steel Eccentric Reducer	9,146.12	1,761.26
For Schedule 80 Or Extra Heavy Fittings, Add	2,466.57	
For Concentric Reducers, Deduct	-2,081.75	
For Work In Restricted Working Space, Add	792.20	

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 20 HVAC Piping and Pumps

23 21 Hydronic Piping and Pumps



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0561 EA 20" x 12" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	10,601.82 2,903.28 792.20	1,761.26
23 21 13 23-0562 EA 20" x 10" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	12,785.44 3,558.36 792.20	1,761.26
23 21 13 23-0563 EA 24" x 20" Standard Weight, Welded Plain End Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Concentric Reducers, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	6,509.72 1,666.40 -1,209.93 818.60	1,820.07
23 21 13 23-0564 EA 24" x 18" Standard Weight, Welded Plain End Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Concentric Reducers, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	6,949.68 1,798.39 -1,350.72 818.60	1,820.07
23 21 13 23-0565 EA 24" x 16" Standard Weight, Welded Plain End Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Concentric Reducers, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	8,993.81 2,411.63 -2,004.84 818.60	1,820.07
23 21 13 23-0566 EA 24" x 14" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	12,797.75 3,552.81 818.60	1,820.07
23 21 13 23-0567 EA 24" x 12" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	15,650.01 4,408.49 818.60	1,820.07
23 21 13 23-0568 Welded Plain End Black Steel Concentric Reducers (23 21 13 23-0393)		
23 21 13 23-0569 EA 1" x 3/4" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	204.04 46.61 41.73	92.79
23 21 13 23-0570 EA 1-1/4" x 1" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	217.58 49.25 45.79	101.82
23 21 13 23-0571 EA 1-1/4" x 3/4" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	214.03 48.55 44.73	99.45
23 21 13 23-0572 EA 1-1/2" x 1-1/4" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	233.99 52.45 50.72	112.76
23 21 13 23-0573 EA 1-1/2" x 1" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	224.00 50.50 47.72	106.10
23 21 13 23-0574 EA 1-1/2" x 3/4" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	220.45 49.81 46.65	103.73
23 21 13 23-0575 EA 2" x 1-1/2" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	243.43 51.83 60.56	134.63
23 21 13 23-0576 EA 2" x 1-1/4" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	237.00 50.58 58.63	130.36
23 21 13 23-0577 EA 2" x 1" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	243.01 53.43 55.64	123.70
23 21 13 23-0578 EA 2-1/2" x 2" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	310.08 66.06 77.04	171.28
23 21 13 23-0579 EA 2-1/2" x 1-1/2" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	298.07 65.23 69.12	153.67
23 21 13 23-0580 EA 2-1/2" x 1-1/4" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	314.55 70.85 67.19	149.39
23 21 13 23-0581 EA 3" x 2-1/2" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	331.41 69.16 86.48	192.20
23 21 13 23-0582 EA 3" x 2" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	334.61 70.12 86.48	192.20
23 21 13 23-0583 EA 3" x 1-1/2" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	341.54 72.20 86.48	192.20
23 21 13 23-0584 EA 4" x 3" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	556.07 114.25 150.20	333.88
23 21 13 23-0585 EA 4" x 2-1/2" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	568.33 117.93 150.20	333.88
23 21 13 23-0586 EA 4" x 2" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	568.33 117.93 150.20	333.88
23 21 13 23-0587 EA 6" x 4" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	931.52 193.85 244.60	543.77



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0588 EA 6" x 3" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	956.01 201.19 244.60	543.77
23 21 13 23-0589 EA 8" x 6" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	1,393.12 287.66 372.22	827.56
23 21 13 23-0590 EA 8" x 4" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	1,436.82 300.77 372.22	827.56
23 21 13 23-0591 EA 10" x 8" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	1,722.57 366.95 428.05	951.70
23 21 13 23-0592 EA 10" x 6" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	1,704.46 361.52 428.05	951.70
23 21 13 23-0593 EA 10" x 4" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	1,932.51 429.93 428.05	951.70
23 21 13 23-0594 EA 12" x 10" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	1,921.81 413.13 466.88	1,037.99
23 21 13 23-0595 EA 12" x 8" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	1,976.57 429.56 466.88	1,037.99
23 21 13 23-0596 EA 12" x 6" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	1,996.40 435.51 466.88	1,037.99
23 21 13 23-0597 EA 12" x 4" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	2,577.74 609.91 466.88	1,037.99
23 21 13 23-0598 EA 14" x 12" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	2,369.01 519.70 545.74	1,213.29
23 21 13 23-0599 EA 14" x 10" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	2,572.02 580.60 545.74	1,213.29
23 21 13 23-0600 EA 14" x 8" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	2,748.39 633.51 545.74	1,213.29
23 21 13 23-0601 EA 14" x 8" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	3,430.02 838.00 545.74	1,213.29
23 21 13 23-0602 EA 16" x 14" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	3,008.82 687.76 613.96	1,365.06
23 21 13 23-0603 EA 16" x 12" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	3,008.82 687.76 613.96	1,365.06
23 21 13 23-0604 EA 16" x 10" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	3,110.07 718.14 613.96	1,365.06
23 21 13 23-0605 EA 16" x 8" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	3,446.28 819.00 613.96	1,365.06
23 21 13 23-0606 EA 16" x 6" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	4,838.72 1,236.73 613.96	1,365.06
23 21 13 23-0607 EA 18" x 16" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	3,390.16 771.47 701.66	1,560.01
23 21 13 23-0608 EA 18" x 14" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	3,649.66 849.32 701.66	1,560.01
23 21 13 23-0609 EA 18" x 12" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	3,758.36 881.93 701.66	1,560.01
23 21 13 23-0610 EA 18" x 10" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	4,054.07 970.64 701.66	1,560.01
23 21 13 23-0611 EA 18" x 8" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	7,452.42 1,990.14 701.66	1,560.01
23 21 13 23-0612 EA 20" x 18" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	4,444.85 1,056.19 792.20	1,761.26
23 21 13 23-0613 EA 20" x 16" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	4,444.85 1,056.19 792.20	1,761.26
23 21 13 23-0614 EA 20" x 14" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	4,518.92 1,078.41 792.20	1,761.26
23 21 13 23-0615 EA 20" x 12" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	4,957.45 1,209.97 792.20	1,761.26

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0616 EA 20" x 10" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	5,720.47 1,438.87 792.20	1,761.26
23 21 13 23-0617 EA 24" x 20" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,769.47 1,144.33 818.60	1,820.07
23 21 13 23-0618 EA 24" x 18" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,815.81 1,158.23 818.60	1,820.07
23 21 13 23-0619 EA 24" x 16" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,906.39 1,185.41 818.60	1,820.07
23 21 13 23-0620 EA 24" x 14" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	7,003.65 1,814.58 818.60	1,820.07
23 21 13 23-0621 EA 24" x 12" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	7,417.67 1,938.79 818.60	1,820.07
23 21 13 23-0622 Welded Plain End Black Steel Caps (23 21 13 23-0393)		
23 21 13 23-0623 EA 1" Standard Weight, Welded Plain End Black Steel Cap <i>For Schedule 80 Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	81.97 15.67 21.40	47.66
23 21 13 23-0624 EA 1-1/4" Standard Weight, Welded Plain End Black Steel Cap <i>For Schedule 80 Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	89.78 17.12 23.54	52.36
23 21 13 23-0625 EA 1-1/2" Standard Weight, Welded Plain End Black Steel Cap <i>For Schedule 80 Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	93.29 17.82 24.40	54.22
23 21 13 23-0626 EA 2" Standard Weight, Welded Plain End Black Steel Cap <i>For Schedule 80 Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	116.73 22.00 31.25	69.49
23 21 13 23-0627 EA 2-1/2" Standard Weight, Welded Plain End Black Steel Cap <i>For Schedule 80 Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	138.73 25.92 37.67	83.76
23 21 13 23-0628 EA 3" Standard Weight, Welded Plain End Black Steel Cap <i>For Schedule 80 Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	162.13 30.53 43.46	96.59
23 21 13 23-0629 EA 4" Standard Weight, Welded Plain End Black Steel Cap <i>For Schedule 80 Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	273.31 50.70 75.10	166.94
23 21 13 23-0630 EA 6" Standard Weight, Welded Plain End Black Steel Cap <i>For Schedule 80 Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	457.23 85.47 124.07	275.80
23 21 13 23-0631 EA 8" Standard Weight, Welded Plain End Black Steel Cap <i>For Schedule 80 Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	645.18 121.10 173.90	386.67
23 21 13 23-0632 EA 10" Standard Weight, Welded Plain End Black Steel Cap <i>For Schedule 80 Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	846.68 162.54 219.51	488.12
23 21 13 23-0633 EA 12" Standard Weight, Welded Plain End Black Steel Cap <i>For Schedule 80 Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	905.25 176.39 228.45	507.91
23 21 13 23-0634 EA 14" Standard Weight, Welded Plain End Black Steel Cap <i>For Schedule 80 Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,179.78 240.24 272.87	606.65
23 21 13 23-0635 EA 16" Standard Weight, Welded Plain End Black Steel Cap <i>For Schedule 80 Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,370.15 279.01 316.88	704.51
23 21 13 23-0636 EA 18" Standard Weight, Welded Plain End Black Steel Cap <i>For Schedule 80 Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,530.43 312.95 350.83	780.07
23 21 13 23-0637 150 LB, Welded Plain End Black Steel Neck Flanges (23 21 13 23-0393)		
Note: Excludes bolt and gasket sets See CSI section 23 21 13 23-0713 for Class 150 steel bolt and gasket set.		
23 21 13 23-0638 EA 2", 150 LB, Welded Plain End Black Steel Neck Flange <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	197.30 42.14 48.39	107.58
23 21 13 23-0639 EA 2-1/2", 150 LB, Welded Plain End Black Steel Neck Flange <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	237.26 46.33 60.38	134.27
23 21 13 23-0640 EA 3", 150 LB, Welded Plain End Black Steel Neck Flange <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	266.19 49.40 69.04	153.52
23 21 13 23-0641 EA 4", 150 LB, Welded Plain End Black Steel Neck Flange <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	349.51 64.02 91.08	202.47
23 21 13 23-0642 EA 6", 150 LB, Welded Plain End Black Steel Neck Flange <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	530.93 97.79 138.08	307.06
23 21 13 23-0643 EA 8", 150 LB, Welded Plain End Black Steel Neck Flange <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	553.15 123.92 132.75	295.20



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0644 EA 10", 150 LB, Welded Plain End Black Steel Neck Flange.....	716.68	370.14
For 300 LB Rating, Add	171.46	
For Work In Restricted Working Space, Add	166.50	
23 21 13 23-0645 EA 12", 150 LB, Welded Plain End Black Steel Neck Flange.....	865.45	420.01
For 300 LB Rating, Add	231.14	
For Work In Restricted Working Space, Add	188.91	
23 21 13 23-0646 EA 14", 150 LB, Welded Plain End Black Steel Neck Flange.....	1,119.39	507.91
For 300 LB Rating, Add	330.48	
For Work In Restricted Working Space, Add	228.45	
23 21 13 23-0647 EA 16", 150 LB, Welded Plain End Black Steel Neck Flange.....	1,444.14	590.27
For 300 LB Rating, Add	484.33	
For Work In Restricted Working Space, Add	265.49	
23 21 13 23-0648 EA 18", 150 LB, Welded Plain End Black Steel Neck Flange.....	1,768.51	661.81
For 300 LB Rating, Add	647.57	
For Work In Restricted Working Space, Add	297.68	
23 21 13 23-0649 EA 20", 150 LB, Welded Plain End Black Steel Neck Flange.....	2,242.57	840.01
For 300 LB Rating, Add	820.46	
For Work In Restricted Working Space, Add	377.82	
23 21 13 23-0650 EA 24", 150 LB, Welded Plain End Black Steel Neck Flange.....	2,531.84	910.04
For 300 LB Rating, Add	960.51	
For Work In Restricted Working Space, Add	409.30	
23 21 13 23-0651 150 LB, Welded Black Steel Slip-On Flanges <small>(23 21 13 23-0393)</small>		
Note: Excludes bolt and gasket sets See CSI section 23 21 13 23-0713 for Class 150 steel bolt and gasket set.		
23 21 13 23-0652 EA 2", 150 LB, Welded Black Steel Slip-On Flanges	150.39	107.58
For 300 LB Rating, Add	33.26	
For Work In Restricted Working Space, Add	38.53	
23 21 13 23-0653 EA 2-1/2", 150 LB, Welded Black Steel Slip-On Flange	185.16	134.27
For 300 LB Rating, Add	41.87	
For Work In Restricted Working Space, Add	47.09	
23 21 13 23-0654 EA 3", 150 LB, Welded Black Steel Slip-On Flange	218.69	153.52
For 300 LB Rating, Add	49.36	
For Work In Restricted Working Space, Add	55.65	
23 21 13 23-0655 EA 4", 150 LB, Welded Black Steel Slip-On Flange	287.86	202.47
For 300 LB Rating, Add	66.24	
For Work In Restricted Working Space, Add	72.77	
23 21 13 23-0656 EA 6", 150 LB, Welded Black Steel Slip-On Flange	426.42	307.06
For 300 LB Rating, Add	100.19	
For Work In Restricted Working Space, Add	107.01	
23 21 13 23-0657 EA 8", 150 LB, Welded Black Steel Slip-On Flange	509.06	295.20
For 300 LB Rating, Add	137.76	
For Work In Restricted Working Space, Add	120.90	
23 21 13 23-0658 EA 10", 150 LB, Welded Black Steel Slip-On Flange	686.84	370.14
For 300 LB Rating, Add	217.67	
For Work In Restricted Working Space, Add	151.13	
23 21 13 23-0659 EA 12", 150 LB, Welded Black Steel Slip-On Flange	893.38	420.01
For 300 LB Rating, Add	323.46	
For Work In Restricted Working Space, Add	181.35	
23 21 13 23-0660 EA 14", 150 LB, Welded Black Steel Slip-On Flange	1,127.30	507.91
For 300 LB Rating, Add	453.89	
For Work In Restricted Working Space, Add	211.58	
23 21 13 23-0661 EA 16", 150 LB, Welded Black Steel Slip-On Flange	1,349.07	590.27
For 300 LB Rating, Add	593.40	
For Work In Restricted Working Space, Add	234.25	
23 21 13 23-0662 EA 18", 150 LB, Welded Black Steel Slip-On Flange	1,493.52	661.81
For 300 LB Rating, Add	663.34	
For Work In Restricted Working Space, Add	256.92	
23 21 13 23-0663 EA 20", 150 LB, Welded Black Steel Slip-On Flange	1,656.16	840.01
For 300 LB Rating, Add	749.64	
For Work In Restricted Working Space, Add	279.59	
23 21 13 23-0664 EA 24", 150 LB, Welded Black Steel Slip-On Flange	1,896.78	910.04
For 300 LB Rating, Add	846.05	
For Work In Restricted Working Space, Add	324.92	
23 21 13 23-0665 150 LB, Forged Steel Blind Flanges <small>(23 21 13 23-0393)</small>		
23 21 13 23-0666 EA 2", 150 LB, Forged Steel Blind Flange.....	96.91	38.29
For 300 LB Rating, Add	24.30	
For 600 LB Rating, Add	60.26	
For Work In Restricted Working Space, Add	22.98	
23 21 13 23-0667 EA 2-1/2", 150 LB, Forged Steel Blind Flange.....	124.85	45.95
For 300 LB Rating, Add	36.01	
For 600 LB Rating, Add	92.87	
For Work In Restricted Working Space, Add	27.57	
23 21 13 23-0668 EA 3", 150 LB, Forged Steel Blind Flange.....	156.62	61.28
For 300 LB Rating, Add	40.13	
For 600 LB Rating, Add	100.17	
For Work In Restricted Working Space, Add	36.76	
23 21 13 23-0669 EA 4", 150 LB, Forged Steel Blind Flange.....	200.16	76.59
For 300 LB Rating, Add	53.67	
For 600 LB Rating, Add	135.73	
For Work In Restricted Working Space, Add	45.95	

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 20 HVAC Piping and Pumps

23 21 Hydronic Piping and Pumps



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0670 EA 6", 150 LB, Forged Steel Blind Flange.....	270.31	99.57
For 300 LB Rating, Add	77.85	
For 600 LB Rating, Add	200.70	
For Work In Restricted Working Space, Add	59.74	
23 21 13 23-0671 EA 8", 150 LB, Forged Steel Blind Flange.....	342.69	114.88
For 300 LB Rating, Add	114.46	
For 600 LB Rating, Add	305.47	
For Work In Restricted Working Space, Add	68.93	
23 21 13 23-0672 EA 10", 150 LB, Forged Steel Blind Flange.....	496.22	137.86
For 300 LB Rating, Add	205.35	
For 600 LB Rating, Add	570.56	
For Work In Restricted Working Space, Add	82.72	
23 21 13 23-0673 EA 12", 150 LB, Forged Steel Blind Flange.....	633.76	160.84
For 300 LB Rating, Add	283.45	
For 600 LB Rating, Add	797.27	
For Work In Restricted Working Space, Add	96.50	
23 21 13 23-0674 EA 14", 150 LB, Forged Steel Blind Flange.....	1,010.21	183.82
For 300 LB Rating, Add	552.67	
For Work In Restricted Working Space, Add	110.29	
23 21 13 23-0675 EA 16", 150 LB, Forged Steel Blind Flange.....	1,090.90	206.79
For 300 LB Rating, Add	585.28	
For Work In Restricted Working Space, Add	124.07	
23 21 13 23-0676 EA 18", 150 LB, Forged Steel Blind Flange.....	1,241.15	252.75
For 300 LB Rating, Add	641.60	
For Work In Restricted Working Space, Add	151.65	
23 21 13 23-0677 EA 20", 150 LB, Forged Steel Blind Flange.....	1,558.68	275.72
For 300 LB Rating, Add	863.69	
For Work In Restricted Working Space, Add	165.43	
23 21 13 23-0678 EA 24", 150 LB, Forged Steel Blind Flange.....	2,085.38	321.67
For 300 LB Rating, Add	1,221.18	
For Work In Restricted Working Space, Add	193.01	
23 21 13 23-0679 3,000 LB, Forge Steel Thread-O-Lets (23 21 13 23-0393)		
23 21 13 23-0680 EA 1/2", 3,000 LB, Forge Steel Thread-O-Let.....	96.34	
For Work In Restricted Working Space, Add	26.97	
23 21 13 23-0681 EA 3/4", 3,000 LB, Forge Steel Thread-O-Let.....	101.73	
For Work In Restricted Working Space, Add	28.25	
23 21 13 23-0682 EA 1", 3,000 LB, Forge Steel Thread-O-Let.....	108.36	
For Work In Restricted Working Space, Add	29.96	
23 21 13 23-0683 EA 1-1/4", 3,000 LB, Forge Steel Thread-O-Let.....	119.04	
For Work In Restricted Working Space, Add	32.10	
23 21 13 23-0684 EA 1-1/2", 3,000 LB, Forge Steel Thread-O-Let.....	133.91	
For Work In Restricted Working Space, Add	36.38	
23 21 13 23-0685 EA 2", 3,000 LB, Forge Steel Thread-O-Let.....	173.58	
For Work In Restricted Working Space, Add	47.56	
23 21 13 23-0686 EA 2-1/2", 3,000 LB, Forge Steel Thread-O-Let.....	258.41	
For Work In Restricted Working Space, Add	61.15	
23 21 13 23-0687 EA 3", 3,000 LB, Forge Steel Thread-O-Let.....	357.58	
For Work In Restricted Working Space, Add	85.61	
23 21 13 23-0688 EA 4", 3,000 LB, Forge Steel Thread-O-Let.....	469.56	
For Work In Restricted Working Space, Add	107.01	
23 21 13 23-0689 3,000 LB, Forge Steel Weld-O-Lets (23 21 13 23-0393)		
23 21 13 23-0690 EA 1/2", 3,000 LB, Forge Steel Weld-O-Let.....	118.01	
For Work In Restricted Working Space, Add	31.12	
23 21 13 23-0691 EA 3/4", 3,000 LB, Forge Steel Weld-O-Let.....	125.48	
For Work In Restricted Working Space, Add	32.62	
23 21 13 23-0692 EA 1", 3,000 LB, Forge Steel Weld-O-Let.....	132.95	
For Work In Restricted Working Space, Add	34.25	
23 21 13 23-0693 EA 1-1/4", 3,000 LB, Forge Steel Weld-O-Let.....	153.51	
For Work In Restricted Working Space, Add	38.06	
23 21 13 23-0694 EA 1-1/2", 3,000 LB, Forge Steel Weld-O-Let.....	170.67	
For Work In Restricted Working Space, Add	42.80	
23 21 13 23-0695 EA 2", 3,000 LB, Forge Steel Weld-O-Let.....	227.97	
For Work In Restricted Working Space, Add	57.06	
23 21 13 23-0696 EA 2-1/2", 3,000 LB, Forge Steel Weld-O-Let.....	349.27	
For Work In Restricted Working Space, Add	68.49	
23 21 13 23-0697 EA 3", 3,000 LB, Forge Steel Weld-O-Let.....	459.67	
For Work In Restricted Working Space, Add	89.89	
23 21 13 23-0698 EA 4", 3,000 LB, Forge Steel Weld-O-Let.....	630.65	
For Work In Restricted Working Space, Add	114.16	
23 21 13 23-0699 EA 6", 3,000 LB, Forge Steel Weld-O-Let.....	902.48	
For Work In Restricted Working Space, Add	171.22	
23 21 13 23-0700 EA 8", 3,000 LB, Forge Steel Weld-O-Let.....	1,388.64	
For Work In Restricted Working Space, Add	228.28	
23 21 13 23-0701 EA 10", 3,000 LB, Forge Steel Weld-O-Let.....	1,770.54	
For Work In Restricted Working Space, Add	263.42	
23 21 13 23-0702 EA 12", 3,000 LB, Forge Steel Weld-O-Let.....	2,732.89	
For Work In Restricted Working Space, Add	311.32	
23 21 13 23-0703 3,000 LB, Forge Steel Sock-O-Lets (23 21 13 23-0393)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0704 EA 1/2", 3,000 LB, Forge Steel Sock-O-Let.....	137.61	
<i>For Work In Restricted Working Space, Add</i>	37.20	
23 21 13 23-0705 EA 3/4", 3,000 LB, Forge Steel Sock-O-Let.....	145.97	
<i>For Work In Restricted Working Space, Add</i>	38.99	
23 21 13 23-0706 EA 1", 3,000 LB, Forge Steel Sock-O-Let.....	155.75	
<i>For Work In Restricted Working Space, Add</i>	41.35	
23 21 13 23-0707 EA 1-1/4", 3,000 LB, Forge Steel Sock-O-Let.....	173.10	
<i>For Work In Restricted Working Space, Add</i>	44.30	
23 21 13 23-0708 EA 1-1/2", 3,000 LB, Forge Steel Sock-O-Let.....	194.04	
<i>For Work In Restricted Working Space, Add</i>	50.21	
23 21 13 23-0709 EA 2", 3,000 LB, Forge Steel Sock-O-Let.....	252.06	
<i>For Work In Restricted Working Space, Add</i>	65.62	
23 21 13 23-0710 EA 2-1/2", 3,000 LB, Forge Steel Sock-O-Let.....	396.56	
<i>For Work In Restricted Working Space, Add</i>	84.37	
23 21 13 23-0711 EA 3", 3,000 LB, Forge Steel Sock-O-Let.....	546.39	
<i>For Work In Restricted Working Space, Add</i>	118.14	
23 21 13 23-0712 EA 4", 3,000 LB, Forge Steel Sock-O-Let.....	730.72	
<i>For Work In Restricted Working Space, Add</i>	147.68	
23 21 13 23-0713 Class 150 Flange, Steel Bolt And Gasket Sets <small>(23 21 13 23-0393)</small>		
Note: Used between weld neck or slip-on flanges and valves, or equipment with bolt connections, or between two bolted valves. Flanged equipment, flanged fittings and flanged valves exclude bolt and gasket sets.		
23 21 13 23-0714 EA 3/4" To 1-1/2" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....	16.01	
Note: Includes rubber gasket, and four (4) 1/2" diameter bolts with washers and nut.		
<i>For Zinc Plated, Add</i>	4.48	
<i>For Hot Dip Galvanized, Add</i>	6.40	
<i>For Advanced Fluoropolymer (Blue Coating), Add</i>	11.21	
23 21 13 23-0715 EA 2" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....	20.32	
Note: Includes rubber gasket, and four (4) 5/8" diameter bolts with washers and nut.		
<i>For Zinc Plated, Add</i>	5.69	
<i>For Hot Dip Galvanized, Add</i>	8.13	
<i>For Advanced Fluoropolymer (Blue Coating), Add</i>	14.22	
23 21 13 23-0716 EA 2-1/2" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....	20.54	
Note: Includes rubber gasket, and four (4) 5/8" diameter bolts with washers and nut.		
<i>For Zinc Plated, Add</i>	5.75	
<i>For Hot Dip Galvanized, Add</i>	8.22	
<i>For Advanced Fluoropolymer (Blue Coating), Add</i>	14.38	
23 21 13 23-0717 EA 3" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....	20.64	
Note: Includes rubber gasket, and four (4) 5/8" diameter bolts with washers and nut.		
<i>For Zinc Plated, Add</i>	5.78	
<i>For Hot Dip Galvanized, Add</i>	8.26	
<i>For Advanced Fluoropolymer (Blue Coating), Add</i>	14.45	
23 21 13 23-0718 EA 4" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....	46.14	
Note: Includes rubber gasket, and eight (8) 5/8" diameter bolts with washers and nut.		
<i>For Zinc Plated, Add</i>	12.92	
<i>For Hot Dip Galvanized, Add</i>	18.46	
<i>For Advanced Fluoropolymer (Blue Coating), Add</i>	32.30	
23 21 13 23-0719 EA 5" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....	65.88	
Note: Includes rubber gasket, and eight (8) 3/4" diameter bolts with washers and nut.		
<i>For Zinc Plated, Add</i>	18.45	
<i>For Hot Dip Galvanized, Add</i>	26.35	
<i>For Advanced Fluoropolymer (Blue Coating), Add</i>	46.12	
23 21 13 23-0720 EA 6" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....	71.24	
Note: Includes rubber gasket, and eight (8) 3/4" diameter bolts with washers and nut.		
<i>For Zinc Plated, Add</i>	19.95	
<i>For Hot Dip Galvanized, Add</i>	28.50	
<i>For Advanced Fluoropolymer (Blue Coating), Add</i>	49.87	
23 21 13 23-0721 EA 8" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....	78.10	
Note: Includes rubber gasket, and eight (8) 3/4" diameter bolts with washers and nut.		
<i>For Zinc Plated, Add</i>	21.87	
<i>For Hot Dip Galvanized, Add</i>	31.24	
<i>For Advanced Fluoropolymer (Blue Coating), Add</i>	54.67	
23 21 13 23-0722 EA 10" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....	172.64	
Note: Includes rubber gasket, and twelve (12) 7/8" diameter bolts with washers and nut.		
<i>For Zinc Plated, Add</i>	48.34	
<i>For Hot Dip Galvanized, Add</i>	69.06	
<i>For Advanced Fluoropolymer (Blue Coating), Add</i>	120.85	
23 21 13 23-0723 EA 12" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....	175.98	
Note: Includes rubber gasket, and twelve (12) 7/8" diameter bolts with washers and nut.		
<i>For Zinc Plated, Add</i>	49.27	
<i>For Hot Dip Galvanized, Add</i>	70.39	
<i>For Advanced Fluoropolymer (Blue Coating), Add</i>	123.19	
23 21 13 23-0724 EA 14" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....	197.37	
Note: Includes rubber gasket, and twelve (12) 1" diameter bolts with washers and nut.		
<i>For Zinc Plated, Add</i>	55.26	
<i>For Hot Dip Galvanized, Add</i>	78.95	
<i>For Advanced Fluoropolymer (Blue Coating), Add</i>	138.16	
23 21 13 23-0725 EA 16" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....	327.81	
Note: Includes rubber gasket, and sixteen (16) 1" diameter bolts with washers and nut.		
<i>For Zinc Plated, Add</i>	91.79	
<i>For Hot Dip Galvanized, Add</i>	131.12	
<i>For Advanced Fluoropolymer (Blue Coating), Add</i>	229.47	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-0726	EA	18" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....	472.61	
			Note: Includes rubber gasket, and sixteen (16) 1-1/8" diameter bolts with washers and nut.		
			For Zinc Plated, Add	132.33	
			For Hot Dip Galvanized, Add	189.04	
			For Advanced Fluoropolymer (Blue Coating), Add	330.83	
23 21	13 23-0727	EA	20" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....	597.10	
			Note: Includes rubber gasket, and twenty (20) 1-1/8" diameter bolts with washers and nut.		
			For Zinc Plated, Add	167.19	
			For Hot Dip Galvanized, Add	238.84	
			For Advanced Fluoropolymer (Blue Coating), Add	417.97	
23 21	13 23-0728	EA	24" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....	850.95	
			Note: Includes rubber gasket, and twenty (20) 1-1/4" diameter bolts with washers and nut.		
			For Zinc Plated, Add	238.27	
			For Hot Dip Galvanized, Add	340.38	
			For Advanced Fluoropolymer (Blue Coating), Add	595.67	
23 21	13 23-0729	EA	30" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....	1,343.35	
			Note: Includes rubber gasket, and twenty-eight (28) 1-1/4" diameter bolts with washers and nut.		
			For Zinc Plated, Add	376.14	
			For Hot Dip Galvanized, Add	537.34	
			For Advanced Fluoropolymer (Blue Coating), Add	940.35	
23 21	13 23-0730	EA	36" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....	1,911.60	
			Note: Includes rubber gasket, and thirty-two (32) 1-1/2" diameter bolts with washers and nut.		
			For Zinc Plated, Add	535.25	
			For Hot Dip Galvanized, Add	764.64	
			For Advanced Fluoropolymer (Blue Coating), Add	1,338.12	
23 21	13 23-0731		Class 300 Flange, Steel Bolt And Gasket Sets (23 21 13 23-0393)		
			Note: Used between weld neck or slip-on flanges and valves, or equipment with bolt connections, or between two bolted valves. Flanged equipment, flanged fittings and flanged valves exclude bolt and gasket sets.		
23 21	13 23-0732	EA	3/4" To 1-1/2" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set	25.69	
			Note: Includes rubber gasket, and four (4) 5/8" diameter bolts with washers and nut.		
			For Zinc Plated, Add	7.19	
			For Hot Dip Galvanized, Add	10.28	
			For Advanced Fluoropolymer (Blue Coating), Add	17.98	
23 21	13 23-0733	EA	2" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	47.10	
			Note: Includes rubber gasket, and eight (8) 5/8" diameter bolts with washers and nut.		
			For Zinc Plated, Add	13.19	
			For Hot Dip Galvanized, Add	18.84	
			For Advanced Fluoropolymer (Blue Coating), Add	32.97	
23 21	13 23-0734	EA	2-1/2" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	73.28	
			Note: Includes rubber gasket, and eight (8) 3/4" diameter bolts with washers and nut.		
			For Zinc Plated, Add	20.52	
			For Hot Dip Galvanized, Add	29.31	
			For Advanced Fluoropolymer (Blue Coating), Add	51.30	
23 21	13 23-0735	EA	3" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	79.62	
			Note: Includes rubber gasket, and eight (8) 3/4" diameter bolts with washers and nut.		
			For Zinc Plated, Add	22.29	
			For Hot Dip Galvanized, Add	31.85	
			For Advanced Fluoropolymer (Blue Coating), Add	55.73	
23 21	13 23-0736	EA	4" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	81.28	
			Note: Includes rubber gasket, and eight (8) 3/4" diameter bolts with washers and nut.		
			For Zinc Plated, Add	22.76	
			For Hot Dip Galvanized, Add	32.51	
			For Advanced Fluoropolymer (Blue Coating), Add	56.90	
23 21	13 23-0737	EA	5" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	87.54	
			Note: Includes rubber gasket, and eight (8) 3/4" diameter bolts with washers and nut.		
			For Zinc Plated, Add	24.51	
			For Hot Dip Galvanized, Add	35.02	
			For Advanced Fluoropolymer (Blue Coating), Add	61.28	
23 21	13 23-0738	EA	6" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	125.89	
			Note: Includes rubber gasket, and twelve (12) 3/4" diameter bolts with washers and nut.		
			For Zinc Plated, Add	35.25	
			For Hot Dip Galvanized, Add	50.36	
			For Advanced Fluoropolymer (Blue Coating), Add	88.12	
23 21	13 23-0739	EA	8" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	195.26	
			Note: Includes rubber gasket, and twelve (12) 7/8" diameter bolts with washers and nut.		
			For Zinc Plated, Add	54.67	
			For Hot Dip Galvanized, Add	78.10	
			For Advanced Fluoropolymer (Blue Coating), Add	136.68	
23 21	13 23-0740	EA	10" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	356.94	
			Note: Includes rubber gasket, and sixteen (16) 1" diameter bolts with washers and nut.		
			For Zinc Plated, Add	99.94	
			For Hot Dip Galvanized, Add	142.78	
			For Advanced Fluoropolymer (Blue Coating), Add	249.86	
23 21	13 23-0741	EA	12" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	514.80	
			Note: Includes rubber gasket, and sixteen (16) 1-1/8" diameter bolts with washers and nut.		
			For Zinc Plated, Add	144.14	
			For Hot Dip Galvanized, Add	205.92	
			For Advanced Fluoropolymer (Blue Coating), Add	360.36	
23 21	13 23-0742	EA	14" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	704.38	
			Note: Includes rubber gasket, and twenty (20) 1-1/8" diameter bolts with washers and nut.		
			For Zinc Plated, Add	197.23	
			For Hot Dip Galvanized, Add	281.75	
			For Advanced Fluoropolymer (Blue Coating), Add	493.07	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0743 EA 16" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	972.13	
Note: Includes rubber gasket, and twenty (20) 1-1/4" diameter bolts with washers and nut.		
For Zinc Plated, Add	272.20	
For Hot Dip Galvanized, Add	388.85	
For Advanced Fluoropolymer (Blue Coating), Add	680.49	
23 21 13 23-0744 EA 18" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	1,248.64	
Note: Includes rubber gasket, and twenty-four (24) 1-1/4" diameter bolts with washers and nut.		
For Zinc Plated, Add	349.62	
For Hot Dip Galvanized, Add	499.46	
For Advanced Fluoropolymer (Blue Coating), Add	874.05	
23 21 13 23-0745 EA 20" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	1,325.34	
Note: Includes rubber gasket, and twenty-four (24) 1-1/4" diameter bolts with washers and nut.		
For Zinc Plated, Add	371.10	
For Hot Dip Galvanized, Add	530.14	
For Advanced Fluoropolymer (Blue Coating), Add	927.74	
23 21 13 23-0746 EA 24" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	1,680.55	
Note: Includes rubber gasket, and twenty-four (24) 1-1/2" diameter bolts with washers and nut.		
For Zinc Plated, Add	470.55	
For Hot Dip Galvanized, Add	672.22	
For Advanced Fluoropolymer (Blue Coating), Add	1,176.39	
23 21 13 23-0747 EA 30" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	2,639.97	
Note: Includes rubber gasket, and twenty-eight (28) 1-3/4" diameter bolts with washers and nut.		
For Zinc Plated, Add	739.19	
For Hot Dip Galvanized, Add	1,055.99	
For Advanced Fluoropolymer (Blue Coating), Add	1,847.98	
23 21 13 23-0748 EA 36" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	4,001.40	
Note: Includes rubber gasket, and thirty-two (32) 2" diameter bolts with washers and nut.		
For Zinc Plated, Add	1,120.39	
For Hot Dip Galvanized, Add	1,600.56	
For Advanced Fluoropolymer (Blue Coating), Add	2,800.98	
23 21 13 23-0749 Class 150 Flange, Stainless Steel Bolt And Gasket Sets <small>(23 21 13 23-0393)</small>		
Note: Used between weld neck or slip-on flanges and valves, or equipment with bolt connections, or between two bolted valves. Flanged equipment, flanged fittings and flanged valves exclude bolt and gasket sets.		
23 21 13 23-0750 EA 3/4" To 1-1/2" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set.....	16.01	
Note: Includes rubber gasket, and four (4) 1/2" diameter bolts with washers and nut.		
23 21 13 23-0751 EA 2" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set.....	60.73	
Note: Includes rubber gasket, and four (4) 5/8" diameter bolts with washers and nut.		
23 21 13 23-0752 EA 2-1/2" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set.....	60.83	
Note: Includes rubber gasket, and four (4) 5/8" diameter bolts with washers and nut.		
23 21 13 23-0753 EA 3" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set.....	60.93	
Note: Includes rubber gasket, and four (4) 5/8" diameter bolts with washers and nut.		
23 21 13 23-0754 EA 4" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set.....	128.89	
Note: Includes rubber gasket, and eight (8) 5/8" diameter bolts with washers and nut.		
23 21 13 23-0755 EA 5" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set.....	163.57	
Note: Includes rubber gasket, and eight (8) 3/4" diameter bolts with washers and nut.		
23 21 13 23-0756 EA 6" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set.....	184.53	
Note: Includes rubber gasket, and eight (8) 3/4" diameter bolts with washers and nut.		
23 21 13 23-0757 EA 8" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set.....	185.53	
Note: Includes rubber gasket, and eight (8) 3/4" diameter bolts with washers and nut.		
23 21 13 23-0758 EA 10" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set.....	478.79	
Note: Includes rubber gasket, and twelve (12) 7/8" diameter bolts with washers and nut.		
23 21 13 23-0759 EA 12" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set.....	480.66	
Note: Includes rubber gasket, and twelve (12) 7/8" diameter bolts with washers and nut.		
23 21 13 23-0760 EA 14" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set.....	727.64	
Note: Includes rubber gasket, and twelve (12) 1" diameter bolts with washers and nut.		
23 21 13 23-0761 EA 16" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set.....	969.38	
Note: Includes rubber gasket, and sixteen (16) 1" diameter bolts with washers and nut.		
23 21 13 23-0762 EA 18" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set.....	2,519.72	
Note: Includes rubber gasket, and sixteen (16) 1-1/8" diameter bolts with washers and nut.		
23 21 13 23-0763 EA 20" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set.....	2,919.24	
Note: Includes rubber gasket, and twenty (20) 1-1/8" diameter bolts with washers and nut.		
23 21 13 23-0764 EA 24" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set.....	3,370.42	
Note: Includes rubber gasket, and twenty (20) 1-1/4" diameter bolts with washers and nut.		
23 21 13 23-0765 150 LB, Rubber Flange Gasket Replacement <small>(23 21 13 23-0393)</small>		
Note: Includes unbolting, removal of old gaskets, new 150 LB rubber gasket and rebolting.		
23 21 13 23-0766 EA 1/2", 150 LB, Rubber Flange Gasket Replacement.....	42.92	
For 300 LB Rating Gasket Set, Add	0.21	
For 150 LB Rating Teflon Gasket Set, Add	4.72	
For 300 LB Rating Teflon Gasket Set, Add	5.43	
For Work In Restricted Working Space, Add	12.69	
23 21 13 23-0767 EA 3/4", 150 LB, Rubber Flange Gasket Replacement.....	45.94	
For 300 LB Rating Gasket Set, Add	0.28	
For 150 LB Rating Teflon Gasket Set, Add	6.26	
For 300 LB Rating Teflon Gasket Set, Add	7.21	
For Work In Restricted Working Space, Add	13.54	
23 21 13 23-0768 EA 1", 150 LB, Rubber Flange Gasket Replacement.....	50.78	
For 300 LB Rating Gasket Set, Add	0.50	
For 150 LB Rating Teflon Gasket Set, Add	10.98	
For 300 LB Rating Teflon Gasket Set, Add	12.64	
For Work In Restricted Working Space, Add	14.81	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0769 EA 1-1/4", 150 LB, Rubber Flange Gasket Replacement	55.22	
For 300 LB Rating Gasket Set, Add	0.57	
For 150 LB Rating Teflon Gasket Set, Add	12.52	
For 300 LB Rating Teflon Gasket Set, Add	14.42	
For Work In Restricted Working Space, Add	16.08	
23 21 13 23-0770 EA 1-1/2", 150 LB, Rubber Flange Gasket Replacement	61.26	
For 300 LB Rating Gasket Set, Add	0.71	
For 150 LB Rating Teflon Gasket Set, Add	15.69	
For 300 LB Rating Teflon Gasket Set, Add	18.07	
For Work In Restricted Working Space, Add	17.77	
23 21 13 23-0771 EA 2", 150 LB, Rubber Flange Gasket Replacement	67.72	
For 300 LB Rating Gasket Set, Add	0.99	
For 150 LB Rating Teflon Gasket Set, Add	21.95	
For 300 LB Rating Teflon Gasket Set, Add	25.28	
For Work In Restricted Working Space, Add	19.46	
23 21 13 23-0772 EA 2-1/2", 150 LB, Rubber Flange Gasket Replacement	80.01	
For 300 LB Rating Gasket Set, Add	1.35	
For 150 LB Rating Teflon Gasket Set, Add	29.76	
For 300 LB Rating Teflon Gasket Set, Add	34.27	
For Work In Restricted Working Space, Add	22.85	
23 21 13 23-0773 EA 3", 150 LB, Rubber Flange Gasket Replacement	84.85	
For 300 LB Rating Gasket Set, Add	1.56	
For 150 LB Rating Teflon Gasket Set, Add	34.48	
For 300 LB Rating Teflon Gasket Set, Add	39.69	
For Work In Restricted Working Space, Add	24.12	
23 21 13 23-0774 EA 4", 150 LB, Rubber Flange Gasket Replacement	113.08	
For 300 LB Rating Gasket Set, Add	2.56	
For 150 LB Rating Teflon Gasket Set, Add	56.43	
For 300 LB Rating Teflon Gasket Set, Add	64.97	
For Work In Restricted Working Space, Add	31.73	
23 21 13 23-0775 EA 5", 150 LB, Rubber Flange Gasket Replacement	130.82	
For 300 LB Rating Gasket Set, Add	2.84	
For 150 LB Rating Teflon Gasket Set, Add	62.69	
For 300 LB Rating Teflon Gasket Set, Add	72.18	
For Work In Restricted Working Space, Add	36.81	
23 21 13 23-0776 EA 6", 150 LB, Rubber Flange Gasket Replacement	150.17	
For 300 LB Rating Gasket Set, Add	3.69	
For 150 LB Rating Teflon Gasket Set, Add	81.47	
For 300 LB Rating Teflon Gasket Set, Add	93.81	
For Work In Restricted Working Space, Add	41.89	
23 21 13 23-0777 EA 8", 150 LB, Rubber Flange Gasket Replacement	184.65	
For 300 LB Rating Gasket Set, Add	5.39	
For 150 LB Rating Teflon Gasket Set, Add	119.04	
For 300 LB Rating Teflon Gasket Set, Add	137.06	
For Work In Restricted Working Space, Add	50.78	
23 21 13 23-0778 EA 10", 150 LB, Rubber Flange Gasket Replacement	202.43	
For 300 LB Rating Gasket Set, Add	7.66	
For 150 LB Rating Teflon Gasket Set, Add	169.21	
For 300 LB Rating Teflon Gasket Set, Add	194.82	
For Work In Restricted Working Space, Add	54.16	
23 21 13 23-0779 EA 12", 150 LB, Rubber Flange Gasket Replacement	232.47	
For 300 LB Rating Gasket Set, Add	9.79	
For 150 LB Rating Teflon Gasket Set, Add	216.13	
For 300 LB Rating Teflon Gasket Set, Add	248.84	
For Work In Restricted Working Space, Add	61.35	
23 21 13 23-0780 EA 14", 150 LB, Rubber Flange Gasket Replacement	245.01	
For 300 LB Rating Gasket Set, Add	11.70	
For 150 LB Rating Teflon Gasket Set, Add	258.49	
For 300 LB Rating Teflon Gasket Set, Add	297.62	
For Work In Restricted Working Space, Add	63.47	
23 21 13 23-0781 EA 16", 150 LB, Rubber Flange Gasket Replacement	319.37	
For 300 LB Rating Gasket Set, Add	13.05	
For 150 LB Rating Teflon Gasket Set, Add	288.25	
For 300 LB Rating Teflon Gasket Set, Add	331.88	
For Work In Restricted Working Space, Add	84.62	
23 21 13 23-0782 EA 18", 150 LB, Rubber Flange Gasket Replacement	347.77	
For 300 LB Rating Gasket Set, Add	13.62	
For 150 LB Rating Teflon Gasket Set, Add	300.77	
For 300 LB Rating Teflon Gasket Set, Add	346.30	
For Work In Restricted Working Space, Add	92.66	
23 21 13 23-0783 EA 20", 150 LB, Rubber Flange Gasket Replacement	418.28	
For 300 LB Rating Gasket Set, Add	14.61	
For 150 LB Rating Teflon Gasket Set, Add	322.65	
For 300 LB Rating Teflon Gasket Set, Add	371.49	
For Work In Restricted Working Space, Add	112.96	
23 21 13 23-0784 Cut And Prepare For Welding Existing In-Place Black Steel Pipe (23 21 13 23-0393)		
Note: For use when connecting pipe to an existing in-place system.		
23 21 13 23-0785 EA 1/2", Cut And Prepare For Welding Existing In Place Black Steel Pipe	30.63	
For Work In Restricted Working Space, Add	9.19	
23 21 13 23-0786 EA 3/4", Cut And Prepare For Welding Existing In Place Black Steel Pipe	33.08	
For Work In Restricted Working Space, Add	9.92	
23 21 13 23-0787 EA 1", Cut And Prepare For Welding Existing In Place Black Steel Pipe	37.21	
For Work In Restricted Working Space, Add	11.16	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0788 EA 1-1/4", Cut And Prepare For Welding Existing In Place Black Steel Pipe	39.05	
<i>For Work In Restricted Working Space, Add</i>	11.72	
23 21 13 23-0789 EA 1-1/2", Cut And Prepare For Welding Existing In Place Black Steel Pipe	41.34	
<i>For Work In Restricted Working Space, Add</i>	12.40	
23 21 13 23-0790 EA 2", Cut And Prepare For Welding Existing In Place Black Steel Pipe	44.40	
<i>For Work In Restricted Working Space, Add</i>	13.32	
23 21 13 23-0791 EA 2-1/2", Cut And Prepare For Welding Existing In Place Black Steel Pipe	47.48	
<i>For Work In Restricted Working Space, Add</i>	14.24	
23 21 13 23-0792 EA 3", Cut And Prepare For Welding Existing In Place Black Steel Pipe	52.06	
<i>For Work In Restricted Working Space, Add</i>	15.62	
23 21 13 23-0793 EA 4", Cut And Prepare For Welding Existing In Place Black Steel Pipe	56.65	
<i>For Work In Restricted Working Space, Add</i>	17.00	
23 21 13 23-0794 EA 6", Cut And Prepare For Welding Existing In Place Black Steel Pipe	61.25	
<i>For Work In Restricted Working Space, Add</i>	18.38	
23 21 13 23-0795 EA 8", Cut And Prepare For Welding Existing In Place Black Steel Pipe	65.84	
<i>For Work In Restricted Working Space, Add</i>	19.75	
23 21 13 23-0796 EA 10", Cut And Prepare For Welding Existing In Place Black Steel Pipe	71.97	
<i>For Work In Restricted Working Space, Add</i>	21.59	
23 21 13 23-0797 EA 12", Cut And Prepare For Welding Existing In Place Black Steel Pipe	78.10	
<i>For Work In Restricted Working Space, Add</i>	23.43	
23 21 13 23-0798 EA 14", Cut And Prepare For Welding Existing In Place Black Steel Pipe	84.22	
<i>For Work In Restricted Working Space, Add</i>	25.27	
23 21 13 23-0799 EA 16", Cut And Prepare For Welding Existing In Place Black Steel Pipe	90.35	
<i>For Work In Restricted Working Space, Add</i>	27.11	
23 21 13 23-0800 EA 18", Cut And Prepare For Welding Existing In Place Black Steel Pipe	94.94	
<i>For Work In Restricted Working Space, Add</i>	28.48	
23 21 13 23-0801 EA 20", Cut And Prepare For Welding Existing In Place Black Steel Pipe	99.54	
<i>For Work In Restricted Working Space, Add</i>	29.86	
23 21 13 23-0802 EA 24", Cut And Prepare For Welding Existing In Place Black Steel Pipe	105.66	
<i>For Work In Restricted Working Space, Add</i>	31.70	
23 21 13 23-0803 Welded Plain End Electric Resistance Black Steel Pipe <small>(23 21 13 23-0393)</small>		
<small>Note: ASTM A-135.</small>		
23 21 13 23-0804 LF 2" Electric Resistance Weld Black Pipe, Plain End Schedule 40 ASTM A-135, Not Including Hangers Or Fittings.....	38.15	15.69
<i>For Work In Restricted Working Space, Add</i>	7.71	
23 21 13 23-0805 LF 2-1/2" Electric Resistance Weld Black Pipe, Plain End Schedule 40 ASTM A-135, Not Including Hangers Or Fittings.....	44.82	17.12
<i>For Work In Restricted Working Space, Add</i>	7.71	
23 21 13 23-0806 LF 3" Electric Resistance Weld Black Pipe, Plain End Schedule 40 ASTM A-135, Not Including Hangers Or Fittings.....	48.76	16.83
<i>For Work In Restricted Working Space, Add</i>	7.55	
23 21 13 23-0807 LF 4" Electric Resistance Weld Black Pipe, Plain End Schedule 40 ASTM A-135, Not Including Hangers Or Fittings.....	60.56	21.40
<i>For Work In Restricted Working Space, Add</i>	9.62	
23 21 13 23-0808 LF 6" Electric Resistance Weld Black Pipe, Plain End Schedule 40 ASTM A-135, Not Including Hangers Or Fittings.....	102.65	31.67
<i>For Work In Restricted Working Space, Add</i>	14.24	
23 21 13 23-0809 LF 8.322" Electric Resistance Weld Black Pipe, Plain End Schedule 40 ASTM A-135, Not Including Hangers Or Fittings.....	129.50	34.38
<i>For Work In Restricted Working Space, Add</i>	15.49	
23 21 13 23-0810 LF 10.365" Electric Resistance Weld Black Pipe, Plain End Schedule 40 ASTM A-135, Not Including Hangers Or Fittings.....	179.91	42.82
<i>For Work In Restricted Working Space, Add</i>	19.27	
23 21 13 23-0811 LF 12.375" Electric Resistance Weld Black Pipe, Plain End Schedule 40 ASTM A-135, Not Including Hangers Or Fittings.....	218.90	51.63
<i>For Work In Restricted Working Space, Add</i>	23.22	
23 21 13 23-0812 LF 14.375" Electric Resistance Weld Black Pipe, Plain End Schedule 40 ASTM A-135, Not Including Hangers Or Fittings.....	278.02	67.00
<i>For Work In Restricted Working Space, Add</i>	30.14	
23 21 13 23-0813 Flanged Steel Fittings <small>(23 21 13 23)</small>		
<small>See CSI section 23 21 13 23-0394 for steel pipe, 23 21 13 23-0637 for welded neck flange ends.</small>		
23 21 13 23-0814 Flanged Steel Fittings, Standard Weight <small>(23 21 13 23-0813)</small>		
<small>Note: Flanged equipment, flanged fittings and flanged valves exclude bolt and gasket sets. See CSI section 23 21 13 23-0713 for Class 150 steel bolt and gasket set.</small>		
23 21 13 23-0815 Flanged Steel, 90 Degree Elbows <small>(23 21 13 23-0814)</small>		
23 21 13 23-0816 EA 2" Standard Weight, Flanged Steel, 90 Degree Elbow	574.18	65.83
<i>For Galvanized Fittings, Add</i>	380.39	
<i>For Extra Heavy Weight Fittings, Add</i>	570.59	
23 21 13 23-0817 EA 2-1/2" Standard Weight, Flanged Steel, 90 Degree Elbow	640.41	73.31
<i>For Galvanized Fittings, Add</i>	424.35	
<i>For Extra Heavy Weight Fittings, Add</i>	636.53	
23 21 13 23-0818 EA 3" Standard Weight, Flanged Steel, 90 Degree Elbow	637.35	80.92
<i>For Galvanized Fittings, Add</i>	412.89	
<i>For Extra Heavy Weight Fittings, Add</i>	619.33	
23 21 13 23-0819 EA 4" Standard Weight, Flanged Steel, 90 Degree Elbow	807.62	94.03
<i>For Galvanized Fittings, Add</i>	533.31	
<i>For Extra Heavy Weight Fittings, Add</i>	799.97	
23 21 13 23-0820 EA 5" Standard Weight, Flanged Steel, 90 Degree Elbow	1,125.61	105.31
<i>For Galvanized Fittings, Add</i>	774.16	
<i>For Extra Heavy Weight Fittings, Add</i>	1,161.24	
23 21 13 23-0821 EA 6" Standard Weight, Flanged Steel, 90 Degree Elbow	1,191.60	122.23
<i>For Galvanized Fittings, Add</i>	806.66	
<i>For Extra Heavy Weight Fittings, Add</i>	1,209.98	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0822 EA 8" Standard Weight, Flanged Steel, 90 Degree Elbow	1,509.28	135.34
For Galvanized Fittings, Add	1,045.01	
For Extra Heavy Weight Fittings, Add	1,567.51	
23 21 13 23-0823 Flanged Steel, Reducing 90 Degree Elbows (23 21 13 23-0814)		
23 21 13 23-0824 EA 2-1/2" x 2" Standard Weight, Flanged Steel, Reducing 90 Degree Elbow	1,064.86	69.65
For Galvanized Fittings, Add	768.42	
For Extra Heavy Weight Fittings, Add	1,152.64	
23 21 13 23-0825 EA 3" x 2-1/2" Standard Weight, Flanged Steel, Reducing 90 Degree Elbow	1,109.58	77.12
For Galvanized Fittings, Add	795.18	
For Extra Heavy Weight Fittings, Add	1,192.78	
23 21 13 23-0826 EA 4" x 3" Standard Weight, Flanged Steel, Reducing 90 Degree Elbow	1,380.76	87.40
For Galvanized Fittings, Add	999.72	
For Extra Heavy Weight Fittings, Add	1,499.58	
23 21 13 23-0827 EA 5" x 3" Standard Weight, Flanged Steel, Reducing 90 Degree Elbow	1,707.00	93.05
For Galvanized Fittings, Add	1,253.95	
For Extra Heavy Weight Fittings, Add	1,880.93	
23 21 13 23-0828 EA 6" x 4" Standard Weight, Flanged Steel, Reducing 90 Degree Elbow	1,944.61	108.13
For Galvanized Fittings, Add	1,425.98	
For Extra Heavy Weight Fittings, Add	2,138.98	
23 21 13 23-0829 EA 8" x 6" Standard Weight, Flanged Steel, Reducing 90 Degree Elbow	2,709.16	128.85
For Galvanized Fittings, Add	2,012.82	
For Extra Heavy Weight Fittings, Add	3,019.22	
23 21 13 23-0830 Flanged Steel, 45 Degree Elbows (23 21 13 23-0814)		
23 21 13 23-0831 EA 2" Standard Weight, Flanged Steel, 45 Degree Elbow	746.21	65.83
For Galvanized Fittings, Add	518.02	
For Extra Heavy Weight Fittings, Add	777.02	
23 21 13 23-0832 EA 2-1/2" Standard Weight, Flanged Steel, 45 Degree Elbow	779.00	73.31
For Galvanized Fittings, Add	535.22	
For Extra Heavy Weight Fittings, Add	802.84	
23 21 13 23-0833 EA 3" Standard Weight, Flanged Steel, 45 Degree Elbow	809.38	80.92
For Galvanized Fittings, Add	550.51	
For Extra Heavy Weight Fittings, Add	825.77	
23 21 13 23-0834 EA 4" Standard Weight, Flanged Steel, 45 Degree Elbow	1,008.33	94.03
For Galvanized Fittings, Add	693.88	
For Extra Heavy Weight Fittings, Add	1,040.82	
23 21 13 23-0835 EA 5" Standard Weight, Flanged Steel, 45 Degree Elbow	1,450.57	105.31
For Galvanized Fittings, Add	1,034.13	
For Extra Heavy Weight Fittings, Add	1,551.19	
23 21 13 23-0836 EA 6" Standard Weight, Flanged Steel, 45 Degree Elbow	1,416.20	122.23
For Galvanized Fittings, Add	986.34	
For Extra Heavy Weight Fittings, Add	1,479.50	
23 21 13 23-0837 EA 8" Standard Weight, Flanged Steel, 45 Degree Elbow	1,669.23	135.34
For Galvanized Fittings, Add	1,172.97	
For Extra Heavy Weight Fittings, Add	1,759.45	
23 21 13 23-0838 Flanged Steel, Tees (23 21 13 23-0814)		
23 21 13 23-0839 EA 2" Standard Weight, Flanged Steel, Tee.....	738.21	98.69
For Galvanized Fittings, Add	472.14	
For Extra Heavy Weight Fittings, Add	708.22	
23 21 13 23-0840 EA 2-1/2" Standard Weight, Flanged Steel, Tee.....	951.05	109.97
For Galvanized Fittings, Add	628.89	
For Extra Heavy Weight Fittings, Add	943.33	
23 21 13 23-0841 EA 3" Standard Weight, Flanged Steel, Tee.....	870.03	121.24
For Galvanized Fittings, Add	550.53	
For Extra Heavy Weight Fittings, Add	825.79	
23 21 13 23-0842 EA 4" Standard Weight, Flanged Steel, Tee.....	1,238.87	141.12
For Galvanized Fittings, Add	821.93	
For Extra Heavy Weight Fittings, Add	1,232.89	
23 21 13 23-0843 EA 5" Standard Weight, Flanged Steel, Tee.....	1,833.83	158.04
For Galvanized Fittings, Add	1,277.59	
For Extra Heavy Weight Fittings, Add	1,916.39	
23 21 13 23-0844 EA 6" Standard Weight, Flanged Steel, Tee.....	2,236.90	183.42
For Galvanized Fittings, Add	1,569.60	
For Extra Heavy Weight Fittings, Add	2,354.40	
23 21 13 23-0845 EA 8" Standard Weight, Flanged Steel, Tee.....	2,477.94	212.46
For Galvanized Fittings, Add	1,727.46	
For Extra Heavy Weight Fittings, Add	2,591.18	
23 21 13 23-0846 Flanged Steel, Reducing Tees (23 21 13 23-0814)		
23 21 13 23-0847 EA 2-1/2" Standard Weight, Flanged Steel, Reducing Tee	1,160.45	106.30
For Galvanized Fittings, Add	800.92	
For Extra Heavy Weight Fittings, Add	1,201.38	
23 21 13 23-0848 EA 3" Standard Weight, Flanged Steel, Reducing Tee.....	1,339.86	117.58
For Galvanized Fittings, Add	930.90	
For Extra Heavy Weight Fittings, Add	1,396.36	
23 21 13 23-0849 EA 4" Standard Weight, Flanged Steel, Reducing Tee.....	2,296.94	134.50
For Galvanized Fittings, Add	1,676.27	
For Extra Heavy Weight Fittings, Add	2,514.41	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0850 EA 5" Standard Weight, Flanged Steel, Reducing Tee <i>For Galvanized Fittings, Add</i> <i>For Extra Heavy Weight Fittings, Add</i>	2,483.68 1,804.23 2,706.35	152.40
23 21 13 23-0851 EA 6" Standard Weight, Flanged Steel, Reducing Tee <i>For Galvanized Fittings, Add</i> <i>For Extra Heavy Weight Fittings, Add</i>	3,119.99 2,286.22 3,429.32	174.96
23 21 13 23-0852 EA 8" Standard Weight, Flanged Steel, Reducing Tee <i>For Galvanized Fittings, Add</i> <i>For Extra Heavy Weight Fittings, Add</i>	3,893.06 2,878.74 4,318.10	196.53
23 21 13 23-0853 Flanged Steel, Concentric Reducers (23 21 13 23-0814)		
23 21 13 23-0854 EA 3" x 2-1/2" Standard Weight, Flanged Steel, Concentric Reducer <i>For Galvanized Fittings, Add</i> <i>For Extra Heavy Weight Fittings, Add</i>	1,095.25 783.72 1,175.58	77.12
23 21 13 23-0855 EA 4" x 3" Standard Weight, Flanged Steel, Concentric Reducer <i>For Galvanized Fittings, Add</i> <i>For Extra Heavy Weight Fittings, Add</i>	1,244.56 890.76 1,336.14	87.40
23 21 13 23-0856 EA 5" x 4" Standard Weight, Flanged Steel, Concentric Reducer <i>For Galvanized Fittings, Add</i> <i>For Extra Heavy Weight Fittings, Add</i>	1,843.52 1,355.26 2,032.90	99.67
23 21 13 23-0857 EA 6" x 4" Standard Weight, Flanged Steel, Concentric Reducer <i>For Galvanized Fittings, Add</i> <i>For Extra Heavy Weight Fittings, Add</i>	2,033.02 1,496.71 2,245.07	108.13
23 21 13 23-0858 EA 8" x 6" Standard Weight, Flanged Steel, Concentric Reducer <i>For Galvanized Fittings, Add</i> <i>For Extra Heavy Weight Fittings, Add</i>	2,381.82 1,750.94 2,626.42	128.85
23 21 13 23-0859 Flanged Steel, Eccentric Reducers (23 21 13 23-0814)		
23 21 13 23-0860 EA 4" x 3" Standard Weight, Flanged Steel, Eccentric Reducer <i>For Galvanized Fittings, Add</i> <i>For Extra Heavy Weight Fittings, Add</i>	1,184.35 842.59 1,263.89	87.40
23 21 13 23-0861 EA 5" x 4" Standard Weight, Flanged Steel, Eccentric Reducer <i>For Galvanized Fittings, Add</i> <i>For Extra Heavy Weight Fittings, Add</i>	1,607.92 1,166.78 1,750.18	99.67
23 21 13 23-0862 Plain End Couplings And Fittings (23 21 13 23)		
Note: For use on standard weight steel pipe (Schedule 40), but may be used on lightwall steel or other metallic pipe such as aluminum or stainless steel.		
23 21 13 23-0863 Plain End Piping System Couplings (23 21 13 23-0862)		
23 21 13 23-0864 Plainlock Plain End Piping System Couplings (23 21 13 23-0863)		
Note: Ductile iron body with gasket, bolts and nuts.		
23 21 13 23-0865 EA 1" Plainlock Plain End Piping System Coupling <i>For Galvanized Fittings, Add</i>	175.31 32.52	8.46
23 21 13 23-0866 EA 1-1/2" Plainlock Plain End Piping System Coupling <i>For Galvanized Fittings, Add</i>	180.23 32.52	11.70
23 21 13 23-0867 EA 2" Plainlock Plain End Piping System Coupling <i>For Galvanized Fittings, Add</i>	185.95 32.52	15.51
23 21 13 23-0868 EA 2-1/2" Plainlock Plain End Piping System Coupling <i>For Galvanized Fittings, Add</i>	190.82 32.52	18.75
23 21 13 23-0869 EA 3" Plainlock Plain End Piping System Coupling <i>For Galvanized Fittings, Add</i>	225.75 38.38	22.56
23 21 13 23-0870 EA 4" Plainlock Plain End Piping System Coupling <i>For Galvanized Fittings, Add</i>	311.01 53.18	30.03
23 21 13 23-0871 EA 6" Plainlock Plain End Piping System Coupling <i>For Galvanized Fittings, Add</i>	522.31 89.80	48.92
23 21 13 23-0872 Roust-A-Bout Plain End Piping System Couplings (23 21 13 23-0863)		
Note: Ductile iron body with gasket, bolts and nuts.		
23 21 13 23-0873 EA 1-1/2" Roust-A-Bout Plain End Piping System Coupling <i>For Galvanized Fittings, Add</i>	211.82 48.55	11.70
23 21 13 23-0874 EA 2" Roust-A-Bout Plain End Piping System Coupling <i>For Galvanized Fittings, Add</i>	217.54 48.55	15.51
23 21 13 23-0875 EA 2-1/2" Roust-A-Bout Plain End Piping System Coupling <i>For Galvanized Fittings, Add</i>	222.42 48.55	18.89
23 21 13 23-0876 EA 3" Roust-A-Bout Plain End Piping System Coupling <i>For Galvanized Fittings, Add</i>	321.49 71.92	22.56
23 21 13 23-0877 EA 3-1/2" Roust-A-Bout Plain End Piping System Coupling <i>For Galvanized Fittings, Add</i>	372.42 83.23	26.37
23 21 13 23-0878 EA 4" Roust-A-Bout Plain End Piping System Coupling <i>For Galvanized Fittings, Add</i>	378.00 83.23	30.03
23 21 13 23-0879 EA 5" Roust-A-Bout Plain End Piping System Coupling <i>For Galvanized Fittings, Add</i>	532.05 118.90	37.64
23 21 13 23-0880 EA 6" Roust-A-Bout Plain End Piping System Coupling <i>For Galvanized Fittings, Add</i>	654.22 145.22	48.92
23 21 13 23-0881 EA 8" Roust-A-Bout Plain End Piping System Coupling <i>For Galvanized Fittings, Add</i>	1,117.51 257.51	58.36
23 21 13 23-0882 EA 10" Roust-A-Bout Plain End Piping System Coupling <i>For Galvanized Fittings, Add</i>	1,443.70 335.01	69.08

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0883 EA 12" Roust-A-Bout Plain End Piping System Coupling..... <i>For Galvanized Fittings, Add</i>	1,804.15 420.37	81.77
23 21 13 23-0884 EA 14" Roust-A-Bout Plain End Piping System Coupling..... <i>For Galvanized Fittings, Add</i>	2,523.28 596.93	90.37
23 21 13 23-0885 EA 16" Roust-A-Bout Plain End Piping System Coupling..... <i>For Galvanized Fittings, Add</i>	3,423.03 817.45	102.21
23 21 13 23-0886 Plain End Piping System Fittings (23 21 13 23-0886) Note: Cast ductile iron bodies.		
23 21 13 23-0887 Plain End Piping System, 90 Degree Elbows (23 21 13 23-0886)		
23 21 13 23-0888 EA 1" Plain End Piping System, 90 Degree Elbow <i>For Galvanized Fittings, Add</i>	176.55 30.70	15.37
23 21 13 23-0889 EA 1-1/2" Plain End Piping System, 90 Degree Elbow..... <i>For Galvanized Fittings, Add</i>	188.40 30.70	23.26
23 21 13 23-0890 EA 2" Plain End Piping System, 90 Degree Elbow <i>For Galvanized Fittings, Add</i>	199.59 30.70	30.73
23 21 13 23-0891 EA 2-1/2" Plain End Piping System, 90 Degree Elbow..... <i>For Galvanized Fittings, Add</i>	209.63 30.70	37.50
23 21 13 23-0892 EA 3" Plain End Piping System, 90 Degree Elbow <i>For Galvanized Fittings, Add</i>	252.42 36.88	45.39
23 21 13 23-0893 EA 4" Plain End Piping System, 90 Degree Elbow <i>For Galvanized Fittings, Add</i>	358.58 53.78	59.77
23 21 13 23-0894 EA 5" Plain End Piping System, 90 Degree Elbow <i>For Galvanized Fittings, Add</i>	1,042.97 186.15	74.87
23 21 13 23-0895 EA 6" Plain End Piping System, 90 Degree Elbow <i>For Galvanized Fittings, Add</i>	886.94 148.02	97.98
23 21 13 23-0896 EA 8" Plain End Piping System, 90 Degree Elbow <i>For Galvanized Fittings, Add</i>	1,737.60 312.62	116.30
23 21 13 23-0897 EA 10" Plain End Piping System, 90 Degree Elbow <i>For Galvanized Fittings, Add</i>	2,168.34 392.92	135.90
23 21 13 23-0898 EA 12" Plain End Piping System, 90 Degree Elbow <i>For Galvanized Fittings, Add</i>	2,746.15 500.28	163.26
23 21 13 23-0899 Plain End Piping System, 45 Degree Elbows (23 21 13 23-0886)		
23 21 13 23-0900 EA 1" Plain End Piping System, 45 Degree Elbow <i>For Galvanized Fittings, Add</i>	176.55 30.70	15.37
23 21 13 23-0901 EA 1-1/2" Plain End Piping System, 45 Degree Elbow..... <i>For Galvanized Fittings, Add</i>	188.40 30.70	23.26
23 21 13 23-0902 EA 2" Plain End Piping System, 45 Degree Elbow <i>For Galvanized Fittings, Add</i>	199.59 30.70	30.73
23 21 13 23-0903 EA 2-1/2" Plain End Piping System, 45 Degree Elbow..... <i>For Galvanized Fittings, Add</i>	209.63 30.70	37.50
23 21 13 23-0904 EA 3" Plain End Piping System, 45 Degree Elbow <i>For Galvanized Fittings, Add</i>	252.42 36.88	45.39
23 21 13 23-0905 EA 4" Plain End Piping System, 45 Degree Elbow <i>For Galvanized Fittings, Add</i>	358.58 53.78	59.77
23 21 13 23-0906 EA 5" Plain End Piping System, 45 Degree Elbow <i>For Galvanized Fittings, Add</i>	1,042.97 186.15	74.87
23 21 13 23-0907 EA 6" Plain End Piping System, 45 Degree Elbow <i>For Galvanized Fittings, Add</i>	889.78 148.59	97.98
23 21 13 23-0908 EA 8" Plain End Piping System, 45 Degree Elbow <i>For Galvanized Fittings, Add</i>	1,033.36 171.78	116.30
23 21 13 23-0909 EA 10" Plain End Piping System, 45 Degree Elbow <i>For Galvanized Fittings, Add</i>	1,402.35 239.72	135.90
23 21 13 23-0910 EA 12" Plain End Piping System, 45 Degree Elbow <i>For Galvanized Fittings, Add</i>	1,793.23 309.69	163.26
23 21 13 23-0911 Plain End Piping System, Tees (23 21 13 23-0886)		
23 21 13 23-0912 EA 1" Plain End Piping System, Tee <i>For Galvanized Fittings, Add</i>	241.61 41.34	23.26
23 21 13 23-0913 EA 1-1/2" Plain End Piping System, Tee <i>For Galvanized Fittings, Add</i>	259.09 41.34	34.96
23 21 13 23-0914 EA 2" Plain End Piping System, Tee <i>For Galvanized Fittings, Add</i>	274.50 41.34	45.25
23 21 13 23-0915 EA 2-1/2" Plain End Piping System, Tee <i>For Galvanized Fittings, Add</i>	289.84 41.34	55.41
23 21 13 23-0916 EA 3" Plain End Piping System, Tee <i>For Galvanized Fittings, Add</i>	399.65 59.50	68.10
23 21 13 23-0917 EA 4" Plain End Piping System, Tee <i>For Galvanized Fittings, Add</i>	545.72 82.74	88.11
23 21 13 23-0918 EA 5" Plain End Piping System, Tee <i>For Galvanized Fittings, Add</i>	1,081.59 181.76	115.18
23 21 13 23-0919 EA 6" Plain End Piping System, Tee <i>For Galvanized Fittings, Add</i>	1,337.89 224.33	144.22
23 21 13 23-0920 EA 8" Plain End Piping System, Tee <i>For Galvanized Fittings, Add</i>	1,817.19 310.83	175.38
23 21 13 23-0921 EA 10" Plain End Piping System, Tee <i>For Galvanized Fittings, Add</i>	2,679.83 474.67	204.42
23 21 13 23-0922 EA 12" Plain End Piping System, Tee <i>For Galvanized Fittings, Add</i>	3,577.75 642.12	244.89



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0923 Plain End Piping System, Reducing Tees (23 21 13 23-0886)						
23 21 13 23-0924	EA			1-1/2" Plain End Piping System, Reducing Tee.....	464.78	37.50
				<i>For Galvanized Fittings, Add</i>	81.72	
23 21 13 23-0925	EA			2" Plain End Piping System, Reducing Tee.....	476.38	45.25
				<i>For Galvanized Fittings, Add</i>	81.72	
23 21 13 23-0926	EA			2-1/2" Plain End Piping System, Reducing Tee.....	491.72	55.41
				<i>For Galvanized Fittings, Add</i>	81.72	
23 21 13 23-0927	EA			3" Plain End Piping System, Reducing Tee.....	510.76	68.10
				<i>For Galvanized Fittings, Add</i>	81.72	
23 21 13 23-0928	EA			4" Plain End Piping System, Reducing Tee.....	735.22	88.11
				<i>For Galvanized Fittings, Add</i>	120.64	
23 21 13 23-0929	EA			6" Plain End Piping System, Reducing Tee.....	1,240.57	144.22
				<i>For Galvanized Fittings, Add</i>	204.87	
23 21 13 23-0930	EA			8" Plain End Piping System, Reducing Tee.....	1,612.03	175.38
				<i>For Galvanized Fittings, Add</i>	269.80	
23 21 13 23-0931	EA			10" Plain End Piping System, Reducing Tee.....	2,386.18	204.42
				<i>For Galvanized Fittings, Add</i>	415.94	
23 21 13 23-0932	EA			12" Plain End Piping System, Reducing Tee.....	3,493.72	244.89
				<i>For Galvanized Fittings, Add</i>	625.32	
23 21 13 23-0933 Plain End Piping System, Wyes (23 21 13 23-0886)						
23 21 13 23-0934	EA			2" Plain End Piping System, Wye.....	673.28	45.25
				<i>For Galvanized Fittings, Add</i>	121.10	
23 21 13 23-0935	EA			2-1/2" Plain End Piping System, Wye.....	688.62	55.41
				<i>For Galvanized Fittings, Add</i>	121.10	
23 21 13 23-0936	EA			3" Plain End Piping System, Wye.....	782.78	68.10
				<i>For Galvanized Fittings, Add</i>	136.12	
23 21 13 23-0937	EA			4" Plain End Piping System, Wye.....	1,142.26	88.11
				<i>For Galvanized Fittings, Add</i>	202.05	
23 21 13 23-0938	EA			5" Plain End Piping System, Wye.....	1,402.13	115.18
				<i>For Galvanized Fittings, Add</i>	245.87	
23 21 13 23-0939	EA			6" Plain End Piping System, Wye.....	1,909.10	144.22
				<i>For Galvanized Fittings, Add</i>	338.57	
23 21 13 23-0940	EA			8" Plain End Piping System, Wye.....	2,455.41	175.38
				<i>For Galvanized Fittings, Add</i>	438.48	
23 21 13 23-0941	EA			10" Plain End Piping System, Wye.....	3,539.42	204.42
				<i>For Galvanized Fittings, Add</i>	646.59	
23 21 13 23-0942	EA			12" Plain End Piping System, Wye.....	5,351.00	244.89
				<i>For Galvanized Fittings, Add</i>	996.77	
23 21 13 23-0943 Plain End Piping System, Laterals (23 21 13 23-0886)						
23 21 13 23-0944	EA			2" Plain End Piping System, Lateral.....	716.10	45.25
				<i>For Galvanized Fittings, Add</i>	129.66	
23 21 13 23-0945	EA			2-1/2" Plain End Piping System, Lateral.....	731.44	55.41
				<i>For Galvanized Fittings, Add</i>	129.66	
23 21 13 23-0946	EA			3" Plain End Piping System, Lateral.....	825.32	68.10
				<i>For Galvanized Fittings, Add</i>	144.63	
23 21 13 23-0947	EA			4" Plain End Piping System, Lateral.....	1,223.50	88.11
				<i>For Galvanized Fittings, Add</i>	218.30	
23 21 13 23-0948	EA			5" Plain End Piping System, Lateral.....	1,595.61	115.18
				<i>For Galvanized Fittings, Add</i>	284.57	
23 21 13 23-0949	EA			6" Plain End Piping System, Lateral.....	2,033.59	144.22
				<i>For Galvanized Fittings, Add</i>	363.47	
23 21 13 23-0950	EA			8" Plain End Piping System, Lateral.....	2,912.67	175.38
				<i>For Galvanized Fittings, Add</i>	529.93	
23 21 13 23-0951	EA			10" Plain End Piping System, Lateral.....	4,046.76	204.42
				<i>For Galvanized Fittings, Add</i>	748.06	
23 21 13 23-0952	EA			12" Plain End Piping System, Lateral.....	5,426.40	244.89
				<i>For Galvanized Fittings, Add</i>	1,011.85	
23 21 13 23-0953 Plain End Piping System, Crosses (23 21 13 23-0886)						
23 21 13 23-0954	EA			2" Plain End Piping System, Cross.....	805.52	67.82
				<i>For Galvanized Fittings, Add</i>	87.99	
23 21 13 23-0955	EA			2-1/2" Plain End Piping System, Cross.....	828.49	83.04
				<i>For Galvanized Fittings, Add</i>	87.99	
23 21 13 23-0956	EA			3" Plain End Piping System, Cross.....	969.73	102.21
				<i>For Galvanized Fittings, Add</i>	102.06	
23 21 13 23-0957	EA			4" Plain End Piping System, Cross.....	1,319.67	132.10
				<i>For Galvanized Fittings, Add</i>	140.21	
23 21 13 23-0958	EA			5" Plain End Piping System, Cross.....	1,852.30	172.84
				<i>For Galvanized Fittings, Add</i>	199.14	
23 21 13 23-0959	EA			6" Plain End Piping System, Cross.....	2,426.95	215.70
				<i>For Galvanized Fittings, Add</i>	262.95	
23 21 13 23-0960	EA			8" Plain End Piping System, Cross.....	3,090.33	261.24
				<i>For Galvanized Fittings, Add</i>	337.34	
23 21 13 23-0961	EA			10" Plain End Piping System, Cross.....	4,395.34	305.36
				<i>For Galvanized Fittings, Add</i>	492.20	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0962 EA 12" Plain End Piping System, Cross <i>For Galvanized Fittings, Add</i>	6,228.41 709.71	367.40
23 21 13 23-0963 Plain End Piping System, Adapter Nipples (23 21 13 23-0886) Note: Plain to threaded, plain to beveled or plain to grooved.		
23 21 13 23-0964 EA 1" Plain End Piping System, Adapter Nipple <i>For Galvanized Fittings, Add</i>	77.30 16.15	8.46
23 21 13 23-0965 EA 1-1/2" Plain End Piping System, Adapter Nipple <i>For Galvanized Fittings, Add</i>	84.01 16.60	11.70
23 21 13 23-0966 EA 2" Plain End Piping System, Adapter Nipple <i>For Galvanized Fittings, Add</i>	89.58 16.60	15.51
23 21 13 23-0967 EA 2-1/2" Plain End Piping System, Adapter Nipple <i>For Galvanized Fittings, Add</i>	105.98 19.45	18.75
23 21 13 23-0968 EA 3" Plain End Piping System, Adapter Nipple <i>For Galvanized Fittings, Add</i>	129.95 24.03	22.56
23 21 13 23-0969 EA 4" Plain End Piping System, Adapter Nipple <i>For Galvanized Fittings, Add</i>	205.83 40.18	30.03
23 21 13 23-0970 EA 6" Plain End Piping System, Adapter Nipple <i>For Galvanized Fittings, Add</i>	491.04 108.66	37.64
23 21 13 23-0971 Plain End Piping System, Reducing (Swaged) Nipples (23 21 13 23-0886)		
23 21 13 23-0972 EA 1-1/2" x 1" Plain End Piping System, Reducing (Swaged) Nipple <i>For Galvanized Fittings, Add</i>	247.46 54.29	20.16
23 21 13 23-0973 EA 2" x 1" Plain End Piping System, Reducing (Swaged) Nipple <i>For Galvanized Fittings, Add</i>	253.12 54.29	23.96
23 21 13 23-0974 EA 2" x 1-1/2" Plain End Piping System, Reducing (Swaged) Nipple <i>For Galvanized Fittings, Add</i>	258.81 54.29	27.77
23 21 13 23-0975 EA 2-1/2" x 1" Plain End Piping System, Reducing (Swaged) Nipple <i>For Galvanized Fittings, Add</i>	257.43 54.29	26.93
23 21 13 23-0976 EA 2-1/2" x 1-1/2" Plain End Piping System, Reducing (Swaged) Nipple <i>For Galvanized Fittings, Add</i>	262.98 54.29	30.59
23 21 13 23-0977 EA 2-1/2" x 2" Plain End Piping System, Reducing (Swaged) Nipple <i>For Galvanized Fittings, Add</i>	268.61 54.29	34.26
23 21 13 23-0978 EA 3" x 1" Plain End Piping System, Reducing (Swaged) Nipple <i>For Galvanized Fittings, Add</i>	310.90 66.12	31.01
23 21 13 23-0979 EA 3" x 1-1/2" Plain End Piping System, Reducing (Swaged) Nipple <i>For Galvanized Fittings, Add</i>	315.92 66.12	34.26
23 21 13 23-0980 EA 3" x 2" Plain End Piping System, Reducing (Swaged) Nipple <i>For Galvanized Fittings, Add</i>	260.53 50.85	38.06
23 21 13 23-0981 EA 3" x 2-1/2" Plain End Piping System, Reducing (Swaged) Nipple <i>For Galvanized Fittings, Add</i>	271.44 50.85	45.39
23 21 13 23-0982 EA 3-1/2" x 3" Plain End Piping System, Reducing (Swaged) Nipple <i>For Galvanized Fittings, Add</i>	316.50 60.81	48.92
23 21 13 23-0983 EA 4" x 1" Plain End Piping System, Reducing (Swaged) Nipple <i>For Galvanized Fittings, Add</i>	429.67 92.97	38.48
23 21 13 23-0984 EA 4" x 1-1/2" Plain End Piping System, Reducing (Swaged) Nipple <i>For Galvanized Fittings, Add</i>	434.61 92.97	41.87
23 21 13 23-0985 EA 4" x 2" Plain End Piping System, Reducing (Swaged) Nipple <i>For Galvanized Fittings, Add</i>	350.05 70.40	45.67
23 21 13 23-0986 EA 4" x 2-1/2" Plain End Piping System, Reducing (Swaged) Nipple <i>For Galvanized Fittings, Add</i>	354.89 70.40	48.92
23 21 13 23-0987 EA 4" x 3" Plain End Piping System, Reducing (Swaged) Nipple <i>For Galvanized Fittings, Add</i>	360.64 70.40	52.72
23 21 13 23-0988 EA 4" x 3-1/2" Plain End Piping System, Reducing (Swaged) Nipple <i>For Galvanized Fittings, Add</i>	366.13 70.40	56.39
23 21 13 23-0989 EA 5" x 2" Plain End Piping System, Reducing (Swaged) Nipple <i>For Galvanized Fittings, Add</i>	1,115.32 258.90	53.15
23 21 13 23-0990 EA 5" x 3" Plain End Piping System, Reducing (Swaged) Nipple <i>For Galvanized Fittings, Add</i>	889.46 199.83	60.05
23 21 13 23-0991 EA 5" x 4" Plain End Piping System, Reducing (Swaged) Nipple <i>For Galvanized Fittings, Add</i>	759.34 164.44	67.82
23 21 13 23-0992 EA 6" x 1" Plain End Piping System, Reducing (Swaged) Nipple <i>For Galvanized Fittings, Add</i>	2,059.19 493.31	57.38
23 21 13 23-0993 EA 6" x 1-1/2" Plain End Piping System, Reducing (Swaged) Nipple <i>For Galvanized Fittings, Add</i>	2,064.05 493.31	60.63
23 21 13 23-0994 EA 6" x 2" Plain End Piping System, Reducing (Swaged) Nipple <i>For Galvanized Fittings, Add</i>	1,556.03 364.87	64.43
23 21 13 23-0995 EA 6" x 2-1/2" Plain End Piping System, Reducing (Swaged) Nipple <i>For Galvanized Fittings, Add</i>	1,561.03 364.87	67.82
23 21 13 23-0996 EA 6" x 3" Plain End Piping System, Reducing (Swaged) Nipple <i>For Galvanized Fittings, Add</i>	1,052.97 236.46	71.48
23 21 13 23-0997 EA 6" x 3-1/2" Plain End Piping System, Reducing (Swaged) Nipple <i>For Galvanized Fittings, Add</i>	1,058.09 236.46	74.87
23 21 13 23-0998 EA 6" x 4" Plain End Piping System, Reducing (Swaged) Nipple <i>For Galvanized Fittings, Add</i>	835.61 179.33	78.95
23 21 13 23-0999 EA 6" x 5" Plain End Piping System, Reducing (Swaged) Nipple <i>For Galvanized Fittings, Add</i>	952.04 205.62	86.42
23 21 13 23-1000 EA 8" x 3" Plain End Piping System, Reducing (Swaged) Nipple <i>For Galvanized Fittings, Add</i>	1,261.81 285.17	80.78
23 21 13 23-1001 EA 8" x 4" Plain End Piping System, Reducing (Swaged) Nipple <i>For Galvanized Fittings, Add</i>	1,273.19 285.17	88.39



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-1002	EA	8" x 5" Plain End Piping System, Reducing (Swaged) Nipple..... <i>For Galvanized Fittings, Add</i>	1,441.54 324.42	96.01
23 21	13 23-1003	EA	8" x 6" Plain End Piping System, Reducing (Swaged) Nipple..... <i>For Galvanized Fittings, Add</i>	1,615.54 363.65	107.28
23 21 13 23-1004 Plain End Piping System, Bull Plugs (23 21 13 23-0886)					
23 21	13 23-1005	EA	1" Plain End Piping System, Bull Plug <i>For Galvanized Fittings, Add</i>	346.46 100.13	8.46
23 21	13 23-1006	EA	1-1/2" Plain End Piping System, Bull Plug <i>For Galvanized Fittings, Add</i>	351.39 100.13	11.70
23 21	13 23-1007	EA	2" Plain End Piping System, Bull Plug <i>For Galvanized Fittings, Add</i>	356.96 100.13	15.51
23 21	13 23-1008	EA	2-1/2" Plain End Piping System, Bull Plug <i>For Galvanized Fittings, Add</i>	361.97 100.13	18.75
23 21	13 23-1009	EA	3" Plain End Piping System, Bull Plug <i>For Galvanized Fittings, Add</i>	523.10 146.78	22.56
23 21	13 23-1010	EA	4" Plain End Piping System, Bull Plug <i>For Galvanized Fittings, Add</i>	677.07 189.59	30.03
23 21	13 23-1011	EA	5" Plain End Piping System, Bull Plug <i>For Galvanized Fittings, Add</i>	1,173.20 335.05	37.64
23 21	13 23-1012	EA	6" Plain End Piping System, Bull Plug <i>For Galvanized Fittings, Add</i>	1,562.87 446.87	48.92
23 21	13 23-1013	EA	8" Plain End Piping System, Bull Plug <i>For Galvanized Fittings, Add</i>	2,887.83 840.13	58.22
23 21	13 23-1014	EA	10" Plain End Piping System, Bull Plug <i>For Galvanized Fittings, Add</i>	5,185.89 1,525.12	68.10
23 21	13 23-1015	EA	12" Plain End Piping System, Bull Plug <i>For Galvanized Fittings, Add</i>	7,940.51 2,345.36	81.77
23 21 13 23-1016 Carbon Steel Piping Systems (23 21 13 23)					
23 21 13 23-1017 Class 3,000 LB Carbon Steel Socket Weld Fittings (23 21 13 23-1016)					
Note: ASTM A105					
23 21 13 23-1018 90 Degree Elbows, 3,000 LB Carbon Steel Socket Weld (23 21 13 23-1017)					
23 21	13 23-1019	EA	1/2" 90 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	56.70	27.91
23 21	13 23-1020	EA	3/4" 90 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	63.82	31.15
23 21	13 23-1021	EA	1" 90 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	83.68	34.82
23 21	13 23-1022	EA	1-1/4" 90 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	117.76	39.48
23 21	13 23-1023	EA	1-1/2" 90 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	134.91	44.41
23 21	13 23-1024	EA	2" 90 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	184.91	56.53
23 21	13 23-1025	EA	2-1/2" 90 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	379.64	83.60
23 21	13 23-1026	EA	3" 90 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	544.52	109.97
23 21	13 23-1027	EA	4" 90 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	968.11	108.05
23 21 13 23-1028 45 Degree Elbows, 3,000 LB Carbon Steel Socket Weld (23 21 13 23-1017)					
23 21	13 23-1029	EA	1/2" 45 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	63.28	27.91
23 21	13 23-1030	EA	3/4" 45 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	73.77	31.15
23 21	13 23-1031	EA	1" 45 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	86.74	34.82
23 21	13 23-1032	EA	1-1/4" 45 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	121.64	39.48
23 21	13 23-1033	EA	1-1/2" 45 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	144.20	44.41
23 21	13 23-1034	EA	2" 45 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	184.72	56.53
23 21	13 23-1035	EA	2-1/2" 45 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	436.46	83.60
23 21	13 23-1036	EA	3" 45 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	592.59	109.97
23 21	13 23-1037	EA	4" 45 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	947.31	108.05
23 21 13 23-1038 Straight Tees, 3,000 LB Carbon Steel Socket Weld (23 21 13 23-1017)					
23 21	13 23-1039	EA	1/2" Tee, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	69.19	34.82
23 21	13 23-1040	EA	3/4" Tee, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	84.74	40.18
23 21	13 23-1041	EA	1" Tee, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	114.55	47.51
23 21	13 23-1042	EA	1-1/4" Tee, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	155.35	56.53
23 21	13 23-1043	EA	1-1/2" Tee, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	188.70	67.39
23 21	13 23-1044	EA	2" Tee, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	252.53	83.60
23 21	13 23-1045	EA	2-1/2" Tee, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	471.16	109.97
23 21	13 23-1046	EA	3" Tee, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	655.69	130.54
23 21	13 23-1047	EA	4" Tee, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	1,284.96	136.41
23 21 13 23-1048 Reducing Tees, 3,000 LB Carbon Steel Socket Weld (23 21 13 23-1017)					
23 21	13 23-1049	EA	1/2" Tee, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	70.99	34.82
23 21	13 23-1050	EA	3/4" Tee, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	86.60	40.18
23 21	13 23-1051	EA	1" Tee, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	116.78	47.51
23 21	13 23-1052	EA	1-1/4" Tee, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	160.63	56.53
23 21	13 23-1053	EA	1-1/2" Tee, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	194.89	67.39
23 21	13 23-1054	EA	2" Tee, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	262.04	83.60
23 21	13 23-1055	EA	2-1/2" Tee, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	493.75	109.97
23 21	13 23-1056	EA	3" Tee, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	688.21	130.54
23 21	13 23-1057	EA	4" Tee, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	1,169.23	136.41

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1058 Straight Couplings, 3,000 LB Carbon Steel Socket Weld (23 21 13 23-1017)					
23 21	13 23-1059	EA	1/2" Coupling, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	48.59	27.91
23 21	13 23-1060	EA	3/4" Coupling, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	54.84	31.15
23 21	13 23-1061	EA	1" Coupling, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	64.61	34.82
23 21	13 23-1062	EA	1-1/4" Coupling, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	74.73	39.48
23 21	13 23-1063	EA	1-1/2" Coupling, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	87.66	44.41
23 21	13 23-1064	EA	2" Coupling, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	115.37	56.53
23 21	13 23-1065	EA	2-1/2" Coupling, Straight, Carbon Steel, Socket, Weld, 3,000 LB.....	202.49	83.60
23 21	13 23-1066	EA	3" Coupling, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	271.33	109.97
23 21	13 23-1067	EA	4" Coupling, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	374.28	108.05
23 21 13 23-1068 Reducing Couplings, 3,000 LB Carbon Steel Socket Weld (23 21 13 23-1017)					
23 21	13 23-1069	EA	1/2" Coupling, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	52.26	27.91
23 21	13 23-1070	EA	3/4" Coupling, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	58.87	31.15
23 21	13 23-1071	EA	1" Coupling, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	71.05	34.82
23 21	13 23-1072	EA	1-1/4" Coupling, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	82.51	39.48
23 21	13 23-1073	EA	1-1/2" Coupling, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	99.21	44.41
23 21	13 23-1074	EA	2" Coupling, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	127.71	56.53
23 21	13 23-1075	EA	2-1/2" Coupling, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	229.68	83.60
23 21	13 23-1076	EA	3" Coupling, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	326.02	109.97
23 21	13 23-1077	EA	4" Coupling, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	487.96	108.05
23 21 13 23-1078 Caps, 3,000 LB Carbon Steel Socket Weld (23 21 13 23-1017)					
23 21	13 23-1079	EA	1/2" Cap, Carbon Steel, Socket Weld, 3,000 LB.....	30.36	13.11
23 21	13 23-1080	EA	3/4" Cap, Carbon Steel, Socket Weld, 3,000 LB.....	35.02	13.96
23 21	13 23-1081	EA	1" Cap, Carbon Steel, Socket Weld, 3,000 LB.....	41.20	16.07
23 21	13 23-1082	EA	1-1/4" Cap, Carbon Steel, Socket Weld, 3,000 LB.....	48.41	17.48
23 21	13 23-1083	EA	1-1/2" Cap, Carbon Steel, Socket Weld, 3,000 LB.....	56.59	17.48
23 21	13 23-1084	EA	2" Cap, Carbon Steel, Socket Weld, 3,000 LB.....	73.47	22.41
23 21	13 23-1085	EA	2-1/2" Cap, Carbon Steel, Socket Weld, 3,000 LB.....	135.45	27.91
23 21	13 23-1086	EA	3" Cap, Carbon Steel, Socket Weld, 3,000 LB.....	198.12	33.70
23 21	13 23-1087	EA	4" Cap, Carbon Steel, Socket Weld, 3,000 LB.....	285.63	36.98
23 21 13 23-1088 Black Cast Iron Square Head Plug (23 21 13 23-1017)					
23 21	13 23-1089	EA	1/2" Square Head Plug, Black, Cast Iron.....	18.96	11.14
23 21	13 23-1090	EA	3/4" Square Head Plug, Black, Cast Iron.....	22.45	11.14
23 21	13 23-1091	EA	1" Square Head Plug, Black, Cast Iron.....	31.76	16.91
23 21	13 23-1092	EA	1-1/4" Square Head Plug, Black, Cast Iron.....	32.46	16.91
23 21	13 23-1093	EA	1-1/2" Square Head Plug, Black, Cast Iron.....	35.36	16.91
23 21	13 23-1094	EA	2" Square Head Plug, Black, Cast Iron.....	46.78	22.41
23 21	13 23-1095	EA	2-1/2" Square Head Plug, Black, Cast Iron.....	60.75	27.91
23 21	13 23-1096	EA	3" Square Head Plug, Black, Cast Iron.....	81.00	33.70
23 21	13 23-1097	EA	4" Square Head Plug, Black, Cast Iron.....	91.28	36.98
23 21 13 23-1098 Unions, 3,000 LB Carbon Steel Socket Weld (23 21 13 23-1017)					
23 21	13 23-1099	EA	1/2" Union, Carbon Steel, Socket Weld, 3,000 LB.....	90.44	34.82
23 21	13 23-1100	EA	3/4" Union, Carbon Steel, Socket Weld, 3,000 LB.....	99.46	40.18
23 21	13 23-1101	EA	1" Union, Carbon Steel, Socket Weld, 3,000 LB.....	128.52	47.51
23 21	13 23-1102	EA	1-1/4" Union, Carbon Steel, Socket Weld, 3,000 LB.....	163.79	56.53
23 21	13 23-1103	EA	1-1/2" Union, Carbon Steel, Socket Weld, 3,000 LB.....	197.61	67.39
23 21	13 23-1104	EA	2" Union, Carbon Steel, Socket Weld, 3,000 LB.....	247.33	83.60
23 21	13 23-1105	EA	2-1/2" Union, Carbon Steel, Socket Weld, 3,000 LB.....	448.66	90.79
23 21	13 23-1106	EA	3" Union, Carbon Steel, Socket Weld, 3,000 LB.....	607.73	109.97
23 21 13 23-1107 Class 6,000 LB Carbon Steel Socket Weld Fittings (23 21 13 23-1016)					
Note: ASTM A105					
23 21 13 23-1108 90 Degree Elbow, 6,000 LB Carbon Steel Socket Weld (23 21 13 23-1107)					
23 21	13 23-1109	EA	1/2" 90 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	64.63	27.91
23 21	13 23-1110	EA	3/4" 90 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	72.88	31.15
23 21	13 23-1111	EA	1" 90 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	100.39	34.82
23 21	13 23-1112	EA	1-1/4" 90 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	148.91	39.48
23 21	13 23-1113	EA	1-1/2" 90 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	171.16	44.41
23 21	13 23-1114	EA	2" 90 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	238.15	56.53
23 21	13 23-1115	EA	2-1/2" 90 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	514.72	83.60
23 21	13 23-1116	EA	3" 90 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	746.14	109.97
23 21	13 23-1117	EA	4" 90 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	1,396.28	108.05
23 21 13 23-1118 45 Degree Elbow, 6,000 LB Carbon Steel Socket Weld (23 21 13 23-1107)					
23 21	13 23-1119	EA	1/2" 45 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	75.46	27.91
23 21	13 23-1120	EA	3/4" 45 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	89.07	31.15
23 21	13 23-1121	EA	1" 45 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	106.28	34.82



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1122 EA 1-1/4" 45 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	157.05	39.48
23 21 13 23-1123 EA 1-1/2" 45 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	188.10	44.41
23 21 13 23-1124 EA 2" 45 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	241.37	56.53
23 21 13 23-1125 EA 2-1/2" 45 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	612.64	83.60
23 21 13 23-1126 EA 3" 45 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	834.76	109.97
23 21 13 23-1127 EA 4" 45 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	1,392.00	108.05
23 21 13 23-1128 Straight Tees, 6,000 LB Carbon Steel Socket Weld (23 21 13 23-1107)		
23 21 13 23-1129 EA 1/2" Tee, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	84.90	34.82
23 21 13 23-1130 EA 3/4" Tee, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	107.43	40.18
23 21 13 23-1131 EA 1" Tee, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	154.70	47.51
23 21 13 23-1132 EA 1-1/4" Tee, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	220.81	56.53
23 21 13 23-1133 EA 1-1/2" Tee, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	269.87	67.39
23 21 13 23-1134 EA 2" Tee, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	370.36	83.60
23 21 13 23-1135 EA 2-1/2" Tee, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	754.83	109.97
23 21 13 23-1136 EA 3" Tee, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	1,081.62	130.54
23 21 13 23-1137 EA 4" Tee, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	2,285.65	136.41
23 21 13 23-1138 Reducing Tees, 6,000 LB Carbon Steel Socket Weld (23 21 13 23-1107)		
23 21 13 23-1139 EA 1/2" Tee, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	70.99	34.82
23 21 13 23-1140 EA 3/4" Tee, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	86.60	40.18
23 21 13 23-1141 EA 1" Tee, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	116.78	47.51
23 21 13 23-1142 EA 1-1/4" Tee, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	160.63	56.53
23 21 13 23-1143 EA 1-1/2" Tee, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	194.89	67.39
23 21 13 23-1144 EA 2" Tee, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	262.04	83.60
23 21 13 23-1145 EA 2-1/2" Tee, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	493.75	109.97
23 21 13 23-1146 EA 3" Tee, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	688.21	130.54
23 21 13 23-1147 EA 4" Tee, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	1,169.23	136.41
23 21 13 23-1148 Straight Couplings, 6,000 LB Carbon Steel Socket Weld (23 21 13 23-1107)		
23 21 13 23-1149 EA 1/2" Coupling, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	51.89	27.91
23 21 13 23-1150 EA 3/4" Coupling, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	58.74	31.15
23 21 13 23-1151 EA 1" Coupling, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	70.59	34.82
23 21 13 23-1152 EA 1-1/4" Coupling, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	82.28	39.48
23 21 13 23-1153 EA 1-1/2" Coupling, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	97.82	44.41
23 21 13 23-1154 EA 2" Coupling, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	130.21	56.53
23 21 13 23-1155 EA 2-1/2" Coupling, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	239.82	83.60
23 21 13 23-1156 EA 3" Coupling, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	322.81	109.97
23 21 13 23-1157 EA 4" Coupling, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	476.97	108.05
23 21 13 23-1158 Reducing Couplings, 6,000 LB Carbon Steel Socket Weld (23 21 13 23-1107)		
23 21 13 23-1159 EA 1/2" Coupling, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	57.30	27.91
23 21 13 23-1160 EA 3/4" Coupling, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	64.68	31.15
23 21 13 23-1161 EA 1" Coupling, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	80.09	34.82
23 21 13 23-1162 EA 1-1/4" Coupling, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	93.74	39.48
23 21 13 23-1163 EA 1-1/2" Coupling, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	114.83	44.41
23 21 13 23-1164 EA 2" Coupling, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	148.37	56.53
23 21 13 23-1165 EA 2-1/2" Coupling, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	279.78	83.60
23 21 13 23-1166 EA 3" Coupling, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	403.37	109.97
23 21 13 23-1167 EA 4" Coupling, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	644.45	108.05
23 21 13 23-1168 Caps, 6,000 LB Carbon Steel Socket Weld (23 21 13 23-1107)		
23 21 13 23-1169 EA 1/2" Cap, Carbon Steel, Socket Weld, 6,000 LB.....	37.59	13.11
23 21 13 23-1170 EA 3/4" Cap, Carbon Steel, Socket Weld, 6,000 LB.....	44.50	13.96
23 21 13 23-1171 EA 1" Cap, Carbon Steel, Socket Weld, 6,000 LB.....	52.68	16.07
23 21 13 23-1172 EA 1-1/4" Cap, Carbon Steel, Socket Weld, 6,000 LB.....	63.37	17.48
23 21 13 23-1173 EA 1-1/2" Cap, Carbon Steel, Socket Weld, 6,000 LB.....	77.04	17.48
23 21 13 23-1174 EA 2" Cap, Carbon Steel, Socket Weld, 6,000 LB.....	100.16	22.41
23 21 13 23-1175 EA 2-1/2" Cap, Carbon Steel, Socket Weld, 6,000 LB.....	198.32	27.91
23 21 13 23-1176 EA 3" Cap, Carbon Steel, Socket Weld, 6,000 LB.....	297.17	33.70
23 21 13 23-1177 EA 4" Cap, Carbon Steel, Socket Weld, 6,000 LB.....	440.06	36.98
23 21 13 23-1178 Black Cast Iron Square Head Plug (23 21 13 23-1107)		
23 21 13 23-1179 EA 1/2" Square Head Plug, Black Cast Iron.....	18.97	11.14
23 21 13 23-1180 EA 3/4" Square Head Plug, Black Cast Iron.....	22.48	11.14
23 21 13 23-1181 EA 1" Square Head Plug, Black Cast Iron.....	31.80	16.91
23 21 13 23-1182 EA 1-1/4" Square Head Plug, Black Cast Iron.....	32.50	16.91
23 21 13 23-1183 EA 1-1/2" Square Head Plug, Black Cast Iron.....	35.41	16.91
23 21 13 23-1184 EA 2" Square Head Plug, Black Cast Iron.....	46.84	22.41
23 21 13 23-1185 EA 2-1/2" Square Head Plug, Black Cast Iron.....	60.85	27.91
23 21 13 23-1186 EA 3" Square Head Plug, Black Cast Iron.....	81.15	33.70
23 21 13 23-1187 EA 4" Square Head Plug, Black Cast Iron.....	91.45	36.98

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1188 Unions, 6,000 LB Carbon Steel Socket Weld <small>(23 21 13 23-1107)</small>		
23 21 13 23-1189 EA 1/2" Union, Carbon Steel, Socket Weld, 6,000 LB.....	113.81	34.82
23 21 13 23-1190 EA 3/4" Union, Carbon Steel, Socket Weld, 6,000 LB.....	123.45	40.18
23 21 13 23-1191 EA 1" Union, Carbon Steel, Socket Weld, 6,000 LB.....	163.58	47.51
23 21 13 23-1192 EA 1-1/4" Union, Carbon Steel, Socket Weld, 6,000 LB.....	212.17	56.53
23 21 13 23-1193 EA 1-1/2" Union, Carbon Steel, Socket Weld, 6,000 LB.....	256.65	67.39
23 21 13 23-1194 EA 2" Union, Carbon Steel, Socket Weld, 6,000 LB.....	321.95	83.60
23 21 13 23-1195 EA 2-1/2" Union, Carbon Steel, Socket Weld, 6,000 LB.....	639.71	90.79
23 21 13 23-1196 EA 3" Union, Carbon Steel, Socket Weld, 6,000 LB.....	878.53	109.97
23 21 13 23-1197 Carbon Steel, Seamless Piping System <small>(23 21 13 23-1016)</small>		
Note: ASTM A106 Excludes hangers or fittings. Demolition Note applies to all pipe demolition.		
23 21 13 23-1198 Schedule 40, Carbon Steel, Seamless Piping <small>(23 21 13 23-1197)</small>		
Note: ASTM A106 Excludes hangers, elbow, tee, or reducer fittings.		
23 21 13 23-1199 LF 1/4" Schedule 40, Threaded (A-106) Seamless, Carbon Steel Pipe.....	13.39	5.22
For Schedule 80, Add	2.00	
23 21 13 23-1200 LF 1/2" Schedule 40, Threaded (A-106) Seamless, Carbon Steel Pipe.....	13.64	5.64
For Schedule 80, Add	1.83	
For Schedule 160, Add	7.64	
23 21 13 23-1201 LF 3/4" Schedule 40, Threaded (A-106) Seamless, Carbon Steel Pipe.....	15.33	6.06
For Schedule 80, Add	2.24	
For Schedule 160, Add	9.35	
23 21 13 23-1202 LF 1" Schedule 40, Threaded (A-106) Seamless, Carbon Steel Pipe.....	16.27	6.63
For Schedule 80, Add	2.31	
For Schedule 160, Add	9.63	
23 21 13 23-1203 LF 1-1/2" Schedule 40, Threaded (A-106) Seamless, Carbon Steel Pipe.....	22.66	8.18
For Schedule 80, Add	3.74	
For Schedule 160, Add	15.60	
23 21 13 23-1204 LF 2" Schedule 40, Threaded (A-106) Seamless, Carbon Steel Pipe.....	27.29	9.86
For Schedule 80, Add	4.48	
For Schedule 160, Add	18.68	
23 21 13 23-1205 90 Degree Elbows, Screwed Carbon Steel <small>(23 21 13 23-1197)</small>		
23 21 13 23-1206 EA 1/4" 90 Degree Elbow, 2,000 LB, Screwed Carbon Steel.....	41.57	21.43
23 21 13 23-1207 EA 1/2" 90 Degree Elbow, 2,000 LB, Screwed Carbon Steel.....	50.52	25.10
23 21 13 23-1208 EA 3/4" 90 Degree Elbow, 2,000 LB, Screwed Carbon Steel.....	56.42	28.06
23 21 13 23-1209 EA 1" 90 Degree Elbow, 2,000 LB, Screwed Carbon Steel.....	65.06	31.29
23 21 13 23-1210 EA 1-1/2" 90 Degree Elbow, 2,000 LB, Screwed Carbon Steel.....	106.65	40.04
23 21 13 23-1211 EA 2" 90 Degree Elbow, 2,000 LB, Screwed Carbon Steel.....	135.09	50.89
23 21 13 23-1212 EA 1/4" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	44.57	21.43
23 21 13 23-1213 EA 1/2" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	51.64	25.10
23 21 13 23-1214 EA 3/4" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	60.13	28.06
23 21 13 23-1215 EA 1" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	73.13	31.29
23 21 13 23-1216 EA 1-1/2" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	125.92	40.04
23 21 13 23-1217 EA 2" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	156.38	50.89
23 21 13 23-1218 EA 1/2" 90 Degree Elbow, 6,000 LB, Screwed Carbon Steel.....	62.13	25.10
23 21 13 23-1219 EA 3/4" 90 Degree Elbow, 6,000 LB, Screwed Carbon Steel.....	73.33	28.06
23 21 13 23-1220 EA 1" 90 Degree Elbow, 6,000 LB, Screwed Carbon Steel.....	87.00	31.29
23 21 13 23-1221 EA 1-1/2" 90 Degree Elbow, 6,000 LB, Screwed Carbon Steel.....	164.90	40.04
23 21 13 23-1222 EA 2" 90 Degree Elbow, 6,000 LB, Screwed Carbon Steel.....	259.77	50.89
23 21 13 23-1223 45 Degree Elbows, Screwed Carbon Steel <small>(23 21 13 23-1197)</small>		
23 21 13 23-1224 EA 1/4" 45 Degree Elbow, 2,000 LB, Screwed Carbon Steel.....	47.76	21.43
23 21 13 23-1225 EA 1/2" 45 Degree Elbow, 2,000 LB, Screwed Carbon Steel.....	52.94	25.10
23 21 13 23-1226 EA 3/4" 45 Degree Elbow, 2,000 LB, Screwed Carbon Steel.....	59.55	28.06
23 21 13 23-1227 EA 1" 45 Degree Elbow, 2,000 LB, Screwed Carbon Steel.....	67.44	31.29
23 21 13 23-1228 EA 1-1/2" 45 Degree Elbow, 2,000 LB, Screwed Carbon Steel.....	98.96	40.04
23 21 13 23-1229 EA 2" 45 Degree Elbow, 2,000 LB, Screwed Carbon Steel.....	146.96	50.89
23 21 13 23-1230 EA 1/4" 45 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	48.24	21.43
23 21 13 23-1231 EA 1/2" 45 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	55.69	25.10
23 21 13 23-1232 EA 3/4" 45 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	62.71	28.06
23 21 13 23-1233 EA 1" 45 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	75.68	31.29
23 21 13 23-1234 EA 1-1/2" 45 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	122.94	40.04
23 21 13 23-1235 EA 2" 45 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	163.02	50.89
23 21 13 23-1236 EA 1/2" 45 Degree Elbow, 6,000 LB, Screwed Carbon Steel.....	69.37	25.10
23 21 13 23-1237 EA 3/4" 45 Degree Elbow, 6,000 LB, Screwed Carbon Steel.....	86.40	28.06
23 21 13 23-1238 EA 1" 45 Degree Elbow, 6,000 LB, Screwed Carbon Steel.....	91.91	31.29
23 21 13 23-1239 EA 1-1/2" 45 Degree Elbow, 6,000 LB, Screwed Carbon Steel.....	192.71	40.04
23 21 13 23-1240 EA 2" 45 Degree Elbow, 6,000 LB, Screwed Carbon Steel.....	261.61	50.89
23 21 13 23-1241 Straight Tees, Screwed Carbon Steel <small>(23 21 13 23-1197)</small>		
23 21 13 23-1242 EA 1/4" Tee, Straight, 2,000 LB, Screwed Carbon Steel.....	55.55	29.74
23 21 13 23-1243 EA 1/2" Tee, Straight, 2,000 LB, Screwed Carbon Steel.....	63.73	31.29
23 21 13 23-1244 EA 3/4" Tee, Straight, 2,000 LB, Screwed Carbon Steel.....	77.05	36.23
23 21 13 23-1245 EA 1" Tee, Straight, 2,000 LB, Screwed Carbon Steel.....	95.30	42.72
23 21 13 23-1246 EA 1-1/2" Tee, Straight, 2,000 LB, Screwed Carbon Steel.....	156.60	60.63



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1247 EA 2" Tee, Straight, 2,000 LB, Screwed Carbon Steel.....	194.17	75.29
23 21 13 23-1248 EA 1/4" Tee, Straight, 3,000 LB, Screwed Carbon Steel.....	58.11	29.74
23 21 13 23-1249 EA 1/2" Tee, Straight, 3,000 LB, Screwed Carbon Steel.....	65.40	31.29
23 21 13 23-1250 EA 3/4" Tee, Straight, 3,000 LB, Screwed Carbon Steel.....	82.62	36.23
23 21 13 23-1251 EA 1" Tee, Straight, 3,000 LB, Screwed Carbon Steel.....	100.08	42.72
23 21 13 23-1252 EA 1-1/2" Tee, Straight, 3,000 LB, Screwed Carbon Steel.....	173.13	60.63
23 21 13 23-1253 EA 2" Tee, Straight, 3,000 LB, Screwed Carbon Steel.....	221.52	75.29
23 21 13 23-1254 EA 1/2" Tee, Straight, 6,000 LB, Screwed Carbon Steel.....	77.98	31.29
23 21 13 23-1255 EA 3/4" Tee, Straight, 6,000 LB, Screwed Carbon Steel.....	96.14	36.23
23 21 13 23-1256 EA 1" Tee, Straight, 6,000 LB, Screwed Carbon Steel.....	133.50	42.72
23 21 13 23-1257 EA 1-1/2" Tee, Straight, 6,000 LB, Screwed Carbon Steel.....	211.10	60.63
23 21 13 23-1258 EA 2" Tee, Straight, 6,000 LB, Screwed Carbon Steel.....	342.57	75.29
23 21 13 23-1259 Crosses, Screwed Carbon Steel <small>(23 21 13 23-1197)</small>		
23 21 13 23-1260 EA 1/4" Cross, 2,000 LB, Screwed Carbon Steel.....	85.62	37.64
23 21 13 23-1261 EA 1/2" Cross, 2,000 LB, Screwed Carbon Steel.....	102.24	42.29
23 21 13 23-1262 EA 3/4" Cross, 2,000 LB, Screwed Carbon Steel.....	110.09	45.11
23 21 13 23-1263 EA 1" Cross, 2,000 LB, Screwed Carbon Steel.....	136.84	54.42
23 21 13 23-1264 EA 1-1/2" Cross, 2,000 LB, Screwed Carbon Steel.....	247.22	76.13
23 21 13 23-1265 EA 2" Cross, 2,000 LB, Screwed Carbon Steel.....	321.28	94.03
23 21 13 23-1266 EA 1/2" Cross, 3,000 LB, Screwed Carbon Steel.....	105.39	42.29
23 21 13 23-1267 EA 3/4" Cross, 3,000 LB, Screwed Carbon Steel.....	128.16	45.11
23 21 13 23-1268 EA 1" Cross, 3,000 LB, Screwed Carbon Steel.....	152.66	54.42
23 21 13 23-1269 EA 1-1/2" Cross, 3,000 LB, Screwed Carbon Steel.....	270.03	76.13
23 21 13 23-1270 EA 2" Cross, 3,000 LB, Screwed Carbon Steel.....	362.94	94.03
23 21 13 23-1271 EA 1/2" Cross, 6,000 LB, Screwed Carbon Steel.....	164.27	42.29
23 21 13 23-1272 EA 3/4" Cross, 6,000 LB, Screwed Carbon Steel.....	288.89	45.11
23 21 13 23-1273 EA 1" Cross, 6,000 LB, Screwed Carbon Steel.....	400.33	54.42
23 21 13 23-1274 EA 1-1/2" Cross, 6,000 LB, Screwed Carbon Steel.....	638.32	76.13
23 21 13 23-1275 EA 2" Cross, 6,000 LB, Screwed Carbon Steel.....	694.10	94.03
23 21 13 23-1276 Straight Couplings, Screwed Carbon Steel <small>(23 21 13 23-1197)</small>		
23 21 13 23-1277 EA 1/4" Coupling, Straight, 3,000 LB, Screwed Carbon Steel.....	37.64	21.43
23 21 13 23-1278 EA 1/2" Coupling, Straight, 3,000 LB, Screwed Carbon Steel.....	42.82	25.10
23 21 13 23-1279 EA 3/4" Coupling, Straight, 3,000 LB, Screwed Carbon Steel.....	49.27	28.06
23 21 13 23-1280 EA 1" Coupling, Straight, 3,000 LB, Screwed Carbon Steel.....	57.81	31.29
23 21 13 23-1281 EA 1-1/2" Coupling, Straight, 3,000 LB, Screwed Carbon Steel.....	87.22	40.04
23 21 13 23-1282 EA 2" Coupling, Straight, 3,000 LB, Screwed Carbon Steel.....	110.67	50.89
23 21 13 23-1283 EA 1/4" Coupling, Straight, 6,000 LB, Screwed Carbon Steel.....	45.19	21.43
23 21 13 23-1284 EA 1/2" Coupling, Straight, 6,000 LB, Screwed Carbon Steel.....	47.60	25.10
23 21 13 23-1285 EA 3/4" Coupling, Straight, 6,000 LB, Screwed Carbon Steel.....	52.94	28.06
23 21 13 23-1286 EA 1" Coupling, Straight, 6,000 LB, Screwed Carbon Steel.....	62.70	31.29
23 21 13 23-1287 EA 1-1/2" Coupling, Straight, 6,000 LB, Screwed Carbon Steel.....	94.69	40.04
23 21 13 23-1288 EA 2" Coupling, Straight, 6,000 LB, Screwed Carbon Steel.....	137.95	50.89
23 21 13 23-1289 Reducing Couplings, Screwed Carbon Steel <small>(23 21 13 23-1197)</small>		
23 21 13 23-1290 EA 1/4" Coupling, Reducing, 3,000 LB, Screwed Carbon Steel.....	38.69	22.84
23 21 13 23-1291 EA 1/2" Coupling, Reducing, 3,000 LB, Screwed Carbon Steel.....	45.30	25.10
23 21 13 23-1292 EA 3/4" Coupling, Reducing, 3,000 LB, Screwed Carbon Steel.....	53.05	28.06
23 21 13 23-1293 EA 1" Coupling, Reducing, 3,000 LB, Screwed Carbon Steel.....	63.06	31.29
23 21 13 23-1294 EA 1-1/2" Coupling, Reducing, 3,000 LB, Screwed Carbon Steel.....	88.58	40.04
23 21 13 23-1295 EA 2" Coupling, Reducing, 3,000 LB, Screwed Carbon Steel.....	118.03	50.89
23 21 13 23-1296 EA 1/2" Coupling, Reducing, 6,000 LB, Screwed Carbon Steel.....	141.95	25.10
23 21 13 23-1297 EA 3/4" Coupling, Reducing, 6,000 LB, Screwed Carbon Steel.....	146.43	28.06
23 21 13 23-1298 EA 1" Coupling, Reducing, 6,000 LB, Screwed Carbon Steel.....	171.90	31.29
23 21 13 23-1299 EA 1-1/2" Coupling, Reducing, 6,000 LB, Screwed Carbon Steel.....	249.57	40.04
23 21 13 23-1300 EA 2" Coupling, Reducing, 6,000 LB, Screwed Carbon Steel.....	361.71	50.89
23 21 13 23-1301 Caps, Screwed Carbon Steel <small>(23 21 13 23-1197)</small>		
23 21 13 23-1302 EA 1/4" Cap, 3,000 LB, Screwed Carbon Steel.....	18.86	9.58
23 21 13 23-1303 EA 1/2" Cap, 3,000 LB, Screwed Carbon Steel.....	21.72	11.14
23 21 13 23-1304 EA 3/4" Cap, 3,000 LB, Screwed Carbon Steel.....	25.67	12.55
23 21 13 23-1305 EA 1" Cap, 3,000 LB, Screwed Carbon Steel.....	31.49	13.96
23 21 13 23-1306 EA 1-1/2" Cap, 3,000 LB, Screwed Carbon Steel.....	43.51	17.77
23 21 13 23-1307 EA 2" Cap, 3,000 LB, Screwed Carbon Steel.....	59.98	22.70
23 21 13 23-1308 EA 1/4" Cap, 6,000 LB, Screwed Carbon Steel.....	27.92	9.58
23 21 13 23-1309 EA 1/2" Cap, 6,000 LB, Screwed Carbon Steel.....	27.53	11.14
23 21 13 23-1310 EA 3/4" Cap, 6,000 LB, Screwed Carbon Steel.....	35.13	12.55
23 21 13 23-1311 EA 1" Cap, 6,000 LB, Screwed Carbon Steel.....	38.40	13.96
23 21 13 23-1312 EA 1-1/2" Cap, 6,000 LB, Screwed Carbon Steel.....	71.66	17.77
23 21 13 23-1313 EA 2" Cap, 6,000 LB, Screwed Carbon Steel.....	87.39	22.70
23 21 13 23-1314 Nipples, Screwed Carbon Steel <small>(23 21 13 23-1197)</small>		
23 21 13 23-1315 EA 1/4" Nipple, 2" Long, Screwed Carbon Steel.....	23.24	12.83
23 21 13 23-1316 EA 1/2" Nipple, 2" Long, Screwed Carbon Steel.....	23.58	13.39

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1317 EA 3/4" Nipple, 2" Long, Screwed Carbon Steel	23.35	13.39
23 21 13 23-1318 EA 1" Nipple, 2" Long, Screwed Carbon Steel	26.27	14.52
23 21 13 23-1319 EA 1-1/2" Nipple, 2" Long, Screwed Carbon Steel	30.42	15.65
23 21 13 23-1320 EA 2" Nipple, 2" Long, Screwed Carbon Steel	35.53	20.16
23 21 13 23-1321 EA 1/4" Nipple, 4" Long, Screwed Carbon Steel	24.97	12.83
23 21 13 23-1322 EA 1/2" Nipple, 4" Long, Screwed Carbon Steel	24.95	13.39
23 21 13 23-1323 EA 3/4" Nipple, 4" Long, Screwed Carbon Steel	24.90	13.39
23 21 13 23-1324 EA 1" Nipple, 4" Long, Screwed Carbon Steel	28.36	14.52
23 21 13 23-1325 EA 1-1/2" Nipple, 4" Long, Screwed Carbon Steel	34.15	15.65
23 21 13 23-1326 EA 2" Nipple, 4" Long, Screwed Carbon Steel	40.99	20.16
23 21 13 23-1327 EA 1/4" Nipple, 6" Long, Screwed Carbon Steel	29.11	12.83
23 21 13 23-1328 EA 1/2" Nipple, 6" Long, Screwed Carbon Steel	27.13	13.39
23 21 13 23-1329 EA 3/4" Nipple, 6" Long, Screwed Carbon Steel	27.33	13.39
23 21 13 23-1330 EA 1" Nipple, 6" Long, Screwed Carbon Steel	31.37	14.52
23 21 13 23-1331 EA 1-1/2" Nipple, 6" Long, Screwed Carbon Steel	39.25	15.65
23 21 13 23-1332 EA 2" Nipple, 6" Long, Screwed Carbon Steel	45.51	20.16
23 21 13 23-1333 Unions, Screwed Carbon Steel (23 21 13 23-1197)		
23 21 13 23-1334 EA 1/4" Union, 3,000 LB, Screwed Carbon Steel	48.41	31.15
23 21 13 23-1335 EA 1/2" Union, 3,000 LB, Screwed Carbon Steel	49.95	31.29
23 21 13 23-1336 EA 3/4" Union, 3,000 LB, Screwed Carbon Steel	57.26	36.23
23 21 13 23-1337 EA 1" Union, 3,000 LB, Screwed Carbon Steel	68.53	42.72
23 21 13 23-1338 EA 1-1/2" Union, 3,000 LB, Screwed Carbon Steel	98.42	60.63
23 21 13 23-1339 EA 2" Union, 3,000 LB, Screwed Carbon Steel	122.24	75.29
23 21 13 23-1340 EA 1/4" Union, 6,000 LB, Screwed Carbon Steel	88.50	31.15
23 21 13 23-1341 EA 1/2" Union, 6,000 LB, Screwed Carbon Steel	98.41	31.29
23 21 13 23-1342 EA 3/4" Union, 6,000 LB, Screwed Carbon Steel	115.95	36.23
23 21 13 23-1343 EA 1" Union, 6,000 LB, Screwed Carbon Steel	140.86	42.72
23 21 13 23-1344 EA 1-1/2" Union, 6,000 LB, Screwed Carbon Steel	246.32	60.63
23 21 13 23-1345 EA 2" Union, 6,000 LB, Screwed Carbon Steel	304.27	75.29
23 21 13 23-1346 Weld Neck Flanges, Screwed Carbon Steel (23 21 13 23-1197)		
23 21 13 23-1347 EA 1/2" Flange, 150 LB, Screwed Carbon Steel	108.68	58.22
23 21 13 23-1348 EA 3/4" Flange, 150 LB, Screwed Carbon Steel	113.60	61.05
23 21 13 23-1349 EA 1" Flange, 150 LB, Screwed Carbon Steel	117.57	63.72
23 21 13 23-1350 EA 1-1/2" Flange, 150 LB, Screwed Carbon Steel	130.38	71.76
23 21 13 23-1351 EA 2" Flange, 150 LB, Screwed Carbon Steel	135.07	74.87
23 21 13 23-1352 EA 1/2" Flange, 300 LB, Screwed Carbon Steel	110.04	58.22
For Ring Type Joint, Add	22.67	
For Blind Flange, Deduct	-39.48	
23 21 13 23-1353 EA 3/4" Flange, 300 LB, Screwed Carbon Steel	115.04	61.05
For Ring Type Joint, Add	23.44	
For Blind Flange, Deduct	-41.33	
23 21 13 23-1354 EA 1" Flange, 300 LB, Screwed Carbon Steel	119.75	63.72
For Ring Type Joint, Add	24.18	
For Blind Flange, Deduct	-43.06	
23 21 13 23-1355 EA 1-1/2" Flange, 300 LB, Screwed Carbon Steel	135.59	71.76
For Ring Type Joint, Add	27.97	
For Blind Flange, Deduct	-48.64	
23 21 13 23-1356 EA 2" Flange, 300 LB, Screwed Carbon Steel	140.28	74.87
For Ring Type Joint, Add	27.97	
For Blind Flange, Deduct	-50.52	
23 21 13 23-1357 EA 1/2" Flange, 600 LB, Screwed Carbon Steel	118.96	58.22
For Ring Type Joint, Add	31.59	
For Blind Flange, Deduct	-41.27	
23 21 13 23-1358 EA 3/4" Flange, 600 LB, Screwed Carbon Steel	123.19	61.05
For Ring Type Joint, Add	31.59	
For Blind Flange, Deduct	-42.96	
23 21 13 23-1359 EA 1" Flange, 600 LB, Screwed Carbon Steel	128.60	63.72
For Ring Type Joint, Add	33.03	
For Blind Flange, Deduct	-44.83	
23 21 13 23-1360 EA 1-1/2" Flange, 600 LB, Screwed Carbon Steel	146.56	71.76
For Ring Type Joint, Add	38.94	
For Blind Flange, Deduct	-50.84	
23 21 13 23-1361 EA 2" Flange, 600 LB, Screwed Carbon Steel	148.55	74.87
For Ring Type Joint, Add	36.24	
For Blind Flange, Deduct	-52.17	
23 21 13 23-1362 Square Head Plugs, Screwed Carbon Steel (23 21 13 23-1197)		
23 21 13 23-1363 EA 1/4" Square Head Plug, Screwed Carbon Steel	7.91	3.95
23 21 13 23-1364 EA 1/2" Square Head Plug, Screwed Carbon Steel	9.47	4.66
23 21 13 23-1365 EA 3/4" Square Head Plug, Screwed Carbon Steel	11.04	5.36
23 21 13 23-1366 EA 1" Square Head Plug, Screwed Carbon Steel	16.08	7.89
23 21 13 23-1367 EA 1-1/2" Square Head Plug, Screwed Carbon Steel	21.34	7.89
23 21 13 23-1368 EA 2" Square Head Plug, Screwed Carbon Steel	31.25	10.29
23 21 13 23-1369 Hex Head Plugs, Screwed Carbon Steel (23 21 13 23-1197)		
23 21 13 23-1370 EA 1/4" Hex Head Plug, Screwed Carbon Steel	7.39	3.95



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1371 EA 1/2" Hex Head Plug, Screwed Carbon Steel.....	8.98	4.66
23 21 13 23-1372 EA 3/4" Hex Head Plug, Screwed Carbon Steel.....	10.73	5.36
23 21 13 23-1373 EA 1" Hex Head Plug, Screwed Carbon Steel.....	15.79	7.89
23 21 13 23-1374 EA 1-1/2" Hex Head Plug, Screwed Carbon Steel.....	20.18	7.89
23 21 13 23-1375 EA 2" Hex Head Plug, Screwed Carbon Steel.....	32.08	10.29
23 21 13 23-1376 Round Head Plugs, Screwed Carbon Steel (23 21 13 23-1197)		
23 21 13 23-1377 EA 1/4" Round Head Plug, Screwed Carbon Steel.....	9.09	3.95
23 21 13 23-1378 EA 1/2" Round Head Plug, Screwed Carbon Steel.....	9.54	4.66
23 21 13 23-1379 EA 3/4" Round Head Plug, Screwed Carbon Steel.....	10.82	5.36
23 21 13 23-1380 EA 1" Round Head Plug, Screwed Carbon Steel.....	16.26	7.89
23 21 13 23-1381 EA 1-1/2" Round Head Plug, Screwed Carbon Steel.....	22.80	7.89
23 21 13 23-1382 EA 2" Round Head Plug, Screwed Carbon Steel.....	31.76	10.29
23 21 13 23-1383 Hexagon Bushings, Screwed Carbon Steel (23 21 13 23-1197)		
23 21 13 23-1384 EA 1/4" Hex Bushing, Screwed Carbon Steel.....	7.78	3.95
23 21 13 23-1385 EA 1/2" Hex Bushing, Screwed Carbon Steel.....	8.96	4.66
23 21 13 23-1386 EA 3/4" Hex Bushing, Screwed Carbon Steel.....	10.59	5.36
23 21 13 23-1387 EA 1" Hex Bushing, Screwed Carbon Steel.....	16.17	7.89
23 21 13 23-1388 EA 1-1/2" Hex Bushing, Screwed Carbon Steel.....	20.08	7.89
23 21 13 23-1389 EA 2" Hex Bushing, Screwed Carbon Steel.....	30.86	10.29
23 21 13 23-1390 90 Degree Street Elbows, Screwed Carbon Steel (23 21 13 23-1197)		
23 21 13 23-1391 EA 1/4" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	51.16	21.43
23 21 13 23-1392 EA 1/2" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	58.05	25.10
23 21 13 23-1393 EA 3/4" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	68.37	28.06
23 21 13 23-1394 EA 1" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	80.62	31.29
23 21 13 23-1395 EA 1-1/2" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	131.97	40.04
23 21 13 23-1396 EA 2" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	179.00	50.89
23 21 13 23-1397 EA 1/2" 90 Degree Elbow, 6,000 LB, Screwed Carbon Steel.....	85.44	25.10
23 21 13 23-1398 EA 3/4" 90 Degree Elbow, 6,000 LB, Screwed Carbon Steel.....	124.07	28.06
23 21 13 23-1399 EA 1" 90 Degree Elbow, 6,000 LB, Screwed Carbon Steel.....	173.83	31.29
23 21 13 23-1400 EA 1-1/2" 90 Degree Elbow, 6,000 LB, Screwed Carbon Steel.....	388.38	40.04
23 21 13 23-1401 Screwed Carbon Steel Laterals (23 21 13 23-1197)		
23 21 13 23-1402 EA 1/2" Lateral, Straight, 3,000 LB, Screwed Carbon Steel.....	235.69	31.29
23 21 13 23-1403 EA 3/4" Lateral, Straight, 3,000 LB, Screwed Carbon Steel.....	283.95	36.23
23 21 13 23-1404 EA 1" Lateral, Straight, 3,000 LB, Screwed Carbon Steel.....	347.97	42.72
23 21 13 23-1405 EA 1-1/2" Lateral, Straight, 3,000 LB, Screwed Carbon Steel.....	445.40	60.63
23 21 13 23-1406 EA 2" Lateral, Straight, 3,000 LB, Screwed Carbon Steel.....	555.86	75.29
23 21 13 23-1407 EA 1/2" Lateral, Straight, 6,000 LB, Screwed Carbon Steel.....	299.69	31.29
23 21 13 23-1408 EA 3/4" Lateral, Straight, 6,000 LB, Screwed Carbon Steel.....	379.12	36.23
23 21 13 23-1409 EA 1" Lateral, Straight, 6,000 LB, Screwed Carbon Steel.....	449.73	42.72
23 21 13 23-1410 EA 1-1/2" Lateral, Straight, 6,000 LB, Screwed Carbon Steel.....	632.49	60.63
23 21 13 23-1411 Grooved-Joint Pipe (23 21 13 23)		
Note: Includes grooving of pipe. Excludes hangers, elbow, tee, reducer fitting or couplings.		
23 21 13 23-1412 Schedule 10 Black Grooved Pipe (23 21 13 23-1411)		
23 21 13 23-1413 LF 2" Black Schedule 10 Grooved Pipe.....	43.23	17.91
23 21 13 23-1414 LF 2-1/2" Black Schedule 10 Grooved Pipe.....	58.14	24.53
23 21 13 23-1415 LF 3" Black Schedule 10 Grooved Pipe.....	65.43	27.21
23 21 13 23-1416 LF 3-1/2" Black Schedule 10 Grooved Pipe.....	73.88	28.20
23 21 13 23-1417 LF 4" Black Schedule 10 Grooved Pipe.....	78.19	30.59
23 21 13 23-1418 LF 5" Black Schedule 10 Grooved Pipe.....	112.99	37.50
23 21 13 23-1419 LF 6" Black Schedule 10 Grooved Pipe.....	143.44	53.30
23 21 13 23-1420 LF 8" Black Schedule 10 Grooved Pipe.....	201.88	59.77
23 21 13 23-1421 LF 10" Black Schedule 10 Grooved Pipe.....	254.38	72.04
23 21 13 23-1422 LF 12" Black Schedule 10 Grooved Pipe.....	294.12	81.63
23 21 13 23-1423 Schedule 40 Black Grooved Pipe (23 21 13 23-1411)		
23 21 13 23-1424 LF 3/4" Black Schedule 40 Grooved Pipe.....	25.88	10.86
23 21 13 23-1425 LF 1" Black Schedule 40 Grooved Pipe.....	29.24	12.27
23 21 13 23-1426 LF 1-1/4" Black Schedule 40 Grooved Pipe.....	33.53	13.25
23 21 13 23-1427 LF 1-1/2" Black Schedule 40 Grooved Pipe.....	38.16	15.08
23 21 13 23-1428 LF 2" Black Schedule 40 Grooved Pipe.....	48.01	19.18
23 21 13 23-1429 LF 2-1/2" Black Schedule 40 Grooved Pipe.....	67.06	26.23
23 21 13 23-1430 LF 3" Black Schedule 40 Grooved Pipe.....	79.62	29.89
23 21 13 23-1431 LF 4" Black Schedule 40 Grooved Pipe.....	99.26	33.27
23 21 13 23-1432 LF 5" Black Schedule 40 Grooved Pipe.....	139.08	40.46
23 21 13 23-1433 LF 6" Black Schedule 40 Grooved Pipe.....	185.34	58.36
23 21 13 23-1434 LF 8" Black Schedule 40 Grooved Pipe.....	251.14	66.12
23 21 13 23-1435 LF 10" Black Schedule 40 Grooved Pipe.....	351.72	78.95
23 21 13 23-1436 LF 12" Black Schedule 40 Grooved Pipe.....	415.37	90.65

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 20 HVAC Piping and Pumps

23 21 Hydronic Piping and Pumps



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-1437	LF	14" Black Schedule 40 Grooved Pipe	547.06	122.51
23 21	13 23-1438	LF	16" Black Schedule 40 Grooved Pipe	633.72	144.08
23 21	13 23-1439	LF	18" Black Schedule 40 Grooved Pipe	788.49	174.96
23 21	13 23-1440	LF	20" Black Schedule 40 Grooved Pipe	908.16	204.00
23 21	13 23-1441	LF	24" Black Schedule 40 Grooved Pipe	1,197.21	244.89
23 21 13 23-1442 Schedule 80 Black Grooved Pipe (23 21 13 23-1411)					
23 21	13 23-1443	LF	3/4" Black Schedule 80 Grooved Pipe	28.37	11.85
23 21	13 23-1444	LF	1" Black Schedule 80 Grooved Pipe	31.74	12.55
23 21	13 23-1445	LF	1-1/4" Black Schedule 80 Grooved Pipe	37.64	13.96
23 21	13 23-1446	LF	1-1/2" Black Schedule 80 Grooved Pipe	42.95	15.65
23 21	13 23-1447	LF	2" Black Schedule 80 Grooved Pipe	55.59	20.16
23 21	13 23-1448	LF	2-1/2" Black Schedule 80 Grooved Pipe	78.63	27.77
23 21	13 23-1449	LF	3" Black Schedule 80 Grooved Pipe	94.63	31.15
23 21	13 23-1450	LF	4" Black Schedule 80 Grooved Pipe	121.21	33.98
23 21	13 23-1451	LF	5" Black Schedule 80 Grooved Pipe	189.30	42.72
23 21	13 23-1452	LF	6" Black Schedule 80 Grooved Pipe	243.95	61.19
23 21	13 23-1453	LF	8" Black Schedule 80 Grooved Pipe	374.85	69.93
23 21	13 23-1454	LF	10" Black Schedule 80 Grooved Pipe	467.73	84.45
23 21	13 23-1455	LF	12" Black Schedule 80 Grooved Pipe	486.75	102.07
23 21 13 23-1456 Schedule 40 Galvanized Grooved Pipe (23 21 13 23-1411)					
23 21	13 23-1457	LF	3/4" Galvanized Schedule 40 Grooved Pipe	23.36	10.86
23 21	13 23-1458	LF	1" Galvanized Schedule 40 Grooved Pipe	27.02	12.27
23 21	13 23-1459	LF	1-1/4" Galvanized Schedule 40 Grooved Pipe	30.07	13.25
23 21	13 23-1460	LF	1-1/2" Galvanized Schedule 40 Grooved Pipe	34.23	15.08
23 21	13 23-1461	LF	2" Galvanized Schedule 40 Grooved Pipe	43.31	19.18
23 21	13 23-1462	LF	2-1/2" Galvanized Schedule 40 Grooved Pipe	60.56	26.23
23 21	13 23-1463	LF	3" Galvanized Schedule 40 Grooved Pipe	71.70	29.89
23 21	13 23-1464	LF	4" Galvanized Schedule 40 Grooved Pipe	87.96	33.27
23 21	13 23-1465	LF	5" Galvanized Schedule 40 Grooved Pipe	122.65	40.46
23 21	13 23-1466	LF	6" Galvanized Schedule 40 Grooved Pipe	165.94	58.36
23 21	13 23-1467	LF	8" Galvanized Schedule 40 Grooved Pipe	218.73	66.12
23 21	13 23-1468	LF	10" Galvanized Schedule 40 Grooved Pipe	306.21	78.95
23 21	13 23-1469	LF	12" Galvanized Schedule 40 Grooved Pipe	361.31	90.65
23 21 13 23-1470 Schedule 80 Galvanized Grooved Pipe (23 21 13 23-1411)					
23 21	13 23-1471	LF	3/4" Galvanized Schedule 80 Grooved Pipe	25.12	11.85
23 21	13 23-1472	LF	1" Galvanized Schedule 80 Grooved Pipe	32.32	12.55
23 21	13 23-1473	LF	1-1/4" Galvanized Schedule 80 Grooved Pipe	32.87	13.96
23 21	13 23-1474	LF	1-1/2" Galvanized Schedule 80 Grooved Pipe	42.74	16.63
23 21	13 23-1475	LF	2" Galvanized Schedule 80 Grooved Pipe	48.54	20.16
23 21	13 23-1476	LF	2-1/2" Galvanized Schedule 80 Grooved Pipe	68.58	27.77
23 21	13 23-1477	LF	3" Galvanized Schedule 80 Grooved Pipe	82.17	31.15
23 21	13 23-1478	LF	4" Galvanized Schedule 80 Grooved Pipe	102.65	33.98
23 21	13 23-1479	LF	5" Galvanized Schedule 80 Grooved Pipe	153.30	42.72
23 21	13 23-1480	LF	6" Galvanized Schedule 80 Grooved Pipe	199.58	61.19
23 21	13 23-1481	LF	8" Galvanized Schedule 80 Grooved Pipe	295.19	69.93
23 21	13 23-1482	LF	10" Galvanized Schedule 80 Grooved Pipe	351.50	84.45
23 21	13 23-1483	LF	12" Galvanized Schedule 80 Grooved Pipe	387.20	102.07
23 21 13 23-1484 Painted Grooved-Joint Pipe Fittings (23 21 13 23)					
Note: Couplings are not included with fittings.					
23 21 13 23-1485 Grooved Elbows (23 21 13 23-1484)					
23 21 13 23-1486 90 Degree Grooved Elbows (23 21 13 23-1485)					
Note: Victaulic No. 10					
23 21	13 23-1487	EA	3/4", Ductile Iron, Grooved 90 Degree Elbow	97.37	15.37
				24.53	
For Galvanized Fittings, Add					
23 21	13 23-1488	EA	1", Ductile Iron, Grooved 90 Degree Elbow	97.37	15.37
				24.53	
For Galvanized Fittings, Add					
23 21	13 23-1489	EA	1-1/4", Ductile Iron, Grooved 90 Degree Elbow	103.13	19.18
				24.53	
For Galvanized Fittings, Add					
23 21	13 23-1490	EA	1-1/2", Ductile Iron, Grooved 90 Degree Elbow	109.23	23.26
				24.53	
For Galvanized Fittings, Add					
23 21	13 23-1491	EA	2", Ductile Iron, Grooved 90 Degree Elbow	120.41	30.73
				24.53	
For Galvanized Fittings, Add					
23 21	13 23-1492	EA	2-1/2", Ductile Iron, Grooved 90 Degree Elbow	130.45	37.50
				24.53	
For Galvanized Fittings, Add					
23 21	13 23-1493	EA	3", Ductile Iron, Grooved 90 Degree Elbow	200.07	45.39
				43.57	
For Galvanized Fittings, Add					
23 21	13 23-1494	EA	4", Ductile Iron, Grooved 90 Degree Elbow	233.62	59.91
				47.46	
For Galvanized Fittings, Add					
23 21	13 23-1495	EA	5", Ductile Iron, Grooved 90 Degree Elbow	462.32	74.87
				115.53	
For Galvanized Fittings, Add					
23 21	13 23-1496	EA	6", Ductile Iron, Grooved 90 Degree Elbow	553.70	97.98
				134.26	
For Galvanized Fittings, Add					



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1497 EA 8", Ductile Iron, Grooved 90 Degree Elbow	1,031.11	116.59
For Galvanized Fittings, Add	282.57	
23 21 13 23-1498 EA 10", Ductile Iron, Grooved 90 Degree Elbow	1,538.06	136.04
For Galvanized Fittings, Add	440.25	
23 21 13 23-1499 EA 12", Ductile Iron, Grooved 90 Degree Elbow	2,383.10	163.26
For Galvanized Fittings, Add	705.65	
23 21 13 23-1500 EA 14", Steel, Grooved 90 Degree Elbow	4,723.31	184.26
For Galvanized Fittings, Add	1,467.51	
23 21 13 23-1501 EA 16", Steel, Grooved 90 Degree Elbow	6,124.86	204.00
For Galvanized Fittings, Add	1,920.25	
23 21 13 23-1502 EA 18", Steel, Grooved 90 Degree Elbow	7,714.22	222.89
For Galvanized Fittings, Add	2,435.44	
23 21 13 23-1503 EA 20", Steel, Grooved 90 Degree Elbow	10,045.81	231.77
For Galvanized Fittings, Add	3,200.41	
23 21 13 23-1504 EA 24", Steel, Grooved 90 Degree Elbow	14,366.77	274.07
For Galvanized Fittings, Add	4,605.47	
23 21 13 23-1505 45 Degree Grooved Elbows (23 21 13 23-1485)		
Note: Victaulic No. 11		
23 21 13 23-1506 EA 3/4", Ductile Iron, Grooved 45 Degree Elbow	97.32	15.37
For Galvanized Fittings, Add	17.83	
23 21 13 23-1507 EA 1", Ductile Iron, Grooved 45 Degree Elbow	97.32	15.37
For Galvanized Fittings, Add	17.83	
23 21 13 23-1508 EA 1-1/4", Ductile Iron, Grooved 45 Degree Elbow	103.08	19.18
For Galvanized Fittings, Add	17.83	
23 21 13 23-1509 EA 1-1/2", Ductile Iron, Grooved 45 Degree Elbow	109.18	23.26
For Galvanized Fittings, Add	17.83	
23 21 13 23-1510 EA 2", Ductile Iron, Grooved 45 Degree Elbow	120.36	30.73
For Galvanized Fittings, Add	17.83	
23 21 13 23-1511 EA 2-1/2", Ductile Iron, Grooved 45 Degree Elbow	130.40	37.50
For Galvanized Fittings, Add	17.83	
23 21 13 23-1512 EA 3", Ductile Iron, Grooved 45 Degree Elbow	200.02	45.39
For Galvanized Fittings, Add	31.68	
23 21 13 23-1513 EA 4", Ductile Iron, Grooved 45 Degree Elbow	233.62	59.91
For Galvanized Fittings, Add	34.52	
23 21 13 23-1514 EA 5", Ductile Iron, Grooved 45 Degree Elbow	462.32	74.87
For Galvanized Fittings, Add	84.02	
23 21 13 23-1515 EA 6", Ductile Iron, Grooved 45 Degree Elbow	553.70	97.98
For Galvanized Fittings, Add	97.64	
23 21 13 23-1516 EA 8", Ductile Iron, Grooved 45 Degree Elbow	1,031.11	116.59
For Galvanized Fittings, Add	205.51	
23 21 13 23-1517 EA 10", Ductile Iron, Grooved 45 Degree Elbow	1,538.06	136.04
For Galvanized Fittings, Add	320.18	
23 21 13 23-1518 EA 12", Ductile Iron, Grooved 45 Degree Elbow	2,383.10	163.26
For Galvanized Fittings, Add	513.20	
23 21 13 23-1519 EA 14", Steel, Grooved 45 Degree Elbow	4,723.31	184.26
For Galvanized Fittings, Add	1,067.28	
23 21 13 23-1520 EA 16", Steel, Grooved 45 Degree Elbow	6,124.86	204.00
For Galvanized Fittings, Add	1,396.54	
23 21 13 23-1521 EA 18", Steel, Grooved 45 Degree Elbow	7,714.22	222.89
For Galvanized Fittings, Add	1,771.23	
23 21 13 23-1522 EA 20", Steel, Grooved 45 Degree Elbow	10,046.42	232.20
For Galvanized Fittings, Add	2,327.57	
23 21 13 23-1523 EA 24", Steel, Grooved 45 Degree Elbow	14,366.77	274.07
For Galvanized Fittings, Add	3,349.44	
23 21 13 23-1524 22-1/2 Degree Grooved Elbows (23 21 13 23-1485)		
Note: Victaulic No. 12		
23 21 13 23-1525 EA 1", Ductile Iron, Grooved 22-1/2 Degree Elbow	102.21	15.37
For Galvanized Fittings, Add	19.00	
23 21 13 23-1526 EA 1-1/4", Ductile Iron, Grooved 22-1/2 Degree Elbow	107.97	19.18
For Galvanized Fittings, Add	19.00	
23 21 13 23-1527 EA 1-1/2", Ductile Iron, Grooved 22-1/2 Degree Elbow	114.07	23.26
For Galvanized Fittings, Add	19.00	
23 21 13 23-1528 EA 2", Ductile Iron, Grooved 22-1/2 Degree Elbow	125.25	30.73
For Galvanized Fittings, Add	19.00	
23 21 13 23-1529 EA 2-1/2", Ductile Iron, Grooved 22-1/2 Degree Elbow	135.29	37.50
For Galvanized Fittings, Add	19.00	
23 21 13 23-1530 EA 3", Ductile Iron, Grooved 22-1/2 Degree Elbow	183.82	45.39
For Galvanized Fittings, Add	27.79	
23 21 13 23-1531 EA 4", Ductile Iron, Grooved 22-1/2 Degree Elbow	245.06	59.91
For Galvanized Fittings, Add	37.26	
23 21 13 23-1532 EA 5", Ductile Iron, Grooved 22-1/2 Degree Elbow	593.71	74.87
For Galvanized Fittings, Add	115.55	
23 21 13 23-1533 EA 6", Ductile Iron, Grooved 22-1/2 Degree Elbow	586.69	97.98
For Galvanized Fittings, Add	105.56	
23 21 13 23-1534 EA 8", Ductile Iron, Grooved 22-1/2 Degree Elbow	1,095.12	116.59
For Galvanized Fittings, Add	220.87	
23 21 13 23-1535 EA 10", Steel, Grooved 22-1/2 Degree Elbow	1,467.42	136.04
For Galvanized Fittings, Add	303.23	
23 21 13 23-1536 EA 12", Steel, Grooved 22-1/2 Degree Elbow	1,952.84	163.26
For Galvanized Fittings, Add	409.94	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1537 EA 14", Steel, Grooved 22-1/2 Degree Elbow	2,249.19	184.26
<i>For Galvanized Fittings, Add</i>	473.49	
23 21 13 23-1538 EA 16", Steel, Grooved 22-1/2 Degree Elbow	2,672.12	204.00
<i>For Galvanized Fittings, Add</i>	567.89	
23 21 13 23-1539 EA 18", Steel, Grooved 22-1/2 Degree Elbow	3,199.75	222.89
<i>For Galvanized Fittings, Add</i>	687.75	
23 21 13 23-1540 EA 20", Steel, Grooved 22-1/2 Degree Elbow	3,735.54	231.77
<i>For Galvanized Fittings, Add</i>	813.11	
23 21 13 23-1541 EA 24", Steel, Grooved 22-1/2 Degree Elbow	4,963.46	274.07
<i>For Galvanized Fittings, Add</i>	1,092.64	
23 21 13 23-1542 11-1/4 Degree Grooved Elbows <small>(23 21 13 23-1485)</small>		
Note: Victaulic No. 13		
23 21 13 23-1543 EA 1", Ductile Iron, Grooved 11-1/4 Degree Elbow	102.21	15.37
<i>For Galvanized Fittings, Add</i>	19.00	
23 21 13 23-1544 EA 1-1/4", Ductile Iron, Grooved 11-1/4 Degree Elbow	107.97	19.18
<i>For Galvanized Fittings, Add</i>	19.00	
23 21 13 23-1545 EA 1-1/2", Ductile Iron, Grooved 11-1/4 Degree Elbow	114.07	23.26
<i>For Galvanized Fittings, Add</i>	19.00	
23 21 13 23-1546 EA 2", Ductile Iron, Grooved 11-1/4 Degree Elbow	125.25	30.73
<i>For Galvanized Fittings, Add</i>	19.00	
23 21 13 23-1547 EA 2-1/2", Ductile Iron, Grooved 11-1/4 Degree Elbow	135.29	37.50
<i>For Galvanized Fittings, Add</i>	19.00	
23 21 13 23-1548 EA 3", Ductile Iron, Grooved 11-1/4 Degree Elbow	183.81	45.39
<i>For Galvanized Fittings, Add</i>	27.79	
23 21 13 23-1549 EA 4", Ductile Iron, Grooved 11-1/4 Degree Elbow	245.05	59.91
<i>For Galvanized Fittings, Add</i>	37.26	
23 21 13 23-1550 EA 5", Ductile Iron, Grooved 11-1/4 Degree Elbow	593.69	74.87
<i>For Galvanized Fittings, Add</i>	115.55	
23 21 13 23-1551 EA 6", Ductile Iron, Grooved 11-1/4 Degree Elbow	586.67	97.98
<i>For Galvanized Fittings, Add</i>	105.56	
23 21 13 23-1552 EA 8", Ductile Iron, Grooved 11-1/4 Degree Elbow	1,095.07	116.59
<i>For Galvanized Fittings, Add</i>	220.86	
23 21 13 23-1553 EA 10", Steel, Grooved 11-1/4 Degree Elbow	1,467.34	136.04
<i>For Galvanized Fittings, Add</i>	303.21	
23 21 13 23-1554 EA 12", Steel, Grooved 11-1/4 Degree Elbow	1,952.75	163.26
<i>For Galvanized Fittings, Add</i>	409.92	
23 21 13 23-1555 EA 14", Steel, Grooved 11-1/4 Degree Elbow	2,249.10	184.26
<i>For Galvanized Fittings, Add</i>	473.46	
23 21 13 23-1556 EA 16", Steel, Grooved 11-1/4 Degree Elbow	2,672.04	204.14
<i>For Galvanized Fittings, Add</i>	567.85	
23 21 13 23-1557 EA 18", Steel, Grooved 11-1/4 Degree Elbow	3,199.56	222.89
<i>For Galvanized Fittings, Add</i>	687.72	
23 21 13 23-1558 EA 20", Steel, Grooved 11-1/4 Degree Elbow	3,735.35	231.77
<i>For Galvanized Fittings, Add</i>	813.06	
23 21 13 23-1559 EA 24", Steel, Grooved 11-1/4 Degree Elbow	4,963.21	274.07
<i>For Galvanized Fittings, Add</i>	1,092.58	
23 21 13 23-1560 90 Degree Grooved Long Radius Elbows <small>(23 21 13 23-1485)</small>		
Note: Victaulic No. 100		
23 21 13 23-1561 EA 2", Ductile Iron, Grooved 90 Degree Long Radius Elbow	216.01	30.73
<i>For Galvanized Fittings, Add</i>	40.78	
23 21 13 23-1562 EA 2-1/2", Ductile Iron, Grooved 90 Degree Long Radius Elbow	549.18	37.50
<i>For Galvanized Fittings, Add</i>	118.33	
23 21 13 23-1563 EA 3", Ductile Iron, Grooved 90 Degree Long Radius Elbow	237.96	45.39
<i>For Galvanized Fittings, Add</i>	40.78	
23 21 13 23-1564 EA 4", Ductile Iron, Grooved 90 Degree Long Radius Elbow	344.35	59.91
<i>For Galvanized Fittings, Add</i>	61.09	
23 21 13 23-1565 EA 5", Ductile Iron, Grooved 90 Degree Long Radius Elbow	1,416.95	74.87
<i>For Galvanized Fittings, Add</i>	313.13	
23 21 13 23-1566 EA 6", Ductile Iron, Grooved 90 Degree Long Radius Elbow	891.51	97.98
<i>For Galvanized Fittings, Add</i>	178.72	
23 21 13 23-1567 EA 8", Ductile Iron, Grooved, 90 Degree Long Radius Elbow	1,961.01	116.59
<i>For Galvanized Fittings, Add</i>	428.68	
23 21 13 23-1568 EA 10", Ductile Iron, Grooved 90 Degree Long Radius Elbow	3,907.46	136.04
<i>For Galvanized Fittings, Add</i>	888.84	
23 21 13 23-1569 EA 12", Ductile Iron, Grooved 90 Degree Long Radius Elbow	4,661.18	163.26
<i>For Galvanized Fittings, Add</i>	1,059.94	
23 21 13 23-1570 Grooved Tees, Wyes And Crosses <small>(23 21 13 23-1484)</small>		
23 21 13 23-1571 Grooved Tees <small>(23 21 13 23-1570)</small>		
Note: Victaulic No. 20		
23 21 13 23-1572 EA 3/4", Ductile Iron, Grooved Tee.....	143.89	20.16
<i>For Galvanized Fittings, Add</i>	34.07	
23 21 13 23-1573 EA 1", Ductile Iron, Grooved Tee.....	148.48	23.26
<i>For Galvanized Fittings, Add</i>	34.07	
23 21 13 23-1574 EA 1-1/4", Ductile Iron, Grooved Tee	156.24	28.48
<i>For Galvanized Fittings, Add</i>	34.07	
23 21 13 23-1575 EA 1-1/2", Ductile Iron, Grooved Tee	165.93	34.96
<i>For Galvanized Fittings, Add</i>	34.07	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1576 EA 2", Ductile Iron, Grooved Tee <i>For Galvanized Fittings, Add</i>	181.34 34.07	45.25
23 21 13 23-1577 EA 2-1/2", Ductile Iron, Grooved Tee <i>For Galvanized Fittings, Add</i>	196.72 34.07	55.41
23 21 13 23-1578 EA 3", Ductile Iron, Grooved Tee <i>For Galvanized Fittings, Add</i>	261.15 47.73	68.10
23 21 13 23-1579 EA 4", Ductile Iron, Grooved Tee <i>For Galvanized Fittings, Add</i>	376.10 73.22	88.11
23 21 13 23-1580 EA 5", Ductile Iron, Grooved Tee <i>For Galvanized Fittings, Add</i>	745.27 171.77	115.18
23 21 13 23-1581 EA 6", Ductile Iron, Grooved Tee <i>For Galvanized Fittings, Add</i>	877.73 198.53	144.08
23 21 13 23-1582 EA 8", Ductile Iron, Grooved Tee <i>For Galvanized Fittings, Add</i>	1,707.78 433.66	174.96
23 21 13 23-1583 EA 10", Ductile Iron, Grooved Tee <i>For Galvanized Fittings, Add</i>	2,887.27 774.40	204.00
23 21 13 23-1584 EA 12", Ductile Iron, Grooved Tee <i>For Galvanized Fittings, Add</i>	3,980.99 1,084.16	244.89
23 21 13 23-1585 EA 14", Steel, Grooved Tee <i>For Galvanized Fittings, Add</i>	4,350.31 1,182.71	272.09
23 21 13 23-1586 EA 16", Steel, Grooved Tee <i>For Galvanized Fittings, Add</i>	5,432.09 1,506.55	273.65
23 21 13 23-1587 EA 18", Steel, Grooved Tee <i>For Galvanized Fittings, Add</i>	6,741.53 1,886.71	301.84
23 21 13 23-1588 EA 20", Steel, Grooved Tee <i>For Galvanized Fittings, Add</i>	9,470.79 2,703.35	306.63
23 21 13 23-1589 EA 24", Steel, Grooved Tee <i>For Galvanized Fittings, Add</i>	14,410.08 4,153.58	376.70
23 21 13 23-1590 Grooved Wyes (90 Degree True Wye) <small>(23 21 13 23-1570)</small>		
Note: Victaulic No. 33		
23 21 13 23-1591 EA 1", Steel, Grooved Wye <i>For Galvanized Fittings, Add</i>	514.12 76.68	23.26
23 21 13 23-1592 EA 1-1/4", Steel, Grooved Wye <i>For Galvanized Fittings, Add</i>	521.88 76.68	28.48
23 21 13 23-1593 EA 1-1/2", Steel, Grooved Wye <i>For Galvanized Fittings, Add</i>	531.57 76.68	34.96
23 21 13 23-1594 EA 2", Steel, Grooved Wye <i>For Galvanized Fittings, Add</i>	546.98 76.68	45.25
23 21 13 23-1595 EA 2-1/2", Steel, Grooved Wye <i>For Galvanized Fittings, Add</i>	562.36 76.68	55.41
23 21 13 23-1596 EA 3", Steel, Grooved Wye <i>For Galvanized Fittings, Add</i>	674.88 91.65	68.10
23 21 13 23-1597 EA 4", Steel, Grooved Wye <i>For Galvanized Fittings, Add</i>	882.35 120.05	88.11
23 21 13 23-1598 EA 5", Steel, Grooved Wye <i>For Galvanized Fittings, Add</i>	1,248.15 172.07	115.18
23 21 13 23-1599 EA 6", Steel, Grooved Wye <i>For Galvanized Fittings, Add</i>	1,546.62 212.90	144.08
23 21 13 23-1600 EA 8", Steel, Grooved Wye <i>For Galvanized Fittings, Add</i>	2,178.74 306.64	174.96
23 21 13 23-1601 EA 10", Steel, Grooved Wye <i>For Galvanized Fittings, Add</i>	3,613.79 529.25	204.00
23 21 13 23-1602 EA 12", Steel, Grooved Wye <i>For Galvanized Fittings, Add</i>	4,021.53 584.70	244.89
23 21 13 23-1603 EA 14", Steel, Grooved Wye <i>For Galvanized Fittings, Add</i>	4,580.84 667.67	272.09
23 21 13 23-1604 EA 16", Steel, Grooved Wye <i>For Galvanized Fittings, Add</i>	5,829.91 867.21	273.37
23 21 13 23-1605 EA 18", Steel, Grooved Wye <i>For Galvanized Fittings, Add</i>	6,652.94 991.99	302.13
23 21 13 23-1606 EA 20", Steel, Grooved Wye <i>For Galvanized Fittings, Add</i>	9,450.92 1,438.72	306.07
23 21 13 23-1607 EA 24", Steel, Grooved Wye <i>For Galvanized Fittings, Add</i>	14,544.87 2,236.81	376.70
23 21 13 23-1608 Grooved Crosses <small>(23 21 13 23-1570)</small>		
Note: Victaulic No. 35		
23 21 13 23-1609 EA 3/4", Steel, Grooved Cross <i>For Galvanized Fittings, Add</i>	355.72 46.54	30.31
23 21 13 23-1610 EA 1", Steel, Grooved Cross <i>For Galvanized Fittings, Add</i>	362.61 46.54	34.96
23 21 13 23-1611 EA 1-1/4", Steel, Grooved Cross <i>For Galvanized Fittings, Add</i>	438.44 56.17	42.72
23 21 13 23-1612 EA 1-1/2", Steel, Grooved Cross <i>For Galvanized Fittings, Add</i>	482.04 60.53	52.44
23 21 13 23-1613 EA 2", Steel, Grooved Cross <i>For Galvanized Fittings, Add</i>	329.66 34.20	67.82
23 21 13 23-1614 EA 2-1/2", Steel, Grooved Cross <i>For Galvanized Fittings, Add</i>	352.75 34.20	83.18
23 21 13 23-1615 EA 3", Steel, Grooved Cross <i>For Galvanized Fittings, Add</i>	562.82 61.46	102.07

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1616 EA 4", Steel, Grooved Cross <i>For Galvanized Fittings, Add</i>	880.18 102.31	132.10
23 21 13 23-1617 EA 5", Steel, Grooved Cross <i>For Galvanized Fittings, Add</i>	1,652.50 209.02	172.70
23 21 13 23-1618 EA 6", Steel, Grooved Cross <i>For Galvanized Fittings, Add</i>	2,116.79 268.93	216.13
23 21 13 23-1619 EA 8", Steel, Grooved Cross <i>For Galvanized Fittings, Add</i>	2,754.53 354.18	262.36
23 21 13 23-1620 EA 10", Steel, Grooved Cross <i>For Galvanized Fittings, Add</i>	4,486.03 604.07	306.07
23 21 13 23-1621 EA 12", Steel, Grooved Cross <i>For Galvanized Fittings, Add</i>	6,362.14 871.72	367.40
23 21 13 23-1622 EA 14", Steel, Grooved Cross <i>For Galvanized Fittings, Add</i>	6,632.84 903.14	408.14
23 21 13 23-1623 EA 16", Steel, Grooved Cross <i>For Galvanized Fittings, Add</i>	8,491.79 1,181.46	410.54
23 21 13 23-1624 EA 18", Steel, Grooved Cross <i>For Galvanized Fittings, Add</i>	10,333.27 1,448.19	452.69
23 21 13 23-1625 EA 20", Steel, Grooved Cross <i>For Galvanized Fittings, Add</i>	14,367.12 2,051.67	459.74
23 21 13 23-1626 EA 24", Steel, Grooved Cross <i>For Galvanized Fittings, Add</i>	21,962.74 3,167.33	565.05
23 21 13 23-1627 Grooved Reducing Tees (23 21 13 23-1570) Note: Victaulic No. 25		
23 21 13 23-1628 EA 1", Steel, Grooved Reducing Tee <i>For Galvanized Fittings, Add</i>	254.05 43.83	23.26
23 21 13 23-1629 EA 1-1/4", Steel, Grooved Reducing Tee <i>For Galvanized Fittings, Add</i>	268.69 45.21	28.48
23 21 13 23-1630 EA 1-1/2", Steel, Grooved Reducing Tee <i>For Galvanized Fittings, Add</i>	284.01 46.33	34.96
23 21 13 23-1631 EA 2", Steel, Grooved Reducing Tee <i>For Galvanized Fittings, Add</i>	338.97 54.24	45.25
23 21 13 23-1632 EA 2-1/2", Steel, Grooved Reducing Tee <i>For Galvanized Fittings, Add</i>	382.26 59.82	55.41
23 21 13 23-1633 EA 3", Steel, Grooved Reducing Tee <i>For Galvanized Fittings, Add</i>	429.46 65.48	68.10
23 21 13 23-1634 EA 4", Steel, Grooved Reducing Tee <i>For Galvanized Fittings, Add</i>	573.60 88.31	88.11
23 21 13 23-1635 EA 5", Steel, Grooved Reducing Tee <i>For Galvanized Fittings, Add</i>	755.72 116.61	115.18
23 21 13 23-1636 EA 6", Steel, Grooved Reducing Tee <i>For Galvanized Fittings, Add</i>	1,036.15 164.04	144.08
23 21 13 23-1637 EA 8", Steel, Grooved Reducing Tee <i>For Galvanized Fittings, Add</i>	1,615.54 270.66	174.96
23 21 13 23-1638 EA 10", Steel, Grooved Reducing Tee <i>For Galvanized Fittings, Add</i>	2,300.99 399.01	204.00
23 21 13 23-1639 EA 12", Steel, Grooved Reducing Tee <i>For Galvanized Fittings, Add</i>	3,310.16 588.60	244.89
23 21 13 23-1640 EA 14", Steel, Grooved Reducing Tee <i>For Galvanized Fittings, Add</i>	3,750.56 668.53	272.09
23 21 13 23-1641 EA 16", Steel, Grooved Reducing Tee <i>For Galvanized Fittings, Add</i>	4,752.30 868.40	273.65
23 21 13 23-1642 EA 18", Steel, Grooved Reducing Tee <i>For Galvanized Fittings, Add</i>	5,768.14 1,063.14	301.84
23 21 13 23-1643 EA 20", Steel, Grooved Reducing Tee <i>For Galvanized Fittings, Add</i>	8,061.93 1,520.48	306.49
23 21 13 23-1644 EA 24", Steel, Grooved Reducing Tee <i>For Galvanized Fittings, Add</i>	12,810.73 2,449.18	376.70
23 21 13 23-1645 Grooved 45 Degree Lateral Wyes (23 21 13 23-1570) Note: Victaulic No. 30		
23 21 13 23-1646 EA 3/4", Steel, Grooved, 45 Degree Lateral Wye <i>For Galvanized Fittings, Add</i>	484.13 81.69	20.16
23 21 13 23-1647 EA 1", Steel, Grooved, 45 Degree Lateral Wye <i>For Galvanized Fittings, Add</i>	488.72 81.69	23.26
23 21 13 23-1648 EA 1-1/4", Steel, Grooved, 45 Degree Lateral Wye <i>For Galvanized Fittings, Add</i>	496.48 81.69	28.48
23 21 13 23-1649 EA 1-1/2", Steel, Grooved, 45 Degree Lateral Wye <i>For Galvanized Fittings, Add</i>	506.17 81.69	34.96
23 21 13 23-1650 EA 2", Steel, Grooved, 45 Degree Lateral Wye <i>For Galvanized Fittings, Add</i>	521.58 81.69	45.25
23 21 13 23-1651 EA 2-1/2", Steel, Grooved, 45 Degree Lateral Wye <i>For Galvanized Fittings, Add</i>	536.96 81.69	55.41
23 21 13 23-1652 EA 3", Steel, Grooved, 45 Degree Lateral Wye <i>For Galvanized Fittings, Add</i>	494.11 70.57	68.10
23 21 13 23-1653 EA 3-1/2", Steel, Grooved, 45 Degree Lateral Wye <i>For Galvanized Fittings, Add</i>	781.88 119.56	78.53
23 21 13 23-1654 EA 4", Steel, Grooved, 45 Degree Lateral Wye <i>For Galvanized Fittings, Add</i>	905.26 139.18	88.11
23 21 13 23-1655 EA 5", Steel, Grooved, 45 Degree Lateral Wye <i>For Galvanized Fittings, Add</i>	1,302.70 203.40	115.18



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1656 EA 6", Steel, Grooved, 45 Degree Lateral Wye.....	2,036.61	144.08
For Galvanized Fittings, Add	327.72	
23 21 13 23-1657 EA 8", Steel, Grooved, 45 Degree Lateral Wye.....	2,884.63	174.96
For Galvanized Fittings, Add	472.03	
23 21 13 23-1658 EA 10", Steel, Grooved, 45 Degree Lateral Wye.....	4,007.40	204.00
For Galvanized Fittings, Add	666.26	
23 21 13 23-1659 EA 12", Steel, Grooved, 45 Degree Lateral Wye.....	4,842.36	244.89
For Galvanized Fittings, Add	805.54	
23 21 13 23-1660 EA 14", Steel, Grooved, 45 Degree Lateral Wye.....	6,939.80	272.09
For Galvanized Fittings, Add	1,175.74	
23 21 13 23-1661 EA 16", Steel, Grooved, 45 Degree Lateral Wye.....	8,570.36	273.65
For Galvanized Fittings, Add	1,468.81	
23 21 13 23-1662 EA 18", Steel, Grooved, 45 Degree Lateral Wye.....	9,574.41	301.84
For Galvanized Fittings, Add	1,641.95	
23 21 13 23-1663 EA 20", Steel, Grooved, 45 Degree Lateral Wye.....	14,296.02	306.49
For Galvanized Fittings, Add	2,490.57	
23 21 13 23-1664 EA 24", Steel, Grooved, 45 Degree Lateral Wye.....	22,065.71	376.70
For Galvanized Fittings, Add	3,870.16	
23 21 13 23-1665 Grooved 45 Degree Lateral Reducing Wyes (23 21 13 23-1570)		
Note: Victaulic No. 30R		
23 21 13 23-1666 EA 3", Steel, Grooved 45 Degree Lateral Reducing Wye.....	494.11	68.10
For Galvanized Fittings, Add	50.97	
23 21 13 23-1667 EA 4", Steel, Grooved 45 Degree Lateral Reducing Wye.....	905.26	88.11
For Galvanized Fittings, Add	100.52	
23 21 13 23-1668 EA 5", Steel, Grooved 45 Degree Lateral Reducing Wye.....	1,302.70	115.18
For Galvanized Fittings, Add	146.90	
23 21 13 23-1669 EA 6", Steel, Grooved 45 Degree Lateral Reducing Wye.....	1,675.94	144.08
For Galvanized Fittings, Add	189.80	
23 21 13 23-1670 EA 8", Steel, Grooved 45 Degree Lateral Reducing Wye.....	2,369.85	174.96
For Galvanized Fittings, Add	273.99	
23 21 13 23-1671 EA 10", Steel, Grooved 45 Degree Lateral Reducing Wye.....	2,887.17	204.00
For Galvanized Fittings, Add	335.56	
23 21 13 23-1672 EA 12", Steel, Grooved 45 Degree Lateral Reducing Wye.....	3,503.96	244.89
For Galvanized Fittings, Add	407.79	
23 21 13 23-1673 EA 14", Steel, Grooved 45 Degree Lateral Reducing Wye.....	3,921.96	272.09
For Galvanized Fittings, Add	456.82	
23 21 13 23-1674 EA 16", Steel, Grooved 45 Degree Lateral Reducing Wye.....	4,952.49	273.65
For Galvanized Fittings, Add	590.48	
23 21 13 23-1675 EA 18", Steel, Grooved 45 Degree Lateral Reducing Wye.....	7,426.99	301.84
For Galvanized Fittings, Add	906.69	
23 21 13 23-1676 EA 20", Steel, Grooved 45 Degree Lateral Reducing Wye.....	10,668.43	306.49
For Galvanized Fittings, Add	1,327.16	
23 21 13 23-1677 EA 24", Steel, Grooved 45 Degree Lateral Reducing Wye.....	17,093.44	376.70
For Galvanized Fittings, Add	2,148.72	
23 21 13 23-1678 Mechanical-T Outlet (23 21 13 23-1570)		
Note: Includes making opening in pipe. Grooved or treaded branch outlets. Victaulic Styles 920 or 921.		
23 21 13 23-1679 EA 2" x 3/4" Mechanical-T Outlet With Threaded Branch Outlet.....	176.97	50.75
For Galvanized Fittings, Add	18.72	
23 21 13 23-1680 EA 2" x 1" Mechanical-T Outlet With Threaded Branch Outlet.....	176.97	50.75
For Galvanized Fittings, Add	18.72	
23 21 13 23-1681 EA 2" x 1-1/4" Mechanical-T Outlet With Threaded Branch Outlet.....	188.75	50.75
For Galvanized Fittings, Add	21.64	
23 21 13 23-1682 EA 2" x 1-1/2" Mechanical-T Outlet With Threaded Branch Outlet.....	188.75	50.75
23 21 13 23-1683 EA 2-1/2" x 3/4" Mechanical-T Outlet With Threaded Branch Outlet.....	189.66	57.10
23 21 13 23-1684 EA 2-1/2" x 1" Mechanical-T Outlet With Threaded Branch Outlet.....	189.66	57.10
23 21 13 23-1685 EA 2-1/2" x 1-1/4" Mechanical-T Outlet With Threaded Branch Outlet.....	220.77	57.10
23 21 13 23-1686 EA 3" x 3/4" Mechanical-T Outlet With Threaded Branch Outlet.....	213.79	63.44
23 21 13 23-1687 EA 3" x 1" Mechanical-T Outlet With Threaded Branch Outlet.....	213.79	63.44
23 21 13 23-1688 EA 3" x 1-1/4" Mechanical-T Outlet With Threaded Branch Outlet.....	238.83	63.44
23 21 13 23-1689 EA 3" x 1-1/2" Mechanical-T Outlet With Threaded Branch Outlet.....	238.83	63.44
23 21 13 23-1690 EA 3" x 2" Mechanical-T Outlet With Threaded Branch Outlet.....	255.98	63.44
23 21 13 23-1691 EA 4" x 3/4" Mechanical-T Outlet With Threaded Branch Outlet.....	279.99	84.59
23 21 13 23-1692 EA 4" x 1" Mechanical-T Outlet With Threaded Branch Outlet.....	279.99	84.59
23 21 13 23-1693 EA 4" x 1-1/4" Mechanical-T Outlet With Threaded Branch Outlet.....	299.54	84.59
23 21 13 23-1694 EA 4" x 1-1/2" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	305.03	84.59
23 21 13 23-1695 EA 4" x 2" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	305.03	84.59
23 21 13 23-1696 EA 4" x 2-1/2" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	310.52	84.59
23 21 13 23-1697 EA 4" x 3" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	321.04	84.59
23 21 13 23-1698 EA 5" x 1-1/2" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	399.46	116.30
23 21 13 23-1699 EA 5" x 2" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	399.46	116.30
23 21 13 23-1700 EA 5" x 2-1/2" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	408.95	116.30
23 21 13 23-1701 EA 5" x 3" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	420.84	116.30
23 21 13 23-1702 EA 6" x 1-1/2" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	466.79	148.03
23 21 13 23-1703 EA 6" x 2" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	466.79	148.03
23 21 13 23-1704 EA 6" x 2-1/2" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	480.74	148.03
23 21 13 23-1705 EA 6" x 3" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	492.52	148.03
23 21 13 23-1706 EA 6" x 4" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	513.44	148.03
23 21 13 23-1707 EA 8" x 2" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	694.04	195.97
23 21 13 23-1708 EA 8" x 2-1/2" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	694.04	195.97

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 20 HVAC Piping and Pumps

23 21 Hydronic Piping and Pumps



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-1709	EA	8" x 3" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	710.85	195.97
23 21	13 23-1710	EA	8" x 4" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	720.80	195.97
23 21	13 23-1711		Installation-Ready™ Grooved Fittings (23 21 13 23-1484)		
23 21	13 23-1712		Installation-Ready™ 90 Degree Grooved Elbows (23 21 13 23-1711) Note: Victaulic No. 101		
23 21	13 23-1713	EA	1-1/4" Ductile Iron, Grooved, Installation-Ready™ 90 Degree Elbow	266.94	13.96
			<i>For Galvanized Fittings, Add</i>	81.11	
			<i>For Galvanized Fittings, Add</i>	62.92	
23 21	13 23-1714	EA	1-1/2" Ductile Iron, Grooved, Installation-Ready™ 90 Degree Elbow	278.40	16.75
			<i>For Galvanized Fittings, Add</i>	83.50	
			<i>For Galvanized Fittings, Add</i>	64.77	
23 21	13 23-1715	EA	2" Ductile Iron, Grooved, Installation-Ready™ 90 Degree Elbow	288.67	22.33
			<i>For Galvanized Fittings, Add</i>	84.09	
			<i>For Galvanized Fittings, Add</i>	65.24	
23 21	13 23-1716	EA	2-1/2" Ductile Iron, Grooved, Installation-Ready™ 90 Degree Elbow	349.53	27.91
			<i>For Galvanized Fittings, Add</i>	101.39	
			<i>For Galvanized Fittings, Add</i>	78.65	
23 21	13 23-1717		Installation-Ready™ 45 Degree Grooved Elbows (23 21 13 23-1711) Note: Victaulic No. 103		
23 21	13 23-1718	EA	1-1/4" Ductile Iron, Grooved, Installation-Ready™ 45 Degree Elbow	266.94	13.96
			<i>For Galvanized Fittings, Add</i>	58.99	
			<i>For Galvanized Fittings, Add</i>	62.92	
23 21	13 23-1719	EA	1-1/2" Ductile Iron, Grooved, Installation-Ready™ 45 Degree Elbow	278.40	16.75
			<i>For Galvanized Fittings, Add</i>	60.72	
			<i>For Galvanized Fittings, Add</i>	64.77	
23 21	13 23-1720	EA	2" Ductile Iron, Grooved, Installation-Ready™ 45 Degree Elbow	288.67	22.33
			<i>For Galvanized Fittings, Add</i>	61.16	
			<i>For Galvanized Fittings, Add</i>	65.24	
23 21	13 23-1721	EA	2-1/2" Ductile Iron, Grooved, Installation-Ready™ 45 Degree Elbow	349.53	27.91
			<i>For Galvanized Fittings, Add</i>	73.74	
			<i>For Galvanized Fittings, Add</i>	78.65	
23 21	13 23-1722		Installation-Ready™ Grooved Tees (23 21 13 23-1711) Note: Victaulic No. 102		
23 21	13 23-1723	EA	1-1/4" Ductile Iron, Grooved, Installation-Ready™ Tee	407.73	18.61
			<i>For Galvanized Fittings, Add</i>	113.86	
			<i>For Galvanized Fittings, Add</i>	97.16	
23 21	13 23-1724	EA	1-1/2" Ductile Iron, Grooved, Installation-Ready™ Tee	426.02	22.33
			<i>For Galvanized Fittings, Add</i>	117.65	
			<i>For Galvanized Fittings, Add</i>	100.40	
23 21	13 23-1725	EA	2" Ductile Iron, Grooved, Installation-Ready™ Tee	442.71	29.78
			<i>For Galvanized Fittings, Add</i>	119.28	
			<i>For Galvanized Fittings, Add</i>	101.79	
23 21	13 23-1726	EA	2-1/2" Ductile Iron, Grooved, Installation-Ready™ Tee	515.44	37.22
			<i>For Galvanized Fittings, Add</i>	137.72	
			<i>For Galvanized Fittings, Add</i>	117.52	
23 21	13 23-1727		Grooved Fittings (23 21 13 23-1484)		
23 21	13 23-1728		Flanged Adapter Nipple, Grooved (23 21 13 23-1727) Note: Victaulic No. 41 and 45		
23 21	13 23-1729	EA	1" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	344.76	16.91
			<i>For Galvanized Fittings, Add</i>	57.49	
			<i>For 300 LB Rating, Add</i>	47.91	
23 21	13 23-1730	EA	1-1/4" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	347.58	18.75
			<i>For Galvanized Fittings, Add</i>	57.49	
			<i>For 300 LB Rating, Add</i>	47.91	
23 21	13 23-1731	EA	1-1/2" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	354.63	23.54
			<i>For Galvanized Fittings, Add</i>	57.49	
			<i>For 300 LB Rating, Add</i>	47.91	
23 21	13 23-1732	EA	2" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	369.46	33.42
			<i>For Galvanized Fittings, Add</i>	57.49	
			<i>For 300 LB Rating, Add</i>	47.91	
23 21	13 23-1733	EA	2-1/2" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	380.06	40.46
			<i>For Galvanized Fittings, Add</i>	57.49	
			<i>For 300 LB Rating, Add</i>	47.91	
23 21	13 23-1734	EA	3" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	481.09	48.36
			<i>For Galvanized Fittings, Add</i>	73.56	
			<i>For 300 LB Rating, Add</i>	61.30	
23 21	13 23-1735	EA	4" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	584.98	65.13
			<i>For Galvanized Fittings, Add</i>	87.73	
			<i>For 300 LB Rating, Add</i>	73.11	
23 21	13 23-1736	EA	5" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	814.59	78.81
			<i>For Galvanized Fittings, Add</i>	125.36	
			<i>For 300 LB Rating, Add</i>	104.46	
23 21	13 23-1737	EA	6" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	954.21	106.44
			<i>For Galvanized Fittings, Add</i>	143.03	
			<i>For 300 LB Rating, Add</i>	119.19	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1738 EA 8" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150..... <i>For Galvanized Fittings, Add</i> <i>For 300 LB Rating, Add</i>	1,312.77 197.42 164.92	144.08
23 21 13 23-1739 EA 10" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150..... <i>For Galvanized Fittings, Add</i> <i>For 300 LB Rating, Add</i>	2,052.06 322.17 268.47	174.96
23 21 13 23-1740 EA 12" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150..... <i>For Galvanized Fittings, Add</i> <i>For 300 LB Rating, Add</i>	2,753.18 440.50 367.08	204.00
23 21 13 23-1741 EA 14" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150..... <i>For Galvanized Fittings, Add</i> <i>For 300 LB Rating, Add</i>	3,253.09 519.47 432.89	244.89
23 21 13 23-1742 EA 16" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150..... <i>For Galvanized Fittings, Add</i> <i>For 300 LB Rating, Add</i>	4,852.35 800.00 666.66	272.09
23 21 13 23-1743 EA 18" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150..... <i>For Galvanized Fittings, Add</i> <i>For 300 LB Rating, Add</i>	5,832.22 939.66 783.05	408.14
23 21 13 23-1744 EA 20" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150..... <i>For Galvanized Fittings, Add</i> <i>For 300 LB Rating, Add</i>	6,175.56 979.43 816.19	489.77
23 21 13 23-1745 EA 24" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150..... <i>For Galvanized Fittings, Add</i> <i>For 300 LB Rating, Add</i>	10,202.75 1,689.64 1,408.03	544.19
23 21 13 23-1746 Grooved Concentric Reducers (23 21 13 23-1727) Note: Victaulic No. 50		
23 21 13 23-1747 EA 1-1/4" x 3/4", Grooved Concentric Reducer..... <i>For Galvanized Fittings, Add</i>	366.03 14.99	16.91
23 21 13 23-1748 EA 1-1/4" x 1", Grooved Concentric Reducer..... <i>For Galvanized Fittings, Add</i>	382.80 15.66	17.91
23 21 13 23-1749 EA 1-1/2" x 3/4", Grooved Concentric Reducer..... <i>For Galvanized Fittings, Add</i>	430.97 48.33	19.32
23 21 13 23-1750 EA 1-1/2" x 1", Grooved Concentric Reducer..... <i>For Galvanized Fittings, Add</i>	116.41 10.35	20.16
23 21 13 23-1751 EA 1-1/2" x 1-1/4", Grooved Concentric Reducer..... <i>For Galvanized Fittings, Add</i>	364.99 40.06	21.15
23 21 13 23-1752 EA 2" x 3/4", Grooved Concentric Reducer..... <i>For Galvanized Fittings, Add</i>	120.64 10.35	22.98
23 21 13 23-1753 EA 2" x 1", Grooved Concentric Reducer..... <i>For Galvanized Fittings, Add</i>	122.05 10.35	23.96
23 21 13 23-1754 EA 2" x 1-1/4", Grooved Concentric Reducer..... <i>For Galvanized Fittings, Add</i>	132.11 11.39	24.96
23 21 13 23-1755 EA 2" x 1-1/2", Grooved Concentric Reducer..... <i>For Galvanized Fittings, Add</i>	127.77 10.35	27.77
23 21 13 23-1756 EA 2-1/2" x 3/4", Grooved Concentric Reducer..... <i>For Galvanized Fittings, Add</i>	739.65 84.23	25.94
23 21 13 23-1757 EA 2-1/2" x 1", Grooved Concentric Reducer..... <i>For Galvanized Fittings, Add</i>	589.99 66.08	26.93
23 21 13 23-1758 EA 2-1/2" x 1-1/4", Grooved Concentric Reducer..... <i>For Galvanized Fittings, Add</i>	539.28 59.81	27.77
23 21 13 23-1759 EA 2-1/2" x 1-1/2", Grooved Concentric Reducer..... <i>For Galvanized Fittings, Add</i>	131.91 10.35	30.59
23 21 13 23-1760 EA 2-1/2" x 2", Grooved Concentric Reducer..... <i>For Galvanized Fittings, Add</i>	137.56 10.35	34.26
23 21 13 23-1761 EA 3" x 3/4", Grooved Concentric Reducer..... <i>For Galvanized Fittings, Add</i>	750.47 107.21	30.17
23 21 13 23-1762 EA 3" x 1", Grooved Concentric Reducer..... <i>For Galvanized Fittings, Add</i>	141.55 14.45	31.01
23 21 13 23-1763 EA 3" x 1-1/4", Grooved Concentric Reducer..... <i>For Galvanized Fittings, Add</i>	594.18 83.04	32.01
23 21 13 23-1764 EA 3" x 1-1/2", Grooved Concentric Reducer..... <i>For Galvanized Fittings, Add</i>	559.08 77.16	34.26
23 21 13 23-1765 EA 3" x 2", Grooved Concentric Reducer..... <i>For Galvanized Fittings, Add</i>	132.62 11.48	38.06
23 21 13 23-1766 EA 3" x 2-1/2", Grooved Concentric Reducer..... <i>For Galvanized Fittings, Add</i>	172.10 15.82	45.39
23 21 13 23-1767 EA 3-1/2" x 3", Grooved Concentric Reducer..... <i>For Galvanized Fittings, Add</i>	184.21 16.86	48.92
23 21 13 23-1768 EA 4" x 1", Grooved Concentric Reducer..... <i>For Galvanized Fittings, Add</i>	172.12 19.60	38.48
23 21 13 23-1769 EA 4" x 1-1/4", Grooved Concentric Reducer..... <i>For Galvanized Fittings, Add</i>	962.89 154.98	39.48
23 21 13 23-1770 EA 4" x 1-1/2", Grooved Concentric Reducer..... <i>For Galvanized Fittings, Add</i>	753.61 118.48	41.87
23 21 13 23-1771 EA 4" x 2", Grooved Concentric Reducer..... <i>For Galvanized Fittings, Add</i>	168.93 17.24	45.67
23 21 13 23-1772 EA 4" x 2-1/2", Grooved Concentric Reducer..... <i>For Galvanized Fittings, Add</i>	199.34 21.61	48.92
23 21 13 23-1773 EA 4" x 3", Grooved Concentric Reducer..... <i>For Galvanized Fittings, Add</i>	204.98 21.61	52.72
23 21 13 23-1774 EA 4" x 3-1/2", Grooved Concentric Reducer..... <i>For Galvanized Fittings, Add</i>	210.62 21.61	56.39

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1775 EA 5" x 2", Grooved Concentric Reducer	1,351.40	53.15
For Galvanized Fittings, Add	218.10	
23 21 13 23-1776 EA 5" x 2-1/2", Grooved Concentric Reducer	1,071.30	56.39
For Galvanized Fittings, Add	169.22	
23 21 13 23-1777 EA 5" x 3", Grooved Concentric Reducer	237.75	60.19
For Galvanized Fittings, Add	25.30	
23 21 13 23-1778 EA 5" x 4", Grooved Concentric Reducer	277.69	67.68
For Galvanized Fittings, Add	30.21	
23 21 13 23-1779 EA 6" x 1", Grooved Concentric Reducer	320.31	57.38
For Galvanized Fittings, Add	43.72	
23 21 13 23-1780 EA 6" x 1-1/2", Grooved Concentric Reducer	1,428.06	60.63
For Galvanized Fittings, Add	249.51	
23 21 13 23-1781 EA 6" x 2", Grooved Concentric Reducer	330.87	64.43
For Galvanized Fittings, Add	43.72	
23 21 13 23-1782 EA 6" x 2-1/2", Grooved Concentric Reducer	1,446.26	67.68
For Galvanized Fittings, Add	250.93	
23 21 13 23-1783 EA 6" x 3", Grooved Concentric Reducer	341.46	71.48
For Galvanized Fittings, Add	43.72	
23 21 13 23-1784 EA 6" x 4", Grooved Concentric Reducer	322.48	78.95
For Galvanized Fittings, Add	38.08	
23 21 13 23-1785 EA 6" x 5", Grooved Concentric Reducer	431.59	86.56
For Galvanized Fittings, Add	56.33	
23 21 13 23-1786 EA 8" x 3", Grooved Concentric Reducer	539.92	80.92
For Galvanized Fittings, Add	78.13	
23 21 13 23-1787 EA 8" x 4", Grooved Concentric Reducer	551.18	88.39
For Galvanized Fittings, Add	78.13	
23 21 13 23-1788 EA 8" x 5", Grooved Concentric Reducer	562.48	95.87
For Galvanized Fittings, Add	78.13	
23 21 13 23-1789 EA 8" x 6", Grooved Concentric Reducer	694.62	107.14
For Galvanized Fittings, Add	99.63	
23 21 13 23-1790 EA 10" x 4", Grooved Concentric Reducer	1,144.17	98.26
For Galvanized Fittings, Add	186.01	
23 21 13 23-1791 EA 10" x 5", Grooved Concentric Reducer	2,355.97	105.74
For Galvanized Fittings, Add	410.03	
23 21 13 23-1792 EA 10" x 6", Grooved Concentric Reducer	1,265.61	117.02
For Galvanized Fittings, Add	203.41	
23 21 13 23-1793 EA 10" x 8", Grooved Concentric Reducer	1,279.68	126.46
For Galvanized Fittings, Add	203.41	
23 21 13 23-1794 EA 12" x 4", Grooved Concentric Reducer	3,467.58	111.94
For Galvanized Fittings, Add	494.97	
23 21 13 23-1795 EA 12" x 6", Grooved Concentric Reducer	1,496.08	130.68
For Galvanized Fittings, Add	195.02	
23 21 13 23-1796 EA 12" x 8", Grooved Concentric Reducer	2,163.07	140.14
For Galvanized Fittings, Add	292.95	
23 21 13 23-1797 EA 12" x 10", Grooved Concentric Reducer	2,177.95	150.00
For Galvanized Fittings, Add	292.95	
23 21 13 23-1798 EA 14" x 6", Grooved Concentric Reducer	6,837.79	140.84
For Galvanized Fittings, Add	203.44	
23 21 13 23-1799 EA 14" x 8", Grooved Concentric Reducer	4,114.92	150.28
For Galvanized Fittings, Add	119.41	
23 21 13 23-1800 EA 14" x 10", Grooved Concentric Reducer	3,524.23	160.16
For Galvanized Fittings, Add	100.82	
23 21 13 23-1801 EA 14" x 12", Grooved Concentric Reducer	3,544.63	173.69
For Galvanized Fittings, Add	100.82	
23 21 13 23-1802 EA 16" x 8", Grooved Concentric Reducer	6,233.27	160.30
For Galvanized Fittings, Add	183.98	
23 21 13 23-1803 EA 16" x 10", Grooved Concentric Reducer	5,795.96	170.16
For Galvanized Fittings, Add	170.10	
23 21 13 23-1804 EA 16" x 12", Grooved Concentric Reducer	5,373.18	183.84
For Galvanized Fittings, Add	156.50	
23 21 13 23-1805 EA 16" x 14", Grooved Concentric Reducer	5,388.41	193.99
For Galvanized Fittings, Add	156.50	
23 21 13 23-1806 EA 18" x 10", Grooved Concentric Reducer	8,093.21	179.61
For Galvanized Fittings, Add	240.20	
23 21 13 23-1807 EA 18" x 12", Grooved Concentric Reducer	7,344.12	193.14
For Galvanized Fittings, Add	216.57	
23 21 13 23-1808 EA 18" x 14", Grooved Concentric Reducer	6,691.29	203.30
For Galvanized Fittings, Add	196.06	
23 21 13 23-1809 EA 18" x 16", Grooved Concentric Reducer	6,706.51	213.58
For Galvanized Fittings, Add	196.06	
23 21 13 23-1810 EA 20" x 10", Grooved Concentric Reducer	8,900.79	184.26
For Galvanized Fittings, Add	264.77	
23 21 13 23-1811 EA 20" x 12", Grooved Concentric Reducer	7,649.75	197.94
For Galvanized Fittings, Add	225.74	
23 21 13 23-1812 EA 20" x 14", Grooved Concentric Reducer	7,664.99	208.08
For Galvanized Fittings, Add	225.74	
23 21 13 23-1813 EA 20" x 16", Grooved Concentric Reducer	6,850.41	218.10
For Galvanized Fittings, Add	200.27	
23 21 13 23-1814 EA 20" x 18", Grooved Concentric Reducer	7,297.66	227.54
For Galvanized Fittings, Add	213.56	
23 21 13 23-1815 EA 24" x 10", Grooved Concentric Reducer	19,525.96	204.99
For Galvanized Fittings, Add	590.01	
23 21 13 23-1816 EA 24" x 12", Grooved Concentric Reducer	19,082.37	218.66
For Galvanized Fittings, Add	575.76	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1817 EA 24" x 14", Grooved Concentric Reducer	16,648.53	228.67
For Galvanized Fittings, Add	500.58	
23 21 13 23-1818 EA 24" x 16", Grooved Concentric Reducer	16,663.87	238.96
For Galvanized Fittings, Add	500.58	
23 21 13 23-1819 EA 24" x 18", Grooved Concentric Reducer	14,289.99	248.27
For Galvanized Fittings, Add	427.28	
23 21 13 23-1820 EA 24" x 20", Grooved Concentric Reducer	13,064.37	253.06
For Galvanized Fittings, Add	389.43	
23 21 13 23-1821 Grooved Eccentric Reducers (23 21 13 23-1827)		
Note: Victaulic No. 51		
23 21 13 23-1822 EA 1-1/2" x 3/4", Grooved Eccentric Reducer	444.85	19.32
For Galvanized Fittings, Add	50.00	
23 21 13 23-1823 EA 1-1/2" x 1", Grooved Eccentric Reducer	405.77	20.16
For Galvanized Fittings, Add	45.13	
23 21 13 23-1824 EA 1-1/2" x 1-1/4", Grooved Eccentric Reducer	399.00	21.15
For Galvanized Fittings, Add	44.15	
23 21 13 23-1825 EA 2" x 3/4", Grooved Eccentric Reducer	842.78	22.98
For Galvanized Fittings, Add	97.15	
23 21 13 23-1826 EA 2" x 1", Grooved Eccentric Reducer	450.53	23.96
For Galvanized Fittings, Add	49.83	
23 21 13 23-1827 EA 2" x 1-1/4", Grooved Eccentric Reducer	491.87	24.96
For Galvanized Fittings, Add	54.63	
23 21 13 23-1828 EA 2" x 1-1/2", Grooved Eccentric Reducer	422.13	27.77
For Galvanized Fittings, Add	45.73	
23 21 13 23-1829 EA 2-1/2" x 3/4", Grooved Eccentric Reducer	1,093.95	25.94
For Galvanized Fittings, Add	126.82	
23 21 13 23-1830 EA 2-1/2" x 1", Grooved Eccentric Reducer	1,023.22	26.93
For Galvanized Fittings, Add	118.15	
23 21 13 23-1831 EA 2-1/2" x 1-1/4", Grooved Eccentric Reducer	612.53	27.77
For Galvanized Fittings, Add	68.62	
23 21 13 23-1832 EA 2-1/2" x 1-1/2", Grooved Eccentric Reducer	498.16	30.59
For Galvanized Fittings, Add	54.37	
23 21 13 23-1833 EA 2-1/2" x 2", Grooved Eccentric Reducer	233.67	34.26
For Galvanized Fittings, Add	21.90	
23 21 13 23-1834 EA 3" x 1", Grooved Eccentric Reducer	1,100.83	31.01
For Galvanized Fittings, Add	126.74	
23 21 13 23-1835 EA 3" x 1-1/4", Grooved Eccentric Reducer	1,002.40	32.01
For Galvanized Fittings, Add	114.73	
23 21 13 23-1836 EA 3" x 1-1/2", Grooved Eccentric Reducer	574.66	34.26
For Galvanized Fittings, Add	62.89	
23 21 13 23-1837 EA 3" x 2", Grooved Eccentric Reducer	266.50	38.06
For Galvanized Fittings, Add	25.17	
23 21 13 23-1838 EA 3" x 2-1/2", Grooved Eccentric Reducer	277.43	45.39
For Galvanized Fittings, Add	25.17	
23 21 13 23-1839 EA 3-1/2" x 3", Grooved Eccentric Reducer	1,231.75	48.92
For Galvanized Fittings, Add	139.24	
23 21 13 23-1840 EA 4" x 1", Grooved Eccentric Reducer	2,194.99	38.48
For Galvanized Fittings, Add	366.53	
23 21 13 23-1841 EA 4" x 1-1/2", Grooved Eccentric Reducer	1,355.29	41.87
For Galvanized Fittings, Add	221.67	
23 21 13 23-1842 EA 4" x 2", Grooved Eccentric Reducer	324.41	45.67
For Galvanized Fittings, Add	43.91	
23 21 13 23-1843 EA 4" x 2-1/2", Grooved Eccentric Reducer	329.35	48.92
For Galvanized Fittings, Add	43.91	
23 21 13 23-1844 EA 4" x 3", Grooved Eccentric Reducer	334.99	52.72
For Galvanized Fittings, Add	43.91	
23 21 13 23-1845 EA 5" x 2", Grooved Eccentric Reducer	1,504.95	53.15
For Galvanized Fittings, Add	244.44	
23 21 13 23-1846 EA 5" x 2-1/2", Grooved Eccentric Reducer	1,298.89	56.39
For Galvanized Fittings, Add	208.25	
23 21 13 23-1847 EA 5" x 3", Grooved Eccentric Reducer	1,263.12	60.19
For Galvanized Fittings, Add	201.15	
23 21 13 23-1848 EA 5" x 4", Grooved Eccentric Reducer	450.24	67.68
For Galvanized Fittings, Add	59.81	
23 21 13 23-1849 EA 6" x 1", Grooved Eccentric Reducer	2,301.67	57.38
For Galvanized Fittings, Add	413.44	
23 21 13 23-1850 EA 6" x 2", Grooved Eccentric Reducer	2,117.16	64.43
For Galvanized Fittings, Add	377.04	
23 21 13 23-1851 EA 6" x 2-1/2", Grooved Eccentric Reducer	2,507.57	67.68
For Galvanized Fittings, Add	448.97	
23 21 13 23-1852 EA 6" x 3", Grooved Eccentric Reducer	571.45	71.48
For Galvanized Fittings, Add	86.64	
23 21 13 23-1853 EA 6" x 4", Grooved Eccentric Reducer	524.82	78.95
For Galvanized Fittings, Add	75.83	
23 21 13 23-1854 EA 6" x 5", Grooved Eccentric Reducer	617.21	86.56
For Galvanized Fittings, Add	90.97	
23 21 13 23-1855 EA 8" x 3", Grooved Eccentric Reducer	2,468.95	80.92
For Galvanized Fittings, Add	438.08	
23 21 13 23-1856 EA 8" x 4", Grooved Eccentric Reducer	2,184.26	88.39
For Galvanized Fittings, Add	382.86	
23 21 13 23-1857 EA 8" x 5", Grooved Eccentric Reducer	2,054.07	95.87
For Galvanized Fittings, Add	356.46	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1858 EA 8" x 6", Grooved Eccentric Reducer.....	984.77	107.14
For Galvanized Fittings, Add	153.77	
23 21 13 23-1859 EA 10" x 4", Grooved Eccentric Reducer.....	3,912.38	98.26
For Galvanized Fittings, Add	702.55	
23 21 13 23-1860 EA 10" x 5", Grooved Eccentric Reducer.....	3,705.84	105.74
For Galvanized Fittings, Add	661.91	
23 21 13 23-1861 EA 10" x 6", Grooved Eccentric Reducer.....	2,850.46	117.02
For Galvanized Fittings, Add	499.14	
23 21 13 23-1862 EA 10" x 8", Grooved Eccentric Reducer.....	2,453.59	126.46
For Galvanized Fittings, Add	422.46	
23 21 13 23-1863 EA 12" x 4", Grooved Eccentric Reducer.....	3,996.13	111.94
For Galvanized Fittings, Add	577.70	
23 21 13 23-1864 EA 12" x 6", Grooved Eccentric Reducer.....	3,769.41	130.68
For Galvanized Fittings, Add	539.24	
23 21 13 23-1865 EA 12" x 8", Grooved Eccentric Reducer.....	3,692.08	140.14
For Galvanized Fittings, Add	525.44	
23 21 13 23-1866 EA 12" x 10", Grooved Eccentric Reducer.....	3,343.79	150.00
For Galvanized Fittings, Add	470.64	
23 21 13 23-1867 EA 14" x 6", Grooved Eccentric Reducer.....	9,227.70	140.84
For Galvanized Fittings, Add	276.81	
23 21 13 23-1868 EA 14" x 8", Grooved Eccentric Reducer.....	5,989.82	150.28
For Galvanized Fittings, Add	176.97	
23 21 13 23-1869 EA 14" x 10", Grooved Eccentric Reducer.....	5,727.49	160.16
For Galvanized Fittings, Add	168.46	
23 21 13 23-1870 EA 14" x 12", Grooved Eccentric Reducer.....	5,747.89	173.69
For Galvanized Fittings, Add	168.46	
23 21 13 23-1871 EA 16" x 8", Grooved Eccentric Reducer.....	10,198.02	160.30
For Galvanized Fittings, Add	305.70	
23 21 13 23-1872 EA 16" x 10", Grooved Eccentric Reducer.....	9,456.80	170.16
For Galvanized Fittings, Add	282.49	
23 21 13 23-1873 EA 16" x 12", Grooved Eccentric Reducer.....	8,921.76	183.84
For Galvanized Fittings, Add	265.44	
23 21 13 23-1874 EA 16" x 14", Grooved Eccentric Reducer.....	8,936.99	193.99
For Galvanized Fittings, Add	265.44	
23 21 13 23-1875 EA 18" x 10", Grooved Eccentric Reducer.....	12,784.31	179.61
For Galvanized Fittings, Add	384.21	
23 21 13 23-1876 EA 18" x 12", Grooved Eccentric Reducer.....	12,041.25	193.14
For Galvanized Fittings, Add	360.78	
23 21 13 23-1877 EA 18" x 14", Grooved Eccentric Reducer.....	10,981.80	203.30
For Galvanized Fittings, Add	327.78	
23 21 13 23-1878 EA 18" x 16", Grooved Eccentric Reducer.....	10,997.02	213.58
For Galvanized Fittings, Add	327.78	
23 21 13 23-1879 EA 20" x 10", Grooved Eccentric Reducer.....	16,768.09	184.26
For Galvanized Fittings, Add	506.30	
23 21 13 23-1880 EA 20" x 12", Grooved Eccentric Reducer.....	12,495.54	197.94
For Galvanized Fittings, Add	374.51	
23 21 13 23-1881 EA 20" x 14", Grooved Eccentric Reducer.....	11,748.15	208.08
For Galvanized Fittings, Add	351.09	
23 21 13 23-1882 EA 20" x 16", Grooved Eccentric Reducer.....	11,578.13	218.10
For Galvanized Fittings, Add	345.41	
23 21 13 23-1883 EA 20" x 18", Grooved Eccentric Reducer.....	11,161.30	227.54
For Galvanized Fittings, Add	332.18	
23 21 13 23-1884 EA 24" x 12", Grooved Eccentric Reducer.....	24,201.93	218.66
For Galvanized Fittings, Add	732.93	
23 21 13 23-1885 EA 24" x 14", Grooved Eccentric Reducer.....	20,690.41	228.67
For Galvanized Fittings, Add	624.67	
23 21 13 23-1886 EA 24" x 16", Grooved Eccentric Reducer.....	20,705.75	238.96
For Galvanized Fittings, Add	624.67	
23 21 13 23-1887 EA 24" x 18", Grooved Eccentric Reducer.....	19,564.69	248.27
For Galvanized Fittings, Add	589.21	
23 21 13 23-1888 EA 24" x 20", Grooved Eccentric Reducer.....	17,893.55	253.06
For Galvanized Fittings, Add	537.69	
23 21 13 23-1889 Grooved, Close Nipple <small>(23 21 13 23-1727)</small>		
Note: Victaulic No. 143		
23 21 13 23-1890 EA 1-1/4" Ductile Iron, Grooved, Close Nipple.....	68.56	18.61
For Galvanized Fittings, Add	7.26	
For 300 LB Rating, Add	6.05	
For Galvanized Fittings, Add	10.33	
23 21 13 23-1891 EA 1-1/2" Ductile Iron, Grooved, Close Nipple.....	79.23	23.26
For Galvanized Fittings, Add	7.92	
For 300 LB Rating, Add	6.60	
For Galvanized Fittings, Add	11.26	
23 21 13 23-1892 EA 2" Ductile Iron, Grooved, Close Nipple.....	99.54	30.71
For Galvanized Fittings, Add	9.54	
For 300 LB Rating, Add	7.95	
For Galvanized Fittings, Add	13.57	
23 21 13 23-1893 EA 2-1/2" Ductile Iron, Grooved, Close Nipple.....	119.04	37.22
For Galvanized Fittings, Add	11.28	
For 300 LB Rating, Add	9.40	
For Galvanized Fittings, Add	16.04	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1894 Grooved Caps <small>(23 21 13 23-1727)</small>		
<i>Note: Victaulic No. 60</i>		
23 21 13 23-1895 EA 1" Carbon Steel Grooved Cap	147.12	5.78
23 21 13 23-1896 EA 1-1/4" Carbon Steel Grooved Cap	149.94	7.19
23 21 13 23-1897 EA 1-1/2" Carbon Steel Grooved Cap	153.04	8.74
23 21 13 23-1898 EA 2" Carbon Steel Grooved Cap	158.54	11.56
23 21 13 23-1899 EA 2-1/2" Carbon Steel Grooved Cap	163.62	14.10
23 21 13 23-1900 EA 3" Carbon Steel Grooved Cap	169.54	17.05
23 21 13 23-1901 EA 4" Carbon Steel Grooved Cap	189.40	22.56
23 21 13 23-1902 EA 5" Carbon Steel Grooved Cap	388.02	28.06
23 21 13 23-1903 EA 6" Carbon Steel Grooved Cap	404.90	36.79
23 21 13 23-1904 EA 8" Carbon Steel Grooved Cap	717.65	43.70
23 21 13 23-1905 EA 10" Carbon Steel Grooved Cap	1,201.08	51.03
23 21 13 23-1906 EA 12" Carbon Steel Grooved Cap	2,044.17	61.19
23 21 13 23-1907 Grooved Couplings <small>(23 21 13 23-1484)</small>		
23 21 13 23-1908 Flexible Grooved Coupling <small>(23 21 13 23-1907)</small>		
<i>Note: Victaulic Style 77</i>		
23 21 13 23-1909 EA 3/4" Grooved Standard Coupling	32.48	7.61
<i>For Galvanized Fittings, Add</i>		
	<i>5.87</i>	
23 21 13 23-1910 EA 1" Grooved Standard Coupling	32.48	7.61
<i>For Galvanized Fittings, Add</i>		
	<i>5.87</i>	
23 21 13 23-1911 EA 1-1/4" Grooved Standard Coupling	42.30	9.58
<i>For Galvanized Fittings, Add</i>		
	<i>7.81</i>	
23 21 13 23-1912 EA 1-1/2" Grooved Standard Coupling	47.69	11.42
<i>For Galvanized Fittings, Add</i>		
	<i>8.54</i>	
23 21 13 23-1913 EA 2" Grooved Standard Coupling	55.26	15.37
<i>For Galvanized Fittings, Add</i>		
	<i>9.02</i>	
23 21 13 23-1914 EA 2-1/2" Grooved Standard Coupling	66.64	18.75
<i>For Galvanized Fittings, Add</i>		
	<i>10.80</i>	
23 21 13 23-1915 EA 3" Grooved Standard Coupling	72.08	22.41
<i>For Galvanized Fittings, Add</i>		
	<i>10.80</i>	
23 21 13 23-1916 EA 3-1/2" Grooved Standard Coupling	101.53	26.23
<i>For Galvanized Fittings, Add</i>		
	<i>17.40</i>	
23 21 13 23-1917 EA 4" Grooved Standard Coupling	107.04	29.89
<i>For Galvanized Fittings, Add</i>		
	<i>17.40</i>	
23 21 13 23-1918 EA 5" Grooved Standard Coupling	151.39	37.50
<i>For Galvanized Fittings, Add</i>		
	<i>26.68</i>	
23 21 13 23-1919 EA 6" Grooved Standard Coupling	186.05	48.92
<i>For Galvanized Fittings, Add</i>		
	<i>31.53</i>	
23 21 13 23-1920 EA 8" Grooved Standard Coupling	270.98	58.36
<i>For Galvanized Fittings, Add</i>		
	<i>51.40</i>	
23 21 13 23-1921 EA 10" Grooved Standard Coupling	409.98	69.93
<i>For Galvanized Fittings, Add</i>		
	<i>85.43</i>	
23 21 13 23-1922 EA 12" Grooved Standard Coupling	462.10	76.55
<i>For Galvanized Fittings, Add</i>		
	<i>97.26</i>	
23 21 13 23-1923 EA 14" Grooved Standard Coupling	574.97	102.07
<i>For Galvanized Fittings, Add</i>		
	<i>118.16</i>	
23 21 13 23-1924 EA 16" Grooved Standard Coupling	737.09	122.51
<i>For Galvanized Fittings, Add</i>		
	<i>154.99</i>	
23 21 13 23-1925 EA 18" Grooved Standard Coupling	852.22	136.04
<i>For Galvanized Fittings, Add</i>		
	<i>181.51</i>	
23 21 13 23-1926 EA 20" Grooved Standard Coupling	1,249.27	153.11
<i>For Galvanized Fittings, Add</i>		
	<i>285.55</i>	
23 21 13 23-1927 EA 24" Grooved Standard Coupling	1,400.80	188.35
<i>For Galvanized Fittings, Add</i>		
	<i>313.15</i>	
23 21 13 23-1928 Zero-Flex® Rigid Coupling <small>(23 21 13 23-1907)</small>		
<i>Note: Victaulic Style 07</i>		
23 21 13 23-1929 EA 1" Grooved Rigid Coupling	40.68	7.61
<i>For Galvanized Fittings, Add</i>		
	<i>7.15</i>	
23 21 13 23-1930 EA 1-1/4" Grooved Rigid Coupling	43.57	9.58
<i>For Galvanized Fittings, Add</i>		
	<i>7.15</i>	
23 21 13 23-1931 EA 1-1/2" Grooved Rigid Coupling	46.37	11.42
<i>For Galvanized Fittings, Add</i>		
	<i>7.15</i>	
23 21 13 23-1932 EA 2" Grooved Rigid Coupling	52.96	15.37
<i>For Galvanized Fittings, Add</i>		
	<i>7.33</i>	
23 21 13 23-1933 EA 2-1/2" Grooved Rigid Coupling	62.56	18.75
<i>For Galvanized Fittings, Add</i>		
	<i>8.45</i>	
23 21 13 23-1934 EA 3" Grooved Rigid Coupling	68.00	22.41
<i>For Galvanized Fittings, Add</i>		
	<i>8.45</i>	
23 21 13 23-1935 EA 3-1/2" Grooved Rigid Coupling	79.69	26.23
<i>For Galvanized Fittings, Add</i>		
	<i>9.87</i>	
23 21 13 23-1936 EA 4" Grooved Rigid Coupling	102.01	29.89
<i>For Galvanized Fittings, Add</i>		
	<i>13.99</i>	
23 21 13 23-1937 EA 5" Grooved Rigid Coupling	130.29	37.50
<i>For Galvanized Fittings, Add</i>		
	<i>18.17</i>	
23 21 13 23-1938 EA 6" Grooved Rigid Coupling	172.57	48.92
<i>For Galvanized Fittings, Add</i>		
	<i>24.29</i>	

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 20 HVAC Piping and Pumps

23 21 Hydronic Piping and Pumps



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1939 EA 8" Grooved Rigid Coupling..... <i>For Galvanized Fittings, Add</i>	243.60 38.27	58.36
23 21 13 23-1940 EA 10" Grooved Rigid Coupling..... <i>For Galvanized Fittings, Add</i>	384.76 68.57	69.93
23 21 13 23-1941 EA 12" Grooved Rigid Coupling..... <i>For Galvanized Fittings, Add</i>	427.92 76.73	76.55
23 21 13 23-1942 EA 14" Grooved Rigid Coupling..... <i>For Galvanized Fittings, Add</i>	562.16 100.25	102.07
23 21 13 23-1943 EA 16" Grooved Rigid Coupling..... <i>For Galvanized Fittings, Add</i>	717.23 130.75	122.51
23 21 13 23-1944 EA 18" Grooved Rigid Coupling..... <i>For Galvanized Fittings, Add</i>	820.88 151.15	136.04
23 21 13 23-1945 EA 20" Grooved Rigid Coupling..... <i>For Galvanized Fittings, Add</i>	963.94 179.95	153.11
23 21 13 23-1946 EA 24" Grooved Rigid Coupling..... <i>For Galvanized Fittings, Add</i>	1,364.27 265.05	188.35
23 21 13 23-1947 Large Diameter Grooved Coupling (23 21 13 23-1907) Note: Victaulic Style 770		
23 21 13 23-1948 EA 28" Grooved Coupling..... <i>For Galvanized Fittings, Add</i>	1,354.30 181.75	37.50
23 21 13 23-1949 EA 30" Grooved Coupling..... <i>For Galvanized Fittings, Add</i>	1,568.04 209.25	48.92
23 21 13 23-1950 EA 32" Grooved Coupling..... <i>For Galvanized Fittings, Add</i>	2,325.69 313.36	58.36
23 21 13 23-1951 EA 36" Grooved Coupling..... <i>For Galvanized Fittings, Add</i>	3,086.82 417.47	69.93
23 21 13 23-1952 EA 42" Grooved Coupling..... <i>For Galvanized Fittings, Add</i>	6,145.41 844.30	76.55
23 21 13 23-1953 Flexible Coupling (23 21 13 23-1907) Note: Victaulic Style 75		
23 21 13 23-1954 EA 1-1/2" Grooved Flexible Coupling..... <i>For Galvanized Fittings, Add</i>	43.72 6.79	11.42
23 21 13 23-1955 EA 2" Grooved Flexible Coupling..... <i>For Galvanized Fittings, Add</i>	50.24 6.96	15.37
23 21 13 23-1956 EA 2-1/2" Grooved Flexible Coupling..... <i>For Galvanized Fittings, Add</i>	59.59 8.07	18.75
23 21 13 23-1957 EA 3" Grooved Flexible Coupling..... <i>For Galvanized Fittings, Add</i>	70.16 9.38	22.41
23 21 13 23-1958 EA 3-1/2" Grooved Flexible Coupling..... <i>For Galvanized Fittings, Add</i>	91.31 13.29	26.23
23 21 13 23-1959 EA 4" Grooved Flexible Coupling..... <i>For Galvanized Fittings, Add</i>	96.82 13.29	29.89
23 21 13 23-1960 EA 5" Grooved Flexible Coupling..... <i>For Galvanized Fittings, Add</i>	131.03 19.18	37.50
23 21 13 23-1961 EA 6" Grooved Flexible Coupling..... <i>For Galvanized Fittings, Add</i>	163.67 23.10	48.92
23 21 13 23-1962 EA 8" Grooved Flexible Coupling..... <i>For Galvanized Fittings, Add</i>	229.26 36.31	58.36
23 21 13 23-1963 Installation-Ready™ Coupling (23 21 13 23-1907) Note: Victaulic Style 009N		
23 21 13 23-1964 EA 1-1/4" Ductile Iron, Installation-Ready™ Coupling..... <i>For Galvanized Fittings, Add</i>	81.90 18.20	7.12
23 21 13 23-1965 EA 1-1/2" Ductile Iron, Installation-Ready™ Coupling..... <i>For Galvanized Fittings, Add</i>	85.47 18.58	8.52
23 21 13 23-1966 EA 2" Ductile Iron, Installation-Ready™ Coupling..... <i>For Galvanized Fittings, Add</i>	99.43 21.02	11.44
23 21 13 23-1967 EA 2-1/2" Ductile Iron, Installation-Ready™ Coupling..... <i>For Galvanized Fittings, Add</i>	115.57 24.21	13.87
23 21 13 23-1968 EA 3" Ductile Iron, Installation-Ready™ Coupling..... <i>For Galvanized Fittings, Add</i>	132.25 27.39	16.65
23 21 13 23-1969 EA 4" Ductile Iron, Installation-Ready™ Coupling..... <i>For Galvanized Fittings, Add</i>	183.97 38.47	22.24
23 21 13 23-1970 EA 5" Ductile Iron, Installation-Ready™ Coupling..... <i>For Galvanized Fittings, Add</i>	287.94 62.92	27.82
23 21 13 23-1971 EA 6" Ductile Iron, Installation-Ready™ Coupling..... <i>For Galvanized Fittings, Add</i>	348.81 75.18	36.38
23 21 13 23-1972 EA 8" Ductile Iron, Installation-Ready™ Coupling..... <i>For Galvanized Fittings, Add</i>	556.23 125.61	43.27
23 21 13 23-1973 Grooved Strainers And Suction Diffusers (23 21 13 23-1484)		
23 21 13 23-1974 Grooved Wye Strainers (23 21 13 23-1973) Note: Victaulic Style 732		
23 21 13 23-1975 EA 2" Grooved Wye Strainer.....	2,531.02	31.01
23 21 13 23-1976 EA 2-1/2" Grooved Wye Strainer.....	2,666.32	37.64
23 21 13 23-1977 EA 3" Grooved Wye Strainer.....	2,999.72	45.11
23 21 13 23-1978 EA 4" Grooved Wye Strainer.....	3,408.28	60.19



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1979 EA 5" Grooved Wye Strainer	4,919.31	75.29
23 21 13 23-1980 EA 6" Grooved Wye Strainer	5,365.52	97.84
23 21 13 23-1981 EA 8" Grooved Wye Strainer	8,175.30	116.59
23 21 13 23-1982 EA 10" Grooved Wye Strainer	13,065.08	136.33
23 21 13 23-1983 EA 12" Grooved Wye Strainer	22,712.08	163.68
23 21 13 23-1984 Grooved Tee Type Strainers (23 21 13 23-1973)		
Note: Victaulic Style 730		
23 21 13 23-1985 EA 1-1/2" Grooved Tee Type Strainer	1,952.49	23.54
23 21 13 23-1986 EA 2" Grooved Tee Type Strainer	2,500.35	31.01
23 21 13 23-1987 EA 2-1/2" Grooved Tee Type Strainer	2,634.44	37.64
23 21 13 23-1988 EA 3" Grooved Tee Type Strainer	2,963.71	45.11
23 21 13 23-1989 EA 4" Grooved Tee Type Strainer	3,367.45	60.19
23 21 13 23-1990 EA 5" Grooved Tee Type Strainer	4,859.87	75.29
23 21 13 23-1991 EA 6" Grooved Tee Type Strainer	5,301.43	97.84
23 21 13 23-1992 EA 8" Grooved Tee Type Strainer	8,076.06	116.59
23 21 13 23-1993 EA 10" Grooved Tee Type Strainer	11,809.08	136.33
23 21 13 23-1994 EA 12" Grooved Tee Type Strainer	15,183.69	163.68
23 21 13 23-1995 EA 14" Grooved Tee Type Strainer	53,523.91	184.26
23 21 13 23-1996 EA 16" Grooved Tee Type Strainer	66,484.84	204.00
23 21 13 23-1997 EA 18" Grooved Tee Type Strainer	87,378.68	222.89
23 21 13 23-1998 Grooved Suction Diffuser (23 21 13 23-1973)		
Note: Victaulic Style 731		
23 21 13 23-1999 EA 2-1/2" Grooved x 2" Flanged Suction Diffuser	5,147.46	34.82
23 21 13 23-2000 EA 3" Grooved x 2" Flanged Suction Diffuser	5,464.94	38.48
23 21 13 23-2001 EA 3" Grooved x 2-1/2" Flanged Suction Diffuser	3,954.90	45.11
23 21 13 23-2002 EA 3" Grooved x 3" Flanged Suction Diffuser	4,011.86	48.92
23 21 13 23-2003 EA 4" Grooved x 2-1/2" Flanged Suction Diffuser	4,344.22	48.92
23 21 13 23-2004 EA 4" Grooved x 3" Flanged Suction Diffuser	4,686.86	52.72
23 21 13 23-2005 EA 4" Grooved x 4" Flanged Suction Diffuser	5,415.84	52.72
23 21 13 23-2006 EA 5" Grooved x 4" Flanged Suction Diffuser	6,050.00	67.68
23 21 13 23-2007 EA 5" Grooved x 5" Flanged Suction Diffuser	6,357.50	71.48
23 21 13 23-2008 EA 6" Grooved x 4" Flanged Suction Diffuser	6,460.77	78.95
23 21 13 23-2009 EA 6" Grooved x 5" Flanged Suction Diffuser	7,716.69	86.56
23 21 13 23-2010 EA 6" Grooved x 6" Flanged Suction Diffuser	8,015.79	92.20
23 21 13 23-2011 EA 8" Grooved x 5" Flanged Suction Diffuser	8,225.24	95.87
23 21 13 23-2012 EA 8" Grooved x 6" Flanged Suction Diffuser	8,682.54	107.14
23 21 13 23-2013 EA 8" Grooved x 8" Flanged Suction Diffuser	14,839.81	116.59
23 21 13 23-2014 EA 10" Grooved x 8" Flanged Suction Diffuser	16,737.20	126.04
23 21 13 23-2015 EA 10" Grooved x 10" Flanged Suction Diffuser	20,135.92	130.68
23 21 13 23-2016 EA 12" Grooved x 10" Flanged Suction Diffuser	23,827.64	150.42
23 21 13 23-2017 EA 12" Grooved x 12" Flanged Suction Diffuser	33,069.66	159.88
23 21 13 23-2018 EA 14" Grooved x 10" Flanged Suction Diffuser	30,793.85	159.88
23 21 13 23-2019 EA 14" Grooved x 12" Flanged Suction Diffuser	34,391.17	173.97
23 21 13 23-2020 EA 14" Grooved x 14" Flanged Suction Diffuser	41,722.90	184.26
23 21 13 23-2021 EA 16" Grooved x 14" Flanged Suction Diffuser	42,955.01	193.70
23 21 13 23-2022 Grooved Steel Valves (23 21 13 23-1484)		
23 21 13 23-2023 Grooved Butterfly Valves With Standard Trim (23 21 13 23-2022)		
23 21 13 23-2024 EA 1-1/2" Butterfly Valve, Grooved, With Standard Trim	295.25	15.37
23 21 13 23-2025 EA 2" Butterfly Valve, Grooved, With Standard Trim	302.52	20.16
23 21 13 23-2026 EA 3" Butterfly Valve, Grooved, With Standard Trim	495.34	29.89
23 21 13 23-2027 EA 4" Butterfly Valve, Grooved, With Standard Trim	665.07	39.34
23 21 13 23-2028 EA 6" Butterfly Valve, Grooved, With Standard Trim	1,444.70	64.43
23 21 13 23-2029 EA 8" Butterfly Valve, Grooved, With Standard Trim	2,002.54	90.65
23 21 13 23-2030 EA 10" Butterfly Valve, Grooved, With Standard Trim	3,002.87	122.51
23 21 13 23-2031 Grooved Butterfly Valves With Stainless Steel Trim (23 21 13 23-2022)		
23 21 13 23-2032 EA 1-1/2" Butterfly Valve, Grooved, With Stainless Steel Trim	441.07	15.37
23 21 13 23-2033 EA 2" Butterfly Valve, Grooved, With Stainless Steel Trim	448.34	20.16
23 21 13 23-2034 EA 3" Butterfly Valve, Grooved, With Stainless Steel Trim	693.01	29.89
23 21 13 23-2035 EA 4" Butterfly Valve, Grooved, With Stainless Steel Trim	882.19	39.34
23 21 13 23-2036 EA 6" Butterfly Valve, Grooved, With Stainless Steel Trim	1,684.50	64.43
23 21 13 23-2037 EA 8" Butterfly Valve, Grooved, With Stainless Steel Trim	2,793.24	90.65
23 21 13 23-2038 EA 10" Butterfly Valve, Grooved, With Stainless Steel Trim	4,396.31	122.51
23 21 13 23-2039 Grooved Ball Valves With Standard Trim And Handle (23 21 13 23-2022)		
Note: Victaulic No. 721		
23 21 13 23-2040 EA 1-1/2" Ball Valve, Grooved, With Standard Trim	249.92	15.08
23 21 13 23-2041 EA 2" Ball Valve, Grooved, With Standard Trim	287.16	20.72
23 21 13 23-2042 EA 2-1/2" Ball Valve, Grooved, With Standard Trim	648.67	25.38
23 21 13 23-2043 EA 3" Ball Valve, Grooved, With Standard Trim	1,059.89	30.03
23 21 13 23-2044 EA 4" Ball Valve, Grooved, With Standard Trim	1,648.13	39.48
23 21 13 23-2045 EA 6" Ball Valve, Grooved, With Standard Trim	5,105.33	64.85

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2046 Grooved Ball Valves With Stainless Steel Trim And Handle <small>(23 21 13 23-2022)</small>		
Note: Victaulic No. 721		
23 21 13 23-2047 EA 1-1/2" Ball Valve, Grooved, With Stainless Steel Trim.....	265.89	15.08
23 21 13 23-2048 EA 2" Ball Valve, Grooved, With Stainless Steel Trim.....	452.95	20.72
23 21 13 23-2049 EA 2-1/2" Ball Valve, Grooved, With Stainless Steel Trim.....	1,171.44	25.38
23 21 13 23-2050 EA 3" Ball Valve, Grooved, With Stainless Steel Trim.....	1,513.94	30.03
23 21 13 23-2051 EA 4" Ball Valve, Grooved, With Stainless Steel Trim.....	2,067.72	39.48
23 21 13 23-2052 EA 6" Ball Valve, Grooved, With Stainless Steel Trim.....	5,625.26	64.85
23 21 13 23-2053 Grooved Check Valves <small>(23 21 13 23-2022)</small>		
Note: Victaulic No. 712		
23 21 13 23-2054 EA 2" Check Valve, Grooved.....	378.43	20.72
23 21 13 23-2055 EA 2-1/2" Check Valve, Grooved.....	611.81	25.38
23 21 13 23-2056 EA 3" Check Valve, Grooved.....	713.00	30.03
23 21 13 23-2057 EA 4" Check Valve, Grooved.....	1,009.64	39.48
23 21 13 23-2058 Grooved Vic-Check Check Valves <small>(23 21 13 23-2022)</small>		
Note: Victaulic No. 716		
23 21 13 23-2059 EA 2-1/2" "Vic-Check" Check Valve, Grooved.....	490.57	25.38
23 21 13 23-2060 EA 3" "Vic-Check" Check Valve, Grooved.....	497.43	30.03
23 21 13 23-2061 EA 4" "Vic-Check" Check Valve, Grooved.....	624.00	39.48
23 21 13 23-2062 EA 6" "Vic-Check" Check Valve, Grooved.....	1,212.39	64.85
23 21 13 23-2063 EA 8" "Vic-Check" Check Valve, Grooved.....	1,659.42	90.23
23 21 13 23-2064 EA 10" "Vic-Check" Check Valve, Grooved.....	4,595.19	122.23
23 21 13 23-2065 EA 12" "Vic-Check" Check Valve, Grooved.....	5,440.32	141.12
23 21 13 23-2066 Grooved Plug Valves With Lever Operator <small>(23 21 13 23-2022)</small>		
Note: Victaulic No. 377		
23 21 13 23-2067 EA 3" Balancing Plug Valve, Grooved, With Lever Handle.....	743.25	30.03
23 21 13 23-2068 EA 4" Balancing Plug Valve, Grooved, With Lever Handle.....	827.54	39.48
23 21 13 23-2069 EA 6" Balancing Plug Valve, Grooved, With Lever Handle.....	1,474.88	64.85
23 21 13 23-2070 Grooved Plug Valve With Gear Operator <small>(23 21 13 23-2022)</small>		
Note: Victaulic No. 377		
23 21 13 23-2071 EA 3" Balancing Plug Valve, Grooved, With Gear Operator.....	1,306.46	30.03
23 21 13 23-2072 EA 4" Balancing Plug Valve, Grooved, With Gear Operator.....	1,390.80	39.48
23 21 13 23-2073 EA 6" Balancing Plug Valve, Grooved, With Gear Operator.....	2,038.14	64.85
23 21 13 23-2074 EA 8" Balancing Plug Valve, Grooved, With Gear Operator.....	2,727.88	90.23
23 21 13 23-2075 EA 10" Balancing Plug Valve, Grooved, With Gear Operator.....	4,271.91	122.23
23 21 13 23-2076 EA 12" Balancing Plug Valve, Grooved, With Gear Operator.....	6,167.24	141.12
23 21 13 23-2077 Prepare Pipe For Groove <small>(23 21 13 23-1484)</small>		
23 21 13 23-2078 Cut Grooved Pipe <small>(23 21 13 23-2077)</small>		
Note: For use where connecting ungrooved pipe with grooved pipe, coupling to grooved pipe, or for field groove preparation on existing cut pipe.		
23 21 13 23-2079 EA Cut 3/4" Groove Pipe.....	14.77	
23 21 13 23-2080 EA Cut 1" Groove Pipe.....	16.04	
23 21 13 23-2081 EA Cut 1-1/4" Groove Pipe.....	18.10	
23 21 13 23-2082 EA Cut 1-1/2" Groove Pipe.....	19.69	
23 21 13 23-2083 EA Cut 2" Groove Pipe.....	21.59	
23 21 13 23-2084 EA Cut 2-1/2" Groove Pipe.....	23.38	
23 21 13 23-2085 EA Cut 3" Groove Pipe.....	25.51	
23 21 13 23-2086 EA Cut 3-1/2" Groove Pipe.....	27.05	
23 21 13 23-2087 EA Cut 4" Groove Pipe.....	28.78	
23 21 13 23-2088 EA Cut 5" Groove Pipe.....	31.18	
23 21 13 23-2089 EA Cut 6" Groove Pipe.....	32.07	
23 21 13 23-2090 EA Cut 8" Groove Pipe.....	41.57	
23 21 13 23-2091 EA Cut 10" Groove Pipe.....	59.08	
23 21 13 23-2092 EA Cut 12" Groove Pipe.....	74.83	
23 21 13 23-2093 EA Cut 14" Groove Pipe.....	112.24	
23 21 13 23-2094 EA Cut 16" Groove Pipe.....	118.16	
23 21 13 23-2095 EA Cut 18" Groove Pipe.....	124.72	
23 21 13 23-2096 EA Cut 20" Groove Pipe.....	132.05	
23 21 13 23-2097 EA Cut 24" Groove Pipe.....	149.66	
23 21 13 23-2098 Roll Grooved Pipe <small>(23 21 13 23-2077)</small>		
Note: For use where connecting ungrooved pipe with grooved pipe, coupling to grooved pipe, or for field groove preparation on existing cut pipe.		
23 21 13 23-2099 EA Roll 3/4" Groove.....	8.44	
23 21 13 23-2100 EA Roll 1" Groove.....	9.84	
23 21 13 23-2101 EA Roll 1-1/4" Groove.....	11.22	
23 21 13 23-2102 EA Roll 1-1/2" Groove.....	12.61	
23 21 13 23-2103 EA Roll 2" Groove.....	19.36	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-2104	EA	Roll 2-1/2" Groove	20.41	
23 21	13 23-2105	EA	Roll 3" Groove	22.44	
23 21	13 23-2106	EA	Roll 3-1/2" Groove	23.88	
23 21	13 23-2107	EA	Roll 4" Groove	26.10	
23 21	13 23-2108	EA	Roll 5" Groove	26.73	
23 21	13 23-2109	EA	Roll 6" Groove	28.07	
23 21	13 23-2110	EA	Roll 8" Groove	34.02	
23 21	13 23-2111	EA	Roll 10" Groove	38.70	
23 21	13 23-2112	EA	Roll 12" Groove	48.80	
23 21	13 23-2113	EA	Roll 14" Groove	74.83	
23 21	13 23-2114	EA	Roll 16" Groove	80.17	
23 21	13 23-2115	EA	Roll 18" Groove	83.14	
23 21	13 23-2116	EA	Roll 20" Groove	89.80	
23 21	13 23-2117	EA	Roll 24" Groove	97.60	
23 21 13 23-2118 Standard Gaskets (23 21 13 23-2077)					
Note: For use on replacement of existing gaskets.					
23 21	13 23-2119	EA	3/4" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T"	21.00	
23 21	13 23-2120	EA	1" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T"	22.18	
23 21	13 23-2121	EA	1-1/4" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T"	23.39	
23 21	13 23-2122	EA	1-1/2" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T"	25.73	
23 21	13 23-2123	EA	2" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T"	26.57	
23 21	13 23-2124	EA	2-1/2" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T"	30.65	
23 21	13 23-2125	EA	3" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T"	33.74	
23 21	13 23-2126	EA	3-1/2" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T"	40.91	
23 21	13 23-2127	EA	4" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T"	41.59	
23 21	13 23-2128	EA	5" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T"	50.71	
23 21	13 23-2129	EA	6" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T"	54.40	
23 21	13 23-2130	EA	8" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T"	73.26	
23 21	13 23-2131	EA	10" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T"	90.93	
23 21	13 23-2132	EA	12" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T"	108.07	
23 21	13 23-2133	EA	14" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T"	151.68	
23 21	13 23-2134	EA	16" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T"	198.80	
23 21	13 23-2135	EA	18" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T"	233.21	
23 21	13 23-2136	EA	20" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T"	339.04	
23 21	13 23-2137	EA	24" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T"	460.36	
23 21 13 23-2138 Copper Grooved-Joint Pipe Fittings (23 21 13 23)					
Note: Couplings are not included with fittings.					
23 21 13 23-2139 Grooved Fittings (23 21 13 23-2138)					
23 21 13 23-2140 Grooved 90 Degree Elbows (23 21 13 23-2139)					
23 21	13 23-2141	EA	2" Copper 90 Degree Elbow, Grooved	125.86	22.98
23 21	13 23-2142	EA	2-1/2" Copper 90 Degree Elbow, Grooved	142.46	28.06
23 21	13 23-2143	EA	3" Copper 90 Degree Elbow, Grooved	188.98	33.98
23 21	13 23-2144	EA	4" Copper 90 Degree Elbow, Grooved	367.41	44.83
23 21	13 23-2145	EA	5" Copper 90 Degree Elbow, Grooved	899.14	56.11
23 21	13 23-2146	EA	6" Copper 90 Degree Elbow, Grooved	1,402.62	73.45
23 21	13 23-2147	EA	8" Copper 90 Degree Elbow, Grooved	2,532.28	87.40
23 21 13 23-2148 Grooved 45 Degree Elbows (23 21 13 23-2139)					
23 21	13 23-2149	EA	2" Copper 45 Degree Elbow, Grooved	125.86	22.98
23 21	13 23-2150	EA	2-1/2" Copper 45 Degree Elbow, Grooved	142.46	28.06
23 21	13 23-2151	EA	3" Copper 45 Degree Elbow, Grooved	188.98	33.98
23 21	13 23-2152	EA	4" Copper 45 Degree Elbow, Grooved	367.41	44.83
23 21	13 23-2153	EA	5" Copper 45 Degree Elbow, Grooved	899.14	56.11
23 21	13 23-2154	EA	6" Copper 45 Degree Elbow, Grooved	1,402.62	73.45
23 21	13 23-2155	EA	8" Copper 45 Degree Elbow, Grooved	2,532.28	87.40
23 21 13 23-2156 Grooved Tees (23 21 13 23-2139)					
23 21	13 23-2157	EA	2" Copper Tee, Grooved	198.55	33.84
23 21	13 23-2158	EA	2-1/2" Copper Tee, Grooved	221.94	41.59
23 21	13 23-2159	EA	3" Copper Tee, Grooved	308.61	51.03
23 21	13 23-2160	EA	4" Copper Tee, Grooved	584.89	65.98
23 21	13 23-2161	EA	5" Copper Tee, Grooved	2,165.38	86.28
23 21	13 23-2162	EA	6" Copper Tee, Grooved	1,781.41	107.99
23 21	13 23-2163	EA	8" Copper Tee, Grooved	3,057.58	131.12
23 21 13 23-2164 Grooved Reducing Tees (23 21 13 23-2139)					
23 21	13 23-2165	EA	2-1/2" Copper Tee, Reducing, Grooved	290.06	41.59
23 21	13 23-2166	EA	3" Copper Tee, Reducing, Grooved	453.25	51.03
23 21	13 23-2167	EA	4" Copper Tee, Reducing, Grooved	726.97	66.12
23 21	13 23-2168	EA	5" Copper Tee, Reducing, Grooved	1,988.41	86.42
23 21	13 23-2169	EA	6" Copper Tee, Reducing, Grooved	2,432.79	107.99

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2170 Grooved X Cup Reducing Tees (23 21 13 23-2139)		
23 21 13 23-2171 EA 2" Copper Tee, Reducing, Grooved X Cup.....	234.98	33.84
23 21 13 23-2172 EA 2-1/2" Copper Tee, Reducing, Grooved X Cup.....	290.80	41.59
23 21 13 23-2173 EA 3" Copper Tee, Reducing, Grooved X Cup.....	486.03	51.03
23 21 13 23-2174 EA 4" Copper Tee, Reducing, Grooved X Cup.....	726.97	65.98
23 21 13 23-2175 Grooved Flanged Adapter Nipples (23 21 13 23-2139)		
23 21 13 23-2176 EA 2" Copper Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150	394.28	24.96
23 21 13 23-2177 EA 2-1/2" Copper Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150	419.11	30.31
23 21 13 23-2178 EA 3" Copper Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150	447.92	36.23
23 21 13 23-2179 EA 4" Copper Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150	509.25	48.78
23 21 13 23-2180 EA 5" Copper Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150	671.51	59.07
23 21 13 23-2181 EA 6" Copper Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150	761.75	79.79
23 21 13 23-2182 Grooved Concentric Reducers (23 21 13 23-2139)		
23 21 13 23-2183 EA 2-1/2" x 2" Copper Concentric Reducer, Grooved	165.85	25.66
23 21 13 23-2184 EA 3" x 2" Copper Concentric Reducer, Grooved	171.49	28.62
23 21 13 23-2185 EA 3" x 2-1/2" Copper Concentric Reducer, Grooved	182.42	33.98
23 21 13 23-2186 EA 4" x 2" Copper Concentric Reducer, Grooved	302.28	34.26
23 21 13 23-2187 EA 4" x 2-1/2" Copper Concentric Reducer, Grooved	307.22	36.65
23 21 13 23-2188 EA 4" x 3" Copper Concentric Reducer, Grooved	312.86	39.48
23 21 13 23-2189 EA 5" x 3" Copper Concentric Reducer, Grooved	748.17	45.11
23 21 13 23-2190 EA 5" x 4" Copper Concentric Reducer, Grooved	759.45	50.75
23 21 13 23-2191 EA 6" x 3" Copper Concentric Reducer, Grooved	819.38	53.58
23 21 13 23-2192 EA 6" x 4" Copper Concentric Reducer, Grooved	830.65	59.21
23 21 13 23-2193 EA 6" x 5" Copper Concentric Reducer, Grooved	841.94	64.85
23 21 13 23-2194 EA 8" x 6" Copper Concentric Reducer, Grooved	1,410.67	80.36
23 21 13 23-2195 Grooved X Cup Concentric Reducers (23 21 13 23-2139)		
23 21 13 23-2196 EA 2" x 1" Copper Concentric Reducer, Grooved X Cup.....	130.68	18.05
23 21 13 23-2197 EA 2" x 1-1/4" Copper Concentric Reducer, Grooved X Cup	132.09	18.75
23 21 13 23-2198 EA 2" x 1-1/2" Copper Concentric Reducer, Grooved X Cup	136.40	20.87
23 21 13 23-2199 EA 2-1/2" x 1" Copper Concentric Reducer, Grooved X Cup	156.14	20.16
23 21 13 23-2200 EA 2-1/2" x 1-1/4" Copper Concentric Reducer, Grooved X Cup	157.53	20.87
23 21 13 23-2201 EA 2-1/2" x 1-1/2" Copper Concentric Reducer, Grooved X Cup	161.67	22.98
23 21 13 23-2202 EA 2-1/2" x 2" Copper Concentric Reducer, Grooved X Cup	167.32	25.66
23 21 13 23-2203 EA 3" x 1-1/2" Copper Concentric Reducer, Grooved X Cup	195.35	25.66
23 21 13 23-2204 EA 3" x 2" Copper Concentric Reducer, Grooved X Cup.....	200.99	28.62
23 21 13 23-2205 EA 4" x 2" Copper Concentric Reducer, Grooved X Cup.....	335.43	34.12
23 21 13 23-2206 Grooved Standard Couplings (23 21 13 23-2139)		
23 21 13 23-2207 EA 2" Copper Standard Coupling, Grooved	50.55	11.56
23 21 13 23-2208 EA 2-1/2" Copper Standard Coupling, Grooved	59.60	14.10
23 21 13 23-2209 EA 3" Copper Standard Coupling, Grooved	68.21	16.77
23 21 13 23-2210 EA 4" Copper Standard Coupling, Grooved	98.01	22.56
23 21 13 23-2211 EA 5" Copper Standard Coupling, Grooved	146.48	28.06
23 21 13 23-2212 EA 6" Copper Standard Coupling, Grooved	192.78	36.65
23 21 13 23-2213 EA 8" Copper Standard Coupling, Grooved	273.20	43.70
23 21 13 23-2214 Grooved Caps (23 21 13 23-2139)		
23 21 13 23-2215 EA 2" Copper Cap, Grooved	78.04	11.56
23 21 13 23-2216 EA 2-1/2" Copper Cap, Grooved	109.68	14.10
23 21 13 23-2217 EA 3" Copper Cap, Grooved	134.78	16.77
23 21 13 23-2218 EA 4" Copper Cap, Grooved	196.82	22.41
23 21 13 23-2219 EA 5" Copper Cap, Grooved	325.48	28.06
23 21 13 23-2220 EA 6" Copper Cap, Grooved	383.45	36.65
23 21 13 23-2221 Grooved Valves (23 21 13 23-2138)		
23 21 13 23-2222 Grooved Butterfly Valves, Standard Trim, Without Operator (23 21 13 23-2221)		
Note: Copper body.		
23 21 13 23-2223 EA 2" Butterfly Valve, Grooved, With Standard Trim, Without Operator, Copper Body.....	485.81	15.08
For Chain Wheel, Add	43.45	
For Valve Bracket Insulation, Add	38.20	
23 21 13 23-2224 EA 3" Butterfly Valve, Grooved, With Standard Trim, Without Operator, Copper Body.....	555.09	22.41
For Chain Wheel, Add	43.45	
For Valve Bracket Insulation, Add	38.20	
23 21 13 23-2225 EA 4" Butterfly Valve, Grooved, With Standard Trim, Without Operator, Copper Body.....	733.70	29.46
For Chain Wheel, Add	43.45	
For Valve Bracket Insulation, Add	38.20	
23 21 13 23-2226 EA 6" Butterfly Valve, Grooved, With Standard Trim, Without Operator, Copper Body.....	983.35	48.36
For Chain Wheel, Add	43.45	
For Valve Bracket Insulation, Add	38.20	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2227 EA 8" Butterfly Valve, Grooved, With Standard Trim, Without Operator, Copper Body..... <i>For Chain Wheel, Add</i> <i>For Valve Bracket Insulation, Add</i>	1,091.19 43.45 38.20	67.96
23 21 13 23-2228 Grooved Butterfly Valves, Standard Trim, With Operator <small>(23 21 13 23-2221)</small> Note: Copper body.		
23 21 13 23-2229 EA 2" Butterfly Valve, Grooved, With Standard Trim, With Operator, Copper Body..... <i>For Chain Wheel, Add</i> <i>For Valve Bracket Insulation, Add</i>	591.87 43.45 38.20	15.08
23 21 13 23-2230 EA 3" Butterfly Valve, Grooved, With Standard Trim, With Operator, Copper Body..... <i>For Chain Wheel, Add</i> <i>For Valve Bracket Insulation, Add</i>	661.22 43.45 38.20	22.41
23 21 13 23-2231 EA 4" Butterfly Valve, Grooved, With Standard Trim, With Operator, Copper Body..... <i>For Chain Wheel, Add</i> <i>For Valve Bracket Insulation, Add</i>	839.83 43.45 38.20	29.46
23 21 13 23-2232 EA 6" Butterfly Valve, Grooved, With Standard Trim, With Operator, Copper Body..... <i>For Chain Wheel, Add</i> <i>For Valve Bracket Insulation, Add</i>	1,089.55 43.45 38.20	48.36
23 21 13 23-2233 EA 8" Butterfly Valve, Grooved, With Standard Trim, With Operator, Copper Body..... <i>For Chain Wheel, Add</i> <i>For Valve Bracket Insulation, Add</i>	1,197.32 43.45 38.20	67.96
23 21 13 23-2234 Polyvinyl Chloride (PVC) Pressure Pipe And Fittings <small>(23 21 13 23)</small> Note: Socket or back weld.		
23 21 13 23-2235 Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe And Fittings <small>(23 21 13 23-2234)</small> Note: ASTM D1785 with D2466 fittings.		
23 21 13 23-2236 Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe <small>(23 21 13 23-2235)</small>		
23 21 13 23-2237 LF 1/2" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	6.93 1.82	4.03
23 21 13 23-2238 LF 3/4" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	8.69 2.27	5.04
23 21 13 23-2239 LF 1" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	9.68 2.42	5.37
23 21 13 23-2240 LF 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	10.81 2.60	5.78
23 21 13 23-2241 LF 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	11.25 2.64	5.88
23 21 13 23-2242 LF 2" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	13.88 3.17	7.04
23 21 13 23-2243 LF 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	17.79 3.76	8.36
23 21 13 23-2244 LF 3" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	21.98 4.55	10.11
23 21 13 23-2245 LF 4" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	32.56 6.82	15.15
23 21 13 23-2246 LF 6" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	47.46 9.10	20.21
23 21 13 23-2247 LF 8" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	62.18 10.85	24.09
23 21 13 23-2248 LF 10" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	120.02 12.10	26.91
23 21 13 23-2249 Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows <small>(23 21 13 23-2235)</small>		
23 21 13 23-2250 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows <i>For Work In Restricted Working Space, Add</i>	23.57 6.82	15.22
23 21 13 23-2251 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows <i>For Work In Restricted Working Space, Add</i>	31.49 9.10	20.16
23 21 13 23-2252 EA 1" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows <i>For Work In Restricted Working Space, Add</i>	39.68 11.28	25.10
23 21 13 23-2253 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows <i>For Work In Restricted Working Space, Add</i>	57.04 15.96	35.53
23 21 13 23-2254 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows <i>For Work In Restricted Working Space, Add</i>	64.07 18.00	40.04
23 21 13 23-2255 EA 2" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows <i>For Work In Restricted Working Space, Add</i>	82.61 22.86	50.89
23 21 13 23-2256 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows <i>For Work In Restricted Working Space, Add</i>	132.27 33.84	75.29
23 21 13 23-2257 EA 3" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows <i>For Work In Restricted Working Space, Add</i>	171.79 44.52	98.97
23 21 13 23-2258 EA 4" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows <i>For Work In Restricted Working Space, Add</i>	218.02 52.87	117.58
23 21 13 23-2259 EA 6" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows <i>For Work In Restricted Working Space, Add</i>	301.47 60.42	134.35
23 21 13 23-2260 EA 8" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows <i>For Work In Restricted Working Space, Add</i>	492.63 70.49	156.77
23 21 13 23-2261 EA 10" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows <i>For Work In Restricted Working Space, Add</i>	736.47 105.11	233.75

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2262 Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows <small>(23 21 13 23-2235)</small>		
23 21 13 23-2263 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows	23.99	15.22
<i>For Work In Restricted Working Space, Add</i>	6.82	
23 21 13 23-2264 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows	32.32	20.16
<i>For Work In Restricted Working Space, Add</i>	9.10	
23 21 13 23-2265 EA 1" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows	40.85	25.10
<i>For Work In Restricted Working Space, Add</i>	11.28	
23 21 13 23-2266 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows	57.79	35.53
<i>For Work In Restricted Working Space, Add</i>	15.96	
23 21 13 23-2267 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows	65.73	40.04
<i>For Work In Restricted Working Space, Add</i>	18.00	
23 21 13 23-2268 EA 2" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows	83.69	50.89
<i>For Work In Restricted Working Space, Add</i>	22.86	
23 21 13 23-2269 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows	132.27	75.29
<i>For Work In Restricted Working Space, Add</i>	33.84	
23 21 13 23-2270 EA 3" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows	178.79	98.97
<i>For Work In Restricted Working Space, Add</i>	44.52	
23 21 13 23-2271 EA 4" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows	230.76	117.58
<i>For Work In Restricted Working Space, Add</i>	52.87	
23 21 13 23-2272 EA 6" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows	302.63	134.35
<i>For Work In Restricted Working Space, Add</i>	60.42	
23 21 13 23-2273 EA 8" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows	478.56	156.77
<i>For Work In Restricted Working Space, Add</i>	70.49	
23 21 13 23-2274 EA 10" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows	736.47	233.75
<i>For Work In Restricted Working Space, Add</i>	105.11	
23 21 13 23-2275 Schedule 40 Polyvinyl Chloride (PVC) Tees <small>(23 21 13 23-2235)</small>		
23 21 13 23-2276 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) Tees.....	38.60	25.10
<i>For Work In Restricted Working Space, Add</i>	11.28	
23 21 13 23-2277 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Tees.....	46.56	30.31
<i>For Work In Restricted Working Space, Add</i>	13.64	
23 21 13 23-2278 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Tees.....	62.07	40.04
<i>For Work In Restricted Working Space, Add</i>	18.00	
23 21 13 23-2279 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Tees	79.53	50.89
<i>For Work In Restricted Working Space, Add</i>	22.86	
23 21 13 23-2280 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Tees	95.03	60.63
<i>For Work In Restricted Working Space, Add</i>	27.29	
23 21 13 23-2281 EA 2" Schedule 40 Polyvinyl Chloride (PVC) Tees.....	118.70	75.29
<i>For Work In Restricted Working Space, Add</i>	33.84	
23 21 13 23-2282 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Tees	168.05	98.97
<i>For Work In Restricted Working Space, Add</i>	44.52	
23 21 13 23-2283 EA 3" Schedule 40 Polyvinyl Chloride (PVC) Tees.....	201.95	117.58
<i>For Work In Restricted Working Space, Add</i>	52.87	
23 21 13 23-2284 EA 4" Schedule 40 Polyvinyl Chloride (PVC) Tees.....	281.59	156.77
<i>For Work In Restricted Working Space, Add</i>	70.49	
23 21 13 23-2285 EA 6" Schedule 40 Polyvinyl Chloride (PVC) Tees.....	460.36	202.17
<i>For Work In Restricted Working Space, Add</i>	90.95	
23 21 13 23-2286 EA 8" Schedule 40 Polyvinyl Chloride (PVC) Tees.....	740.58	250.80
<i>For Work In Restricted Working Space, Add</i>	112.78	
23 21 13 23-2287 EA 10" Schedule 40 Polyvinyl Chloride (PVC) Tees.....	1,988.69	374.73
<i>For Work In Restricted Working Space, Add</i>	168.56	
23 21 13 23-2288 Schedule 40 Polyvinyl Chloride (PVC) Crosses <small>(23 21 13 23-2235)</small>		
23 21 13 23-2289 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) Crosses	48.56	31.29
<i>For Work In Restricted Working Space, Add</i>	14.10	
23 21 13 23-2290 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Crosses	58.55	37.92
<i>For Work In Restricted Working Space, Add</i>	17.06	
23 21 13 23-2291 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Crosses	78.26	50.05
<i>For Work In Restricted Working Space, Add</i>	22.50	
23 21 13 23-2292 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Crosses	100.48	63.58
<i>For Work In Restricted Working Space, Add</i>	28.58	
23 21 13 23-2293 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Crosses	120.08	75.85
<i>For Work In Restricted Working Space, Add</i>	34.11	
23 21 13 23-2294 EA 2" Schedule 40 Polyvinyl Chloride (PVC) Crosses	150.25	94.03
<i>For Work In Restricted Working Space, Add</i>	42.29	
23 21 13 23-2295 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Crosses	216.30	123.78
<i>For Work In Restricted Working Space, Add</i>	55.65	
23 21 13 23-2296 EA 3" Schedule 40 Polyvinyl Chloride (PVC) Crosses	260.60	146.90
<i>For Work In Restricted Working Space, Add</i>	66.08	
23 21 13 23-2297 EA 4" Schedule 40 Polyvinyl Chloride (PVC) Crosses	368.80	195.97
<i>For Work In Restricted Working Space, Add</i>	88.11	
23 21 13 23-2298 EA 6" Schedule 40 Polyvinyl Chloride (PVC) Crosses	625.21	252.64
<i>For Work In Restricted Working Space, Add</i>	113.65	
23 21 13 23-2299 EA 8" Schedule 40 Polyvinyl Chloride (PVC) Crosses	1,041.29	313.26
<i>For Work In Restricted Working Space, Add</i>	140.90	
23 21 13 23-2300 EA 10" Schedule 40 Polyvinyl Chloride (PVC) Crosses	2,939.37	468.62
<i>For Work In Restricted Working Space, Add</i>	210.80	
23 21 13 23-2301 Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts <small>(23 21 13 23-2235)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2302 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts.....	24.34	15.51
<i>For Work In Restricted Working Space, Add</i>	7.08	
23 21 13 23-2303 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts.....	31.77	19.88
<i>For Work In Restricted Working Space, Add</i>	9.06	
23 21 13 23-2304 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts	42.42	26.65
<i>For Work In Restricted Working Space, Add</i>	12.10	
23 21 13 23-2305 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts	52.46	33.13
<i>For Work In Restricted Working Space, Add</i>	15.09	
23 21 13 23-2306 EA 2" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts.....	64.20	39.90
<i>For Work In Restricted Working Space, Add</i>	18.16	
23 21 13 23-2307 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts	89.83	55.41
<i>For Work In Restricted Working Space, Add</i>	25.20	
23 21 13 23-2308 EA 3" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts.....	124.82	76.55
<i>For Work In Restricted Working Space, Add</i>	34.82	
23 21 13 23-2309 EA 4" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts.....	164.01	95.16
<i>For Work In Restricted Working Space, Add</i>	43.28	
23 21 13 23-2310 EA 6" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts.....	216.87	110.81
<i>For Work In Restricted Working Space, Add</i>	50.35	
23 21 13 23-2311 EA 8" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts.....	475.88	128.01
<i>For Work In Restricted Working Space, Add</i>	58.19	
23 21 13 23-2312 EA 10" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts.....	573.12	171.71
<i>For Work In Restricted Working Space, Add</i>	78.04	
23 21 13 23-2313 Schedule 40 Polyvinyl Chloride (PVC) Threaded Reducing Inserts (23 21 13 23-2235)		
23 21 13 23-2314 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) Threaded Reducing Inserts	24.49	15.22
<i>For Work In Restricted Working Space, Add</i>	6.82	
23 21 13 23-2315 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Threaded Reducing Inserts	32.07	20.16
<i>For Work In Restricted Working Space, Add</i>	9.10	
23 21 13 23-2316 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Threaded Reducing Inserts	39.76	25.10
<i>For Work In Restricted Working Space, Add</i>	11.28	
23 21 13 23-2317 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Threaded Reducing Inserts	56.54	35.53
<i>For Work In Restricted Working Space, Add</i>	15.96	
23 21 13 23-2318 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Threaded Reducing Inserts	63.82	40.04
<i>For Work In Restricted Working Space, Add</i>	18.00	
23 21 13 23-2319 EA 2" Schedule 40 Polyvinyl Chloride (PVC) Threaded Reducing Inserts	81.44	50.89
<i>For Work In Restricted Working Space, Add</i>	22.86	
23 21 13 23-2320 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Threaded Reducing Inserts	120.37	75.29
<i>For Work In Restricted Working Space, Add</i>	33.84	
23 21 13 23-2321 EA 3" Schedule 40 Polyvinyl Chloride (PVC) Threaded Reducing Inserts	157.14	98.97
<i>For Work In Restricted Working Space, Add</i>	44.52	
23 21 13 23-2322 EA 4" Schedule 40 Polyvinyl Chloride (PVC) Threaded Reducing Inserts	195.96	117.58
<i>For Work In Restricted Working Space, Add</i>	52.87	
23 21 13 23-2323 Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters (23 21 13 23-2235)		
23 21 13 23-2324 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters.....	25.07	15.22
<i>For Work In Restricted Working Space, Add</i>	6.82	
23 21 13 23-2325 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters.....	32.65	20.16
<i>For Work In Restricted Working Space, Add</i>	9.10	
23 21 13 23-2326 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters.....	40.93	25.10
<i>For Work In Restricted Working Space, Add</i>	11.28	
23 21 13 23-2327 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters.....	57.21	35.53
<i>For Work In Restricted Working Space, Add</i>	15.96	
23 21 13 23-2328 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters.....	65.32	40.04
<i>For Work In Restricted Working Space, Add</i>	18.00	
23 21 13 23-2329 EA 2" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters.....	82.78	50.89
<i>For Work In Restricted Working Space, Add</i>	22.86	
23 21 13 23-2330 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters.....	121.86	75.29
<i>For Work In Restricted Working Space, Add</i>	33.84	
23 21 13 23-2331 EA 3" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters.....	161.72	98.97
<i>For Work In Restricted Working Space, Add</i>	44.52	
23 21 13 23-2332 EA 4" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters.....	193.30	117.58
<i>For Work In Restricted Working Space, Add</i>	52.87	
23 21 13 23-2333 Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters (23 21 13 23-2235)		
23 21 13 23-2334 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters	23.57	15.22
<i>For Work In Restricted Working Space, Add</i>	6.82	
23 21 13 23-2335 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters	31.40	20.16
<i>For Work In Restricted Working Space, Add</i>	9.10	
23 21 13 23-2336 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters.....	38.85	25.10
<i>For Work In Restricted Working Space, Add</i>	11.28	
23 21 13 23-2337 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters	55.21	35.53
<i>For Work In Restricted Working Space, Add</i>	15.96	
23 21 13 23-2338 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters	62.32	40.04
<i>For Work In Restricted Working Space, Add</i>	18.00	
23 21 13 23-2339 EA 2" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters.....	79.36	50.89
<i>For Work In Restricted Working Space, Add</i>	22.86	
23 21 13 23-2340 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters	126.52	75.29
<i>For Work In Restricted Working Space, Add</i>	33.84	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2341 EA 3" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters..... <i>For Work In Restricted Working Space, Add</i>	166.88 44.52	98.97
23 21 13 23-2342 EA 4" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters..... <i>For Work In Restricted Working Space, Add</i>	206.78 52.87	117.58
23 21 13 23-2343 Schedule 40 Polyvinyl Chloride (PVC) P-Traps (23 21 13 23-2235)		
23 21 13 23-2344 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) P-Traps..... <i>For Work In Restricted Working Space, Add</i>	37.09 9.30	20.72
23 21 13 23-2345 Schedule 40 Polyvinyl Chloride (PVC) Couplings (23 21 13 23-2235)		
23 21 13 23-2346 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	23.24 6.82	15.22
23 21 13 23-2347 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	30.99 9.10	20.16
23 21 13 23-2348 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	38.85 11.28	25.10
23 21 13 23-2349 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	54.88 15.96	35.53
23 21 13 23-2350 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	61.82 18.00	40.04
23 21 13 23-2351 EA 2" Schedule 40 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	79.03 22.86	50.89
23 21 13 23-2352 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	119.12 33.84	75.29
23 21 13 23-2353 EA 3" Schedule 40 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	158.31 44.52	98.97
23 21 13 23-2354 EA 4" Schedule 40 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	190.63 52.87	117.58
23 21 13 23-2355 EA 6" Schedule 40 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	247.02 60.42	134.35
23 21 13 23-2356 EA 8" Schedule 40 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	320.22 70.49	156.77
23 21 13 23-2357 EA 10" Schedule 40 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	643.13 75.56	168.05
23 21 13 23-2358 Schedule 40 Polyvinyl Chloride (PVC) Unions (23 21 13 23-2235)		
23 21 13 23-2359 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	46.03 11.28	25.10
23 21 13 23-2360 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	59.55 13.64	30.31
23 21 13 23-2361 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	75.72 18.00	40.04
23 21 13 23-2362 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	114.50 22.86	50.89
23 21 13 23-2363 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	130.91 27.29	60.63
23 21 13 23-2364 EA 2" Schedule 40 Polyvinyl Chloride (PVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	166.65 33.84	75.29
23 21 13 23-2365 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	246.14 44.52	98.97
23 21 13 23-2366 EA 3" Schedule 40 Polyvinyl Chloride (PVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	279.79 52.87	117.58
23 21 13 23-2367 EA 4" Schedule 40 Polyvinyl Chloride (PVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	440.34 70.49	156.77
23 21 13 23-2368 EA 6" Schedule 40 Polyvinyl Chloride (PVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	578.35 90.92	202.17
23 21 13 23-2369 EA 8" Schedule 40 Polyvinyl Chloride (PVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	829.94 112.72	250.66
23 21 13 23-2370 EA 10" Schedule 40 Polyvinyl Chloride (PVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	1,215.23 139.97	311.15
23 21 13 23-2371 Schedule 40 Polyvinyl Chloride (PVC) Caps (23 21 13 23-2235)		
23 21 13 23-2372 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) Caps..... <i>For Work In Restricted Working Space, Add</i>	11.03 3.11	6.85
23 21 13 23-2373 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Caps..... <i>For Work In Restricted Working Space, Add</i>	14.48 4.10	9.02
23 21 13 23-2374 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Caps..... <i>For Work In Restricted Working Space, Add</i>	18.24 5.07	11.14
23 21 13 23-2375 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Caps..... <i>For Work In Restricted Working Space, Add</i>	26.05 7.27	15.97
23 21 13 23-2376 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Caps..... <i>For Work In Restricted Working Space, Add</i>	29.00 8.10	17.77
23 21 13 23-2377 EA 2" Schedule 40 Polyvinyl Chloride (PVC) Caps..... <i>For Work In Restricted Working Space, Add</i>	36.70 10.29	22.70
23 21 13 23-2378 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Caps..... <i>For Work In Restricted Working Space, Add</i>	58.66 15.23	33.56
23 21 13 23-2379 EA 3" Schedule 40 Polyvinyl Chloride (PVC) Caps..... <i>For Work In Restricted Working Space, Add</i>	75.35 20.03	44.12



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2380 EA 4" Schedule 40 Polyvinyl Chloride (PVC) Caps <i>For Work In Restricted Working Space, Add</i>	98.95 23.79	52.30
23 21 13 23-2381 EA 6" Schedule 40 Polyvinyl Chloride (PVC) Caps <i>For Work In Restricted Working Space, Add</i>	137.67 27.19	59.77
23 21 13 23-2382 EA 8" Schedule 40 Polyvinyl Chloride (PVC) Caps <i>For Work In Restricted Working Space, Add</i>	263.08 31.72	69.79
23 21 13 23-2383 EA 10" Schedule 40 Polyvinyl Chloride (PVC) Caps <i>For Work In Restricted Working Space, Add</i>	739.83 47.30	104.05
23 21 13 23-2384 Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges (23 21 13 23-2235)		
23 21 13 23-2385 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Socket Weld Flanges <i>For Work In Restricted Working Space, Add</i>	54.33 11.28	25.10
23 21 13 23-2386 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	71.12 13.64	30.31
23 21 13 23-2387 EA 1" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	88.54 18.00	40.04
23 21 13 23-2388 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	105.59 22.86	50.89
23 21 13 23-2389 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	121.00 27.29	60.63
23 21 13 23-2390 EA 2" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	152.75 33.84	75.29
23 21 13 23-2391 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	210.09 44.52	98.97
23 21 13 23-2392 EA 3" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	244.33 52.87	117.58
23 21 13 23-2393 EA 4" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	321.22 70.49	156.77
23 21 13 23-2394 EA 6" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	438.66 90.92	202.17
23 21 13 23-2395 EA 8" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	681.68 112.72	250.66
23 21 13 23-2396 EA 10" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	1,155.38 139.75	310.72
23 21 13 23-2397 Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe And Fittings (23 21 13 23-2234) Note: ASTM D1785 with D2467 fittings.		
23 21 13 23-2398 Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe (23 21 13 23-2397)		
23 21 13 23-2399 LF 1/2" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	7.18 1.82	4.09
23 21 13 23-2400 LF 3/4" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	9.00 2.27	5.08
23 21 13 23-2401 LF 1" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	11.20 2.72	6.06
23 21 13 23-2402 LF 1-1/4" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	13.48 3.18	7.05
23 21 13 23-2403 LF 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	15.54 3.63	8.03
23 21 13 23-2404 LF 2" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	20.16 4.55	10.15
23 21 13 23-2405 LF 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	24.12 5.00	11.14
23 21 13 23-2406 LF 3" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	28.07 5.46	12.13
23 21 13 23-2407 LF 4" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	37.25 6.82	15.22
23 21 13 23-2408 LF 6" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	57.91 9.10	20.16
23 21 13 23-2409 LF 8" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	78.19 10.85	24.10
23 21 13 23-2410 LF 10" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	168.43 11.68	25.94
23 21 13 23-2411 Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows (23 21 13 23-2397)		
23 21 13 23-2412 EA 1/2" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	25.74 6.82 3.41	15.22
23 21 13 23-2413 EA 3/4" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	34.23 9.10 4.55	20.16
23 21 13 23-2414 EA 1" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	43.93 11.28 5.64	25.10
23 21 13 23-2415 EA 1-1/4" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	61.62 15.96 7.98	35.53
23 21 13 23-2416 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	68.98 18.00 9.00	40.04

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 20 HVAC Piping and Pumps

23 21 Hydronic Piping and Pumps



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2417 EA 2" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	87.11 22.86 11.43	50.89
23 21 13 23-2418 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	138.35 33.84 16.92	75.29
23 21 13 23-2419 EA 3" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	177.12 44.52 22.26	98.97
23 21 13 23-2420 EA 4" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	219.85 52.87 26.43	117.58
23 21 13 23-2421 EA 6" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	358.99 60.42 30.21	134.35
23 21 13 23-2422 EA 8" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	577.55 70.49 35.25	156.77
23 21 13 23-2423 EA 10" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	736.47 105.11 52.55	233.75
23 21 13 23-2424 Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows (23 21 13 23-2397)		
23 21 13 23-2425 EA 1/2" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	28.48 6.82 3.41	15.22
23 21 13 23-2426 EA 3/4" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	39.06 9.10 4.55	20.16
23 21 13 23-2427 EA 1" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	50.75 11.28 5.64	25.10
23 21 13 23-2428 EA 1-1/4" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	70.03 15.96 7.98	35.53
23 21 13 23-2429 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	79.80 18.00 9.00	40.04
23 21 13 23-2430 EA 2" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	101.93 22.86 11.43	50.89
23 21 13 23-2431 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	166.91 33.84 16.92	75.29
23 21 13 23-2432 EA 3" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	214.26 44.52 22.26	98.97
23 21 13 23-2433 EA 4" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	294.87 52.87 26.43	117.58
23 21 13 23-2434 EA 6" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	350.76 60.42 30.21	134.35
23 21 13 23-2435 EA 8" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	558.84 70.49 35.25	156.77
23 21 13 23-2436 EA 10" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	715.43 105.11 52.55	233.75
23 21 13 23-2437 Schedule 80 Polyvinyl Chloride (PVC) Tees (23 21 13 23-2397)		
23 21 13 23-2438 EA 1/2" Schedule 80 Polyvinyl Chloride (PVC) Tees..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	44.27 10.71 5.35	23.82
23 21 13 23-2439 EA 3/4" Schedule 80 Polyvinyl Chloride (PVC) Tees..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	54.47 13.64 6.82	30.31
23 21 13 23-2440 EA 1" Schedule 80 Polyvinyl Chloride (PVC) Tees..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	71.23 18.00 9.00	40.04
23 21 13 23-2441 EA 1-1/4" Schedule 80 Polyvinyl Chloride (PVC) Tees <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	107.26 22.86 11.43	50.89
23 21 13 23-2442 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Tees <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	122.01 27.29 13.64	60.63
23 21 13 23-2443 EA 2" Schedule 80 Polyvinyl Chloride (PVC) Tees..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	151.67 33.84 16.92	75.29
23 21 13 23-2444 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Tees <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	190.69 44.52 22.26	98.97



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2445 EA 3" Schedule 80 Polyvinyl Chloride (PVC) Tees <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	229.01 52.87 26.43	117.58
23 21 13 23-2446 EA 4" Schedule 80 Polyvinyl Chloride (PVC) Tees <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	296.16 70.49 35.25	156.77
23 21 13 23-2447 EA 6" Schedule 80 Polyvinyl Chloride (PVC) Tees <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	512.24 90.95 45.48	202.17
23 21 13 23-2448 EA 8" Schedule 80 Polyvinyl Chloride (PVC) Tees <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	860.83 112.78 56.39	250.80
23 21 13 23-2449 EA 10" Schedule 80 Polyvinyl Chloride (PVC) Tees <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	1,988.79 168.56 84.28	374.73
23 21 13 23-2450 Schedule 80 Polyvinyl Chloride (PVC) Crosses <small>(23 21 13 23-2397)</small>		
23 21 13 23-2451 EA 1/2" Schedule 80 Polyvinyl Chloride (PVC) Crosses <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	58.06 13.39 6.69	29.74
23 21 13 23-2452 EA 3/4" Schedule 80 Polyvinyl Chloride (PVC) Crosses <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	70.94 17.06 8.53	37.92
23 21 13 23-2453 EA 1" Schedule 80 Polyvinyl Chloride (PVC) Crosses <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	92.61 22.50 11.25	50.05
23 21 13 23-2454 EA 1-1/4" Schedule 80 Polyvinyl Chloride (PVC) Crosses <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	143.94 28.58 14.29	63.58
23 21 13 23-2455 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Crosses <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	162.37 34.11 17.05	75.85
23 21 13 23-2456 EA 2" Schedule 80 Polyvinyl Chloride (PVC) Crosses <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	201.93 42.29 21.15	94.03
23 21 13 23-2457 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Crosses <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	251.81 55.65 27.83	123.78
23 21 13 23-2458 EA 3" Schedule 80 Polyvinyl Chloride (PVC) Crosses <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	303.03 66.08 33.04	146.90
23 21 13 23-2459 EA 4" Schedule 80 Polyvinyl Chloride (PVC) Crosses <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	389.64 88.11 44.06	195.97
23 21 13 23-2460 EA 6" Schedule 80 Polyvinyl Chloride (PVC) Crosses <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	706.54 113.65 56.82	252.64
23 21 13 23-2461 EA 8" Schedule 80 Polyvinyl Chloride (PVC) Crosses <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	1,229.79 140.90 70.45	313.26
23 21 13 23-2462 EA 10" Schedule 80 Polyvinyl Chloride (PVC) Crosses <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	2,939.52 210.80 105.40	468.62
23 21 13 23-2463 Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts <small>(23 21 13 23-2397)</small>		
23 21 13 23-2464 EA 3/4" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	32.07 9.10	20.16
23 21 13 23-2465 EA 1" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	42.68 11.28	25.10
23 21 13 23-2466 EA 1-1/4" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	61.20 15.96	35.53
23 21 13 23-2467 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	70.89 18.00	40.04
23 21 13 23-2468 EA 2" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	91.77 22.86	50.89
23 21 13 23-2469 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	139.76 33.84	75.29
23 21 13 23-2470 EA 3" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	191.27 44.52	98.97
23 21 13 23-2471 EA 4" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	235.67 52.87	117.58
23 21 13 23-2472 EA 6" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	267.33 60.42	134.35
23 21 13 23-2473 EA 8" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	381.32 70.49	156.77
23 21 13 23-2474 EA 10" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	585.97 81.89	182.01
23 21 13 23-2475 Schedule 80 Polyvinyl Chloride (PVC) Threaded Reducing Inserts <small>(23 21 13 23-2397)</small>		
23 21 13 23-2476 EA 1/2" Schedule 80 Polyvinyl Chloride (PVC) Threaded Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	23.32 6.82	15.22

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2477 EA 3/4" Schedule 80 Polyvinyl Chloride (PVC) Threaded Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	33.57 9.10	20.16
23 21 13 23-2478 EA 1" Schedule 80 Polyvinyl Chloride (PVC) Threaded Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	42.68 11.28	25.10
23 21 13 23-2479 EA 1-1/4" Schedule 80 Polyvinyl Chloride (PVC) Threaded Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	63.53 15.96	35.53
23 21 13 23-2480 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Threaded Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	72.98 18.00	40.04
23 21 13 23-2481 EA 2" Schedule 80 Polyvinyl Chloride (PVC) Threaded Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	92.10 22.86	50.89
23 21 13 23-2482 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Threaded Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	146.42 33.84	75.29
23 21 13 23-2483 EA 3" Schedule 80 Polyvinyl Chloride (PVC) Threaded Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	210.67 44.52	98.97
23 21 13 23-2484 EA 4" Schedule 80 Polyvinyl Chloride (PVC) Threaded Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	271.97 52.87	117.58
23 21 13 23-2485 Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters <small>(23 21 13 23-2397)</small>		
23 21 13 23-2486 EA 1/2" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters <i>For Work In Restricted Working Space, Add</i>	29.82 6.82	15.22
23 21 13 23-2487 EA 3/4" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters <i>For Work In Restricted Working Space, Add</i>	38.14 9.10	20.16
23 21 13 23-2488 EA 1" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters <i>For Work In Restricted Working Space, Add</i>	51.25 11.28	25.10
23 21 13 23-2489 EA 1-1/4" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters <i>For Work In Restricted Working Space, Add</i>	69.19 15.96	35.53
23 21 13 23-2490 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters <i>For Work In Restricted Working Space, Add</i>	82.97 18.00	40.04
23 21 13 23-2491 EA 2" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters <i>For Work In Restricted Working Space, Add</i>	106.17 22.86	50.89
23 21 13 23-2492 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters <i>For Work In Restricted Working Space, Add</i>	146.92 33.84	75.29
23 21 13 23-2493 EA 3" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters <i>For Work In Restricted Working Space, Add</i>	186.28 44.52	98.97
23 21 13 23-2494 EA 4" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters <i>For Work In Restricted Working Space, Add</i>	243.58 52.87	117.58
23 21 13 23-2495 Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters <small>(23 21 13 23-2397)</small>		
23 21 13 23-2496 EA 1/2" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters <i>For Work In Restricted Working Space, Add</i>	27.90 6.82	15.22
23 21 13 23-2497 EA 3/4" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters <i>For Work In Restricted Working Space, Add</i>	37.98 9.10	20.16
23 21 13 23-2498 EA 1" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters <i>For Work In Restricted Working Space, Add</i>	48.92 11.28	25.10
23 21 13 23-2499 EA 1-1/4" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters <i>For Work In Restricted Working Space, Add</i>	71.61 15.96	35.53
23 21 13 23-2500 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters <i>For Work In Restricted Working Space, Add</i>	82.55 18.00	40.04
23 21 13 23-2501 EA 2" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters <i>For Work In Restricted Working Space, Add</i>	115.49 22.86	50.89
23 21 13 23-2502 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters <i>For Work In Restricted Working Space, Add</i>	174.89 33.84	75.29
23 21 13 23-2503 EA 3" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters <i>For Work In Restricted Working Space, Add</i>	218.33 44.52	98.97
23 21 13 23-2504 EA 4" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters <i>For Work In Restricted Working Space, Add</i>	296.44 52.87	117.58
23 21 13 23-2505 Schedule 80 Polyvinyl Chloride (PVC) Couplings <small>(23 21 13 23-2397)</small>		
23 21 13 23-2506 EA 1/2" Schedule 80 Polyvinyl Chloride (PVC) Couplings <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	28.23 6.82 3.41	15.22
23 21 13 23-2507 EA 3/4" Schedule 80 Polyvinyl Chloride (PVC) Couplings <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	37.73 9.10 4.55	20.16
23 21 13 23-2508 EA 1" Schedule 80 Polyvinyl Chloride (PVC) Couplings <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	45.26 11.28 5.64	25.10
23 21 13 23-2509 EA 1-1/4" Schedule 80 Polyvinyl Chloride (PVC) Couplings <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	64.95 15.96 7.98	35.53
23 21 13 23-2510 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Couplings <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	72.64 18.00 9.00	40.04
23 21 13 23-2511 EA 2" Schedule 80 Polyvinyl Chloride (PVC) Couplings <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	89.69 22.86 11.43	50.89



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2512 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Couplings	146.17	75.29
<i>For Work In Restricted Working Space, Add</i>	33.84	
<i>For Threaded Fittings, Add</i>	16.92	
23 21 13 23-2513 EA 3" Schedule 80 Polyvinyl Chloride (PVC) Couplings	186.78	98.97
<i>For Work In Restricted Working Space, Add</i>	44.52	
<i>For Threaded Fittings, Add</i>	22.26	
23 21 13 23-2514 EA 4" Schedule 80 Polyvinyl Chloride (PVC) Couplings	224.35	117.58
<i>For Work In Restricted Working Space, Add</i>	52.87	
<i>For Threaded Fittings, Add</i>	26.43	
23 21 13 23-2515 EA 6" Schedule 80 Polyvinyl Chloride (PVC) Couplings	304.88	134.35
<i>For Work In Restricted Working Space, Add</i>	60.42	
<i>For Threaded Fittings, Add</i>	30.21	
23 21 13 23-2516 EA 8" Schedule 80 Polyvinyl Chloride (PVC) Couplings	375.83	156.77
<i>For Work In Restricted Working Space, Add</i>	70.49	
<i>For Threaded Fittings, Add</i>	35.25	
23 21 13 23-2517 EA 10" Schedule 80 Polyvinyl Chloride (PVC) Couplings	668.10	168.05
<i>For Work In Restricted Working Space, Add</i>	75.56	
<i>For Threaded Fittings, Add</i>	37.78	
23 21 13 23-2518 Schedule 80 Polyvinyl Chloride (PVC) Unions <small>(23 21 13 23-2397)</small>		
23 21 13 23-2519 EA 1/2" Schedule 80 Polyvinyl Chloride (PVC) Unions	49.92	25.10
<i>For Work In Restricted Working Space, Add</i>	11.28	
23 21 13 23-2520 EA 3/4" Schedule 80 Polyvinyl Chloride (PVC) Unions	59.72	30.31
<i>For Work In Restricted Working Space, Add</i>	13.64	
23 21 13 23-2521 EA 1" Schedule 80 Polyvinyl Chloride (PVC) Unions	76.22	40.04
<i>For Work In Restricted Working Space, Add</i>	18.00	
23 21 13 23-2522 EA 1-1/4" Schedule 80 Polyvinyl Chloride (PVC) Unions	116.83	50.89
<i>For Work In Restricted Working Space, Add</i>	22.86	
23 21 13 23-2523 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Unions	143.23	60.63
<i>For Work In Restricted Working Space, Add</i>	27.29	
23 21 13 23-2524 EA 2" Schedule 80 Polyvinyl Chloride (PVC) Unions	183.64	75.29
<i>For Work In Restricted Working Space, Add</i>	33.84	
23 21 13 23-2525 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Unions	280.31	98.97
<i>For Work In Restricted Working Space, Add</i>	44.52	
23 21 13 23-2526 EA 3" Schedule 80 Polyvinyl Chloride (PVC) Unions	346.26	117.58
<i>For Work In Restricted Working Space, Add</i>	52.87	
23 21 13 23-2527 EA 4" Schedule 80 Polyvinyl Chloride (PVC) Unions	440.84	156.77
<i>For Work In Restricted Working Space, Add</i>	70.49	
23 21 13 23-2528 EA 6" Schedule 80 Polyvinyl Chloride (PVC) Unions	578.35	202.17
<i>For Work In Restricted Working Space, Add</i>	90.92	
23 21 13 23-2529 EA 8" Schedule 80 Polyvinyl Chloride (PVC) Unions	829.94	250.66
<i>For Work In Restricted Working Space, Add</i>	112.72	
23 21 13 23-2530 EA 10" Schedule 80 Polyvinyl Chloride (PVC) Unions	1,214.48	310.72
<i>For Work In Restricted Working Space, Add</i>	139.75	
23 21 13 23-2531 Schedule 80 Polyvinyl Chloride (PVC) Threaded Unions <small>(23 21 13 23-2397)</small>		
23 21 13 23-2532 EA 1/2", Scheduler 80, Polyvinyl Chloride (PVC) Threaded Union.....	54.41	31.32
23 21 13 23-2533 EA 3/4", Scheduler 80, Polyvinyl Chloride (PVC) Threaded Union.....	64.65	36.23
23 21 13 23-2534 EA 1", Scheduler 80, Polyvinyl Chloride (PVC) Threaded Union.....	78.03	42.72
23 21 13 23-2535 EA 1-1/4", Scheduler 80, Polyvinyl Chloride (PVC) Threaded Union.....	102.72	50.89
23 21 13 23-2536 EA 1-1/2", Scheduler 80, Polyvinyl Chloride (PVC) Threaded Union.....	123.64	60.63
23 21 13 23-2537 EA 2", Scheduler 80, Polyvinyl Chloride (PVC) Threaded Union.....	162.70	75.29
23 21 13 23-2538 EA 3", Scheduler 80, Polyvinyl Chloride (PVC) Threaded Union.....	345.26	145.92
23 21 13 23-2539 EA 4", Scheduler 80, Polyvinyl Chloride (PVC) Threaded Union.....	375.29	161.85
23 21 13 23-2540 Schedule 80 Polyvinyl Chloride (PVC) Caps <small>(23 21 13 23-2397)</small>		
23 21 13 23-2541 EA 1/2" Schedule 80 Polyvinyl Chloride (PVC) Caps	17.98	6.77
<i>For Work In Restricted Working Space, Add</i>	3.07	
<i>For Threaded Fittings, Add</i>	1.54	
23 21 13 23-2542 EA 3/4" Schedule 80 Polyvinyl Chloride (PVC) Caps	21.81	9.02
<i>For Work In Restricted Working Space, Add</i>	4.10	
<i>For Threaded Fittings, Add</i>	2.05	
23 21 13 23-2543 EA 1" Schedule 80 Polyvinyl Chloride (PVC) Caps	31.39	11.14
<i>For Work In Restricted Working Space, Add</i>	5.07	
<i>For Threaded Fittings, Add</i>	2.54	
23 21 13 23-2544 EA 1-1/4" Schedule 80 Polyvinyl Chloride (PVC) Caps	41.42	15.79
<i>For Work In Restricted Working Space, Add</i>	7.18	
<i>For Threaded Fittings, Add</i>	3.59	
23 21 13 23-2545 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Caps	44.48	17.77
<i>For Work In Restricted Working Space, Add</i>	8.10	
<i>For Threaded Fittings, Add</i>	4.05	
23 21 13 23-2546 EA 2" Schedule 80 Polyvinyl Chloride (PVC) Caps	60.51	22.70
<i>For Work In Restricted Working Space, Add</i>	10.29	
<i>For Threaded Fittings, Add</i>	5.14	
23 21 13 23-2547 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Caps	104.61	33.56
<i>For Work In Restricted Working Space, Add</i>	15.23	
<i>For Threaded Fittings, Add</i>	7.61	
23 21 13 23-2548 EA 3" Schedule 80 Polyvinyl Chloride (PVC) Caps	132.63	44.12
<i>For Work In Restricted Working Space, Add</i>	20.03	
<i>For Threaded Fittings, Add</i>	10.02	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2549 EA 4" Schedule 80 Polyvinyl Chloride (PVC) Caps <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	185.20 23.79 11.90	52.30
23 21 13 23-2550 EA 6" Schedule 80 Polyvinyl Chloride (PVC) Caps <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	353.70 27.19 13.59	59.77
23 21 13 23-2551 EA 8" Schedule 80 Polyvinyl Chloride (PVC) Caps <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	467.13 31.72 15.86	69.79
23 21 13 23-2552 EA 10" Schedule 80 Polyvinyl Chloride (PVC) Caps <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	823.08 47.30 23.65	104.05
23 21 13 23-2553 Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges (23 21 13 23-2397)		
23 21 13 23-2554 EA 1/2" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	61.49 11.28 5.64	25.10
23 21 13 23-2555 EA 3/4" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	71.12 13.64 6.82	30.31
23 21 13 23-2556 EA 1" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	88.55 18.00 9.00	40.04
23 21 13 23-2557 EA 1-1/4" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	105.59 22.86 11.43	50.89
23 21 13 23-2558 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	121.00 27.29 13.64	60.63
23 21 13 23-2559 EA 2" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	152.75 33.84 16.92	75.29
23 21 13 23-2560 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	210.09 44.52 22.26	98.97
23 21 13 23-2561 EA 3" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	244.33 52.87 26.43	117.58
23 21 13 23-2562 EA 4" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	321.22 70.49 35.25	156.77
23 21 13 23-2563 EA 6" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	438.67 90.92 45.46	202.17
23 21 13 23-2564 EA 8" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	681.68 112.72 56.36	250.66
23 21 13 23-2565 EA 10" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	1,155.38 139.75 69.87	310.72
23 21 13 23-2566 Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe (23 21 13 23-2234) Note: In place pipe.		
23 21 13 23-2567 EA 1/2", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	7.66 2.30	
23 21 13 23-2568 EA 3/4", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	8.27 2.48	
23 21 13 23-2569 EA 1", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	9.30 2.79	
23 21 13 23-2570 EA 1-1/4", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	9.76 2.93	
23 21 13 23-2571 EA 1-1/2", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	10.33 3.10	
23 21 13 23-2572 EA 2", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	11.37 3.41	
23 21 13 23-2573 EA 2-1/2", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	12.25 3.68	
23 21 13 23-2574 EA 3", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	14.48 4.34	
23 21 13 23-2575 EA 4", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	19.52 5.86	
23 21 13 23-2576 EA 6", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	27.90 8.37	
23 21 13 23-2577 EA 8", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	37.21 11.16	
23 21 13 23-2578 EA 10", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	45.49 13.65	
23 21 13 23-2579 Polyethylene Pipe And Fittings (23 21 13 23)		
23 21 13 23-2580 Small Diameter Tubing (23 21 13 23-2579)		



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2581				Tubing (23 21 13 23-2580)		
23 21 13 23-2582	LF			1/4" Polyethylene Tubing.....	4.53	
				<i>For Work In Restricted Working Space, Add</i>	1.28	
23 21 13 23-2583	LF			5/16" Polyethylene Tubing.....	4.86	
				<i>For Work In Restricted Working Space, Add</i>	1.30	
23 21 13 23-2584	LF			3/8" Polyethylene Tubing.....	5.10	
				<i>For Work In Restricted Working Space, Add</i>	1.33	
23 21 13 23-2585	LF			1/2" Polyethylene Tubing.....	5.29	
				<i>For Work In Restricted Working Space, Add</i>	1.44	
23 21 13 23-2586				Chrome Plated Pipe (23 21 13 23)		
23 21 13 23-2587				Chrome Plated Nipples (23 21 13 23-2586)		
23 21 13 23-2588				Close (23 21 13 23-2587)		
23 21 13 23-2589	EA			1/4" Diameter Chrome Plated Nipple, Close.....	25.29	12.25
23 21 13 23-2590	EA			3/8" Diameter Chrome Plated Nipple, Close.....	24.84	13.32
23 21 13 23-2591	EA			1/2" Diameter Chrome Plated Nipple, Close.....	30.38	15.31
23 21 13 23-2592	EA			3/4" Diameter Chrome Plated Nipple, Close.....	39.57	19.45
23 21 13 23-2593	EA			1" Diameter Chrome Plated Nipple, Close.....	52.80	25.57
23 21 13 23-2594	EA			1-1/4" Diameter Chrome Plated Nipple, Close.....	74.61	35.67
23 21 13 23-2595	EA			1-1/2" Diameter Chrome Plated Nipple, Close.....	90.31	41.81
23 21 13 23-2596	EA			2" Diameter Chrome Plated Nipple, Close.....	115.60	52.06
23 21 13 23-2597				1-1/2" Nipples (23 21 13 23-2587)		
23 21 13 23-2598	EA			1/4" Diameter, 1-1/2" Length, Chrome Plated Nipple.....	26.87	12.71
23 21 13 23-2599	EA			3/8" Diameter, 1-1/2" Length, Chrome Plated Nipple.....	26.13	13.78
23 21 13 23-2600	EA			1/2" Diameter, 1-1/2" Length, Chrome Plated Nipple.....	31.19	15.77
23 21 13 23-2601	EA			3/4" Diameter, 1-1/2" Length, Chrome Plated Nipple.....	40.90	19.90
23 21 13 23-2602				2" Nipples (23 21 13 23-2587)		
23 21 13 23-2603	EA			1/4" Diameter, 2" Length, Chrome Plated Nipple.....	27.96	13.32
23 21 13 23-2604	EA			3/8" Diameter, 2" Length, Chrome Plated Nipple.....	27.05	14.24
23 21 13 23-2605	EA			1/2" Diameter, 2" Length, Chrome Plated Nipple.....	33.30	16.38
23 21 13 23-2606	EA			3/4" Diameter, 2" Length, Chrome Plated Nipple.....	42.73	20.37
23 21 13 23-2607	EA			1" Diameter, 2" Length, Chrome Plated Nipple.....	55.65	26.49
23 21 13 23-2608	EA			1-1/4" Diameter, 2" Length, Chrome Plated Nipple.....	79.00	36.75
23 21 13 23-2609	EA			1-1/2" Diameter, 2" Length, Chrome Plated Nipple.....	95.33	42.87
23 21 13 23-2610				2-1/2" Nipples (23 21 13 23-2587)		
23 21 13 23-2611	EA			1/4" Diameter, 2-1/2" Length, Chrome Plated Nipple.....	29.45	13.78
23 21 13 23-2612	EA			3/8" Diameter, 2-1/2" Length, Chrome Plated Nipple.....	28.03	14.86
23 21 13 23-2613	EA			1/2" Diameter, 2-1/2" Length, Chrome Plated Nipple.....	34.65	16.85
23 21 13 23-2614	EA			3/4" Diameter, 2-1/2" Length, Chrome Plated Nipple.....	43.76	20.98
23 21 13 23-2615	EA			1" Diameter, 2-1/2" Length, Chrome Plated Nipple.....	57.13	27.10
23 21 13 23-2616	EA			1-1/4" Diameter, 2-1/2" Length, Chrome Plated Nipple.....	83.05	37.21
23 21 13 23-2617	EA			1-1/2" Diameter, 2-1/2" Length, Chrome Plated Nipple.....	100.65	43.33
23 21 13 23-2618	EA			2" Diameter, 2-1/2" Length, Chrome Plated Nipple.....	127.37	53.60
23 21 13 23-2619				3" Nipples (23 21 13 23-2587)		
23 21 13 23-2620	EA			1/4" Diameter, 3" Length, Chrome Plated Nipple.....	30.66	14.24
23 21 13 23-2621	EA			3/8" Diameter, 3" Length, Chrome Plated Nipple.....	29.55	15.31
23 21 13 23-2622	EA			1/2" Diameter, 3" Length, Chrome Plated Nipple.....	34.09	16.38
23 21 13 23-2623	EA			3/4" Diameter, 3" Length, Chrome Plated Nipple.....	46.76	21.44
23 21 13 23-2624	EA			1" Diameter, 3" Length, Chrome Plated Nipple.....	63.04	27.56
23 21 13 23-2625	EA			1-1/4" Diameter, 3" Length, Chrome Plated Nipple.....	87.44	37.83
23 21 13 23-2626	EA			1-1/2" Diameter, 3" Length, Chrome Plated Nipple.....	112.91	43.95
23 21 13 23-2627	EA			2" Diameter, 3" Length, Chrome Plated Nipple.....	137.01	54.21
23 21 13 23-2628				3-1/2" Nipples (23 21 13 23-2587)		
23 21 13 23-2629	EA			1/4" Diameter, 3-1/2" Length, Chrome Plated Nipple.....	32.00	14.86
23 21 13 23-2630	EA			3/8" Diameter, 3-1/2" Length, Chrome Plated Nipple.....	31.97	15.77
23 21 13 23-2631	EA			1/2" Diameter, 3-1/2" Length, Chrome Plated Nipple.....	37.50	17.91
23 21 13 23-2632	EA			3/4" Diameter, 3-1/2" Length, Chrome Plated Nipple.....	51.11	21.89
23 21 13 23-2633	EA			1" Diameter, 3-1/2" Length, Chrome Plated Nipple.....	65.45	28.03
23 21 13 23-2634	EA			1-1/4" Diameter, 3-1/2" Length, Chrome Plated Nipple.....	95.85	38.28
23 21 13 23-2635	EA			1-1/2" Diameter, 3-1/2" Length, Chrome Plated Nipple.....	116.71	44.41
23 21 13 23-2636	EA			2" Diameter, 3-1/2" Length, Chrome Plated Nipple.....	144.73	54.66
23 21 13 23-2637				4" Nipples (23 21 13 23-2587)		
23 21 13 23-2638	EA			1/4" Diameter, 4" Length, Chrome Plated Nipple.....	33.33	15.31
23 21 13 23-2639	EA			3/8" Diameter, 4" Length, Chrome Plated Nipple.....	32.83	16.38
23 21 13 23-2640	EA			1/2" Diameter, 4" Length, Chrome Plated Nipple.....	37.57	17.30

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2641 EA 3/4" Diameter, 4" Length, Chrome Plated Nipple.....	52.94	22.51
23 21 13 23-2642 EA 1" Diameter, 4" Length, Chrome Plated Nipple.....	67.75	28.64
23 21 13 23-2643 EA 1-1/4" Diameter, 4" Length, Chrome Plated Nipple.....	102.32	38.74
23 21 13 23-2644 EA 1-1/2" Diameter, 4" Length, Chrome Plated Nipple.....	124.34	44.87
23 21 13 23-2645 EA 2" Diameter, 4" Length, Chrome Plated Nipple.....	154.11	55.13
23 21 13 23-2646 4-1/2" Nipples (23 21 13 23-2587)		
23 21 13 23-2647 EA 1/4" Diameter, 4-1/2" Length, Chrome Plated Nipple.....	34.54	15.77
23 21 13 23-2648 EA 3/8" Diameter, 4-1/2" Length, Chrome Plated Nipple.....	35.26	16.85
23 21 13 23-2649 EA 1/2" Diameter, 4-1/2" Length, Chrome Plated Nipple.....	41.14	18.84
23 21 13 23-2650 EA 3/4" Diameter, 4-1/2" Length, Chrome Plated Nipple.....	55.03	22.97
23 21 13 23-2651 EA 1" Diameter, 4-1/2" Length, Chrome Plated Nipple.....	75.20	29.09
23 21 13 23-2652 EA 1-1/4" Diameter, 4-1/2" Length, Chrome Plated Nipple.....	108.52	39.35
23 21 13 23-2653 EA 1-1/2" Diameter, 4-1/2" Length, Chrome Plated Nipple.....	127.84	45.48
23 21 13 23-2654 EA 2" Diameter, 4-1/2" Length, Chrome Plated Nipple.....	162.75	55.74
23 21 13 23-2655 5" Nipples (23 21 13 23-2587)		
23 21 13 23-2656 EA 1/4" Diameter, 5" Length, Chrome Plated Nipple.....	38.18	16.38
23 21 13 23-2657 EA 3/8" Diameter, 5" Length, Chrome Plated Nipple.....	36.86	17.30
23 21 13 23-2658 EA 1/2" Diameter, 5" Length, Chrome Plated Nipple.....	42.56	19.45
23 21 13 23-2659 EA 3/4" Diameter, 5" Length, Chrome Plated Nipple.....	57.03	23.43
23 21 13 23-2660 EA 1" Diameter, 5" Length, Chrome Plated Nipple.....	79.80	29.55
23 21 13 23-2661 EA 1-1/4" Diameter, 5" Length, Chrome Plated Nipple.....	114.18	39.82
23 21 13 23-2662 EA 1-1/2" Diameter, 5" Length, Chrome Plated Nipple.....	135.51	45.94
23 21 13 23-2663 EA 2" Diameter, 5" Length, Chrome Plated Nipple.....	168.40	56.20
23 21 13 23-2664 5-1/2" Nipples (23 21 13 23-2587)		
23 21 13 23-2665 EA 1/4" Diameter, 5-1/2" Length, Chrome Plated Nipple.....	39.40	16.85
23 21 13 23-2666 EA 3/8" Diameter, 5-1/2" Length, Chrome Plated Nipple.....	38.16	17.91
23 21 13 23-2667 EA 1/2" Diameter, 5-1/2" Length, Chrome Plated Nipple.....	46.18	19.90
23 21 13 23-2668 EA 3/4" Diameter, 5-1/2" Length, Chrome Plated Nipple.....	59.02	24.04
23 21 13 23-2669 EA 1" Diameter, 5-1/2" Length, Chrome Plated Nipple.....	82.31	30.17
23 21 13 23-2670 EA 1-1/4" Diameter, 5-1/2" Length, Chrome Plated Nipple.....	121.00	40.27
23 21 13 23-2671 EA 1-1/2" Diameter, 5-1/2" Length, Chrome Plated Nipple.....	141.64	46.40
23 21 13 23-2672 EA 2" Diameter, 5-1/2" Length, Chrome Plated Nipple.....	175.55	56.66
23 21 13 23-2673 6" Nipples (23 21 13 23-2587)		
23 21 13 23-2674 EA 1/4" Diameter, 6" Length, Chrome Plated Nipple.....	40.83	17.30
23 21 13 23-2675 EA 3/8" Diameter, 6" Length, Chrome Plated Nipple.....	38.97	18.38
23 21 13 23-2676 EA 1/2" Diameter, 6" Length, Chrome Plated Nipple.....	47.51	20.37
23 21 13 23-2677 EA 3/4" Diameter, 6" Length, Chrome Plated Nipple.....	60.69	24.50
23 21 13 23-2678 EA 1" Diameter, 6" Length, Chrome Plated Nipple.....	89.53	30.63
23 21 13 23-2679 EA 1-1/4" Diameter, 6" Length, Chrome Plated Nipple.....	125.26	40.88
23 21 13 23-2680 EA 1-1/2" Diameter, 6" Length, Chrome Plated Nipple.....	151.00	47.01
23 21 13 23-2681 EA 2" Diameter, 6" Length, Chrome Plated Nipple.....	182.11	57.27
23 21 13 23-2682 8" Nipples (23 21 13 23-2587)		
23 21 13 23-2683 EA 3/8" Diameter, 8" Length, Chrome Plated Nipple.....	45.61	19.45
23 21 13 23-2684 EA 1/2" Diameter, 8" Length, Chrome Plated Nipple.....	64.87	21.44
23 21 13 23-2685 EA 3/4" Diameter, 8" Length, Chrome Plated Nipple.....	78.68	25.57
23 21 13 23-2686 EA 1" Diameter, 8" Length, Chrome Plated Nipple.....	103.78	31.69
23 21 13 23-2687 EA 1-1/4" Diameter, 8" Length, Chrome Plated Nipple.....	147.64	41.81
23 21 13 23-2688 EA 1-1/2" Diameter, 8" Length, Chrome Plated Nipple.....	180.16	47.93
23 21 13 23-2689 EA 2" Diameter, 8" Length, Chrome Plated Nipple.....	221.65	58.19
23 21 13 23-2690 10" Nipples (23 21 13 23-2587)		
23 21 13 23-2691 EA 3/8" Diameter, 10" Length, Chrome Plated Nipple.....	51.57	19.45
23 21 13 23-2692 EA 1/2" Diameter, 10" Length, Chrome Plated Nipple.....	72.38	21.44
23 21 13 23-2693 EA 3/4" Diameter, 10" Length, Chrome Plated Nipple.....	87.38	25.57
23 21 13 23-2694 EA 1" Diameter, 10" Length, Chrome Plated Nipple.....	116.95	31.69
23 21 13 23-2695 EA 1-1/4" Diameter, 10" Length, Chrome Plated Nipple.....	175.84	41.81
23 21 13 23-2696 EA 1-1/2" Diameter, 10" Length, Chrome Plated Nipple.....	201.63	47.93
23 21 13 23-2697 EA 2" Diameter, 10" Length, Chrome Plated Nipple.....	255.97	58.19
23 21 13 23-2698 12" Nipples (23 21 13 23-2587)		
23 21 13 23-2699 EA 3/8" Diameter, 12" Length, Chrome Plated Nipple.....	57.48	21.44
23 21 13 23-2700 EA 1/2" Diameter, 12" Length, Chrome Plated Nipple.....	75.78	22.51
23 21 13 23-2701 EA 3/4" Diameter, 12" Length, Chrome Plated Nipple.....	95.94	26.49
23 21 13 23-2702 EA 1" Diameter, 12" Length, Chrome Plated Nipple.....	136.07	33.68
23 21 13 23-2703 EA 1-1/4" Diameter, 12" Length, Chrome Plated Nipple.....	196.21	43.95
23 21 13 23-2704 EA 2" Diameter, 12" Length, Chrome Plated Nipple.....	286.56	60.33



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2705 18" Nipples <small>(23 21 13 23-2587)</small>		
23 21 13 23-2706 EA 3/8" Diameter, 18" Length, Chrome Plated Nipple.....	71.58	22.51
23 21 13 23-2707 24" Nipples <small>(23 21 13 23-2587)</small>		
23 21 13 23-2708 EA 3/8" Diameter, 24" Length, Chrome Plated Nipple.....	85.11	23.43
23 21 13 23-2709 30" Nipples <small>(23 21 13 23-2587)</small>		
23 21 13 23-2710 EA 3/8" Diameter, 30" Length, Chrome Plated Nipple.....	93.87	24.50
23 21 13 23-2711 36" Nipples <small>(23 21 13 23-2587)</small>		
23 21 13 23-2712 EA 3/8" Diameter, 36" Length, Chrome Plated Nipple.....	102.64	25.57
23 21 13 23-2713 Chrome Plated Fittings <small>(23 21 13 23-2586)</small>		
23 21 13 23-2714 Chrome Plated 90 Degree Elbows <small>(23 21 13 23-2713)</small>		
23 21 13 23-2715 EA 1/4" 90 Degree Elbow, Chrome Plated	31.47	14.24
23 21 13 23-2716 EA 3/8" 90 Degree Elbow, Chrome Plated	32.36	15.31
23 21 13 23-2717 EA 1/2" 90 Degree Elbow, Chrome Plated	36.10	16.38
23 21 13 23-2718 EA 3/4" 90 Degree Elbow, Chrome Plated	46.28	21.44
23 21 13 23-2719 EA 1" 90 Degree Elbow, Chrome Plated	62.30	27.56
23 21 13 23-2720 EA 1-1/4" 90 Degree Elbow, Chrome Plated	94.23	37.83
23 21 13 23-2721 EA 1-1/2" 90 Degree Elbow, Chrome Plated	112.69	43.95
23 21 13 23-2722 EA 2" 90 Degree Elbow, Chrome Plated	152.21	54.21
23 21 13 23-2723 Chrome Plated Street 90 Degree Elbows <small>(23 21 13 23-2713)</small>		
23 21 13 23-2724 EA 1/4" Street 90 Degree Elbow, Chrome Plated.....	35.68	14.24
23 21 13 23-2725 EA 3/8" Street 90 Degree Elbow, Chrome Plated.....	36.97	15.31
23 21 13 23-2726 EA 1/2" Street 90 Degree Elbow, Chrome Plated.....	39.31	16.38
23 21 13 23-2727 EA 3/4" Street 90 Degree Elbow, Chrome Plated.....	51.01	21.44
23 21 13 23-2728 EA 1" Street 90 Degree Elbow, Chrome Plated.....	71.03	27.56
23 21 13 23-2729 EA 1-1/4" Street 90 Degree Elbow, Chrome Plated	103.18	37.83
23 21 13 23-2730 EA 1-1/2" Street 90 Degree Elbow, Chrome Plated	125.22	43.95
23 21 13 23-2731 EA 2" Street 90 Degree Elbow, Chrome Plated.....	181.68	54.21
23 21 13 23-2732 Chrome Plated 45 Degree Elbows <small>(23 21 13 23-2713)</small>		
23 21 13 23-2733 EA 1/4" 45 Degree Elbow, Chrome Plated	32.40	14.24
23 21 13 23-2734 EA 3/8" 45 Degree Elbow, Chrome Plated	33.69	15.31
23 21 13 23-2735 EA 1/2" 45 Degree Elbow, Chrome Plated	37.05	16.38
23 21 13 23-2736 EA 3/4" 45 Degree Elbow, Chrome Plated	49.89	21.44
23 21 13 23-2737 EA 1" 45 Degree Elbow, Chrome Plated	66.34	27.56
23 21 13 23-2738 EA 1-1/4" 45 Degree Elbow, Chrome Plated	99.09	37.83
23 21 13 23-2739 EA 1-1/2" 45 Degree Elbow, Chrome Plated	119.18	43.95
23 21 13 23-2740 EA 2" 45 Degree Elbow, Chrome Plated	170.04	54.21
23 21 13 23-2741 Chrome Plated Street 45 Degree Elbows <small>(23 21 13 23-2713)</small>		
23 21 13 23-2742 EA 1/2" Street 45 Degree Elbow, Chrome Plated.....	42.83	16.38
23 21 13 23-2743 Chrome Plated Couplings <small>(23 21 13 23-2713)</small>		
23 21 13 23-2744 EA 1/4" Coupling, Chrome Plated	30.90	14.24
23 21 13 23-2745 EA 3/8" Coupling, Chrome Plated	32.43	15.31
23 21 13 23-2746 EA 1/2" Coupling, Chrome Plated	36.34	16.38
23 21 13 23-2747 EA 3/4" Coupling, Chrome Plated	46.37	21.44
23 21 13 23-2748 EA 1" Coupling, Chrome Plated	60.31	27.56
23 21 13 23-2749 EA 1-1/4" Coupling, Chrome Plated	86.97	37.83
23 21 13 23-2750 EA 1-1/2" Coupling, Chrome Plated	106.60	43.95
23 21 13 23-2751 EA 2" Coupling, Chrome Plated	144.77	54.21
23 21 13 23-2752 Chrome Plated Unions <small>(23 21 13 23-2713)</small>		
23 21 13 23-2753 EA 1/4" Union, Chrome Plated	47.34	16.38
23 21 13 23-2754 EA 3/8" Union, Chrome Plated.....	48.90	17.30
23 21 13 23-2755 EA 1/2" Union, Chrome Plated	58.56	19.45
23 21 13 23-2756 EA 3/4" Union, Chrome Plated	73.13	25.57
23 21 13 23-2757 EA 1" Union, Chrome Plated	92.61	32.62
23 21 13 23-2758 EA 1-1/4" Union, Chrome Plated	147.07	43.95
23 21 13 23-2759 EA 1-1/2" Union, Chrome Plated	182.22	52.06
23 21 13 23-2760 EA 2" Union, Chrome Plated	236.20	63.40
23 21 13 23-2761 Chrome Plated Caps <small>(23 21 13 23-2713)</small>		
23 21 13 23-2762 EA 1/4" Cap, Chrome Plated.....	19.94	7.20

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2763 EA 3/8" Cap, Chrome Plated	20.70	7.66
23 21 13 23-2764 EA 1/2" Cap, Chrome Plated	23.45	8.11
23 21 13 23-2765 EA 3/4" Cap, Chrome Plated	29.43	10.72
23 21 13 23-2766 EA 1" Cap, Chrome Plated	35.33	13.78
23 21 13 23-2767 EA 1-1/4" Cap, Chrome Plated	51.66	18.84
23 21 13 23-2768 EA 1-1/2" Cap, Chrome Plated	67.05	21.89
23 21 13 23-2769 EA 2" Cap, Chrome Plated	96.86	28.64
23 21 13 23-2770 Chrome Plated Plugs (23 21 13 23-2713)		
23 21 13 23-2771 EA 1/4" Plug, Chrome Plated	16.73	7.20
23 21 13 23-2772 EA 3/8" Plug, Chrome Plated	17.49	7.66
23 21 13 23-2773 EA 1/2" Plug, Chrome Plated	20.07	8.11
23 21 13 23-2774 EA 3/4" Plug, Chrome Plated	27.03	10.72
23 21 13 23-2775 EA 1" Plug, Chrome Plated	33.51	13.78
23 21 13 23-2776 EA 1-1/4" Plug, Chrome Plated	45.33	18.84
23 21 13 23-2777 EA 1-1/2" Plug, Chrome Plated	55.48	21.89
23 21 13 23-2778 EA 2" Plug, Chrome Plated	76.72	28.64
23 21 13 23-2779 Chrome Plated Tees (23 21 13 23-2713)		
23 21 13 23-2780 EA 1/4" Chrome Plated Tee	44.26	21.44
23 21 13 23-2781 EA 3/8" Chrome Plated Tee	47.32	23.43
23 21 13 23-2782 EA 1/2" Chrome Plated Tee	52.52	25.57
23 21 13 23-2783 EA 3/4" Chrome Plated Tee	65.37	31.69
23 21 13 23-2784 EA 1" Chrome Plated Tee	91.53	40.88
23 21 13 23-2785 EA 1-1/4" Chrome Plated Tee	126.13	56.20
23 21 13 23-2786 EA 1-1/2" Chrome Plated Tee	159.26	65.39
23 21 13 23-2787 EA 2" Chrome Plated Tee	215.43	80.70
23 21 13 23-2788 Chrome Plated Reducing 90 Degree Elbows (23 21 13 23-2713)		
23 21 13 23-2789 EA 1/2" x 3/8" Reducing 90 Degree Elbow, Chrome Plated	50.38	25.57
23 21 13 23-2790 EA 3/4" x 1/2" Reducing 90 Degree Elbow, Chrome Plated	59.57	31.69
23 21 13 23-2791 Chrome Plated Bell Reducers (23 21 13 23-2713)		
23 21 13 23-2792 EA 1/2" x 3/8" Bell Reducer, Chrome Plated	54.25	25.57
23 21 13 23-2793 EA 3/4" x 1/2" Bell Reducer, Chrome Plated	66.25	31.69
23 21 13 23-2794 EA 1" x 1/2" Bell Reducer, Chrome Plated	84.39	40.88
23 21 13 23-2795 Chrome Plated Reducing Tees (23 21 13 23-2713)		
23 21 13 23-2796 EA 3/4" x 1/2" Reducing Tee, Chrome Plated	71.17	31.69
23 21 13 23-2797 Chrome Plated Bushings (23 21 13 23-2713)		
23 21 13 23-2798 EA 3/8" x 1/4" Bushing, Chrome Plated	16.64	7.20
23 21 13 23-2799 EA 1/2" x 1/4" Bushing, Chrome Plated	17.90	7.66
23 21 13 23-2800 EA 1/2" x 3/8" Bushing, Chrome Plated	18.67	8.11
23 21 13 23-2801 EA 3/4" x 1/2" Bushing, Chrome Plated	23.84	10.72
23 21 13 23-2802 EA 1" x 3/4" Bushing, Chrome Plated	34.12	13.78
23 21 13 23-2803 EA 1-1/4" x 1" Bushing, Chrome Plated	49.49	18.84
23 21 13 23-2804 Aluminum Tubing Assemblies (23 21 13 23)		
Note: ASTM B210 (Tubing), ASTM B26 (Fittings). Includes all hangers and aluminum fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies.		
23 21 13 23-2805 LF 1/8" Inside Diameter Aluminum Pipe/Tubing Assembly	13.33	5.36
Note: Includes all hangers and aluminum fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies.		
23 21 13 23-2806 LF 3/16" Inside Diameter Aluminum Pipe/Tubing Assembly	15.19	6.12
Note: Includes all hangers and aluminum fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies.		
23 21 13 23-2807 LF 1/4" Inside Diameter Aluminum Pipe/Tubing Assembly	16.92	6.90
Note: Includes all hangers and aluminum fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies.		
23 21 13 23-2808 LF 5/16" Inside Diameter Aluminum Pipe/Tubing Assembly	18.52	7.66
Note: Includes all hangers and aluminum fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies.		
23 21 13 23-2809 LF 3/8" Inside Diameter Aluminum Pipe/Tubing Assembly	20.52	8.42
Note: Includes all hangers and aluminum fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies.		
23 21 13 23-2810 LF 1/2" Inside Diameter Aluminum Pipe/Tubing Assembly	23.50	9.19
Note: Includes all hangers and aluminum fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies.		
23 21 13 23-2811 LF 5/8" Inside Diameter Aluminum Pipe/Tubing Assembly	27.47	10.57
Note: Includes all hangers and aluminum fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2812 LF 3/4" Inside Diameter Aluminum Pipe/Tubing Assembly.....	33.66	11.99
Note: Includes all hangers and aluminum fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies.		
23 21 13 23-2813 LF 7/8" Inside Diameter Aluminum Pipe/Tubing Assembly.....	38.95	13.39
Note: Includes all hangers and aluminum fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies.		
23 21 13 23-2814 LF 1" Inside Diameter Aluminum Pipe/Tubing Assembly.....	46.40	14.10
23 21 16 Hydronic Piping Specialties (23 21)		
23 21 16 00-0001 Vent Valves (23 21 16)		
23 21 16 00-0002 EA 1/8", 1.5 PSIG Operating Pressure, Non-Vacuum Adjustable Angle Radiator Steam Vent Valve (Hoffman 1A).....	92.46	22.98
23 21 16 00-0003 EA 1/2" x 3/4", 35 PSIG Operating Pressure, Straight Steam Unit Heater Air Vent Valve (Hoffman 74).....	210.17	24.71
23 21 16 00-0004 EA 1/2" x 3/4", 3 PSIG Operating Pressure, Non-Vacuum Main Steam Air Vent Valve (Hoffman 75).....	200.84	24.71
23 21 16 00-0005 EA 1/2" x 3/4", 10 PSIG Operating Pressure, Non Vacuum Straight Non-Vacuum Main Steam Air Vent Valve (Hoffman 75H).....	207.37	24.71
23 21 16 00-0006 EA 3/4", 150 PSIG Operating Pressure, Straight Water Main Vent Valve (Hoffman 78).....	264.49	24.71
23 21 16 00-0007 EA 1/2" x 3/4", 75 PSIG Operating Pressure, Straight Water Main Vent Valve (Hoffman 79).....	198.28	24.71
23 21 16 00-0008 Threaded Inlet, Drip-Pan Elbow (23 21 16)		
23 21 16 00-0009 Cast Iron, Threaded Inlet, Drip-Pan Elbow (23 21 16 00-0008)		
23 21 16 00-0010 EA 2-1/2" Cast Iron, Threaded Inlet, Drip-Pan Elbow.....	321.59	38.52
<i>For Flanged Inlet, Add</i>		
	114.91	
23 21 16 00-0011 EA 3" Cast Iron, Threaded Inlet, Drip-Pan Elbow.....	365.51	45.66
<i>For Flanged Inlet, Add</i>		
	123.35	
23 21 16 00-0012 EA 3-1/2" Cast Iron, Threaded Inlet, Drip-Pan Elbow.....	457.69	52.79
<i>For Flanged Inlet, Add</i>		
	166.42	
23 21 16 00-0013 EA 4" Cast Iron, Threaded Inlet, Drip-Pan Elbow.....	672.43	59.92
<i>For Flanged Inlet, Add</i>		
	292.80	
23 21 16 00-0014 EA 5" Cast Iron, Threaded Inlet, Drip-Pan Elbow.....	761.36	71.34
<i>For Flanged Inlet, Add</i>		
	323.67	
23 21 16 00-0015 EA 6" Cast Iron, Threaded Inlet, Drip-Pan Elbow.....	1,052.31	89.90
<i>For Flanged Inlet, Add</i>		
	473.01	
23 21 16 00-0016 EA 8" Cast Iron, Threaded Inlet, Drip-Pan Elbow.....	2,326.59	118.43
<i>For Flanged Inlet, Add</i>		
	1,258.67	
23 21 16 00-0017 Cast Steel, Threaded Inlet, Drip-Pan Elbow (23 21 16 00-0008)		
23 21 16 00-0018 EA 2-1/2" Cast Steel, Threaded Inlet, Drip-Pan Elbow.....	1,296.20	38.52
<i>For Flanged Inlet, Add</i>		
	777.64	
23 21 16 00-0019 EA 3" Cast Steel, Threaded Inlet, Drip-Pan Elbow.....	1,569.83	45.66
<i>For Flanged Inlet, Add</i>		
	942.29	
23 21 16 00-0020 EA 3-1/2" Cast Steel, Threaded Inlet, Drip-Pan Elbow.....	2,278.15	52.79
<i>For Flanged Inlet, Add</i>		
	1,404.33	
23 21 16 00-0021 EA 4" Cast Steel, Threaded Inlet, Drip-Pan Elbow.....	2,307.03	59.92
<i>For Flanged Inlet, Add</i>		
	1,404.33	
23 21 16 00-0022 EA 5" Cast Steel, Threaded Inlet, Drip-Pan Elbow.....	3,366.66	71.34
<i>For Flanged Inlet, Add</i>		
	2,095.28	
23 21 16 00-0023 EA 6" Cast Steel, Threaded Inlet, Drip-Pan Elbow.....	3,438.00	89.90
<i>For Flanged Inlet, Add</i>		
	2,095.28	
23 21 16 00-0024 EA 8" Cast Steel, Threaded Inlet, Drip-Pan Elbow.....	5,766.94	118.43
<i>For Flanged Inlet, Add</i>		
	3,598.10	
23 21 16 00-0025 Y-Type Strainers (23 21 16)		
23 21 16 00-0026 Screwed Ends, 250 LB, Iron Body, Y-Type Strainers (23 21 16 00-0025)		
23 21 16 00-0027 EA 1/4" Or 3/8" Screwed Ends, 250 LB, Iron Body, Y-Type Strainer.....	92.55	17.15
<i>For Galvanized Body, Add</i>		
	21.77	
<i>For Work In Restricted Working Space, Add</i>		
	14.71	
23 21 16 00-0028 EA 1/2" Screwed Ends, 250 LB, Iron Body, Y-Type Strainer.....	93.31	17.47
<i>For Galvanized Body, Add</i>		
	21.77	
<i>For Work In Restricted Working Space, Add</i>		
	14.93	
23 21 16 00-0029 EA 3/4" Screwed Ends, 250 LB, Iron Body, Y-Type Strainer.....	119.36	23.59
<i>For Galvanized Body, Add</i>		
	25.98	
<i>For Work In Restricted Working Space, Add</i>		
	20.22	
23 21 16 00-0030 EA 1" Screwed Ends, 250 LB, Iron Body, Y-Type Strainer.....	150.63	28.18
<i>For Galvanized Body, Add</i>		
	35.11	
<i>For Work In Restricted Working Space, Add</i>		
	24.13	
23 21 16 00-0031 EA 1-1/4" Screwed Ends, 250 LB, Iron Body, Y-Type Strainer.....	195.76	34.85
<i>For Galvanized Body, Add</i>		
	48.10	
<i>For Work In Restricted Working Space, Add</i>		
	29.87	
23 21 16 00-0032 EA 1-1/2" Screwed Ends, 250 LB, Iron Body, Y-Type Strainer.....	223.08	37.53
<i>For Galvanized Body, Add</i>		
	57.93	
<i>For Work In Restricted Working Space, Add</i>		
	32.17	
23 21 16 00-0033 EA 2" Screwed Ends, 250 LB, Iron Body, Y-Type Strainer.....	300.88	42.89
<i>For Galvanized Body, Add</i>		
	89.17	
<i>For Work In Restricted Working Space, Add</i>		
	36.76	
23 21 16 00-0034 EA 2-1/2" Screwed Ends, 250 LB, Iron Body, Y-Type Strainer.....	554.10	53.61
<i>For Galvanized Body, Add</i>		
	200.46	
<i>For Work In Restricted Working Space, Add</i>		
	45.95	

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 20 HVAC Piping and Pumps

23 21 Hydronic Piping and Pumps



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 16 00-0035	EA		3" Screwed Ends, 250 LB, Iron Body, Y-Type Strainer.....	715.27	67.09
			<i>For Galvanized Body, Add</i>	261.90	
			<i>For Work In Restricted Working Space, Add</i>	57.44	
23 21 16 00-0036			Flanged, 125 LB, Iron Body , Y-Type Strainers (23 21 16 00-0025)		
23 21 16 00-0037	EA		1-1/2" Flanged, 125 LB, Iron Body, Y-Type Strainer.....	382.28	160.84
			<i>For Galvanized Body, Add</i>	90.37	
			<i>For Work In Restricted Working Space, Add</i>	60.47	
23 21 16 00-0038	EA		2" Flanged, 125 LB, Iron Body, Y-Type Strainer.....	450.88	204.19
			<i>For Galvanized Body, Add</i>	97.79	
			<i>For Work In Restricted Working Space, Add</i>	76.59	
23 21 16 00-0039	EA		3" Flanged, 125 LB, Iron Body, Y-Type Strainer.....	792.15	260.40
			<i>For Galvanized Body, Add</i>	233.12	
			<i>For Work In Restricted Working Space, Add</i>	97.77	
23 21 16 00-0040	EA		4" Flanged, 125 LB, Iron Body, Y-Type Strainer.....	1,076.15	436.55
			<i>For Galvanized Body, Add</i>	264.55	
			<i>For Work In Restricted Working Space, Add</i>	164.12	
23 21 16 00-0041	EA		5" Flanged, 125 LB, Iron Body, Y-Type Strainer.....	1,140.70	439.69
			<i>For Galvanized Body, Add</i>	295.97	
			<i>For Work In Restricted Working Space, Add</i>	164.63	
23 21 16 00-0042	EA		6" Flanged, 125 LB, Iron Body, Y-Type Strainer.....	1,348.03	488.55
			<i>For Galvanized Body, Add</i>	367.58	
			<i>For Work In Restricted Working Space, Add</i>	183.86	
23 21 16 00-0043	EA		8" Flanged, 125 LB, Iron Body, Y-Type Strainer.....	2,223.36	624.26
			<i>For Galvanized Body, Add</i>	723.94	
			<i>For Work In Restricted Working Space, Add</i>	232.64	
23 21 16 00-0044	EA		10" Flanged, 125 LB, Iron Body, Y-Type Strainer.....	4,177.02	759.97
			<i>For Galvanized Body, Add</i>	1,613.53	
			<i>For Work In Restricted Working Space, Add</i>	284.99	
23 21 16 00-0045	EA		12" Flanged, 125 LB, Iron Body, Y-Type Strainer.....	4,712.51	678.55
			<i>For Galvanized Body, Add</i>	1,677.72	
			<i>For Work In Restricted Working Space, Add</i>	407.12	
23 21 16 00-0046			Screwed Ends, 150 LB, Bronze Body, Y-Type Strainers (23 21 16 00-0025)		
			Note: With screwed cap (4" size has bolted cap).		
23 21 16 00-0047	EA		1/2" Screwed Ends, 150 LB, Bronze Body, Y-Type Strainer.....	82.52	17.47
			<i>For 300 LB Rating, Add</i>	55.66	
			<i>For Work In Restricted Working Space, Add</i>	14.93	
23 21 16 00-0048	EA		3/4" Screwed Ends, 150 LB, Bronze Body, Y-Type Strainer.....	109.96	23.59
			<i>For 300 LB Rating, Add</i>	72.35	
			<i>For Work In Restricted Working Space, Add</i>	20.22	
23 21 16 00-0049	EA		1" Screwed Ends, 150 LB, Bronze Body, Y-Type Strainer.....	134.03	28.18
			<i>For 300 LB Rating, Add</i>	91.14	
			<i>For Work In Restricted Working Space, Add</i>	24.13	
23 21 16 00-0050	EA		1-1/4" Screwed Ends, 150 LB, Bronze Body, Y-Type Strainer.....	166.69	34.85
			<i>For 300 LB Rating, Add</i>	114.10	
			<i>For Work In Restricted Working Space, Add</i>	29.87	
23 21 16 00-0051	EA		1-1/2" Screwed Ends, 150 LB, Bronze Body, Y-Type Strainer.....	194.40	37.53
			<i>For 300 LB Rating, Add</i>	148.19	
			<i>For Work In Restricted Working Space, Add</i>	32.17	
23 21 16 00-0052	EA		2" Screwed Ends, 150 LB, Bronze Body, Y-Type Strainer.....	264.14	42.89
			<i>For 300 LB Rating, Add</i>	240.72	
			<i>For Work In Restricted Working Space, Add</i>	36.76	
23 21 16 00-0053	EA		2-1/2" Screwed Ends, 150 LB, Bronze Body, Y-Type Strainer.....	386.86	53.61
			<i>For 300 LB Rating, Add</i>	397.26	
			<i>For Work In Restricted Working Space, Add</i>	45.95	
23 21 16 00-0054	EA		3" Screwed Ends, 150 LB, Bronze Body, Y-Type Strainer.....	675.97	67.09
			<i>For 300 LB Rating, Add</i>	823.65	
			<i>For Work In Restricted Working Space, Add</i>	57.44	
23 21 16 00-0055	EA		4" Screwed Ends, 150 LB, Bronze Body, Y-Type Strainer.....	1,149.27	80.42
			<i>For 300 LB Rating, Add</i>	1,563.15	
			<i>For Work In Restricted Working Space, Add</i>	68.93	
23 21 16 00-0056			Flanged, 150 LB, Bronze Body, Y-Type Strainers (23 21 16 00-0025)		
			Note: With bolted cap.		
23 21 16 00-0057	EA		2" Flanged, 150 LB, Bronze Body, Y-Type Strainer.....	662.00	204.19
			<i>For 300 LB Rating, Add</i>	244.02	
			<i>For Work In Restricted Working Space, Add</i>	76.59	
23 21 16 00-0058	EA		2-1/2" Flanged, 150 LB, Bronze Body, Y-Type Strainer.....	692.88	222.11
			<i>For 300 LB Rating, Add</i>	248.62	
			<i>For Work In Restricted Working Space, Add</i>	83.55	
23 21 16 00-0059	EA		3" Flanged, 150 LB, Bronze Body, Y-Type Strainer.....	800.40	260.40
			<i>For 300 LB Rating, Add</i>	284.69	
			<i>For Work In Restricted Working Space, Add</i>	97.77	
23 21 16 00-0060	EA		4" Flanged, 150 LB, Bronze Body, Y-Type Strainer.....	1,699.99	436.55
			<i>For 300 LB Rating, Add</i>	691.76	
			<i>For Work In Restricted Working Space, Add</i>	164.12	
23 21 16 00-0061	EA		6" Flanged, 150 LB, Bronze Body, Y-Type Strainer.....	2,360.53	488.55
			<i>For 300 LB Rating, Add</i>	1,048.59	
			<i>For Work In Restricted Working Space, Add</i>	183.86	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 16 00-0062 EA 8" Flanged, 150 LB, Bronze Body, Y-Type Strainer..... <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	3,757.98 1,789.50 232.64	624.26
23 21 16 00-0063 EA 10" Flanged, 150 LB, Bronze Body, Y-Type Strainer..... <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	11,654.57 6,422.77 284.99	759.97
23 21 16 00-0064 Cast Iron Body, Suction Diffusers <small>(23 21 16)</small> Note: 175 PSI, steel inlet vanes, steel orifice cylinder and 16 mesh bronze startup strainer.		
23 21 16 00-0065 EA 2" x 1-1/2" Screwed Ends, 175 LB, Cast Iron Body, Suction Diffuser..... <i>For Work In Restricted Working Space, Add</i>	562.39 29.55	60.35
23 21 16 00-0066 EA 2" x 2" Screwed Ends, 175 LB, Cast Iron Body, Suction Diffuser..... <i>For Work In Restricted Working Space, Add</i>	591.86 32.82	66.94
23 21 16 00-0067 EA 2-1/2" x 2" Screwed Ends, 175 LB, Cast Iron Body, Suction Diffuser..... <i>For Work In Restricted Working Space, Add</i>	602.02 34.48	70.31
23 21 16 00-0068 EA 2-1/2" x 2-1/2" Flanged, 175 LB, Cast Iron Body, Suction Diffuser..... <i>For Work In Restricted Working Space, Add</i>	1,150.63 83.55	222.11
23 21 16 00-0069 EA 3" x 1-1/2" Screwed Ends, 175 LB, Cast Iron Body, Suction Diffuser..... <i>For Work In Restricted Working Space, Add</i>	625.20 40.04	81.80
23 21 16 00-0070 EA 3" x 2" Screwed Ends, 175 LB, Cast Iron Body, Suction Diffuser..... <i>For Work In Restricted Working Space, Add</i>	704.06 40.04	81.80
23 21 16 00-0071 EA 3" x 2-1/2" Flanged, 175 LB, Cast Iron Body, Suction Diffuser..... <i>For Work In Restricted Working Space, Add</i>	1,206.81 90.66	241.77
23 21 16 00-0072 EA 3" x 3" Flanged, 175 LB, Cast Iron Body, Suction Diffuser..... <i>For Work In Restricted Working Space, Add</i>	1,235.15 97.77	260.40
23 21 16 00-0073 EA 4" x 3" Flanged, 175 LB, Cast Iron Body, Suction Diffuser..... <i>For Work In Restricted Working Space, Add</i>	1,508.09 130.95	349.19
23 21 16 00-0074 EA 4" x 4" Flanged, 175 LB, Cast Iron Body, Suction Diffuser..... <i>For Work In Restricted Working Space, Add</i>	1,781.02 164.12	436.55
23 21 16 00-0075 EA 6" x 4" Flanged, 175 LB, Cast Iron Body, Suction Diffuser..... <i>For Work In Restricted Working Space, Add</i>	2,023.96 164.63	439.02
23 21 16 00-0076 EA 6" x 6" Flanged, 175 LB, Cast Iron Body, Suction Diffuser..... <i>For Work In Restricted Working Space, Add</i>	2,435.99 183.86	488.55
23 21 16 00-0077 EA 8" x 6" Flanged, 175 LB, Cast Iron Body, Suction Diffuser..... <i>For Work In Restricted Working Space, Add</i>	2,770.23 232.64	624.26
23 21 16 00-0078 EA 8" x 8" Flanged, 175 LB, Cast Iron Body, Suction Diffuser..... <i>For Work In Restricted Working Space, Add</i>	4,203.67 232.64	624.26
23 21 16 00-0079 EA 10" x 8" Flanged, 175 LB, Cast Iron Body, Suction Diffuser..... <i>For Work In Restricted Working Space, Add</i>	4,814.21 284.99	759.97
23 21 16 00-0080 EA 10" x 10" Flanged, 175 LB, Cast Iron Body, Suction Diffuser..... <i>For Work In Restricted Working Space, Add</i>	5,598.20 284.99	759.97
23 21 16 00-0081 Duplex Strainers <small>(23 21 16)</small>		
23 21 16 00-0082 Iron Body, Duplex Strainers <small>(23 21 16 00-0081)</small>		
23 21 16 00-0083 Screwed Ends, 125 LB, Bronze Diverter, Iron Body, Duplex Strainers <small>(23 21 16 00-0082)</small> Note: With brass or stainless steel basket.		
23 21 16 00-0084 EA 3/4" Screwed Ends, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	911.18 22.90	38.14
23 21 16 00-0085 EA 1" Screwed Ends, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	1,017.89 26.21	43.66
23 21 16 00-0086 EA 1-1/4" Screwed Ends, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	1,376.59 30.77	51.31
23 21 16 00-0087 EA 1-1/2" Screwed Ends, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	1,729.34 33.55	55.91
23 21 16 00-0088 EA 2" Screwed Ends, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	2,315.21 41.03	68.16
23 21 16 00-0089 EA 2-1/2" Screwed Ends, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	2,913.93 52.37	87.31
23 21 16 00-0090 Flanged, 125 LB, Bronze Diverter, Iron Body, Duplex Strainers <small>(23 21 16 00-0082)</small> Note: With brass or stainless steel basket.		
23 21 16 00-0091 EA 2" Flanged, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	3,168.58 76.59	204.19
23 21 16 00-0092 EA 2-1/2" Flanged, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	3,278.75 83.55	222.11
23 21 16 00-0093 EA 3" Flanged, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	4,195.79 97.77	260.40
23 21 16 00-0094 EA 4" Flanged, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	6,572.11 145.40	386.77
23 21 16 00-0095 EA 6" Flanged, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	12,787.77 183.86	488.55
23 21 16 00-0096 EA 8" Flanged, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	24,255.62 232.64	624.26
23 21 16 00-0097 EA 10" Flanged, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	33,474.31 284.99	759.97
23 21 16 00-0098 EA 12" Flanged, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	38,093.61 575.04	958.11
23 21 16 00-0099 EA 14" Flanged, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	45,186.68 407.12	1,085.67

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 16 00-0100 EA 16" Flanged, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	56,453.73 447.84	1,194.23
23 21 16 00-0101 Bronze Body, Duplex Strainers (23 21 16 00-0081)		
23 21 16 00-0102 Screwed Ends, 125 LB, Bronze Diverter, Bronze Body Duplex Strainers (23 21 16 00-0101) Note: With brass or stainless steel basket.		
23 21 16 00-0103 EA 3/4" Screwed Ends, 125 LB, Bronze Diverter, Bronze Body Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	1,685.15 22.90	38.29
23 21 16 00-0104 EA 1" Screwed Ends, 125 LB, Bronze Diverter, Bronze Body Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	1,870.13 26.21	43.66
23 21 16 00-0105 EA 1-1/4" Screwed Ends, 125 LB, Bronze Diverter, Bronze Body Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	2,733.22 30.77	51.31
23 21 16 00-0106 EA 1-1/2" Screwed Ends, 125 LB, Bronze Diverter, Bronze Body Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	3,590.36 33.55	55.91
23 21 16 00-0107 EA 2" Screwed Ends, 125 LB, Bronze Diverter, Bronze Body Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	4,637.13 41.03	68.16
23 21 16 00-0108 EA 2-1/2" Screwed, 125 LB, Bronze Diverter, Bronze Body Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	5,696.76 52.37	87.31
23 21 16 00-0109 Flanged, 125 LB, Bronze Diverter, Bronze Body, Duplex Strainers (23 21 16 00-0101) Note: With brass or stainless steel basket.		
23 21 16 00-0110 EA 2" Flanged, 125 LB, Bronze Diverter, Bronze Body, Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	6,516.67 76.59	204.19
23 21 16 00-0111 EA 2-1/2" Flanged, 125 LB, Bronze Diverter, Bronze Body, Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	6,713.81 83.55	222.11
23 21 16 00-0112 EA 3" Flanged, 125 LB, Bronze Diverter, Bronze Body, Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	9,196.19 97.77	260.40
23 21 16 00-0113 EA 4" Flanged, 125 LB, Bronze Diverter, Bronze Body, Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	14,485.79 145.40	386.77
23 21 16 00-0114 EA 6" Flanged, 125 LB, Bronze Diverter, Bronze Body, Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	31,397.96 183.86	488.55
23 21 16 00-0115 Cast Steel Body, Duplex Strainers (23 21 16 00-0081)		
23 21 16 00-0116 Screwed Ends, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainers (23 21 16 00-0115) Note: With brass or stainless steel basket.		
23 21 16 00-0117 EA 1" Screwed Ends, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	2,619.56 26.22	43.66
23 21 16 00-0118 EA 1-1/4" Screwed Ends, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	3,225.56 30.77	51.31
23 21 16 00-0119 EA 1-1/2" Screwed Ends, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	3,825.69 33.55	55.91
23 21 16 00-0120 EA 2" Screwed Ends, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	6,467.20 41.03	68.16
23 21 16 00-0121 Flanged, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainers (23 21 16 00- 0115) Note: With brass or stainless steel basket.		
23 21 16 00-0122 EA 2" Flanged, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	6,627.93 76.59	204.19
23 21 16 00-0123 EA 2-1/2" Flanged, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	7,284.19 83.55	222.11
23 21 16 00-0124 EA 3" Flanged, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	9,568.34 97.77	260.40
23 21 16 00-0125 EA 4" Flanged, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	14,031.79 145.40	386.77
23 21 16 00-0126 EA 6" Flanged, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	23,908.87 183.86	488.55
23 21 16 00-0127 EA 8" Flanged, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	46,523.40 232.64	624.26
23 21 16 00-0128 Stainless Steel Body, Duplex Strainers (23 21 16 00-0081)		
23 21 16 00-0129 Screwed Ends, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainers (23 21 16 00-0128) Note: With stainless steel basket.		
23 21 16 00-0130 EA 1" Screwed Ends, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	6,511.28 26.22	43.66
23 21 16 00-0131 EA 1-1/4" Screwed Ends, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	8,227.58 30.77	51.31
23 21 16 00-0132 EA 1-1/2" Screwed Ends, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	9,926.11 33.55	55.91
23 21 16 00-0133 EA 2" Screwed Ends, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	15,899.09 41.03	68.16



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 16 00-0134			Flanged, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainers <small>(23 21 16 00-0128)</small>		
			Note: With stainless steel basket.		
23 21 16 00-0135	EA		2" Flanged, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainer.....	16,671.90	204.19
			<i>For Work In Restricted Working Space, Add</i>	76.59	
23 21 16 00-0136	EA		2-1/2" Flanged, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainer.....	17,527.84	222.11
			<i>For Work In Restricted Working Space, Add</i>	83.55	
23 21 16 00-0137	EA		3" Flanged, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainer.....	27,448.99	260.40
			<i>For Work In Restricted Working Space, Add</i>	97.77	
23 21 16 00-0138	EA		4" Flanged, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainer.....	33,555.79	386.77
			<i>For Work In Restricted Working Space, Add</i>	145.40	
23 21 16 00-0139	EA		6" Flanged, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainer.....	58,903.71	488.55
			<i>For Work In Restricted Working Space, Add</i>	183.86	
23 21 16 00-0140	EA		8" Flanged, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainer.....	108,791.95	624.26
			<i>For Work In Restricted Working Space, Add</i>	232.64	
23 21 16 00-0141			Pressure Regulating Valve <small>(23 21 16)</small>		
23 21 16 00-0142			Screwed Ends, Iron Body, Water Pressure Reducing Valves <small>(23 21 16 00-0141)</small>		
			Note: For building services, 25 - 75 PSI, up to 300 Lbs. rating		
23 21 16 00-0143	EA		1/2" Screwed Ends, Iron Construction, Water Pressure Reducing Valve	246.49	19.14
			<i>For Work In Restricted Working Space, Add</i>	22.97	
23 21 16 00-0144	EA		3/4" Screwed Ends, Iron Construction, Water Pressure Reducing Valve	301.64	21.44
			<i>For Work In Restricted Working Space, Add</i>	25.52	
23 21 16 00-0145	EA		1" Screwed Ends, Iron Construction, Water Pressure Reducing Valve	392.02	22.97
			<i>For Work In Restricted Working Space, Add</i>	27.02	
23 21 16 00-0146	EA		1-1/4" Screwed Ends, Iron Construction, Water Pressure Reducing Valve	660.21	25.72
			<i>For Work In Restricted Working Space, Add</i>	30.63	
23 21 16 00-0147	EA		1-1/2" Screwed Ends, Iron Construction, Water Pressure Reducing Valve	892.41	30.63
			<i>For Work In Restricted Working Space, Add</i>	36.75	
23 21 16 00-0148	EA		2" Screwed Ends, Iron Construction, Water Pressure Reducing Valve	1,281.67	46.95
			<i>For Work In Restricted Working Space, Add</i>	56.39	
23 21 16 00-0149	EA		2-1/2" Screwed Ends, Iron Construction, Water Pressure Reducing Valve	1,395.81	52.86
			<i>For Work In Restricted Working Space, Add</i>	63.44	
23 21 16 00-0150	EA		3" Screwed Ends, Iron Construction, Water Pressure Reducing Valve	1,534.30	152.97
			<i>For Work In Restricted Working Space, Add</i>	70.49	
23 21 16 00-0151			Cast Iron Body, Steam Pressure Regulator And Reducer <small>(23 21 16 00-0141)</small>		
			Note: Single seated, spring loaded, direct acting diaphragm valve.		
23 21 16 00-0152			Screwed Ends, Cast Iron Body, Steam Pressure Regulator And Reducer <small>(23 21 16 00-0151)</small>		
23 21 16 00-0153	EA		1/2" Screwed Ends, Cast Iron Body, Steam Pressure Regulator Valve And Reducer.....	408.82	25.73
			<i>For Work In Restricted Working Space, Add</i>	30.84	
23 21 16 00-0154	EA		3/4" Screwed Ends, Cast Iron Body, Steam Pressure Regulator Valve And Reducer.....	516.08	36.46
			<i>For Work In Restricted Working Space, Add</i>	43.76	
23 21 16 00-0155	EA		1" Screwed Ends, Cast Iron Body, Steam Pressure Regulator Valve And Reducer.....	661.10	44.42
			<i>For Work In Restricted Working Space, Add</i>	53.44	
23 21 16 00-0156	EA		1-1/4" Screwed Ends, Cast Iron Body, Steam Pressure Regulator Valve And Reducer.....	877.00	53.92
			<i>For Work In Restricted Working Space, Add</i>	62.10	
23 21 16 00-0157	EA		1-1/2" Screwed Ends, Cast Iron Body, Steam Pressure Regulator Valve And Reducer.....	1,167.09	61.28
			<i>For Work In Restricted Working Space, Add</i>	70.70	
23 21 16 00-0158	EA		2" Screwed Ends, Cast Iron Body, Steam Pressure Regulator Valve And Reducer.....	1,366.90	85.61
			<i>For Work In Restricted Working Space, Add</i>	85.61	
23 21 16 00-0159			Flanged, Cast Iron Body, Steam Pressure Regulator And Reducer <small>(23 21 16 00-0151)</small>		
			Note: Single seated, spring loaded, direct acting diaphragm valve.		
23 21 16 00-0160	EA		2-1/2" Flanged, Cast Iron Body, Steam Pressure Regulator Valve And Reducer.....	3,055.17	206.89
			<i>For Work In Restricted Working Space, Add</i>	77.83	
23 21 16 00-0161	EA		3" Flanged, Cast Iron Body, Steam Pressure Regulator Valve And Reducer.....	3,794.33	242.56
			<i>For Work In Restricted Working Space, Add</i>	91.08	
23 21 16 00-0162	EA		4" Flanged, Cast Iron Body, Steam Pressure Regulator Valve And Reducer.....	4,909.17	406.65
			<i>For Work In Restricted Working Space, Add</i>	152.87	
23 21 16 00-0163	EA		6" Flanged, Cast Iron Body, Steam Pressure Regulator Valve And Reducer.....	12,022.56	449.69
			<i>For Work In Restricted Working Space, Add</i>	169.24	
23 21 16 00-0164			Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valves <small>(23 21 16 00-0141)</small>		
23 21 16 00-0165			Screwed Ends, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valves <small>(23 21 16 00-0164)</small>		
23 21 16 00-0166	EA		1/2" Screwed Ends, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valve.....	2,191.43	18.69
			<i>For Work In Restricted Working Space, Add</i>	28.03	
23 21 16 00-0167	EA		3/4" Screwed Ends, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valve.....	2,236.93	18.69
			<i>For Work In Restricted Working Space, Add</i>	28.03	
23 21 16 00-0168	EA		1" Screwed Ends, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valve.....	2,387.83	23.59
			<i>For Work In Restricted Working Space, Add</i>	35.39	
23 21 16 00-0169	EA		1-1/4" Screwed Ends, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valve.....	2,809.25	30.02
			<i>For Work In Restricted Working Space, Add</i>	45.03	

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 20 HVAC Piping and Pumps

23 21 Hydronic Piping and Pumps



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 16 00-0170 EA 1-1/2" Screwed Ends, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valve <i>For Work In Restricted Working Space, Add</i>	3,216.45 51.93	34.62
23 21 16 00-0171 EA 2" Screwed Ends, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valve <i>For Work In Restricted Working Space, Add</i>	3,985.19 61.12	40.74
23 21 16 00-0172 Flanged, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valves (23 21 16 00-0164)		
23 21 16 00-0173 EA 2-1/2" Flanged, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valve <i>For Work In Restricted Working Space, Add</i>	4,925.57 77.83	206.89
23 21 16 00-0174 EA 3" Flanged, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valve <i>For Work In Restricted Working Space, Add</i>	6,071.81 91.08	242.56
23 21 16 00-0175 EA 4" Flanged, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valve <i>For Work In Restricted Working Space, Add</i>	9,209.94 152.87	406.65
23 21 16 00-0176 EA 6" Flanged, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valve <i>For Work In Restricted Working Space, Add</i>	20,083.06 169.24	449.69
23 21 16 00-0177 Screwed Ends, Cast Iron Body, Air Pressure Reducing Valves (23 21 16 00-0141)		
23 21 16 00-0178 EA 1/2" Screwed Ends, Cast Iron Body, Air Pressure Reducing Valve	274.43	19.90
23 21 16 00-0179 EA 3/4" Screwed Ends, Cast Iron Body, Air Pressure Reducing Valve	337.25	22.05
23 21 16 00-0180 EA 1" Screwed Ends, Cast Iron Body, Air Pressure Reducing Valve	441.67	23.43
23 21 16 00-0181 EA 1-1/4" Screwed Ends, Cast Iron Body, Air Pressure Reducing Valve	751.98	26.65
23 21 16 00-0182 EA 1-1/2" Screwed Ends, Cast Iron Body, Air Pressure Reducing Valve	1,018.96	31.85
23 21 16 00-0183 EA 2" Screwed Ends, Cast Iron Body, Air Pressure Reducing Valve	1,461.50	48.78
23 21 16 00-0184 EA 2-1/2" Screwed Ends, Cast Iron Body, Air Pressure Reducing Valve	1,583.49	53.15
23 21 16 00-0185 EA 3" Screwed Ends, Cast Iron Body, Air Pressure Reducing Valve	1,747.95	61.19
23 21 16 00-0186 Screwed Ends, Bronze Body, Water Pressure Reducing Valves (23 21 16 00-0141)		
Note: For building services, bronze construction, pressure adjustment, union and strainer, factory set at 45 PSI (Watts 25AUB).		
23 21 16 00-0187 EA 1/2" Screwed Ends, Bronze Body, Water Pressure Reducing Valve	221.44	19.14
23 21 16 00-0188 EA 3/4" Screwed Ends, Bronze Body, Water Pressure Reducing Valve	243.53	21.44
23 21 16 00-0189 EA 1" Screwed Ends, Bronze Body, Water Pressure Reducing Valve	299.53	23.73
23 21 16 00-0190 EA 1-1/4" Screwed Ends, Bronze Body, Water Pressure Reducing Valve	687.88	25.72
23 21 16 00-0191 EA 1-1/2" Screwed Ends, Bronze Body, Water Pressure Reducing Valve	747.90	30.63
23 21 16 00-0192 EA 2" Screwed Ends, Bronze Body, Water Pressure Reducing Valve	1,174.32	46.95
23 21 16 00-0193 Dual Unit Reducing And Relief Valve (23 21 16)		
23 21 16 00-0194 EA 1/2" Dual Unit Reducing And Relief Valve	251.37	46.72
23 21 16 00-0195 Safety Relief Valve (23 21 16)		
Note: Used in water heater and hot water storage tank applications.		
23 21 16 00-0196 Threaded Inlet, Bronze Body Safety Valves (23 21 16 00-0195)		
Note: Variable set points to 150 psig pressure, 210 Degree F temperature range.		
23 21 16 00-0197 EA 1/2" x 1/2" Threaded Inlet, Bronze Body Safety Valve	101.64	19.14
23 21 16 00-0198 EA 3/4" x 3/4" Threaded Inlet, Bronze Body Safety Valve	137.03	21.06
23 21 16 00-0199 EA 1" x 1" Threaded Inlet, Bronze Body Safety Valve	194.62	25.65
23 21 16 00-0200 EA 1-1/4" x 1-1/4" Threaded Inlet, Bronze Body Safety Valve	247.51	27.18
23 21 16 00-0201 EA 1-1/2" x 1-1/2" Threaded Inlet, Bronze Body Safety Valve	340.08	36.37
23 21 16 00-0202 EA 2" x 2" Threaded Inlet, Bronze Body Safety Valve	452.11	42.87
23 21 16 00-0203 EA 2-1/2" x 2-1/2" Threaded Inlet, Bronze Body Safety Valve	516.10	53.60
23 21 16 00-0204 Threaded, Bronze Body, Temperature And Pressure Relief Valves (23 21 16)		
23 21 16 00-0205 EA 1/2" x 1/2" Threaded, Bronze Body, Temperature And Pressure Relief Valve..... <i>For Cast Iron Body, Add</i>	110.21 58.01	39.05
23 21 16 00-0206 EA 3/4" x 3/4" Threaded, Bronze Body, Temperature And Pressure Relief Valve..... <i>For Cast Iron Body, Add</i>	141.23 80.83	46.86
23 21 16 00-0207 EA 1" x 1" Threaded, Bronze Body, Temperature And Pressure Relief Valve..... <i>For Cast Iron Body, Add</i>	205.07 128.73	62.47
23 21 16 00-0208 EA 1-1/4" x 1-1/4" Threaded, Bronze Body, Temperature And Pressure Relief Valve <i>For Cast Iron Body, Add</i>	328.24 273.58	66.92
23 21 16 00-0209 EA 1-1/2" x 1-1/2" Threaded, Bronze Body, Temperature And Pressure Relief Valve <i>For Cast Iron Body, Add</i>	541.13 523.34	75.04
23 21 16 00-0210 EA 2" x 2" Threaded, Bronze Body, Temperature And Pressure Relief Valve..... <i>For Cast Iron Body, Add</i>	632.13 569.88	107.85
23 21 16 00-0211 Horizontal Steel Expansion Tanks (23 21 16)		
Note: ASME Code Stamp. 150 PSI with glass gauge and cocks.		
23 21 16 00-0212 EA 10 Gallon Horizontal Steel Expansion Tank.....	860.10	153.18
23 21 16 00-0213 EA 15 Gallon Horizontal Steel Expansion Tank.....	1,213.56	191.47
23 21 16 00-0214 EA 30 Gallon Horizontal Steel Expansion Tank.....	1,587.82	229.77
23 21 16 00-0215 EA 40 Gallon Horizontal Steel Expansion Tank.....	1,828.18	268.06
23 21 16 00-0216 EA 60 Gallon Horizontal Steel Expansion Tank.....	2,098.47	271.42



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 16 00-0217				Horizontal Diaphragm Type (Bladder) Steel Expansion Tanks ^(23 21 16)		
				Note: ASME. Precharged with working pressure 125 psi. Armstrong AX Series.		
	23 21 16 00-0218	EA		7.8 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank	1,646.35	114.88
	23 21 16 00-0219	EA		10.9 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank	1,725.80	134.04
	23 21 16 00-0220	EA		21.7 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank	2,551.09	153.18
	23 21 16 00-0221	EA		33.6 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank	2,662.03	172.32
	23 21 16 00-0222	EA		44.4 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank	3,589.02	191.47
	23 21 16 00-0223	EA		55.7 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank	3,789.55	210.62
	23 21 16 00-0224	EA		68.0 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank	4,496.17	229.77
	23 21 16 00-0225	EA		77.0 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank	4,812.94	248.91
	23 21 16 00-0226	EA		90.0 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank	5,301.63	268.06
	23 21 16 00-0227	EA		110.0 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank	5,465.40	306.36
	23 21 16 00-0228	EA		132.0 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank	6,837.49	344.65
	23 21 16 00-0229	EA		158.0 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank	7,834.25	382.95
	23 21 16 00-0230	EA		211.0 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank	9,101.32	459.53
23 21 16 00-0231				Vertical Diaphragm Type (Bladder) Steel Expansion Tanks (Armstrong AX) ^(23 21 16)		
				Note: ASME. Precharged with working pressure 125 psi		
	23 21 16 00-0232	EA		8.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....	1,869.13	114.88
	23 21 16 00-0233	EA		11.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....	1,936.47	134.04
	23 21 16 00-0234	EA		22.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....	2,754.50	153.18
	23 21 16 00-0235	EA		34.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....	2,945.34	172.32
	23 21 16 00-0236	EA		44.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....	3,731.88	191.47
	23 21 16 00-0237	EA		56.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....	3,929.99	210.62
	23 21 16 00-0238	EA		67.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....	4,779.49	229.77
	23 21 16 00-0239	EA		77.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....	5,166.48	248.91
	23 21 16 00-0240	EA		91.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....	5,710.87	268.06
	23 21 16 00-0241	EA		111.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....	5,867.37	306.36
	23 21 16 00-0242	EA		132.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....	7,203.14	344.65
	23 21 16 00-0243	EA		158.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....	8,350.03	382.95
	23 21 16 00-0244	EA		211.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....	9,626.78	459.53
23 21 16 00-0245				Diaphragm Type (Residential Style) Steel Expansion Tanks ^(23 21 16)		
	23 21 16 00-0246	EA		2.1 Gallon Diaphragm Type (Residential Style) Steel Expansion Tank (Watts DET-5-M1)	109.77	14.10
	23 21 16 00-0247	EA		4.5 Gallon Diaphragm Type (Residential Style) Steel Expansion Tank (Watts DET-12-M1)	154.73	14.10
23 21 16 00-0248				Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tanks ^(23 21 16)		
	23 21 16 00-0249	EA		15 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank.....	1,418.44	459.69
	23 21 16 00-0250	EA		20 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank.....	1,469.21	459.69
	23 21 16 00-0251	EA		30 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank.....	1,519.98	459.69
	23 21 16 00-0252	EA		40 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank.....	1,651.96	459.69
	23 21 16 00-0253	EA		47 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank.....	2,003.45	612.56
	23 21 16 00-0254	EA		60 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank.....	2,307.56	612.86
	23 21 16 00-0255	EA		80 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank.....	2,367.87	612.86
	23 21 16 00-0256	EA		87 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank.....	2,428.17	612.86
	23 21 16 00-0257	EA		120 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank.....	3,083.15	765.89
	23 21 16 00-0258	EA		187 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank.....	8,195.91	765.89
	23 21 16 00-0259	EA		264 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank.....	10,398.42	918.76
23 21 16 00-0260				ASME Construction Compression Tanks ^(23 21 16)		
				Note: With gauge glass taps, 125 PSI, 240 degree F tanks below are sized by capacity and diameter and height. See CSI section 22 12 00 00-0000 for other tanks.		
	23 21 16 00-0261	EA		15 Gallon, 13" x 34-1/2" ASME Construction Compression Tank.....	1,275.52	269.60
				<i>For Galvanized Steel Tanks, Add</i>	433.52	
	23 21 16 00-0262	EA		24 Gallon, 13" x 51" ASME Construction Compression Tank.....	1,301.05	277.25
				<i>For Galvanized Steel Tanks, Add</i>	439.91	
	23 21 16 00-0263	EA		30 Gallon, 13" x 61-1/2" ASME Construction Compression Tank.....	1,416.85	286.44
				<i>For Galvanized Steel Tanks, Add</i>	490.91	
	23 21 16 00-0264	EA		40 Gallon, 16-1/4" x 53" ASME Construction Compression Tank.....	1,548.43	297.17
				<i>For Galvanized Steel Tanks, Add</i>	548.28	
	23 21 16 00-0265	EA		60 Gallon, 16-1/4" x 76-1/2" ASME Construction Compression Tank.....	1,800.91	314.01
				<i>For Galvanized Steel Tanks, Add</i>	663.03	
	23 21 16 00-0266	EA		80 Gallon, 20-1/4" x 68" ASME Construction Compression Tank.....	1,871.19	326.27
				<i>For Galvanized Steel Tanks, Add</i>	688.54	
	23 21 16 00-0267	EA		100 Gallon, 20-1/4" x 82" ASME Construction Compression Tank.....	2,309.83	355.37
				<i>For Galvanized Steel Tanks, Add</i>	886.18	
	23 21 16 00-0268	EA		120 Gallon, 24-1/4" x 71-1/2" ASME Construction Compression Tank.....	2,516.11	381.41
				<i>For Galvanized Steel Tanks, Add</i>	969.04	
	23 21 16 00-0269	EA		144 Gallon, 24-1/4" x 83-1/2" ASME Construction Compression Tank.....	3,124.33	430.43
				<i>For Galvanized Steel Tanks, Add</i>	1,236.26	
	23 21 16 00-0270	EA		180 Gallon, 30" x 60" ASME Construction Compression Tank.....	3,960.37	493.23
				<i>For Galvanized Steel Tanks, Add</i>	1,606.58	
	23 21 16 00-0271	EA		202 Gallon, 30" x 72" ASME Construction Compression Tank.....	4,737.65	546.85
				<i>For Galvanized Steel Tanks, Add</i>	1,954.83	

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 20 HVAC Piping and Pumps

23 21 Hydronic Piping and Pumps



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 16 00-0272	EA		230 Gallon, 30" x 84" ASME Construction Compression Tank <i>For Galvanized Steel Tanks, Add</i>	5,180.49 2,139.72	594.33
23 21 16 00-0273	EA		280 Gallon, 30" x 96" ASME Construction Compression Tank <i>For Galvanized Steel Tanks, Add</i>	6,529.99 2,770.87	652.54
23 21 16 00-0274	EA		306 Gallon, 30" x 108" ASME Construction Compression Tank <i>For Galvanized Steel Tanks, Add</i>	6,740.64 2,842.12	696.96
23 21 16 00-0275	EA		340 Gallon, 36" x 84" ASME Construction Compression Tank <i>For Galvanized Steel Tanks, Add</i>	8,664.65 3,765.00	749.04
23 21 16 00-0276	EA		550 Gallon, 36" x 96" ASME Construction Compression Tank <i>For Galvanized Steel Tanks, Add</i>	14,378.12 6,523.07	879.24
23 21 16 00-0277 Compression Tank Air Fittings ^(23 21 16)					
23 21 16 00-0278	EA		9" To 24" Diameter Compression Tank Air Fittings	449.62	42.89
23 21 16 00-0279	EA		>100 Gallon Compression Tank Air Fittings	1,536.36	50.55
23 21 16 00-0280 Thermostatic Radiator Valves ^(23 21 16)					
Note: For hot water or two pipe low pressure steam.					
23 21 16 00-0281	EA		1/2" Straight Thermostatic Radiator Valve (Danfoss 013G8015)	96.88	24.71
23 21 16 00-0282	EA		3/4" Straight Thermostatic Radiator Valve (Danfoss 013G8020)	119.89	33.30
23 21 16 00-0283	EA		1" Straight Thermostatic Radiator Valve (Danfoss 013G8025)	157.15	40.32
23 21 16 00-0284	EA		1-1/4" Straight Thermostatic Radiator Valve (Danfoss 013G8032)	236.77	51.07
23 21 16 00-0285	EA		1/2" Angle Thermostatic Radiator Valve (Danfoss 013G8014)	96.88	24.71
23 21 16 00-0286	EA		3/4" Angle Thermostatic Radiator Valve (Danfoss 013G8019)	119.89	33.30
23 21 16 00-0287	EA		1" Angle Thermostatic Radiator Valve (Danfoss 013G8024)	157.15	40.32
23 21 16 00-0288	EA		1-1/4" Angle Thermostatic Radiator Valve (Danfoss 013G8031)	236.77	51.07
23 21 16 00-0289	EA		Tamper Resistant Valve Mounted Dial And Sensor Thermostatic Operator (Danfoss 013G8240)	95.25	19.14
23 21 16 00-0290	EA		Tamper Resistant Valve Mounted Dial With Remote Sensor Thermostatic Operator (Danfoss 013G2922)	156.94	26.81
23 21 16 00-0291 Radiator Trap Repair Kits ^(23 21 16)					
Note: For hot water or two pipe low pressure steam.					
23 21 16 00-0292	EA		1/2" Trap (Spirax-Sarco TH-125), Straight, Radiator Trap Repair Kit (Spirax-Sarco SH1031)	159.64	
23 21 16 00-0293	EA		3/4" Trap (Spirax-Sarco TH-125), Straight, Radiator Trap Repair Kit (Spirax-Sarco SH1032)	199.06	
23 21 16 00-0294	EA		1/2" Trap (Spirax-Sarco TH-125), Angle, Radiator Trap Repair Kit (Spirax-Sarco SH1026)	200.07	
23 21 16 00-0295	EA		3/4" Trap (Spirax-Sarco TH-125), Angle, Radiator Trap Repair Kit (Spirax-Sarco SH1027)	227.96	
23 21 16 00-0296	EA		1" Trap (Spirax-Sarco TH-125), Angle, Radiator Trap Repair Kit (Spirax-Sarco SH1028)	527.40	
23 21 16 00-0297 Vortex Air Separators With Strainer ^(23 21 16)					
Note: Separators are priced by capacity in gallons per minute and by boiler connection sizes and types.					
23 21 16 00-0298	EA		2" Threaded, 56 GPM, 125 PSI, With Strainer, Vortex Air Separator (Rolairtrol R-2N)	1,919.11	326.27
			<i>For 300 PSIG, Add</i>	213.75	
23 21 16 00-0299	EA		2-1/2" Threaded, 90 GPM, 125 PSI, With Strainer, Vortex Air Separator (Rolairtrol R-2-1/2N)	2,371.76	373.75
			<i>For 300 PSIG, Add</i>	270.66	
23 21 16 00-0300	EA		3" Threaded, 190 GPM, 125 PSI, With Strainer, Vortex Air Separator (Rolairtrol R-3N)	3,634.03	439.62
			<i>For 300 PSIG, Add</i>	445.21	
23 21 16 00-0301	EA		3" Flanged, 190 GPM, 125 PSI, With Strainer, Vortex Air Separator (Rolairtrol R-3F)	3,884.03	465.43
			<i>For 300 PSIG, Add</i>	476.82	
23 21 16 00-0302	EA		4" Flanged, 300 GPM, 125 PSI, With Strainer, Vortex Air Separator (Rolairtrol R-4F)	5,012.88	620.58
			<i>For 300 PSIG, Add</i>	610.89	
23 21 16 00-0303	EA		5" Flanged, 500 GPM, 125 PSI, With Strainer, Vortex Air Separator (Rolairtrol R-5F)	6,320.09	738.26
			<i>For 300 PSIG, Add</i>	780.37	
23 21 16 00-0304	EA		6" Flanged, 700 GPM, 125 PSI, With Strainer, Vortex Air Separator (Rolairtrol R-6F)	7,497.80	835.96
			<i>For 300 PSIG, Add</i>	934.68	
23 21 16 00-0305	EA		8" Flanged, 1,300 GPM, 125 PSI, With Strainer, Vortex Air Separator (Rolairtrol R-8F)	10,778.18	1,002.89
			<i>For 300 PSIG, Add</i>	1,388.74	
23 21 16 00-0306	EA		10" Flanged, 2,000 GPM, 125 PSI, With Strainer, Vortex Air Separator (Rolairtrol R-10F)	16,584.24	1,139.95
			<i>For 300 PSIG, Add</i>	2,228.56	
23 21 16 00-0307	EA		12" Flanged, 2,750 GPM, 125 PSI, With Strainer, Vortex Air Separator (Rolairtrol R-12F)	22,369.58	1,475.15
			<i>For 300 PSIG, Add</i>	3,020.16	
23 21 16 00-0308	EA		14" Flanged, 3400 GPM With Strainer, Vortex Air Separator (Rolairtrol R-14F)	46,580.95	1,791.35
			<i>For 300 PSIG, Add</i>	6,580.02	
23 21 16 00-0309	EA		16" Flanged, 4400 GPM With Strainer, Vortex Air Separator (Rolairtrol R-16F)	57,504.98	2,149.62
			<i>For 300 PSIG, Add</i>	8,137.20	
23 21 16 00-0310	EA		18" Flanged, 5200 GPM With Strainer, Vortex Air Separator (Rolairtrol R-16F)	75,024.83	2,507.89
			<i>For 300 PSIG, Add</i>	10,683.75	
23 21 16 00-0311	EA		20" Flanged, 6300 GPM With Strainer, Vortex Air Separator (Rolairtrol R-20F)	87,780.84	2,866.17
			<i>For 300 PSIG, Add</i>	12,515.72	
23 21 16 00-0312 Vortex Air Separators ^(23 21 16)					
Note: Without system strainer.					
23 21 16 00-0313	EA		2" Threaded, 56 GPM, 125 PSI, Vortex Air Separator (Rolairtrol RL-2N)	1,640.86	326.27
			<i>For 300 PSIG, Add</i>	172.01	
23 21 16 00-0314	EA		2-1/2" Threaded, 90 GPM, 125 PSI, Vortex Air Separator (Rolairtrol RL-2-1/2N)	2,068.21	373.75
			<i>For 300 PSIG, Add</i>	225.13	
23 21 16 00-0315	EA		3" Threaded, 190 GPM, 125 PSI, Vortex Air Separator (Rolairtrol RL-3N)	3,558.14	439.62
			<i>For 300 PSIG, Add</i>	433.82	
23 21 16 00-0316	EA		3" Flanged, 190 GPM, 125 PSI, Vortex Air Separator (Rolairtrol RL-3F)	3,217.91	465.43
			<i>For 300 PSIG, Add</i>	376.91	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 16 00-0317 EA 4" Flanged, 300 GPM, 125 PSI, Vortex Air Separator (Rolairtrol RL-4F).....	4,313.03	620.58
For 300 PSIG, Add	505.92	
23 21 16 00-0318 EA 5" Flanged, 530 GPM, 125 PSI, Vortex Air Separator (Rolairtrol RL-5F).....	5,586.52	738.26
For 300 PSIG, Add	670.34	
23 21 16 00-0319 EA 6" Flanged, 850 GPM, 125 PSI, Vortex Air Separator (Rolairtrol RL-6F).....	6,502.83	835.96
For 300 PSIG, Add	785.43	
23 21 16 00-0320 EA 8" Flanged, 1,900 GPM Vortex Air Separator (Rolairtrol RL-8F)	8,653.33	1,002.89
For 300 PSIG, Add	1,070.01	
23 21 16 00-0321 EA 10" Flanged, 3,600 GPM Vortex Air Separator (Rolairtrol RL-10F)	12,039.44	1,139.95
For 300 PSIG, Add	1,546.84	
23 21 16 00-0322 EA 12" Flanged, 4,800 GPM Vortex Air Separator (Rolairtrol RL-12F)	18,550.97	1,475.15
For 300 PSIG, Add	2,447.37	
23 21 16 00-0323 EA 14" Flanged, 6,100 GPM Vortex Air Separator (Rolairtrol RL-14F)	31,574.71	1,791.35
For 300 PSIG, Add	4,329.08	
23 21 16 00-0324 EA 16" Flanged, 8,000 GPM Vortex Air Separator (Rolairtrol RL-16F)	40,000.59	2,149.62
For 300 PSIG, Add	5,511.54	
23 21 16 00-0325 EA 18" Flanged, 9,700 GPM Vortex Air Separator (Rolairtrol RL-18F)	53,478.30	2,507.89
For 300 PSIG, Add	7,451.77	
23 21 16 00-0326 EA 20" Flanged, 12,000 GPM Vortex Air Separator (Rolairtrol RL-20F)	73,128.50	2,866.17
For 300 PSIG, Add	10,317.87	
23 21 16 00-0327 EA 22" Flanged, 15,000 GPM Vortex Air Separator (Rolairtrol RL-22F)	89,550.18	3,224.44
For 300 PSIG, Add	12,699.70	
23 21 16 00-0328 EA 24" Flanged, 17,000 GPM Vortex Air Separator (Rolairtrol RL-24F)	105,971.87	3,582.71
For 300 PSIG, Add	15,081.53	
23 21 16 00-0329 Grooved, With Strainer, Vortex Air Separators (23 21 16)		
23 21 16 00-0330 EA 3" Grooved, 190 GPM, With Strainer, Vortex Air Separator (Rolairtrol R-3G)	3,405.72	372.35
23 21 16 00-0331 EA 4" Grooved, 300 GPM, With Strainer, Vortex Air Separator (Rolairtrol R-4G)	4,824.36	496.15
23 21 16 00-0332 EA 5" Grooved, 500 GPM, With Strainer, Vortex Air Separator (Rolairtrol R-5G)	6,096.54	590.06
23 21 16 00-0333 EA 6" Grooved, 700 GPM, With Strainer, Vortex Air Separator (Rolairtrol R-6G)	7,244.38	668.77
23 21 16 00-0334 EA 8" Grooved, 1,300 GPM, With Strainer, Vortex Air Separator (Rolairtrol R-8G)	10,457.32	802.52
23 21 16 00-0335 EA 10" Grooved, 2,000 GPM, With Strainer, Vortex Air Separator (Rolairtrol R-10G)	16,896.46	911.97
23 21 16 00-0336 EA 12" Grooved, 2,750 GPM, With Strainer, Vortex Air Separator (Rolairtrol R-12G)	25,721.85	1,180.25
23 21 16 00-0337 Grooved Vortex Air Separators (23 21 16)		
Note: Without system strainer.		
23 21 16 00-0338 EA 3" Grooved, 190 GPM Vortex Air Separator (Rolairtrol RL-3G).....	2,714.30	372.35
23 21 16 00-0339 EA 4" Grooved, 300 GPM Vortex Air Separator (Rolairtrol RL-4G)	4,124.51	496.15
23 21 16 00-0340 EA 5" Grooved, 530 GPM Vortex Air Separator (Rolairtrol RL-5G)	5,362.97	590.06
23 21 16 00-0341 EA 6" Grooved, 850 GPM Vortex Air Separator (Rolairtrol RL-6G)	6,249.41	668.77
23 21 16 00-0342 EA 8" Grooved, 1,900 GPM Vortex Air Separator (Rolairtrol RL-8G)	8,349.34	802.52
23 21 16 00-0343 EA 10" Grooved, 3,600 GPM Vortex Air Separator (Rolairtrol RL-10G)	12,284.20	911.97
23 21 16 00-0344 EA 12" Grooved, 4,800 GPM Vortex Air Separator (Rolairtrol RL-12G)	20,402.87	1,180.25
23 21 16 00-0345 Removable Head, Air Eliminator And Dirt Separator (23 21 16)		
Note: Spirovent VDN.		
23 21 16 00-0346 EA 2", 45 GPM, Removable Head, Air Eliminator And Dirt Separator (Spirotherm VDN)	3,741.11	326.27
23 21 16 00-0347 EA 2-1/2", 70 GPM, Removable Head, Air Eliminator And Dirt Separator (Spirotherm VDN)	4,060.58	373.75
23 21 16 00-0348 EA 3", 95 GPM, Removable Head, Air Eliminator And Dirt Separator (Spirotherm VDN)	5,394.45	439.62
23 21 16 00-0349 EA 4", 170 GPM, Removable Head, Air Eliminator And Dirt Separator (Spirotherm VDN)	6,243.47	673.99
23 21 16 00-0350 EA 5", 260 GPM, Removable Head, Air Eliminator And Dirt Separator (Spirotherm VDN)	9,051.90	833.29
23 21 16 00-0351 EA 6", 375 GPM, Removable Head, Air Eliminator And Dirt Separator (Spirotherm VDN)	11,591.48	943.57
23 21 16 00-0352 EA 8", 625 GPM, Removable Head, Air Eliminator And Dirt Separator (Spirotherm VDN)	17,946.64	212.92
23 21 16 00-0353 EA 10", 950 GPM, Removable Head, Air Eliminator And Dirt Separator (Spirotherm VDN).....	26,324.11	1,286.70
23 21 16 00-0354 EA 12", 1,400 GPM, Removable Head, Air Eliminator And Dirt Separator (Spirotherm VDN).....	34,024.71	1,665.04
23 21 16 00-0355 Swivel Joints (23 21 16)		
23 21 16 00-0356 Carbon Steel, Straight Through Swivel Joint (Dixon Style 20) (23 21 16 00-0355)		
Note: Includes BUNA-N Seat. For oil, gasoline, water, air, gas, and chemicals.		
23 21 16 00-0357 EA 1" Threaded, Carbon Steel, Straight Through Swivel Joint (Dixon Style 20)	379.12	40.28
23 21 16 00-0358 EA 1-1/2" Threaded, Carbon Steel, Straight Through Swivel Joint (Dixon Style 20)	545.22	58.97
23 21 16 00-0359 EA 2" Threaded, Carbon Steel, Straight Through Swivel Joint (Dixon Style 20)	758.29	68.93
23 21 16 00-0360 EA 3" Threaded, Carbon Steel, Straight Through Swivel Joint (Dixon Style 20)	1,137.59	117.95
23 21 16 00-0361 EA 4" Threaded, Carbon Steel, Straight Through Swivel Joint (Dixon Style 20)	1,435.09	134.04
For Stainless Steel, Add	1,750.55	
23 21 16 00-0362 EA 2" Flanged, Carbon Steel, Straight Through Swivel Joint (Dixon Style 20).....	1,070.91	204.19
For Stainless Steel, Add	1,223.42	
23 21 16 00-0363 EA 3" Flanged, Carbon Steel, Straight Through Swivel Joint (Dixon Style 20).....	1,442.69	162.90
23 21 16 00-0364 EA 4" Flanged, Carbon Steel, Straight Through Swivel Joint (Dixon Style 20).....	1,867.88	436.55
23 21 16 00-0365 EA 6" Flanged, Carbon Steel, Straight Through Swivel Joint (Dixon Style 20).....	3,390.79	551.44
23 21 16 00-0366 Carbon Steel, Single Swivel/Single Elbow Swivel Joint (Dixon Style 30) (23 21 16 00-0355)		
Note: Includes BUNA-N Seat. For oil, gasoline, water, air, gas, and chemicals.		
23 21 16 00-0367 EA 1" Threaded, Carbon Steel, Single Swivel/Single Elbow Swivel Joint (Dixon Style 30)	477.30	40.28
For Stainless Steel, Add	595.02	

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 20 HVAC Piping and Pumps

23 21 Hydronic Piping and Pumps



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 16 00-0368 EA 1-1/2" Threaded, Carbon Steel, Single Swivel/Single Elbow Swivel Joint (Dixon Style 30).....	591.59	58.97
<i>For Stainless Steel, Add</i>	710.64	
23 21 16 00-0369 EA 2" Threaded, Carbon Steel, Single Swivel/Single Elbow Swivel Joint (Dixon Style 30).....	792.69	68.93
<i>For Stainless Steel, Add</i>	980.16	
23 21 16 00-0370 EA 3" Threaded, Carbon Steel, Single Swivel/Single Elbow Swivel Joint (Dixon Style 30).....	1,276.71	117.95
<i>For Stainless Steel, Add</i>	1,561.58	
23 21 16 00-0371 EA 4" Threaded, Carbon Steel, Single Swivel/Single Elbow Swivel Joint (Dixon Style 30).....	1,662.31	134.04
<i>For Stainless Steel, Add</i>	2,091.38	
23 21 16 00-0372 EA 2" Flanged, Carbon Steel, Single Swivel/Single Elbow Swivel Joint (Dixon Style 30).....	1,102.35	204.19
<i>For Stainless Steel, Add</i>	1,270.58	
23 21 16 00-0373 EA 3" Flanged, Carbon Steel, Single Swivel/Single Elbow Swivel Joint (Dixon Style 30).....	1,622.78	162.90
<i>For Stainless Steel, Add</i>	1,945.31	
23 21 16 00-0374 EA 4" Flanged, Carbon Steel, Single Swivel/Single Elbow Swivel Joint (Dixon Style 30).....	2,075.78	436.55
<i>For Stainless Steel, Add</i>	2,293.08	
23 21 16 00-0375 EA 6" Flanged, Carbon Steel, Single Swivel/Single Elbow Swivel Joint (Dixon Style 30).....	3,534.36	551.44
<i>For Stainless Steel, Add</i>	4,263.89	
23 21 16 00-0376 Carbon Steel, Single Swivel/Double Elbow Swivel Joint (Dixon Style 40) (23 21		
<small>16 00-0355)</small>		
<small>Note: Includes BUNA-N Seat. For oil, gasoline, water, air, gas, and chemicals.</small>		
23 21 16 00-0377 EA 1" Threaded, Carbon Steel, Single Swivel/Double Elbow Swivel Joint (Dixon Style 40).....	558.32	40.28
<i>For Stainless Steel, Add</i>	716.55	
23 21 16 00-0378 EA 1-1/2" Threaded, Carbon Steel, Single Swivel/Double Elbow Swivel Joint (Dixon Style 40).....	653.42	58.97
<i>For Stainless Steel, Add</i>	803.39	
23 21 16 00-0379 EA 2" Threaded, Carbon Steel, Single Swivel/Double Elbow Swivel Joint (Dixon Style 40).....	948.10	68.93
<i>For Stainless Steel, Add</i>	1,213.28	
23 21 16 00-0380 EA 3" Threaded, Carbon Steel, Single Swivel/Double Elbow Swivel Joint (Dixon Style 40).....	1,463.74	117.95
<i>For Stainless Steel, Add</i>	1,842.12	
23 21 16 00-0381 EA 4" Threaded, Carbon Steel, Single Swivel/Double Elbow Swivel Joint (Dixon Style 40).....	1,724.14	134.04
<i>For Stainless Steel, Add</i>	2,184.12	
23 21 16 00-0382 EA 2" Flanged, Carbon Steel, Single Swivel/Double Elbow Swivel Joint (Dixon Style 40).....	1,256.93	204.19
<i>For Stainless Steel, Add</i>	1,502.45	
23 21 16 00-0383 EA 3" Flanged, Carbon Steel, Single Swivel/Double Elbow Swivel Joint (Dixon Style 40).....	1,814.44	162.90
<i>For Stainless Steel, Add</i>	2,232.80	
23 21 16 00-0384 EA 4" Flanged, Carbon Steel, Single Swivel/Double Elbow Swivel Joint (Dixon Style 40).....	2,273.63	436.55
<i>For Stainless Steel, Add</i>	2,589.86	
23 21 16 00-0385 EA 6" Flanged, Carbon Steel, Single Swivel/Double Elbow Swivel Joint (Dixon Style 40).....	3,959.43	551.44
<i>For Stainless Steel, Add</i>	4,901.49	
23 21 16 00-0386 Basket Strainers (23 21 16)		
23 21 16 00-0387 Bronze Body Basket Strainers (23 21 16 00-0386)		
23 21 16 00-0388 Screwed Ends, Bronze Body Basket Strainers (23 21 16 00-0387)		
23 21 16 00-0389 EA 1/2" Screwed Ends, Bronze Body Basket Strainer.....	326.89	30.64
<i>For Work In Restricted Working Space, Add</i>	18.23	
23 21 16 00-0390 EA 3/4" Screwed Ends, Bronze Body Basket Strainer.....	386.23	36.00
<i>For Work In Restricted Working Space, Add</i>	21.43	
23 21 16 00-0391 EA 1" Screwed Ends, Bronze Body Basket Strainer.....	448.61	42.89
<i>For Work In Restricted Working Space, Add</i>	25.53	
23 21 16 00-0392 EA 1-1/4" Screwed Ends, Bronze Body Basket Strainer.....	555.79	47.48
<i>For Work In Restricted Working Space, Add</i>	28.46	
23 21 16 00-0393 EA 1-1/2" Screwed Ends, Bronze Body Basket Strainer.....	654.99	53.61
<i>For Work In Restricted Working Space, Add</i>	32.14	
23 21 16 00-0394 EA 2" Screwed Ends, Bronze Body Basket Strainer.....	966.22	61.28
<i>For Work In Restricted Working Space, Add</i>	36.80	
23 21 16 00-0395 EA 2-1/2" Screwed Ends, Bronze Body Basket Strainer.....	1,364.41	81.95
<i>For Work In Restricted Working Space, Add</i>	49.29	
23 21 16 00-0396 EA 3" Screwed Ends, Bronze Body Basket Strainer.....	1,904.85	87.31
<i>For Work In Restricted Working Space, Add</i>	52.28	
23 21 16 00-0397 Flanged, Bronze Body Basket Strainers (23 21 16 00-0387)		
23 21 16 00-0398 EA 2" Flanged, Bronze Body Basket Strainer.....	1,533.66	204.19
<i>For Work In Restricted Working Space, Add</i>	76.59	
23 21 16 00-0399 EA 2-1/2" Flanged, Bronze Body Basket Strainer.....	2,278.67	222.11
<i>For Work In Restricted Working Space, Add</i>	83.55	
23 21 16 00-0400 EA 3" Flanged, Bronze Body Basket Strainer.....	2,586.96	260.40
<i>For Work In Restricted Working Space, Add</i>	97.77	
23 21 16 00-0401 EA 4" Flanged, Bronze Body Basket Strainer.....	4,373.45	436.55
<i>For Work In Restricted Working Space, Add</i>	164.12	
23 21 16 00-0402 EA 6" Flanged, Bronze Body Basket Strainer.....	8,178.70	488.55
<i>For Work In Restricted Working Space, Add</i>	183.86	
23 21 16 00-0403 EA 8" Flanged, Bronze Body Basket Strainer.....	14,820.09	624.26
<i>For Work In Restricted Working Space, Add</i>	232.64	
23 21 16 00-0404 Iron Body Basket Strainers (23 21 16 00-0386)		
23 21 16 00-0405 Screwed Ends, Iron Body Basket Strainers (23 21 16 00-0404)		
23 21 16 00-0406 EA 1/2" Screwed Ends, Iron Body Basket Strainer.....	386.05	30.64
<i>For Work In Restricted Working Space, Add</i>	18.23	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 16 00-0407 EA 3/4" Screwed Ends, Iron Body Basket Strainer..... <i>For Work In Restricted Working Space, Add</i>	435.48 21.43	36.00
23 21 16 00-0408 EA 1" Screwed Ends, Iron Body Basket Strainer..... <i>For Work In Restricted Working Space, Add</i>	514.81 25.53	42.89
23 21 16 00-0409 EA 1-1/4" Screwed Ends, Iron Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	670.81 28.46	47.48
23 21 16 00-0410 EA 1-1/2" Screwed Ends, Iron Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	736.76 32.14	53.61
23 21 16 00-0411 EA 2" Screwed Ends, Iron Body Basket Strainer..... <i>For Work In Restricted Working Space, Add</i>	874.66 36.80	61.28
23 21 16 00-0412 EA 2-1/2" Screwed Ends, Iron Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	1,238.58 49.29	81.95
23 21 16 00-0413 EA 3" Screwed Ends, Iron Body Basket Strainer..... <i>For Work In Restricted Working Space, Add</i>	1,397.76 52.28	87.31
23 21 16 00-0414 Flanged, Iron Body Basket Strainers (23 21 16 00-0404)		
23 21 16 00-0415 EA 2" Flanged, Iron Body Basket Strainer..... <i>For Work In Restricted Working Space, Add</i>	1,035.37 76.59	204.19
23 21 16 00-0416 EA 2-1/2" Flanged, Iron Body Basket Strainer..... <i>For Work In Restricted Working Space, Add</i>	1,329.91 83.55	222.11
23 21 16 00-0417 EA 3" Flanged, Iron Body Basket Strainer..... <i>For Work In Restricted Working Space, Add</i>	1,445.15 97.77	260.40
23 21 16 00-0418 EA 4" Flanged, Iron Body Basket Strainer..... <i>For Work In Restricted Working Space, Add</i>	2,231.57 164.12	436.55
23 21 16 00-0419 EA 6" Flanged, Iron Body Basket Strainer..... <i>For Work In Restricted Working Space, Add</i>	3,891.45 183.86	488.55
23 21 16 00-0420 EA 8" Flanged, Iron Body Basket Strainer..... <i>For Work In Restricted Working Space, Add</i>	6,823.88 232.64	624.26
23 21 16 00-0421 EA 10" Flanged, Iron Body Basket Strainer..... <i>For Work In Restricted Working Space, Add</i>	10,050.83 284.99	759.97
23 21 16 00-0422 EA 12" Flanged, Iron Body Basket Strainer..... <i>For Work In Restricted Working Space, Add</i>	12,712.69 574.80	958.11
23 21 16 00-0423 EA 14" Flanged, Iron Body Basket Strainer..... <i>For Work In Restricted Working Space, Add</i>	14,980.12 407.12	1,085.67
23 21 16 00-0424 EA 16" Flanged, Iron Body Basket Strainer..... <i>For Work In Restricted Working Space, Add</i>	15,737.64 447.84	1,194.23
23 21 16 00-0425 Cast Steel Body Basket Strainers (23 21 16 00-0386)		
23 21 16 00-0426 Screwed Ends, Cast Steel Body Basket Strainers (23 21 16 00-0425)		
23 21 16 00-0427 EA 1" Screwed Ends, Cast Steel Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	1,870.34 25.53	42.89
23 21 16 00-0428 EA 1-1/4" Screwed Ends, Cast Steel Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	2,477.72 28.46	47.48
23 21 16 00-0429 EA 1-1/2" Screwed Ends, Cast Steel Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	2,792.51 32.13	53.61
23 21 16 00-0430 EA 2" Screwed Ends, Cast Steel Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	3,942.77 36.80	61.28
23 21 16 00-0431 EA 2-1/2" Screwed Ends, Cast Steel Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	5,535.13 49.28	81.95
23 21 16 00-0432 EA 3" Screwed Ends, Cast Steel Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	7,209.36 52.29	87.31
23 21 16 00-0433 Flanged, Cast Steel Body Basket Strainers (23 21 16 00-0425)		
23 21 16 00-0434 EA 2" Flanged, Cast Steel Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	5,815.26 76.59	204.19
23 21 16 00-0435 EA 2-1/2" Flanged, Cast Steel Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	8,410.43 83.55	222.11
23 21 16 00-0436 EA 3" Flanged, Cast Steel Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	9,214.29 97.77	260.40
23 21 16 00-0437 EA 4" Flanged, Cast Steel Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	13,028.61 164.12	436.55
23 21 16 00-0438 EA 6" Flanged, Cast Steel Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	23,117.49 183.86	488.55
23 21 16 00-0439 EA 8" Flanged, Cast Steel Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	37,652.78 232.64	624.26
23 21 16 00-0440 Stainless Steel Body Basket Strainers (23 21 16 00-0386)		
23 21 16 00-0441 Screwed Ends, Stainless Steel Body Basket Strainers (23 21 16 00-0440)		
23 21 16 00-0442 EA 1" Screwed Ends, Stainless Steel Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	584.32 25.53	42.89
23 21 16 00-0443 EA 1-1/4" Screwed Ends, Stainless Steel Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	833.82 28.46	47.48
23 21 16 00-0444 EA 1-1/2" Screwed Ends, Stainless Steel Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	863.33 32.13	53.61
23 21 16 00-0445 EA 2" Screwed Ends, Stainless Steel Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	1,266.91 36.80	61.28
23 21 16 00-0446 EA 2-1/2" Screwed Ends, Stainless Steel Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	1,787.98 49.28	81.95

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 16 00-0447 EA 3" Screwed Ends, Stainless Steel Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	2,509.77 52.29	87.31
23 21 16 00-0448 Flanged, Stainless Steel Body Basket Strainers (23 21 16 00-0440)		
23 21 16 00-0449 EA 2" Flanged, Stainless Steel Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	1,958.08 76.59	204.19
23 21 16 00-0450 EA 2-1/2" Flanged, Stainless Steel Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	2,930.31 83.55	222.11
23 21 16 00-0451 EA 3" Flanged, Stainless Steel Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	3,321.23 97.77	260.40
23 21 16 00-0452 EA 4" Flanged, Stainless Steel Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	5,613.40 164.12	436.55
23 21 16 00-0453 EA 6" Flanged, Stainless Steel Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	8,521.31 183.86	488.55
23 21 16 00-0454 EA 8" Flanged, Stainless Steel Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	14,714.09 232.64	624.26
23 21 16 00-0455 Air Vents (23 21 16)		
23 21 16 00-0456 Screwed Ends, Cast Iron, Automatic Air Vents (23 21 16 00-0455) Note: With guided free floating lever.		
23 21 16 00-0457 EA 1/2" NPT, Cast Iron, Automatic Air Vent	402.75	44.42
23 21 16 00-0458 EA 3/4" NPT, Cast Iron, Automatic Air Vent	493.49	58.97
23 21 16 00-0459 EA 1" NPT, Cast Iron, Automatic Air Vent	1,116.90	61.28
23 21 16 00-0460 EA 1-1/4" NPT, Cast Iron, Automatic Air Vent	1,656.57	94.66
23 21 16 00-0461 EA 1-1/2" NPT, Cast Iron, Automatic Air Vent	2,755.96	101.86
23 21 16 00-0462 EA 2" NPT, Cast Iron, Automatic Air Vent	3,166.41	134.34
23 21 16 00-0463 Forged Steel, Stainless Steel Internals, Automatic Air Vents (23 21 16 00-0455) Note: With guided free floating lever.		
23 21 16 00-0464 EA 1/2" NPT, Forged Steel, Stainless Steel Internals, Automatic Air Vent	2,498.45	51.31
23 21 16 00-0465 EA 3/4" NPT, Forged Steel, Stainless Steel Internals, Automatic Air Vent	3,130.61	58.97
23 21 16 00-0466 EA 1" NPT, Forged Steel, Stainless Steel Internals, Automatic Air Vent	3,734.39	61.28
23 21 16 00-0467 EA 1-1/4" NPT, Forged Steel, Stainless Steel Internals, Automatic Air Vent	6,126.49	94.97
23 21 16 00-0468 EA 1-1/2" NPT, Forged Steel, Stainless Steel Internals, Automatic Air Vent	7,074.95	101.86
23 21 16 00-0469 EA 2" NPT, Forged Steel, Stainless Steel Internals, Automatic Air Vent	10,399.23	134.04
23 21 16 00-0470 Automatic Air Vent (23 21 16 00-0455)		
23 21 16 00-0471 EA 3/4" NPT, Brass, Automatic Air Eliminator (Spirotherm VJR)	275.20	58.97
23 21 16 00-0472 EA 1" NPT, Brass, Automatic Air Eliminator (Spirotherm VJR)	299.88	61.28
23 21 16 00-0473 EA 1-1/4" NPT, Brass, Automatic Air Eliminator (Spirotherm VJR)	428.12	94.66
23 21 16 00-0474 EA 1-1/2" NPT, Brass, Automatic Air Eliminator (Spirotherm VJR)	522.53	101.86
23 21 16 00-0475 EA 2" NPT, Brass, Automatic Air Eliminator (Spirotherm VJR)	657.95	109.77
23 21 16 00-0476 Manual Air Vent (23 21 16 00-0455)		
23 21 16 00-0477 EA Manual Air Vent	101.39	55.29
23 21 16 00-0478 Air Release Valves (23 21 16 00-0455)		
23 21 16 00-0479 Simple Lever, Cast Iron, Clean Water Air Release Valves (Apco 50) (23 21 16 00-0478) Note: Up to 175 psi. Stainless steel float.		
23 21 16 00-0480 EA 1/2" NPT, Simple Lever, Cast Iron, Clean Water Air Release Valves (Apco 50)	208.95	22.98
23 21 16 00-0481 EA 3/4" NPT, Simple Lever, Cast Iron, Clean Water Air Release Valves (Apco 50)	215.08	26.04
23 21 16 00-0482 EA 1" NPT, Simple Lever, Cast Iron, Clean Water Air Release Valves (Apco 50)	227.33	32.17
23 21 16 00-0483 Cast Iron, Compound Lever, Clean Water Air Release Valves (Apco 200) (23 21 16 00-0478) Note: Up to 175 psi. Stainless steel float.		
23 21 16 00-0484 EA 1" NPT, Cast Iron, Compound Lever, Clean Water Air Release Valves (Apco 200A)	826.03	32.17
23 21 16 00-0485 EA 2" NPT, Cast Iron, Compound Lever, Clean Water Air Release Valves (Apco 200)	999.26	55.91
23 21 16 00-0486 EA 3" Flanged, Cast Iron, Compound Lever, Clean Water Air Release Valves (Apco 200)	1,314.30	130.36
23 21 16 00-0487 Cast Iron, Air/Vacuum Valves (23 21 16 00-0478) Note: Up to 150 psi. Stainless steel float.		
23 21 16 00-0488 EA 1/2" NPT, Cast Iron, Air/Vacuum Valve (Apco 141)	403.00	22.98
23 21 16 00-0489 EA 1" NPT, Cast Iron, Air/Vacuum Valve (Apco 142)	499.00	32.17
23 21 16 00-0490 EA 2" NPT, Cast Iron, Air/Vacuum Valve (Apco 144)	862.14	55.91
23 21 16 00-0491 EA 3" Flanged, Cast Iron, Air/Vacuum Valve (Apco 146)	1,252.20	130.36
23 21 16 00-0492 EA 4" Flanged, Cast Iron, Air/Vacuum Valve (Apco 152)	1,963.04	218.83
23 21 16 00-0493 EA 6" Flanged, Cast Iron, Air/Vacuum Valve (Apco 153)	2,972.00	276.71



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
-------	-----	-----	-------------	------------------------	----------------------

23 21 16 00-0494			Ductile Iron, Combination Air Release And Vacuum Valves, Single Body Double Orifice <small>(23 21 16 00-0478)</small> Note: Up to 150 psi. Stainless Steel float.		
23 21 16 00-0495	EA		1" NPT, Ductile Iron, Combination Air Release And Vacuum Valves, Single Body Double Orifice (Apco 143C).....	716.33	32.17
23 21 16 00-0496	EA		2" NPT, Ductile Iron, Combination Air Release And Vacuum Valves, Single Body Double Orifice (Apco 145C).....	1,102.76	55.91
23 21 16 00-0497	EA		3" Flanged, Ductile Iron, Combination Air Release And Vacuum Valves, Single Body Double Orifice (Apco 147C).....	2,015.46	130.36
23 21 16 00-0498	EA		4" Flanged, Ductile Iron, Combination Air Release And Vacuum Valves, Single Body Double Orifice (Apco 149C).....	2,627.97	218.83

23 21 23 Hydronic Pumps (23 21)

23 21 23 13 In-Line Centrifugal Hydronic Pumps (23 21 23)

23 21 23 13-0001			Cast Iron Single Stage In-Line Centrifugal Pump <small>(23 21 23 13)</small> Note: For general service, 125 LB flanged, 3550 RPM TEFC motor. Includes packed stuffing boxes and ductile iron case.		
23 21 23 13-0002	EA		3 HP, 50 GPM At 100' Head, Single Stage Cast Iron In-Line Circulating Pump	6,479.41	409.02
			<i>For Mechanical Seal, Add</i>	420.24	
			<i>For Cast Steel Case, Add</i>	945.54	
23 21 23 13-0003	EA		5 HP, 75 GPM At 100' Head, Single Stage Cast Iron In-Line Circulating Pump	7,115.94	495.05
			<i>For Mechanical Seal, Add</i>	450.51	
			<i>For Cast Steel Case, Add</i>	1,013.64	
23 21 23 13-0004	EA		7-1/2 HP, 100 GPM At 150' Head, Single Stage Cast Iron In-Line Circulating Pump	8,238.28	588.13
			<i>For Mechanical Seal, Add</i>	518.02	
			<i>For Cast Steel Case, Add</i>	1,165.55	
23 21 23 13-0005	EA		10 HP, 125 GPM At 150' Head, Single Stage Cast Iron In-Line Circulating Pump	9,333.05	784.18
			<i>For Mechanical Seal, Add</i>	558.59	
			<i>For Cast Steel Case, Add</i>	1,256.83	
23 21 23 13-0006	EA		15 HP, 150 GPM At 200' Head, Single Stage Cast Iron In-Line Circulating Pump	10,662.70	854.70
			<i>For Mechanical Seal, Add</i>	647.87	
			<i>For Cast Steel Case, Add</i>	1,457.70	
23 21 23 13-0007	EA		30 HP, 200 GPM At 300' Head, Single Stage Cast Iron In-Line Circulating Pump	15,654.95	940.73
			<i>For Mechanical Seal, Add</i>	1,026.73	
			<i>For Cast Steel Case, Add</i>	2,310.15	
23 21 23 13-0008	EA		40 HP, 250 GPM At 300' Head, Single Stage Cast Iron In-Line Circulating Pump	18,455.32	1,174.86
			<i>For Mechanical Seal, Add</i>	1,194.35	
			<i>For Cast Steel Case, Add</i>	2,687.28	
23 21 23 13-0009	EA		50 HP, 300 GPM At 300' Head, Single Stage Cast Iron In-Line Circulating Pump	25,427.46	1,342.70
			<i>For Mechanical Seal, Add</i>	1,711.82	
			<i>For Cast Steel Case, Add</i>	3,851.60	
23 21 23 13-0010	EA		75 HP, 400 GPM At 400' Head, Single Stage Cast Iron In-Line Circulating Pump	32,088.22	1,407.30
			<i>For Mechanical Seal, Add</i>	2,229.29	
			<i>For Cast Steel Case, Add</i>	5,015.91	
23 21 23 13-0011	EA		100 HP, 600 GPM At 400' Head, Single Stage Cast Iron In-Line Circulating Pump	35,267.78	1,808.99
			<i>For Mechanical Seal, Add</i>	2,387.16	
			<i>For Cast Steel Case, Add</i>	5,371.10	

23 21 23 13-0012 Cast Iron, Single Stage, Vertical In-Line, Close Coupled, Pump (23 21 23 13)

			Note: For general service, 125 LB flanged, 1,800 RPM TEFC motor.		
23 21 23 13-0013	EA		1/2 HP, 1-1/2" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	2,219.56	234.83
23 21 23 13-0014	EA		3/4 HP, 2" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	3,786.55	268.40
23 21 23 13-0015	EA		1 HP, 3" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	4,123.67	300.55
23 21 23 13-0016	EA		1-1/2 HP, 3" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	4,346.45	326.79
23 21 23 13-0017	EA		2 HP, 4" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	5,617.67	357.82
23 21 23 13-0018	EA		3 HP, 5" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	5,802.89	395.48
23 21 23 13-0019	EA		5 HP, 6" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	6,650.57	469.66
23 21 23 13-0020	EA		7-1/2 HP, 6" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	7,769.32	578.12
23 21 23 13-0021	EA		10 HP, 8" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	9,884.96	626.21
23 21 23 13-0022	EA		15 HP, 8" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	11,486.00	663.03
23 21 23 13-0023	EA		20 HP, 8" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	14,615.09	704.49
23 21 23 13-0024	EA		25 HP, 8" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	15,406.73	728.05
23 21 23 13-0025	EA		30 HP, 8" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	16,198.38	751.46
23 21 23 13-0026	EA		40 HP, 8" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	19,147.93	805.20
23 21 23 13-0027	EA		50 HP, 8" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	20,485.13	834.21
23 21 23 13-0028	EA		60 HP, 8" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	22,848.40	1,204.91
23 21 23 13-0029	EA		75 HP, 8" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	27,716.63	2,409.83
23 21 23 13-0030	EA		100 HP, 8" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	31,952.36	2,891.79

23 21 23 16 Base-Mounted, Centrifugal Hydronic Pumps (23 21 23)

			See CSI section 26 29 23 00-0000 for variable frequency motor controllers.		
23 21 23 16-0001			Single Stage, Cast Iron, Horizontal End Suction, Base Mounted Centrifugal Pump <small>(23 21 23 16)</small> Note: 1800 RPM, welded steel baseplate, internally flushed mechanical seal, bronze wear ring, galvanized drip pan, and 3 phase 230/460V premium efficiency motor. Bell & Gossett 1510 Series.		
23 21 23 16-0002	EA		5 HP, 50 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 1-1/4 BC, BF, 184T).....	7,575.19	447.09
23 21 23 16-0003	EA		7.5 HP, 100 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 1-1/2 BC, BF, 213T).....	8,489.07	447.66
23 21 23 16-0004	EA		10 HP, 225 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 2 E, BF, 215T).....	11,183.93	588.13
23 21 23 16-0005	EA		15 HP, 250 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 2 E, BF, 254T).....	12,275.28	723.53
23 21 23 16-0006	EA		15 HP, 300 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 3 G, BF, 254T).....	13,718.91	723.53
23 21 23 16-0007	EA		20 HP, 350 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 3 E, BF, 256T).....	13,364.45	784.18

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 20 HVAC Piping and Pumps

23 21 Hydronic Piping and Pumps



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 23 16-0008	EA		20 HP, 500 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 4 E, BF, 256T).....	14,185.22	784.18
23 21 23 16-0009	EA		25 HP, 600 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 4 E, BF, 284T).....	15,495.54	822.26
23 21 23 16-0010	EA		30 HP, 750 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 5 E, BF, 286T).....	17,275.35	1,045.10
23 21 23 16-0011	EA		40 HP, 1,050 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 5 E, BF, 324T).....	18,299.73	1,174.86
23 21 23 16-0012	EA		60 HP, 1,500 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 6 E, BF, 364T).....	27,583.34	2,533.30
23 21 23 16-0013	EA		75 HP, 2,000 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 8 G, BF, 365T).....	39,975.62	3,039.42
23 21 23 16-0014	EA		100 HP, 3,000 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 8 G, BF, 404TS).....	45,344.21	3,799.28

23 21 23 16-0015 Single Stage, Vertical Split Case, Cast Iron, Horizontal End Suction, Base Mounted Centrifugal Pump (23 21 23 16)

Note: 125 LB flanged, 1750 RPM drip-proof motor, common base plate 100' head. Standard seal and motor. For general service.

23 21 23 16-0016	EA		1-1/2 HP, 40 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case.....	5,881.73	328.62
			<i>For 300 LB Flanges, Add</i>	1,322.28	
23 21 23 16-0017	EA		2 HP, 50 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case.....	7,369.93	352.60
			<i>For 300 LB Flanges, Add</i>	1,710.26	
23 21 23 16-0018	EA		3 HP, 90 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case.....	9,218.26	376.57
			<i>For 300 LB Flanges, Add</i>	2,147.86	
23 21 23 16-0019	EA		5 HP, 100 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case.....	10,793.03	447.09
			<i>For 300 LB Flanges, Add</i>	2,496.77	
23 21 23 16-0020	EA		7-1/2 HP, 150 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case.....	11,342.84	447.66
			<i>For 300 LB Flanges, Add</i>	2,624.15	
23 21 23 16-0021	EA		10 HP, 200 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case.....	11,949.21	588.13
			<i>For 300 LB Flanges, Add</i>	2,722.85	
23 21 23 16-0022	EA		10 HP, 225 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case.....	12,203.03	588.13
			<i>For 300 LB Flanges, Add</i>	2,786.31	
23 21 23 16-0023	EA		10 HP, 250 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case.....	12,765.26	588.13
			<i>For 300 LB Flanges, Add</i>	2,926.87	
23 21 23 16-0024	EA		15 HP, 300 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case.....	14,858.90	723.53
			<i>For 300 LB Flanges, Add</i>	3,389.25	
23 21 23 16-0025	EA		17-1/2 HP, 350 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case.....	15,106.84	722.97
			<i>For 300 LB Flanges, Add</i>	3,438.11	
23 21 23 16-0026	EA		20 HP, 500 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case.....	15,914.83	784.18
			<i>For 300 LB Flanges, Add</i>	3,626.11	
23 21 23 16-0027	EA		25 HP, 600 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case.....	17,450.35	822.26
			<i>For 300 LB Flanges, Add</i>	3,981.81	
23 21 23 16-0028	EA		30 HP, 750 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case.....	19,393.73	1,045.10
			<i>For 300 LB Flanges, Add</i>	4,378.30	
23 21 23 16-0029	EA		40 HP, 1,050 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case.....	21,990.77	1,174.86
			<i>For 300 LB Flanges, Add</i>	4,968.80	
23 21 23 16-0030	EA		60 HP, 1,500 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case.....	34,528.45	2,533.30
			<i>For 300 LB Flanges, Add</i>	7,410.92	
23 21 23 16-0031	EA		75 HP, 2,000 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case.....	41,087.95	3,039.42
			<i>For 300 LB Flanges, Add</i>	8,806.55	
23 21 23 16-0032	EA		100 HP, 3,000 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case.....	50,184.67	3,799.28
			<i>For 300 LB Flanges, Add</i>	10,714.37	

23 21 23 16-0033 Single Stage, Horizontal Split Case, Cast Iron, Horizontal End Suction, Base Mounted Centrifugal Pump (23 21 23 16)

Note: 125 LB flanged, 1750 RPM drip-proof motor, common base plate 100' head. Standard seal and motor. For general service.

23 21 23 16-0034	EA		1-1/2 HP, 40 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case.....	5,663.68	328.62
			<i>For 300 LB Flanges, Add</i>	1,267.77	
23 21 23 16-0035	EA		2 HP, 50 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case.....	5,829.03	352.60
			<i>For 300 LB Flanges, Add</i>	1,298.57	
23 21 23 16-0036	EA		3 HP, 90 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case.....	5,994.56	376.57
			<i>For 300 LB Flanges, Add</i>	1,329.39	
23 21 23 16-0037	EA		5 HP, 100 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case.....	6,487.91	385.03
			<i>For 300 LB Flanges, Add</i>	1,448.57	
23 21 23 16-0038	EA		7-1/2 HP, 100 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case.....	10,399.86	447.09
			<i>For 300 LB Flanges, Add</i>	2,398.48	
23 21 23 16-0039	EA		10 HP, 250 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case.....	12,563.61	588.13
			<i>For 300 LB Flanges, Add</i>	2,912.24	
23 21 23 16-0040	EA		15 HP, 350 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case.....	14,143.87	634.68
			<i>For 300 LB Flanges, Add</i>	3,271.52	
23 21 23 16-0041	EA		20 HP, 500 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case.....	15,061.39	705.20
			<i>For 300 LB Flanges, Add</i>	3,439.87	
23 21 23 16-0042	EA		25 HP, 750 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case.....	16,669.72	704.32
			<i>For 300 LB Flanges, Add</i>	3,850.78	
23 21 23 16-0043	EA		40 HP, 1,000 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case.....	18,794.82	905.17
			<i>For 300 LB Flanges, Add</i>	4,291.58	
23 21 23 16-0044	EA		50 HP, 1,500 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case.....	23,572.62	1,013.59
			<i>For 300 LB Flanges, Add</i>	5,404.68	
23 21 23 16-0045	EA		75 HP, 2,000 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case.....	30,065.30	1,265.98
			<i>For 300 LB Flanges, Add</i>	6,905.73	
23 21 23 16-0046	EA		3,000 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case, 100 HP.....	37,752.00	1,519.71
			<i>For 300 LB Flanges, Add</i>	8,705.28	
23 21 23 16-0047	EA		150 HP, 3,500 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case.....	44,651.92	1,687.97
			<i>For 300 LB Flanges, Add</i>	10,348.85	
23 21 23 16-0048	EA		200 HP, 4,000 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case.....	51,570.29	2,171.01
			<i>For 300 LB Flanges, Add</i>	11,845.83	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
-------	-----	-----	-------------	------------------------	----------------------

23 21 23 16-0049			Two Stage, Horizontal Split Case, Cast Iron, Horizontal End Suction, Base Mounted Centrifugal Pump <small>(23 21 23 16)</small>		
Note: 3500 RPM drip-proof motor, common base plate 500' head. Packed stuffing box and boiler feed water service.					
23 21 23 16-0050	EA		40 HP, 100 GPM Cast Iron Centrifugal Pump, Two Stage, Horizontal Split Case	34,619.24	723.53
			<i>For 300 LB Flanges, Add</i>	8,329.34	
23 21 23 16-0051	EA		50 HP, 200 GPM Cast Iron Centrifugal Pump, Two Stage, Horizontal Split Case	37,375.41	784.18
			<i>For 300 LB Flanges, Add</i>	8,991.26	
23 21 23 16-0052	EA		75 HP, 300 GPM Cast Iron Centrifugal Pump, Two Stage, Horizontal Split Case	49,750.22	999.32
			<i>For 300 LB Flanges, Add</i>	11,979.97	
23 21 23 16-0053	EA		100 HP, 400 GPM Cast Iron Centrifugal Pump, Two Stage, Horizontal Split Case	58,276.85	1,373.15
			<i>For 300 LB Flanges, Add</i>	13,940.04	
23 21 23 16-0054	EA		200 HP, 800 GPM Cast Iron Centrifugal Pump, Two Stage, Horizontal Split Case	80,792.88	1,830.86
			<i>For 300 LB Flanges, Add</i>	19,359.32	

23 21 23 16-0055			Cast Iron Close Coupling Pumps <small>(23 21 23 16)</small>		
23 21 23 16-0056			Foot Mounted Cast Iron Close Coupled Pumps <small>(23 21 23 16-0055)</small>		
23 21 23 16-0057	EA		3 HP, 90 GPM At 50' Head, Foot Mounted, Close Coupled Cast Iron Centrifugal Pump (B&G 1531, 1-1/2 AC, BF, 182JM)	6,787.61	423.12
23 21 23 16-0058	EA		3 HP, 150 GPM At 40' Head, Foot Mounted, Close Coupled Cast Iron Centrifugal Pump (B&G 1531, 2-1/2 AB, BF, 182JM)	7,378.04	423.12
23 21 23 16-0059	EA		5 HP, 225 GPM At 50' Head, Foot Mounted, Close Coupled Cast Iron Centrifugal Pump (B&G 1531, 2-1/2 BB, BF, 184JM)	8,197.95	446.63
23 21 23 16-0060	EA		5 HP, 350 GPM At 25' Head, Foot Mounted, Close Coupled Cast Iron Centrifugal Pump (B&G 1531, 4 AC, BF, 184JM)	8,720.25	446.63
23 21 23 16-0061	EA		7.5 HP, 350 GPM At 40' Head, Foot Mounted, Close Coupled Cast Iron Centrifugal Pump (B&G 1531, 4 AC, BF, 213JM)	10,010.57	469.66
23 21 23 16-0062	EA		10 HP, 600 GPM At 40' Head, Foot Mounted, Close Coupled Cast Iron Centrifugal Pump (B&G 1531, 5 A, BF, 215JM)	11,866.69	565.46
23 21 23 16-0063	EA		15 HP, 1,000 GPM At 40' Head, Foot Mounted, Close Coupled Cast Iron Centrifugal Pump (B&G 1531, 6 BC, BF, 254JP)	15,566.01	696.59
23 21 23 16-0064	EA		20 HP, 1,350 GPM At 30' Head, Foot Mounted, Close Coupled Cast Iron Centrifugal Pump (B&G 1531, 6 BC, BF, 256JP)	16,665.77	753.94
23 21 23 16-0065	EA		25 HP, 1,550 GPM At 40' Head, Foot Mounted, Close Coupled Cast Iron Centrifugal Pump (B&G 1531, 6 BC, BF, 284JP)	19,286.25	814.25

23 21 23 16-0066			Pumps, Polypropylene Body, Housing And Impeller, 115/230 Volt <small>(23 21 23 16)</small>		
23 21 23 16-0067	EA		1/3 HP, Centrifugal Pump, Polypropylene Body	1,721.82	218.59
23 21 23 16-0068	EA		1/2 HP, Centrifugal Pump, Polypropylene Body	1,836.52	231.76
23 21 23 16-0069	EA		3/4 HP, Centrifugal Pump, Polypropylene Body	2,136.31	246.77

23 21 23 23 Vertical-Turbine Hydronic Pumps (23 21 23)
See CSI section 26 29 23 00-0000 for variable frequency motor controllers.

23 21 23 23-0001			Cast Iron, Bronze Fitted Vertical Turbine Wet Sump Pumps <small>(23 21 23 23)</small>		
Note: For water supply, cooling towers and process liquids. Multi-stage 1750 RPM drip-proof motor. For 1' to 5' sump depth.					
23 21 23 23-0002	EA		2 HP, 50 GPM Cast Iron Turbine Pump, 3" Discharge 100' Head, 10 Stage	11,867.71	1,045.10
			<i>For Each Extra Column Assembly <60", Add</i>	1,012.10	
			<i>For Basket Strainer, Galvanized. Steel Pipe Sizes 3" To 8", Add</i>	412.02	
			<i>For Basket Strainer, Galvanized Steel Pipe Sizes 10" And Larger, Add</i>	293.35	
23 21 23 23-0003	EA		3 HP, 100 GPM Cast Iron Turbine Pump, 4" Discharge 100' Head, 7 Stage	13,546.10	1,174.86
			<i>For Each Extra Column Assembly <60", Add</i>	1,146.88	
			<i>For Basket Strainer, Galvanized. Steel Pipe Sizes 3" To 8", Add</i>	478.65	
			<i>For Basket Strainer, Galvanized Steel Pipe Sizes 10" And Larger, Add</i>	343.19	
23 21 23 23-0004	EA		15 HP, 250 GPM Cast Iron Turbine Pump, 6" Discharge 150' Head, 5 Stage	15,986.17	1,013.59
			<i>For Each Extra Column Assembly <60", Add</i>	1,351.58	
			<i>For Basket Strainer, Galvanized. Steel Pipe Sizes 3" To 8", Add</i>	566.76	
			<i>For Basket Strainer, Galvanized Steel Pipe Sizes 10" And Larger, Add</i>	406.89	
23 21 23 23-0005	EA		25 HP, 500 GPM Cast Iron Turbine Pump, 6" Discharge 150' Head, 3 Stage	18,729.23	1,169.63
			<i>For Each Extra Column Assembly <60", Add</i>	1,573.49	
			<i>For Basket Strainer, Galvanized. Steel Pipe Sizes 3" To 8", Add</i>	674.02	
			<i>For Basket Strainer, Galvanized Steel Pipe Sizes 10" And Larger, Add</i>	486.73	
23 21 23 23-0006	EA		50 HP, 1,000 GPM Cast Iron Turbine Pump, 8" Discharge 150' Head, 2 Stage	22,941.27	1,265.98
			<i>For Each Extra Column Assembly <60", Add</i>	1,916.71	
			<i>For Basket Strainer, Galvanized. Steel Pipe Sizes 3" To 8", Add</i>	836.24	
			<i>For Basket Strainer, Galvanized Steel Pipe Sizes 10" And Larger, Add</i>	606.82	
23 21 23 23-0007	EA		100 HP, 2,000 GPM Cast Iron Turbine Pump, 10" Discharge 150' Head, 3 Stage	30,059.45	1,519.71
			<i>For Each Extra Column Assembly <60", Add</i>	2,502.45	
			<i>For Basket Strainer, Galvanized. Steel Pipe Sizes 3" To 8", Add</i>	1,104.68	
			<i>For Basket Strainer, Galvanized Steel Pipe Sizes 10" And Larger, Add</i>	804.09	
23 21 23 23-0008	EA		150 HP, 3,000 GPM Cast Iron Turbine Pump, 10" Discharge 150' Head, 2 Stage	36,038.09	1,899.63
			<i>For Each Extra Column Assembly <60", Add</i>	3,005.17	
			<i>For Basket Strainer, Galvanized. Steel Pipe Sizes 3" To 8", Add</i>	1,319.40	
			<i>For Basket Strainer, Galvanized Steel Pipe Sizes 10" And Larger, Add</i>	959.02	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	23	23-0009	EA 200 HP, 4,000 GPM Cast Iron Turbine Pump, 12" Discharge 150' Head, 2 Stage	57,069.57	2,171.01
			<i>For Each Extra Column Assembly <60", Add</i>	4,705.13	
			<i>For Basket Strainer, Galvanized, Steel Pipe Sizes 3" To 8", Add</i>	2,143.22	
			<i>For Basket Strainer, Galvanized Steel Pipe Sizes 10" And Larger, Add</i>	1,572.52	
23 21	23	23-0010	EA 250 HP, 6,000 GPM Cast Iron Turbine Pump, 14" Discharge 150' Head, 2 Stage	74,598.50	2,533.30
			<i>For Each Extra Column Assembly <60", Add</i>	6,130.71	
			<i>For Basket Strainer, Galvanized, Steel Pipe Sizes 3" To 8", Add</i>	2,821.11	
			<i>For Basket Strainer, Galvanized Steel Pipe Sizes 10" And Larger, Add</i>	2,075.13	
23 21	23	23-0011	EA 300 HP, 10,000 GPM Cast Iron Turbine Pump, 18" Discharge 100' Head, 2 Stage	104,056.27	3,039.42
			<i>For Each Extra Column Assembly <60", Add</i>	8,519.89	
			<i>For Basket Strainer, Galvanized, Steel Pipe Sizes 3" To 8", Add</i>	3,966.86	
			<i>For Basket Strainer, Galvanized Steel Pipe Sizes 10" And Larger, Add</i>	2,926.30	

23 21 29 Automatic Condensate Pump Units (23 21)**23 21 29 00-0001 Automatic Shallow Pan Condensate Pump (23 21 29)**

23 21	29	00-0002	EA 1/150 HP, 205 GPH (Max) Automatic Shallow Pan Condensate Pump (Little Giant 1-ABS).....	244.32	45.83
23 21	29	00-0003	EA 1/40 HP, 300 GPH (Max) Automatic Shallow Pan Condensate Pump (Little Giant 2-ABS).....	263.41	45.83
23 21	29	00-0004	EA 1/12 HP, 310 GPH (Max) Automatic Shallow Pan Condensate Pump (Little Giant 3-ABS).....	403.16	52.89

23 21 29 00-0005 Automatic Condensate Pump With Tank (23 21 29)

23 21	29	00-0006	EA 1/20 HP Automatic Condensate Pump With Tank (Hartell KT-15-1UL)	138.12	35.26
23 21	29	00-0007	EA 1/30 HP Automatic Condensate Pump With Tank (Little Giant VCMX-20)	146.27	35.26
23 21	29	00-0008	EA 1/50 HP, 200 GPH (Max) Automatic Condensate Removal Pump With Safety Switch (Little Giant VCL-14ULS)	238.07	45.83
23 21	29	00-0009	EA 1/18 HP, 270 GPH (Max) Automatic Condensate Removal Pump With Safety Switch (Little Giant VCL-24ULS)	258.42	52.89
23 21	29	00-0010	EA 1/5 HP, 450 GPH (Max) Automatic Condensate Removal Pump With Safety Switch (Little Giant VCL-45ULS)	461.69	59.94
			Condensate Pump		

23 22 Steam and Condensate Piping and Pumps (23 20)**23 22 16 Steam and Condensate Heating Piping Specialties (23 22)****23 22 16 00-0001 Steam Temperature Regulator, Iron Body (23 22 16)****23 22 16 00-0002 Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body (23 22 16 00-0001)**

Note: Up to 150 PSI.

23 22	16	00-0003	EA 1/2" Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	1,358.32	22.05
23 22	16	00-0004	EA 3/4" Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	1,432.54	29.70
23 22	16	00-0005	EA 1" Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	1,899.68	36.60
23 22	16	00-0006	EA 1-1/4" Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	2,100.52	46.25
23 22	16	00-0007	EA 1-1/2" Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	2,158.40	53.14
23 22	16	00-0008	EA 2" Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	2,547.88	57.80
23 22	16	00-0009	EA 2-1/2" Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	3,260.46	105.88
23 22	16	00-0010	EA 3" Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	3,010.13	115.46
23 22	16	00-0011	EA 4" Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	4,515.30	270.26
23 22	16	00-0012	EA 6" Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	7,373.70	317.21

23 22 16 00-0013 Single Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body (23 22 16 00-0001)

23 22	16	00-0014	EA 1/2" Single Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	2,008.15	22.05
23 22	16	00-0015	EA 3/4" Single Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	2,083.37	29.70
23 22	16	00-0016	EA 1" Single Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	2,179.15	36.60
23 22	16	00-0017	EA 1-1/4" Single Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	2,609.69	46.25
23 22	16	00-0018	EA 1-1/2" Single Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	2,797.75	53.14
23 22	16	00-0019	EA 2" Single Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	3,175.71	57.80
23 22	16	00-0020	EA 2-1/2" Single Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	4,876.05	105.88
23 22	16	00-0021	EA 3" Single Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	4,121.14	115.46
23 22	16	00-0022	EA 4" Single Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	5,817.75	270.26
23 22	16	00-0023	EA 6" Single Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	9,274.10	317.21

23 22 16 00-0024 Double Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body (23 22 16 00-0001)

23 22	16	00-0025	EA 1/2" Double Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	2,732.69	22.05
23 22	16	00-0026	EA 3/4" Double Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	2,776.29	29.70
23 22	16	00-0027	EA 1" Double Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	3,040.54	36.60
23 22	16	00-0028	EA 1-1/4" Double Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	3,314.13	46.25
23 22	16	00-0029	EA 1-1/2" Double Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	3,437.10	53.14
23 22	16	00-0030	EA 2" Double Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	3,876.34	57.80
23 22	16	00-0031	EA 2-1/2" Double Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	7,173.09	105.88
23 22	16	00-0032	EA 3" Double Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	5,786.19	115.46
23 22	16	00-0033	EA 4" Double Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	7,448.02	270.26
23 22	16	00-0034	EA 6" Double Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	10,382.20	317.21



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 22 16 00-0035				Double Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body (23 22 16 00-0001)		
23 22 16 00-0036	EA			1/2" Double Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	3,498.38	22.05
23 22 16 00-0037	EA			3/4" Double Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	3,538.16	29.70
23 22 16 00-0038	EA			1" Double Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	3,844.50	36.60
23 22 16 00-0039	EA			1-1/4" Double Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	4,010.87	46.25
23 22 16 00-0040	EA			1-1/2" Double Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	4,168.31	53.14
23 22 16 00-0041	EA			2" Double Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	4,538.65	57.80
23 22 16 00-0042	EA			2-1/2" Double Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	7,555.93	105.88
23 22 16 00-0043	EA			3" Double Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	6,076.28	115.46
23 22 16 00-0044	EA			4" Double Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	7,738.10	270.26
23 22 16 00-0045	EA			6" Double Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	10,672.28	317.21
23 22 16 00-0046				High Temperature Safety Relief Valve (23 22 16)		
				Note: Used in steam or water boiler, heating systems and unfired pressure vessel applications.		
23 22 16 00-0047				Cast Iron Body Safety Valve, Steam Or Water (23 22 16 00-0046)		
				Note: Variable set points to 500 psig pressure, 400 Degree F temperature range.		
23 22 16 00-0048				Threaded (23 22 16 00-0047)		
23 22 16 00-0049	EA			3/4" x 1" Threaded Cast Iron Body Safety Relief Valve, Steam or Water	523.17	22.97
23 22 16 00-0050	EA			1" x 1-1/4" Threaded Cast Iron Body Safety Relief Valve, Steam or Water	550.54	27.18
23 22 16 00-0051	EA			1-1/4" x 1-1/2" Threaded Cast Iron Body Safety Relief Valve, Steam or Water	611.58	34.46
23 22 16 00-0052	EA			1-1/2" x 2" Threaded Cast Iron Body Safety Relief Valve, Steam or Water	750.30	38.28
23 22 16 00-0053	EA			2" x 2-1/2" Threaded Cast Iron Body Safety Relief Valve, Steam or Water	958.75	47.08
23 22 16 00-0054	EA			2-1/2" x 2-1/2" Threaded Cast Iron Body Safety Relief Valve, Steam or Water	1,468.96	53.60
23 22 16 00-0055	EA			3" x 3" Threaded Cast Iron Body Safety Relief Valve, Steam or Water	1,594.94	61.64
23 22 16 00-0056				Flanged (23 22 16 00-0047)		
23 22 16 00-0057	EA			1-1/2" x 2-1/2" Flanged Cast Iron Body Safety Relief Valve, Steam or Water	3,578.28	160.79
23 22 16 00-0058	EA			2" x 3" Flanged Cast Iron Body Safety Relief Valve, Steam or Water	4,181.79	241.69
23 22 16 00-0059	EA			2-1/2" x 3" Flanged Cast Iron Body Safety Relief Valve, Steam or Water	4,606.90	222.51
23 22 16 00-0060	EA			2-1/2" x 4" Flanged Cast Iron Body Safety Relief Valve, Steam or Water	5,610.59	321.38
23 22 16 00-0061	EA			3" x 3" Flanged Cast Iron Body Safety Relief Valve, Steam or Water	5,957.87	239.67
23 22 16 00-0062	EA			3" x 4" Flanged Cast Iron Body Safety Relief Valve, Steam or Water	7,011.61	321.38
23 22 16 00-0063	EA			4" x 6" Flanged Cast Iron Body Safety Relief Valve, Steam or Water	11,709.72	456.08
23 22 16 00-0064	EA			6" x 8" Flanged Cast Iron Body Safety Relief Valve, Steam or Water	23,175.03	509.35
23 22 16 00-0065				Bronze Body Safety Valve, Threaded, Steam (23 22 16 00-0046)		
				Note: Variable set points to 250 psig pressure, 400 Degree F temperature range. Valve also can be set for Air or Gas with variable set points to 300 psig pressure.		
23 22 16 00-0066	EA			3/4" x 3/4" Threaded Bronze Body Safety Relief Valve, Steam	565.58	21.06
23 22 16 00-0067	EA			3/4" x 1" Threaded Bronze Body Safety Relief Valve, Steam	580.64	22.97
23 22 16 00-0068	EA			1" x 1" Threaded Bronze Body Safety Relief Valve, Steam	678.11	25.27
23 22 16 00-0069	EA			1" x 1-1/4" Threaded Bronze Body Safety Relief Valve, Steam	748.16	27.18
23 22 16 00-0070	EA			1-1/4" x 1-1/4" Threaded Bronze Body Safety Relief Valve, Steam	864.87	30.63
23 22 16 00-0071	EA			1-1/4" x 1-1/2" Threaded Bronze Body Safety Relief Valve, Steam	872.60	34.46
23 22 16 00-0072	EA			1-1/2" x 1-1/2" Threaded Bronze Body Safety Relief Valve, Steam	979.26	36.37
23 22 16 00-0073	EA			1-1/2" x 2" Threaded Bronze Body Safety Relief Valve, Steam	1,065.93	38.28
23 22 16 00-0074	EA			2" x 2" Threaded Bronze Body Safety Relief Valve, Steam	1,470.57	42.87
23 22 16 00-0075	EA			2" x 2-1/2" Threaded Bronze Body Safety Relief Valve, Steam	1,607.38	47.08
23 22 16 00-0076	EA			2-1/2" x 2-1/2" Threaded Bronze Body Safety Relief Valve, Steam	1,915.52	53.60
23 22 16 00-0077				Bronze Body Safety Valve, Threaded, Water (23 22 16 00-0046)		
				Note: Variable set points to 160 psig pressure, 250 Degree F temperature range.		
23 22 16 00-0078	EA			3/4" x 3/4" Threaded Bronze Body Safety Relief Valve, Water	276.34	21.06
23 22 16 00-0079	EA			3/4" x 1" Threaded Bronze Body Safety Relief Valve, Water	313.97	22.97
23 22 16 00-0080	EA			1" x 1" Threaded Bronze Body Safety Relief Valve, Water	428.96	25.27
23 22 16 00-0081	EA			1" x 1-1/4" Threaded Bronze Body Safety Relief Valve, Water	471.73	27.18
23 22 16 00-0082	EA			1-1/4" x 1-1/4" Threaded Bronze Body Safety Relief Valve, Water	674.45	30.63
23 22 16 00-0083	EA			1-1/2" x 1-1/2" Threaded Bronze Body Safety Relief Valve, Water	905.33	36.37
23 22 16 00-0084	EA			2" x 2" Threaded Bronze Body Safety Relief Valve, Water	1,311.33	42.87
23 22 16 00-0085				Steam Traps (23 22 16)		
23 22 16 00-0086				Inverted Bucket Steam Traps (23 22 16 00-0085)		
23 22 16 00-0087	EA			1/2" 250 PSI Inverted Bucket Cast Iron Steam Trap	348.15	45.95
				<i>For Work In Restricted Working Space, Add</i>	27.57	
23 22 16 00-0088	EA			3/4" 250 PSI Inverted Bucket Cast Iron Steam Trap	351.98	47.87
				<i>For Work In Restricted Working Space, Add</i>	28.72	
23 22 16 00-0089	EA			1" 250 PSI Inverted Bucket Cast Iron Steam Trap	514.62	51.01
				<i>For Work In Restricted Working Space, Add</i>	30.64	
23 22 16 00-0090	EA			1-1/4" 250 PSI Inverted Bucket Cast Iron Steam Trap	826.74	69.62
				<i>For Work In Restricted Working Space, Add</i>	41.78	
23 22 16 00-0091	EA			1-1/2" 250 PSI Inverted Bucket Cast Iron Steam Trap	1,222.69	85.78
				<i>For Work In Restricted Working Space, Add</i>	51.05	

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 22 Steam and Condensate Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 22 16 00-0092 EA 2" 250 PSI Inverted Bucket Cast Iron Steam Trap..... <i>For Work In Restricted Working Space, Add</i>	1,568.57 76.59	127.65
23 22 16 00-0093 Float And Thermostatic Steam Traps (23 22 16 00-0085)		
23 22 16 00-0094 EA 3/4" 15 PSI Maximum Pressure Float And Thermostatic Steam Trap <i>For Work In Restricted Working Space, Add</i>	367.70 28.72	47.87
23 22 16 00-0095 EA 1" 15 PSI Maximum Pressure Float And Thermostatic Steam Trap <i>For Work In Restricted Working Space, Add</i>	479.19 30.64	51.05
23 22 16 00-0096 EA 1-1/4" 15 PSI Maximum Pressure Float And Thermostatic Steam Trap <i>For Work In Restricted Working Space, Add</i>	595.49 41.78	69.62
23 22 16 00-0097 EA 1-1/2" 15 PSI Maximum Pressure Float And Thermostatic Steam Trap <i>For Work In Restricted Working Space, Add</i>	864.55 51.06	85.09
23 22 16 00-0098 EA 2" 15 PSI Maximum Pressure Float And Thermostatic Steam Trap <i>For Work In Restricted Working Space, Add</i>	1,453.19 76.59	127.60
23 22 16 00-0099 EA 3/4" 30 PSI Maximum Pressure Float And Thermostatic Steam Trap <i>For Work In Restricted Working Space, Add</i>	462.39 28.72	47.87
23 22 16 00-0100 EA 1" 30 PSI Maximum Pressure Float And Thermostatic Steam Trap <i>For Work In Restricted Working Space, Add</i>	502.11 30.64	51.01
23 22 16 00-0101 EA 1-1/4" 30 PSI Maximum Pressure Float And Thermostatic Steam Trap <i>For Work In Restricted Working Space, Add</i>	657.98 41.78	69.62
23 22 16 00-0102 EA 1-1/2" 30 PSI Maximum Pressure Float And Thermostatic Steam Trap <i>For Work In Restricted Working Space, Add</i>	1,015.79 51.06	85.02
23 22 16 00-0103 EA 2" 30 PSI Maximum Pressure Float And Thermostatic Steam Trap <i>For Work In Restricted Working Space, Add</i>	1,592.78 76.59	127.64
23 22 16 00-0104 EA 3/4" 75 PSI Maximum Pressure Float And Thermostatic Steam Trap <i>For Work In Restricted Working Space, Add</i>	593.64 28.72	47.87
23 22 16 00-0105 EA 1" 75 PSI Maximum Pressure Float And Thermostatic Steam Trap <i>For Work In Restricted Working Space, Add</i>	660.44 30.64	51.05
23 22 16 00-0106 EA 1-1/4" 75 PSI Maximum Pressure Float And Thermostatic Steam Trap <i>For Work In Restricted Working Space, Add</i>	1,001.74 41.78	69.62
23 22 16 00-0107 EA 1-1/2" 75 PSI Maximum Pressure Float And Thermostatic Steam Trap <i>For Work In Restricted Working Space, Add</i>	1,205.18 51.06	85.02
23 22 16 00-0108 EA 2" 75 PSI Maximum Pressure Float And Thermostatic Steam Trap <i>For Work In Restricted Working Space, Add</i>	1,986.51 76.59	127.65
23 22 16 00-0109 EA 3/4" 150 PSI Maximum Pressure Float And Thermostatic Steam Trap <i>For Work In Restricted Working Space, Add</i>	601.97 28.72	47.87
23 22 16 00-0110 EA 1" 150 PSI Maximum Pressure Float And Thermostatic Steam Trap <i>For Work In Restricted Working Space, Add</i>	660.44 30.64	51.05
23 22 16 00-0111 EA 1-1/4" 150 PSI Max Pressure Float And Thermostatic Steam Trap <i>For Work In Restricted Working Space, Add</i>	1,001.74 41.78	69.62
23 22 16 00-0112 EA 1-1/2" 150 PSI Max Pressure Float And Thermostatic Steam Trap <i>For Work In Restricted Working Space, Add</i>	1,205.18 51.06	85.02
23 22 16 00-0113 EA 2" 150 PSI Maximum Pressure Float And Thermostatic Steam Trap <i>For Work In Restricted Working Space, Add</i>	1,986.51 76.59	127.64
23 22 16 00-0114 Thermostatic Steam Traps (23 22 16 00-0085)		
23 22 16 00-0115 EA 1/2" 25 PSI Maximum Pressure Thermostatic Steam Trap..... <i>For Work In Restricted Working Space, Add</i>	188.55 27.57	45.95
23 22 16 00-0116 EA 3/4" 25 PSI Maximum Pressure Thermostatic Steam Trap..... <i>For Work In Restricted Working Space, Add</i>	301.96 28.72	47.87
23 22 16 00-0117 EA 1" 25 PSI Maximum Pressure Thermostatic Steam Trap..... <i>For Work In Restricted Working Space, Add</i>	369.25 30.64	51.01
23 22 16 00-0118 Thermodynamic Steam Traps (23 22 16 00-0085)		
23 22 16 00-0119 EA 3/8" 600 PSI Maximum Pressure Thermodynamic Steam Trap.....	390.14	41.36
23 22 16 00-0120 EA 1/2" 600 PSI Maximum Pressure Thermodynamic Steam Trap.....	546.07	45.95
23 22 16 00-0121 EA 3/4" 600 PSI Maximum Pressure Thermodynamic Steam Trap.....	672.79	47.87
23 22 16 00-0122 EA 1" 600 PSI Maximum Pressure Thermodynamic Steam Trap.....	895.85	51.01
23 22 16 00-0123 Steam Moisture Separator (23 22 16 00-0085)		
23 22 16 00-0124 EA 1/2" Steam Moisture Separator, Threaded (Spirax Sarco S1)	803.27	76.59
23 22 16 00-0125 EA 3/4" Steam Moisture Separator, Threaded (Spirax Sarco S1)	861.64	103.40
23 22 16 00-0126 EA 1" Steam Moisture Separator, Threaded (Spirax Sarco S1)	1,033.86	116.42
23 22 16 00-0127 EA 1-1/2" Steam Moisture Separator, Threaded (Spirax Sarco S2)	1,612.23	133.26
23 22 16 00-0128 EA 2" Steam Moisture Separator, Flanged (Spirax Sarco S3).....	1,993.25	204.19
23 22 16 00-0129 EA 2-1/2" Steam Moisture Separator, Flanged (Spirax Sarco S3).....	2,973.39	222.11
23 22 16 00-0130 EA 3" Steam Moisture Separator, Flanged (Spirax Sarco S3).....	3,420.08	260.40
23 22 16 00-0131 EA 4" Steam Moisture Separator, Flanged (Spirax Sarco S3).....	4,702.78	436.55
23 22 16 00-0132 EA 6" Steam Moisture Separator, Flanged (Spirax Sarco S3).....	9,070.83	551.44
23 22 16 00-0133 Steam/Condensate Meter (23 22 16)		
Note: Meter shall be of the rotary volumetric type and sized on the maximum estimated steam demand.		
23 22 16 00-0134 EA 1" Steam/Condensate Meter.....	6,793.89	126.88
<i>For Steam Meter Pressure-Compensated Counter, Add</i>	1,220.00	
<i>For Contactor Used For Dial Counter, Add</i>	567.00	
<i>For Wall Or Panel Mounted Remote Totalizer With Contactor, Add</i>	905.00	
<i>For Direct Reading Pressure Gauge, Add</i>	79.82	
<i>For Direct Reading Thermometer, Stainless Steel Case With Trim, Add</i>	64.52	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 22 16 00-0135 EA 2" Steam/Condensate Meter.....	7,666.22	149.09
For Steam Meter Pressure-Compensated Counter, Add	1,220.00	
For Contactor Used For Dial Counter, Add	567.00	
For Wall Or Panel Mounted Remote Totalizer With Contactor, Add	905.00	
For Direct Reading Pressure Gauge, Add	79.82	
For Direct Reading Thermometer, Stainless Steel Case With Trim, Add	64.52	
23 22 16 00-0136 EA 2-1/2" Steam/Condensate Meter	8,135.52	185.04
For Steam Meter Pressure-Compensated Counter, Add	1,220.00	
For Contactor Used For Dial Counter, Add	567.00	
For Wall Or Panel Mounted Remote Totalizer With Contactor, Add	905.00	
For Direct Reading Pressure Gauge, Add	79.82	
For Direct Reading Thermometer, Stainless Steel Case With Trim, Add	64.52	
23 22 16 00-0137 EA 3" Steam/Condensate Meter.....	8,634.42	243.19
For Steam Meter Pressure-Compensated Counter, Add	1,220.00	
For Contactor Used For Dial Counter, Add	567.00	
For Wall Or Panel Mounted Remote Totalizer With Contactor, Add	905.00	
For Direct Reading Pressure Gauge, Add	79.82	
For Direct Reading Thermometer, Stainless Steel Case With Trim, Add	64.52	
23 22 16 00-0138 EA 4" Steam/Condensate Meter.....	9,749.81	377.82
For Steam Meter Pressure-Compensated Counter, Add	1,220.00	
For Contactor Used For Dial Counter, Add	567.00	
For Wall Or Panel Mounted Remote Totalizer With Contactor, Add	905.00	
For Direct Reading Pressure Gauge, Add	79.82	
For Direct Reading Thermometer, Stainless Steel Case With Trim, Add	64.52	
23 22 16 00-0139 EA 6" Steam/Condensate Meter.....	16,672.31	477.92
For Steam Meter Pressure-Compensated Counter, Add	1,220.00	
For Contactor Used For Dial Counter, Add	567.00	
For Wall Or Panel Mounted Remote Totalizer With Contactor, Add	905.00	
For Direct Reading Pressure Gauge, Add	79.82	
For Direct Reading Thermometer, Stainless Steel Case With Trim, Add	64.52	
23 22 16 00-0140 EA 8" Steam/Condensate Meter.....	17,284.85	603.40
For Steam Meter Pressure-Compensated Counter, Add	1,220.00	
For Contactor Used For Dial Counter, Add	567.00	
For Wall Or Panel Mounted Remote Totalizer With Contactor, Add	905.00	
For Direct Reading Pressure Gauge, Add	79.82	
For Direct Reading Thermometer, Stainless Steel Case With Trim, Add	64.52	
23 22 16 00-0141 EA 10" Steam/Condensate Meter.....	18,098.75	740.15
For Steam Meter Pressure-Compensated Counter, Add	1,220.00	
For Contactor Used For Dial Counter, Add	567.00	
For Wall Or Panel Mounted Remote Totalizer With Contactor, Add	905.00	
For Direct Reading Pressure Gauge, Add	79.82	
For Direct Reading Thermometer, Stainless Steel Case With Trim, Add	64.52	
23 22 16 00-0142 EA 12" Steam/Condensate Meter.....	18,989.08	898.75
For Steam Meter Pressure-Compensated Counter, Add	1,220.00	
For Contactor Used For Dial Counter, Add	567.00	
For Wall Or Panel Mounted Remote Totalizer With Contactor, Add	905.00	
For Direct Reading Pressure Gauge, Add	79.82	
For Direct Reading Thermometer, Stainless Steel Case With Trim, Add	64.52	
23 22 16 00-0143 EA 14" Steam/Condensate Meter.....	20,230.55	1,057.35
For Steam Meter Pressure-Compensated Counter, Add	1,220.00	
For Contactor Used For Dial Counter, Add	567.00	
For Wall Or Panel Mounted Remote Totalizer With Contactor, Add	905.00	
For Direct Reading Pressure Gauge, Add	79.82	
For Direct Reading Thermometer, Stainless Steel Case With Trim, Add	64.52	
23 22 16 00-0144 EA 16" Steam/Condensate Meter.....	20,956.75	1,163.09
For Steam Meter Pressure-Compensated Counter, Add	1,220.00	
For Contactor Used For Dial Counter, Add	567.00	
For Wall Or Panel Mounted Remote Totalizer With Contactor, Add	905.00	
For Direct Reading Pressure Gauge, Add	79.82	
For Direct Reading Thermometer, Stainless Steel Case With Trim, Add	64.52	

23 22 23 Steam Condensate Pumps (23 22)

23 22 23 13 Electric-Driven Steam Condensate Pumps (23 22 23)

23 22 23 13-0001 Simplex Condensate Pumps And Motors (23 22 23 13)

Note: Cast iron receiver, float switch.

23 22 23 13-0002 20 PSI Discharge Pressure (23 22 23 13-0001)

23 22 23 13-0003 EA 3 To 6 GPM Simplex Condensate Pump And 1/3 HP Motor With 6 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure	2,188.46	717.89
23 22 23 13-0004 EA 9 To 12 GPM Simplex Condensate Pump And 1/3 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure	2,712.26	737.63
23 22 23 13-0005 EA 15 GPM Simplex Condensate Pump And 1/2 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure.....	2,844.89	787.00
23 22 23 13-0006 EA 22.5 GPM Simplex Condensate Pump And 1/2 HP Motor With 21 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure	3,094.64	795.46
23 22 23 13-0007 EA 30 GPM Simplex Condensate Pump And 3/4 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure.....	3,445.28	865.98
23 22 23 13-0008 EA 37.5 GPM Simplex Condensate Pump And 3/4 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure	4,846.55	865.98
23 22 23 13-0009 EA 45 GPM Simplex Condensate Pump And 1 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure.....	4,951.58	925.22
23 22 23 13-0010 EA 60 GPM Simplex Condensate Pump And 1-1/2 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure.....	5,953.31	967.53

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 22 Steam and Condensate Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 22 23 13-0011 EA 75 GPM Simplex Condensate Pump And 2 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure	6,031.24	1,009.84
23 22 23 13-0012 30 PSI Discharge Pressure (23 22 23 13-0001)		
23 22 23 13-0013 EA 3 To 6 GPM Simplex Condensate Pump And 1/2 HP Motor With 6 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure	2,481.36	767.25
23 22 23 13-0014 EA 9 To 12 GPM Simplex Condensate Pump And 1/2 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure	3,118.69	787.00
23 22 23 13-0015 EA 15 GPM Simplex Condensate Pump And 3/4 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure	3,249.68	839.18
23 22 23 13-0016 EA 22.5 GPM Simplex Condensate Pump And 1 HP Motor With 21 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure	3,724.67	906.88
23 22 23 13-0017 EA 30 To 37.5 GPM Simplex Condensate Pump And 1 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure	4,951.58	926.63
23 22 23 13-0018 EA 45 GPM Simplex Condensate Pump And 1-1/2 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure	5,092.21	959.06
23 22 23 13-0019 EA 60 GPM Simplex Condensate Pump And 2 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure	5,258.82	1,009.84
23 22 23 13-0020 EA 75 GPM Simplex Condensate Pump And 3 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure	6,048.72	1,074.72
23 22 23 13-0021 40 PSI Discharge Pressure (23 22 23 13-0001)		
23 22 23 13-0022 EA 3 To 6 GPM Simplex Condensate Pump And 1 HP Motor With 6 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure	2,778.61	880.08
23 22 23 13-0023 EA 9 To 15 GPM Simplex Condensate Pump And 1 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure	3,399.22	950.60
23 22 23 13-0024 EA 22.5 GPM Simplex Condensate Pump And 1-1/2 HP Motor With 21 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure	3,920.95	939.32
23 22 23 13-0025 EA 30 To 37.5 GPM Simplex Condensate Pump And 1-1/2 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure	5,069.95	959.06
23 22 23 13-0026 EA 45 GPM Simplex Condensate Pump And 2 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure	5,189.07	999.97
23 22 23 13-0027 EA 60 GPM Simplex Condensate Pump And 2 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure	6,031.24	1,009.84
23 22 23 13-0028 EA 75 GPM Simplex Condensate Pump And 3 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure	6,143.33	1,074.72
23 22 23 13-0029 50 PSI Discharge Pressure (23 22 23 13-0001)		
23 22 23 13-0030 EA 3 To 6 GPM Simplex Condensate Pump And 2 HP Motor With 6 Gallon Cast Iron Receiver, Float Switch, 50 PSI Discharge Pressure	4,856.99	953.43
23 22 23 13-0031 EA 9 To 15 GPM Simplex Condensate Pump And 2 HP Motor With 13.6 Gallon Cast Iron Receiver, Float Switch, 50 PSI Discharge Pressure	3,670.11	973.17
23 22 23 13-0032 EA 22.5 GPM Simplex Condensate Pump And 2 HP Motor With 21 Gallon Cast Iron Receiver, Float Switch, 50 PSI Discharge Pressure	4,143.58	980.22
23 22 23 13-0033 EA 30 To 45 GPM Simplex Condensate Pump And 3 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 50 PSI Discharge Pressure	5,300.04	1,066.25
23 22 23 13-0034 EA 60 To 75 GPM Simplex Condensate Pump And 5 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 50 PSI Discharge Pressure	8,074.80	1,149.47
23 22 23 13-0035 Duplex Condensate Pumps And Motors (23 22 23 13)		
Note: Cast iron receiver, float switch, alternator assembly.		
23 22 23 13-0036 20 PSI Discharge Pressure (23 22 23 13-0035)		
23 22 23 13-0037 EA 9 To 12 GPM Duplex Condensate Pump And 1/3 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure	3,490.97	963.30
23 22 23 13-0038 EA 15 GPM Duplex Condensate Pump And 1/2 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure	3,719.13	1,057.79
23 22 23 13-0039 EA 22.5 GPM Duplex Condensate Pump And 1/2 HP Motor With 21 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure	4,015.64	1,066.25
23 22 23 13-0040 EA 30 GPM Duplex Condensate Pump And 3/4 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure	4,471.43	1,162.16
23 22 23 13-0041 EA 37.5 GPM Duplex Condensate Pump And 3/4 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure	5,984.00	1,162.16
23 22 23 13-0042 EA 45 GPM Duplex Condensate Pump And 1 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure	6,135.27	1,252.43
23 22 23 13-0043 EA 60 GPM Duplex Condensate Pump And 1-1/2 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure	7,172.63	1,307.44
23 22 23 13-0044 EA 75 GPM Duplex Condensate Pump And 2 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure	7,368.18	1,372.31
23 22 23 13-0045 30 PSI Discharge Pressure (23 22 23 13-0035)		
23 22 23 13-0046 EA 9 To 12 GPM Duplex Condensate Pump And 1/2 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure	4,409.63	1,038.05
23 22 23 13-0047 EA 15 GPM Duplex Condensate Pump And 3/4 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure	4,643.12	1,133.95
23 22 23 13-0048 EA 22.5 GPM Duplex Condensate Pump And 1 HP Motor With 21 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure	5,126.52	1,105.75



Heating, Ventilating, and Air-Conditioning (HVAC)	23
HVAC Piping and Pumps	23 20
Steam and Condensate Piping and Pumps	23 22



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 22 23	13-0049	EA	30 To 37.5 GPM Duplex Condensate Pump And 1 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure	6,135.27	1,252.43
23 22 23	13-0050	EA	45 GPM Duplex Condensate Pump And 1-1/2 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure	6,315.99	1,298.97
23 22 23	13-0051	EA	60 GPM Duplex Condensate Pump And 2 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure	7,145.58	1,372.31
23 22 23	13-0052	EA	75 GPM Duplex Condensate Pump And 3 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure	7,516.27	1,471.04
23 22 23 13-0053 40 PSI Discharge Pressure <small>(23 22 23 13-0035)</small>					
23 22 23	13-0054	EA	9 To 15 GPM Duplex Condensate Pump And 1 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure	4,838.91	1,224.22
23 22 23	13-0055	EA	22.5 GPM Duplex Condensate Pump And 1-1/2 HP Motor With 21 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure	5,305.00	1,279.23
23 22 23	13-0056	EA	30 To 37.5 GPM Duplex Condensate Pump And 1-1/2 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure	6,329.35	1,298.97
23 22 23	13-0057	EA	45 GPM Duplex Condensate Pump And 2 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure	6,526.02	1,363.85
23 22 23	13-0058	EA	60 GPM Duplex Condensate Pump And 2 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure	7,369.30	1,372.31
23 22 23	13-0059	EA	75 GPM Duplex Condensate Pump And 3 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure	7,542.99	1,471.04
23 22 23 13-0060 50 PSI Discharge Pressure <small>(23 22 23 13-0035)</small>					
23 22 23	13-0061	EA	9 To 15 GPM Duplex Condensate Pump And 2 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 50 PSI Discharge Pressure	5,023.67	1,224.22
23 22 23	13-0062	EA	22.5 GPM Duplex Condensate Pump And 2 HP Motor With 21 Gallon Cast Iron Receiver, Float Switch, 50 PSI Discharge Pressure	5,434.90	1,345.51
23 22 23	13-0063	EA	30 To 45 GPM Duplex Condensate Pump And 3 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 50 PSI Discharge Pressure	6,700.81	1,461.16
23 22 23	13-0064	EA	60 To 75 GPM Duplex Condensate Pump And 5 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 50 PSI Discharge Pressure	11,130.26	1,582.45
23 23 Refrigerant Piping <small>(23 20)</small>					
23 23 13 Refrigerant Piping Valves <small>(23 23)</small>					
23 23 13 00-0001 Ball Valves <small>(23 23 13)</small>					
23 23 13 00-0002 Refrigeration Ball Valves, Sweat, 1400 Series <small>(23 23 13 00-0001)</small>					
23 23 13	00-0003	EA	3/8" Refrigeration Ball Valve, Sweated	58.28	15.31
23 23 13	00-0004	EA	1/2" Refrigeration Ball Valve, Sweated	60.75	15.31
23 23 13	00-0005	EA	5/8" Refrigeration Ball Valve, Sweated	77.35	15.31
23 23 13	00-0006	EA	7/8" Refrigeration Ball Valve, Sweated	103.67	16.85
23 23 13	00-0007	EA	1-1/8" Refrigeration Ball Valve, Sweated	142.10	19.14
23 23 13	00-0008	EA	1-5/8" Refrigeration Ball Valve, Sweated	228.13	23.58
23 23 13 00-0009 Shut-Off Valves <small>(23 23 13)</small>					
23 23 13 00-0010 Packless <small>(23 23 13 00-0009)</small>					
23 23 13	00-0011	EA	1/2" Refrigeration Valve, Packless	70.15	15.93
23 23 13	00-0012	EA	5/8" Refrigeration Valve, Packless	86.44	17.47
23 23 13	00-0013	EA	7/8" Refrigeration Valve, Packless	171.44	23.89
23 23 13 00-0014 Packed <small>(23 23 13 00-0009)</small>					
23 23 13	00-0015	EA	1-1/8" Refrigeration Valve, Packed	300.79	34.77
23 23 13	00-0016	EA	1 3/8" Refrigeration Valve, Packed	400.17	42.58
23 23 13	00-0017	EA	1-5/8" Refrigeration Valve, Packed	485.52	47.94
23 23 13	00-0018	EA	2-1/8" Refrigeration Valve, Packed	686.98	54.68
23 23 13	00-0019	EA	2-5/8" Refrigeration Valve, Packed	1,170.60	153.18
23 23 13	00-0020	EA	3-1/8" Refrigeration Valve, Packed	1,531.39	191.47
23 23 13	00-0021	EA	4-1/8" Refrigeration Valve, Packed	2,169.29	255.35
23 23 13 00-0022 Check Valves <small>(23 23 13)</small>					
23 23 13	00-0023	EA	5/8" Check Valve, Refrigeration	90.89	15.31
23 23 13	00-0024	EA	7/8" Check Valve, Refrigeration	264.91	16.85
23 23 13	00-0025	EA	1-1/8" Check Valve, Refrigeration	308.07	19.14
23 23 13	00-0026	EA	1 3/8" Check Valve, Refrigeration	413.30	20.37
23 23 13	00-0027	EA	1-5/8" Check Valve, Refrigeration	540.03	23.59
23 23 13	00-0028	EA	2-1/8" Check Valve, Refrigeration	792.01	27.88
23 23 13	00-0029	EA	2-5/8" Check Valve, Refrigeration	1,109.58	40.89
23 23 13	00-0030	EA	3-1/8" Check Valve, Refrigeration	1,459.60	53.61
23 23 13 00-0031 Solenoid Valves <small>(23 23 13)</small>					

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 23 Refrigerant Piping**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

23 23 13 00-0032 Solenoid Valve, 24 Volt Coil (23 23 13 00-0031)				
23 23 13 00-0033	EA	1/2" Solenoid Valve, Refrigeration	231.32	15.31
23 23 13 00-0034	EA	5/8" Solenoid Valve, Refrigeration	236.61	15.31
23 23 13 00-0035	EA	3/4" Solenoid Valve, Refrigeration	293.81	16.85
23 23 13 00-0036	EA	7/8" Solenoid Valve, Refrigeration	293.81	16.85
23 23 13 00-0037	EA	1-1/8" Solenoid Valve, Refrigeration	408.44	19.14
23 23 13 00-0038	EA	1 3/8" Solenoid Valve, Refrigeration	649.36	20.37
23 23 13 00-0039	EA	1-5/8" Solenoid Valve, Refrigeration	1,179.25	23.59
23 23 13 00-0040	EA	2-1/8" Solenoid Valve, Refrigeration	1,200.67	27.88

23 23 16 Refrigerant Piping Specialties (23 23)

23 23 16 00-0001 Soft Refrigeration Copper Tubing (23 23 16)				
Note: Based on outside diameter. Nitrogenized. Lengths up to 100'. See CSI section 22 07 19 00-0372 for flexible elastomeric insulation (insulation on suction line only).				
23 23 16 00-0002	LF	1/8" Outside Diameter Soft Refrigeration Copper Tubing	6.34	3.65
23 23 16 00-0003	LF	3/16" Outside Diameter Soft Refrigeration Copper Tubing	6.64	3.74
23 23 16 00-0004	LF	1/4" Outside Diameter Soft Refrigeration Copper Tubing	6.94	3.84
23 23 16 00-0005	LF	5/16" Outside Diameter Soft Refrigeration Copper Tubing	7.41	3.90
23 23 16 00-0006	LF	3/8" Outside Diameter Soft Refrigeration Copper Tubing	7.63	3.97
23 23 16 00-0007	LF	1/2" Outside Diameter Soft Refrigeration Copper Tubing	8.56	4.16
23 23 16 00-0008	LF	5/8" Outside Diameter Soft Refrigeration Copper Tubing	9.38	4.21
23 23 16 00-0009	LF	3/4" Outside Diameter Soft Refrigeration Copper Tubing	10.24	4.36
23 23 16 00-0010	LF	7/8" Outside Diameter Soft Refrigeration Copper Tubing	13.16	5.12
23 23 16 00-0011	LF	1-1/8" Outside Diameter Soft Refrigeration Copper Tubing	16.68	5.86
23 23 16 00-0012	LF	1-3/8" Outside Diameter Soft Refrigeration Copper Tubing	23.97	6.94
23 23 16 00-0013	LF	1-5/8" Outside Diameter Soft Refrigeration Copper Tubing	28.84	7.76

23 23 16 00-0014 Type L Drawn, ACR Copper Tubing (23 23 16)
 Note: Nitrogenized. Lengths up to 20'. See CSI section 22 07 19 00-0372 for flexible elastomeric insulation (insulation on suction line only).

23 23 16 00-0015	LF	3/8" Outside Diameter Type L Drawn, ACR Copper Tubing	8.44	4.29
		<i>For Medical Applications "Oxygen Clean", Add</i>	0.75	
23 23 16 00-0016	LF	1/2" Outside Diameter Type L Drawn, ACR Copper Tubing	9.43	4.29
		<i>For Medical Applications "Oxygen Clean", Add</i>	0.80	
23 23 16 00-0017	LF	5/8" Outside Diameter Type L Drawn, ACR Copper Tubing	10.06	4.29
		<i>For Medical Applications "Oxygen Clean", Add</i>	0.83	
23 23 16 00-0018	LF	3/4" Outside Diameter Type L Drawn, ACR Copper Tubing	14.54	6.44
		<i>For Medical Applications "Oxygen Clean", Add</i>	1.21	
23 23 16 00-0019	LF	7/8" Outside Diameter Type L Drawn, ACR Copper Tubing	15.88	6.90
		<i>For Medical Applications "Oxygen Clean", Add</i>	1.31	
23 23 16 00-0020	LF	1-1/8" Outside Diameter Type L Drawn, ACR Copper Tubing	18.37	6.90
		<i>For Medical Applications "Oxygen Clean", Add</i>	1.44	
23 23 16 00-0021	LF	1-3/8" Outside Diameter Type L Drawn, ACR Copper Tubing	22.82	7.96
		<i>For Medical Applications "Oxygen Clean", Add</i>	1.74	
23 23 16 00-0022	LF	1-5/8" Outside Diameter Type L Drawn, ACR Copper Tubing	27.57	9.19
		<i>For Medical Applications "Oxygen Clean", Add</i>	2.07	
23 23 16 00-0023	LF	2-1/8" Outside Diameter Type L Drawn, ACR Copper Tubing	38.88	11.49
		<i>For Medical Applications "Oxygen Clean", Add</i>	2.80	
23 23 16 00-0024	LF	2-5/8" Outside Diameter Type L Drawn, ACR Copper Tubing	58.33	17.30
		<i>For Medical Applications "Oxygen Clean", Add</i>	4.22	
23 23 16 00-0025	LF	3-1/8" Outside Diameter Type L Drawn, ACR Copper Tubing	75.37	21.45
		<i>For Medical Applications "Oxygen Clean", Add</i>	5.38	
23 23 16 00-0026	LF	3-5/8" Outside Diameter Type L Drawn, ACR Copper Tubing	94.70	25.42
		<i>For Medical Applications "Oxygen Clean", Add</i>	6.65	
23 23 16 00-0027	LF	4-1/8" Outside Diameter Type L Drawn, ACR Copper Tubing	116.98	30.64
		<i>For Medical Applications "Oxygen Clean", Add</i>	8.15	

23 23 16 00-0028 Refrigeration Fittings (23 23 16)**23 23 16 00-0029 Brass Flare Fittings (23 23 16 00-0028)****23 23 16 00-0030 Brass Flare Unions (23 23 16 00-0029)**

23 23 16 00-0031	EA	3/8" Brass Flare Union	33.19	16.54
23 23 16 00-0032	EA	1/2" Brass Flare Union	33.19	16.54
23 23 16 00-0033	EA	5/8" Brass Flare Union	35.37	16.54

23 23 16 00-0034 90 Degree Elbow Brass Flare Unions (23 23 16 00-0029)

23 23 16 00-0035	EA	3/8" 90 Degree Brass Flare Elbow Union	34.51	16.54
23 23 16 00-0036	EA	1/2" 90 Degree Brass Flare Elbow Union	34.51	16.54
23 23 16 00-0037	EA	5/8" 90 Degree Brass Flare Elbow Union	41.83	16.54

23 23 16 00-0038 Brass Flare Tees (23 23 16 00-0029)

23 23 16 00-0039	EA	3/8" Brass Flare Tee	53.84	27.56
23 23 16 00-0040	EA	1/2" Brass Flare Tee	57.10	27.56
23 23 16 00-0041	EA	5/8" Brass Flare Tee	74.85	27.56



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	23 23 16 00-0042			Male Connector, Half Brass Flare Unions (23 23 16 00-0029)		
	23 23 16 00-0043	EA		3/8" Brass Flare Male Connector, Half Union	27.19	16.54
	23 23 16 00-0044	EA		1/2" Brass Flare Male Connector, Half Union	29.37	16.54
	23 23 16 00-0045	EA		5/8" Brass Flare Male Connector, Half Union	32.48	16.54
	23 23 16 00-0046			Female Connector, Half Brass Flare Unions (23 23 16 00-0029)		
	23 23 16 00-0047	EA		3/8" Brass Flare Female Connector, Half Union	30.00	16.54
	23 23 16 00-0048	EA		1/2" Brass Flare Female Connector, Half Union	32.96	16.54
	23 23 16 00-0049	EA		5/8" Brass Flare Female Connector, Half Union	32.96	16.54
	23 23 16 00-0050			Long Forged Nuts (23 23 16 00-0029)		
	23 23 16 00-0051	EA		3/8" Brass Long Forged Nut	28.52	16.54
	23 23 16 00-0052	EA		1/2" Brass Long Forged Nut	29.37	16.54
	23 23 16 00-0053	EA		5/8" Brass Long Forged Nut	38.86	16.54
	23 23 16 00-0054			Short Forged Nuts (23 23 16 00-0029)		
	23 23 16 00-0055	EA		3/8" Brass Short Forged Nut	27.28	16.54
	23 23 16 00-0056	EA		1/2" Brass Short Forged Nut	29.25	16.54
	23 23 16 00-0057	EA		5/8" Brass Short Forged Nut	29.66	16.54
	23 23 16 00-0058			ACR Wrought Copper Fittings (23 23 16 00-0028) Note: Soldered.		
	23 23 16 00-0059			ACR Wrought Copper Coupling (23 23 16 00-0058) Note: C x C		
	23 23 16 00-0060	EA		1/4" ACR Wrought Copper Coupling	26.68	16.54
	23 23 16 00-0061	EA		3/8" ACR Wrought Copper Coupling	26.33	16.54
	23 23 16 00-0062	EA		1/2" ACR Wrought Copper Coupling	26.85	16.54
	23 23 16 00-0063	EA		5/8" ACR Wrought Copper Coupling	27.77	17.30
	23 23 16 00-0064	EA		3/4" ACR Wrought Copper Coupling	39.00	22.83
	23 23 16 00-0065	EA		7/8" ACR Wrought Copper Coupling	38.66	23.44
	23 23 16 00-0066	EA		1-1/8" ACR Wrought Copper Coupling	50.71	29.10
	23 23 16 00-0067	EA		1-3/8" ACR Wrought Copper Coupling	72.24	39.83
	23 23 16 00-0068	EA		1-5/8" ACR Wrought Copper Coupling	86.65	46.72
	23 23 16 00-0069	EA		2-1/8" ACR Wrought Copper Coupling	112.51	56.68
	23 23 16 00-0070	EA		2-5/8" ACR Wrought Copper Coupling	191.20	86.08
	23 23 16 00-0071	EA		3-1/8" ACR Wrought Copper Coupling	254.48	113.20
	23 23 16 00-0072	EA		4-1/8" ACR Wrought Copper Coupling	394.26	134.49
	23 23 16 00-0073			ACR Wrought Copper Short Radius 90 Degree Elbows (23 23 16 00-0058) Note: C x C		
	23 23 16 00-0074	EA		1/4" ACR Wrought Copper Short Radius 90 Degree Elbow	31.37	16.54
	23 23 16 00-0075	EA		3/8" ACR Wrought Copper Short Radius 90 Degree Elbow	31.72	16.54
	23 23 16 00-0076	EA		1/2" ACR Wrought Copper Short Radius 90 Degree Elbow	31.37	16.54
	23 23 16 00-0077	EA		5/8" ACR Wrought Copper Short Radius 90 Degree Elbow	33.86	17.30
	23 23 16 00-0078	EA		3/4" ACR Wrought Copper Short Radius 90 Degree Elbow	48.57	22.83
	23 23 16 00-0079	EA		7/8" ACR Wrought Copper Short Radius 90 Degree Elbow	49.27	23.44
	23 23 16 00-0080	EA		1-1/8" ACR Wrought Copper Short Radius 90 Degree Elbow	62.55	29.10
	23 23 16 00-0081	EA		1-3/8" ACR Wrought Copper Short Radius 90 Degree Elbow	79.07	39.83
	23 23 16 00-0082	EA		1-5/8" ACR Wrought Copper Short Radius 90 Degree Elbow	100.27	46.72
	23 23 16 00-0083	EA		2-1/8" ACR Wrought Copper Short Radius 90 Degree Elbow	139.85	56.68
	23 23 16 00-0084	EA		2-5/8" ACR Wrought Copper Short Radius 90 Degree Elbow	238.97	86.08
	23 23 16 00-0085	EA		3-1/8" ACR Wrought Copper Short Radius 90 Degree Elbow	307.92	113.20
	23 23 16 00-0086	EA		4-1/8" ACR Wrought Copper Short Radius 90 Degree Elbow	555.26	134.49
	23 23 16 00-0087			ACR Wrought Copper Long Radius 90 Degree Elbows (23 23 16 00-0058) Note: C x C		
	23 23 16 00-0088	EA		1/4" ACR Wrought Copper Long Radius 90 Degree Elbow	37.23	16.54
	23 23 16 00-0089	EA		3/8" ACR Wrought Copper Long Radius 90 Degree Elbow	34.13	16.54
	23 23 16 00-0090	EA		1/2" ACR Wrought Copper Long Radius 90 Degree Elbow	36.59	16.54
	23 23 16 00-0091	EA		5/8" ACR Wrought Copper Long Radius 90 Degree Elbow	36.68	17.30
	23 23 16 00-0092	EA		3/4" ACR Wrought Copper Long Radius 90 Degree Elbow	45.12	22.83
	23 23 16 00-0093	EA		7/8" ACR Wrought Copper Long Radius 90 Degree Elbow	48.90	23.44
	23 23 16 00-0094	EA		1-1/8" ACR Wrought Copper Long Radius 90 Degree Elbow	65.80	29.10
	23 23 16 00-0095	EA		1-3/8" ACR Wrought Copper Long Radius 90 Degree Elbow	95.78	39.83
	23 23 16 00-0096	EA		1-5/8" ACR Wrought Copper Long Radius 90 Degree Elbow	118.51	46.72
	23 23 16 00-0097	EA		2-1/8" ACR Wrought Copper Long Radius 90 Degree Elbow	212.23	56.68
	23 23 16 00-0098	EA		2-5/8" ACR Wrought Copper Long Radius 90 Degree Elbow	330.59	86.08
	23 23 16 00-0099	EA		3-1/8" ACR Wrought Copper Long Radius 90 Degree Elbow	436.67	113.20
	23 23 16 00-0100	EA		4-1/8" ACR Wrought Copper Long Radius 90 Degree Elbow	916.61	134.49

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 20 HVAC Piping and Pumps

23 23 Refrigerant Piping



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 23 16 00-0101 ACR Wrought Copper 45 Degree Elbow <small>(23 23 16 00-0058)</small> Note: C x C		
23 23 16 00-0102 EA 1/4" ACR Wrought Copper 45 Degree Elbow	41.49	16.54
23 23 16 00-0103 EA 3/8" ACR Wrought Copper 45 Degree Elbow	37.23	16.54
23 23 16 00-0104 EA 1/2" ACR Wrought Copper 45 Degree Elbow	35.42	16.54
23 23 16 00-0105 EA 5/8" ACR Wrought Copper 45 Degree Elbow	30.32	17.30
23 23 16 00-0106 EA 3/4" ACR Wrought Copper 45 Degree Elbow	53.10	22.83
23 23 16 00-0107 EA 7/8" ACR Wrought Copper 45 Degree Elbow	42.63	23.44
23 23 16 00-0108 EA 1-1/8" ACR Wrought Copper 45 Degree Elbow	62.51	29.10
23 23 16 00-0109 EA 1-3/8" ACR Wrought Copper 45 Degree Elbow	85.08	39.83
23 23 16 00-0110 EA 1-5/8" ACR Wrought Copper 45 Degree Elbow	100.65	46.72
23 23 16 00-0111 EA 2-1/8" ACR Wrought Copper 45 Degree Elbow	135.88	56.68
23 23 16 00-0112 EA 2-5/8" ACR Wrought Copper 45 Degree Elbow	237.64	86.08
23 23 16 00-0113 EA 3-1/8" ACR Wrought Copper 45 Degree Elbow	321.35	113.20
23 23 16 00-0114 EA 4-1/8" ACR Wrought Copper 45 Degree Elbow	524.58	134.49
23 23 16 00-0115 ACR Wrought Copper Tee <small>(23 23 16 00-0058)</small> Note: C x C x C		
23 23 16 00-0116 EA 1/4" ACR Wrought Copper Tee	54.67	27.56
23 23 16 00-0117 EA 3/8" ACR Wrought Copper Tee	55.42	27.56
23 23 16 00-0118 EA 1/2" ACR Wrought Copper Tee	52.64	27.56
23 23 16 00-0119 EA 5/8" ACR Wrought Copper Tee	56.02	34.77
23 23 16 00-0120 EA 3/4" ACR Wrought Copper Tee	77.82	34.77
23 23 16 00-0121 EA 7/8" ACR Wrought Copper Tee	62.48	35.23
23 23 16 00-0122 EA 1-1/8" ACR Wrought Copper Tee	99.97	46.72
23 23 16 00-0123 EA 1-3/8" ACR Wrought Copper Tee	125.29	56.68
23 23 16 00-0124 EA 1-5/8" ACR Wrought Copper Tee	163.08	67.25
23 23 16 00-0125 EA 2-1/8" ACR Wrought Copper Tee	231.53	89.61
23 23 16 00-0126 EA 2-5/8" ACR Wrought Copper Tee	489.22	195.61
23 23 16 00-0127 EA 3-1/8" ACR Wrought Copper Tee	603.73	215.06
23 23 16 00-0128 EA 4-1/8" ACR Wrought Copper Tee	1,039.00	238.96
23 23 16 00-0129 ACR Wrought Copper Male Adapter <small>(23 23 16 00-0058)</small> Note: C x M		
23 23 16 00-0130 EA 1/4" ACR Wrought Copper Male Adapter	45.72	16.54
23 23 16 00-0131 EA 3/8" ACR Wrought Copper Male Adapter	52.53	16.54
23 23 16 00-0132 EA 1/2" ACR Wrought Copper Male Adapter	41.22	16.54
23 23 16 00-0133 ACR Wrought Copper Female Adapter <small>(23 23 16 00-0058)</small> Note: C x F		
23 23 16 00-0134 EA 1/4" ACR Wrought Copper Female Adapter	43.05	16.54
23 23 16 00-0135 EA 3/8" ACR Wrought Copper Female Adapter	39.14	16.54
23 23 16 00-0136 EA 1/2" ACR Wrought Copper Female Adapter	40.62	16.54
23 23 16 00-0137 ACR Wrought Copper Cap <small>(23 23 16 00-0058)</small> Note: C		
23 23 16 00-0138 EA 1/4" ACR Wrought Copper Cap	19.75	11.03
23 23 16 00-0139 EA 3/8" ACR Wrought Copper Cap	18.52	11.03
23 23 16 00-0140 EA 1/2" ACR Wrought Copper Cap	19.72	11.03
23 23 16 00-0141 ACR Wrought Copper P-Trap <small>(23 23 16 00-0058)</small>		
23 23 16 00-0142 EA 5/8" ACR Wrought Copper P-Trap	122.99	14.10
23 23 16 00-0143 EA 3/4" ACR Wrought Copper P-Trap	166.79	15.51
23 23 16 00-0144 EA 7/8" ACR Wrought Copper P-Trap	145.88	15.51
23 23 16 00-0145 EA 1-1/8" ACR Wrought Copper P-Trap	197.98	16.92
23 23 16 00-0146 EA 1-3/8" ACR Wrought Copper P-Trap	343.51	16.92
23 23 16 00-0147 EA 1-5/8" ACR Wrought Copper P-Trap	483.59	18.34
23 23 16 00-0148 EA 2-1/8" ACR Wrought Copper P-Trap	870.65	19.75
23 23 16 00-0149 Sight Glass With Moisture And Liquid Indicator, Solder Connection <small>(23 23 16)</small>		
23 23 16 00-0150 EA 1/4" Outside Diameter Sight Glass With Moisture And Liquid Indicator, Solder Connection	70.30	21.16
23 23 16 00-0151 EA 3/8" Outside Diameter Sight Glass With Moisture And Liquid Indicator, Solder Connection	85.05	25.39
23 23 16 00-0152 EA 1/2" Outside Diameter Sight Glass With Moisture And Liquid Indicator, Solder Connection	102.37	31.02
23 23 16 00-0153 EA 5/8" Outside Diameter Sight Glass With Moisture And Liquid Indicator, Solder Connection	113.21	35.26
23 23 16 00-0154 EA 7/8" Outside Diameter Sight Glass With Moisture And Liquid Indicator, Solder Connection	151.20	45.13
23 23 16 00-0155 EA 1-1/8" Outside Diameter Sight Glass With Moisture And Liquid Indicator, Solder Connection	176.29	55.01
23 23 16 00-0156 EA 1-3/8" Outside Diameter Sight Glass With Moisture And Liquid Indicator, Solder Connection	263.68	64.88
23 23 16 00-0157 EA 1-5/8" Outside Diameter Sight Glass With Moisture And Liquid Indicator, Solder Connection	329.05	88.86
23 23 16 00-0158 EA 2-1/8" Outside Diameter Sight Glass With Moisture And Liquid Indicator, Solder Connection	404.81	110.02
23 23 16 00-0159 Filter Driers, Solder Connections <small>(23 23 16)</small>		
23 23 16 00-0160 Replaceable Core Type Filter Driers, Solder Connections <small>(23 23 16 00-0159)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 23 16 00-0161 EA 5/8" Outside Diameter Replaceable Core Type Filter Drier, Solder Connections	572.38	12.70
23 23 16 00-0162 EA 7/8" Outside Diameter Replaceable Core Type Filter Drier, Solder Connections	586.32	15.51
23 23 16 00-0163 EA 1-1/8" Outside Diameter Replaceable Core Type Filter Drier, Solder Connections	751.25	15.51
23 23 16 00-0164 EA 1-3/8" Outside Diameter Replaceable Core Type Filter Drier, Solder Connections	759.17	16.92
23 23 16 00-0165 EA 1-5/8" Outside Diameter Replaceable Core Type Filter Drier, Solder Connections	854.38	18.34
23 23 16 00-0166 EA 2-1/8" Outside Diameter Replaceable Core Type Filter Drier, Solder Connections	978.08	19.75
23 23 16 00-0167 EA 2-5/8" Outside Diameter Replaceable Core Type Filter Drier, Solder Connections	1,146.17	21.16
23 23 16 00-0168 EA 3-1/8" Outside Diameter Replaceable Core Type Filter Drier, Solder Connections	1,431.12	21.16
23 23 16 00-0169 Sealed In-Line Filter Driers, Solder Connections <small>(23 23 16 00-0159)</small>		
23 23 16 00-0170 EA 1/4" Outside Diameter, 1/4 To 1 Ton, Sealed In-Line Filter Drier, Solder Connections.....	107.99	12.70
23 23 16 00-0171 EA 3/8" Outside Diameter, 1/2 To 2 Ton, Sealed In-Line Filter Drier, Solder Connections	138.03	12.70
23 23 16 00-0172 EA 1/2" Outside Diameter, 1 To 7 Ton, Sealed In-Line Filter Drier, Solder Connections	175.50	14.10
23 23 16 00-0173 EA 1/2" Outside Diameter, 2 To 7-1/2 Ton, Sealed In-Line Filter Drier, Solder Connections	201.66	14.10
23 23 16 00-0174 EA 5/8" Outside Diameter, 2 To 10 Ton, Sealed In-Line Filter Drier, Solder Connections.....	222.69	14.10
23 23 16 00-0175 EA 5/8" Outside Diameter, 4 To 8 Ton, Sealed In-Line Filter Drier, Solder Connections	250.88	14.10
23 23 16 00-0176 EA 7/8" Outside Diameter, 5 To 20 Ton, Sealed In-Line Filter Drier, Solder Connections	283.05	15.51
23 23 16 00-0177 EA 7/8" Outside Diameter, 7-1/2 To 20 Ton, Sealed In-Line Filter Drier, Solder Connections	394.76	15.51
23 23 16 00-0178 EA 1-1/8" Outside Diameter, 15 To 25 Ton, Sealed In-Line Filter Drier, Solder Connections	433.29	15.51
23 23 16 00-0179 Bi-Flow Filter Driers, Solder Connections <small>(23 23 16 00-0159)</small>		
23 23 16 00-0180 EA 1/4" Outside Diameter, 1 To 3-1/2 Ton, Bi-Flow Filter Drier, Solder Connections	142.97	12.70
23 23 16 00-0181 EA 3/8" Outside Diameter, 1 To 3-1/2 Ton, Bi-Flow Filter Drier, Solder Connections	162.93	12.70
23 23 16 00-0182 EA 1/2" Outside Diameter, 1 To 3-1/2 Ton, Bi-Flow Filter Drier, Solder Connections	195.87	14.10
23 23 16 00-0183 EA 3/8" Outside Diameter, 1 To 8 Ton, Bi-Flow Filter Drier, Solder Connections.....	172.80	12.70
23 23 16 00-0184 EA 1/2" Outside Diameter, 1 To 8 Ton, Bi-Flow Filter Drier, Solder Connections	216.23	14.10
23 23 16 00-0185 EA 5/8" Outside Diameter, 1 To 8 Ton, Bi-Flow Filter Drier, Solder Connections.....	254.37	14.10
23 23 16 00-0186 Refrigerant Compressor Discharge Mufflers <small>(23 23 16)</small>		
23 23 16 00-0187 EA 3/8" Outside Diameter, 2 Ton, Refrigerant Compressor Discharge Muffler	133.29	12.70
23 23 16 00-0188 EA 1/2" Outside Diameter, 3 Ton, Refrigerant Compressor Discharge Muffler	147.33	12.70
23 23 16 00-0189 EA 5/8" Outside Diameter, 5 Ton, Refrigerant Compressor Discharge Muffler	177.00	12.70
23 23 16 00-0190 EA 7/8" Outside Diameter, 7-1/2 To 10 Ton, Refrigerant Compressor Discharge Muffler	238.31	15.51
23 23 16 00-0191 EA 1-1/8" Outside Diameter, 10 To 15 Ton, Refrigerant Compressor Discharge Muffler	312.14	15.51
23 23 16 00-0192 EA 1-3/8" Outside Diameter, 15 To 25 Ton, Refrigerant Compressor Discharge Muffler	371.51	16.92
23 23 16 00-0193 EA 1-5/8" Outside Diameter, 25 To 50 Ton, Refrigerant Compressor Discharge Muffler	469.66	18.34
23 23 16 00-0194 EA 2-1/8" Outside Diameter, 50 To 75 Ton, Refrigerant Compressor Discharge Muffler	823.45	19.75
23 23 16 00-0195 EA 2-5/8" Outside Diameter, 75 To 100 Ton, Refrigerant Compressor Discharge Muffler	929.47	21.16
23 23 16 00-0196 EA 3-1/8" Outside Diameter, 100 To 125 Ton, Refrigerant Compressor Discharge Muffler	1,151.94	21.16
23 23 16 00-0197 Expansion Valves And Vibration Absorbers <small>(23 23 16)</small>		
23 23 16 00-0198 Thermostatic Expansion Valves <small>(23 23 16 00-0197)</small>		
Note: Outside diameter pipe sizes. Sporlan TP-S.		
23 23 16 00-0199 EA 3/8" In x 5/8" Out, 1/2 To 3 Ton, Thermostatic Expansion Valve	266.36	12.70
23 23 16 00-0200 EA 1/2" In x 7/8" Out, 4 To 5 Ton, Thermostatic Expansion Valve	370.41	14.10
23 23 16 00-0201 EA 5/8" In x 7/8" Out, 6 To 8 Ton, Thermostatic Expansion Valve	615.57	14.10
23 23 16 00-0202 EA 7/8" In x 1-1/8" Out, 7 To 12 Ton, Thermostatic Expansion Valve	730.47	15.51
23 23 16 00-0203 EA 7/8" In x 1-3/8" Out, 15 To 20 Ton, Thermostatic Expansion Valve	800.99	15.51
23 23 16 00-0204 Electric Expansion Valves <small>(23 23 16 00-0197)</small>		
Note: Sporlan SEI or SEH.		
23 23 16 00-0205 EA 1/2 To 11 Ton Electric Expansion Valve	632.78	17.62
Note: Sporlan SEI.		
23 23 16 00-0206 EA 25 Ton Electric Expansion Valve	729.36	18.34
Note: Sporlan SEI.		
23 23 16 00-0207 EA 50 Ton Electric Expansion Valve	826.46	19.04
Note: Sporlan SEI.		
23 23 16 00-0208 EA 100 Ton Electric Expansion Valve	977.54	19.04
Note: Sporlan SEH.		
23 23 16 00-0209 EA 175 Ton Electric Expansion Valve	1,098.78	19.75
Note: Sporlan SEH.		
23 23 16 00-0210 Braided Stainless Steel Over Copper Vibration Absorber <small>(23 23 16 00-0197)</small>		
23 23 16 00-0211 EA 1/4" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber.....	70.95	18.34
23 23 16 00-0212 EA 3/8" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber.....	73.39	21.16
23 23 16 00-0213 EA 1/2" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber.....	94.46	26.80
23 23 16 00-0214 EA 5/8" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber.....	103.10	32.44
23 23 16 00-0215 EA 3/4" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber.....	122.08	39.50
23 23 16 00-0216 EA 7/8" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber.....	140.70	45.13
23 23 16 00-0217 EA 1-1/8" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber	200.52	16.92
23 23 16 00-0218 EA 1-3/8" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber	277.16	18.34
23 23 16 00-0219 EA 1-5/8" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber	342.43	18.34
23 23 16 00-0220 EA 2-1/8" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber	459.57	19.75
23 23 16 00-0221 EA 2-5/8" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber	769.56	21.16

23 Heating, Ventilating, and Air-Conditioning (HVAC)**23 20 HVAC Piping and Pumps****23 23 Refrigerant Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 23 16 00-0222 EA 3-1/8" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber.....	1,004.66	21.16
23 23 16 00-0223 Accumulator, Refrigerant Suction Line (23 23 16)		
23 23 16 00-0224 EA 3/4" Accumulator, Refrigeration Suction Line.....	229.55	64.17
23 23 16 00-0225 EA 7/8" Accumulator, Refrigeration Suction Line.....	311.65	88.14
23 23 16 00-0226 EA 1-1/8" Accumulator, Refrigeration Suction Line.....	376.74	117.49
23 23 16 00-0227 EA 1 3/8" Accumulator, Refrigeration Suction Line.....	520.77	141.04
23 23 16 00-0228 EA 1-5/8" Accumulator, Refrigeration Suction Line.....	710.34	176.30
23 23 16 00-0229 EA 2-1/8" Accumulator, Refrigeration Suction Line.....	1,066.71	235.11
23 23 16 00-0230 Special Chemicals/Component (23 23 16)		
23 23 16 00-0231 GAL Special Chemical, Inhibited Propylene Glycol, 100%.....	41.86	
23 23 16 00-0232 GAL Removal And Storage For Reuse Of Inhibited Propylene Glycol.....	10.94	
23 23 16 00-0233 GAL Special Chemical, Inhibited Ethylene Glycol, 100%.....	28.72	
23 23 16 00-0234 EA Internal Coil/Refrigerant Piping Flush.....	379.59	
Note: Up to 10 ton AC system.		
23 23 23 Refrigerants (23 23)		
23 23 23 00-0001 Refrigerant (23 23 23)		
23 23 23 00-0002 LB R-113 Refrigerant.....	42.98	
23 23 23 00-0003 LB R-123 Refrigerant.....	31.53	
23 23 23 00-0004 LB R-134A Refrigerant.....	11.24	
23 23 23 00-0005 LB R-404A Refrigerant.....	20.11	
23 23 23 00-0006 LB R-407C Refrigerant.....	19.89	
23 23 23 00-0007 LB R-408A Refrigerant.....	45.35	
23 23 23 00-0008 LB R-410A Refrigerant.....	19.49	
23 23 23 00-0009 LB R-500 Refrigerant.....	38.53	
23 23 23 00-0010 LB R-507 Refrigerant.....	12.40	
23 25 HVAC Water Treatment (23 20)		
23 25 13 Water Treatment for Closed-Loop Hydronic Systems (23 25)		
23 25 13 00-0001 Polyethylene Chemical Storage Tanks (23 25 13)		
23 25 13 00-0002 EA 15 Gallon Chemical Storage Tank, Polyethylene.....	566.45	117.80
23 25 13 00-0003 Gas Chlorinator (23 25 13)		
23 25 13 00-0004 EA Gas Chlorinator, Wall Or Cylinder Mounted (10 PPD) With Metering Tube And Rate Valve Metering Tube Supply Indicator, Rate Valve, And Diffuser-Ejector Unit.....	1,422.05	535.96
<i>For Booster Pump, Add</i>	584.92	
23 25 13 00-0005 EA Gas Chlorinator, Wall Or Cylinder Mounted (25 PPD) With Metering Tube And Rate Valve Metering Tube Supply Indicator, Rate Valve, And Diffuser-Ejector Unit.....	1,624.90	612.52
<i>For Booster Pump, Add</i>	668.64	
23 25 13 00-0006 EA Gas Chlorinator, Wall Or Cylinder Mounted (50 PPD) With Metering Tube And Rate Valve Metering Tube Supply Indicator, Rate Valve, And Diffuser-Ejector Unit.....	2,165.22	463.98
<i>For Booster Pump, Add</i>	804.29	
23 25 13 00-0007 Bypass Shot Feeders (23 25 13)		
Note: Includes up to 4 ports (in, out, fill and drain). Excludes valves.		
23 25 13 00-0008 In Line Mount, 125 PSIG (23 25 13 00-0007)		
23 25 13 00-0009 EA 1.7 Gallon Bypass Shot Chemical Feeder In Line Mount, 125 PSIG.....	1,355.47	399.14
23 25 13 00-0010 Floor Mount, 175 PSIG (23 25 13 00-0007)		
23 25 13 00-0011 EA 5 Gallon Bypass Shot Chemical Feeder, Floor Mount, 175 PSIG.....	2,003.76	600.83
23 25 13 00-0012 EA 12 Gallon Bypass Shot Chemical Feeder, Floor Mount, 175 PSIG.....	2,644.86	795.46
23 25 13 00-0013 Floor Mount, 150 LB ASME Code (23 25 13 00-0007)		
23 25 13 00-0014 EA 5 Gallon Bypass Shot Chemical Feeder, Floor Mount, 150 LB ASME Code.....	2,003.76	600.83
23 25 13 00-0015 EA 10 Gallon Bypass Shot Chemical Feeder, Floor Mount, 150 LB ASME Code.....	2,644.86	795.46
23 25 13 00-0016 Floor Mount, 300 LB ASME Code (23 25 13 00-0007)		
23 25 13 00-0017 EA 5 Gallon Bypass Shot Chemical Feeder, Floor Mount, 300 LB ASME Code.....	2,388.47	600.83
23 25 13 00-0018 EA 10 Gallon Bypass Shot Chemical Feeder, Floor Mount, 300 LB ASME Code.....	3,044.33	795.46



Heating, Ventilating, and Air-Conditioning (HVAC)		23	23
HVAC Piping and Pumps		23 20	
HVAC Water Treatment		23 25	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
------------------------------	---------------------------	-------------------------

END OF SECTION 23

23 Heating, Ventilating, and Air-Conditioning (HVAC)

23 20 HVAC Piping and Pumps

23 25 HVAC Water Treatment



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

THIS PAGE INTENTIONALLY LEFT BLANK



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
------------------------------	---------------------------	-------------------------

26 Electrical

Note: Termination costs are included with all electrical equipment, panel boards, fixtures and devices. Terminations are not included with patch panels. Electrical equipment and lighting shall conform to California Title 24.

26 01 Operation and Maintenance of Electrical Systems ⁽²⁶⁾

26 01 10 Operation and Maintenance of Medium-Voltage Electrical Distribution ^(26 01)

26 01 10 91 Medium-Voltage Electrical Distribution Restoration ^(26 01 10)

26 01 10 91-0001	Retrofit Distribution Enclosures ^(26 01 10 91) Note: Includes removal of equipment housing, punch or drill hole for window, touch-up area, and reinstallation of equipment housing.	
26 01 10 91-0002	EA 2" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 3/12 Rated (Flir IRW-2C)	562.22
	Note: 2mm thick, aluminum frame, hinged cover.	
	For Up To 20, Add	116.97
	For >20 To 50, Add	93.58
	For >50 To 100, Add	46.79
26 01 10 91-0003	EA 3" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 3/12 Rated (Flir IRW-3C)	729.93
	Note: 2mm thick, aluminum frame, hinged cover.	
	For Up To 20, Add	158.90
	For >20 To 50, Add	127.12
	For >50 To 100, Add	63.56
26 01 10 91-0004	EA 4" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 3/12 Rated (Flir IRW-4C)	1,098.88
	Note: 4mm thick, aluminum frame, hinged cover.	
	For Up To 20, Add	251.14
	For >20 To 50, Add	200.91
	For >50 To 100, Add	100.46
26 01 10 91-0005	EA 3" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 1 Rated (Fluke CLKTO)	557.44
	Note: 2mm thick, aluminum frame, twist cover.	
	For Up To 20, Add	115.78
	For >20 To 50, Add	92.62
	For >50 To 100, Add	46.31
26 01 10 91-0006	EA 2" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 3/12 Rated (Fluke CLKT-2)	560.39
	Note: 2mm thick, aluminum frame, twist cover.	
	For Up To 20, Add	116.52
	For >20 To 50, Add	93.21
	For >50 To 100, Add	46.61
26 01 10 91-0007	EA 3" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 3/12 Rated (Fluke CLKT-3)	716.27
	Note: 2mm thick, aluminum frame, twist cover.	
	For Up To 20, Add	155.49
	For >20 To 50, Add	124.39
	For >50 To 100, Add	62.19
26 01 10 91-0008	EA 4" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 3/12 Rated (Fluke CLKT-4)	1,068.55
	Note: 4mm thick, aluminum frame, twist cover.	
	For Up To 20, Add	243.56
	For >20 To 50, Add	194.84
	For >50 To 100, Add	97.42
26 01 10 91-0009	EA 2" Infrared Window Pane Installed In Medium Voltage Equipment, NEMA Type 4 Rated (Schneider Electric VVPR)	441.48
	Note: 0.25mm thick, composite frame, metal grille reinforced polymer.	
	For Up To 20, Add	86.79
	For >20 To 50, Add	69.43
	For >50 To 100, Add	34.72
26 01 10 91-0010	EA 3" Infrared Window Pane Installed In Medium Voltage Equipment, NEMA Type 4 Rated (Schneider Electric VVPR)	622.60
	Note: 0.25mm thick, composite frame, metal grille reinforced polymer.	
	For Up To 20, Add	132.07
	For >20 To 50, Add	105.65
	For >50 To 100, Add	52.83
26 01 10 91-0011	EA 4" Infrared Window Pane Installed In Medium Voltage Equipment, NEMA Type 4 Rated (Schneider Electric VVPR)	886.73
	Note: 0.25mm thick, composite frame, metal grille reinforced polymer.	
	For Up To 20, Add	198.10
	For >20 To 50, Add	158.48
	For >50 To 100, Add	79.24
26 01 10 91-0012	EA 2" Infrared Window Installed In Medium Voltage Equipment, Longwave, NEMA Type 4 Rated (Schneider Electric IRHVIR)	808.36
	Note: 4mm thick, aluminum frame, magnetic cover.	
	For Up To 20, Add	178.51
	For >20 To 50, Add	142.81
	For >50 To 100, Add	71.40
26 01 10 91-0013	EA 3" Infrared Window Installed In Medium Voltage Equipment, Longwave, NEMA Type 4 Rated (Schneider Electric IRHVIR)	1,111.39
	Note: 4mm thick, aluminum frame, magnetic cover.	
	For Up To 20, Add	254.27
	For >20 To 50, Add	203.41
	For >50 To 100, Add	101.71

26 Electrical**26 01 Operation and Maintenance of Electrical Systems****26 01 10 Operation and Maintenance of Medium-Voltage Electrical Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 10 91-0014 EA 4" Infrared Window Installed In Medium Voltage Equipment, Longwave, NEMA Type 4 Rated (Schneider Electric IRHVIR).....	2,036.92	
Note: 4mm thick, aluminum frame, magnetic cover.		
For Up To 20, Add	485.65	
For >20 To 50, Add	388.52	
For >50 To 100, Add	194.26	
26 01 10 91-0015 EA 3" Infrared Window Installed In Medium Voltage Equipment, Shortwave, NEMA Type 4 Rated (Schneider Electric IRHVIR).....	928.80	
Note: 4mm thick, aluminum frame, magnetic cover.		
For Up To 20, Add	208.62	
For >20 To 50, Add	166.89	
For >50 To 100, Add	83.45	
26 01 10 91-0016 EA 4" Infrared Window Installed In Medium Voltage Equipment, Shortwave, NEMA Type 4 Rated (Schneider Electric IRHVIR).....	1,367.57	
Note: 4mm thick, aluminum frame, magnetic cover.		
For Up To 20, Add	318.31	
For >20 To 50, Add	254.65	
For >50 To 100, Add	127.32	

26 01 20 Operation and Maintenance of Low-Voltage Electrical**Distribution** (26 01)**26 01 20 91 Low-Voltage Electrical Distribution Restoration** (26 01 20)

26 01 20 91-0001	Lock Out/Tag Out Devices <small>(26 01 20 91)</small>	
	Note: Includes following OSHA procedures and completing Owner's paperwork. Excludes circuit tracing.	
26 01 20 91-0002 EA	Lock Out/Tag Out Local Disconnect.....	55.45
	Note: Excludes tag or padlock See CSI section 26 01 20 91-0004 for padlock, 26 01 20 91-0005 for tag(s).	
26 01 20 91-0003 EA	Lock Out/Tag Out Breaker Or Motor Starter.....	55.45
	Note: Excludes tag or padlock See CSI section 26 01 20 91-0004 for padlock, 26 01 20 91-0005 for tag(s).	
26 01 20 91-0004 EA	Lock Out Padlock Device.....	15.41
	Note: Includes the installation and removal of pad lock when required	
26 01 20 91-0005 EA	Lock Out Tags.....	5.75
	Note: Includes filling out tag information, installation and removal of identifying tags.	
26 01 20 91-0006	Existing Circuit Tracing <small>(26 01 20 91)</small>	
26 01 20 91-0007 EA	Motors, Diconnects And Other Single Source Devices, Existing Circuit Tracing Per Device.....	32.05
26 01 20 91-0008 EA	Lighting, Existing Circuit Tracing Per Circuit.....	32.05

26 01 30 Operation and Maintenance of Facility Electrical Power**Generating and Storing Equipment** (26 01)**26 01 30 91 Facility Electrical Power Generating and Storing Equipment Restoration** (26 01

26 01 30 91-0001	Emergency Generator Permits <small>(26 01 30 91)</small>	
26 01 30 91-0002	Air Pollution Control Board <small>(26 01 30 91-0001)</small>	
26 01 30 91-0003 EA	APCD Permit To Construct And Operate Emergency Generator.....	4,871.26

26 01 50 Operation and Maintenance of Lighting (26 01)**26 01 50 51 Luminaire Relamping** (26 01 50)

26 01 50 51-0001	Replace Lamps In Existing Fixtures <small>(26 01 50 51)</small>	
	Note: Includes removal of existing lamp from fixture and installation of new lamp. Excludes disposal of hazardous lamps.	
26 01 50 51-0002	Halogen Lamps <small>(26 01 50 51-0001)</small>	
26 01 50 51-0003 EA	300 Watt, T3, Tungsten Halogen Lamp.....	50.48
26 01 50 51-0004 EA	500 Watt, T3, Tungsten Halogen Lamp.....	63.43
26 01 50 51-0005 EA	1,000 Watt, T3, Tungsten Halogen Lamp.....	92.38
26 01 50 51-0006 EA	60 Watt, PAR38, Halogen Lamp.....	28.32
26 01 50 51-0007 EA	75 Watt, PAR38, Halogen Lamp.....	28.32
26 01 50 51-0008 EA	90 Watt, PAR38, Halogen Lamp.....	27.17
26 01 50 51-0009 EA	100 Watt, PAR38, Halogen Lamp.....	27.17
26 01 50 51-0010 EA	60 Watt, PAR38, Halogen IR Reflective Lamp.....	40.75
26 01 50 51-0011 EA	67 Watt, PAR38, Halogen IR Reflective Lamp.....	44.41
26 01 50 51-0012 EA	70 Watt, PAR38, Halogen IR Reflective Lamp.....	43.46
26 01 50 51-0013 EA	90 Watt, PAR38, Halogen IR Reflective Lamp.....	46.26
26 01 50 51-0014 EA	100 Watt, PAR38, Halogen IR Reflective Lamp.....	46.85
26 01 50 51-0015 EA	12 Watt, 10 Degree Beam, Base B01, Halogen Lamp (Soraa MR16-65-B01-12-830-10).....	24.31
26 01 50 51-0016 EA	12 Watt, 20 Degree Beam, Base B01, Halogen Lamp (Soraa MR16-75-B01-12-830-20).....	24.31
26 01 50 51-0017 EA	12 Watt, 25 Degree Beam, Base B01, Halogen Lamp (Soraa MR16-75-B01-12-830-25).....	26.22
26 01 50 51-0018 EA	12 Watt, 36 Degree Beam, Base B01, Halogen Lamp (Soraa MR16-75-B01-12-830-36).....	26.22
26 01 50 51-0019	Incandescent Lamps <small>(26 01 50 51-0001)</small>	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 51-0020 EA 100 Watt, Frosted, Interior Incandescent Lamp	8.43	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.55	
26 01 50 51-0021 EA 150 Watt, Frosted, Interior Incandescent Lamp	9.88	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.55	
26 01 50 51-0022 EA 200 Watt, Frosted, Interior Incandescent Lamp	11.53	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.55	
26 01 50 51-0023 EA 300 Watt, PS25, Interior Incandescent Lamp	13.59	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.55	
26 01 50 51-0024 EA 60 Watt, G25, Clear, Interior Incandescent Lamp	10.81	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.55	
26 01 50 51-0025 EA 75 Watt, R20, Interior Incandescent Lamp	16.17	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.06	
26 01 50 51-0026 EA 75 Watt, PAR38, Exterior Incandescent Lamp	19.06	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.06	
26 01 50 51-0027 EA 100 Watt, PAR38, Exterior Incandescent Lamp	17.91	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.06	
26 01 50 51-0028 EA 150 Watt, PAR38, Exterior Incandescent Lamp	28.87	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.06	
26 01 50 51-0029 EA 250 Watt, PAR38, Exterior Incandescent Lamp	56.98	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.56	
26 01 50 51-0030 EA 300 Watt, PAR56, Exterior Incandescent Lamp	65.03	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.56	
26 01 50 51-0031 Exit Light Lamps <small>(26 01 50 51-0001)</small>		
26 01 50 51-0032 EA Convert Exit Light Lamps To Red LED Lamps	136.46	
<i>For Green LED Lamps, Add</i>	25.00	
26 01 50 51-0033 EA Fluorescent Lamp For Exit Light	38.13	
<i>For Multiple Lamps In Fixture, Deduct</i>	-10.19	
26 01 50 51-0034 EA Lamp Replacement For Emergency Lights On Exit Sign	41.69	
<i>For Multiple Lamps In Fixture, Deduct</i>	-5.10	
26 01 50 51-0035 Fluorescent Lamps <small>(26 01 50 51-0001)</small>		
26 01 50 51-0036 EA 18", 15 Watt, T8 Fluorescent Lamp	15.39	
<i>For Multiple Lamps In Fixture, Deduct</i>	-4.07	
26 01 50 51-0037 EA 2', 17 Watt, T8 Fluorescent Lamp	18.02	
<i>For Multiple Lamps In Fixture, Deduct</i>	-4.07	
26 01 50 51-0038 EA 3', 25 Watt, T8 Fluorescent Lamp	20.65	
<i>For Multiple Lamps In Fixture, Deduct</i>	-4.58	
26 01 50 51-0039 EA 4', 32 Watt, T8 Fluorescent Lamp	20.52	
<i>For Multiple Lamps In Fixture, Deduct</i>	-4.58	
26 01 50 51-0040 EA 4', 30 Watt, T8 Fluorescent Lamp	25.19	
<i>For Multiple Lamps In Fixture, Deduct</i>	-4.58	
26 01 50 51-0041 EA 4', 28 Watt, T8 Fluorescent Lamp	22.42	
<i>For Multiple Lamps In Fixture, Deduct</i>	-4.58	
26 01 50 51-0042 EA 4', 25 Watt, T8 Fluorescent Lamp	22.31	
<i>For Multiple Lamps In Fixture, Deduct</i>	-4.58	
26 01 50 51-0043 EA 4', 44 Watt, T8HO Fluorescent Lamp	34.22	
<i>For Multiple Lamps In Fixture, Deduct</i>	-4.58	
26 01 50 51-0044 EA 8', 59 Watt, T8 Fluorescent Lamp	26.74	
<i>For Multiple Lamps In Fixture, Deduct</i>	-4.58	
26 01 50 51-0045 EA 18", 15 Watt, T12 Fluorescent Lamp	22.02	
<i>For Multiple Lamps In Fixture, Deduct</i>	-4.07	
26 01 50 51-0046 EA 2', 20 Watt, T12 Fluorescent Lamp	17.27	
<i>For Multiple Lamps In Fixture, Deduct</i>	-4.07	
26 01 50 51-0047 EA 3', 30 Watt, T12 Fluorescent Lamp	19.40	
<i>For Multiple Lamps In Fixture, Deduct</i>	-4.58	
26 01 50 51-0048 EA 4', 34 Watt, T12 Fluorescent Lamp	19.48	
<i>For Multiple Lamps In Fixture, Deduct</i>	-4.58	
26 01 50 51-0049 EA 4', 40 Watt, T12 Fluorescent Lamp	19.14	
<i>For Multiple Lamps In Fixture, Deduct</i>	-4.58	
26 01 50 51-0050 EA 8', 60 Watt, T12 Fluorescent Lamp	27.35	
<i>For Multiple Lamps In Fixture, Deduct</i>	-4.58	
26 01 50 51-0051 EA 8', 75 Watt, T12 Fluorescent Lamp	23.52	
<i>For Multiple Lamps In Fixture, Deduct</i>	-4.58	
26 01 50 51-0052 EA 8', 95 Watt, Instant Start T12 Fluorescent Lamp	38.12	
26 01 50 51-0053 EA 6" Diameter, 20 Watt, Circular T9 Fluorescent Lamp	22.26	
<i>For Multiple Lamps In Fixture, Deduct</i>	-4.07	
26 01 50 51-0054 EA 8" Diameter, 22 Watt, Circular T9 Fluorescent Lamp	18.73	
<i>For Multiple Lamps In Fixture, Deduct</i>	-4.07	
26 01 50 51-0055 EA 12" Diameter, 32 Watt, Circular T9 Fluorescent Lamp	18.19	
<i>For Multiple Lamps In Fixture, Deduct</i>	-4.07	
26 01 50 51-0056 EA 16" Diameter, 40 Watt, Circular T9 Fluorescent Lamp	19.88	
<i>For Multiple Lamps In Fixture, Deduct</i>	-4.07	
26 01 50 51-0057 EA 32 Watt, Rapid Start, U-Shaped T8 Fluorescent Lamp	31.90	
<i>For Multiple Lamps In Fixture, Deduct</i>	-5.10	
26 01 50 51-0058 EA 40 Watt, Rapid Start, U-Shaped T12 Fluorescent Lamp	30.86	
<i>For Multiple Lamps In Fixture, Deduct</i>	-5.10	
26 01 50 51-0059 EA 6", 4 Watt, T5 Fluorescent Lamp	16.81	
<i>For Multiple Lamps In Fixture, Deduct</i>	-4.07	
26 01 50 51-0060 EA 9", 6 Watt, T5 Fluorescent Lamp	16.57	
<i>For Multiple Lamps In Fixture, Deduct</i>	-4.07	

26 Electrical**26 01 Operation and Maintenance of Electrical Systems****26 01 50 Operation and Maintenance of Lighting**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 51-0061 EA 12", 8 Watt, T5 Fluorescent Lamp .....17.03 <i>For Multiple Lamps In Fixture, Deduct</i> .....-4.07		
26 01 50 51-0062 EA 21", 13 Watt, T5 Fluorescent Lamp .....17.70 <i>For Multiple Lamps In Fixture, Deduct</i> .....-4.07		
26 01 50 51-0063 EA 24", 14 Watt, T5 Fluorescent Lamp .....20.03 <i>For Multiple Lamps In Fixture, Deduct</i> .....-4.07		
26 01 50 51-0064 EA 34", 21 Watt, T5 Fluorescent Lamp .....21.88 <i>For Multiple Lamps In Fixture, Deduct</i> .....-4.58		
26 01 50 51-0065 EA 46", 28 Watt, T5 Fluorescent Lamp .....21.28 <i>For Multiple Lamps In Fixture, Deduct</i> .....-4.58		
26 01 50 51-0066 EA 46", 54 Watt, T5HO Fluorescent Lamp .....23.03 <i>For Multiple Lamps In Fixture, Deduct</i> .....-4.58		
26 01 50 51-0067 EA 46", 54 Watt T5 Fluorescent Lamp .....19.62		
26 01 50 51-0068 EA 5-13 Watt, 2-Pin Compact Fluorescent Lamp .....12.90 <i>For Multiple Lamps In Fixture, Deduct</i> .....-2.55		
26 01 50 51-0069 EA 9-26 Watt, 4-Pin Compact Fluorescent Lamp .....14.11 <i>For Multiple Lamps In Fixture, Deduct</i> .....-2.55		
26 01 50 51-0070 EA 27-55 Watt, 4-Pin Compact Fluorescent Lamp .....27.44 <i>For Multiple Lamps In Fixture, Deduct</i> .....-2.55		
26 01 50 51-0071 EA Compact Fluorescent 13 Watt, 4-Pin Lamps CF13DD/E/827, Dulux .....36.22		
26 01 50 51-0072 EA Compact Fluorescent 18 Watt, 4-Pin Lamps CF18DD/E/827, Dulux .....36.22		
26 01 50 51-0073 EA 32 Watt 2D (DoubleD) Fluorescent Lamp, 4-Pin .....65.29		
26 01 50 51-0074 EA 26 Watt (1,600 Lumens) 4-pin Quad Tube PL Lamp .....24.62		
26 01 50 51-0075 EA <9 Watt, Screw-In, Spiral Compact Fluorescent Lamps .....13.32		
26 01 50 51-0076 EA 9 To 27 Watt, Screw-In, Spiral Compact Fluorescent Lamps .....11.70		
26 01 50 51-0077 EA 29 To 32 Watt, Screw-In, Spiral Compact Fluorescent Lamps .....12.20		
26 01 50 51-0078 EA 33 To 42 Watt, Screw-In, Spiral Compact Fluorescent Lamps .....45.68		
26 01 50 51-0079 EA 43 To 65 Watt, Screw-In, Spiral Compact Fluorescent Lamps .....49.70		
26 01 50 51-0080 EA 85 Watt, Screw-In, Spiral Compact Fluorescent Lamps .....93.32		
26 01 50 51-0081 EA 105 Watt, Screw-In, Spiral Compact Fluorescent Lamps .....111.49		
26 01 50 51-0082 EA 200 Watt, Screw-In, Spiral Compact Fluorescent Lamps .....115.19		
26 01 50 51-0083 EA 11 Watt, Screw-In, Compact Fluorescent Reflector Lamps .....43.00		
26 01 50 51-0084 EA 15 Watt, Screw-In, Compact Fluorescent Reflector Lamps .....44.78		
26 01 50 51-0085 EA 20 To 28 Watt, Screw-In, Compact Fluorescent Reflector Lamps .....51.44		
26 01 50 51-0086 Metal Halide Lamps (26 01 50 51-0001)		
26 01 50 51-0087 EA 50 Watt, Pulse Start Metal Halide Lamp .....55.06		
26 01 50 51-0088 EA 70 Watt, Pulse Start Metal Halide Lamp .....52.90		
26 01 50 51-0089 EA 100 Watt, Pulse Start Metal Halide Lamp .....59.72		
26 01 50 51-0090 EA 150 Watt, Pulse Start Metal Halide Lamp .....58.17		
26 01 50 51-0091 EA 175 Watt, Pulse Start Metal Halide Lamp .....57.72		
26 01 50 51-0092 EA 250 Watt, Pulse Start Metal Halide Lamp .....58.03		
26 01 50 51-0093 EA 400 Watt, Pulse Start Metal Halide Lamp .....68.89		
26 01 50 51-0094 EA 1,000 Watt, Pulse Start Metal Halide Lamp .....79.30		
26 01 50 51-0095 EA 1,500 Watt, Pulse Start Metal Halide Lamp .....78.87		
26 01 50 51-0096 High Pressure Sodium Lamps (26 01 50 51-0001)		
26 01 50 51-0097 EA 35 Watt, High Pressure Sodium Lamp .....46.28 <i>For Enclosed And Gasket Light Fixtures, Add</i> .....3.92		
26 01 50 51-0098 EA 50 Watt, High Pressure Sodium Lamp .....46.28 <i>For Enclosed And Gasket Light Fixtures, Add</i> .....3.92		
26 01 50 51-0099 EA 70 Watt, High Pressure Sodium Lamp .....47.20 <i>For Enclosed And Gasket Light Fixtures, Add</i> .....3.92		
26 01 50 51-0100 EA 100 Watt, High Pressure Sodium Lamp .....48.97 <i>For Enclosed And Gasket Light Fixtures, Add</i> .....3.92		
26 01 50 51-0101 EA 150 Watt, High Pressure Sodium Lamp .....47.20 <i>For Enclosed And Gasket Light Fixtures, Add</i> .....3.92		
26 01 50 51-0102 EA 250 Watt, High Pressure Sodium Lamp .....47.20 <i>For Enclosed And Gasket Light Fixtures, Add</i> .....3.92		
26 01 50 51-0103 EA 400 Watt, High Pressure Sodium Lamp .....44.57 <i>For Enclosed And Gasket Light Fixtures, Add</i> .....3.92		
26 01 50 51-0104 EA 1,000 Watt, High Pressure Sodium Lamp .....97.82		
26 01 50 51-0105 Low Pressure Sodium Lamps (26 01 50 51-0001)		
26 01 50 51-0106 EA 35 Watt, Low Pressure Sodium Lamp .....110.24		
26 01 50 51-0107 EA 55 Watt, Low Pressure Sodium Lamp .....122.46		
26 01 50 51-0108 EA 70 Watt, Low Pressure Sodium Lamp .....125.21		
26 01 50 51-0109 EA 90 Watt, Low Pressure Sodium Lamp .....127.96		
26 01 50 51-0110 EA 135 Watt, Low Pressure Sodium Lamp .....138.97		
26 01 50 51-0111 EA 180 Watt, Low Pressure Sodium Lamp .....188.49		
26 01 50 51-0112 LED Lamps (26 01 50 51-0001)		
26 01 50 51-0113 LED Lamps, Candelabra Base, CA10 (26 01 50 51-0112)		
26 01 50 51-0114 EA 3 Watt (25 Watt Incandescent Equivalent), Candelabra Base, CA10, Dimmable LED Lamp (Energy Star) .....18.06		
26 01 50 51-0115 LED Lamps, Medium Base, A19 Or A21 (26 01 50 51-0112)		



				DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 51-0116	EA			6 Watt (40 Watt Incandescent Equivalent), Medium Base, A19, Dimmable LED Lamp (Energy Star)	23.32	
26 01 50 51-0117	EA			11 Watt (60 Watt Incandescent Equivalent), Medium Base, A19, Dimmable LED Lamp (Energy Star)	23.32	
26 01 50 51-0118	EA			14 Watt (75 Watt Incandescent Equivalent), Medium Base, A19, Dimmable LED Lamp (Energy Star)	37.44	
26 01 50 51-0119	EA			17 Watt (75 Watt Incandescent Equivalent), Medium Base, A21, Dimmable LED Lamp (Energy Star)	26.89	
26 01 50 51-0120	EA			18 Watt (100 Watt Incandescent Equivalent), Medium Base, A21, Dimmable LED Lamp (Energy Star)	46.26	
26 01 50 51-0121 LED Lamps, Medium Base, BR30 Or BR40 <small>(26 01 50 51-0112)</small>						
26 01 50 51-0122	EA			9.5 Watt (65 Watt Incandescent Equivalent), Medium Base, BR30, Dimmable LED Lamp (Energy Star)	31.85	
26 01 50 51-0123	EA			14 Watt (85 Watt Incandescent Equivalent), Medium Base, BR30, Dimmable LED Lamp (Energy Star)	28.87	
26 01 50 51-0124	EA			11 Watt (65 Watt Incandescent Equivalent), Medium Base, BR40, Dimmable LED Lamp (Energy Star)	36.79	
26 01 50 51-0125	EA			14.5 Watt (75 Watt Incandescent Equivalent), Medium Base, BR40, Dimmable LED Lamp (Energy Star)	31.52	
26 01 50 51-0126	EA			14 Watt (85 Watt Incandescent Equivalent), Medium Base, BR40, Dimmable LED Lamp (Energy Star)	40.32	
26 01 50 51-0127	EA			18 Watt (90 Watt Incandescent Equivalent), Medium Base, BR40, Dimmable LED Lamp (Energy Star)	31.52	
26 01 50 51-0128 LED Lamps, Medium Base, PAR <small>(26 01 50 51-0112)</small>						
26 01 50 51-0129	EA			7 Watt (45 Watt Halogen Equivalent), Medium Base, PAR20, Dimmable LED Lamp (Energy Star)	34.67	
26 01 50 51-0130	EA			12 Watt (60 Watt Halogen Equivalent), Medium Base, Short Neck Par30, Dimmable LED Lamp (Energy Star)	45.63	
26 01 50 51-0131	EA			16.3 Watt (65 Watt Halogen Equivalent), Medium Base, Short Neck PAR30, Dimmable LED Lamp (Energy Star)	45.63	
26 01 50 51-0132	EA			15.6 Watt (70 Watt Halogen Equivalent), Medium Base, Short Neck PAR30, Dimmable LED Lamp (Energy Star)	43.87	
26 01 50 51-0133	EA			12 Watt (50 Watt Halogen Equivalent), Medium Base, Short Neck PAR30, Dimmable LED Lamp (Energy Star)	42.10	
26 01 50 51-0134	EA			15 Watt (75 Watt Halogen Equivalent), Medium Base, Long Neck PAR30, Dimmable LED Lamp (Energy Star)	42.10	
26 01 50 51-0135	EA			18 Watt (90 Watt Halogen Equivalent), Medium Base, Long Neck PAR30, Dimmable LED Lamp (Energy Star)	77.74	
26 01 50 51-0136	EA			15 Watt (75 Watt Halogen Equivalent), Medium Base, PAR38, Dimmable LED Lamp (Energy Star)	45.63	
26 01 50 51-0137	EA			18 Watt (90 Watt Halogen Equivalent), Medium Base, PAR38, Dimmable LED Lamp (Energy Star)	43.87	
26 01 50 51-0138	EA			19 Watt (120 Watt Halogen Equivalent), Medium Base, Par38, Dimmable LED Lamp (Energy Star)	45.63	
26 01 50 51-0139	EA			24 Watt (120 Watt Halogen Equivalent), Medium Base, PAR38, Dimmable LED Lamp (Energy Star)	45.63	
26 01 50 51-0140 LED Lamps, GU Base, MR16 <small>(26 01 50 51-0112)</small>						
26 01 50 51-0141	EA			4 Watt (20 Watt Halogen Equivalent), GU5.3 Base, MR16, LED Lamp (Energy Star)	25.34	
26 01 50 51-0142	EA			6 Watt (30 Watt Halogen Equivalent), GU10 Base, MR16, Dimmable LED Lamp (Energy Star)	31.85	
26 01 50 51-0143	EA			8 Watt (50 Watt Halogen Equivalent), GU5.3 Base, MR16, Dimmable LED Lamp (Energy Star)	34.67	
26 01 50 51-0144 LED Lamps, PL Series <small>(26 01 50 51-0112)</small>						
26 01 50 51-0145	EA			3.5 Watt, 2-Pin CFL G23 Base , Hybrid Lamp (GreenCreative PLS 3.5 HYB G23)	17.58	
26 01 50 51-0146	EA			26 Watt, 2700K CCT, PL EDGE DiRect Series (Green Creative 9.5PLH/827/DIR)	23.84	
26 01 50 51-0147	EA			26 Watt, 3000K CCT, PL EDGE DiRect Series (Green Creative 9.5PLH/830/DIR)	20.99	
26 01 50 51-0148	EA			26 Watt, 3500K CCT, PL EDGE DiRect Series (Green Creative 9.5PLH/835/DIR)	22.77	
26 01 50 51-0149	EA			26 Watt, 4000K CCT, PL EDGE DiRect Series (Green Creative 9.5PLH/840/DIR)	22.77	
26 01 50 51-0150	EA			26 Watt, 3000K CCT, High CRI, PL EDGE DiRect Series (Green Creative 10.5PLH/930/DIR)	25.98	
26 01 50 51-0151	EA			13-18 Watt, 2700K CCT, PL EDGE DiRect Series (Green Creative 5.5PLH/827/DIR)	22.77	
26 01 50 51-0152	EA			13-18 Watt, 3000K CCT, PL EDGE DiRect Series (Green Creative 5.5PLH/830/DIR)	22.77	
26 01 50 51-0153	EA			13-18 Watt, 3500K CCT, PL EDGE DiRect Series (Green Creative 5.5PLH/835/DIR)	22.77	
26 01 50 51-0154	EA			13-18 Watt, 4000K CCT, PL EDGE DiRect Series (Green Creative 5.5PLH/840/DIR)	22.77	
26 01 50 51-0155	EA			26 Watt, 2700K CCT, PL EDGE DiRect Series (Green Creative 10PLV/827/DIR)	24.91	
26 01 50 51-0156	EA			26 Watt, 3000K CCT, PL EDGE DiRect Series (Green Creative 10PLV/830/DIR)	24.91	
26 01 50 51-0157	EA			26 Watt, 3500K CCT, PL EDGE DiRect Series (Green Creative 10PLV/835/DIR)	24.91	
26 01 50 51-0158	EA			26 Watt, 4000K CCT, PL EDGE DiRect Series (Green Creative 10PLV/840/DIR)	24.91	
26 01 50 51-0159	EA			26 Watt, 3000K CCT, High CRI, PL EDGE DiRect Series (Green Creative 11PLV/930/DIR)	23.84	
26 01 50 51-0160	EA			13-18 Watt, 2700K CCT, PL EDGE DiRect Series (Green Creative 6.5PLV/827/DIR)	23.84	
26 01 50 51-0161	EA			13-18 Watt, 3000K CCT, PL EDGE DiRect Series (Green Creative 6.5PLV/830/DIR)	23.84	
26 01 50 51-0162	EA			13-18 Watt, 3500K CCT, PL EDGE DiRect Series (Green Creative 6.5PLV/835/DIR)	24.56	
26 01 50 51-0163	EA			13-18 Watt, 4000K CCT, PL EDGE DiRect Series (Green Creative 6.5PLV/840/DIR)	24.56	
26 01 50 51-0164	EA			26 Watt, 2700K CCT, PL EDGE BYPass Series (Green Creative 10.5PLH/827/BYP)	24.71	
26 01 50 51-0165	EA			26 Watt, 3000K CCT, PL EDGE BYPass Series (Green Creative 10.5PLH/830/BYP)	24.71	
26 01 50 51-0166	EA			26 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 10.5PLH/835/BYP)	24.71	
26 01 50 51-0167	EA			26 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 10.5PLH/840/BYP)	24.71	
26 01 50 51-0168	EA			13-18 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 6PLH/835/BYP)	25.27	
26 01 50 51-0169	EA			13-18 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 6PLH/840/BYP)	25.27	
26 01 50 51-0170	EA			13 Watt, 3000K CCT, PL EDGE BYPass Series (Green Creative 6PLH/830/BYP/E26)	25.27	
26 01 50 51-0171	EA			13 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 6PLH/835/BYP/E26)	25.27	
26 01 50 51-0172	EA			13 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 6PLH/840/BYP/E26)	25.27	
26 01 50 51-0173	EA			13 Watt, 3000K CCT, PL EDGE BYPass Series (Green Creative 6PLH/830/BYP/GU24)	25.27	
26 01 50 51-0174	EA			13 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 6PLH/835/BYP/GU24)	25.27	
26 01 50 51-0175	EA			13 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 6PLH/840/BYP/GU24)	25.27	
26 01 50 51-0176	EA			26 Watt, 2700K CCT, PL EDGE BYPass Series (Green Creative 11.5PLV/827/BYP)	30.85	
26 01 50 51-0177	EA			26 Watt, 3000K CCT, PL EDGE BYPass Series (Green Creative 11.5PLV/830/BYP)	30.85	
26 01 50 51-0178	EA			26 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 11.5PLV/835/BYP)	30.85	
26 01 50 51-0179	EA			26 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 11.5PLV/840/BYP)	29.56	
26 01 50 51-0180	EA			13-18 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 7PLV/835/BYP)	29.56	
26 01 50 51-0181	EA			13-18 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 7PLV/840/BYP)	29.56	
26 01 50 51-0182	EA			4 Pin, 6 Watt, 560 Lumens 4000K CCT, Horizontal Mount LED PL Lamp (Green Creative 57898)	28.13	
26 01 50 51-0183 HID LED Lamps, Medium Base E26 <small>(26 01 50 51-0112)</small>						
26 01 50 51-0184	EA			27 Watt, 4000K CCT, Medium Base E26, LED Lamp (Green Creative 27HID/840/277V/E26)	54.19	
26 01 50 51-0185	EA			27 Watt, 5000K CCT, Medium Base E26, LED Lamp (Green Creative 27HID/850/277V/E26)	54.19	

26 Electrical
26 01 Operation and Maintenance of Electrical Systems
26 01 50 Operation and Maintenance of Lighting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 51-0186 EA 45 Watt, 4000K CCT, Medium Base E26, LED Lamp (Green Creative 45HID/840/277V/E26)	67.40	
26 01 50 51-0187 EA 45 Watt, 5000K CCT, Medium Base E26, LED Lamp (Green Creative 45HID/850/277V/E26)	67.40	
26 01 50 51-0188 EA 10 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED10-3026)	51.77	
26 01 50 51-0189 EA 10 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED10-4026)	51.77	
26 01 50 51-0190 EA 10 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED10-5026)	51.77	
26 01 50 51-0191 EA 10 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED10-6026)	51.77	
26 01 50 51-0192 EA 15 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED15-3026)	53.20	
26 01 50 51-0193 EA 15 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED15-4026)	53.20	
26 01 50 51-0194 EA 15 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED15-5026)	53.20	
26 01 50 51-0195 EA 15 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED15-6026)	53.20	
26 01 50 51-0196 EA 20 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED20-3026)	58.91	
26 01 50 51-0197 EA 20 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED20-4026)	58.91	
26 01 50 51-0198 EA 20 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED20-5026)	58.91	
26 01 50 51-0199 EA 20 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED20-6026)	58.91	
26 01 50 51-0200 EA 25 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED25-3026)	66.05	
26 01 50 51-0201 EA 25 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED25-4026)	66.05	
26 01 50 51-0202 EA 25 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED25-5026)	66.05	
26 01 50 51-0203 EA 25 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED25-6026)	66.05	
26 01 50 51-0204 EA 30 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED30-3026)	81.76	
26 01 50 51-0205 EA 30 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED30-4026)	81.76	
26 01 50 51-0206 EA 30 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED30-5026)	81.76	
26 01 50 51-0207 EA 30 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED30-6026)	81.76	
26 01 50 51-0208 EA 40 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED40-3026)	95.33	
26 01 50 51-0209 EA 40 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED40-4026)	95.33	
26 01 50 51-0210 EA 40 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED40-5026)	95.33	
26 01 50 51-0211 EA 40 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED40-6026)	95.33	
26 01 50 51-0212 EA 60 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED60-3026)	104.61	
26 01 50 51-0213 EA 60 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED60-4026)	104.61	
26 01 50 51-0214 EA 60 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED60-5026)	104.61	
26 01 50 51-0215 EA 60 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED60-6026)	104.61	
26 01 50 51-0216 EA 80 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED80-3026)	138.17	
26 01 50 51-0217 EA 80 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED80-4026)	138.17	
26 01 50 51-0218 EA 80 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED80-5026)	138.17	
26 01 50 51-0219 EA 80 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED80-6026)	138.17	
26 01 50 51-0220 EA 100 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED100-3026)	142.45	
26 01 50 51-0221 EA 100 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED100-4026)	142.45	
26 01 50 51-0222 EA 100 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED100-5026)	142.45	
26 01 50 51-0223 EA 100 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED100-6026)	142.45	
26 01 50 51-0224 EA 120 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED120-3026)	167.44	
26 01 50 51-0225 EA 120 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED120-4026)	167.44	
26 01 50 51-0226 EA 120 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED120-5026)	167.44	
26 01 50 51-0227 EA 120 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED120-6026)	167.44	
26 01 50 51-0228 EA 150 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED150-3026)	197.43	
26 01 50 51-0229 EA 150 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED150-4026)	197.43	
26 01 50 51-0230 EA 150 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED150-5026)	197.43	
26 01 50 51-0231 EA 150 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED150-6026)	197.43	
26 01 50 51-0232 EA 20 Watt, 4000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED20WPT40KMED-G6)	65.95	
26 01 50 51-0233 EA 20 Watt, 5000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED20WPT50KMED-G6)	70.94	
26 01 50 51-0234 EA 27 Watt, 4000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED27WPT40KMED-G5)	70.94	
26 01 50 51-0235 EA 27 Watt, 5000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED27WPT50KMED-G5)	65.95	
26 01 50 51-0236 EA 36 Watt, 4000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED36WPT40KMED-G5)	81.65	
26 01 50 51-0237 EA 36 Watt, 5000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED36WPT50KMED-G5)	75.23	
26 01 50 51-0238 EA 45 Watt, 4000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED45WPT40KMED-G5)	89.51	
26 01 50 51-0239 EA 45 Watt, 5000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED45WPT50KMED-G5)	88.67	
26 01 50 51-0240 EA 54 Watt, 4000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED54WPT40KMED-G5)	90.58	
26 01 50 51-0241 EA 54 Watt, 5000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED54WPT50KMED-G5)	90.58	
26 01 50 51-0242 EA 27 Watt, 4000K CCT, Medium Base E26, LED Lamp (EIKO industries LED27WPT40KMED-G7)	56.69	
26 01 50 51-0243 EA 27 Watt, 5000K CCT, Medium Base E26, LED Lamp (EIKO industries LED27WPT50KMED-G7)	56.69	
26 01 50 51-0244 EA 36 Watt, 4000K CCT, Medium Base E26, LED Lamp (EIKO industries LED36WPT40KMED-G7)	63.29	
26 01 50 51-0245 EA 36 Watt, 5000K CCT, Medium Base E26, LED Lamp (EIKO industries LED36WPT50KMED-G7)	63.29	
26 01 50 51-0246 EA 45 Watt, 4000K CCT, Medium Base E26, LED Lamp (EIKO industries LED45WPT40KMED-G7)	67.68	
26 01 50 51-0247 EA 45 Watt, 5000K CCT, Medium Base E26, LED Lamp (EIKO industries LED45WPT50KMED-G7)	67.68	
26 01 50 51-0248 EA 54 Watt, 4000K CCT, Medium Base E26, LED Lamp (EIKO industries LED54WPT40KMED-G7)	74.28	
26 01 50 51-0249 EA 54 Watt, 5000K CCT, Medium Base E26, LED Lamp (EIKO industries LED54WPT50KMED-G7)	74.28	
26 01 50 51-0250 EA 20 Watt, 5500K CCT, Medium Base E26, LED Lamp (Olympic CL-20W8-55K-E26)	74.62	
26 01 50 51-0251 EA 30 Watt, 5500K CCT, Medium Base E26, LED Lamp (Olympic CL-30W8-55K-E26)	80.48	
26 01 50 51-0252 EA 40 Watt, 5500K CCT, Medium Base E26, LED Lamp (Olympic CL-40W8-55K-E26)	98.97	
26 01 50 51-0253 EA 50 Watt, 5500K CCT, Medium Base E26, LED Lamp (Olympic CL-50W8-55K-E26)	108.54	
26 01 50 51-0254 EA 10 Watt, 5500K CCT, Medium Base E26, Compact LED Lamp (Olympic CCL-10W12-55K-E26)	45.49	
26 01 50 51-0255 EA 15 Watt, 5500K CCT, Medium Base E26, Compact LED Lamp (Olympic CCL-15W12-55K-E26)	50.63	
26 01 50 51-0256 EA 20 Watt, 5500K CCT, Medium Base E26, Compact LED Lamp (Olympic CCL-20W12-55K-E26)	53.20	
26 01 50 51-0257 EA 25 Watt, 5500K CCT, Medium Base E26, Compact LED Lamp (Olympic CCL-25W12-55K-E26)	57.99	
26 01 50 51-0258 EA 15 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Nepton LED-N148015-UNV)	68.78	
26 01 50 51-0259 EA 20 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Nepton LED-N148020-UNV)	79.77	
26 01 50 51-0260 EA 25 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Nepton LED-N148025-UNV)	107.23	
26 01 50 51-0261 EA 30 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Nepton LED-N148030-UNV)	112.72	
26 01 50 51-0262 EA 35 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Nepton LED-N148035-UNV)	121.51	
26 01 50 51-0263 EA 40 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Nepton LED-N148040-UNV)	127.00	
26 01 50 51-0264 EA 60 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Nepton LED-N148060-UNV)	180.83	
26 01 50 51-0265 EA 20 Watt, 5000K CCT, 120-277 Volt, E26 (Medium) Base, LED Retrofit Omni-Directional Lamp (HYLITE HL-IOD-20W-E26-50K)	69.16	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
--	-------	-----	-----	-------------	------------------------	----------------------

26 01 50 51-0266

HID LED Lamps, Mogul Base E39 Or EX39 (26 01 50 51-0112)

26 01 50 51-0267	EA	120 Watt, 2700K CCT, Mogul Base EX39, HID LED Lamp (Green Creative 120HID/827/277V/EX39).....	174.68	
26 01 50 51-0268	EA	120 Watt, 5000K CCT, Mogul Base EX39, HID LED Lamp (Green Creative 120HID/850/277V/EX39).....	174.68	
26 01 50 51-0269	EA	120 Watt, 5700 CCT, Mogul Base EX39, HID LED Lamp (Green Creative 120HID/857/277V/EX39).....	174.68	
26 01 50 51-0270	EA	27 Watt, 3000K CCT, Mogul Base E39, LED Lamp (Green Creative 27HID/830/277V/EX39).....	54.19	
26 01 50 51-0271	EA	27 Watt, 4000K CCT, Mogul Base E39, LED Lamp (Green Creative 27HID/840/277V/EX39/R).....	54.19	
26 01 50 51-0272	EA	27 Watt, 5000K CCT, Mogul Base E39, LED Lamp (Green Creative 27HID/850/277V/EX39).....	54.19	
26 01 50 51-0273	EA	45 Watt, 3000K CCT, Mogul Base E39, LED Lamp (Green Creative 45HID/830/277V/EX39).....	67.40	
26 01 50 51-0274	EA	45 Watt, 4000K CCT, Mogul Base E39, LED Lamp (Green Creative 45HID/840/277V/EX39/R).....	67.40	
26 01 50 51-0275	EA	45 Watt, 5000K CCT, Mogul Base E39, LED Lamp (Green Creative 45HID/850/277V/EX39).....	67.40	
26 01 50 51-0276	EA	80 Watt, 5000K CCT, Mogul Base E39, LED Lamp (Green Creative 80HID/850/277V/EX39).....	120.95	
26 01 50 51-0277	EA	80 Watt, 3000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED80-3039).....	138.17	
26 01 50 51-0278	EA	80 Watt, 4000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED80-4039).....	138.17	
26 01 50 51-0279	EA	80 Watt, 5000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED80-5039).....	138.17	
26 01 50 51-0280	EA	80 Watt, 6000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED80-6039).....	138.17	
26 01 50 51-0281	EA	100 Watt, 3000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED100-3039).....	142.45	
26 01 50 51-0282	EA	100 Watt, 4000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED100-4039).....	142.45	
26 01 50 51-0283	EA	100 Watt, 5000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED100-5039).....	142.45	
26 01 50 51-0284	EA	100 Watt, 6000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED100-6039).....	142.45	
26 01 50 51-0285	EA	120 Watt, 3000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED120-3039).....	167.44	
26 01 50 51-0286	EA	120 Watt, 4000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED120-4039).....	167.44	
26 01 50 51-0287	EA	120 Watt, 5000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED120-5039).....	167.44	
26 01 50 51-0288	EA	120 Watt, 6000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED120-6039).....	167.44	
26 01 50 51-0289	EA	150 Watt, 3000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED150-3039).....	197.43	
26 01 50 51-0290	EA	150 Watt, 4000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED150-4039).....	197.43	
26 01 50 51-0291	EA	150 Watt, 5000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED150-5039).....	197.43	
26 01 50 51-0292	EA	150 Watt, 6000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED150-6039).....	197.43	
26 01 50 51-0293	EA	27 Watt, 4000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED27WPT40KMOG-G5).....	70.94	
26 01 50 51-0294	EA	27 Watt, 5000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED27WPT50KMOG-G5).....	70.94	
26 01 50 51-0295	EA	36 Watt, 4000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED36WPT40KMOG-G5).....	81.65	
26 01 50 51-0296	EA	36 Watt, 5000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED36WPT50KMOG-G5).....	80.67	
26 01 50 51-0297	EA	45 Watt, 4000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED45WPT40KMOG-G5).....	89.51	
26 01 50 51-0298	EA	45 Watt, 5000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED45WPT50KMOG-G5).....	88.67	
26 01 50 51-0299	EA	54 Watt, 4000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED54WPT40KMOG-G5).....	90.58	
26 01 50 51-0300	EA	54 Watt, 5000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED54WPT50KMOG-G5).....	88.09	
26 01 50 51-0301	EA	100 Watt, 4000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED100WPT40KMOG-G5).....	185.18	
26 01 50 51-0302	EA	20 Watt, 4000K CCT, Mogul Base E39, Horizontal LED Lamp (EiKO industries LED20WPT180/40KMOG-G7).....	70.92	
26 01 50 51-0303	EA	20 Watt, 5000K CCT, Mogul Base E39, Horizontal LED Lamp (EiKO industries LED20WPT180/50KMOG-G7).....	70.92	
26 01 50 51-0304	EA	30 Watt, 4000K CCT, Mogul Base E39, Horizontal LED Lamp (EiKO industries LED30WPT180/40KMOG-G7).....	79.80	
26 01 50 51-0305	EA	30 Watt, 5000K CCT, Mogul Base E39, Horizontal LED Lamp (EiKO industries LED30WPT180/50KMOG-G7).....	79.80	
26 01 50 51-0306	EA	40 Watt, 4000K CCT, Mogul Base E39, Horizontal LED Lamp (EiKO industries LED40WPT180/40KMOG-G7).....	85.15	
26 01 50 51-0307	EA	40 Watt, 5000K CCT, Mogul Base E39, Horizontal LED Lamp (EiKO industries LED40WPT180/50KMOG-G7).....	85.15	
26 01 50 51-0308	EA	27 Watt, 4000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED27WPT40KMOG-G7).....	56.60	
26 01 50 51-0309	EA	27 Watt, 5000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED27WPT50KMOG-G7).....	56.60	
26 01 50 51-0310	EA	36 Watt, 4000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED36WPT40KMOG-G7).....	63.29	
26 01 50 51-0311	EA	36 Watt, 5000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED36WPT50KMOG-G7).....	63.29	
26 01 50 51-0312	EA	45 Watt, 4000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED45WPT40KMOG-G7).....	67.68	
26 01 50 51-0313	EA	45 Watt, 5000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED45WPT50KMOG-G7).....	67.68	
26 01 50 51-0314	EA	54 Watt, 4000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED54WPT40KMOG-G7).....	74.28	
26 01 50 51-0315	EA	54 Watt, 5000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED54WPT50KMOG-G7).....	74.28	
26 01 50 51-0316	EA	65 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-65W8-55K-E39).....	129.88	
26 01 50 51-0317	EA	80 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-80W8-55K-E39).....	149.45	
26 01 50 51-0318	EA	100 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-100W8-55K-E39).....	177.29	
26 01 50 51-0319	EA	120 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-120W8-55K-E39).....	341.27	
26 01 50 51-0320	EA	150 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-150W8-55K-E39).....	322.54	
26 01 50 51-0321	EA	200 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-200W8-55K-E39).....	341.27	
26 01 50 51-0322	EA	250 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-250W8-55K-E39).....	342.73	
26 01 50 51-0323	EA	24 Watt, 3000K CCT, Mogul Base E39, LED Lamp (Light Efficient Design LED-8029M30-A).....	56.27	
26 01 50 51-0324	EA	24 Watt, 4000K CCT, Mogul Base E39, LED Lamp (Light Efficient Design LED-8029M40-A).....	56.27	
26 01 50 51-0325	EA	24 Watt, 5700K CCT, Mogul Base E39, LED Lamp (Light Efficient Design LED-8029M57-A).....	56.27	
26 01 50 51-0326	EA	100 Watt, Mogul Base E39, LED Area Lamp (MaxLite AR100LED50).....	160.23	
26 01 50 51-0327	EA	115 Watt, 4000K CCT, Mogul Base EX39, HID LED Lamp (Keystone KT-LED115HID-V-EX39-840-D).....	411.36	
26 01 50 51-0328	EA	40 Watt, 120-277 Volt, 5000K CCT, E39 Base, LED Arc-Cob Lamp (HYLITE HL-AC-40W-E39-50K).....	173.07	
26 01 50 51-0329	EA	100 Watt, 480 Volt, 5000K CCT, E39 Base, LED Omni-Cob Lamp (HYLITE HL-OC-100W-E39-50K).....	202.77	
26 01 50 51-0330	EA	45 Watt, 120-277 Volt, 5000K CCT, E39 Base, LED Omni-Flob Lamp (HYLITE HL-OC-45W-E39-50K).....	92.91	
26 01 50 51-0331	EA	40 Watt, 5680 Lumens, Mogul Base E39, LED Directional Flood Lamp (HYLITE HL-IDL-40W-E39-50K).....	289.24	

26 01 50 51-0332

LED Lamps, 2G11 Base (26 01 50 51-0112)

26 01 50 51-0333	EA	19 Watt, 1550 Lumens, 3500K CCT, 2G11 Base, Dimmable LED Lamp (Green Creative 14.5PLL/835/DIR).....	49.74	
------------------	----	---	-------	--

26 01 50 51-0334

LED Lamps, GX23 Or G23 Base (26 01 50 51-0112)

26 01 50 51-0335	EA	5 Watt, 580 Lumens, 2 Pin GX23 Base, Dimmable LED Lamp (Lunera HN-H-GX23-U-5W-840-G4).....	25.45	
------------------	----	--	-------	--

26 01 50 51-0336

LED Lamps, G24 Base (26 01 50 51-0112)

26 01 50 51-0337	EA	5.5 Watt, 500 Lumens, G24 Base, LED Lamp (Green Creative 5.5PLH/835/DIR/R).....	32.49	
------------------	----	---	-------	--

26 Electrical**26 01 Operation and Maintenance of Electrical Systems****26 01 50 Operation and Maintenance of Lighting**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

26 01 50 51-0338 LED Tubes (Fluorescent Lamp Replacement) <small>(26 01 50 51-0112)</small>			
26 01 50 51-0339	EA 2', 1,250 Lumens, 4000K CCT, LED Tube (T8 Fluorescent Lamp Replacement) (Remphos RPT-TOTALTUBEG2-T8-24IN-4000K).....	44.49	
	<i>For Multiple Lamps In Fixture, Deduct</i>	-4.07	
26 01 50 51-0340	EA 2', 1,900 Lumens, 4000K CCT, LED Tube (T8 Fluorescent Lamp Replacement) (Remphos RPT-TOTALTUBEG2-T8-24INU-4000K).....	57.15	
	<i>For Multiple Lamps In Fixture, Deduct</i>	-4.07	
26 01 50 51-0341	EA 3', 1,900 Lumens, 4000K CCT, LED Tube (T8 Fluorescent Lamp Replacement) (Remphos RPT-TOTALTUBEG2-T8-36IN-4000K).....	47.91	
	<i>For Multiple Lamps In Fixture, Deduct</i>	-4.33	
26 01 50 51-0342	EA 4', 1,900 Lumens, 4000K CCT, LED Tube (T8 Fluorescent Lamp Replacement) (Remphos RPT-TOTALTUBEG2-T8-48IN-4000K).....	52.37	
	<i>For Multiple Lamps In Fixture, Deduct</i>	-4.58	
26 01 50 51-0343	EA 4', 2,200 Lumens, 4000K CCT, LED Tube (T8 Fluorescent Lamp Replacement) (Remphos RPT-TOTALTUBEG2HO-T8-48IN-4000K).....	57.11	
	<i>For Multiple Lamps In Fixture, Deduct</i>	-4.58	
26 01 50 51-0344	EA 4', 2,539 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Carson Technology CT-D02018TBN).....	36.94	
	<i>For Multiple Lamps In Fixture, Deduct</i>	-4.58	
26 01 50 51-0345	EA 2', 1,348 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Carson Technology CT-D02010TBN).....	35.39	
	<i>For Multiple Lamps In Fixture, Deduct</i>	-4.07	
26 01 50 51-0346	EA 2', 1,100 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Sylvania LED9T8/L24/FG/835/BF).....	32.45	
	<i>For Multiple Lamps In Fixture, Deduct</i>	-4.07	
26 01 50 51-0347	EA 3', 1,650 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Sylvania LED12T8/L36/FG/835/BF).....	33.13	
	<i>For Multiple Lamps In Fixture, Deduct</i>	-4.33	
26 01 50 51-0348	EA 4', 1,700 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Sylvania LED14T8/L48/FG/835/BF).....	33.29	
	<i>For Multiple Lamps In Fixture, Deduct</i>	-4.58	
26 01 50 51-0349	EA 4', 2,100 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Sylvania LED17T8/L48/FG/835/BF).....	34.41	
	<i>For Multiple Lamps In Fixture, Deduct</i>	-4.58	

26 01 50 51-0350 Filament LED Lamps <small>(26 01 50 51-0112)</small>			
26 01 50 51-0351	EA 7.5 Watt, 2700K CCT, Clear A19 Filament LED Lamp (Green Creative 7.5FA19DIM/827).....	19.25	
26 01 50 51-0352	EA 4.5 Watt, 2700K CCT, Clear A19 Filament LED Lamp (Green Creative 4.5A19DIM/827/R).....	19.25	
26 01 50 51-0353	EA 4.5 Watt, 2700K CCT, Clear A19 Filament LED Lamp (Green Creative 4.5FA19DIM/827).....	18.53	
26 01 50 51-0354	EA 4.5 Watt, 2400 CCT, Amber A19 Filament LED Lamp (Green Creative 4.5FA19DIM/824/A).....	18.53	
26 01 50 51-0355	EA 4.5 Watt, 2700K CCT, Clear G25 Globe Filament LED Lamp (Green Creative 4.5FG25DIM/827).....	19.68	
26 01 50 51-0356	EA 4.5 Watt, 2400 CCT, Amber G25 Globe Filament LED Lamp (Green Creative 4.5FG25DIM/824/A).....	19.68	
26 01 50 51-0357	EA 3.5 Watt, 2700K CCT, Clear B10 Candle Filament LED Lamp (Green Creative 3.5FB10DIM/827).....	17.11	
26 01 50 51-0358	EA 3.5 Watt, 2700K CCT, Clear B11 Candle Filament LED Lamp (Green Creative 3.5FB11DIM/827/E26).....	17.11	
26 01 50 51-0359	EA 3.5 Watt, 2400 CCT, Amber B10 Candle Filament LED Lamp (Green Creative 3.5FBA10DIM/824/FT/A).....	17.54	
26 01 50 51-0360	EA 3.5 Watt, 2400 CCT, Amber ST19 Filament LED Lamp (Green Creative 5FST19DIM/824/A).....	20.68	
26 01 50 51-0361	EA 4.5 Watt, 120 Volt 450 Lumens ULTRA LED Filament Lamp (Sylvania 79521).....	24.73	

26 01 50 51-0362 Other Lamps <small>(26 01 50 51-0112)</small>			
26 01 50 51-0363	EA 8 Watt, Medium Base, A19, A-Shape Dimmable LED Lamp (Philips 8A19/END/2700 DIM 6/1).....	18.42	
26 01 50 51-0364	EA 8 Watt, Medium Base, A19, A-Shape Dimmable LED Lamp (Philips 7A19/2700 DIM).....	18.42	
26 01 50 51-0365	EA 11 Watt, Medium Base, A19, A-Shape Dimmable LED Lamp (Philips 11A19/2700 DIM).....	18.42	
26 01 50 51-0366	EA 12 Watt, Medium Base, Dimmable BR40 LED Lamp (Philips 12BR40/F90 2700 DIM AF 6/1).....	19.13	
26 01 50 51-0367	EA 13 Watt, Medium Base, Dimmable PAR38 LED Single Optic Lamp (Philips 13PAR38/S15 4000 DIM AF SO 6/1).....	19.13	
26 01 50 51-0368	EA 8 Watt, Medium Base, Dimmable PAR20 LED Lamp (Philips 8PAR20/END/F36 3000 DIM 6/1).....	19.13	

26 01 50 51-0369 Recycle Hazardous Lamps <small>(26 01 50 51)</small>			
Note: Includes containers, shipping costs and recycling fees. Excludes lamp removal. See CSI section 26 01 50 51-0001 for removal of lamps from fixtures.			
26 01 50 51-0370	EA Recycle 2' Length Linear Fluorescent Lamps.....	1.72	
26 01 50 51-0371	EA Recycle 3' Length Linear Fluorescent Lamps.....	2.20	
26 01 50 51-0372	EA Recycle 4' Length Linear Fluorescent Lamps.....	2.69	
26 01 50 51-0373	EA Recycle 6' Length Linear Fluorescent Lamps.....	3.80	
26 01 50 51-0374	EA Recycle 8' Length Linear Fluorescent Lamps.....	4.77	
26 01 50 51-0375	EA Recycle Compact Fluorescent Lamps.....	4.39	
26 01 50 51-0376	EA Recycle U-Shaped Or Circular Fluorescent Lamps.....	4.39	
26 01 50 51-0377	EA Recycle High Intensity Discharge (HID) Lamps.....	6.94	

26 01 50 52 Ballasts Replacement (26 01 50)

26 01 50 52-0001 Owner Supplied Ballasts <small>(26 01 50 52)</small>			
26 01 50 52-0002	EA Install Owner Supplied, 1 Lamp Fluorescent Ballast.....	30.87	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.26	
26 01 50 52-0003	EA Install Owner Supplied, 2 Lamp Fluorescent Ballast.....	38.58	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.57	
26 01 50 52-0004	EA Install Owner Supplied, 3 Lamp Fluorescent Ballast.....	44.76	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.43	
26 01 50 52-0005	EA Install Owner Supplied, 4 Lamp Fluorescent Ballast.....	47.84	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.35	
26 01 50 52-0006	EA Install Owner Supplied, 1 Lamp High Intensity Discharge (HID) Ballast.....	54.01	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.20	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 52-0007 EA Install Owner Supplied, 2 Lamp High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	57.10 17.13	
26 01 50 52-0008 High Intensity Discharge (HID) Ballasts <small>(26 01 50 52)</small>		
26 01 50 52-0009 Magnetic High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0009)</small>		
26 01 50 52-0010 Core And Coil High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0009)</small>		
26 01 50 52-0011 Metal Halide, Core And Coil High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0010)</small>		
26 01 50 52-0012 EA 1 Lamp, 100 Watt Metal Halide, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	178.34 16.20	38.58
26 01 50 52-0013 EA 1 Lamp, 250 Watt Metal Halide, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	182.36 16.20	38.58
26 01 50 52-0014 EA 1 Lamp, 250 Watt Metal Halide, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	182.36 16.20	38.58
26 01 50 52-0015 EA 1 Lamp, 400 Watt Metal Halide, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	170.91 16.20	38.58
26 01 50 52-0016 EA 1 Lamp, 400 Watt Metal Halide, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	170.91 16.20	38.58
26 01 50 52-0017 EA 1 Lamp, 1,000 Watt Metal Halide, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	247.62 16.20	38.58
26 01 50 52-0018 EA 1 Lamp, 1,000 Watt Metal Halide, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	247.62 16.20	38.58
26 01 50 52-0019 EA 1 Lamp, 1,500 Watt Metal Halide, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	315.19 16.20	38.58
26 01 50 52-0020 EA 1 Lamp, 1,500 Watt Metal Halide, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	349.65 16.20	38.58
26 01 50 52-0021 High Pressure Sodium, Core And Coil High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0010)</small>		
26 01 50 52-0022 EA 1 Lamp, 50 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	162.45 16.20	38.58
26 01 50 52-0023 EA 1 Lamp, 70 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	171.44 16.20	38.58
26 01 50 52-0024 EA 1 Lamp, 100 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	167.56 16.20	38.58
26 01 50 52-0025 EA 1 Lamp, 150 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	194.58 16.20	38.58
26 01 50 52-0026 EA 1 Lamp, 150 Watt High Pressure Sodium, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	190.72 16.20	38.58
26 01 50 52-0027 EA 1 Lamp, 250 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	215.79 16.20	38.58
26 01 50 52-0028 EA 1 Lamp, 250 Watt High Pressure Sodium, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	215.79 16.20	38.58
26 01 50 52-0029 EA 1 Lamp, 400 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	257.49 16.20	38.58
26 01 50 52-0030 EA 1 Lamp, 400 Watt High Pressure Sodium, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	257.49 16.20	38.58
26 01 50 52-0031 EA 1 Lamp, 1,000 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	403.82 16.20	38.58
26 01 50 52-0032 EA 1 Lamp, 1,000 Watt High Pressure Sodium, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	403.82 16.20	38.58
26 01 50 52-0033 Mounting Brackets For Core And Coil High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0010)</small>		
26 01 50 52-0034 EA Single Mounting Bracket For Core And Coil Type <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21.47 4.63	
26 01 50 52-0035 EA Double Mounting Bracket For Core And Coil Type <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	35.27 6.95	
26 01 50 52-0036 F-Can High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0009)</small>		
26 01 50 52-0037 Metal Halide, F-Can High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0036)</small>		
26 01 50 52-0038 EA 1 Lamp, 70 Watt Metal Halide, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast..... <i>For Pulse Start Ballast, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	222.62 16.66 16.20	38.58
26 01 50 52-0039 EA 1 Lamp, 100 Watt Metal Halide, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast..... <i>For Pulse Start Ballast, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	233.77 17.98 16.20	38.58
26 01 50 52-0040 EA 1 Lamp, 175 Watt Metal Halide, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast..... <i>For Pulse Start Ballast, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	214.17 16.02 16.20	38.58
26 01 50 52-0041 EA 1 Lamp, 250 Watt Metal Halide, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast..... <i>For Pulse Start Ballast, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	246.38 19.24 16.20	38.58
26 01 50 52-0042 EA 1 Lamp, 400 Watt Metal Halide, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast..... <i>For Pulse Start Ballast, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	336.63 28.26 16.20	38.58

26 Electrical
26 01 Operation and Maintenance of Electrical Systems
26 01 50 Operation and Maintenance of Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 52-0043			High Pressure Sodium, F-Can High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0036)</small>		
26 01 50 52-0044	EA	1	Lamp, 70 Watt High Pressure Sodium, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast.....	264.88	38.58
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.20	
26 01 50 52-0045	EA	1	Lamp, 100 Watt High Pressure Sodium, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast.....	282.27	38.58
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.20	
26 01 50 52-0046			Postline High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0009)</small>		
26 01 50 52-0047			Metal Halide, Postline High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0046)</small>		
26 01 50 52-0048	EA	1	Lamp, 50 Watt Metal Halide, 120 Volt, Postline High Intensity Discharge (HID) Ballast.....	431.54	38.58
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.20	
26 01 50 52-0049			High Pressure Sodium, Postline High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0046)</small>		
26 01 50 52-0050	EA	1	Lamp, 70 Watt High Pressure Sodium, 120 Volt, Postline High Intensity Discharge (HID) Ballast.....	657.23	38.51
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.17	
26 01 50 52-0051	EA	1	Lamp, 100 Watt High Pressure Sodium, 120 Volt, Postline High Intensity Discharge (HID) Ballast.....	731.34	38.51
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.17	
26 01 50 52-0052	EA	1	Lamp, 150 Watt High Pressure Sodium, 120 Volt, Postline High Intensity Discharge (HID) Ballast.....	705.70	38.51
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.17	
26 01 50 52-0053			Indoor Enclosed High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0009)</small>		
26 01 50 52-0054			Metal Halide, Indoor Enclosed High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0053)</small>		
26 01 50 52-0055	EA	1	Lamp, 175 Watt Metal Halide, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....	528.08	38.58
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.20	
26 01 50 52-0056	EA	1	Lamp, 250 Watt Metal Halide, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....	597.47	38.58
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.20	
26 01 50 52-0057	EA	1	Lamp, 400 Watt Metal Halide, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....	784.63	38.58
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.20	
26 01 50 52-0058	EA	1	Lamp, 400 Watt Metal Halide, 480 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....	780.60	38.58
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.20	
26 01 50 52-0059	EA	2	Lamp, 400 Watt Metal Halide, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....	1,088.85	41.67
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.13	
26 01 50 52-0060	EA	2	Lamp, 400 Watt Metal Halide, 480 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....	1,088.85	41.67
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.13	
26 01 50 52-0061	EA	1	Lamp, 1,000 Watt Metal Halide, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....	753.06	38.58
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.20	
26 01 50 52-0062	EA	1	Lamp, 1,000 Watt Metal Halide, 480 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....	883.50	38.58
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.20	
26 01 50 52-0063			High Pressure Sodium, Indoor Enclosed High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0053)</small>		
26 01 50 52-0064	EA	1	Lamp, 400 Watt High Pressure Sodium, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....	973.19	38.58
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.20	
26 01 50 52-0065	EA	1	Lamp, 400 Watt High Pressure Sodium, 480 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....	927.22	38.58
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.20	
26 01 50 52-0066	EA	1	Lamp, 1,000 Watt High Pressure Sodium, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....	1,187.85	38.58
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.20	
26 01 50 52-0067	EA	1	Lamp, 1,000 Watt High Pressure Sodium, 480 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....	1,187.85	38.58
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.20	
26 01 50 52-0068			Outdoor Weatherproof High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0009)</small>		
26 01 50 52-0069			Metal Halide, Outdoor Weatherproof High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0068)</small>		
26 01 50 52-0070	EA	1	Lamp, 175 Watt Metal Halide, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast.....	591.67	38.58
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.20	
26 01 50 52-0071	EA	1	Lamp, 250 Watt Metal Halide, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast.....	637.99	38.58
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.20	
26 01 50 52-0072	EA	1	Lamp, 400 Watt Metal Halide, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast.....	633.43	38.58
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.20	
26 01 50 52-0073	EA	1	Lamp, 400 Watt Metal Halide, 480 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast.....	664.46	38.58
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.20	
26 01 50 52-0074	EA	2	Lamp, 400 Watt Metal Halide, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast.....	1,048.38	41.67
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.13	
26 01 50 52-0075	EA	2	Lamp, 400 Watt Metal Halide, 480 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast.....	1,285.34	41.67
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.13	
26 01 50 52-0076	EA	1	Lamp, 1,000 Watt Metal Halide, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast.....	978.58	38.58
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.20	
26 01 50 52-0077	EA	1	Lamp, 1,000 Watt Metal Halide, 480 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast.....	892.18	38.58
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.20	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 52-0078				High Pressure Sodium, Outdoor Weatherproof High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0068)</small>		
26 01 50 52-0079	EA			1 Lamp, 400 Watt High Pressure Sodium, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast.....	759.74	38.58
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.20	
26 01 50 52-0080	EA			1 Lamp, 400 Watt High Pressure Sodium, 480 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast.....	818.16	38.58
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.20	
26 01 50 52-0081	EA			1 Lamp, 1,000 Watt High Pressure Sodium, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast.....	1,214.81	38.58
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.20	
26 01 50 52-0082	EA			1 Lamp, 1,000 Watt High Pressure Sodium, 480 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast.....	1,047.22	38.58
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.20	
26 01 50 52-0083				Electronic High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0083)</small>		
26 01 50 52-0084				Electronic Low Frequency High Intensity Discharge (HID) Ballasts <small>(26 01 50 52-0083)</small>		
26 01 50 52-0085	EA			1 Lamp, 70 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast	244.83	38.58
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.20	
26 01 50 52-0086	EA			1 Lamp, 100 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast	244.83	38.58
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.20	
26 01 50 52-0087	EA			1 Lamp, 150 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast	274.11	38.58
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.20	
26 01 50 52-0088	EA			1 Lamp, 250 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast	684.43	38.58
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.20	
26 01 50 52-0089	EA			1 Lamp, 300 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast	684.43	38.58
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.20	
26 01 50 52-0090	EA			1 Lamp, 320 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast	684.43	38.58
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.20	
26 01 50 52-0091	EA			1 Lamp, 350 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast	684.43	38.58
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.20	
26 01 50 52-0092	EA			1 Lamp, 400 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast	684.43	38.58
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.20	
26 01 50 53				Lens and Accessory Replacement <small>(26 01 50)</small>		
26 01 50 53-0001				Lens and Accessory Replacement <small>(26 01 50 53)</small>		
26 01 50 53-0002	EA			Removal And Replacement Of Parabolic Aluminum Louver.....	92.40	
26 01 50 53-0003	EA			Removal And Replacement Of Visor For Fixtures	220.02	
26 01 50 53-0004	EA			Removal And Replacement Of Globe On Pole	235.04	
26 01 50 53-0005	EA			Removal And Replacement Of Lenses For Flat Top Pole Fixtures.....	105.56	
26 01 50 53-0006	EA			Removal And Replacement Of 1' x 4' Diffuser With 0.125" Thick Prismatic Acrylic Diffuser.....	37.26	
26 01 50 53-0007	EA			Removal And Replacement Of 2' x 2' Diffuser With 0.125" Thick Prismatic Acrylic Diffuser.....	38.30	
26 01 50 53-0008	EA			Removal And Replacement Of 2' x 4' Diffuser With 0.125" Thick Prismatic Acrylic Diffuser.....	42.80	
26 01 50 53-0009	EA			Removal And Replacement Of Slide-On Lampholder	17.04	
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.62	
26 01 50 53-0010	EA			Removal And Replacement Of Screw Mount Lampholder.....	17.20	
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.62	
26 01 50 53-0011	EA			Removal And Replacement Of Medium Bi-Pin Lampholder	18.57	
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.62	
26 01 50 53-0012	EA			Removal And Replacement Of Fixed High Output Lampholder, Recessed, Double Contact Double Pedestal Type	20.68	
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.62	
26 01 50 53-0013	EA			Removal And Replacement Of Plunger High Output Lampholder, Recessed, Double Contact Double Pedestal Type	22.06	
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.62	
26 01 50 53-0014	EA			Removal And Replacement Of Compact Twin-Tube Lampholder, Snap-in	18.36	
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.62	
26 01 50 53-0015	EA			Removal And Replacement Of Exterior Light Globes.....	64.36	
26 01 50 81				Luminaire Replacement <small>(26 01 50)</small>		
26 01 50 81-0001				Retrofit Lighting Fixtures <small>(26 01 50 81)</small>		
26 01 50 81-0002				LED Lighting Retrofits For Existing Fixtures <small>(26 01 50 81-0001)</small>		
26 01 50 81-0003				LED Lighting Retrofits For Existing Downlight Fixtures (GreenCreative) <small>(26 01 50 81-0002)</small>		
				Note: Includes removing existing lamps and disconnecting existing ballast. Includes installing adaptor frame, LED light panel, dimming driver and trim. Excludes recycling or disposal of lamps and ballasts.		
26 01 50 81-0004	EA			7" Round Downlight, 15 Watt, 2700K CCT, LED Retrofit (GreenCreative 15SMPR7DIM/927)	119.47	
26 01 50 81-0005	EA			7" Round Downlight, 15 Watt, 3000K CCT, LED Retrofit (GreenCreative 15SMPR7DIM/930)	119.47	
26 01 50 81-0006	EA			7" Round Downlight, 15 Watt, 4000K CCT, LED Retrofit (GreenCreative 15SMPR7DIM/940)	119.47	
26 01 50 81-0007	EA			4" Diameter, 8.5 Watt, 2700K CCT, THINFIT LED Downlight, (GreenCreative 8.5DLNC4DIM/827).....	101.80	
26 01 50 81-0008	EA			4" Diameter, 8.5 Watt, 3000K CCT, THINFIT LED Downlight, (GreenCreative 8.5DLNC4DIM/830).....	101.80	
26 01 50 81-0009	EA			4" Diameter, 8.5 Watt, 4000K CCT, THINFIT LED Downlight, (GreenCreative 8.5DLNC4DIM/840).....	101.80	
26 01 50 81-0010	EA			6" Diameter, 11.6 Watt, 2700K CCT, THINFIT LED Downlight, (GreenCreative 11.6DLNC6DIM/827).....	109.24	
26 01 50 81-0011	EA			6" Diameter, 11.6 Watt, 3000K CCT, THINFIT LED Downlight, (GreenCreative 11.6DLNC6DIM/830).....	109.24	
26 01 50 81-0012	EA			6" Diameter, 11.6 Watt, 4000K CCT, THINFIT LED Downlight, (GreenCreative 11.6DLNC6DIM/840).....	109.24	

26 Electrical
26 01 Operation and Maintenance of Electrical Systems
26 01 50 Operation and Maintenance of Lighting



MINOR
 CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
 UNIT COST UNIT COST

26 01 50 81-0013 LED Lighting Retrofits For Existing Site Fixtures (Daylight Technology) (26 01 50 81-0002)

Note: Includes removing existing lamps and disconnecting existing ballast. Includes installing adaptor frame, LED light panel, dimming driver and trim. Excludes recycling or disposal of lamps and ballasts.

26 01 50 81-0014	EA	2,300 Lumens, 23 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-20w)	324.99
26 01 50 81-0015	EA	3,300 Lumens, 33 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-30w)	336.15
26 01 50 81-0016	EA	4,400 Lumens, 44 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-40w)	347.31
26 01 50 81-0017	EA	5,400 Lumens, 54 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-50w)	361.54
26 01 50 81-0018	EA	6,500 Lumens, 65 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-60w)	394.08
26 01 50 81-0019	EA	7,600 Lumens, 75 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-70w)	408.32
26 01 50 81-0020	EA	8,600 Lumens, 86 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-80w)	439.00
26 01 50 81-0021	EA	9,600 Lumens, 96 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-90w)	450.16
26 01 50 81-0022	EA	10,700 Lumens, 107 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-100w)	464.39
26 01 50 81-0023	EA	11,700 Lumens, 117 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-110w)	484.84
26 01 50 81-0024	EA	12,800 Lumens, 128 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-120w)	507.45
26 01 50 81-0025	EA	13,800 Lumens, 138 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-130w)	528.83
26 01 50 81-0026	EA	14,900 Lumens, 149 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-140w)	539.99
26 01 50 81-0027	EA	16,100 Lumens, 161 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-150w)	558.58
26 01 50 81-0028	EA	17,200 Lumens, 172 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-160w)	581.80
26 01 50 81-0029	EA	18,200 Lumens, 182 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-170w)	605.04
26 01 50 81-0030	EA	19,300 Lumens, 193 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-180w)	640.37
26 01 50 81-0031	EA	20,300 Lumens, 203 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-190w)	656.17
26 01 50 81-0032	EA	21,400 Lumens, 214 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-200w)	684.35
26 01 50 81-0033	EA	22,400 Lumens, 224 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-210w)	720.61
26 01 50 81-0034	EA	23,500 Lumens, 235 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-220w)	739.21
26 01 50 81-0035	EA	24,500 Lumens, 245 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-230w)	784.72
26 01 50 81-0036	EA	25,600 Lumens, 256 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-240w)	825.63
26 01 50 81-0037	EA	26,600 Lumens, 266 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-250w)	854.75
26 01 50 81-0038	EA	27,700 Lumens, 277 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-260w)	894.73
26 01 50 81-0039	EA	28,700 Lumens, 287 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-270w)	973.11
26 01 50 81-0040	EA	29,800 Lumens, 298 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-280w)	982.41
26 01 50 81-0041	EA	31,900 Lumens, 319 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-300w)	1,007.48

26 01 50 81-0042 LED Lighting Retrofits For Existing Fixtures (Optilumen) (26 01 50 81-0002)

Note: Includes removing existing lamps and disconnecting existing ballast. Includes installing adaptor frame, LED light panel, dimming driver and trim. Excludes recycling or disposal of lamps and ballasts.

26 01 50 81-0043	EA	20 Watt, 1 x 42", 3500L CCT, LED Retrofit Kit (Optilumen RKT1418M-35).....	145.81
Note: Fits 1' x 4' Troffer/Strip			
26 01 50 81-0044	EA	20 Watt, 1 x 42", 4000L CCT, LED Retrofit Kit (Optilumen RKT1418M-40).....	145.81
Note: Fits 1' x 4' Troffer/Strip			
26 01 50 81-0045	EA	20 Watt, 1 x 42", 5000L CCT, LED Retrofit Kit (Optilumen RKT1418M-50).....	145.81
Note: Fits 1' x 4' Troffer/Strip			
26 01 50 81-0046	EA	30 Watt, 2 x 42", 3500L CCT, LED Retrofit Kit (Optilumen RKT2415M-35).....	150.46
Note: Fits 2' x 4' Troffer/Strip			
26 01 50 81-0047	EA	2 x 42", 30 Watt, 4000K CCT, LED Retrofit Kit (Optilumen RKT2415M-40).....	150.46
Note: Fits 2' x 4' Troffer/Strip			
26 01 50 81-0048	EA	2 x 42", 30 Watt, 5000K CCT, LED Retrofit Kit (Optilumen RKT2415M-50).....	150.46
Note: Fits 2' x 4' Troffer/Strip			
26 01 50 81-0049	EA	2 x 42", 40 Watt, 3500K CCT, LED Retrofit Kit (Optilumen RKT2418M-35).....	159.75
Note: Fits 2' x 4' Troffer/Strip			
26 01 50 81-0050	EA	2 x 42", 40 Watt, 4000K CCT, LED Retrofit Kit (Optilumen RKT2418M-40).....	159.75
Note: Fits 2' x 4' Troffer/Strip			
26 01 50 81-0051	EA	2 x 42", 40 Watt, 5000K CCT, LED Retrofit Kit (Optilumen RKT2418M-50).....	159.75
Note: Fits 2' x 4' Troffer/Strip			
26 01 50 81-0052	EA	3 x 42", 30 Watt, 3500K CCT, LED Retrofit Kit (Optilumen RKT3415M-35).....	150.46
Note: Fits 2' x 4' Troffer/Strip			
26 01 50 81-0053	EA	3 x 42", 30 Watt, 4000K CCT, LED Retrofit Kit (Optilumen RKT3415M-40).....	150.46
Note: Fits 2' x 4' Troffer/Strip			
26 01 50 81-0054	EA	3 x 42", 30 Watt, 5000K CCT, LED Retrofit Kit (Optilumen RKT3415M-50).....	150.46
Note: Fits 2' x 4' Troffer/Strip			
26 01 50 81-0055	EA	3 x 42", 40 Watt, 3500K CCT, LED Retrofit Kit (Optilumen RKT3418M-35).....	159.75
Note: Fits 2' x 4' Troffer/Strip			
26 01 50 81-0056	EA	3 x 42", 40 Watt, 4000K CCT, LED Retrofit Kit (Optilumen RKT3418M-40).....	159.75
Note: Fits 2' x 4' Troffer/Strip			
26 01 50 81-0057	EA	3 x 42", 40 Watt, 5000K CCT, LED Retrofit Kit (Optilumen RKT3418M-50).....	159.75
Note: Fits 2' x 4' Troffer/Strip			
26 01 50 81-0058	EA	3 x 42", 60 Watt, 3500K CCT, LED Retrofit Kit (Optilumen RKT3424M-35).....	178.35
Note: Fits 2' x 4' Troffer/Strip			
26 01 50 81-0059	EA	3 x 42", 60 Watt, 4000K CCT, LED Retrofit Kit (Optilumen RKT3424M-40).....	178.35
Note: Fits 2' x 4' Troffer/Strip			
26 01 50 81-0060	EA	3 x 42", 60 Watt, 5000K CCT, LED Retrofit Kit (Optilumen RKT3424M-50).....	178.35
Note: Fits 2' x 4' Troffer/Strip			
26 01 50 81-0061	EA	1 x 21", 10 Watt, 3500K CCT, LED Retrofit Kit (Optilumen RKT1209M-35).....	145.81
Note: Fits 1' x 2' Troffer/Strip			
26 01 50 81-0062	EA	1 x 21", 10 Watt, 4000K CCT, LED Retrofit Kit (Optilumen RKT1209M-40).....	145.81
Note: Fits 1' x 2' Troffer/Strip			
26 01 50 81-0063	EA	1 x 21", 10 Watt, 5000K CCT, LED Retrofit Kit (Optilumen RKT1209M-50).....	145.81
Note: Fits 1' x 2' Troffer/Strip			
26 01 50 81-0064	EA	2 x 21", 22 Watt, 3500K CCT, LED Retrofit Kit (Optilumen RKT2209M-35).....	145.81
Note: Fits 2' x 2' Troffer/Strip			
26 01 50 81-0065	EA	2 x 21", 22 Watt, 4000K CCT, LED Retrofit Kit (Optilumen RKT2209M-40).....	145.81
Note: Fits 2' x 2' Troffer/Strip			



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 81-0066 EA 2 x 21", 22 Watt, 5000K CCT, LED Retrofit Kit (Optilumen RKT2209M-50).....	145.81	
Note: Fits 2' x 2' Troffer/Strip		
26 01 50 81-0067 EA 3 x 21", 20 Watt, 3500K CCT, LED Retrofit Kit (Optilumen RKT3209M-35).....	150.46	
Note: Fits 2' x 2' Troffer/Strip		
26 01 50 81-0068 EA 3 x 21", 20 Watt, 4000K CCT, LED Retrofit Kit (Optilumen RKT3209M-40).....	150.46	
Note: Fits 2' x 2' Troffer/Strip		
26 01 50 81-0069 EA 3 x 21", 20 Watt, 5000K CCT, LED Retrofit Kit (Optilumen RKT3209M-50).....	150.46	
Note: Fits 2' x 2' Troffer/Strip		
26 01 50 81-0070 EA 3 x 21", 30 Watt, 3500K CCT, LED Retrofit Kit (Optilumen RKT3210M-35).....	156.03	
Note: Fits 2' x 2' Troffer/Strip		
26 01 50 81-0071 EA 3 x 21", 30 Watt, 4000K CCT, LED Retrofit Kit (Optilumen RKT3210M-40).....	156.03	
Note: Fits 2' x 2' Troffer/Strip		
26 01 50 81-0072 EA 3 x 21", 30 Watt, 5000K CCT, LED Retrofit Kit (Optilumen RKT3210M-50).....	156.03	
Note: Fits 2' x 2' Troffer/Strip		
26 01 50 81-0073 LED Lighting Retrofits For Existing Lay-In/Troffer Fixtures (LG) <small>(26 01 50 81-0002)</small>		
Note: Includes removing existing lamps and disconnecting existing ballast. Includes installing adaptor frame, LED light panel, dimming driver and trim. Excludes recycling or disposal of lamps and ballasts.		
26 01 50 81-0074 EA 34 Watt, 3500K CCT, 2' x 4', Retrofit Troffer LED Fixture With Sensor (LG LGE-2X4RT-34-35-4400-R(W)-SN).....	298.04	
26 01 50 81-0075 EA 34 Watt, 4000K CCT, 2' x 4', Retrofit Troffer LED Fixture With Sensor (LG LGE-2X4RT-34-40-4500-R(W)-SN).....	298.04	
26 01 50 81-0076 EA 26 Watt, 3500K CCT, 2' x 2', Retrofit Troffer LED Fixture With Sensor (LG LGE-2X2RT-26-35-3400-R(W)-SN).....	271.08	
26 01 50 81-0077 EA 26 Watt, 4000K CCT, 2' x 2', Retrofit Troffer LED Fixture With Sensor (LG LGE-2X2RT-26-40-3400-R(W)-SN).....	271.08	
26 01 50 81-0078 EA 25 Watt, 3,250 Lumens, 3500K CCT, Lay-In Retrofit 2' x 2' Troffer (LG LGE-2X2SI-25-35-3200-RV).....	145.55	
Note: No sensor, ZigBee ready driver		
26 01 50 81-0079 EA 25 Watt, 3,250 Lumens, 4000K CCT, Lay-In Retrofit 2' x 2' Troffer (LG LGE-2X2SI-25-40-3200-RV).....	145.55	
Note: No sensor, ZigBee ready driver		
26 01 50 81-0080 EA 31 Watt, 4,050 Lumens, 3500K CCT, Lay-In Retrofit 2' x 4' Troffer (LG LGE-2X2SI-31-35-3200-RV).....	163.21	
Note: No sensor, ZigBee ready driver		
26 01 50 81-0081 EA 31 Watt, 4,050 Lumens, 4000K CCT, Lay-In Retrofit 2' x 4' Troffer (LG LGE-2X2SI-31-40-3200-RV).....	163.21	
Note: No sensor, ZigBee ready driver		
26 01 50 81-0082 EA 25 Watt, 3,250 Lumens, 3500K CCT, Lay-In Retrofit 2' x 2' Troffer With Sensor Connect (LG LGE-2X2SC-25-35-3200-RV).....	176.23	
Note: Factory installed sensor and ZigBee dongle		
26 01 50 81-0083 EA 25 Watt, 3,250 Lumens, 4000K CCT, Lay-In Retrofit 2' x 2' Troffer With Sensor Connect (LG LGE-2X2SC-25-40-3200-RV).....	176.23	
Note: Factory installed sensor and ZigBee dongle		
26 01 50 81-0084 EA 31 Watt, 3,250 Lumens, 3500K CCT, Lay-In Retrofit 2' x 4' Troffer With Sensor Connect (LG LGE-2X2SC-31-35-3200-RV).....	180.87	
Note: Factory installed sensor and ZigBee dongle		
26 01 50 81-0085 EA 31 Watt, 3,250 Lumens, 4000K CCT, Lay-In Retrofit 2' x 4' Troffer With Sensor Connect (LG LGE-2X2SC-31-40-3200-RV).....	180.87	
Note: Factory installed sensor and ZigBee dongle		
26 01 50 81-0086 EA 2' x 2' 2-Board, 25 Watt, 3,120 Lumens, 3500K CCT, Retrofit Board Kits (LG LGE-2BDK-25-35-3120).....	118.58	
Note: No sensor, ZigBee ready driver		
26 01 50 81-0087 EA 2' x 2' 2-Board, 25 Watt, 3,120 Lumens, 4000K CCT, Retrofit Board Kits (LG LGE-2BDK-25-40-3120).....	118.58	
Note: No sensor, ZigBee ready driver		
26 01 50 81-0088 EA 2' x 4' 4-Board, 31 Watt, 3,120 Lumens, 3500K CCT, Retrofit Board Kits (LG LGE-4BDK-31-35-3880).....	129.74	
Note: No sensor, ZigBee ready driver		
26 01 50 81-0089 EA 2' x 4' 4-Board, 31 Watt, 3,120 Lumens, 4000K CCT, Retrofit Board Kits (LG LGE-4BDK-31-40-3880).....	129.74	
Note: No sensor, ZigBee ready driver		
26 01 50 81-0090 EA 2' x 2' 2-Board, 25 Watt, 3,120 Lumens, 3500K CCT, With Lens Retrofit Board Kits (LG LGE-2BDK-25-35-3120-L).....	121.37	
Note: No sensor, ZigBee ready driver		
26 01 50 81-0091 EA 2' x 2' 2-Board, 25 Watt, 3,120 Lumens, 4000K CCT, With Lens Retrofit Board Kits (LG LGE-2BDK-25-40-3120-L).....	121.37	
Note: No sensor, ZigBee ready driver		
26 01 50 81-0092 EA 2' x 4' 4-Board, 31 Watt, 3,120 Lumens, 3500K CCT, With Lens Retrofit Board Kits (LG LGE-4BDK-31-35-3880-L).....	132.53	
Note: No sensor, ZigBee ready driver		
26 01 50 81-0093 EA 2' x 4' 4-Board, 31 Watt, 3,120 Lumens, 4000K CCT, With Lens Retrofit Board Kits (LG LGE-4BDK-31-40-3880-L).....	132.53	
Note: No sensor, ZigBee ready driver		
26 01 50 81-0094 EA 6" Diameter, 16 Watt, 1,450 Lumens, 3500K CCT, Comm Retrofit Downlight (LG LGE-CRDL-16-35-1450).....	120.44	
Note: No sensor, ZigBee ready driver		
26 01 50 81-0095 EA 6" Diameter, 16 Watt, 1,450 Lumens, 4000K CCT, Comm Retrofit Downlight (LG LGE-CRDL-16-40-1450).....	120.44	
Note: No sensor, ZigBee ready driver		
26 01 50 81-0096 EA 8" Diameter, 22 Watt, 2,000 Lumens, 3500K CCT, Comm Retrofit Downlight (LG LGE-CRDL-22-35-2000).....	128.81	
Note: No sensor, ZigBee ready driver		
26 01 50 81-0097 EA 8" Diameter, 22 Watt, 2,000 Lumens, 4000K CCT, Comm Retrofit Downlight (LG LGE-CRDL-22-40-2000).....	128.81	
Note: No sensor, ZigBee ready driver		
26 01 50 81-0098 LED Lighting Retrofit Accessories (LG) <small>(26 01 50 81-0002)</small>		
26 01 50 81-0099 EA Dongle (LG LGE-DONGLE).....	26.39	
26 01 50 81-0100 EA 1-group On/Off/Dim, 2-Button, Wireless Switch (LG LGE-SWITCH-BAT-2B).....	143.60	17.57
26 01 50 81-0101 EA 2-group On/Off/Dim, 4-Button, Wireless Switch (LG LGE-SWITCH-BAT-4B).....	150.62	21.08
26 01 50 81-0102 EA 1-group On/Off/Dim, 2-Button, AC Powered Switch (LG LGE-SWITCH-AC-2B).....	182.34	17.57
26 01 50 81-0103 EA 2-group On/Off/Dim, 4-Button, AC Powered Switch (LG LGE-SWITCH-AC-4B).....	189.36	21.08
26 01 50 81-0104 EA Photo, Motion Sensor With ZigBee Dongle plugin (LG LGE-MULTI-SENSOR).....	95.90	14.06
26 01 50 81-0105 EA Tube Clip For Multi Sensor (LG LGE-TUBE-CLIP).....	36.09	14.06
26 01 50 81-0106 EA Ceiling Plate For Multi Sensor (LG LGE-CEILING-PLATE).....	38.36	14.06
26 01 50 81-0107 EA Wireless Interface Module (LG PIHN-W005A).....	93.49	21.08
Note: includes dongle		
26 01 50 81-0108 Retrofit Existing (T12) Fluorescent Fixtures <small>(26 01 50 81-0001)</small>		
Note: Excludes recycling or disposal of lamps and ballasts.		

26 Electrical**26 01 Operation and Maintenance of Electrical Systems****26 01 50 Operation and Maintenance of Lighting**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 81-0109		Retrofit Existing (T12) Strip Style Fluorescent Fixtures Without Reflector ^(26 01 50 81-0109) Note: Includes ballast, white reflective ballast cover, lamps, lamp holders, clips, wiring, cable connectors and cleaning of fixture.		
26 01 50 81-0110	EA	Retrofit An Existing 4' (T12) Strip Style Fixture Without Reflector To Operate One 4' (T8) Lamp..... <i>For Specular Ballast Cover, Add</i>	115.86 12.39	
26 01 50 81-0111	EA	Retrofit An Existing 4' (T12) Strip Style Fixture Without Reflector To Operate Two 4' (T8) Lamps..... <i>For Specular Ballast Cover, Add</i>	122.15 13.65	
26 01 50 81-0112	EA	Retrofit An Existing 8' (T12) Strip Style Fixture Without Reflector To Operate Two 4' (T8) Lamps..... <i>For Specular Ballast Cover, Add</i>	163.31 21.88	
26 01 50 81-0113	EA	Retrofit An Existing 8' (T12) Strip Style Fixture Without Reflector To Operate Four 4' (T8) Lamps..... <i>For Specular Ballast Cover, Add</i>	184.79 26.18	
26 01 50 81-0114		Retrofit Existing (T12) Strip Style Fluorescent Fixtures With Reflector ^(26 01 50 81-0109) Note: Includes ballast, white reflector and ballast cover, lamps, lamp holders, clips, wiring, cable connectors and cleaning of fixture.		
26 01 50 81-0115	EA	Retrofit An Existing 4' (T12) Strip Style Fixture With Reflector To Operate One 4' (T8) Lamp..... <i>For Specular Reflector, Add</i>	121.92 13.60	
26 01 50 81-0116	EA	Retrofit An Existing 4' (T12) Strip Style Fixture With Reflector To Operate Two 4' (T8) Lamps..... <i>For Specular Reflector, Add</i>	128.93 15.01	
26 01 50 81-0117	EA	Retrofit An Existing 8' (T12) Strip Style Fixture With Reflector To Operate Two 4' (T8) Lamps..... <i>For Specular Reflector, Add</i>	171.78 23.58	
26 01 50 81-0118	EA	Retrofit An Existing 8' (T12) Strip Style Fixture With Reflector To Operate Four 4' (T8) Lamps..... <i>For Specular Reflector, Add</i>	213.95 32.01	
26 01 50 81-0119		Retrofit Existing (T12) Troffer Style Fluorescent Fixtures ^(26 01 50 81-0109) Note: Includes ballast, white reflector and ballast cover, lamps, lamp holders, clips, wiring, cable connectors and cleaning of fixture.		
26 01 50 81-0120	EA	Retrofit An Existing 1 x 4 (T12) Troffer Style Fixture To Operate One 4' (T8) Lamps..... <i>For Specular Reflector, Add</i>	153.06 16.75	
26 01 50 81-0121	EA	Retrofit An Existing 1 x 4 (T12) Troffer Style Fixture To Operate Two 4' (T8) Lamps..... <i>For Specular Reflector, Add</i>	159.35 18.01	
26 01 50 81-0122	EA	Retrofit An Existing 2 x 2 (T12) Troffer Style Fixture To Operate Two 2' (T8) Lamps..... <i>For Specular Reflector, Add</i>	162.98 18.73	
26 01 50 81-0123	EA	Retrofit An Existing 2 x 2 (T12) Troffer Style Fixture To Operate Three 2' (T8) Lamps..... <i>For Specular Reflector, Add</i>	180.37 22.21	
26 01 50 81-0124	EA	Retrofit An Existing 2 x 2 (T12) Troffer Style Fixture To Operate Four 2' (T8) Lamps..... <i>For Specular Reflector, Add</i>	214.84 29.11	
26 01 50 81-0125	EA	Retrofit An Existing 2 x 4 (T12) Troffer Style Fixture To Operate Two 4' (T8) Lamps..... <i>For Specular Reflector, Add</i>	166.61 19.46	
26 01 50 81-0126	EA	Retrofit An Existing 2 x 4 (T12) Troffer Style Fixture To Operate Three 4' (T8) Lamps..... <i>For Specular Reflector, Add</i>	180.98 22.33	
26 01 50 81-0127	EA	Retrofit An Existing 2 x 4 (T12) Troffer Style Fixture To Operate Four 4' (T8) Lamps..... <i>For Specular Reflector, Add</i>	192.93 24.72	
26 01 50 81-0128		Retrofit Existing Recessed Lay-In/Troffer Fixtures ^(26 01 50 81-0001)		
26 01 50 81-0129		Fluorescent Volumetric Lighting Retrofits For Existing Recessed Lay-In/Troffer Fixtures (Lithonia) ^(26 01 50 81-0128) Note: Includes removing existing lamps and ballast. Includes installing adaptor frame, volumetric reflectors, lamps and ballasts. Excludes recycling or disposal of lamps and ballasts.		
26 01 50 81-0130	EA	2 T8 Lamps, 0.78 Ballast Factor, 2' x 4', Volumetric Lighting Retrofit For Existing Parabolic Recessed Fluorescent Fixtures (Lithonia 2RT8R).....	178.33	
26 01 50 81-0131	EA	2 T8 Lamps, 0.88 Ballast Factor, 2' x 4', Volumetric Lighting Retrofit For Existing Parabolic Recessed Fluorescent Fixtures (Lithonia 2RT8R).....	178.33	
26 01 50 81-0132	EA	2 T8 Lamps, 1.20 Ballast Factor, 2' x 4', Volumetric Lighting Retrofit For Existing Parabolic Recessed Fluorescent Fixtures (Lithonia 2RT8R).....	178.33	
26 01 50 81-0133	EA	2 T8 Lamps, 0.88 Ballast Factor, Step Dimming Ballast, 2' x 4', Volumetric Lighting Retrofit For Existing Parabolic Recessed Fluorescent Fixtures (Lithonia 2RT8R).....	192.15	
26 01 50 81-0134	EA	2 T8 Lamps, 0.78 Ballast Factor, 2' x 4', Volumetric Lighting Retrofit For Existing Lensed Recessed Fluorescent Fixtures (Lithonia 2RT8RT).....	178.33	
26 01 50 81-0135	EA	2 T8 Lamps, 0.88 Ballast Factor, 2' x 4', Volumetric Lighting Retrofit For Existing Lensed Recessed Fluorescent Fixtures (Lithonia 2RT8RT).....	178.33	
26 01 50 81-0136	EA	2 T8 Lamps, 1.20 Ballast Factor, 2' x 4', Volumetric Lighting Retrofit For Existing Lensed Recessed Fluorescent Fixtures (Lithonia 2RT8RT).....	178.33	
26 01 50 81-0137	EA	2 T8 Lamps, 0.88 Ballast Factor, Step Dimming Ballast, 2' x 4', Volumetric Lighting Retrofit For Existing Lensed Recessed Fluorescent Fixtures (Lithonia 2RT8RT).....	192.15	
26 01 50 81-0138	EA	2 T8 Lamps, 0.78 Ballast Factor, 2' x 2', Volumetric Lighting Retrofit For Existing Parabolic Recessed Fluorescent Fixtures (Lithonia 2RT8R).....	179.33	
26 01 50 81-0139	EA	2 T8 Lamps, 0.88 Ballast Factor, 2' x 2', Volumetric Lighting Retrofit For Existing Parabolic Recessed Fluorescent Fixtures (Lithonia 2RT8R).....	179.33	
26 01 50 81-0140	EA	2 T8 Lamps, 1.20 Ballast Factor, 2' x 2', Volumetric Lighting Retrofit For Existing Parabolic Recessed Fluorescent Fixtures (Lithonia 2RT8R).....	179.33	
26 01 50 81-0141	EA	2 T8 Lamps, 0.88 Ballast Factor, Step Dimming Ballast, 2' x 2', Volumetric Lighting Retrofit For Existing Parabolic Recessed Fluorescent Fixtures (Lithonia 2RT8R).....	193.15	
26 01 50 81-0142	EA	2 T8 Lamps, 0.78 Ballast Factor, 2' x 2', Volumetric Lighting Retrofit For Existing Lensed Recessed Fluorescent Fixtures (Lithonia 2RT8RT).....	179.33	
26 01 50 81-0143	EA	2 T8 Lamps, 0.88 Ballast Factor, 2' x 2', Volumetric Lighting Retrofit For Existing Lensed Recessed Fluorescent Fixtures (Lithonia 2RT8RT).....	179.33	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 81-0144 EA 2 T8 Lamps, 1.20 Ballast Factor, 2' x 2', Volumetric Lighting Retrofit For Existing Lensed Recessed Fluorescent Fixtures (Lithonia 2RT8RT)	179.33	
26 01 50 81-0145 EA 2 T8 Lamps, 0.88 Ballast Factor, Step Dimming Ballast, 2' x 2', Volumetric Lighting Retrofit For Existing Lensed Recessed Fluorescent Fixtures (Lithonia 2RT8RT).....	193.15	
26 01 50 81-0146 LED Architectural Lighting Retrofits For Existing Recessed Lay-In/Troffer Fixtures (PlanLED) <small>(26 01 50 81-0128)</small> Note: Includes adaptor frame, optical system, LEDs and driver. Excludes recycling or disposal of lamps and ballasts.		
26 01 50 81-0147 EA 2,400 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (PlanLED FR3E-025).....	238.55	
26 01 50 81-0148 EA 4,300 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (PlanLED FR3E-045).....	247.95	
26 01 50 81-0149 LED Architectural Lighting Retrofits For Existing Recessed Lay-In/Troffer Fixtures (Raffino™) <small>(26 01 50 81-0128)</small> Note: Includes removing existing lamps and disconnecting existing ballast. Includes installing adaptor frame, LED light panel, dimming driver and trim. Excludes recycling or disposal of lamps and ballasts.		
26 01 50 81-0150 EA 1,800 Lumens, 1' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Raffino™ LR14-1800L).....	364.50	
26 01 50 81-0151 EA 2,600 Lumens, 1' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Raffino™ LR14-2700L).....	372.93	
26 01 50 81-0152 EA 2,200 Lumens, 2' x 2', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Raffino™ LR22-2200L).....	364.50	
26 01 50 81-0153 EA 3,300 Lumens, 2' x 2', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Raffino™ LR22-3300L).....	372.93	
26 01 50 81-0154 EA 3,300 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Raffino™ LR24-3000L).....	415.10	
26 01 50 81-0155 EA 4,150 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Raffino™ LR24-4000L).....	427.76	
26 01 50 81-0156 EA 5,000 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Raffino™ LR24-5000L).....	457.27	
26 01 50 81-0157 LED Architectural Lighting Retrofits For Existing Recessed Lay-In/Troffer Fixtures (Orion) <small>(26 01 50 81-0128)</small> Note: Includes removing existing lamps and disconnecting existing ballast. Includes installing adaptor frame, LED light panel, dimming driver and trim. Excludes recycling or disposal of lamps and ballasts.		
26 01 50 81-0158 EA 3,000 Lumens, 2' x 2', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDR-030L-FO-UNV-FDX-840-22-1P-CT-M-ST).....	338.69	
26 01 50 81-0159 EA 3,500 Lumens, 2' x 2', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDR-035L-FO-UNV-FDX-840-22-1P-CT-M-ST).....	350.46	
26 01 50 81-0160 EA 3,200 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDR-032L-FO-UNV-FDX-840-24-1P-CT-M-ST).....	353.98	
26 01 50 81-0161 EA 3,800 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDR-038L-FO-UNV-FDX-840-24-1P-CT-M-ST).....	365.74	
26 01 50 81-0162 EA 2,000 Lumens, 2' x 2', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDRE1A1UNVFDSX84022MST).....	259.29	
26 01 50 81-0163 EA 4,000 Lumens, 2' x 2', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDRE1B1UNVFDSX84022MST).....	264.87	
26 01 50 81-0164 EA 3,000 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDRE1D1UNVFDSX84024MST).....	273.81	
26 01 50 81-0165 EA 4,000 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDRE1E1UNVFDSX84024MST).....	279.40	
26 01 50 81-0166 EA 6,000 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDRE1F1UNVFDSX84024MST).....	341.98	
26 01 50 81-0167 EA 8,000 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (ORION LDRE1G1UNVFDSX84024MST).....	404.56	
26 01 50 81-0168 Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components) <small>(26 01 50 81-0128)</small> Note: Includes adaptor frame, optical system, lamps and ballasts. Excludes recycling or disposal of lamps and ballasts.		
26 01 50 81-0169 EA 1 T5 Lamp, 2' x 2', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components).....	302.40	
26 01 50 81-0170 EA 1 T8 Lamp, 2' x 2', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components).....	229.52	
26 01 50 81-0171 EA 2 T5 Lamps, 2' x 2', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components).....	310.27	
26 01 50 81-0172 EA 2 T8 Lamps, 2' x 2', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components).....	237.32	
26 01 50 81-0173 EA 3 T5 Lamps, 2' x 2', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components).....	324.48	
26 01 50 81-0174 EA 3 T8 Lamps, 2' x 2', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components).....	257.27	
26 01 50 81-0175 EA 1 T5 Lamp, 2' x 4', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components).....	355.10	
26 01 50 81-0176 EA 1 T8 Lamp, 2' x 4', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components).....	282.03	

26 Electrical
26 01 Operation and Maintenance of Electrical Systems
26 01 50 Operation and Maintenance of Lighting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 81-0177 EA 2 T5 Lamps, 2' x 4', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components).....	362.46	
26 01 50 81-0178 EA 2 T8 Lamps, 2' x 4', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components).....	289.46	
26 01 50 81-0179 EA 3 T5 Lamps, 2' x 4', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components).....	376.49	
26 01 50 81-0180 EA 3 T8 Lamps, 2' x 4', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components).....	309.30	
26 01 50 81-0181 LED Volumetric Lighting Retrofit For Existing Lensed Or Parabolic Recessed Lay-In/Troffer Fixtures (Lithonia 2VTL2R/RT) (26 01 50 81-0128) Note: Includes removing existing lamps and ballast. Includes installing LED light engine assembly, dimming driver and trim. Excludes recycling or disposal of lamps and ballasts.		
26 01 50 81-0182 EA 3,300 Lumens, 2' x 2', LED Volumetric Lighting Retrofit For Existing Lensed Or Parabolic Recessed Lay-In/Troffer Fixtures (Lithonia 2VTL2R/RT).....	661.10	
26 01 50 81-0183 EA 4,800 Lumens, 2' x 4', LED Volumetric Lighting Retrofit For Existing Lensed Or Parabolic Recessed Lay-In/Troffer Fixtures (Lithonia 2VTL4R/RT).....	733.01	
26 01 50 81-0184 Retrofit Existing HID Fixtures (26 01 50 81-0001)		
26 01 50 81-0185 EA Tear Drop LED Retrofit Kit (Holophane LTDRL2 P35S 40K AS BK TDRD 3 P).....	1,492.17	
26 01 50 81-0186 LED Lighting Retrofits For Existing Fluorescent Fixtures (26 01 50 81-0001) Note: Excludes recycling or disposal of lamps and ballasts.		
26 01 50 81-0187 LED Lightbar Retrofit For Existing Fluorescent Fixtures (Lithonia) (26 01 50 81-0186)		
26 01 50 81-0188 EA 2' Length, 2 Bar, 2,000 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 2FT 2 2000LMHE 80CRI 35K MIN10 GZT MVOLT).....	133.86	
For >25 To 50, Deduct	-6.69	
For >50 To 100, Deduct	-11.77	
For >100, Deduct	-20.32	
26 01 50 81-0189 EA 2' Length, 4 Bar, 8,000 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 2FT 4 8000LMHE 80CRI MIN10 GZT MVOLT).....	189.20	
For >25 To 50, Deduct	-9.46	
For >50 To 100, Deduct	-15.92	
For >100, Deduct	-25.85	
26 01 50 81-0190 EA 3' Length, 2 Bar, 4,000 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 3FT 2 4000LMHE 80CRI 35K MIN10 GZT MVOLT).....	145.22	
For >25 To 50, Deduct	-7.26	
For >50 To 100, Deduct	-12.72	
For >100, Deduct	-21.84	
26 01 50 81-0191 EA 3' Length, 1 Bar, 1,600 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 3FT 1 1600LMHE 80CRI 35K MIN10 GZT MVOLT).....	134.43	
For >25 To 50, Deduct	-6.72	
For >50 To 100, Deduct	-11.91	
For >100, Deduct	-20.76	
26 01 50 81-0192 EA 4' Length, 2 Bar, 6,000 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 4FT 2 6000LMHE 80CRI 35K MIN10 GZT MVOLT).....	172.92	
For >25 To 50, Deduct	-8.65	
For >50 To 100, Deduct	-14.89	
For >100, Deduct	-24.99	
26 01 50 81-0193 EA 4' Length, 4 Bar, 6,000 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 4FT 4 6000LMHE 80CRI 35K MIN10 GZT MVOLT).....	220.87	
For >25 To 50, Deduct	-11.04	
For >50 To 100, Deduct	-18.49	
For >100, Deduct	-29.79	
26 01 50 81-0194 EA 4' Length, 1 Bar, 3,000 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 4FT 1 3000LMHE 80CRI 35K MIN10 GZT MVOLT).....	144.94	
For >25 To 50, Deduct	-7.25	
For >50 To 100, Deduct	-12.80	
For >100, Deduct	-22.20	
26 01 50 81-0195 EA 4' Length, 1 Bar, 4,000 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 4FT 1 4000LMHE 80CRI 35K MIN10 GZT MVOLT).....	144.94	
For >25 To 50, Deduct	-7.25	
For >50 To 100, Deduct	-12.80	
For >100, Deduct	-22.20	
26 01 50 81-0196 EA 4' Length, 4 Bar, 8,000 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 4FT 4 8000LMHE 80CRI 35K MIN10 GZT MVOLT).....	182.51	
For >25 To 50, Deduct	-9.13	
For >50 To 100, Deduct	-15.61	
For >100, Deduct	-25.95	
26 01 50 81-0197 EA 4' Length, 2 Bar, 4,000 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 4FT 2 4000LMHE 80CRI 35K MIN10 GZT MVOLT).....	156.93	
For >25 To 50, Deduct	-7.85	
For >50 To 100, Deduct	-13.70	
For >100, Deduct	-23.39	
26 01 50 81-0198 EA 4' Length, 2 Bar, 3,000 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 4FT 2 3000LMHE 80CRI 35K MIN10 GZT MVOLT).....	156.93	
For >25 To 50, Deduct	-7.85	
For >50 To 100, Deduct	-13.70	
For >100, Deduct	-23.39	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 81-0199				LED Retrofit For Existing Fluorescent Fixtures (Lithonia) <small>(26 01 50 81-0186)</small>		
26 01 50 81-0200	EA			1'x 4', 4,000 Lumens, 3500K CCT, Square Smooth Diffuser, Dimming LED Relight Assembly (Lithonia BLT4R F 40LHE SDSMT MVOLT EZ1 LP835 NLTAIR2).....	303.64	
				<i>For nLight AIR PIR integral occupancy sensor with automatic dimming photocell for Networking Capabilities Individual Control (nLight RES7), Add</i>	191.26	
				<i>For nLight AIR radio module without sensor (nLight RIO), Add</i>	124.32	
				<i>For >25 To 50, Deduct</i>	-15.18	
				<i>For >50 To 100, Deduct</i>	-24.70	
				<i>For >100, Deduct</i>	-38.07	
26 01 50 81-0201	EA			1'x 4', 4,800 Lumens, 3500K CCT, Curved Smooth Diffuser, Dimming LED Relight Assembly (Lithonia BLT4R 48LHE ADSMT MVOLT EZ1 LP835 NLTAIR2).....	326.32	
				<i>For nLight AIR PIR integral occupancy sensor with automatic dimming photocell for Networking Capabilities Individual Control (nLight RES7), Add</i>	191.26	
				<i>For nLight AIR radio module without sensor (nLight RIO), Add</i>	124.32	
				<i>For >25 To 50, Deduct</i>	-16.32	
				<i>For >50 To 100, Deduct</i>	-26.40	
				<i>For >100, Deduct</i>	-40.33	
26 01 50 81-0202	EA			2'x 2', 3,300 Lumens, 3500K CCT, Square Smooth Diffuser, Dimming LED Relight Assembly (Lithonia 2BLT2R 33LHE SDSMT MVOLT EZ1 LP835 NLTAIR2).....	343.27	
				<i>For nLight AIR PIR integral occupancy sensor with automatic dimming photocell for Networking Capabilities Individual Control (nLight RES7), Add</i>	191.26	
				<i>For nLight AIR radio module without sensor (nLight RIO), Add</i>	124.32	
				<i>For >25 To 50, Deduct</i>	-17.16	
				<i>For >50 To 100, Deduct</i>	-27.67	
				<i>For >100, Deduct</i>	-42.03	
26 01 50 81-0203	EA			2'x 2', 4,000 Lumens, 3500K CCT, Square Smooth Diffuser, Dimming LED Relight Assembly (Lithonia 2BLT2R F 40LHE SDSMT MVOLT EZ1 LP835 NLTAIR2).....	369.77	
				<i>For nLight AIR PIR integral occupancy sensor with automatic dimming photocell for Networking Capabilities Individual Control (nLight RES7), Add</i>	191.26	
				<i>For nLight AIR radio module without sensor (nLight RIO), Add</i>	124.32	
				<i>For >25 To 50, Deduct</i>	-18.49	
				<i>For >50 To 100, Deduct</i>	-29.66	
				<i>For >100, Deduct</i>	-44.68	
26 01 50 81-0204	EA			2'x 4', 4,000 Lumens, 3500K CCT, Curved Smooth Diffuser, Dimming LED Relight Assembly (Lithonia 2BLT4R 40LHE ADSMT MVOLT EZ1 LP835 NLTAIR2 RIO).....	398.22	
				<i>For nLight AIR PIR integral occupancy sensor with automatic dimming photocell for Networking Capabilities Individual Control (nLight RES7), Add</i>	191.26	
				<i>For nLight AIR radio module without sensor (nLight RIO), Add</i>	124.32	
				<i>For >25 To 50, Deduct</i>	-19.91	
				<i>For >50 To 100, Deduct</i>	-32.18	
				<i>For >100, Deduct</i>	-49.06	
26 01 50 81-0205	EA			2'x 4', 4,800 Lumens, 3500K CCT, Curved Smooth Diffuser, Dimming LED Relight Assembly (Lithonia 2BLT4R 48LHE ADSMT MVOLT EZ1 LP835 NLTAIR2 RIO).....	428.98	
				<i>For nLight AIR PIR integral occupancy sensor with automatic dimming photocell for Networking Capabilities Individual Control (nLight RES7), Add</i>	191.26	
				<i>For nLight AIR radio module without sensor (nLight RIO), Add</i>	124.32	
				<i>For >25 To 50, Deduct</i>	-21.45	
				<i>For >50 To 100, Deduct</i>	-34.48	
				<i>For >100, Deduct</i>	-52.14	
26 01 50 81-0206				LED Lighting Retrofits For Existing Fluorescent Fixtures (ELED Lights) <small>(26 01 50 81-0186)</small>		
				Note: Includes removal of existing fluorescent lamps, installing LED strip lighting and trim. Excludes recycling or disposal of lamps. See CSI section 02 84 16 00-0003 for ballast recycling.		
26 01 50 81-0207	EA			2' Dimmable, 20 Watts, 2900 Lumens, 4000K, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 2X2STRPD20W40).....	120.36	
				Note: Kit contains two 2-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver		
				<i>For >25 To 50, Deduct</i>	-6.02	
				<i>For >50 To 100, Deduct</i>	-10.76	
				<i>For >100, Deduct</i>	-18.97	
26 01 50 81-0208	EA			2' Dimmable, 20 Watts, 2900 Lumens, 5000K, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 2X2STRPD20W50).....	120.36	
				Note: Kit contains two 2-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver		
				<i>For >25 To 50, Deduct</i>	-6.02	
				<i>For >50 To 100, Deduct</i>	-10.76	
				<i>For >100, Deduct</i>	-18.97	
26 01 50 81-0209	EA			4' Dimmable, 32 Watts, 5000 Lumens, 4000K, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 2X4STRPD32W40).....	155.41	
				Note: Kit contains two 4-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver		
				<i>For >25 To 50, Deduct</i>	-7.77	
				<i>For >50 To 100, Deduct</i>	-13.58	
				<i>For >100, Deduct</i>	-23.24	
26 01 50 81-0210	EA			4' Dimmable, 32 Watts, 5000 Lumens, 5000K, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 2X4STRPD32W50).....	155.41	
				Note: Kit contains two 4-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver		
				<i>For >25 To 50, Deduct</i>	-7.77	
				<i>For >50 To 100, Deduct</i>	-13.58	
				<i>For >100, Deduct</i>	-23.24	
26 01 50 81-0211	EA			4' Dimmable, 35 Watts, 5500 Lumens, 3000K, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4STRPUSA035UN30).....	155.52	
				Note: Kit contains four 2-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver		
				<i>For >25 To 50, Deduct</i>	-7.78	
				<i>For >50 To 100, Deduct</i>	-13.59	
				<i>For >100, Deduct</i>	-23.25	

26 Electrical**26 01 Operation and Maintenance of Electrical Systems****26 01 50 Operation and Maintenance of Lighting**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 81-0212 EA 4' Dimmable, 35 Watts, 5500 Lumens, 3000K, Frosted Lens, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4STRPUSA035UN30F).....	168.09	
Note: Kit contains four 2-foot magnetic linear LED strips, frosted lens covers, connectors, and magnetic-mount LED driver		
For >25 To 50, Deduct	-8.40	
For >50 To 100, Deduct	-14.53	
For >100, Deduct	-24.51	
26 01 50 81-0213 EA 4' Dimmable, 35 Watts, 5500 Lumens, 3500K, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4STRPUSA035UN35).....	155.52	
Note: Kit contains four 2-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver		
For >25 To 50, Deduct	-7.78	
For >50 To 100, Deduct	-13.59	
For >100, Deduct	-23.25	
26 01 50 81-0214 EA 4' Dimmable, 35 Watts, 5500 Lumens, 3500K, Frosted Lens, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4STRPUSA035UN35F).....	168.09	
Note: Kit contains four 2-foot magnetic linear LED strips, frosted lens covers, connectors, and magnetic-mount LED driver		
For >25 To 50, Deduct	-8.40	
For >50 To 100, Deduct	-14.53	
For >100, Deduct	-24.51	
26 01 50 81-0215 EA 4' Dimmable, 35 Watts, 5500 Lumens, 4000K, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4STRPUSA035UN40).....	155.52	
Note: Kit contains four 2-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver		
For >25 To 50, Deduct	-7.78	
For >50 To 100, Deduct	-13.59	
For >100, Deduct	-23.25	
26 01 50 81-0216 EA 4' Dimmable, 35 Watts, 5500 Lumens, 4000K, Frosted Lens, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4STRPUSA035UN40F).....	168.09	
Note: Kit contains four 2-foot magnetic linear LED strips, frosted lens covers, connectors, and magnetic-mount LED driver		
For >25 To 50, Deduct	-8.40	
For >50 To 100, Deduct	-14.53	
For >100, Deduct	-24.51	
26 01 50 81-0217 EA 4' Dimmable, 35 Watts, 5500 Lumens, 5000K, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4STRPUSA035UN50).....	155.52	
Note: Kit contains four 2-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver		
For >25 To 50, Deduct	-7.78	
For >50 To 100, Deduct	-13.59	
For >100, Deduct	-23.25	
26 01 50 81-0218 EA 4' Dimmable, 35 Watts, 5500 Lumens, 5000K, Frosted Lens, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4STRPUSA035UN50F).....	168.09	
Note: Kit contains four 2-foot magnetic linear LED strips, frosted lens covers, connectors, and magnetic-mount LED driver		
For >25 To 50, Deduct	-8.40	
For >50 To 100, Deduct	-14.53	
For >100, Deduct	-24.51	
26 01 50 81-0219 EA 4' Dimmable, 46 Watts, 6800 Lumens, 5000K, Ultra High Lumen Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 2X4STRPD46W50).....	167.98	
Note: Kit contains two 4-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver		
For >25 To 50, Deduct	-8.40	
For >50 To 100, Deduct	-14.52	
For >100, Deduct	-24.50	
26 01 50 81-0220 EA 4' Dimmable, 31 Watts, 5730 Lumens, 4000K, High Efficacy Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4C3STRP031DD40).....	194.89	
Note: Kit contains two 4-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver		
For >25 To 50, Deduct	-9.74	
For >50 To 100, Deduct	-16.54	
For >100, Deduct	-27.19	
26 01 50 81-0221 EA 4' Dimmable, 31 Watts, 5730 Lumens, 4000K, Frosted Lens, High Efficacy Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4C3STRP031DD40F).....	210.60	
Note: Kit contains two 4-foot magnetic linear LED strips, frosted lens covers, connectors, and magnetic-mount LED driver		
For >25 To 50, Deduct	-10.53	
For >50 To 100, Deduct	-17.72	
For >100, Deduct	-28.76	
26 01 50 81-0222 EA 4' Dimmable, 31 Watts, 5730 Lumens, 5000K, High Efficacy Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4C3STRP031DD50).....	194.89	
Note: Kit contains two 4-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver		
For >25 To 50, Deduct	-9.74	
For >50 To 100, Deduct	-16.54	
For >100, Deduct	-27.19	
26 01 50 81-0223 EA 4' Dimmable, 31 Watts, 5730 Lumens, 5000K, Frosted Lens, High Efficacy Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4C3STRP031DD50F).....	210.60	
Note: Kit contains two 4-foot magnetic linear LED strips, frosted lens covers, connectors, and magnetic-mount LED driver		
For >25 To 50, Deduct	-10.53	
For >50 To 100, Deduct	-17.72	
For >100, Deduct	-28.76	
26 01 50 81-0224 EA 20 Watts, Emergency Battery Backup, For Use With 2' And 4' Linear LED Retrofit Kits (ELEDLIGHTS BLD-AM20D-480800).....	196.16	
Note: 90-minute emergency battery with DIP switch-selectable power output of 10 Watts, 15 Watts, or 20 Watts		
For >25 To 50, Deduct	-9.81	
For >50 To 100, Deduct	-15.10	
For >100, Deduct	-21.16	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 81-0225 EA 20 Watts, Emergency Battery Backup, For Use With 2' And 4' Linear LED Retrofit Kits (ELEDLIGHTS EM-HM-20W).....	180.25	
Note: 90-minute emergency battery with power output of 20 Watts		
For >25 To 50, Deduct	-9.01	
For >50 To 100, Deduct	-13.90	
For >100, Deduct	-19.57	
26 01 50 81-0226 EA 8' Dimmable, 46 Watts, 7400 Lumens, 5000K, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4X4STRPD46W50).....	202.08	
Note: Kit contains four 4-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver		
For >25 To 50, Deduct	-10.10	
For >50 To 100, Deduct	-17.66	
For >100, Deduct	-30.22	
26 01 50 81-0227 EA 8' Dimmable, 49 Watts, 6680 Lumens, 5000K, Frosted Lens, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4X4STRPD49W50F).....	209.94	
Note: Kit contains four 4-foot magnetic linear LED strips, frosted lens covers, connectors, and magnetic-mount LED driver		
For >25 To 50, Deduct	-10.50	
For >50 To 100, Deduct	-18.25	
For >100, Deduct	-31.01	
26 01 50 81-0228 EA 8' Dimmable, 64 Watts, 11850 Lumens, 4000K, High Efficacy Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4C3STRP031DD40).....	287.14	
Note: Kit contains four 4-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver		
For >25 To 50, Deduct	-14.36	
For >50 To 100, Deduct	-24.04	
For >100, Deduct	-38.73	
26 01 50 81-0229 EA 8' Dimmable, 64 Watts, 11850 Lumens, 4000K, Frosted Lens, High Efficacy Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4C3STRP031DD40F).....	318.58	
Note: Kit contains four 4-foot magnetic linear LED strips, frosted lens covers, connectors, and magnetic-mount LED driver		
For >25 To 50, Deduct	-15.93	
For >50 To 100, Deduct	-26.40	
For >100, Deduct	-41.87	
26 01 50 81-0230 EA 8' Dimmable, 64 Watts, 11850 Lumens, 5000K, High Efficacy Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4C3STRP031DD50).....	287.14	
Note: Kit contains four 4-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver		
For >25 To 50, Deduct	-14.36	
For >50 To 100, Deduct	-24.04	
For >100, Deduct	-38.73	
26 01 50 81-0231 EA 8' Dimmable, 64 Watts, 11850 Lumens, 5000K, Frosted Lens, High Efficacy Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4C3STRP031DD50F).....	318.58	
Note: Kit contains four 4-foot magnetic linear LED strips, frosted lens covers, connectors, and magnetic-mount LED driver		
For >25 To 50, Deduct	-15.93	
For >50 To 100, Deduct	-26.40	
For >100, Deduct	-41.87	

26 05 Common Work Results for Electrical ⁽²⁶⁾

26 05 13 Medium-Voltage Cables ^(26 05)

26 05 13 16 Medium-Voltage, Single-and Multi-Conductor Cables ^(26 05 13)

26 05 13 16-0001 Wire And Cable ^(26 05 13 16)

Note: Pulled in conduit except as noted. Includes pull wires, pulling branch circuit conductors, testing, and splicing (#8 and lighter). All conductors are copper except as otherwise noted. No special set-up is required. Excludes terminations.

26 05 13 16-0002 5 KV Cable ^(26 05 13 16-0001)

26 05 13 16-0003 Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation, Installed In Duct ^(26 05 13 16-0002)

26 05 13 16-0004 MLF #6 AWG, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	4,227.30	1,175.05
26 05 13 16-0005 MLF #4 AWG, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	4,951.26	1,283.04
26 05 13 16-0006 MLF #2 AWG, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	5,869.44	1,449.64
26 05 13 16-0007 MLF 1/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	7,570.15	1,786.01
26 05 13 16-0008 MLF 2/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	8,611.02	2,011.21
26 05 13 16-0009 MLF 3/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	10,453.98	2,232.39
26 05 13 16-0010 MLF 4/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	11,764.83	2,508.32
26 05 13 16-0011 MLF 250 MCM, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	13,874.84	2,790.62
26 05 13 16-0012 MLF 350 MCM, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	16,212.60	3,331.93
26 05 13 16-0013 MLF 500 MCM, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	20,301.53	3,916.60
26 05 13 16-0014 MLF 750 MCM, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	29,654.43	4,616.14
26 05 13 16-0015 MLF 1,000 MCM, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	39,014.72	5,315.34

26 05 13 16-0016 Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation, Direct Burial ^(26 05 13 16-0002)

Note: Excludes excavation.

26 05 13 16-0017 MLF #6 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	4,080.43
26 05 13 16-0018 MLF #4 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	4,534.29
26 05 13 16-0019 MLF #2 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	5,035.91
26 05 13 16-0020 MLF 1/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	6,171.81
26 05 13 16-0021 MLF 2/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	6,649.54



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 13 16-0022 MLF 3/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	8,214.86	
26 05 13 16-0023 MLF 4/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	8,835.91	
26 05 13 16-0024 MLF 250 MCM, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	10,522.56	
26 05 13 16-0025 MLF 350 MCM, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	11,853.60	
26 05 13 16-0026 MLF 500 MCM, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	14,412.98	
26 05 13 16-0027 Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation, Installed On Poles (Aerial) (26 05 13 16-0002)		
26 05 13 16-0028 MLF #6 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	3,236.03	742.20
26 05 13 16-0029 MLF #4 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	3,830.74	795.79
26 05 13 16-0030 MLF #2 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	4,884.19	1,006.34
26 05 13 16-0031 MLF 1/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	6,308.80	1,221.68
26 05 13 16-0032 MLF 2/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	7,343.67	1,434.14
26 05 13 16-0033 MLF 3/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	9,173.75	1,640.09
26 05 13 16-0034 MLF 4/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	10,484.05	1,902.97
26 05 13 16-0035 MLF 250 MCM, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	13,176.37	2,394.05
26 05 13 16-0036 MLF 350 MCM, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	15,826.06	3,029.22
26 05 13 16-0037 MLF 500 MCM, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	20,490.37	3,805.93
26 05 13 16-0038 5 KV Non-Shielded Single Copper Conductor (26 05 13 16-0002)		
26 05 13 16-0039 MLF 1/0 AWG, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	9,078.16	2,341.73
26 05 13 16-0040 MLF 2/0 AWG, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	10,290.74	2,375.38
26 05 13 16-0041 MLF 3/0 AWG, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	11,503.34	2,409.03
26 05 13 16-0042 MLF 4/0 AWG, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	11,958.58	2,462.28
26 05 13 16-0043 MLF 350 MCM, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	14,105.16	2,556.20
26 05 13 16-0044 MLF 500 MCM, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	19,592.75	2,678.93
26 05 13 16-0045 MLF 750 MCM, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	29,864.03	3,348.67
26 05 13 16-0046 MLF 1,000 MCM, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	34,803.82	4,464.95
26 05 13 16-0047 Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation, Installed In Duct (26 05 13 16-0002)		
26 05 13 16-0048 MLF #6 AWG, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	4,459.47	1,175.05
26 05 13 16-0049 MLF #4 AWG, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	5,265.13	1,283.04
26 05 13 16-0050 MLF #2 AWG, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	6,273.60	1,449.64
26 05 13 16-0051 MLF #1 AWG, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	7,201.12	1,617.74
26 05 13 16-0052 MLF 1/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	8,129.10	1,786.01
26 05 13 16-0053 MLF 2/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	9,255.96	2,011.21
26 05 13 16-0054 MLF 3/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	11,331.09	2,232.39
26 05 13 16-0055 MLF 4/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	12,753.73	2,508.32
26 05 13 16-0056 MLF 250 MCM, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	15,116.56	2,790.62
26 05 13 16-0057 MLF 350 MCM, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	17,631.46	3,331.93
26 05 13 16-0058 MLF 500 MCM, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	22,193.34	3,916.60
26 05 13 16-0059 MLF 750 MCM, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	32,915.72	4,616.14
26 05 13 16-0060 MLF 1,000 MCM, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	43,645.46	5,315.34
26 05 13 16-0061 Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation, Direct Burial (26 05 13 16-0002)		
Note: Excludes excavation.		
26 05 13 16-0062 MLF #6 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	4,312.61	
26 05 13 16-0063 MLF #4 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	4,848.16	
26 05 13 16-0064 MLF #2 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	5,440.07	
26 05 13 16-0065 MLF #1 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	6,086.05	
26 05 13 16-0066 MLF 1/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	6,730.75	
26 05 13 16-0067 MLF 2/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	7,294.48	
26 05 13 16-0068 MLF 3/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	9,091.97	
26 05 13 16-0069 MLF 4/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	9,824.81	
26 05 13 16-0070 MLF 250 MCM, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	11,764.28	
26 05 13 16-0071 MLF 350 MCM, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	13,072.47	
26 05 13 16-0072 MLF 500 MCM, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	16,304.80	
26 05 13 16-0073 Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation, Installed On Poles (Aerial) (26 05 13 16-0002)		
26 05 13 16-0074 MLF #6 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	3,468.20	742.20
26 05 13 16-0075 MLF #4 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	4,144.61	795.79
26 05 13 16-0076 MLF #2 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	5,288.35	1,006.34
26 05 13 16-0077 MLF #1 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	6,076.07	1,113.22
26 05 13 16-0078 MLF 1/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	6,867.75	1,221.68
26 05 13 16-0079 MLF 2/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	7,988.61	1,434.14
26 05 13 16-0080 MLF 3/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	10,050.86	1,640.09
26 05 13 16-0081 MLF 4/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	11,472.95	1,902.97
26 05 13 16-0082 MLF 250 MCM, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	14,418.09	2,394.05
26 05 13 16-0083 MLF 350 MCM, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	17,244.93	3,029.22
26 05 13 16-0084 MLF 500 MCM, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	22,382.18	3,805.93



	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 13 16-0085	15 KV Cable <small>(26 05 13 16-0001)</small>			
26 05 13 16-0086	Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable <small>(26 05 13 16-0085)</small>			
26 05 13 16-0087	Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct <small>(26 05 13 16-0086)</small>			
26 05 13 16-0088	MLF #4 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct	9,040.60	2,341.73	
26 05 13 16-0089	MLF #2 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct	9,688.78	2,341.73	
26 05 13 16-0090	MLF #1 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct	9,936.02	2,341.73	
26 05 13 16-0091	MLF 1/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct	10,741.44	2,341.73	
26 05 13 16-0092	MLF 2/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct	11,505.91	2,341.73	
26 05 13 16-0093	MLF 3/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct	13,045.52	2,444.36	
26 05 13 16-0094	MLF 4/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct	13,345.85	2,444.36	
26 05 13 16-0095	MLF 250 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct	15,263.87	2,556.20	
26 05 13 16-0096	MLF 350 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct	17,174.66	2,616.14	
26 05 13 16-0097	MLF 500 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct	21,045.57	2,946.83	
26 05 13 16-0098	Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial <small>(26 05 13 16-0086)</small>			
	Note: Excludes excavation.			
26 05 13 16-0099	MLF #1 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	7,417.04		
26 05 13 16-0100	MLF 1/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	8,222.46		
26 05 13 16-0101	MLF 2/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	8,986.93		
26 05 13 16-0102	MLF 3/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	10,558.91		
26 05 13 16-0103	MLF 4/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	10,859.23		
26 05 13 16-0104	MLF 250 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	12,916.13		
26 05 13 16-0105	MLF 350 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	14,830.61		
26 05 13 16-0106	MLF 500 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	18,366.65		
26 05 13 16-0107	Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial) <small>(26 05 13 16-0086)</small>			
26 05 13 16-0108	MLF #1 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	6,861.92	1,060.26	
26 05 13 16-0109	MLF 1/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	8,090.67	1,221.68	
26 05 13 16-0110	MLF 2/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	9,412.28	1,434.14	
26 05 13 16-0111	MLF 3/0 AWG, XLP, 15 KV, Installed On Poles (Aerial), Shielded, Single Copper Conductor, 133% Insulation Cable	11,235.69	1,640.09	
26 05 13 16-0112	MLF 4/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	12,225.26	1,902.97	
26 05 13 16-0113	MLF 250 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	14,682.69	2,215.30	
26 05 13 16-0114	MLF 350 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	17,403.50	2,581.39	
26 05 13 16-0115	MLF 500 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	21,541.76	2,998.53	
26 05 13 16-0116	Ethylene-Propylene Rubber (EPR) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable <small>(26 05 13 16-0085)</small>			
26 05 13 16-0117	Ethylene-Propylene Rubber (EPR), 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct <small>(26 05 13 16-0116)</small>			
26 05 13 16-0118	MLF #4 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct	9,614.13	2,341.73	
26 05 13 16-0119	MLF #2 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct	10,378.98	2,341.73	
26 05 13 16-0120	MLF #1 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct	10,670.73	2,341.73	
26 05 13 16-0121	MLF 1/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct	11,621.13	2,341.73	
26 05 13 16-0122	MLF 2/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct	12,523.20	2,341.73	
26 05 13 16-0123	MLF 3/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct	14,293.79	2,444.36	
26 05 13 16-0124	MLF 4/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct	14,648.17	2,444.36	
26 05 13 16-0125	MLF 250 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct	16,861.07	2,556.20	
26 05 13 16-0126	MLF 350 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct	19,088.83	2,616.14	
26 05 13 16-0127	MLF 500 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct	23,507.70	2,946.83	
26 05 13 16-0128	Ethylene-Propylene Rubber (EPR), 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial <small>(26 05 13 16-0116)</small>			
	Note: Excludes excavation.			
26 05 13 16-0129	MLF #1 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	8,151.75		
26 05 13 16-0130	MLF 1/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	9,102.14		
26 05 13 16-0131	MLF 2/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	10,004.21		
26 05 13 16-0132	MLF 3/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	11,807.18		
26 05 13 16-0133	MLF 4/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	12,161.55		
26 05 13 16-0134	MLF 250 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	14,508.67		
26 05 13 16-0135	MLF 350 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	16,734.28		
26 05 13 16-0136	MLF 500 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	20,828.78		
26 05 13 16-0137	Ethylene-Propylene Rubber (EPR), 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial) <small>(26 05 13 16-0116)</small>			

26 Electrical
26 05 Common Work Results for Electrical
26 05 13 Medium-Voltage Cables



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 13 16-0138 MLF #1 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	7,596.63	1,060.26
26 05 13 16-0139 MLF 1/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	8,970.35	1,221.68
26 05 13 16-0140 MLF 2/0 AWG, EPEPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial) ...	10,429.56	1,434.14
26 05 13 16-0141 MLF 3/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	12,483.96	1,640.09
26 05 13 16-0142 MLF 4/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	13,527.58	1,902.97
26 05 13 16-0143 MLF 250 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	16,279.88	2,215.30
26 05 13 16-0144 MLF 350 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	19,317.67	2,581.39
26 05 13 16-0145 MLF 500 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	24,003.89	2,998.53
26 05 13 16-0146 15 KV Non-Shielded Single Copper Conductor (26 05 13 16-0085)		
26 05 13 16-0147 MLF 1/0 AWG, 15 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	12,507.62	2,349.93
26 05 13 16-0148 MLF 2/0 AWG, 15 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	10,989.81	2,406.10
26 05 13 16-0149 MLF 3/0 AWG, 15 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	15,981.95	2,462.28
26 05 13 16-0150 MLF 350 MCM, 15 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	21,617.47	2,626.36
26 05 13 16-0151 Shielded, Armored Copper, 15 KV, 3 Conductor Cable (26 05 13 16-0085) Note: Laid in cable tray or hung in vertical cable shaft.		
26 05 13 16-0152 Galvanized Steel Interlocked Armor Cable (26 05 13 16-0151)		
26 05 13 16-0153 LF 3 Conductors, #2 AWG, TC, 15 KV, Galvanized Armored Shielded Cable, Laid In Cable Tray Or Hung Vertically.....	62.50	17.92
26 05 13 16-0154 LF 3 Conductors, 1/0 AWG, TC, 15 KV, Galvanized Armored Shielded Cable, Laid In Cable Tray Or Hung Vertically.....	73.67	19.09
26 05 13 16-0155 Aluminum Interlocked Armor Cable (26 05 13 16-0151)		
26 05 13 16-0156 LF 3 Conductors, #2 AWG, TC, 15 KV, Aluminum Armored Shielded Cable, Laid In Cable Tray Or Hung Vertically.....	62.50	17.92
26 05 13 16-0157 LF 3 Conductor, 1/0 AWG, TC, 15 KV, Aluminum Armored Shielded Cable, Laid In Cable Tray Or Hung Vertically.....	73.67	19.09
26 05 13 16-0158 Type URD, 15 KV Primary Concentric UD Cable (26 05 13 16-0085) Note: 0.175" XLPE insulation, copper conductor.		
26 05 13 16-0159 MLF #4 AWG, Type URD (XLPE), 15 KV, Shielded, Single Conductor Cable, Installed In Conduit.....	4,482.84	1,175.05
26 05 13 16-0160 MLF #2 AWG, Type URD (XLPE), 15 KV, Shielded, Single Conductor Cable, Installed In Conduit.....	5,296.72	1,283.04
26 05 13 16-0161 MLF #1 AWG, Type URD (XLPE), 15 KV, Shielded, Single Conductor Cable, Installed In Conduit.....	6,314.28	1,449.64
26 05 13 16-0162 MLF 1/0 AWG, Type URD (XLPE), 15 KV, Shielded, Single Conductor Cable, Installed In Conduit.....	8,173.47	1,781.15
26 05 13 16-0163 MLF 2/0 AWG, Type URD (XLPE), 15 KV, Shielded, Single Conductor Cable, Installed In Conduit.....	9,305.81	2,005.19
26 05 13 16-0164 MLF 3/0 AWG, Type URD (XLPE), 15 KV, Shielded, Single Conductor Cable, Installed In Conduit.....	11,419.36	2,232.39
26 05 13 16-0165 MLF 4/0 AWG, Type URD (XLPE), 15 KV, Shielded, Single Conductor Cable, Installed In Conduit.....	12,829.85	2,498.95
26 05 13 16-0166 15 KV, URD Copper Cable, Direct Burial (26 05 13 16-0085)		
26 05 13 16-0167 MLF 3 Conductors, #6 AWG, 15 KV, URD Copper Cable, Direct Burial.....	19,928.84	
26 05 13 16-0168 Wire Connections (26 05 13 16-0001)		
26 05 13 16-0169 Medium Voltage Up To 5 KV (26 05 13 16-0168)		
26 05 13 16-0170 Shielded One Conductor Cable Splice (26 05 13 16-0169)		
26 05 13 16-0171 EA #6 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV.....	469.56	153.82
26 05 13 16-0172 EA #2 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV.....	626.61	153.82
26 05 13 16-0173 EA 1/0 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV.....	626.61	153.82
26 05 13 16-0174 EA 2/0 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV.....	672.39	184.58
26 05 13 16-0175 EA 3/0 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV.....	672.39	184.58
26 05 13 16-0176 EA 4/0 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV.....	672.39	184.58
26 05 13 16-0177 EA 250 MCM Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV.....	733.44	215.35
26 05 13 16-0178 EA 350 MCM Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV.....	733.44	215.35
26 05 13 16-0179 EA 500 MCM Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV.....	733.44	215.35
26 05 13 16-0180 Cable Termination Without Stress Cone (26 05 13 16-0169)		
26 05 13 16-0181 EA #6 To 4/0 AWG Cable Termination Without Stress Cone, Medium Voltage To 5 KV.....	699.58	184.58
26 05 13 16-0182 EA 250 To 500 MCM Cable Termination Without Stress Cone, Medium Voltage To 5 KV.....	807.45	215.35
26 05 13 16-0183 Cable Termination With Stress Cone (26 05 13 16-0169)		
26 05 13 16-0184 EA #6 To 4/0 AWG Cable Termination With Stress Cone, Medium Voltage To 5 KV.....	2,082.12	369.17
26 05 13 16-0185 EA 250 To 500 MCM Cable Termination With Stress Cone, Medium Voltage To 5 KV.....	2,862.35	507.62
26 05 13 16-0186 Connect To Pothead, Pothead Included (26 05 13 16-0169)		
26 05 13 16-0187 EA #6 To 4/0 AWG Connection To Pothead (Included) Medium Voltage To 5 KV.....	2,176.97	369.17
26 05 13 16-0188 EA 250 To 500 MCM Connection To Pothead (Included) Medium Voltage To 5 KV.....	2,786.32	423.01
26 05 13 16-0189 Two Conductor Pothead (26 05 13 16-0169) Note: Includes 5 KV pothead.		
26 05 13 16-0190 EA #6 To 4/0 AWG, Two Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV.....	1,596.88	507.62
26 05 13 16-0191 EA 250 To 350 MCM, Two Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV.....	2,138.95	646.05



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 13 16-0192 EA 400 To 700 MCM, Two Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV	3,262.48	732.50
26 05 13 16-0193 EA 750 MCM, Two Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV.....	5,304.14	854.63
26 05 13 16-0194 EA 1,000 MCM, Two Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV	9,753.72	1,281.80
26 05 13 16-0195 Three Conductor Pothead <small>(26 05 13 16-0169)</small> Note: Includes 5 KV pothead.		
26 05 13 16-0196 EA #6 To 4/0 AWG, Three Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV.....	6,471.13	738.35
26 05 13 16-0197 EA 250 To 500 MCM, Three Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV.....	7,086.10	861.40
26 05 13 16-0198 Copper Cable Splice, Crimp Compression Connection <small>(26 05 13 16-0169)</small> Note: For bare wire.		
26 05 13 16-0199 EA #6 AWG Crimp Compression Connection For Bare Copper Wire.....	98.55	
26 05 13 16-0200 EA #4 AWG Crimp Compression Connection For Bare Copper Wire.....	108.97	
26 05 13 16-0201 EA #3 AWG Crimp Compression Connection For Bare Copper Wire.....	127.05	
26 05 13 16-0202 EA #2 AWG Crimp Compression Connection For Bare Copper Wire.....	143.79	
26 05 13 16-0203 EA #1 AWG Crimp Compression Connection For Bare Copper Wire.....	162.40	
26 05 13 16-0204 EA 1/0 AWG Crimp Compression Connection For Bare Copper Wire.....	180.28	
26 05 13 16-0205 EA 2/0 AWG Crimp Compression Connection For Bare Copper Wire.....	197.85	
26 05 13 16-0206 EA 3/0 AWG Crimp Compression Connection For Bare Copper Wire.....	216.68	
26 05 13 16-0207 EA 4/0 AWG Crimp Compression Connection For Bare Copper Wire.....	234.75	
26 05 13 16-0208 EA 250 MCM Crimp Compression Connection For Bare Copper Wire.....	253.39	
26 05 13 16-0209 EA 300 MCM Crimp Compression Connection For Bare Copper Wire.....	272.78	
26 05 13 16-0210 EA 350 MCM Crimp Compression Connection For Bare Copper Wire.....	290.39	
26 05 13 16-0211 EA 400 MCM Crimp Compression Connection For Bare Copper Wire.....	328.68	
26 05 13 16-0212 EA 500 MCM Crimp Compression Connection For Bare Copper Wire.....	368.73	
26 05 13 16-0213 Aluminum Cable Splice, Crimp Compression Connection <small>(26 05 13 16-0169)</small> Note: For bare wire.		
26 05 13 16-0214 EA #6 AWG Crimp Compression Connection For Bare Aluminum Wire	101.93	
26 05 13 16-0215 EA #4 AWG Crimp Compression Connection For Bare Aluminum Wire	110.84	
26 05 13 16-0216 EA #2 AWG Crimp Compression Connection For Bare Aluminum Wire	149.96	
26 05 13 16-0217 EA #1 AWG Crimp Compression Connection For Bare Aluminum Wire	178.10	
26 05 13 16-0218 EA 1/0 AWG Crimp Compression Connection For Bare Aluminum Wire	195.09	
26 05 13 16-0219 EA 2/0 AWG Crimp Compression Connection For Bare Aluminum Wire	212.00	
26 05 13 16-0220 EA 3/0 AWG Crimp Compression Connection For Bare Aluminum Wire	233.11	
26 05 13 16-0221 EA 4/0 AWG Crimp Compression Connection For Bare Aluminum Wire	252.13	
26 05 13 16-0222 EA 250 MCM Crimp Compression Connection For Bare Aluminum Wire	270.35	
26 05 13 16-0223 EA 300 MCM Crimp Compression Connection For Bare Aluminum Wire	289.36	
26 05 13 16-0224 EA 350 MCM Crimp Compression Connection For Bare Aluminum Wire	307.80	
26 05 13 16-0225 EA 400 MCM Crimp Compression Connection For Bare Aluminum Wire	353.62	
26 05 13 16-0226 EA 500 MCM Crimp Compression Connection For Bare Aluminum Wire	399.85	
26 05 13 16-0227 15 KV <small>(26 05 13 16-0168)</small>		
26 05 13 16-0228 Single Conductor Pothead On Racks <small>(26 05 13 16-0227)</small> Note: Includes pothead.		
26 05 13 16-0229 EA #2 To 4/0 AWG, Single Conductor, 15 KV Pothead (Included), On Racks.....	1,940.79	646.05
26 05 13 16-0230 EA 250 To 500 MCM, Single Conductor, 15 KV Pothead (Included), On Racks.....	2,475.74	799.88
26 05 13 16-0231 Two Conductor Pothead On Rack <small>(26 05 13 16-0227)</small> Note: Includes pothead.		
26 05 13 16-0232 EA #2 To 4/0 AWG, Two Conductors, 15 KV Pothead (Included), On Racks	2,860.79	984.46
26 05 13 16-0233 EA 250 To 500 MCM, Two Conductors, 15 KV Pothead (Included), On Racks	3,439.57	1,169.04
26 05 13 16-0234 Three Conductor Pothead On Rack <small>(26 05 13 16-0227)</small> Note: Includes pothead.		
26 05 13 16-0235 EA #2 To 4/0 AWG, Three Conductors, 15 KV Pothead (Included), On Racks.....	3,653.41	1,276.72
26 05 13 16-0236 EA 250 To 500 MCM, Three Conductors, 15 KV Pothead (Included), On Racks.....	4,551.49	1,599.74
26 05 13 16-0237 Stress Relief Cone On Rack <small>(26 05 13 16-0227)</small>		
26 05 13 16-0238 EA #2 To 4/0 AWG Stress Relief Cone, On Rack	1,826.19	646.05
26 05 13 16-0239 EA 250 To 500 MCM Stress Relief Cone, On Rack	2,346.90	799.88
26 05 13 16-0240 Grounded, Shielded Cable Splice <small>(26 05 13 16-0227)</small>		
26 05 13 16-0241 EA #2 To 4/0 AWG Cable Splice, Grounded, Shielded, 15 KV	1,259.84	476.84
26 05 13 16-0242 EA 250 To 500 MCM Cable Splice, Grounded, Shielded, 15 KV	1,614.33	615.28
26 05 13 16-0243 EA 3/0 To 500 MCM 15 KV Splice Kit, Cable Splice, Grounded, Shielded, Universal Mechanical Type CE - CE 2-Way	7,714.33	1,692.04
26 05 13 16-0244 EA 3/0 To 500 MCM 15 KV Splice Kit, Cable Splice, Grounded, Shielded, Universal Mechanical Type CE - CE - CE 3-Way.....	9,894.63	1,845.86
26 05 13 16-0245 Cable Termination <small>(26 05 13 16-0227)</small>		

26 Electrical
26 05 Common Work Results for Electrical
26 05 13 Medium-Voltage Cables



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 13 16-0246 EA #2 To 3/0 AWG Cable Termination 15 KV <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	834.18 161.57	269.19
26 05 13 16-0247 EA 4/0 To 250 MCM Cable Termination 15 KV <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,054.11 207.66	346.09
26 05 13 16-0248 EA 350 To 500 MCM Cable Termination 15 KV <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,306.62 253.81	423.01
26 05 13 16-0249 EA #2 To 3/0 AWG Cable Elbow Termination 15 KV <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	530.78 92.30	153.82
26 05 13 16-0250 Stress Cones, 5-15 KV, 4 Skirted <small>(26 05 13 16-0227)</small>		
26 05 13 16-0251 EA #4 To 1/0 AWG Stress Cones, 5-15 KV, 4 Skirted	1,060.06	199.97
26 05 13 16-0252 EA 2/0 To 3/0 AWG Stress Cones, 5-15 KV, 4 Skirted	1,207.17	221.02
26 05 13 16-0253 EA 4/0 To 350 MCM Stress Cones, 5-15 KV, 4 Skirted	1,432.94	241.87
26 05 13 16-0254 EA 400 To 500 MCM Stress Cones, 5-15 KV, 4 Skirted	1,841.91	278.67
26 05 13 16-0255 Stress Cones, 5-15 KV, 6 Skirted <small>(26 05 13 16-0227)</small>		
26 05 13 16-0256 EA #4 To 1/0 AWG Stress Cones, 5-15 KV, 6 Skirted	2,120.15	400.62
26 05 13 16-0257 EA 2/0 To 3/0 AWG Stress Cones, 5-15 KV, 6 Skirted	2,414.63	442.02
26 05 13 16-0258 EA 4/0 To 350 MCM Stress Cones, 5-15 KV, 6 Skirted	2,847.95	474.76
26 05 13 16-0259 EA 400 To 500 MCM Stress Cones, 5-15 KV, 6 Skirted	3,683.82	557.32
26 05 13 16-0260 35 KV <small>(26 05 13 16-0168)</small>		
26 05 13 16-0261 35 KV One Conductor Splice <small>(26 05 13 16-0260)</small>		
26 05 13 16-0262 EA #1 Stranded To 4/0 Stranded, 35 KV, Cable Splicing	3,147.57	
26 05 13 16-0263 Cable Termination <small>(26 05 13 16-0260)</small>		
26 05 13 16-0264 EA #2 To 3/0 AWG Cable Termination, 35 KV	726.37	184.74
26 05 13 16-0265 EA 3/0 AWG To 250 MCM, 35 KV, Cable Termination	994.08	278.73
26 05 13 16-0266 EA 350 To 500 MCM Cable Termination 35 KV	1,152.06	298.11
26 05 13 16-0267 EA #2 To 3/0 AWG Cable Elbow Termination 35 KV	576.92	153.82
26 05 13 16-0268 70 KV <small>(26 05 13 16-0168)</small>		
26 05 13 16-0269 Cable Splice <small>(26 05 13 16-0268)</small>		
26 05 13 16-0270 EA 350 MCM, 70 KV, Cable Splicing	16,448.71	
26 05 13 16-0271 EA #2 To 4/0, 70 KV, Cable Splicing	3,263.50	

26 05 19 Low-Voltage Electrical Power Conductors and Cables (26 05)

26 05 19 13 Undercarpet Electrical Power Cables (26 05 19)

26 05 19 13-0001 Under Carpet Power System (26 05 19 13)

Note: Includes laying out, floor prep, taping, drill floor, folds, identifying, tagging and testing

26 05 19 13-0002 LF 3-Conductor, #12 Flat Cable With Attached Bottom Shield	6.56	0.70
26 05 19 13-0003 LF Steel, Top Shield	14.09	0.70
26 05 19 13-0004 EA 3-Conductor, Splice	40.57	11.94
26 05 19 13-0005 EA Splice Top Shield For 3 Conductor	12.61	5.62
26 05 19 13-0006 EA 3-Conductor, Tap	50.22	14.06
26 05 19 13-0007 EA Insulating Patch, Splice Tap And End	74.18	11.94
26 05 19 13-0008 EA 3-Conductor, Transition Block Assembly	48.08	7.02
26 05 19 13-0009 EA Single, Direct Connected, Receptacle With Box	145.53	22.49
26 05 19 13-0010 EA Dual, Direct Connected, Receptacle With Box	241.57	35.14
26 05 19 13-0011 EA Floor Mounted Box With Cover	237.87	28.11
26 05 19 13-0012 LF 5-Conductor, #12 Cable With Attached Bottom Shield	10.28	0.70
26 05 19 13-0013 LF Steel, Top Shield For 5-Conductor Cable	10.20	0.70
26 05 19 13-0014 EA 5-Conductor, Splice	41.04	11.94
26 05 19 13-0015 EA 5-Conductor, Transition Block Assembly	62.67	7.02
26 05 19 13-0016 EA Box, Wall, Flush With Cover	113.21	28.11
26 05 19 13-0017 EA Telephone, Transition Fitting Wall Box	76.55	23.19
26 05 19 13-0018 EA RJ-45, Telephone Fitting With Duplex Jack And Cover	99.16	26.70
26 05 19 13-0019 EA Miniature Telephone With Duplex RJ-45	42.28	10.54
26 05 19 13-0020 LF 4-Pair, Level 5, Under Carpet Telephone Wire	2.49	0.70
26 05 19 13-0021 EA BNC, Coax Plug, Connector	36.07	14.06
26 05 19 13-0022 EA TNC, Coax Plug, Connector	36.07	14.06
26 05 19 13-0023 CLF Under Carpet Power System; Flat RG A/U 59, 75 Ohm, RG A/U 62, 93 Ohm, RG A/U 58, 50 Ohm	188.17	70.27

26 05 19 16 Low-Voltage, Single-and Multi-Conductor Cables (26 05 19)

26 05 19 16-0001 Cable Installation Methods (26 05 19 16)

26 05 19 16-0002 Pull Cord (26 05 19 16-0001)

Note: Left in conduit for others to pull cable. Not to be used when contractor has priced new wire in a conduit. Priced when owner wants a pull cord left in a conduit for owner to pull wire at a later time.

26 05 19 16-0003 LF Pull String Installed To Remain In Place, In Existing Conduit	0.48	
---	------	--



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0004 LF Pull String Installed To Remain In Place, In New Conduits	0.25	
26 05 19 16-0005 LF 1/4" Nylon Pull Cord Installed To Remain In Place, In Existing Conduit	0.79	
26 05 19 16-0006 LF 1/4" Nylon Pull Cord Installed To Remain In Place, In New Conduits.....	0.49	
26 05 19 16-0007 Bore Conduit Into Dirt Or Sand <small>(26 05 19 16-0001)</small>		
Note: For installation under roads, driveways or other structures up to 20'.		
26 05 19 16-0008 LF Bore 1" To 4" Conduit Into Dirt Or Sand	3.20	
26 05 19 16-0009 LF Bore 5" To 8" Conduit Into Dirt Or Sand	4.08	
26 05 19 16-0010 EA Boring Minimum Set-Up Charge	448.56	
Note: For projects where the total boring charge is less than the minimum set-up charge. Use this item exclusively. This item should not be used in conjunction with any other items in this section.		
26 05 19 16-0011 Wire and Cable <small>(26 05 19 16)</small>		
Note: Pulled in conduit except as noted. Includes pull wires, pulling branch circuit conductors, splicing (#8 and lighter), identifying, tagging and testing. All conductors are copper except as otherwise noted. No special set-up is required. For tasks installed in conduit, tasks exclude conduit. Excludes terminations.		
26 05 19 16-0012 Multi-Conductor Cords, Cables And Associated Equipment <small>(26 05 19 16-0011)</small>		
26 05 19 16-0013 Multi-Conductor Cords <small>(26 05 19 16-0012)</small>		
Note: Includes installation in cable tray, surface mounting or installation between junction boxes. Excludes strain relief devices, plugs and connector bodies.		
26 05 19 16-0014 Multi-Conductor Type SOOW And SJOOW Cord <small>(26 05 19 16-0013)</small>		
Note: Includes ethylene propylene diene monomer (EPDM) rubber insulation.		
26 05 19 16-0015 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord <small>(26 05 19 16-0014)</small>		
26 05 19 16-0016 #18, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord <small>(26 05 19 16-0015)</small>		
26 05 19 16-0017 LF 2 Conductors, #18 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.40	0.61
26 05 19 16-0018 LF 3 Conductors, #18 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.44	0.61
26 05 19 16-0019 LF 4 Conductors, #18 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.57	0.61
26 05 19 16-0020 #16, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord <small>(26 05 19 16-0015)</small>		
26 05 19 16-0021 LF 2 Conductors, #16 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.62	0.61
26 05 19 16-0022 LF 3 Conductors, #16 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.70	0.61
26 05 19 16-0023 LF 4 Conductors, #16 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.81	0.61
26 05 19 16-0024 #14, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord <small>(26 05 19 16-0015)</small>		
26 05 19 16-0025 LF 2 Conductors, #14 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.77	0.61
26 05 19 16-0026 LF 3 Conductors, #14 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.89	0.61
26 05 19 16-0027 LF 4 Conductors, #14 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	2.14	0.61
26 05 19 16-0028 #12, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord <small>(26 05 19 16-0015)</small>		
26 05 19 16-0029 LF 2 Conductors, #12 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.98	0.61
26 05 19 16-0030 LF 3 Conductors, #12 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	2.13	0.61
26 05 19 16-0031 LF 4 Conductors, #12 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	2.34	0.61
26 05 19 16-0032 #10, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord <small>(26 05 19 16-0015)</small>		
26 05 19 16-0033 LF 2 Conductors, #10 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	2.48	0.77
26 05 19 16-0034 LF 3 Conductors, #10 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	2.59	0.77
26 05 19 16-0035 LF 4 Conductors, #10 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	2.74	0.77
26 05 19 16-0036 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord <small>(26 05 19 16-0014)</small>		
26 05 19 16-0037 #18, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord <small>(26 05 19 16-0036)</small>		
26 05 19 16-0038 LF 2 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	1.44	0.61
26 05 19 16-0039 LF 3 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	1.53	0.61
26 05 19 16-0040 LF 4 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	1.65	0.61
26 05 19 16-0041 LF 5 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	2.68	0.83
26 05 19 16-0042 LF 6 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	2.90	0.85
26 05 19 16-0043 LF 7 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	3.06	0.88
26 05 19 16-0044 LF 8 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	3.33	0.90
26 05 19 16-0045 LF 10 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	3.77	0.94
26 05 19 16-0046 LF 12 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	4.24	0.97
26 05 19 16-0047 LF 14 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	5.44	0.99
26 05 19 16-0048 LF 16 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	5.55	1.01
26 05 19 16-0049 LF 18 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	5.70	1.04

26 Electrical
26 05 Common Work Results for Electrical
 26 05 19 Low-Voltage Electrical Power Conductors and Cables



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0050	LF		20 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	6.29	1.06
26 05 19 16-0051	LF		24 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	7.78	1.08
26 05 19 16-0052	LF		30 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	8.13	1.15
26 05 19 16-0053 #16, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0036)					
26 05 19 16-0054	LF		2 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	1.70	0.61
26 05 19 16-0055	LF		3 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	1.78	0.61
26 05 19 16-0056	LF		4 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	1.93	0.61
26 05 19 16-0057	LF		5 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	2.78	0.83
26 05 19 16-0058	LF		6 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	3.03	0.85
26 05 19 16-0059	LF		7 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	3.28	0.88
26 05 19 16-0060	LF		8 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	3.60	0.90
26 05 19 16-0061	LF		9 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	3.74	0.92
26 05 19 16-0062	LF		10 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	4.10	0.94
26 05 19 16-0063	LF		12 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	4.71	0.97
26 05 19 16-0064	LF		14 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	5.03	0.99
26 05 19 16-0065	LF		16 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	5.63	1.01
26 05 19 16-0066	LF		18 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	6.43	1.04
26 05 19 16-0067	LF		20 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	7.16	1.06
26 05 19 16-0068	LF		24 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	8.53	1.08
26 05 19 16-0069	LF		26 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	9.34	1.11
26 05 19 16-0070	LF		30 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	10.81	1.15
26 05 19 16-0071 #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0036)					
26 05 19 16-0072	LF		2 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	1.91	0.61
26 05 19 16-0073	LF		3 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	2.00	0.61
26 05 19 16-0074	LF		4 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	2.22	0.61
26 05 19 16-0075	LF		5 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	3.47	0.83
26 05 19 16-0076	LF		6 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	4.08	0.85
26 05 19 16-0077	LF		7 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	4.30	0.88
26 05 19 16-0078	LF		8 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	4.80	0.90
26 05 19 16-0079	LF		9 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	5.13	0.92
26 05 19 16-0080	LF		10 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	5.68	0.94
26 05 19 16-0081	LF		12 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	6.21	0.97
26 05 19 16-0082	LF		14 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	6.81	0.99
26 05 19 16-0083	LF		16 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	8.09	1.01
26 05 19 16-0084	LF		20 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	9.05	1.06
26 05 19 16-0085	LF		24 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	10.56	1.08
26 05 19 16-0086	LF		30 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	12.43	1.15
26 05 19 16-0087 #12, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0036)					
26 05 19 16-0088	LF		2 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	2.14	0.61
26 05 19 16-0089	LF		3 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	2.31	0.61
26 05 19 16-0090	LF		4 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	2.47	0.61
26 05 19 16-0091	LF		5 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	3.91	0.83
26 05 19 16-0092	LF		6 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	4.48	0.85
26 05 19 16-0093	LF		7 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	5.05	0.88
26 05 19 16-0094	LF		8 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	5.68	0.90
26 05 19 16-0095	LF		9 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	6.13	0.92
26 05 19 16-0096	LF		10 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	6.88	0.94
26 05 19 16-0097	LF		12 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	7.77	0.97
26 05 19 16-0098	LF		14 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	8.60	0.99
26 05 19 16-0099	LF		16 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	9.44	1.01
26 05 19 16-0100	LF		18 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	9.84	1.04



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0101 LF 20 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	11.27	1.06
26 05 19 16-0102 LF 24 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	12.73	1.08
26 05 19 16-0103 LF 26 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	14.21	1.11
26 05 19 16-0104 LF 28 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	14.69	1.13
26 05 19 16-0105 LF 30 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	15.21	1.15
26 05 19 16-0106 #10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord <small>(26 05 19 16-0036)</small>		
26 05 19 16-0107 LF 2 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	2.44	0.77
26 05 19 16-0108 LF 3 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	2.58	0.77
26 05 19 16-0109 LF 4 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	2.73	0.77
26 05 19 16-0110 LF 5 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	3.44	0.83
26 05 19 16-0111 LF 6 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	5.37	0.85
26 05 19 16-0112 LF 7 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	6.25	0.88
26 05 19 16-0113 LF 10 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	7.94	0.94
26 05 19 16-0114 LF 12 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	9.04	0.97
26 05 19 16-0115 LF 16 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	11.41	1.01
26 05 19 16-0116 LF 20 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	16.38	1.06
26 05 19 16-0117 #8, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord <small>(26 05 19 16-0036)</small>		
26 05 19 16-0118 LF 3 Conductors, #8 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	4.60	0.92
26 05 19 16-0119 LF 4 Conductors, #8 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	4.97	1.07
26 05 19 16-0120 LF 5 Conductors, #8 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	6.57	1.07
26 05 19 16-0121 #6, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord <small>(26 05 19 16-0036)</small>		
26 05 19 16-0122 LF 3 Conductors, #6 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	6.38	1.07
26 05 19 16-0123 LF 4 Conductors, #6 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	7.68	1.23
26 05 19 16-0124 LF 5 Conductors, #6 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	9.22	1.54
26 05 19 16-0125 #4, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord <small>(26 05 19 16-0036)</small>		
26 05 19 16-0126 LF 3 Conductors, #4 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	10.05	1.54
26 05 19 16-0127 LF 4 Conductors, #4 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	10.98	1.69
26 05 19 16-0128 LF 5 Conductors, #4 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	13.16	1.84
26 05 19 16-0129 #2, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord <small>(26 05 19 16-0036)</small>		
26 05 19 16-0130 LF 3 Conductors, #2 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	15.61	3.08
26 05 19 16-0131 LF 4 Conductors, #2 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	19.82	3.85
26 05 19 16-0132 LF 5 Conductors, #2 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	24.31	5.08
26 05 19 16-0133 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord <small>(26 05 19 16-0014)</small>		
26 05 19 16-0134 #18, 300 Volt, Multi-Conductor Type SJOOW Cord <small>(26 05 19 16-0133)</small>		
26 05 19 16-0135 LF 2 Conductors, #18 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III).....	1.81	0.61
26 05 19 16-0136 LF 3 Conductors, #18 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III).....	1.95	0.61
26 05 19 16-0137 LF 4 Conductors, #18 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III).....	2.22	0.61
26 05 19 16-0138 #16, 300 Volt, Multi-Conductor Type SJOOW Cord <small>(26 05 19 16-0133)</small>		
26 05 19 16-0139 LF 2 Conductors, #16 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III).....	1.90	0.61
26 05 19 16-0140 LF 3 Conductors, #16 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III).....	2.12	0.61
26 05 19 16-0141 LF 4 Conductors, #16 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III).....	2.23	0.61
26 05 19 16-0142 #14, 300 Volt, Multi-Conductor Type SJOOW Cord <small>(26 05 19 16-0133)</small>		
26 05 19 16-0143 LF 2 Conductors, #14 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III).....	2.46	0.61
26 05 19 16-0144 LF 3 Conductors, #14 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III).....	3.36	0.61

26 Electrical**26 05 Common Work Results for Electrical****26 05 19 Low-Voltage Electrical Power Conductors and Cables**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0145	LF		4 Conductors, #14 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III).....	4.22	0.77
26 05 19 16-0146			600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0014)		
26 05 19 16-0147			#18 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0146)		
26 05 19 16-0148	LF		2 Conductors, #18 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	2.39	0.61
26 05 19 16-0149	LF		3 Conductors, #18 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	2.77	0.61
26 05 19 16-0150	LF		4 Conductors, #18 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	3.16	0.61
26 05 19 16-0151			#16 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0146)		
26 05 19 16-0152	LF		2/c #16, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	2.52	0.61
26 05 19 16-0153	LF		3/c #16, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	2.91	0.61
26 05 19 16-0154	LF		4/c #16, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	3.52	0.61
26 05 19 16-0155	LF		5/c #16, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	3.82	0.77
26 05 19 16-0156			#14 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0146)		
26 05 19 16-0157	LF		3 Conductors, #14 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	3.00	0.61
26 05 19 16-0158	LF		4 Conductors, #14 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	3.50	0.61
26 05 19 16-0159	LF		5 Conductors, #14 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	3.90	0.77
26 05 19 16-0160			#12 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0146)		
26 05 19 16-0161	LF		3 Conductors, #12 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	3.47	0.61
26 05 19 16-0162	LF		4 Conductors, #12 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	3.91	0.61
26 05 19 16-0163	LF		5 Conductors, #12 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	4.36	0.77
26 05 19 16-0164			#10, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0146)		
26 05 19 16-0165	LF		3/c #10, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	3.96	0.77
26 05 19 16-0166	LF		4/c #10, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	4.35	0.77
26 05 19 16-0167	LF		5/c #10, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	4.76	0.77
26 05 19 16-0168			Multi-Conductor Type SEOW Cord (26 05 19 16-0013)		
			Note: Includes thermoplastic elastomeric (TPE) insulation.		
26 05 19 16-0169			600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord (26 05 19 16-0168)		
26 05 19 16-0170			#16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord (26 05 19 16-0169)		
26 05 19 16-0171	LF		3 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	1.92	0.61
26 05 19 16-0172	LF		4 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	2.07	0.61
26 05 19 16-0173	LF		5 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	2.95	0.77
26 05 19 16-0174			#14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord (26 05 19 16-0169)		
26 05 19 16-0175	LF		3/c #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	2.38	0.61
26 05 19 16-0176	LF		4/c #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	2.67	0.61
26 05 19 16-0177	LF		5/c #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	3.68	0.77
26 05 19 16-0178			#12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord (26 05 19 16-0169)		
26 05 19 16-0179	LF		3 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	2.85	0.61
26 05 19 16-0180	LF		4 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	3.22	0.61
26 05 19 16-0181	LF		5 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	3.99	0.77
26 05 19 16-0182			#10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord (26 05 19 16-0169)		
26 05 19 16-0183	LF		3/c #10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	3.54	0.77
26 05 19 16-0184	LF		4/c #10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	3.99	0.77
26 05 19 16-0185	LF		5/c #10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	4.25	0.77



	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0186		Multi-Conductor Type W Cord <small>(26 05 19 16-0013)</small> Note: Includes ethylene propylene diene monomer (EPDM) rubber insulation.		
26 05 19 16-0187		2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord <small>(26 05 19 16-0186)</small>		
26 05 19 16-0188		#8 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord <small>(26 05 19 16-0187)</small>		
26 05 19 16-0189	LF	3/c #8, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	4.98	0.92
26 05 19 16-0190	LF	4/c #8, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	5.33	1.07
26 05 19 16-0191	LF	5/c #8, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	6.22	1.07
26 05 19 16-0192		#6 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord <small>(26 05 19 16-0187)</small>		
26 05 19 16-0193	LF	3 Conductors, #6 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	5.37	1.07
26 05 19 16-0194	LF	4 Conductors, #6 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	6.38	1.23
26 05 19 16-0195	LF	5/c #6, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	7.91	1.54
26 05 19 16-0196		#4 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord <small>(26 05 19 16-0187)</small>		
26 05 19 16-0197	LF	3 Conductors, #4 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	7.03	1.07
26 05 19 16-0198	LF	4 Conductors, #4 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	8.30	1.23
26 05 19 16-0199	LF	5 Conductors, #4 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	10.59	1.54
26 05 19 16-0200		Cord Grips, Cable Reels, Extension Cords, And Accessories <small>(26 05 19 16-0012)</small>		
26 05 19 16-0201		Cord Grips <small>(26 05 19 16-0200)</small>		
26 05 19 16-0202	EA	Cord Grip With Watertight Connector For 1/2" NPT Zinc Plated Steel.....	96.86	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	27.97	
26 05 19 16-0203	EA	Cord Grip With Watertight Connector For 3/4" NPT Zinc Plated Steel.....	97.27	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	27.97	
26 05 19 16-0204		Cable Reels <small>(26 05 19 16-0200)</small> Note: Includes handling, mounting, electrical connections and installing cord.		
26 05 19 16-0205	EA	30', 16-3, SJO, Extension Cord Reel (Cox Reels PC10-3016-A).....	681.18	76.91
26 05 19 16-0206	EA	50', 10-4, SEOOW, Extension Cord Reel (Reelcraft L 7050 104 X 1)	1,814.27	76.91
26 05 19 16-0207	EA	50', 16-3, SOOW, Extension Cord Reel (KH Industries RTFD3L-WW-B16K).....	1,366.37	76.91
26 05 19 16-0208		Extension Cords For Cable Reel <small>(26 05 19 16-0200)</small>		
26 05 19 16-0209	EA	100 LF, 120 Volt, 12 Gauge, 3 Wire, Extension Cord.....	214.20	
26 05 19 16-0210	EA	100 LF, 240 Volt, 10 Gauge, 3 Wire, Extension Cord.....	301.06	
26 05 19 16-0211		Plugs And Connector Bodies <small>(26 05 19 16-0200)</small> Note: Up to 277 volt		
26 05 19 16-0212		NEMA Twist-Lock Plugs <small>(26 05 19 16-0211)</small>		
26 05 19 16-0213	EA	15 Amperes, 2 Pole 2 Wire, NEMA Twist-Lock Plug (Hubbell HBL7545C)	96.17	
26 05 19 16-0214	EA	15 Amperes, 2 Pole 3 Wire, NEMA Twist-Lock Plug (Hubbell HBL4770CBK).....	97.66	
26 05 19 16-0215	EA	20 Amperes, 2 Pole 2 Wire, NEMA Twist-Lock Plug (Hubbell HBL7102C)	91.42	
26 05 19 16-0216	EA	20 Amperes, 2 Pole 3 Wire, NEMA Twist-Lock Plug (Hubbell HBL2331)	95.99	
26 05 19 16-0217	EA	20 Amperes, 3 Pole 4 Wire, NEMA Twist-Lock Plug (Hubbell HBL2411)	117.41	
26 05 19 16-0218	EA	20 Amperes, 4 Pole 4 Wire, NEMA Twist-Lock Plug (Hubbell HBL2441)	123.22	
26 05 19 16-0219	EA	20 Amperes, 4 Pole 5 Wire, NEMA Twist-Lock Plug (Hubbell HBL2511BK)	128.90	
26 05 19 16-0220	EA	30 Amperes, 2 Pole 3 Wire, NEMA Twist-Lock Plug (Hubbell HBL2611BK)	118.28	
26 05 19 16-0221	EA	30 Amperes, 3 Pole 4 Wire, NEMA Twist-Lock Plug (Hubbell HBL2711BK)	132.23	
26 05 19 16-0222	EA	30 Amperes, 4 Pole 4 Wire, NEMA Twist-Lock Plug (Hubbell HBL2761).....	134.95	
26 05 19 16-0223	EA	30 Amperes, 4 Pole 5 Wire, NEMA Twist-Lock Plug (Hubbell HBL2811BK)	138.41	
26 05 19 16-0224		NEMA Twist-Lock Connector Bodies <small>(26 05 19 16-0211)</small>		
26 05 19 16-0225	EA	15 Amperes, 2 Pole 2 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL7506C).....	100.37	
26 05 19 16-0226	EA	15 Amperes, 2 Pole 3 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL4779C).....	105.62	
26 05 19 16-0227	EA	20 Amperes, 2 Pole 2 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL7101C).....	94.57	
26 05 19 16-0228	EA	20 Amperes, 2 Pole 3 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2323BK).....	118.28	
26 05 19 16-0229	EA	20 Amperes, 3 Pole 4 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2413BK).....	133.59	
26 05 19 16-0230	EA	20 Amperes, 4 Pole 4 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2443).....	141.00	
26 05 19 16-0231	EA	20 Amperes, 4 Pole 5 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2513BK).....	165.95	
26 05 19 16-0232	EA	30 Amperes, 2 Pole 3 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2623BK).....	159.65	
26 05 19 16-0233	EA	30 Amperes, 3 Pole 4 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2713BK).....	190.89	
26 05 19 16-0234	EA	30 Amperes, 4 Pole 4 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2753).....	199.17	
26 05 19 16-0235	EA	30 Amperes, 4 Pole 5 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2813BK).....	190.15	
26 05 19 16-0236		Watertight Pin And Sleeve Plug <small>(26 05 19 16-0211)</small>		
26 05 19 16-0237	EA	20 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Plug (Hubbell 320P4W).....	285.26	46.15
26 05 19 16-0238	EA	20 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 320P6W).....	288.06	46.15

26 Electrical
26 05 Common Work Results for Electrical
26 05 19 Low-Voltage Electrical Power Conductors and Cables



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0239	EA		20 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 320P7W).....	309.79	46.15
26 05 19 16-0240	EA		20 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Plug (Hubbell 420P12W).....	312.48	50.76
26 05 19 16-0241	EA		20 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 420P9W).....	308.26	50.76
26 05 19 16-0242	EA		20 Amperes, Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 420P7W).....	309.52	50.76
26 05 19 16-0243	EA		30 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Plug (Hubbell 330P4W).....	428.62	56.76
26 05 19 16-0244	EA		30 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 330P6W).....	418.12	56.76
26 05 19 16-0245	EA		30 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 330P7W).....	463.21	56.76
26 05 19 16-0246	EA		30 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Plug (Hubbell 430P12W).....	458.23	62.30
26 05 19 16-0247	EA		30 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 430P9W).....	440.00	62.30
26 05 19 16-0248	EA		30 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 430P7W).....	452.54	62.30
26 05 19 16-0249	EA		60 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Plug (Hubbell 360P4W).....	580.80	73.84
26 05 19 16-0250	EA		60 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 360P6W).....	590.80	73.84
26 05 19 16-0251	EA		60 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 360P7W).....	567.09	73.84
26 05 19 16-0252	EA		60 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Plug (Hubbell 460P12W).....	644.89	82.14
26 05 19 16-0253	EA		60 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 460P9W).....	629.33	82.14
26 05 19 16-0254	EA		60 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 460P7W).....	636.06	82.14
26 05 19 16-0255	EA		100 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 3100P6W).....	792.72	92.29
26 05 19 16-0256	EA		100 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 3100P7W).....	831.34	92.29
26 05 19 16-0257	EA		100 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Plug (Hubbell 4100P12W).....	816.04	101.53
26 05 19 16-0258	EA		100 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 4100P9W).....	802.85	101.53
26 05 19 16-0259	EA		100 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 4100P7W).....	809.98	101.53

26 05 19 16-0260 Watertight Pin And Sleeve Connector (26 05 19 16-0211)

26 05 19 16-0261	EA		20 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Connector (Hubbell 320C4W).....	301.36	46.15
26 05 19 16-0262	EA		20 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 320C6W).....	303.29	46.15
26 05 19 16-0263	EA		20 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 320C7W).....	353.34	46.15
26 05 19 16-0264	EA		20 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Connector (Hubbell 420C12W).....	353.03	50.76
26 05 19 16-0265	EA		20 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 420C9W).....	347.95	50.76
26 05 19 16-0266	EA		20 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 420C7W).....	352.55	50.76
26 05 19 16-0267	EA		30 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Connector (Hubbell 330C4W).....	438.23	56.76
26 05 19 16-0268	EA		30 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 330C6W).....	438.13	56.76
26 05 19 16-0269	EA		30 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 330C7W).....	455.39	56.76
26 05 19 16-0270	EA		30 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Connector (Hubbell 430C12W).....	453.55	62.30
26 05 19 16-0271	EA		30 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 430C9W).....	457.10	62.30
26 05 19 16-0272	EA		30 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 430C7W).....	453.35	62.30
26 05 19 16-0273	EA		60 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Connector (Hubbell 360C4W).....	679.44	73.84
26 05 19 16-0274	EA		60 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 360C6W).....	658.30	73.84
26 05 19 16-0275	EA		60 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 360C7W).....	645.71	73.84
26 05 19 16-0276	EA		60 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Connector (Hubbell 460C12W).....	703.60	82.14
26 05 19 16-0277	EA		60 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 460C9W).....	721.98	82.14
26 05 19 16-0278	EA		60 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 460C7W).....	723.33	82.14
26 05 19 16-0279	EA		100 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 3100C6W).....	900.92	92.29
26 05 19 16-0280	EA		100 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 3100C7W).....	925.16	92.29
26 05 19 16-0281	EA		100 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Connector (Hubbell 4100C12W).....	1,000.58	101.53
26 05 19 16-0282	EA		100 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 4100C9W).....	967.28	101.53
26 05 19 16-0283	EA		100 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 4100C7W).....	978.63	101.53

26 05 19 16-0284 Accessories (26 05 19 16-0200)

26 05 19 16-0285	EA		1/2" Straight Steel Cord Connector.....	68.76	15.39
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.23	
26 05 19 16-0286	EA		1/2" Straight Nylon Cord Connector.....	42.07	11.54
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.92	
26 05 19 16-0287	EA		1/2" 90 Degree Steel Cord Connector.....	79.30	19.22
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.54	
26 05 19 16-0288	EA		1/2" 90 Degree Nylon Cord Connector.....	51.18	15.39
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.23	
26 05 19 16-0289	EA		1/2" Straight Steel Cord Connector With Strain Relief Mesh.....	78.36	19.22
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.54	
26 05 19 16-0290	EA		1/2" 90 Degree Steel Cord Connector With Strain Relief Mesh.....	131.92	23.07
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.85	
26 05 19 16-0291	EA		1/2" Straight Nylon Cord Connector With Strain Relief Mesh.....	50.45	15.39
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.23	
26 05 19 16-0292	EA		1/2" 90 Degree Nylon Cord Connector With Strain Relief Mesh.....	82.76	19.22
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.54	
26 05 19 16-0293	EA		3/4" Straight Steel Cord Connector.....	71.44	15.39
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.23	
26 05 19 16-0294	EA		3/4" Straight Nylon Cord Connector.....	43.42	11.54
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.92	
26 05 19 16-0295	EA		3/4" 90 Degree Steel Cord Connector.....	87.66	19.22
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.54	
26 05 19 16-0296	EA		3/4" 90 Degree Nylon Cord Connector.....	55.36	15.39
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.23	
26 05 19 16-0297	EA		3/4" Straight Steel Cord Connector With Strain Relief Mesh.....	88.85	23.07
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.84	
26 05 19 16-0298	EA		3/4" 90 Degree Steel Cord Connector With Strain Relief Mesh.....	105.50	26.92
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.15	
26 05 19 16-0299	EA		3/4" Straight Nylon Cord Connector With Strain Relief Mesh.....	60.96	19.22
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.54	
26 05 19 16-0300	EA		3/4" 90 Degree Nylon Cord Connector With Strain Relief Mesh.....	73.58	23.07
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.85	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0301 EA 1" Straight Steel Cord Connector..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	88.59 9.23	15.39
26 05 19 16-0302 EA 1" Straight Nylon Cord Connector..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	52.00 6.92	11.54
26 05 19 16-0303 EA 1" 90 Degree Steel Cord Connector <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	98.99 11.54	19.22
26 05 19 16-0304 EA 1" 90 Degree Nylon Cord Connector <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	61.03 9.23	15.39
26 05 19 16-0305 EA 1" Straight Steel Cord Connector With Strain Relief Mesh <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	106.87 13.84	23.07
26 05 19 16-0306 EA 1" 90 Degree Steel Cord Connector With Strain Relief Mesh <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	117.40 16.15	26.92
26 05 19 16-0307 EA 1" Straight Nylon Cord Connector With Strain Relief Mesh <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	70.11 11.54	19.22
26 05 19 16-0308 EA 1" 90 Degree Nylon Cord Connector With Strain Relief Mesh <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	81.31 13.85	23.07
26 05 19 16-0309 600 Volt Wire <small>(26 05 19 16-0011)</small>		
26 05 19 16-0310 Single Solid Conductor, Copper <small>(26 05 19 16-0309)</small>		
26 05 19 16-0311 MLF #14 AWG, Type THHN-THWN, 600 Volt, Copper, Single Solid Cable, Installed In Conduit.....	825.66	341.11
26 05 19 16-0312 MLF #12 AWG, Type THHN-THWN, 600 Volt, Copper, Single Solid Cable, Installed In Conduit.....	1,027.89	401.27
26 05 19 16-0313 MLF #10 AWG, Type THHN-THWN, 600 Volt, Copper, Single Solid Cable, Installed In Conduit.....	1,262.57	490.66
26 05 19 16-0314 MLF #14 AWG, Type XHHW, 600 Volt, Copper, Single Solid Cable, Installed In Conduit.....	1,051.30	341.11
26 05 19 16-0315 MLF #12 AWG, Type XHHW, 600 Volt, Copper, Single Solid Cable, Installed In Conduit.....	1,265.34	401.27
26 05 19 16-0316 MLF #10 AWG, Type XHHW, 600 Volt, Copper, Single Solid Cable, Installed In Conduit.....	1,509.60	490.66
26 05 19 16-0317 Power Cable, Stranded Conductor, Copper <small>(26 05 19 16-0309)</small>		
26 05 19 16-0318 Power Cable, Stranded, Single Conductor, XHHW-2 <small>(26 05 19 16-0317)</small>		
26 05 19 16-0319 MLF #16 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	860.94	281.10
26 05 19 16-0320 MLF #14 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	1,018.21	337.33
26 05 19 16-0321 MLF #12 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	1,246.08	393.55
26 05 19 16-0322 MLF #10 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	1,521.60	449.76
26 05 19 16-0323 MLF #8 AWG, XLP (XHHW-2), 600 Volt, Copper, Single Stranded, Power Cable, Installed In Conduit.....	2,015.57	562.21
26 05 19 16-0324 MLF #6 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	2,695.26	674.64
26 05 19 16-0325 MLF #4 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	3,663.66	843.31
26 05 19 16-0326 MLF #3 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	4,321.03	955.75
26 05 19 16-0327 MLF #2 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	5,095.73	1,068.19
26 05 19 16-0328 MLF #1 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	6,270.24	1,180.64
26 05 19 16-0329 MLF 1/0 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	7,501.02	1,349.29
26 05 19 16-0330 MLF 2/0 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	8,953.51	1,517.95
26 05 19 16-0331 MLF 3/0 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	10,674.58	1,686.62
26 05 19 16-0332 MLF 4/0 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	12,737.80	1,855.28
26 05 19 16-0333 MLF 250 MCM, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	13,517.87	2,023.94
26 05 19 16-0334 MLF 300 MCM, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	15,961.27	2,192.60
26 05 19 16-0335 MLF 350 MCM, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	17,034.29	2,361.26
26 05 19 16-0336 MLF 400 MCM, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	19,017.74	2,529.92
26 05 19 16-0337 MLF 500 MCM, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	21,946.42	2,698.59
26 05 19 16-0338 MLF 600 MCM, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	25,214.55	2,923.47
26 05 19 16-0339 MLF 750 MCM, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	37,943.05	3,260.79
26 05 19 16-0340 MLF 1,000 MCM, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	53,266.24	3,823.00
26 05 19 16-0341 Power Cable, Stranded, Multi Conductor, XHHW-2 <small>(26 05 19 16-0317)</small>		
26 05 19 16-0342 MLF 2 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	2,036.41	674.50
26 05 19 16-0343 MLF 3 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	2,492.41	787.23
26 05 19 16-0344 MLF 4 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	3,089.11	955.75
26 05 19 16-0345 MLF 6 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	3,648.46	1,039.65
26 05 19 16-0346 MLF 7 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	3,964.73	1,096.16
26 05 19 16-0347 MLF 9 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	4,595.13	1,208.46
26 05 19 16-0348 MLF 10 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	3,323.79	1,259.62
26 05 19 16-0349 MLF 12 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	5,542.32	1,377.40
26 05 19 16-0350 MLF 14 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	6,103.50	1,462.02
26 05 19 16-0351 MLF 24 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	8,836.09	1,855.42
26 05 19 16-0352 MLF 37 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	13,358.29	2,754.81
26 05 19 16-0353 MLF 2 Conductors, #12 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	2,492.48	787.23
26 05 19 16-0354 MLF 3 Conductors, #12 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	3,176.18	955.75
26 05 19 16-0355 MLF 4 Conductors, #12 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	3,859.88	1,124.41
26 05 19 16-0356 MLF 2 Conductors, #10 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	3,323.22	1,011.55
26 05 19 16-0357 MLF 3 Conductors, #10 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	4,281.06	1,235.73
26 05 19 16-0358 MLF 4 Conductors, #10 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	5,524.89	1,574.46
26 05 19 16-0359 MLF 6 Conductors, #10 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	7,444.73	2,024.64
26 05 19 16-0360 MLF 9 Conductors, #10 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	10,040.37	2,586.28
26 05 19 16-0361 MLF 2 Conductors, #8 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	4,101.41	1,152.52
26 05 19 16-0362 MLF 3 Conductors, #8 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	5,203.39	1,349.29
26 05 19 16-0363 MLF 4 Conductors, #8 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	6,727.03	1,714.73
26 05 19 16-0364 MLF 2 Conductors, #6 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	5,250.11	1,293.07
26 05 19 16-0365 MLF 3 Conductors, #6 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	7,031.65	1,602.28
26 05 19 16-0366 MLF 4 Conductors, #6 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	8,974.96	1,976.15



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0367 MLF 2 Conductors, #4 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	7,032.78	1,568.83
26 05 19 16-0368 MLF 3 Conductors, #4 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	9,152.30	1,794.42
26 05 19 16-0369 MLF 4 Conductors, #4 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	11,819.65	2,239.27
26 05 19 16-0370 MLF 2 Conductors, #2 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	9,627.80	1,910.94
26 05 19 16-0371 MLF 3 Conductors, #2 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	12,618.07	2,136.94
26 05 19 16-0372 MLF 4 Conductors, #2 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	16,728.54	2,811.02
26 05 19 16-0373 MLF 3 Conductors, #1 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	16,701.32	2,698.17
26 05 19 16-0374 MLF 4 Conductors, #1 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	21,704.15	3,371.83
26 05 19 16-0375 MLF 3 Conductors, 1/0 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	19,693.30	2,924.03
26 05 19 16-0376 MLF 3 Conductors, 2/0 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	23,905.37	3,371.83
26 05 19 16-0377 MLF 3 Conductors, 3/0 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	29,208.47	3,933.75
26 05 19 16-0378 MLF 4 Conductors, 3/0 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	38,476.32	5,057.74
26 05 19 16-0379 MLF 3 Conductors, 4/0 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	35,552.58	4,501.44
26 05 19 16-0380 MLF 3 Conductors, 250 MCM, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	38,018.21	5,057.74
26 05 19 16-0381 MLF 3 Conductors, 350 MCM, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	47,448.47	5,622.06
26 05 19 16-0382 MLF 3 Conductors, 500 MCM, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	61,047.19	6,178.92

26 05 19 16-0383 Underground Feeder And Branch Circuit Suitable, Single Stranded Copper

(26 05 19 16-0383)

Note: Direct bury.

26 05 19 16-0384 MLF #14 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,229.31	
26 05 19 16-0385 MLF #12 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,446.56	
26 05 19 16-0386 MLF #10 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,810.67	
26 05 19 16-0387 MLF #8 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	2,380.49	
26 05 19 16-0388 MLF #6 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	3,324.81	
26 05 19 16-0389 MLF #4 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	4,376.75	
26 05 19 16-0390 MLF #2 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	6,316.13	
26 05 19 16-0391 MLF #1 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	7,845.43	
26 05 19 16-0392 MLF 1/0 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	9,615.43	
26 05 19 16-0393 MLF 2/0 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	11,641.45	
26 05 19 16-0394 MLF 3/0 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	14,021.81	
26 05 19 16-0395 MLF 4/0 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	15,835.70	
26 05 19 16-0396 MLF 250 MCM, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	17,149.95	
26 05 19 16-0397 MLF 300 MCM, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	20,513.00	
26 05 19 16-0398 MLF 350 MCM, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	22,926.99	
26 05 19 16-0399 MLF 400 MCM, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	25,748.19	
26 05 19 16-0400 MLF 500 MCM, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	30,471.28	
26 05 19 16-0401 MLF 600 MCM, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	35,970.95	
26 05 19 16-0402 MLF 750 MCM, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	57,048.52	
26 05 19 16-0403 MLF #14 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,011.12	
26 05 19 16-0404 MLF #12 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,208.47	
26 05 19 16-0405 MLF #10 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,439.52	
26 05 19 16-0406 MLF #8 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,769.37	
26 05 19 16-0407 MLF #6 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	2,258.96	
26 05 19 16-0408 MLF #4 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	2,985.30	
26 05 19 16-0409 MLF #2 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	4,026.64	
26 05 19 16-0410 MLF #1 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	4,735.44	
26 05 19 16-0411 MLF 1/0 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	5,364.78	
26 05 19 16-0412 MLF 2/0 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	6,045.46	
26 05 19 16-0413 MLF 3/0 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	6,998.47	
26 05 19 16-0414 MLF 4/0 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	8,138.45	
26 05 19 16-0415 MLF 250 MCM, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	9,203.50	
26 05 19 16-0416 MLF 300 MCM, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	10,323.69	
26 05 19 16-0417 MLF 350 MCM, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	11,534.57	
26 05 19 16-0418 MLF 400 MCM, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	12,784.88	
26 05 19 16-0419 MLF 500 MCM, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	14,804.75	
26 05 19 16-0420 MLF 750 MCM, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	24,325.49	
26 05 19 16-0421 MLF #14 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	849.99	
26 05 19 16-0422 MLF #12 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,053.96	
26 05 19 16-0423 MLF #10 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,300.29	
26 05 19 16-0424 MLF #8 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,815.78	
26 05 19 16-0425 MLF #6 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	2,456.78	
26 05 19 16-0426 MLF #4 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	3,230.73	
26 05 19 16-0427 MLF #2 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	4,598.19	
26 05 19 16-0428 MLF #1 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	5,463.83	
26 05 19 16-0429 MLF 1/0 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	6,355.25	
26 05 19 16-0430 MLF 2/0 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	7,202.48	
26 05 19 16-0431 MLF 3/0 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	8,518.76	
26 05 19 16-0432 MLF 4/0 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	10,129.45	
26 05 19 16-0433 MLF 250 MCM, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	11,869.35	
26 05 19 16-0434 MLF 300 MCM, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	13,680.84	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0435 MLF 350 MCM, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	15,625.54	
26 05 19 16-0436 MLF 400 MCM, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	17,503.04	
26 05 19 16-0437 MLF 500 MCM, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	20,733.18	
26 05 19 16-0438 MLF 600 MCM, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	24,882.88	
26 05 19 16-0439 MLF 750 MCM, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	39,069.15	
26 05 19 16-0440 MLF #2 AWG, Type EPR, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	6,546.21	
26 05 19 16-0441 MLF 1/0 AWG, Type EPR, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	9,329.52	
26 05 19 16-0442 MLF 2/0 AWG, Type EPR, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	10,365.78	
26 05 19 16-0443 MLF 3/0 AWG, Type EPR, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	11,759.86	
26 05 19 16-0444 MLF 4/0 AWG, Type EPR, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	13,062.58	
26 05 19 16-0445 MLF 250 MCM, Type EPR, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	14,086.32	
26 05 19 16-0446 MLF 350 MCM, Type EPR, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	19,995.90	
26 05 19 16-0447 MLF 400 MCM, Type EPR, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	21,724.37	
26 05 19 16-0448 MLF 500 MCM, Type EPR, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	24,706.78	
26 05 19 16-0449 600 Volt, Armored Cable, Copper Conductors (26 05 19 16-0309)		
26 05 19 16-0450 ACTHH, Solid (26 05 19 16-0449)		
26 05 19 16-0451 MLF 1 Conductor, #8 AWG, Type ACT, Solid, Armored Cable.....	3,304.44	922.93
26 05 19 16-0452 MLF 1 Conductor, #6 AWG, Type ACT, Solid, Armored Cable.....	3,811.51	1,045.98
26 05 19 16-0453 MLF 1 Conductor, #4 AWG, Type ACT, Solid, Armored Cable.....	4,363.24	1,107.51
26 05 19 16-0454 MLF 2 Conductors, #14 AWG, Type ACTHH, Solid, Armored Cable.....	4,761.16	1,538.21
26 05 19 16-0455 MLF 2 Conductors, #12 AWG, Type ACTHH, Solid, Armored Cable.....	5,099.66	1,722.49
26 05 19 16-0456 MLF 2 Conductors, #10 AWG, Type ACTHH, Solid, Armored Cable.....	6,462.10	1,908.46
26 05 19 16-0457 MLF 2 Conductors, #8 AWG, Type ACTHH, Solid, Armored Cable.....	8,454.53	2,092.74
26 05 19 16-0458 MLF 3 Conductors, #14 AWG, Type ACTHH, Solid, Armored Cable.....	5,760.07	1,722.49
26 05 19 16-0459 MLF 3 Conductors, #12 AWG, Type ACTHH, Solid, Armored Cable.....	6,032.25	1,908.46
26 05 19 16-0460 MLF 3 Conductors, #10 AWG, Type ACTHH, Solid, Armored Cable.....	7,719.56	2,154.43
26 05 19 16-0461 MLF 3 Conductors, #8 AWG, Type ACTHH, Solid, Armored Cable.....	10,037.24	2,337.78
26 05 19 16-0462 MLF 4 Conductors, #14 AWG, Type ACTHH, Solid, Armored Cable.....	6,871.42	1,908.46
26 05 19 16-0463 MLF 4 Conductors, #12 AWG, Type ACTHH, Solid, Armored Cable.....	7,528.30	2,154.43
26 05 19 16-0464 MLF 4 Conductors, #10 AWG, Type ACTHH, Solid, Armored Cable.....	9,586.50	2,399.77
26 05 19 16-0465 MLF 4 Conductors, #8 AWG, Type ACTHH, Solid, Armored Cable.....	12,446.43	2,585.28
26 05 19 16-0466 ACTHH, Stranded (26 05 19 16-0449)		
26 05 19 16-0467 MLF 2 Conductors, #8 AWG, Type ACTHH, Stranded, Armored Cable.....	8,763.63	2,216.42
26 05 19 16-0468 MLF 2 Conductors, #6 AWG, Type ACTHH, Stranded, Armored Cable.....	10,693.50	2,521.60
26 05 19 16-0469 MLF 3 Conductors, #8 AWG, Type ACTHH, Stranded, Armored Cable.....	10,345.82	2,461.14
26 05 19 16-0470 MLF 3 Conductors, #6 AWG, Type ACTHH, Stranded, Armored Cable.....	12,987.77	2,766.64
26 05 19 16-0471 MLF 3 Conductors, #4 AWG, Type ACTHH, Stranded, Armored Cable.....	16,453.15	3,076.43
26 05 19 16-0472 MLF 3 Conductors, #3 AWG, Type ACTHH, Stranded, Armored Cable.....	18,922.60	3,380.69
26 05 19 16-0473 MLF 3 Conductors, #2 AWG, Type ACTHH, Stranded, Armored Cable.....	21,691.08	3,688.79
26 05 19 16-0474 MLF 4 Conductors, #8 AWG, Type ACTHH, Stranded, Armored Cable.....	13,364.42	2,952.45
26 05 19 16-0475 MLF 4 Conductors, #6 AWG, Type ACTHH, Stranded, Armored Cable.....	16,193.98	3,258.86
26 05 19 16-0476 MLF 4 Conductors, #4 AWG, Type ACTHH, Stranded, Armored Cable.....	20,859.74	3,568.97
26 05 19 16-0477 MLF 4 Conductors, #3 AWG, Type ACTHH, Stranded, Armored Cable.....	22,862.11	3,874.61
26 05 19 16-0478 MLF 4 Conductors, #2 AWG, Type ACTHH, Stranded, Armored Cable.....	27,143.94	4,179.94
26 05 19 16-0479 HCFC, Solid (26 05 19 16-0449)		
26 05 19 16-0480 MLF 2 Conductors, #14 AWG, Type HCF, Solid, Armored Cable.....	5,336.29	1,538.21
26 05 19 16-0481 MLF 2 Conductors, #12 AWG, Type HCF, Solid, Armored Cable.....	5,840.88	1,728.33
26 05 19 16-0482 MLF 2 Conductors, #10 AWG, Type HCF, Solid, Armored Cable.....	6,530.05	1,899.08
26 05 19 16-0483 MLF 3 Conductors, #14 AWG, Type HCF, Solid, Armored Cable.....	6,474.68	1,728.33
26 05 19 16-0484 MLF 3 Conductors, #12 AWG, Type HCF, Solid, Armored Cable.....	6,944.78	1,899.08
26 05 19 16-0485 MLF 3 Conductors, #10 AWG, Type HCF, Solid, Armored Cable.....	9,096.54	2,166.58
26 05 19 16-0486 MLF 4 Conductors, #14 AWG, Type HCF, Solid, Armored Cable.....	7,964.98	1,899.08
26 05 19 16-0487 MLF 4 Conductors, #12 AWG, Type HCF, Solid, Armored Cable.....	8,698.68	2,166.58
26 05 19 16-0488 MLF 4 Conductors, #10 AWG, Type HCF, Solid, Armored Cable.....	11,915.51	2,403.46
26 05 19 16-0489 MC, Solid Or Stranded, Galvanized Steel Armor (26 05 19 16-0449)		
26 05 19 16-0490 MLF 2 Conductors, #14 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	4,497.67	1,538.21
26 05 19 16-0491 MLF 2 Conductors, #12 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	5,030.10	1,728.33
26 05 19 16-0492 MLF 2 Conductors, #10 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	5,933.58	1,899.08
26 05 19 16-0493 MLF 2 Conductors, #8 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	7,335.72	2,029.37
26 05 19 16-0494 MLF 2 Conductors, #6 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	8,896.39	2,151.35
26 05 19 16-0495 MLF 3 Conductors, #14 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	5,164.25	1,728.33
26 05 19 16-0496 MLF 3 Conductors, #12 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	5,794.46	1,899.08
26 05 19 16-0497 MLF 3 Conductors, #10 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	7,207.43	2,166.58
26 05 19 16-0498 MLF 3 Conductors, #8 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	9,064.93	2,337.78
26 05 19 16-0499 MLF 3 Conductors, #6 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	10,467.35	2,521.60
26 05 19 16-0500 MLF 3 Conductors, #4 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	12,693.38	2,708.18
26 05 19 16-0501 MLF 3 Conductors, #2 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	17,020.58	2,891.38

26 Electrical

26 05 Common Work Results for Electrical

26 05 19 Low-Voltage Electrical Power Conductors and Cables



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0502 MLF 4 Conductors, #14 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable	5,921.41	1,899.08
26 05 19 16-0503 MLF 4 Conductors, #12 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable	6,777.89	2,166.58
26 05 19 16-0504 MLF 4 Conductors, #10 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable	9,695.90	2,403.46
26 05 19 16-0505 MLF 4 Conductors, #8 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable	12,767.47	2,647.58
26 05 19 16-0506 MLF 4 Conductors, #6 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable	15,352.25	2,832.78
26 05 19 16-0507 MLF 4 Conductors, #4 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable	19,807.74	3,016.13
26 05 19 16-0508 MLF 4 Conductors, #2 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable	25,153.95	3,197.95
26 05 19 16-0509 MC, Solid Or Stranded, Aluminum Armor (26 05 19 16-0449)		
26 05 19 16-0510 MLF 2 Conductors, #14 AWG, Type MC, Solid Or Stranded, Aluminum Armored Cable	4,468.80	1,538.21
26 05 19 16-0511 MLF 2 Conductors, #12 AWG, Type MC, Solid Or Stranded, Aluminum Armored Cable	4,955.25	1,728.33
26 05 19 16-0512 MLF 2 Conductors, #10 AWG, Type MC, Solid Or Stranded, Aluminum Armored Cable	5,867.38	1,899.08
26 05 19 16-0513 MLF 3 Conductors, #14 AWG, Type MC, Solid Or Stranded, Aluminum Armored Cable	5,284.81	1,728.33
26 05 19 16-0514 MLF 3 Conductors, #12 AWG, Type MC, Solid Or Stranded, Aluminum Armored Cable	5,727.96	1,899.08
26 05 19 16-0515 MLF 3 Conductors, #10 AWG, Type MC, Solid Or Stranded, Aluminum Armored Cable	7,154.84	2,166.58
26 05 19 16-0516 MLF 4 Conductors, #14 AWG, Type MC, Solid Or Stranded, Aluminum Armored Cable	6,494.59	1,899.08
26 05 19 16-0517 MLF 4 Conductors, #12 AWG, Type MC, Solid Or Stranded, Aluminum Armored Cable	7,193.32	2,166.58
26 05 19 16-0518 MLF 4 Conductors, #10 AWG, Type MC, Solid Or Stranded, Aluminum Armored Cable	9,695.90	2,403.46
26 05 19 16-0519 FPLP Solid TFN Red Armored Cable (26 05 19 16-0449)		
Note: Color coded red.		
26 05 19 16-0520 MLF #18/2 With Bare #18 Ground Type TFN FPLP Red Armored Cable	4,611.47	1,169.04
26 05 19 16-0521 MLF #18/4 With Bare #18 Ground Type TFN FPLP Red Armored Cable	5,244.04	1,353.63
26 05 19 16-0522 MLF #18/6 With Bare #18 Ground Type TFN FPLP Red Armored Cable	6,461.86	1,538.21
26 05 19 16-0523 MLF #18/8 With Bare #18 Ground Type TFN FPLP Red Armored Cable	7,400.21	1,722.81
26 05 19 16-0524 MLF #16/2 With Bare #16 Ground Type TFN FPLP Red Armored Cable	5,255.18	1,353.63
26 05 19 16-0525 MLF #16/4 With Bare #16 Ground Type TFN FPLP Red Armored Cable	6,194.55	1,538.21
26 05 19 16-0526 MLF #16/6 With Bare #16 Ground Type TFN FPLP Red Armored Cable	7,721.17	1,722.81
26 05 19 16-0527 MLF #16/8 With Bare #16 Ground Type TFN FPLP Red Armored Cable	8,768.88	1,907.39
26 05 19 16-0528 FPLP Solid THHN Red Armored Cable (26 05 19 16-0449)		
Note: Color coded red.		
26 05 19 16-0529 MLF #14/2 With #14 Ground Type THHN FPLP Red Armored Cable	5,847.26	1,538.21
26 05 19 16-0530 MLF #14/4 With #14 Ground Type THHN FPLP Red Armored Cable	7,208.84	1,722.81
26 05 19 16-0531 MLF #14/6 With #14 Ground Type THHN FPLP Red Armored Cable	9,484.72	1,907.39
26 05 19 16-0532 MLF #14/8 With #14 Ground Type THHN FPLP Red Armored Cable	10,963.75	2,091.97
26 05 19 16-0533 MLF #12/2 With #12 Ground Type THHN FPLP Red Armored Cable	7,316.17	1,722.81
26 05 19 16-0534 MLF #12/4 With #12 Ground Type THHN FPLP Red Armored Cable	8,896.46	1,907.39
26 05 19 16-0535 FPLP Twisted Shielded Pair Red Armored Cable (26 05 19 16-0449)		
Note: Color coded red.		
26 05 19 16-0536 MLF #18/2 With #18 Tinned Ground FPLP Twisted Shielded Pair Red Armored Cable	4,975.97	1,169.04
26 05 19 16-0537 MLF #18/2 With #18 Tinned Ground And #14/2 With #14 Tinned Ground FPLP Twisted Shielded Pair Red Armored Cable	7,931.77	1,722.81
26 05 19 16-0538 MLF #16/2 With #16 Tinned Ground FPLP Twisted Shielded Pair Red Armored Cable	6,096.57	1,353.63
26 05 19 16-0539 MLF #16/4 With Two #16 Tinned Grounds FPLP Twisted Shielded Pair Red Armored Cable	7,184.78	1,538.21
26 05 19 16-0540 MLF #16/2 With #16 Tinned Ground And #12/2 With #12 Ground FPLP Twisted Shielded Pair Red Armored Cable	9,927.19	1,907.39
26 05 19 16-0541 MLF #14/2 With One #16 Tinned Ground And One #14 Ground FPLP Twisted Shielded Pair Red Armored Cable	7,145.22	1,599.74
26 05 19 16-0542 MLF #14/4 With Two #16 Tinned Ground And One #14 Ground FPLP Twisted Shielded Pair Red Armored Cable	8,791.24	1,845.86
26 05 19 16-0543 Armored Cable Connectors (26 05 19 16-0449)		
26 05 19 16-0544 EA 3/4" Armored Cable Connector	9.19	3.38
<i>For Work In Restricted Working Space, Add</i>		
<i>For Elevated Installation >10' To 15', Add</i>	2.53	
<i>For Elevated Installation >15' To 20', Add</i>	0.84	
<i>For Elevated Installation >20' To 25', Add</i>	1.69	
<i>For Elevated Installation >25' To 30', Add</i>	2.11	
<i>For Elevated Installation >30' To 35', Add</i>	2.95	
<i>For Elevated Installation >35' To 40', Add</i>	3.38	
<i>For Elevated Installation >40', Add</i>	4.22	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.64	
26 05 19 16-0545 EA 1" Armored Cable Connector	2.53	
<i>For Work In Restricted Working Space, Add</i>		
<i>For Elevated Installation >10' To 15', Add</i>	12.26	4.50
<i>For Elevated Installation >15' To 20', Add</i>	3.37	
<i>For Elevated Installation >20' To 25', Add</i>	1.12	
<i>For Elevated Installation >25' To 30', Add</i>	2.25	
<i>For Elevated Installation >30' To 35', Add</i>	2.81	
<i>For Elevated Installation >35' To 40', Add</i>	3.93	
<i>For Elevated Installation >40', Add</i>	4.50	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.62	
	6.18	
	3.37	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0546 EA 1-1/4" Armored Cable Connector.....	15.40	5.62
For Work In Restricted Working Space, Add	4.22	
For Elevated Installation >10' To 15', Add	1.41	
For Elevated Installation >15' To 20', Add	2.81	
For Elevated Installation >20' To 25', Add	3.52	
For Elevated Installation >25' To 30', Add	4.92	
For Elevated Installation >30' To 35', Add	5.62	
For Elevated Installation >35' To 40', Add	7.03	
For Elevated Installation >40', Add	7.73	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.22	
26 05 19 16-0547 600 Volt, Feeder Wire, Single Stranded Copper <small>(26 05 19 16-0309)</small>		
26 05 19 16-0548 MLF #14 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	1,126.91	225.30
For EPR Insulation, Add	42.54	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	99.26	
26 05 19 16-0549 MLF #12 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	1,272.96	249.48
For EPR Insulation, Add	43.37	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	101.19	
26 05 19 16-0550 MLF #10 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	1,546.50	311.88
For EPR Insulation, Add	63.31	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	147.73	
26 05 19 16-0551 MLF #8 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	2,099.43	496.14
For EPR Insulation, Add	104.09	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	242.87	
26 05 19 16-0552 MLF #6 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	2,852.66	595.37
For EPR Insulation, Add	174.91	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	408.11	
26 05 19 16-0553 MLF #4 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	3,872.32	691.24
For EPR Insulation, Add	264.61	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	617.42	
26 05 19 16-0554 MLF #3 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	4,416.72	791.17
For EPR Insulation, Add	304.10	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	709.57	
26 05 19 16-0555 MLF #2 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	5,535.56	891.10
For EPR Insulation, Add	429.76	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	1,002.78	
26 05 19 16-0556 MLF #1 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	6,822.76	992.43
For EPR Insulation, Add	580.68	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	1,354.92	
26 05 19 16-0557 MLF 1/0 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	8,208.09	1,119.63
For EPR Insulation, Add	725.23	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	1,692.20	
26 05 19 16-0558 MLF 2/0 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	9,872.40	1,241.63
For EPR Insulation, Add	911.63	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	2,127.13	
26 05 19 16-0559 MLF 3/0 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	11,811.14	1,386.12
For EPR Insulation, Add	1,139.19	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	2,658.11	
26 05 19 16-0560 MLF 4/0 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	13,311.19	1,541.15
For EPR Insulation, Add	1,300.95	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	3,035.55	
26 05 19 16-0561 MLF 250 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	14,187.18	1,690.27
For EPR Insulation, Add	1,369.10	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	3,194.57	
26 05 19 16-0562 MLF 300 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	16,692.93	1,858.09
For EPR Insulation, Add	1,681.71	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	3,924.00	
26 05 19 16-0563 MLF 350 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	18,600.60	1,969.83
For EPR Insulation, Add	1,904.62	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	4,444.10	
26 05 19 16-0564 MLF 400 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	20,811.95	2,201.59
For EPR Insulation, Add	2,173.07	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	5,070.50	
26 05 19 16-0565 MLF 500 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	23,734.03	2,448.55
For EPR Insulation, Add	2,548.14	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	5,945.65	
26 05 19 16-0566 MLF 600 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	27,730.96	2,547.49
For EPR Insulation, Add	3,063.34	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	7,147.80	
26 05 19 16-0567 MLF 750 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	44,621.93	2,646.30
For EPR Insulation, Add	5,470.49	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	12,764.48	
26 05 19 16-0568 MLF 1,000 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	56,032.64	2,827.62
For EPR Insulation, Add	7,097.77	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	16,561.46	
26 05 19 16-0569 MLF #16 AWG, Type SFF-2, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	1,925.18	505.70
26 05 19 16-0570 MLF #14 AWG, Type SFF-2, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	2,386.21	562.21
26 05 19 16-0571 MLF #12 AWG, Type SFF-2, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	2,985.60	675.21
26 05 19 16-0572 MLF #10 AWG, Type SFF-2, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	3,535.77	786.81
26 05 19 16-0573 MLF #8 AWG, Type SFF-2, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	5,168.63	842.47
26 05 19 16-0574 MLF #18 AWG, Type TFFN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	651.27	281.10
26 05 19 16-0575 MLF #16 AWG, Type TFFN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	812.38	309.21
26 05 19 16-0576 MLF #14 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	842.98	225.44
26 05 19 16-0577 MLF #12 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	1,043.93	268.74



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0578 MLF #10 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	1,285.26	338.03
26 05 19 16-0579 MLF #8 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	1,789.55	445.54
26 05 19 16-0580 MLF #6 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	2,413.42	538.03
26 05 19 16-0581 MLF #4 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	3,163.89	635.85
26 05 19 16-0582 MLF #3 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	3,772.29	719.76
26 05 19 16-0583 MLF #2 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	4,493.00	806.07
26 05 19 16-0584 MLF #1 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	5,330.81	909.65
26 05 19 16-0585 MLF 1/0 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	6,199.86	996.09
26 05 19 16-0586 MLF 2/0 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	7,020.14	1,100.80
26 05 19 16-0587 MLF 3/0 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	8,287.12	1,164.32
26 05 19 16-0588 MLF 4/0 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	9,841.20	1,309.93
26 05 19 16-0589 MLF 250 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	11,518.32	1,393.56
26 05 19 16-0590 MLF 300 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	13,263.63	1,578.25
26 05 19 16-0591 MLF 350 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	15,135.81	1,746.63
26 05 19 16-0592 MLF 400 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	16,944.00	1,794.42
26 05 19 16-0593 MLF 500 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	20,040.37	1,898.42
26 05 19 16-0594 MLF 600 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	24,742.33	2,234.07
26 05 19 16-0595 MLF 750 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	37,570.10	2,646.30
26 05 19 16-0596 MLF 1,000 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	44,966.31	3,195.01
26 05 19 16-0597 MLF #16 AWG, Type TGGT High Temperature, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	3,144.53	675.21
26 05 19 16-0598 MLF #14 AWG, Type TGGT High Temperature, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	3,512.87	786.81
26 05 19 16-0599 MLF #12 AWG, Type TGGT High Temperature, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	4,064.53	900.23
26 05 19 16-0600 MLF #10 AWG, Type TGGT High Temperature, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	5,206.25	1,011.55
26 05 19 16-0601 MLF #8 AWG, Type TGGT High Temperature, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	5,888.82	1,124.41
26 05 19 16-0602 MLF #6 AWG, Type TGGT High Temperature, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	7,415.23	1,235.73
26 05 19 16-0603 600 Volt, Feeder Wire, Single Stranded Aluminum <small>(26 05 19 16-0309)</small>		
26 05 19 16-0604 MLF #6 AWG, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	1,457.74	398.72
26 05 19 16-0605 MLF #4 AWG, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	1,727.25	463.63
26 05 19 16-0606 MLF #2 AWG, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	2,259.01	595.14
26 05 19 16-0607 MLF #1 AWG, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	2,790.82	664.58
26 05 19 16-0608 MLF 1/0 AWG, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	3,227.32	748.75
26 05 19 16-0609 MLF 2/0 AWG, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	3,667.73	826.41
26 05 19 16-0610 MLF 3/0 AWG, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	4,321.45	932.64
26 05 19 16-0611 MLF 4/0 AWG, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	4,783.45	1,028.96
26 05 19 16-0612 MLF 250 MCM, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	5,527.18	1,131.15
26 05 19 16-0613 MLF 300 MCM, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	6,803.70	1,230.11
26 05 19 16-0614 MLF 350 MCM, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	7,112.74	1,329.04
26 05 19 16-0615 MLF 400 MCM, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	8,126.84	1,478.25
26 05 19 16-0616 MLF 500 MCM, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	8,956.18	1,627.41
26 05 19 16-0617 MLF 600 MCM, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	10,932.04	1,895.76
26 05 19 16-0618 MLF 700 MCM, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	12,344.63	2,078.28
26 05 19 16-0619 MLF 750 MCM, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	12,609.99	2,155.32
26 05 19 16-0620 MLF 1,000 MCM, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	17,288.20	2,614.53
26 05 19 16-0621 MLF #8 AWG, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	1,776.02	499.10
26 05 19 16-0622 MLF #6 AWG, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	1,997.44	562.21
26 05 19 16-0623 MLF #4 AWG, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	2,458.68	691.66
26 05 19 16-0624 MLF #2 AWG, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	3,110.03	847.81
26 05 19 16-0625 MLF #1 AWG, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	3,945.57	998.06
26 05 19 16-0626 MLF 1/0 AWG, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	4,552.78	1,124.83
26 05 19 16-0627 MLF 2/0 AWG, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	5,180.36	1,249.36
26 05 19 16-0628 MLF 3/0 AWG, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	5,962.89	1,363.07
26 05 19 16-0629 MLF 4/0 AWG, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	6,465.99	1,450.63
26 05 19 16-0630 MLF 250 MCM, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	7,346.59	1,552.11
26 05 19 16-0631 MLF 300 MCM, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	8,946.49	1,663.42
26 05 19 16-0632 MLF 350 MCM, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	9,359.31	1,796.95
26 05 19 16-0633 MLF 400 MCM, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	10,589.27	1,959.57
26 05 19 16-0634 MLF 500 MCM, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	11,898.58	2,248.82
26 05 19 16-0635 MLF 600 MCM, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	13,869.19	2,366.60
26 05 19 16-0636 MLF 700 MCM, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	15,418.13	2,495.07
26 05 19 16-0637 MLF 750 MCM, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	15,903.35	2,651.64
26 05 19 16-0638 MLF 1,000 MCM, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	23,097.49	3,716.18
26 05 19 16-0639 MLF #6 AWG, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	1,988.66	562.21
26 05 19 16-0640 MLF #4 AWG, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	2,478.35	691.52
26 05 19 16-0641 MLF #2 AWG, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	3,088.73	848.93
26 05 19 16-0642 MLF #1 AWG, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	3,863.81	992.43
26 05 19 16-0643 MLF 1/0 AWG, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	4,365.15	1,119.63
26 05 19 16-0644 MLF 2/0 AWG, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	4,936.84	1,241.63
26 05 19 16-0645 MLF 3/0 AWG, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	5,706.98	1,363.07
26 05 19 16-0646 MLF 4/0 AWG, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	6,225.76	1,450.63
26 05 19 16-0647 MLF 250 MCM, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	7,043.46	1,551.13
26 05 19 16-0648 MLF 300 MCM, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	8,495.71	1,665.54
26 05 19 16-0649 MLF 350 MCM, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	8,996.91	1,799.34
26 05 19 16-0650 MLF 400 MCM, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	9,952.80	1,955.07
26 05 19 16-0651 MLF 500 MCM, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	11,453.44	2,248.82
26 05 19 16-0652 MLF 600 MCM, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	13,064.89	2,360.28
26 05 19 16-0653 MLF 700 MCM, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	14,468.38	2,495.07
26 05 19 16-0654 MLF 750 MCM, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	15,039.69	2,643.63



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0655				Non-Metallic Sheathed Cable <small>(26 05 19 16-0309)</small>		
26 05 19 16-0656				Indoor Installation <small>(26 05 19 16-0655)</small>		
				Note: For NM, NM-B, NMC-B and NMS-B.		
26 05 19 16-0657	MLF	#14	AWG, 2	Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable <i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	3,323.82 400.51	1,068.05
26 05 19 16-0658	MLF	#14	AWG, 3	Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable <i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	4,129.11 484.92	1,293.07
26 05 19 16-0659	MLF	#14	AWG, 4	Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable <i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	5,667.33 536.55	1,430.82
26 05 19 16-0660	MLF	#12	AWG, 2	Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable <i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	4,009.80 432.20	1,214.36
26 05 19 16-0661	MLF	#12	AWG, 3	Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable <i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	5,505.25 505.90	1,349.01
26 05 19 16-0662	MLF	#12	AWG, 4	Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable <i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	7,064.99 565.02	1,506.71
26 05 19 16-0663	MLF	#10	AWG, 2	Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable <i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	4,931.38 506.16	1,349.71
26 05 19 16-0664	MLF	#10	AWG, 3	Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable <i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	7,333.43 590.42	1,574.46
26 05 19 16-0665	MLF	#10	AWG, 4	Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable <i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	8,675.98 674.65	1,799.06
26 05 19 16-0666	MLF	#8	AWG, 2	Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable <i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	8,417.59 575.56	1,616.34
26 05 19 16-0667	MLF	#8	AWG, 3	Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable <i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	10,661.33 695.73	1,953.67
26 05 19 16-0668	MLF	#6	AWG, 2	Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable <i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	10,803.80 653.56	1,841.22
26 05 19 16-0669	MLF	#6	AWG, 3	Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable <i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	14,238.93 790.60	2,220.71
26 05 19 16-0670	MLF	#4	AWG, 3	Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable <i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	30,740.98 869.66	2,445.59
26 05 19 16-0671	MLF	#2	AWG, 3	Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable <i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	35,713.77 948.72	2,656.42
26 05 19 16-0672				Direct Burial Cable <small>(26 05 19 16-0655)</small>		
				Note: Excludes trench and backfill. For NM, NM-B, NMC-B and NMS-B. Copper.		
26 05 19 16-0673	MLF	#14	AWG, 2	Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench	3,125.17	
26 05 19 16-0674	MLF	#14	AWG, 3	Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench	4,052.19	
26 05 19 16-0675	MLF	#12	AWG, 2	Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench	3,950.10	
26 05 19 16-0676	MLF	#12	AWG, 3	Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench	4,986.62	
26 05 19 16-0677	MLF	#10	AWG, 2	Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench	4,256.36	
26 05 19 16-0678	MLF	#10	AWG, 3	Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench	5,998.68	
26 05 19 16-0679	MLF	#8	AWG, 2	Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench	6,380.22	
26 05 19 16-0680	MLF	#8	AWG, 3	Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench	8,116.79	
26 05 19 16-0681	MLF	#6	AWG, 2	Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench	7,988.02	
26 05 19 16-0682	MLF	#6	AWG, 3	Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench	10,407.63	
26 05 19 16-0683				SEU Cable Copper, 3 Conductor <small>(26 05 19 16-0655)</small>		
26 05 19 16-0684	MLF	12-12-12	Cable	SEU Copper	4,130.81	1,354.09
26 05 19 16-0685	MLF	10-10-10	Cable	SEU Copper	5,178.53	1,538.21
26 05 19 16-0686	MLF	8-8-8	Cable	SEU Copper	6,436.97	1,722.49
26 05 19 16-0687	MLF	6-6-8	Cable	SEU Copper	7,766.05	1,846.63
26 05 19 16-0688	MLF	6-6-6	Cable	SEU Copper	8,351.62	1,908.46
26 05 19 16-0689	MLF	4-4-6	Cable	SEU Copper	10,173.74	2,092.74
26 05 19 16-0690	MLF	4-4-4	Cable	SEU Copper	10,959.36	2,154.43
26 05 19 16-0691	MLF	3-3-5	Cable	SEU Copper	12,755.62	2,337.78
26 05 19 16-0692	MLF	3-3-3	Cable	SEU Copper	13,548.08	2,461.14
26 05 19 16-0693	MLF	2-2-4	Cable	SEU Copper	14,471.87	2,585.28
26 05 19 16-0694	MLF	2-2-2	Cable	SEU Copper	15,471.06	2,708.18
26 05 19 16-0695	MLF	1-1-1	Cable	SEU Copper	18,931.81	3,076.43
26 05 19 16-0696	MLF	1/0-1/0-1/0	Cable	SEU Copper	22,525.62	3,448.99
26 05 19 16-0697	MLF	2/0-2/0-2/0	Cable	SEU Copper	27,119.52	3,884.46
26 05 19 16-0698	MLF	3/0-3/0-3/0	Cable	SEU Copper	32,620.76	4,320.85
26 05 19 16-0699	MLF	4/0-4/0-4/0	Cable	SEU Copper	36,455.34	4,822.00
26 05 19 16-0700				SEU Cable Aluminum, 3 Conductor <small>(26 05 19 16-0655)</small>		
26 05 19 16-0701	MLF	8-8-8	Cable	SEU Aluminum	5,360.08	1,728.33
26 05 19 16-0702	MLF	6-6-6	Cable	SEU Aluminum	6,083.73	1,899.08
26 05 19 16-0703	MLF	4-4-6	Cable	SEU Aluminum	6,812.16	2,078.75
26 05 19 16-0704	MLF	4-4-4	Cable	SEU Aluminum	7,129.35	2,166.58
26 05 19 16-0705	MLF	2-2-4	Cable	SEU Aluminum	8,519.46	2,563.74
26 05 19 16-0706	MLF	2-2-2	Cable	SEU Aluminum	9,035.17	2,698.65

26 Electrical**26 05 Common Work Results for Electrical****26 05 19 Low-Voltage Electrical Power Conductors and Cables**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0707 MLF 1-1-1 Cable SEU Aluminum.....	10,792.49	3,076.43
26 05 19 16-0708 MLF 1/0-1/0-2 Cable SEU Aluminum.....	11,417.73	3,238.41
26 05 19 16-0709 MLF 1/0-1/0-1/0 Cable SEU Aluminum.....	13,687.90	3,418.22
26 05 19 16-0710 MLF 2/0-2/0-1 Cable SEU Aluminum.....	12,893.54	3,662.49
26 05 19 16-0711 MLF 2/0-2/0-2/0 Cable SEU Aluminum.....	13,612.18	3,845.54
26 05 19 16-0712 MLF 3/0-3/0-1/0 Cable SEU Aluminum.....	14,769.12	4,026.74
26 05 19 16-0713 MLF 3/0-3/0-3/0 Cable SEU Aluminum.....	15,787.67	4,272.85
26 05 19 16-0714 MLF 4/0-4/0-2/0 Cable SEU Aluminum.....	16,707.64	4,619.26
26 05 19 16-0715 MLF 4/0-4/0-4/0 Cable SEU Aluminum.....	17,619.35	4,806.92
26 05 19 16-0716 SER Cable Copper, 4 Conductor <small>(26 05 19 16-0655)</small>		
26 05 19 16-0717 MLF 6-6-6-6 Cable SER Copper.....	11,923.61	2,216.42
26 05 19 16-0718 MLF 4-4-4-6 Cable SER Copper.....	13,063.27	2,399.77
26 05 19 16-0719 MLF 3-3-3-5 Cable SER Copper.....	16,088.01	2,708.18
26 05 19 16-0720 MLF 2-2-2-4 Cable SER Copper.....	18,361.96	2,952.45
26 05 19 16-0721 MLF 1-1-1-3 Cable SER Copper.....	21,378.65	3,380.69
26 05 19 16-0722 MLF 1/0-1/0-1/0-2 Cable SER Copper.....	25,946.33	3,874.61
26 05 19 16-0723 MLF 2/0-2/0-2/0-1 Cable SER Copper.....	32,253.15	4,179.94
26 05 19 16-0724 MLF 3/0-3/0-3/0-1/0 Cable SER Copper.....	37,196.33	4,675.41
26 05 19 16-0725 SER Cable Aluminum, 4 Conductor <small>(26 05 19 16-0655)</small>		
26 05 19 16-0726 MLF 8-8-8-8 Cable SER Aluminum.....	7,046.59	2,068.75
26 05 19 16-0727 MLF 6-6-6-6 Cable SER Aluminum.....	7,689.56	2,216.42
26 05 19 16-0728 MLF 4-4-4-6 Cable SER Aluminum.....	8,622.56	2,399.77
26 05 19 16-0729 MLF 2-2-2-4 Cable SER Aluminum.....	10,874.79	2,952.45
26 05 19 16-0730 MLF 1-1-1-3 Cable SER Aluminum.....	13,124.75	3,380.69
26 05 19 16-0731 MLF 1/0-1/0-1/0-2 Cable SER Aluminum.....	14,817.08	3,874.61
26 05 19 16-0732 MLF 2/0-2/0-2/0-1 Cable SER Aluminum.....	16,607.31	4,179.94
26 05 19 16-0733 MLF 3/0-3/0-3/0-1/0 Cable SER Aluminum.....	18,922.62	4,675.41
26 05 19 16-0734 MLF 4/0-4/0-4/0-2/0 Cable SER Aluminum.....	21,506.90	5,209.78
26 05 19 16-0735 Control Tray Cable, Low Voltage <small>(26 05 19 16-0011)</small>		
Note: Type "TC" multi-conductor (individually numbered conductors) control cables installed in conduit.		
26 05 19 16-0736 MLF 2 Conductor #18 AWG, Stranded, Type TC Control Cable.....	1,335.07	681.82
<i>For Work In Restricted Working Space, Add</i>	<i>340.91</i>	
26 05 19 16-0737 MLF 3 Conductor #18 AWG, Stranded, Type TC Control Cable.....	1,526.63	762.69
<i>For Work In Restricted Working Space, Add</i>	<i>381.35</i>	
26 05 19 16-0738 MLF 4 Conductor #18 AWG, Stranded, Type TC Control Cable.....	1,578.68	762.63
<i>For Work In Restricted Working Space, Add</i>	<i>381.35</i>	
26 05 19 16-0739 MLF 5 Conductor #18 AWG, Stranded, Type TC Control Cable.....	1,977.50	956.57
<i>For Work In Restricted Working Space, Add</i>	<i>478.28</i>	
26 05 19 16-0740 MLF 7 Conductor #18 AWG, Stranded, Type TC Control Cable.....	2,467.93	1,165.67
<i>For Work In Restricted Working Space, Add</i>	<i>582.83</i>	
26 05 19 16-0741 MLF 9 Conductor #18 AWG, Stranded, Type TC Control Cable.....	2,789.29	1,281.83
<i>For Work In Restricted Working Space, Add</i>	<i>640.91</i>	
26 05 19 16-0742 MLF 12 Conductor #18 AWG, Stranded, Type TC Control Cable.....	3,279.08	1,456.48
<i>For Work In Restricted Working Space, Add</i>	<i>728.24</i>	
26 05 19 16-0743 MLF 15 Conductor #18 AWG, Stranded, Type TC Control Cable.....	4,111.99	1,780.23
<i>For Work In Restricted Working Space, Add</i>	<i>890.11</i>	
26 05 19 16-0744 MLF 19 Conductor #18 AWG, Stranded, Type TC Control Cable.....	4,646.80	1,942.14
<i>For Work In Restricted Working Space, Add</i>	<i>971.07</i>	
26 05 19 16-0745 MLF 25 Conductor #18 AWG, Stranded, Type TC Control Cable.....	5,334.66	2,002.85
<i>For Work In Restricted Working Space, Add</i>	<i>1,001.43</i>	
26 05 19 16-0746 MLF 30 Conductor #18 AWG, Stranded, Type TC Control Cable.....	6,568.88	2,502.09
<i>For Work In Restricted Working Space, Add</i>	<i>1,251.05</i>	
26 05 19 16-0747 MLF 37 Conductor #18 AWG, Stranded, Type TC Control Cable.....	7,835.35	2,924.17
<i>For Work In Restricted Working Space, Add</i>	<i>1,462.09</i>	
26 05 19 16-0748 MLF 2 Conductor #16 AWG, Stranded, Type TC Control Cable.....	1,444.49	718.22
<i>For Work In Restricted Working Space, Add</i>	<i>358.83</i>	
26 05 19 16-0749 MLF 3 Conductor #16 AWG, Stranded, Type TC Control Cable.....	1,657.41	802.83
<i>For Work In Restricted Working Space, Add</i>	<i>401.42</i>	
26 05 19 16-0750 MLF 4 Conductor #16 AWG, Stranded, Type TC Control Cable.....	1,924.86	924.26
<i>For Work In Restricted Working Space, Add</i>	<i>462.14</i>	
26 05 19 16-0751 MLF 5 Conductor #16 AWG, Stranded, Type TC Control Cable.....	2,157.21	1,006.91
<i>For Work In Restricted Working Space, Add</i>	<i>503.45</i>	
26 05 19 16-0752 MLF 7 Conductor #16 AWG, Stranded, Type TC Control Cable.....	2,701.47	1,227.01
<i>For Work In Restricted Working Space, Add</i>	<i>613.51</i>	
26 05 19 16-0753 MLF 9 Conductor #16 AWG, Stranded, Type TC Control Cable.....	3,064.95	1,349.29
<i>For Work In Restricted Working Space, Add</i>	<i>674.65</i>	
26 05 19 16-0754 MLF 12 Conductor #16 AWG, Stranded, Type TC Control Cable.....	3,619.74	1,533.13
<i>For Work In Restricted Working Space, Add</i>	<i>766.57</i>	
26 05 19 16-0755 MLF 15 Conductor #16 AWG, Stranded, Type TC Control Cable.....	4,554.24	1,873.84
<i>For Work In Restricted Working Space, Add</i>	<i>936.92</i>	
26 05 19 16-0756 MLF 19 Conductor #16 AWG, Stranded, Type TC Control Cable.....	5,169.34	2,044.18
<i>For Work In Restricted Working Space, Add</i>	<i>1,022.09</i>	
26 05 19 16-0757 MLF 25 Conductor #16 AWG, Stranded, Type TC Control Cable.....	6,009.49	2,108.27
<i>For Work In Restricted Working Space, Add</i>	<i>1,054.13</i>	
26 05 19 16-0758 MLF 30 Conductor #16 AWG, Stranded, Type TC Control Cable.....	7,387.82	2,633.65
<i>For Work In Restricted Working Space, Add</i>	<i>1,316.83</i>	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0759 MLF 37 Conductor #16 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	8,832.28 1,539.04	3,078.08
26 05 19 16-0760 MLF 2 Conductor #14 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	1,551.11 374.85	749.70
26 05 19 16-0761 MLF 3 Conductor #14 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	1,825.41 421.66	843.31
26 05 19 16-0762 MLF 4 Conductor #14 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	2,126.93 481.95	963.90
26 05 19 16-0763 MLF 5 Conductor #14 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	2,368.90 519.06	1,038.11
26 05 19 16-0764 MLF 7 Conductor #14 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	3,096.73 636.28	1,272.55
26 05 19 16-0765 MLF 9 Conductor #14 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	3,537.63 702.90	1,405.52
26 05 19 16-0766 MLF 12 Conductor #14 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	4,258.35 784.28	1,568.55
26 05 19 16-0767 MLF 15 Conductor #14 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	5,086.50 936.92	1,873.54
26 05 19 16-0768 MLF 19 Conductor #14 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	8,074.96 1,088.29	2,177.14
26 05 19 16-0769 MLF 25 Conductor #14 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	7,484.11 1,272.97	2,545.38
26 05 19 16-0770 MLF 30 Conductor #14 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	8,638.72 1,422.24	2,844.48
26 05 19 16-0771 MLF 37 Conductor #14 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	10,353.34 1,662.16	3,324.32
26 05 19 16-0772 MLF 2 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	1,769.77 401.42	802.83
26 05 19 16-0773 MLF 3 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	2,077.32 444.00	888.28
26 05 19 16-0774 MLF 4 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	2,495.96 511.04	1,022.09
26 05 19 16-0775 MLF 5 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	2,788.92 543.93	1,087.87
26 05 19 16-0776 MLF 7 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	3,604.70 648.50	1,297.01
26 05 19 16-0777 MLF 9 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	4,412.22 766.57	1,533.13
26 05 19 16-0778 MLF 12 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	5,295.62 864.81	1,729.63
26 05 19 16-0779 MLF 15 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	6,264.18 992.15	1,984.31
26 05 19 16-0780 MLF 19 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	7,356.04 1,124.55	2,249.11
26 05 19 16-0781 MLF 25 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	9,289.61 1,314.30	2,628.59
26 05 19 16-0782 MLF 30 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	10,772.26 1,536.08	3,072.17
26 05 19 16-0783 MLF 37 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	12,963.25 1,795.40	3,590.81
26 05 19 16-0784 MLF 2 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	2,050.15 421.66	843.31
26 05 19 16-0785 MLF 3 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	2,492.60 462.14	924.82
26 05 19 16-0786 MLF 4 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	2,998.83 527.07	1,054.13
26 05 19 16-0787 MLF 5 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	3,443.52 571.76	1,143.52
26 05 19 16-0788 MLF 7 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	4,604.02 717.65	1,435.31
26 05 19 16-0789 MLF 9 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	5,409.78 803.25	1,606.50
26 05 19 16-0790 MLF 12 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	6,304.78 936.92	1,873.84
26 05 19 16-0791 MLF 15 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	7,415.51 1,071.42	2,142.84
26 05 19 16-0792 MLF 19 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	8,737.68 1,214.36	2,428.73
26 05 19 16-0793 MLF 25 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	11,112.17 1,419.29	2,838.58
26 05 19 16-0794 MLF 30 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	12,876.86 1,658.79	3,317.58
26 05 19 16-0795 MLF 37 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	15,536.10 1,939.19	3,878.37
26 05 19 16-0796 ACSR (Aluminum Conductor Steel Reinforced) <small>(26 05 19 16-0011)</small> Note: Concentric lay stranded Class A galvanizing installed on poles, aerially.		
26 05 19 16-0797 ACSR Cable <small>(26 05 19 16-0796)</small>		
26 05 19 16-0798 MLF #4 AWG, ACSR Cable Swan 6/1, Aluminum Cable, Installed On Poles (Aerial)	2,467.31	688.28
26 05 19 16-0799 MLF #4 AWG, ACSR Cable Swanate 7/1, Aluminum Cable, Installed On Poles (Aerial)	2,670.53	714.69
26 05 19 16-0800 MLF #2 AWG, ACSR Cable Sparrow 6/1, Aluminum Cable, Installed On Poles (Aerial)	2,974.61	742.20
26 05 19 16-0801 MLF #2 AWG, ACSR Cable Sparate 7/1, Aluminum Cable, Installed On Poles (Aerial)	3,177.90	769.07

26 Electrical
26 05 Common Work Results for Electrical
26 05 19 Low-Voltage Electrical Power Conductors and Cables



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0802 MLF 1/0 AWG, ACSR Cable Raven 6/1, Aluminum Cable, Installed On Poles (Aerial).....	3,724.06	795.16
26 05 19 16-0803 MLF 2/0 AWG, ACSR Cable Quail 6/1, Aluminum Cable, Installed On Poles (Aerial).....	4,414.03	901.39
26 05 19 16-0804 MLF 3/0 AWG, ACSR Cable Pigeon 6/1, Aluminum Cable, Installed On Poles (Aerial).....	5,216.97	1,005.23
26 05 19 16-0805 MLF 4/0 AWG, ACSR Cable Penguin 6/1, Aluminum Cable, Installed On Poles (Aerial).....	6,136.67	1,110.52
26 05 19 16-0806 MLF 336 AWG ACSR Cable Merlin 18/1, Aluminum Cable, Installed On Poles (Aerial).....	6,810.86	1,427.15
26 05 19 16-0807 MLF 477 AWG, ACSR Cable Hawk 26/1, Aluminum Cable, Installed On Poles (Aerial).....	7,706.27	1,637.06
26 05 19 16-0808 All Aluminum Conductors (26 05 19 16-0796)		
26 05 19 16-0809 MLF 795.0 ACSR Conductor Aluminum	49,926.36	13,394.67
26 05 19 16-0810 Single Conductor Installed On Poles (26 05 19 16-0011)		
26 05 19 16-0811 Bare Stranded Conductor (26 05 19 16-0810)		
26 05 19 16-0812 MLF #12 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	1,684.70	583.17
26 05 19 16-0813 MLF #10 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	1,941.70	635.65
26 05 19 16-0814 MLF #8 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	2,200.39	688.76
26 05 19 16-0815 MLF #6 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	2,627.08	742.20
26 05 19 16-0816 MLF #4 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	3,122.35	795.79
26 05 19 16-0817 MLF #2 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	4,346.77	954.50
26 05 19 16-0818 MLF #1 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	4,970.33	1,060.26
26 05 19 16-0819 MLF 1/0 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	5,641.12	1,164.10
26 05 19 16-0820 MLF 2/0 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	7,443.51	1,380.71
26 05 19 16-0821 MLF 3/0 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	8,973.20	1,587.45
26 05 19 16-0822 MLF 4/0 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	9,695.49	1,799.12
26 05 19 16-0823 MLF 250 MCM, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	12,166.64	2,120.36
26 05 19 16-0824 MLF 300 MCM, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	12,488.17	2,232.00
26 05 19 16-0825 MLF 350 MCM, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	15,288.31	2,337.43
26 05 19 16-0826 MLF 400 MCM, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	16,793.86	2,433.33
26 05 19 16-0827 MLF 500 MCM, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	19,376.14	2,537.18
26 05 19 16-0828 Insulated Stranded Conductor (26 05 19 16-0810)		
26 05 19 16-0829 MLF #12 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	1,789.51	583.17
26 05 19 16-0830 MLF #10 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	2,076.93	635.65
26 05 19 16-0831 MLF #8 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	2,467.35	688.76
26 05 19 16-0832 MLF #6 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	2,677.61	742.20
26 05 19 16-0833 MLF #4 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	3,199.44	795.79
26 05 19 16-0834 MLF #2 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	4,235.43	954.50
26 05 19 16-0835 MLF #1 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	4,959.22	1,060.26
26 05 19 16-0836 MLF 1/0 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	5,796.14	1,164.10
26 05 19 16-0837 MLF 2/0 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	6,967.46	1,380.71
26 05 19 16-0838 MLF 3/0 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	8,309.63	1,587.45
26 05 19 16-0839 MLF 4/0 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	9,747.26	1,799.12
26 05 19 16-0840 MLF 250 MCM, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	11,849.91	2,120.36
26 05 19 16-0841 MLF 300 MCM, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	13,326.55	2,232.00
26 05 19 16-0842 MLF 350 MCM, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	14,540.44	2,337.43
26 05 19 16-0843 MLF 400 MCM, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	16,173.78	2,433.33
26 05 19 16-0844 MLF 500 MCM, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	18,057.24	2,537.18
26 05 19 16-0845 Bare Solid Conductor (26 05 19 16-0810)		
26 05 19 16-0846 MLF #12 AWG, Single Conductor, Bare Solid Copper Cable, Installed On Poles.....	1,684.70	583.17
26 05 19 16-0847 MLF #8 AWG, Single Conductor, Bare Solid Copper Cable, Installed On Poles.....	2,200.39	688.76
26 05 19 16-0848 MLF #6 AWG, Single Conductor, Bare Solid Copper Cable, Installed On Poles.....	2,627.08	742.20
26 05 19 16-0849 MLF #4 AWG, Single Conductor, Bare Solid Copper Cable, Installed On Poles.....	3,090.49	795.79
26 05 23 Control-Voltage Electrical Power Cables (26 05)		
26 05 23 00-0001 Cable For HVAC System Controls (26 05 23)		
26 05 23 00-0002 Low Voltage Thermostat Cable To 300 Volt (26 05 23 00-0001)		
Note: For surface or conduit installation.		
26 05 23 00-0003 MLF #20/2 Conductor, Low Volt Thermostat Cable	583.12	179.20
26 05 23 00-0004 MLF #20/3 Conductor, Low Volt Thermostat Cable	659.39	188.76
26 05 23 00-0005 MLF #20/4 Conductor, Low Volt Thermostat Cable	712.62	199.58
26 05 23 00-0006 MLF #20/5 Conductor, Low Volt Thermostat Cable	840.68	208.02
26 05 23 00-0007 MLF #20/6 Conductor, Low Volt Thermostat Cable	880.01	217.86
26 05 23 00-0008 MLF #20/7 Conductor, Low Volt Thermostat Cable	964.36	226.92
26 05 23 00-0009 MLF #20/8 Conductor, Low Volt Thermostat Cable	1,038.19	235.98
26 05 23 00-0010 MLF #20/9 Conductor, Low Volt Thermostat Cable	1,122.83	245.40
26 05 23 00-0011 MLF #20/10 Conductor, Low Volt Thermostat Cable	1,203.47	252.77
26 05 23 00-0012 MLF #18/2 Conductor, Low Volt Thermostat Cable	627.07	179.20
26 05 23 00-0013 MLF #18/3 Conductor, Low Volt Thermostat Cable	737.79	188.76
26 05 23 00-0014 MLF #18/4 Conductor, Low Volt Thermostat Cable	837.01	199.58
26 05 23 00-0015 MLF #18/5 Conductor, Low Volt Thermostat Cable	892.04	208.02
26 05 23 00-0016 MLF #18/6 Conductor, Low Volt Thermostat Cable	983.16	217.86
26 05 23 00-0017 MLF #18/7 Conductor, Low Volt Thermostat Cable	1,011.72	226.92
26 05 23 00-0018 MLF #18/8 Conductor, Low Volt Thermostat Cable	1,110.47	235.98



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
-------	-----	-----	-------------	------------------------	----------------------

26 05 23 00-0019	MLF	#18/9 Conductor, Low Volt Thermostat Cable		1,296.25	245.40
26 05 23 00-0020	MLF	#18/10 Conductor, Low Volt Thermostat Cable		1,417.36	252.77

26 05 26 Grounding and Bonding for Electrical Systems (26 05)

26 05 26 00-0001 Conductors, Straps And Conduit Jumpers (26 05 26)

26 05 26 00-0002 Single Conductor (26 05 26 00-0001)

26 05 26 00-0003 Copper Bare Stranded Conductors (26 05 26 00-0002)

26 05 26 00-0004	MLF	12 AWG Copper Bare Single Stranded Conductor		690.92	269.90
26 05 26 00-0005	MLF	10 AWG Copper Bare Single Stranded Conductor		897.81	269.90
26 05 26 00-0006	MLF	8 AWG Copper Bare Single Stranded Conductor		1,105.79	325.12
26 05 26 00-0007	MLF	6 AWG Copper Bare Single Stranded Conductor		1,490.70	325.12
26 05 26 00-0008	MLF	4 AWG Copper Bare Single Stranded Conductor		1,975.16	392.59
26 05 26 00-0009	MLF	2 AWG Copper Bare Single Stranded Conductor		3,060.05	392.59
26 05 26 00-0010	MLF	1 AWG Copper Bare Single Stranded Conductor		3,529.43	472.34
26 05 26 00-0011	MLF	1/0 AWG Copper Bare Single Stranded Conductor		4,135.90	472.34
26 05 26 00-0012	MLF	2/0 AWG Copper Bare Single Stranded Conductor		5,753.57	595.02
26 05 26 00-0013	MLF	3/0 AWG Copper Bare Single Stranded Conductor		7,072.40	595.02
26 05 26 00-0014	MLF	4/0 AWG Copper Bare Single Stranded Conductor		7,530.28	791.32
26 05 26 00-0015	MLF	250 MCM Copper Bare Single Stranded Conductor		9,623.62	791.32
26 05 26 00-0016	MLF	300 MCM Copper Bare Single Stranded Conductor		9,673.05	914.00
26 05 26 00-0017	MLF	350 MCM Copper Bare Single Stranded Conductor		12,961.61	914.00
26 05 26 00-0018	MLF	500 MCM Copper Bare Single Stranded Conductor		17,645.70	1,128.70

26 05 26 00-0019 Copper Insulated Single Stranded Conductors (26 05 26 00-0002)

26 05 26 00-0020	MLF	12 AWG Copper Insulated Single Stranded Conductor		1,245.01	368.06
26 05 26 00-0021	MLF	10 AWG Copper Insulated Single Stranded Conductor		1,339.49	368.06
26 05 26 00-0022	MLF	8 AWG Copper Insulated Single Stranded Conductor		1,704.97	368.06
26 05 26 00-0023	MLF	6 AWG Copper Insulated Single Stranded Conductor		1,947.75	637.96
26 05 26 00-0024	MLF	4 AWG Copper Insulated Single Stranded Conductor		2,610.92	637.96
26 05 26 00-0025	MLF	2 AWG Copper Insulated Single Stranded Conductor		3,658.37	637.96
26 05 26 00-0026	MLF	1 AWG Copper Insulated Single Stranded Conductor		4,406.95	1,116.43
26 05 26 00-0027	MLF	1/0 AWG Copper Insulated Single Stranded Conductor		5,361.97	1,116.43
26 05 26 00-0028	MLF	2/0 AWG Copper Insulated Single Stranded Conductor		6,261.95	1,116.43
26 05 26 00-0029	MLF	3/0 AWG Copper Insulated Single Stranded Conductor		7,430.72	1,116.43
26 05 26 00-0030	MLF	4/0 AWG Copper Insulated Single Stranded Conductor		8,739.57	1,459.95
26 05 26 00-0031	MLF	250 MCM Copper Insulated Single Stranded Conductor		10,530.52	1,459.95
26 05 26 00-0032	MLF	300 MCM Copper Insulated Single Stranded Conductor		12,239.45	1,459.95
26 05 26 00-0033	MLF	350 MCM Copper Insulated Single Stranded Conductor		14,389.60	2,269.67
26 05 26 00-0034	MLF	500 MCM Copper Insulated Single Stranded Conductor		18,711.81	2,269.67

26 05 26 00-0035 Copper Bare Single Solid Conductors (26 05 26 00-0002)

26 05 26 00-0036	MLF	12 AWG Copper Bare Single Solid Conductor		690.92	269.90
26 05 26 00-0037	MLF	10 AWG Copper Bare Single Solid Conductor		897.81	269.90
26 05 26 00-0038	MLF	8 AWG Copper Bare Single Solid Conductor		1,105.79	325.12
26 05 26 00-0039	MLF	6 AWG Copper Bare Single Solid Conductor		1,490.70	325.12
26 05 26 00-0040	MLF	4 AWG Copper Bare Single Solid Conductor		1,975.16	392.59
26 05 26 00-0041	MLF	2 AWG Copper Bare Single Solid Conductor		3,060.05	392.59
26 05 26 00-0042	MLF	1/0 AWG Copper Bare Single Solid Conductor		4,135.90	472.34
26 05 26 00-0043	MLF	4/0 AWG Copper Bare Single Solid Conductor		7,530.28	625.70

26 05 26 00-0044 Aluminum Bare Single Stranded Conductors (26 05 26 00-0002)

26 05 26 00-0045	MLF	8 AWG Aluminum Bare Single Stranded Conductor		861.69	325.12
26 05 26 00-0046	MLF	6 AWG Aluminum Bare Single Stranded Conductor		952.36	325.12
26 05 26 00-0047	MLF	4 AWG Aluminum Bare Single Stranded Conductor		1,093.23	392.59
26 05 26 00-0048	MLF	2 AWG Aluminum Bare Single Stranded Conductor		1,382.67	392.59
26 05 26 00-0049	MLF	1 AWG Aluminum Bare Single Stranded Conductor		1,612.17	472.34
26 05 26 00-0050	MLF	1/0 AWG Aluminum Bare Single Stranded Conductor		1,846.86	472.34
26 05 26 00-0051	MLF	2/0 AWG Aluminum Bare Single Stranded Conductor		2,113.51	595.02
26 05 26 00-0052	MLF	3/0 AWG Aluminum Bare Single Stranded Conductor		2,441.82	595.02
26 05 26 00-0053	MLF	4/0 AWG Aluminum Bare Single Stranded Conductor		2,902.29	791.32
26 05 26 00-0054	MLF	250 MCM Aluminum Bare Single Stranded Conductor		3,266.08	791.32
26 05 26 00-0055	MLF	300 MCM Aluminum Bare Single Stranded Conductor		3,924.22	914.00
26 05 26 00-0056	MLF	350 MCM Aluminum Bare Single Stranded Conductor		4,481.63	914.00
26 05 26 00-0057	MLF	500 MCM Aluminum Bare Single Stranded Conductor		5,265.41	1,128.70

26 05 26 00-0058 Aluminum Bare Single Solid Conductors (26 05 26 00-0002)

26 05 26 00-0059	MLF	8 AWG Aluminum Bare Single Solid Conductor		861.69	325.12
26 05 26 00-0060	MLF	6 AWG Aluminum Bare Single Solid Conductor		952.36	325.12
26 05 26 00-0061	MLF	4 AWG Aluminum Bare Single Solid Conductor		1,093.23	392.59
26 05 26 00-0062	MLF	2 AWG Aluminum Bare Single Solid Conductor		1,382.67	392.59
26 05 26 00-0063	MLF	1 AWG Aluminum Bare Single Solid Conductor		1,562.66	625.70
26 05 26 00-0064	MLF	1/0 AWG Aluminum Bare Single Solid Conductor		1,846.86	625.70
26 05 26 00-0065	MLF	2/0 AWG Aluminum Bare Single Solid Conductor		1,990.86	595.02

26 Electrical
26 05 Common Work Results for Electrical
26 05 26 Grounding and Bonding for Electrical Systems



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 26 00-0066 MLF 3/0 AWG Aluminum Bare Single Solid Conductor	2,194.85	595.02
26 05 26 00-0067 MLF 4/0 AWG Aluminum Bare Single Solid Conductor	2,902.29	791.32
26 05 26 00-0068 MLF 250 MCM Aluminum Bare Single Solid Conductor	3,266.08	791.32
26 05 26 00-0069 MLF 300 MCM Aluminum Bare Single Solid Conductor	3,924.22	914.00
26 05 26 00-0070 MLF 350 MCM Aluminum Bare Single Solid Conductor	4,481.63	914.00
26 05 26 00-0071 MLF 500 MCM Aluminum Bare Single Solid Conductor	5,265.41	1,128.70
26 05 26 00-0072 Aluminum Smooth Woven Conductors (26 05 26 00-0002)		
26 05 26 00-0073 LF 10 Strand x 14 AWG Smooth Weave Aluminum Conductor	3.47	1.06
26 05 26 00-0074 LF 16 Strand x 14 AWG Smooth Weave Aluminum Conductor	3.83	1.17
26 05 26 00-0075 LF 24 Strand x 14 AWG Smooth Weave Aluminum Conductor	4.54	1.34
26 05 26 00-0076 LF 26 Strand x 14 AWG Smooth Weave Aluminum Conductor	4.57	1.37
26 05 26 00-0077 LF 28 Strand x 14 AWG Smooth Weave Aluminum Conductor	4.79	1.43
26 05 26 00-0078 Copper Flexible Braid Connector Jumper Strap (26 05 26 00-0001)		
Note: Manufactured from flat extra flexible tinned braid. Ferrules are tin plated pure electrolytic copper with 2 holes, on each end.		
26 05 26 00-0079 EA 100 Amperes, Copper Flexible Braid Jumper Strap, 12" Length.....	165.66	38.46
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.07	
26 05 26 00-0080 EA 225 Amperes, Copper Flexible Braid Jumper Strap, 12" Length.....	280.89	46.15
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.69	
26 05 26 00-0081 EA 225 Amperes, Copper Flexible Braid Jumper Strap, 18" Length.....	356.40	46.15
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.69	
26 05 26 00-0082 EA 225 Amperes, Copper Flexible Braid Jumper Strap, 24" Length.....	430.88	46.15
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.69	
26 05 26 00-0083 EA 400 Amperes, Copper Flexible Braid Jumper Strap, 12" Length.....	377.08	49.99
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	34.61	
26 05 26 00-0084 EA 400 Amperes, Copper Flexible Braid Jumper Strap, 18" Length.....	485.70	49.99
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	34.61	
26 05 26 00-0085 EA 400 Amperes, Copper Flexible Braid Jumper Strap, 24" Length.....	580.09	49.99
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	34.61	
26 05 26 00-0086 EA 600 Amperes, Copper Flexible Braid Jumper Strap, 12" Length.....	487.97	63.45
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	38.07	
26 05 26 00-0087 EA 800 Amperes, Copper Flexible Braid Jumper Strap, 12" Length.....	586.96	76.91
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	46.15	
26 05 26 00-0088 Bonding Jumper For Metallic Conduit (26 05 26 00-0001)		
26 05 26 00-0089 EA 1/2" To 1" Conductor, Bonding Jumper, Metallic Conduit	227.96	84.60
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	48.07	
26 05 26 00-0090 EA 1-1/4" To 2" Conductor, Bonding Jumper, Metallic Conduit	280.82	84.60
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	59.16	
26 05 26 00-0091 EA 2-1/2" To 4" Conductor, Bonding Jumper, Metallic Conduit	404.80	130.75
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	69.92	
26 05 26 00-0092 EA 5" To 6" Conductor, Bonding Jumper, Metallic Conduit	591.30	130.75
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	85.46	
26 05 26 00-0093 Ground Rods (26 05 26)		
26 05 26 00-0094 Copper-Clad Ground Rods (26 05 26 00-0093)		
26 05 26 00-0095 EA 1/2" Diameter x 8' Long Copper-Clad Ground Rods	125.71	115.36
26 05 26 00-0096 EA 5/8" Diameter x 8' Long Copper-Clad Ground Rods	130.31	115.36
26 05 26 00-0097 EA 3/4" Diameter x 8' Long Copper-Clad Ground Rods	148.87	115.36
26 05 26 00-0098 EA 1/2" Diameter x 10' Long Copper-Clad Ground Rods	147.55	115.36
26 05 26 00-0099 EA 5/8" Diameter x 10' Long Copper-Clad Ground Rods	153.29	115.36
26 05 26 00-0100 EA 3/4" Diameter x 10' Long Copper-Clad Ground Rods	176.49	115.36
26 05 26 00-0101 Copper Grounding Shaft (26 05 26 00-0093)		
26 05 26 00-0102 EA 2-1/8" Diameter x 10' Long Copper Grounding Shaft.....	383.80	115.36
26 05 26 00-0103 EA 2-1/8" Diameter "L" Shaped; 3' Riser x 10' Horizontal Copper Grounding Shaft.....	474.33	115.36
26 05 26 00-0104 EA 2-1/8" Diameter "L" Shaped; 3' Riser x 20' Horizontal Copper Grounding Shaft.....	719.70	115.36
26 05 26 00-0105 Ground Access Wells (26 05 26 00-0093)		
26 05 26 00-0106 Precast Ground Access Wells (26 05 26 00-0105)		
26 05 26 00-0107 EA 8" Diameter x 24" Deep Precast Ground Access Well.....	282.72	
Note: With cast iron grate.		
26 05 26 00-0108 EA 10" Diameter x 24" Deep Precast Ground Access Well.....	292.91	
Note: With cast iron grate.		
26 05 26 00-0109 EA 12" Diameter x 24" Deep Precast Ground Access Well.....	857.48	
Note: With cast iron grate.		
26 05 26 00-0110 EA 18" Diameter x 24" Deep Precast Ground Access Well.....	867.66	
Note: With cast iron grate.		
26 05 26 00-0111 Polyvinyl Chloride (PVC) Ground Access Well (26 05 26 00-0105)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 26 00-0112 EA 10" Diameter x 24" Deep Polyvinyl Chloride (PVC) Belled Hub Ground Access Well Note: Schedule 40 with cast iron grated cover.	559.52	
26 05 26 00-0113 EA 12" Diameter x 24" Deep Polyvinyl Chloride (PVC) Belled Hub Ground Access Well Note: Schedule 40 with cast iron grated cover.	681.83	
26 05 26 00-0114 EA 18" Diameter x 24" Deep Polyvinyl Chloride (PVC) Belled Hub Ground Access Well Note: Schedule 40 with cast iron grated cover.	1,502.18	
26 05 26 00-0115 EA 10" Diameter x 24" Deep Polyvinyl Chloride (PVC) Belled Hub Ground Access Well Note: Schedule 40 with flat steel cover.	423.79	
26 05 26 00-0116 EA 12" Diameter x 24" Deep Polyvinyl Chloride (PVC) Belled Hub Ground Access Well Note: Schedule 40 with flat steel cover.	513.03	
26 05 26 00-0117 EA 18" Diameter x 24" Deep Polyvinyl Chloride (PVC) Belled Hub Ground Access Well Note: Schedule 40 with flat steel cover.	1,343.64	
26 05 26 00-0118 EA 8" Diameter x 24" Deep Polyvinyl Chloride (PVC) Ground Access Well Note: Schedule 40 with flat steel cover.	243.04	
26 05 26 00-0119 EA 10" Diameter x 24" Deep Polyvinyl Chloride (PVC) Ground Access Well Note: Schedule 40 with flat steel cover.	334.83	
26 05 26 00-0120 EA 12" Diameter x 24" Deep Polyvinyl Chloride (PVC) Ground Access Well Note: Schedule 40 with flat steel cover.	398.97	
26 05 26 00-0121 EA 8" Diameter x 24" Deep Schedule 40 Polyvinyl Chloride (PVC) Ground Access Well, Plastic Cover	197.42	
26 05 26 00-0122 EA 10" Diameter x 24" Deep Schedule 40 Polyvinyl Chloride (PVC) Ground Access Well, Plastic Cover	308.59	
26 05 26 00-0123 EA 8" Diameter x 42" Deep Polyvinyl Chloride (PVC) Slotted Ground Access Well Note: Schedule 40 with flat steel cover.	462.49	
26 05 26 00-0124 EA 10" Diameter x 42" Deep Polyvinyl Chloride (PVC) Slotted Ground Access Well Note: Schedule 40 with flat steel cover.	638.68	
26 05 26 00-0125 EA 8" Diameter x 42" Deep Polyvinyl Chloride (PVC) Slotted Ground Access Well Note: Schedule 40 with plastic cover.	443.10	
26 05 26 00-0126 EA 10" Diameter x 42" Deep Polyvinyl Chloride (PVC) Slotted Ground Access Well Note: Schedule 40 with plastic cover.	476.71	
26 05 26 00-0127 EA 10" Diameter x 36" Deep Polyvinyl Chloride (PVC) Schedule 80 Ground Access Well Note: With cast iron cover, heavy duty.	856.08	
26 05 26 00-0128 EA 10" Diameter x 42" Deep Polyvinyl Chloride (PVC) Schedule 80 Ground Access Well Note: With cast iron cover, heavy duty.	1,081.22	
26 05 26 00-0129 EA 12" Diameter x 12" Deep Polyvinyl Chloride (PVC) Schedule 80 Ground Access Well Note: With cast iron cover, heavy duty.	475.12	
26 05 26 00-0130 EA 12" Diameter x 24" Deep Polyvinyl Chloride (PVC) Schedule 80 Ground Access Well Note: With cast iron cover, heavy duty.	648.76	
26 05 26 00-0131 EA 12" Diameter x 30" Deep Polyvinyl Chloride (PVC) Schedule 80 Ground Access Well Note: With cast iron cover, heavy duty.	641.03	
26 05 26 00-0132 Polymer Concrete Ground Access Well (26 05 26 00-0105)		
26 05 26 00-0133 EA 12" x 12" x 12" Polymer Concrete Ground Access Well	540.40	
26 05 26 00-0134 EA 12" x 12" x 12" Heavy Duty Polymer Concrete Ground Access Well	593.10	
26 05 26 00-0135 EA 12" x 12" x 18" Polymer Concrete Ground Access Well	595.65	
26 05 26 00-0136 EA 12" x 12" x 18" Heavy Duty Polymer Concrete Ground Access Well	653.64	
26 05 26 00-0137 EA 12" x 12" x 24" Polymer Concrete Ground Access Well	653.02	
26 05 26 00-0138 EA 12" x 12" x 24" Heavy Duty Polymer Concrete Ground Access Well	716.80	
26 05 26 00-0139 EA 13" x 24" x 18" Polymer Concrete Ground Access Well	872.24	
26 05 26 00-0140 EA 13" x 24" x 18" Heavy Duty Polymer Concrete Ground Access Well	959.26	
26 05 26 00-0141 High Density Polyethylene (HDPE) Ground Access Well (26 05 26 00-0105)		
26 05 26 00-0142 EA 9" Diameter x 10" Deep High Density Polyethylene (HDPE) Ground Access Well Note: With cover.	195.50	
26 05 26 00-0143 EA 14" Diameter x 18" Deep High Density Polyethylene (HDPE) Ground Access Well Note: With cover.	272.87	
26 05 26 00-0144 Clay Tile Ground Access Wells (26 05 26 00-0105)		
26 05 26 00-0145 EA 8" Diameter x 24" Deep Clay Tile Ground Access Well With Concrete Cover	309.22	
26 05 26 00-0146 EA 8" Diameter x 24" Deep Clay Tile Ground Access Well With Cast Iron Grated Cover	325.38	
26 05 26 00-0147 EA Concrete Cover For 8" Diameter x 24" Deep Clay Tile Ground Access Well	99.28	
26 05 26 00-0148 Ground Rod Clamps And Fittings (26 05 26)		
26 05 26 00-0149 Bronze Ground Rod Clamp (26 05 26 00-0148)		
26 05 26 00-0150 EA 1/2" Bronze Ground Rod Clamp	29.58	17.38
26 05 26 00-0151 EA 5/8" Bronze Ground Rod Clamp	30.74	17.38
26 05 26 00-0152 EA 3/4" Bronze Ground Rod Clamp	32.38	17.38
26 05 26 00-0153 Bronze Pipe Clamps (26 05 26 00-0148)		
26 05 26 00-0154 EA 1/2" To 1" Bronze Pipe Ground Clamps	41.50	28.92
26 05 26 00-0155 EA 1-1/4" To 2" Bronze Ground Clamps For Pipe	52.89	34.61
26 05 26 00-0156 EA 2-1/2" To 3" Bronze Ground Clamps For Pipe	79.16	40.45
26 05 26 00-0157 EA 2-1/2" To 4" Bronze Ground Clamps For Pipe	96.72	51.99
26 05 26 00-0158 EA 4" To 6" Bronze Ground Clamps For Pipe	148.23	75.06
26 05 26 00-0159 Grounding Fittings (26 05 26 00-0148)		

26 Electrical**26 05 Common Work Results for Electrical****26 05 26 Grounding and Bonding for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 26 00-0160 Embedded Fittings (26 05 26 00-0159)		
26 05 26 00-0161 EA Ground Insert With Two 3/8 x 16 Holes #2 To 250 MCM Cable Range, Embedded	198.90	
26 05 26 00-0162 EA Ground Insert With Four 3/8 x 16 Holes #2 To 250 MCM Cable Range, Embedded	209.40	
26 05 26 00-0163 EA Ground Insert With Four 3/8 x 16 Holes 250 To 500 MCM Cable Range, Embedded	228.03	
26 05 26 00-0164 EA #8 To 1 AWG, Copper To Aluminum, Grounding Wire Splice.....	201.41	
26 05 26 00-0165 EA 1/0 To 3/0 AWG, Copper To Aluminum, Grounding Wire Splice.....	241.38	
26 05 26 00-0166 EA 4/0 To 300 MCM, Copper To Aluminum, Grounding Wire Splice.....	282.88	
26 05 26 00-0167 EA 350 To 500 MCM, Copper To Aluminum, Grounding Wire Splice.....	318.20	
26 05 26 00-0168 Ground Rod Receptacle (26 05 26 00-0159)		
26 05 26 00-0169 EA 1/2" Ground Rod Receptacle	427.08	159.98
26 05 26 00-0170 EA 5/8" Ground Rod Receptacle	445.27	164.48
26 05 26 00-0171 EA 3/4" Ground Rod Receptacle	463.93	168.95
26 05 26 00-0172 Ground Kits For Circuit Breaker Panels (26 05 26 00-0159)		
26 05 26 00-0173 EA 14-8 AWG Copper Ground Kit	96.70	38.46
26 05 26 00-0174 EA 12-8 AWG Aluminum Ground Kit	102.11	38.46
26 05 26 00-0175 EA 14-4 AWG Copper Ground Kit	105.52	38.46
26 05 26 00-0176 EA 12-4 AWG Aluminum Ground Kit	119.74	38.46
26 05 26 00-0177 Insulated Grounding Bars (26 05 26 00-0148)		
26 05 26 00-0178 EA 1/2" x 4" x 10" Insulated Ground Bar	386.08	38.61
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	69.22	
26 05 26 00-0179 EA Insulated Ground Bar SK 9560 1/2" x 4" x 20"	403.14	38.61
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	69.22	
26 05 26 00-0180 Ground Conductor Bonding (26 05 26)		
26 05 26 00-0181 Ground Conductor Bonding (26 05 26 00-0180)		
26 05 26 00-0182 Splice, Lug, Ground Rod, Rebar Or Structural Steel Cadweld (26 05 26 00-0181)		
26 05 26 00-0183 EA Up To #6 AWG Cadweld Connection For Splice, Lug, Ground Rod, Rebar Or Structural Steel	173.55	
Note: Includes molds, materials and all necessary tools to make connections.		
26 05 26 00-0184 EA #4 To #1 AWG Cadweld Connection For Splice, Lug, Ground Rod, Rebar Or Structural Steel.....	188.94	
Note: Includes molds, materials and all necessary tools to make connections.		
26 05 26 00-0185 EA 1/0 To 4/0 AWG Cadweld Connection For Splice, Lug, Ground Rod, Rebar Or Structural Steel.....	204.32	
Note: Includes molds, materials and all necessary tools to make connections.		
26 05 26 00-0186 EA 250 To 1,000 MCM AWG Cadweld Connection For Splice, Lug, Ground Rod, Rebar Or Structural Steel	296.60	
Note: Includes molds, materials and all necessary tools to make connections.		
26 05 26 00-0187 Tee, Wye Or Cross Cadweld (26 05 26 00-0181)		
26 05 26 00-0188 EA Up To #6 AWG Cadweld Connection For Tee, Wye Or Cross.....	196.63	
Note: Includes molds, materials and all necessary tools to make connections.		
26 05 26 00-0189 EA #4 To #1 AWG Cadweld Connection For Tee, Wye Or Cross	227.38	
Note: Includes molds, materials and all necessary tools to make connections.		
26 05 26 00-0190 EA 1/0 To 4/0 AWG Cadweld Connection For Tee, Wye Or Cross	281.23	
Note: Includes molds, materials and all necessary tools to make connections.		
26 05 26 00-0191 EA 250 To 1,000 MCM AWG Cadweld Connection For Tee, Wye Or Cross.....	342.75	
Note: Includes molds, materials and all necessary tools to make connections.		
26 05 26 00-0192 Grounding Equipment (26 05 26)		
26 05 26 00-0193 Special Grounding Equipment (26 05 26 00-0192)		
26 05 26 00-0194 Ground Reels And Ground Bus (26 05 26 00-0193)		
26 05 26 00-0195 EA Ground Reel With 50' Of Galvanized Steel Cable.....	839.57	
26 05 26 00-0196 Copper Bars (26 05 26 00-0193)		
26 05 26 00-0197 LF 1/4" x 2" Copper Bar	49.58	
26 05 26 00-0198 Phenolic Insulators (26 05 26 00-0193)		
26 05 26 00-0199 EA 2" x 2" x 1" Long Phenolic Insulators	38.67	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.23	
26 05 26 00-0200 Grounding Studs (26 05 26 00-0193)		
26 05 26 00-0201 EA Ball Grounding Stud.....	56.27	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.78	
26 05 26 00-0202 Equipment Ground Bar Kits (26 05 26 00-0193)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 26 00-0203 EA Switch Rating 30 Ground Bar Kit.....	42.63	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.23	
26 05 26 00-0204 EA Switch Rating 60 Ground Bar Kit.....	53.38	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.15	
26 05 26 00-0205 EA Switch Rating 100 Ground Bar Kit.....	62.02	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.54	
26 05 26 00-0206 EA Switch Rating 200 Ground Bar Kit.....	103.49	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.85	
26 05 26 00-0207 Panelboard Ground Bar Kits (26 05 26 00-0193)		
26 05 26 00-0208 EA Panelboard Ground Bar Kit.....	144.38	11.54
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.54	
26 05 26 00-0209 Circuit Breaker Ground Bar Kits (26 05 26 00-0193)		
26 05 26 00-0210 EA 3 Circuit, Ground Bar Kit.....	34.94	6.92
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.92	
26 05 26 00-0211 EA 4 Circuit, Ground Bar Kit.....	34.39	6.92
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.92	
26 05 26 00-0212 EA 7 Circuit, Ground Bar Kit.....	35.31	6.92
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.92	
26 05 26 00-0213 EA 12 Circuit, Ground Bar Kit.....	40.03	7.84
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.85	
26 05 26 00-0214 EA 20 Circuit, Ground Bar Kit.....	45.48	8.77
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.77	
26 05 26 00-0215 EA 24 Circuit, Ground Bar Kit.....	50.21	9.69
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.69	
26 05 26 00-0216 EA 30 Circuit, Ground Bar Kit.....	56.27	11.08
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.07	
26 05 26 00-0217 EA 54 Circuit, Ground Bar Kit.....	65.17	12.92
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.92	
26 05 26 00-0218 EA 24 Circuit, Ground Bar Kit With #1 To 4/0 Aluminum/Copper Lug.....	68.65	9.69
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.69	
26 05 26 00-0219 EA 30 Circuit, Ground Bar Kit With #1 To 4/0 Aluminum/Copper Lug.....	76.17	11.08
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.07	
26 05 26 00-0220 EA 54 Circuit, Ground Bar Kit With #1 To 4/0 Aluminum/Copper Lug.....	85.26	12.92
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.92	

26 20 Low-Voltage Electrical Distribution (26)

26 24 Switchboards and Panelboards (26 20)

26 24 13 Switchboards (26 24)

Note: Installation of free-standing building distribution switchboards. Switchboard sections to be mounted on 4" concrete pad. Includes material, handling, unloading at job site, assembly and installation, wiring connections, testing and cleanup. Exclude concrete pad and foundation.

26 24 13 00-0001	Fusible Switch Type 240 Volt, 3 Phase, 3 Wire (26 24 13)		
26 24 13 00-0002	Incoming Service Section Main Device Only (26 24 13 00-0001)		
	Note: Copper bus, non-metering type, with fuses.		
26 24 13 00-0003	EA 400 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch.....	4,713.20	1,345.48
26 24 13 00-0004	EA 600 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch.....	5,184.61	1,423.15
26 24 13 00-0005	EA 800 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch.....	8,027.81	1,614.36
26 24 13 00-0006	EA 1,200 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch.....	8,643.44	1,730.65
26 24 13 00-0007	EA 1,600 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch.....	13,398.76	1,845.24
26 24 13 00-0008	EA 2,000 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch.....	14,890.58	1,961.99
26 24 13 00-0009	EA 400 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	5,563.15	1,345.48
26 24 13 00-0010	EA 600 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	6,975.88	1,423.15
26 24 13 00-0011	EA 800 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	9,536.33	1,615.74
26 24 13 00-0012	EA 1,200 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	12,803.53	1,730.65
26 24 13 00-0013	EA 1,600 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	13,398.76	1,847.09
26 24 13 00-0014	EA 2,000 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	14,890.58	1,961.99
26 24 13 00-0015	EA 2,500 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	17,738.00	2,051.21
26 24 13 00-0016	EA 3,000 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	20,053.34	2,197.49
26 24 13 00-0017	EA 4,000 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	23,552.25	2,368.85
26 24 13 00-0018	EA 400 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	3,341.93	1,192.12
26 24 13 00-0019	EA 600 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	3,664.37	1,269.18
26 24 13 00-0020	EA 800 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	4,201.13	1,461.00
26 24 13 00-0021	EA 1,000 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	4,507.09	1,522.38
26 24 13 00-0022	EA 1,200 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	4,774.39	1,577.28
26 24 13 00-0023	EA 1,600 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	5,211.09	1,691.11
26 24 13 00-0024	EA 2,000 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	5,629.47	1,807.09

26 24 13 00-0025 Branch Breaker Units (26 24 13 00-0001)

Note: Includes branch breaker(s) and portion of distribution section occupied by that breaker. 240 V, 3 pole. Use upper range to determine breaker unless designing for future expansion.

26 24 13 00-0026	EA 15 To 60 Amperes, 240 Volt, MC Branch Breaker.....	369.67	46.91
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28.15	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 13 00-0027 EA 70 To 100 Amperes, 240 Volt, MC Branch Breaker.....	544.20	73.84
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	44.30	
26 24 13 00-0028 EA 125 To 225 Amperes, 240 Volt, MC Branch Breaker.....	1,429.45	134.59
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	80.75	
26 24 13 00-0029 EA 100 To 400 Amperes, 240 Volt, MC Branch Breaker.....	2,505.75	175.36
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	105.21	
26 24 13 00-0030 EA 300 To 600 Amperes, 240 Volt, MC Branch Breaker.....	4,523.10	430.70
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	258.38	
26 24 13 00-0031 EA 400 To 800 Amperes, 240 Volt, MC Branch Breaker.....	7,110.87	430.70
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	258.38	
26 24 13 00-0032 EA 600 To 1,200 Amperes, 240 Volt, MC Branch Breaker.....	11,563.84	767.57
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	460.55	
26 24 13 00-0033 Fusible Switch Type 480 Volt, 3 Phase, 3 Wire (26 24 13)		
26 24 13 00-0034 Incoming Service Section Main Device Only (26 24 13 00-0033)		
Note: Copper bus, non-metering type, with fuses.		
26 24 13 00-0035 EA 400 Amperes, 480 Volt, 3 Phase, 3 Wire, Distribution Switchboard With Main Switch.....	6,641.39	1,745.88
26 24 13 00-0036 EA 600 Amperes, 480 Volt, 3 Phase, 3 Wire, Distribution Switchboard With Main Switch.....	7,372.75	1,745.88
26 24 13 00-0037 EA 800 Amperes, 480 Volt, 3 Phase, 3 Wire, Distribution Switchboard With Main Switch.....	10,558.59	2,268.87
26 24 13 00-0038 EA 1,200 Amperes, 480 Volt, 3 Phase, 3 Wire, Distribution Switchboard With Main Switch.....	11,899.24	2,268.87
26 24 13 00-0039 Fusible Switch Type 120/240 Volt, 1 Phase, 3 Wire (26 24 13)		
26 24 13 00-0040 Incoming Service Section Main Device Only (26 24 13 00-0039)		
Note: Copper bus, non-metering type, with fuses.		
26 24 13 00-0041 EA 200/400 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Switch.....	4,232.25	1,192.12
26 24 13 00-0042 EA 600 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Switch.....	4,683.01	1,269.18
26 24 13 00-0043 EA 800 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Switch.....	6,930.51	1,461.00
26 24 13 00-0044 EA 1,200 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Switch.....	7,524.22	1,576.06
26 24 13 00-0045 EA 200/400 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With MC Main Breaker.....	5,039.10	1,192.12
26 24 13 00-0046 EA 600 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With MC Main Breaker.....	6,244.98	1,269.18
26 24 13 00-0047 EA 800 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With MC Main Breaker.....	8,606.27	1,461.00
26 24 13 00-0048 EA 1,200 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With MC Main Breaker.....	12,094.63	1,576.06
26 24 13 00-0049 EA 2,000 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With MC Main Breaker.....	14,157.79	1,768.95
26 24 13 00-0050 EA 200/400 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug.....	3,066.01	1,038.14
26 24 13 00-0051 EA 600 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug.....	3,411.55	1,115.36
26 24 13 00-0052 EA 800 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug.....	4,003.80	1,307.18
26 24 13 00-0053 EA 1,000 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug.....	4,290.38	1,368.55
26 24 13 00-0054 EA 1,200 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug.....	4,565.30	1,423.15
26 24 13 00-0055 EA 1,600 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug.....	4,942.92	1,522.38
26 24 13 00-0056 EA 2,000 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug.....	5,309.74	1,614.36
26 24 13 00-0057 EA 2,500 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug.....	6,588.45	1,999.68
26 24 13 00-0058 EA 3,000 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug.....	7,351.92	2,191.95
26 24 13 00-0059 EA 4,000 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug.....	8,542.10	2,365.01
26 24 13 00-0060 Branch Breaker Units (26 24 13 00-0039)		
Note: Includes branch breaker(s) and portion of distribution section occupied by that breaker. 240 V, 2 pole. Use upper range to determine breaker unless designing for future expansion.		
26 24 13 00-0061 EA 15 To 60 Amperes, 120 / 240 Volt, MC Branch Breaker.....	206.68	40.76
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.46	
26 24 13 00-0062 EA 70 To 100 Amperes, 120 / 240 Volt, MC Branch Breaker.....	329.84	67.68
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	40.61	
26 24 13 00-0063 EA 125 To 225 Amperes, 120 / 240 Volt, MC Branch Breaker.....	947.77	94.60
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	56.76	
26 24 13 00-0064 EA 100 To 400 Amperes, 120 / 240 Volt, MC Branch Breaker.....	2,648.05	121.52
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	72.91	
26 24 13 00-0065 EA 300 To 600 Amperes, 120/240 Volt, MC Branch Breaker.....	4,224.69	296.11
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	177.65	
26 24 13 00-0066 EA 400 To 800 Amperes, 120/240 Volt, MC Branch Breaker.....	5,941.83	296.11
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	177.65	
26 24 13 00-0067 EA 600 To 1,200 Amperes, 120/240 Volt, MC Branch Breaker.....	9,837.07	565.30
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	339.21	
26 24 13 00-0068 Fusible Switch Type 120/208 Volt, 3 Phase, 4 Wire (26 24 13)		
26 24 13 00-0069 Incoming Service Section Main Device Only (26 24 13 00-0068)		
Note: Copper bus, non-metering type, with fuses.		
26 24 13 00-0070 EA 400 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch.....	4,715.08	1,345.48
26 24 13 00-0071 EA 600 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch.....	5,182.50	1,423.15
26 24 13 00-0072 EA 800 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch.....	8,025.09	1,614.36
26 24 13 00-0073 EA 1,200 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch.....	8,640.32	1,730.65
26 24 13 00-0074 EA 1,600 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch.....	13,391.67	1,845.24
26 24 13 00-0075 EA 2,000 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch.....	14,890.58	1,961.99
26 24 13 00-0076 EA 400 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	5,565.03	1,345.48
26 24 13 00-0077 EA 600 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	6,973.77	1,423.15
26 24 13 00-0078 EA 800 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	9,536.33	1,615.74
26 24 13 00-0079 EA 1,200 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	12,800.41	1,730.65
26 24 13 00-0080 EA 1,600 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	13,395.21	1,847.09



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 13 00-0081 EA 2,000 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker	14,890.58	1,961.99
26 24 13 00-0082 EA 400 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	3,475.40	1,192.12
26 24 13 00-0083 EA 600 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	3,853.75	1,269.18
26 24 13 00-0084 EA 800 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	4,484.11	1,461.00
26 24 13 00-0085 EA 1,000 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	4,799.82	1,522.38
26 24 13 00-0086 EA 1,200 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	5,102.82	1,577.28
26 24 13 00-0087 EA 1,600 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	5,528.60	1,691.11
26 24 13 00-0088 EA 2,000 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	5,960.63	1,807.09
26 24 13 00-0089 EA 2,500 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	7,030.09	2,053.52
26 24 13 00-0090 EA 3,000 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	7,740.47	2,197.34
26 24 13 00-0091 EA 4,000 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	9,022.67	2,361.16
26 24 13 00-0092 Branch Breaker Units <small>(26 24 13 00-0068)</small>		
Note: Includes branch breaker(s) and portion of distribution section occupied by that breaker. 120/208 V, 3 pole. Use upper range to determine breaker unless designing for future expansion.		
26 24 13 00-0093 EA 15 To 60 Amperes, 120/208 Volt, MC Branch Breaker.....	369.67	46.91
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28.15	
26 24 13 00-0094 EA 70 To 100 Amperes, 120/208 Volt, MC Branch Breaker.....	544.20	73.84
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	44.30	
26 24 13 00-0095 EA 125 To 225 Amperes, 120/208 Volt, MC Branch Breaker.....	1,429.45	134.59
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	80.75	
26 24 13 00-0096 EA 100 To 400 Amperes, 120/208 Volt, MC Branch Breaker.....	2,505.75	175.36
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	105.21	
26 24 13 00-0097 EA 300 To 600 Amperes, 120/208 Volt, MC Branch Breaker.....	4,523.10	430.70
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	258.38	
26 24 13 00-0098 EA 400 To 800 Amperes, 120/208 Volt, MC Branch Breaker.....	7,110.87	430.70
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	258.38	
26 24 13 00-0099 EA 600 To 1,200 Amperes, 120/208 Volt, MC Branch Breaker.....	11,563.84	767.57
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	460.55	
26 24 13 00-0100 Fusible Switch Type 277/480 Volt, 3 Phase, 4 Wire <small>(26 24 13)</small>		
26 24 13 00-0101 Incoming Service Section Main Device Only <small>(26 24 13 00-0100)</small>		
Note: Copper bus, non-metering type, with fuses.		
26 24 13 00-0102 EA 400 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch.....	6,162.80	1,845.24
26 24 13 00-0103 EA 600 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch.....	6,732.46	1,961.99
26 24 13 00-0104 EA 800 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch.....	9,274.41	2,189.96
26 24 13 00-0105 EA 1,200 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch.....	10,113.48	2,344.85
26 24 13 00-0106 EA 400 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker	7,605.82	1,845.24
26 24 13 00-0107 EA 600 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker	9,966.74	1,961.99
26 24 13 00-0108 EA 800 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker	11,277.56	2,192.41
26 24 13 00-0109 EA 1,200 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker	14,028.76	2,344.85
26 24 13 00-0110 EA 1,600 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker	14,701.83	2,500.37
26 24 13 00-0111 EA 2,000 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker	16,278.09	2,655.73
26 24 13 00-0112 EA 400 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	3,475.40	1,192.12
26 24 13 00-0113 EA 600 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	3,853.75	1,269.18
26 24 13 00-0114 EA 800 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	4,484.11	1,461.00
26 24 13 00-0115 EA 1,000 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	4,799.82	1,522.38
26 24 13 00-0116 EA 1,200 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	5,102.82	1,577.28
26 24 13 00-0117 EA 1,600 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	5,528.60	1,691.11
26 24 13 00-0118 EA 2,000 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	5,960.63	1,807.09
26 24 13 00-0119 Branch Breaker Units <small>(26 24 13 00-0100)</small>		
Note: Includes branch breaker(s) and portion of distribution section occupied by that breaker. 480 V, 3 pole. Use upper range to determine breaker unless designing for future expansion.		
26 24 13 00-0120 EA 15 To 60 Amperes, 480/277 Volt, MC Branch Breaker.....	740.34	46.91
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28.15	
26 24 13 00-0121 EA 70 To 100 Amperes, 480/277 Volt, MC Branch Breaker.....	863.14	73.84
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	44.30	
26 24 13 00-0122 EA 125 To 225 Amperes, 480/277 Volt, MC Branch Breaker.....	1,565.65	134.59
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	80.75	
26 24 13 00-0123 EA 100 To 400 Amperes, 480/277 Volt, MC Branch Breaker.....	2,505.75	175.36
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	105.21	
26 24 13 00-0124 EA 300 To 600 Amperes, 480/277 Volt, MC Branch Breaker.....	6,009.22	430.70
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	258.38	
26 24 13 00-0125 EA 400 To 800 Amperes, 480/277 Volt, MC Branch Breaker.....	6,141.97	430.70
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	258.38	
26 24 13 00-0126 EA 600 To 1,200 Amperes, 480/277 Volt, MC Branch Breaker.....	9,893.26	767.57
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	460.55	
26 24 13 00-0127 Fusible Branch Circuit Switch <small>(26 24 13)</small>		
Note: Includes switch fuses, and portion of distribution section occupied by that branch device.		
26 24 13 00-0128 240 Volt, 2 Pole Twin Branch Switch Units <small>(26 24 13 00-0127)</small>		
26 24 13 00-0129 EA 30/30 Amperes, 240 Volt, 2 Pole Twin Branch Switch Unit	798.65	120.75
For Electrical Interlock Kit, Add	301.39	
26 24 13 00-0130 EA 30/60 Amperes, 240 Volt, 2 Pole Twin Branch Switch Unit	796.07	120.75
For Electrical Interlock Kit, Add	301.39	

26 Electrical
26 20 Low-Voltage Electrical Distribution
26 24 Switchboards and Panelboards



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 13 00-0131	EA	60/60 Amperes, 240 Volt, 2 Pole Twin Branch Switch Unit..... <i>For Electrical Interlock Kit, Add</i>	796.07 301.39	120.75
26 24 13 00-0132	EA	60/100 Amperes, 240 Volt, 2 Pole Twin Branch Switch Unit..... <i>For Electrical Interlock Kit, Add</i>	1,234.42 301.39	159.21
26 24 13 00-0133	EA	100/100 Amperes, 240 Volt, 2 Pole Twin Branch Switch Unit..... <i>For Electrical Interlock Kit, Add</i>	1,234.42 301.39	159.21
26 24 13 00-0134		240 Volt, 2 Pole Single Branch Switch Units (26 24 13 00-0127)		
26 24 13 00-0135	EA	100 Amperes, 240 Volt, 2 Pole Single Branch Switch Unit <i>For Electrical Interlock Kit, Add</i>	903.83 288.73	118.45
26 24 13 00-0136	EA	200 Amperes, 240 Volt, 2 Pole Single Branch Switch Unit <i>For Electrical Interlock Kit, Add</i>	1,291.00 288.73	118.45
26 24 13 00-0137	EA	400 Amperes, 240 Volt, 2 Pole Single Branch Switch Unit <i>For Electrical Interlock Kit, Add</i>	3,325.58	319.18
26 24 13 00-0138		240 Volt, 3 Pole Twin Branch Switch Units (26 24 13 00-0127)		
26 24 13 00-0139	EA	30/30 Amperes, 240 Volt, 3 Pole Twin Branch Switch Unit..... <i>For Electrical Interlock Kit, Add</i>	1,014.20 301.39	136.13
26 24 13 00-0140	EA	30/60 Amperes, 240 Volt, 3 Pole Twin Branch Switch Unit..... <i>For Electrical Interlock Kit, Add</i>	1,011.62 301.39	136.13
26 24 13 00-0141	EA	60/60 Amperes, 240 Volt, 3 Pole Twin Branch Switch Unit..... <i>For Electrical Interlock Kit, Add</i>	1,011.62 301.39	136.13
26 24 13 00-0142	EA	60/100 Amperes, 240 Volt, 3 Pole Twin Branch Switch Unit..... <i>For Electrical Interlock Kit, Add</i>	1,512.67 301.39	182.28
26 24 13 00-0143	EA	100/100 Amperes, 240 Volt, 3 Pole Twin Branch Switch Unit..... <i>For Electrical Interlock Kit, Add</i>	1,512.67 301.39	182.28
26 24 13 00-0144		240 Volt, 3 Pole Single Branch Switch Units (26 24 13 00-0127)		
26 24 13 00-0145	EA	100 Amperes, 240 Volt, 3 Pole Single Branch Switch Unit <i>For Electrical Interlock Kit, Add</i>	1,089.90 301.39	133.82
26 24 13 00-0146	EA	200 Amperes, 240 Volt, 3 Pole Single Branch Switch Unit <i>For Electrical Interlock Kit, Add</i>	1,721.05 288.73	133.82
26 24 13 00-0147	EA	400 Amperes, 240 Volt, 3 Pole Single Branch Switch Unit <i>For Electrical Interlock Kit, Add</i>	4,419.30 288.73	357.32
26 24 13 00-0148	EA	600 Amperes, 240 Volt, 3 Pole Single Branch Switch Unit <i>For Electrical Interlock Kit, Add</i>	6,284.96 288.73	457.77
26 24 13 00-0149	EA	800 Amperes, 240 Volt, 3 Pole Single Branch Switch Unit <i>For Electrical Interlock Kit, Add</i>	11,583.24 288.73	620.21
26 24 13 00-0150		600 Volt, 3 Pole Twin Branch Switch Units (26 24 13 00-0127)		
26 24 13 00-0151	EA	30/30 Amperes, 600 Volt, 3 Pole Twin Branch Switch Unit..... <i>For Electrical Interlock Kit, Add</i>	1,405.04 301.39	136.13
26 24 13 00-0152	EA	30/60 Amperes, 600 Volt, 3 Pole Twin Branch Switch Unit..... <i>For Electrical Interlock Kit, Add</i>	1,402.42 301.39	136.13
26 24 13 00-0153	EA	60/60 Amperes, 600 Volt, 3 Pole Twin Branch Switch Unit..... <i>For Electrical Interlock Kit, Add</i>	1,405.04 301.39	136.13
26 24 13 00-0154	EA	60/100 Amperes, 600 Volt, 3 Pole Twin Branch Switch Unit..... <i>For Electrical Interlock Kit, Add</i>	2,102.38 301.39	182.28
26 24 13 00-0155	EA	100/100 Amperes, 600 Volt, 3 Pole Twin Branch Switch Unit..... <i>For Electrical Interlock Kit, Add</i>	2,146.03 301.39	182.28
26 24 13 00-0156	EA	200/200 Amperes, 600 Volt, 3 Pole Twin Branch Switch Unit..... <i>For Electrical Interlock Kit, Add</i>	4,495.34 301.39	238.43
26 24 13 00-0157		600 Volt, 3 Pole, Single Branch Switch Units (26 24 13 00-0127)		
26 24 13 00-0158	EA	100 Amperes, 600 Volt, 3 Pole Single Branch Switch Unit <i>For Electrical Interlock Kit, Add</i>	1,510.84 301.39	133.82
26 24 13 00-0159	EA	200 Amperes, 600 Volt, 3 Pole Single Branch Switch Unit <i>For Electrical Interlock Kit, Add</i>	2,255.45 288.73	133.82
26 24 13 00-0160	EA	400 Amperes, 600 Volt, 3 Pole Single Branch Switch Unit <i>For Electrical Interlock Kit, Add</i>	5,503.30 288.73	357.32
26 24 13 00-0161	EA	600 Amperes, 600 Volt, 3 Pole Single Branch Switch Unit <i>For Electrical Interlock Kit, Add</i>	6,695.26 288.73	457.77
26 24 13 00-0162	EA	800 Amperes, 600 Volt, 3 Pole Single Branch Switch Unit <i>For Electrical Interlock Kit, Add</i>	11,583.24 288.73	620.21
26 24 13 00-0163		Service And Distribution Structures (26 24 13)		
26 24 13 00-0164		Distribution Section 600 Volt, 250 Volt DC (26 24 13 00-0163)		
26 24 13 00-0165		600 Amperes, 4 Wire, Main Bus (26 24 13 00-0164)		
26 24 13 00-0166	EA	14 Watt Distribution Section, 600 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	3,363.68	1,415.16
26 24 13 00-0167	EA	24 To 30 Watt Distribution Section, 600 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	3,961.17	1,415.16
26 24 13 00-0168	EA	34 To 38 Watt Distribution Section, 600 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	4,412.44	1,799.71
26 24 13 00-0169	EA	42 To 48 Watt Distribution Section, 600 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	4,909.37	1,799.71
26 24 13 00-0170		800 Amperes, 4 Wire, Main Bus (26 24 13 00-0164)		
26 24 13 00-0171	EA	14 Watt Distribution Section, 800 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	3,815.91	1,638.20
26 24 13 00-0172	EA	24 To 30 Watt Distribution Section, 800 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	4,393.75	1,638.20
26 24 13 00-0173	EA	34 To 38 Watt Distribution Section, 800 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	4,909.37	2,030.44
26 24 13 00-0174	EA	42 To 48 Watt Distribution Section, 800 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	5,355.79	2,030.44



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 13 00-0175 1,200 Amperes, 4 Wire, Main Bus <small>(26 24 13 00-0164)</small>		
26 24 13 00-0176 EA 14 Watt Distribution Section, 1,200 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	4,515.86	1,999.68
26 24 13 00-0177 EA 24 To 30 Watt Distribution Section, 1,200 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	5,110.48	1,999.68
26 24 13 00-0178 EA 34 To 38 Watt Distribution Section, 1,200 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	5,661.00	2,461.14
26 24 13 00-0179 EA 42 To 48 Watt Distribution Section, 1,200 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	6,315.00	2,461.14
26 24 13 00-0180 1,600 Amperes, 4 Wire, Main Bus <small>(26 24 13 00-0164)</small>		
26 24 13 00-0181 EA 14 Watt Distribution Section, 1,600 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	5,426.28	2,191.95
26 24 13 00-0182 EA 24 To 30 Watt Distribution Section, 1,600 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	6,155.37	2,191.95
26 24 13 00-0183 EA 34 To 38 Watt Distribution Section, 1,600 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	6,815.49	2,707.26
26 24 13 00-0184 EA 42 To 48 Watt Distribution Section, 1,600 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	7,385.21	2,707.26
26 24 13 00-0185 2,000 Amperes, 4 Wire, Main Bus <small>(26 24 13 00-0164)</small>		
26 24 13 00-0186 EA 14 Watt Distribution Section, 2,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	5,711.46	2,199.65
26 24 13 00-0187 EA 24 To 30 Watt Distribution Section, 2,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	6,507.52	2,476.53
26 24 13 00-0188 EA 34 To 38 Watt Distribution Section, 2,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	6,618.29	2,476.53
26 24 13 00-0189 EA 42 To 48 Watt Distribution Section, 2,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	6,920.14	2,614.96
26 24 13 00-0190 3,000 Amperes, 4 Wire, Main Bus <small>(26 24 13 00-0164)</small>		
26 24 13 00-0191 EA 24 To 30 Watt Distribution Section, 3,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	7,560.73	2,476.53
26 24 13 00-0192 EA 34 To 38 Watt Distribution Section, 3,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	7,669.85	2,476.53
26 24 13 00-0193 EA 42 To 48 Watt Distribution Section, 3,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	7,971.70	2,614.96
26 24 13 00-0194 4,000 Amperes, 4 Wire, Main Bus <small>(26 24 13 00-0164)</small>		
26 24 13 00-0195 EA 24 To 30 Watt Distribution Section, 4,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	7,757.93	2,614.96
26 24 13 00-0196 EA 34 To 38 Watt Distribution Section, 4,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	7,971.70	2,614.96
26 24 13 00-0197 EA 42 To 48 Watt Distribution Section, 4,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus.....	8,080.70	2,614.96
26 24 13 00-0198 Pull Boy, Horizontal Mounted Across Top Of Switch Board <small>(26 24 13 00-0164)</small>		
26 24 13 00-0199 EA 18 - 24" Wide, 30" High, Open Bottom, Pull Boy Horizontal Mounted, Top Of Switchboard.....	656.88	184.58
26 24 13 00-0200 EA Drilled Bottom For Pull Boy.....	741.92	184.58
26 24 13 00-0201 EA Cable Supports In Pull Box.....	250.80	46.15
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>25.64</i>	
26 24 13 00-0202 Underground Pull Sections <small>(26 24 13 00-0164)</small>		
<i>Note: Excludes no bus or terminal.</i>		
26 24 13 00-0203 EA 12 To 20" Wide, 15 - 20" Deep, Underground Pull Section Without Bus Or Terminal.....	652.64	215.35
26 24 13 00-0204 EA 24 To 28" Wide, 20" Deep, Underground Pull Section Without Bus Or Terminal.....	1,094.67	276.88
26 24 13 00-0205 EA 24 To 28" Wide, 30" Deep, Underground Pull Section Without Bus Or Terminal.....	1,094.67	276.88
26 24 13 00-0206 EA 14 To 20" Wide, 36" Deep, Underground Pull Section Without Bus Or Terminal.....	832.42	215.35
26 24 13 00-0207 EA 28 To 30" Wide, 36" Deep, Underground Pull Section Without Bus Or Terminal.....	1,168.93	315.33
26 24 13 00-0208 EA 14 To 20" Wide, 42 - 60" Deep, Underground Pull Section Without Bus Or Terminal.....	1,343.17	315.33
26 24 13 00-0209 EA 26 To 30" Wide, 42 - 60" Deep, Underground Pull Section Without Bus Or Terminal.....	1,419.54	407.63
26 24 13 00-0210 EA 38" Wide, 42 - 60" Deep, Underground Pull Section Without Bus Or Terminal.....	1,512.61	407.63
26 24 13 00-0211 Switchboard Sections <small>(26 24 13 00-0163)</small>		
26 24 13 00-0212 EA 600 Amperes, 480 Volt, 4 Wire, Switchboard Incoming No Switch Circuit.....	5,095.27	1,281.80
26 24 13 00-0213 EA 800 Amperes, 480 Volt, 4 Wire, Switchboard Incoming No Switch Circuit.....	5,575.03	1,393.31
26 24 13 00-0214 EA 1,200 Amperes, 480 Volt, 4 Wire, Switchboard Incoming No Switch Circuit.....	7,009.50	1,780.33
26 24 13 00-0215 EA 1,600 Amperes, 480 Volt, 4 Wire, Switchboard Incoming No Switch Circuit.....	7,663.42	1,942.15
26 24 13 00-0216 EA 2,000 Amperes, 480 Volt, 4 Wire, Switchboard Incoming No Switch Circuit.....	8,170.84	2,067.52
26 24 13 00-0217 EA 400 Amperes, 480 Volt, Switchboard Incoming For Switch Circuit Section.....	5,844.43	1,124.43
26 24 13 00-0218 EA 200 Amperes, Distribution Section Subfeeder Lug-Rated.....	3,559.96	1,068.13
26 24 13 00-0219 EA 400 Amperes, Distribution Section Subfeeder Lug-Rated.....	3,930.93	1,158.28
26 24 13 00-0220 EA 120/208 Or 277/480 Volt, 4 Wire, Distribution Section Aluminum Bus.....	8,377.91	1,281.80
26 24 13 00-0221 EA 800 Amperes, Switchboard Distribution Section Aluminum Bus Less Breaker.....	9,019.50	1,285.18
26 24 13 00-0222 EA 1,000 Amperes, Switchboard Distribution Section Aluminum Bus Less Breaker.....	9,913.37	1,434.84
26 24 13 00-0223 EA 15 To 60 Amperes, 240 Volt, 1 Phase, Feed Section Circuit Breaker FA Frame.....	209.40	76.91
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>46.97</i>	
26 24 13 00-0224 EA 70 To 100 Amperes, 240 Volt, 3 Phase, Feed Section Circuit Breaker FA Frame.....	253.94	78.30
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>55.49</i>	
26 24 13 00-0225 EA 70 To 225 Amperes, 480 Volt, 3 Phase, Feed Section Circuit Breaker KA Frame.....	1,051.57	92.45
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>119.55</i>	
26 24 13 00-0226 EA 125 To 400 Amperes, 480 Volt, 3 Phase, Feed Section Circuit Breaker LA Frame.....	1,714.30	199.20
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>166.47</i>	
26 24 13 00-0227 EA 100 Amperes, 240 Volt HIC, 3 Phase, Switchboard Feed Section Branch Circuit Breaker.....	709.36	277.49
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>96.14</i>	
26 24 13 00-0228 EA 225 Amperes, 240 Volt HIC, 3 Phase, Switchboard Feed Section Branch Circuit Breaker.....	1,866.10	160.28
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>119.55</i>	



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

26 24 13 00-0229	Switchboard, Structure Per Section Copper, 480 Volt <small>(26 24 13 00-0163)</small>		
26 24 13 00-0230	EA 225 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard	2,643.06	667.58
26 24 13 00-0231	EA 400 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard	3,734.22	902.77
26 24 13 00-0232	EA 600 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard	4,235.92	1,098.75
26 24 13 00-0233	EA 800 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard	5,424.71	1,538.21
26 24 13 00-0234	EA 1,200 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard	6,731.20	1,922.77
26 24 13 00-0235	EA 1,600 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard	7,312.44	1,922.77
26 24 13 00-0236	EA 2,000 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard	9,130.29	2,563.74
26 24 13 00-0237	EA 2,500 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard	10,244.80	2,563.74
26 24 13 00-0238	EA 3,000 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard	12,067.27	3,051.97
26 24 13 00-0239	EA 4,000 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard	14,118.07	3,051.97
26 24 13 00-0240	Main Devices <small>(26 24 13)</small>		
26 24 13 00-0241	Power Circuit Breakers <small>(26 24 13 00-0240)</small>		
26 24 13 00-0242	DSL Breaker With Current Limiters And Amptector <small>(26 24 13 00-0241)</small>		
	Note: 11 Static trip not applicable to ground-fault or plug in test feature. Manually operated.		
26 24 13 00-0243	EA 50 To 800 Amperes, DSL-206, Main Breaker With Current Limiter, Amptector Static Trip	8,881.33	1,615.13
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	967.03	
26 24 13 00-0244	EA 50 To 1,600 Amperes, DSL-416, Main Breaker With Current Limiter, Amptector Static Trip	16,070.86	2,691.88
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,613.51	
26 24 13 00-0245	EA 1,200 To 3,200 Amperes, DSL-632, Main Breaker With Current Limiter, Amptector Static Trip	35,348.81	4,522.35
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2,689.19	
26 24 13 00-0246	EA 4,000 Amperes, DSL-840, Main Breaker With Current Limiter, Amptector Static Trip	57,070.02	7,321.90
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4,471.56	
26 24 13 00-0247	EA Ground-Fault Trip All Power Breakers - Factory Installed	2,790.93	
26 24 13 00-0248	EA Key Interlock All Power Breakers - Factory Installed	360.44	
26 24 13 00-0249	EA Short Time Delay Selective Trip - Factory Installed	472.87	
26 24 13 00-0250	EA Shunt Trip Manually Open Breakers - Factory Installed	340.60	
26 24 13 00-0251	DSL Breaker Electrical Operated And Amptector <small>(26 24 13 00-0241)</small>		
	Note: 11 Static trip not applicable to ground-fault or plug in test feature. Manually operated.		
26 24 13 00-0252	EA 50 To 800 Amperes, DSL-206, Main Breaker, Electrical Operated With Amptector Static Trip	10,304.69	1,692.04
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,020.04	
26 24 13 00-0253	EA 50 To 1,600 Amperes, DSL-416, Main Breaker, Electrical Operated With Amptector Static Trip	18,966.73	2,845.69
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,699.06	
26 24 13 00-0254	EA 1,200 To 3,200 Amperes, DSL-632, Main Breaker, Electrical Operated With Amptector Static Trip	39,538.59	4,691.55
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2,827.60	
26 24 13 00-0255	EA 4,000 Amperes, DSL-840, Main Breaker, Electrical Operated With Amptector Static Trip	61,387.43	7,691.08
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4,728.12	
26 24 13 00-0256	DS Breakers With Amptector Static Trip, Manually Operated <small>(26 24 13 00-0241)</small>		
	Note: Includes integral ground fault and plug-in test provision. Excludes system, add price from section drawout mounted manually operated.		
26 24 13 00-0257	EA 50 To 800 Amperes, DS-206, Main Breaker With Groundfault, Amptector Static Trip	7,174.26	1,476.69
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	887.43	
26 24 13 00-0258	EA 50 To 1,600 Amperes, DS-416, Main Breaker With Groundfault, Amptector Static Trip	12,997.08	2,476.53
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,479.05	
26 24 13 00-0259	EA 2,000 Amperes, DS-420, Main Breaker With Groundfault, Amptector Static Trip	19,507.98	4,153.18
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2,465.09	
26 24 13 00-0260	EA 1,200 To 3,200 Amperes, DS-632, Main Breaker With Groundfault, Amptector Static Trip	33,534.17	6,691.23
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4,105.56	
26 24 13 00-0261	EA 4,000 Amperes, DS-840, Main Breaker With Groundfault, Amptector Static Trip	54,701.52	10,921.33
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6,826.40	
26 24 13 00-0262	DS Breakers With Amptector Static Trip, Electrically Operated <small>(26 24 13 00-0241)</small>		
	Note: Includes integral ground fault and plug-in test provision. Excludes system, add price from section drawout mounted electrical operated.		
26 24 13 00-0263	EA 50 To 800 Amperes, DS-206, Main Breaker, Electrical Operated With Groundfault, Amptector Static Trip	8,284.19	1,415.16
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	846.41	
26 24 13 00-0264	EA 50 To 1,600 Amperes, DS-416, Main Breaker, Electrical Operated With Groundfault, Amptector Static Trip	15,309.32	2,368.85
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,410.35	
26 24 13 00-0265	EA 2,000 Amperes, DS-420, Main Breaker, Electrical Operated With Groundfault, Amptector Static Trip	22,110.21	3,937.83
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2,354.41	
26 24 13 00-0266	EA 1,200 To 3,200 Amperes, DS-632, Main Breaker, Electrical Operated With Groundfault, Amptector Static Trip	36,525.17	6,414.36
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3,924.02	
26 24 13 00-0267	EA 4,000 Amperes, DS-840, Main Breaker, Electrical Operated With Groundfault, Amptector Static Trip	57,491.83	10,998.23
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6,554.89	
26 24 13 00-0268	Molded Case Circuit Breakers Conventional <small>(26 24 13 00-0241)</small>		
26 24 13 00-0269	EA 70 To 225 Amperes, 3 Pole, Conventional Molded Case Circuit Breaker	3,375.48	1,292.10
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	744.30	
26 24 13 00-0270	EA 125 To 400 Amperes, 3 Pole, Conventional Molded Case Circuit Breaker	4,687.66	1,292.10
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	809.59	
26 24 13 00-0271	EA 300 To 600 Amperes, 3 Pole, Conventional Molded Case Circuit Breaker	5,190.19	1,538.21
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	887.43	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 13 00-0272 EA 400 To 800 Amperes, 3 Pole, Conventional Molded Case Circuit Breaker.....	6,086.47	1,538.21
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	961.38	
26 24 13 00-0273 EA 600 To 1,200 Amperes, 3 Pole, Conventional Molded Case Circuit Breaker.....	8,700.26	1,845.86
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,053.57	
26 24 13 00-0274 EA 1,000 To 2,000 Amperes, 3 Pole, Conventional Molded Case Circuit Breaker.....	13,581.54	1,845.86
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,165.32	
26 24 13 00-0275 EA Shunt Trip, Factory Installed.....	357.13	
26 24 13 00-0276 EA Groundfault Trip Complete Interrupting Circuit, Factory Installed.....	82.67	
26 24 13 00-0277 Switchboard Branch Breaker 480 Volt (26 24 13 00-0240)		
26 24 13 00-0278 EA 60 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker.....	624.59	111.52
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	66.88	
26 24 13 00-0279 EA 100 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker.....	745.45	147.98
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	88.74	
26 24 13 00-0280 EA 225 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker.....	2,046.76	222.73
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	133.68	
26 24 13 00-0281 EA 400 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker.....	2,697.49	279.50
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	167.69	
26 24 13 00-0282 EA 600 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker.....	3,284.34	374.86
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	224.89	
26 24 13 00-0283 EA 800 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker.....	3,981.39	480.69
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	288.42	
26 24 13 00-0284 EA 1,000 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker.....	6,382.24	732.50
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	439.49	
26 24 13 00-0285 EA 1,200 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker.....	6,382.24	732.50
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	439.49	
26 24 13 00-0286 EA 1,600 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker.....	8,950.49	1,025.53
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	615.29	
26 24 13 00-0287 EA 2,000 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker.....	11,305.70	1,538.21
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	922.93	
26 24 13 00-0288 Switchboard 277/480 Volt Main Breaker (26 24 13 00-0240)		
26 24 13 00-0289 EA 400 Amperes, 277/480 Volt, Main Breaker, Switchboard.....	7,161.41	667.58
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	400.58	
26 24 13 00-0290 EA 600 Amperes, 277/480 Volt, Main Breaker, Switchboard.....	7,288.33	731.12
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	438.65	
26 24 13 00-0291 EA 800 Amperes, 277/480 Volt, Main Breaker, Switchboard.....	8,023.60	1,098.75
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	659.24	
26 24 13 00-0292 EA 1,200 Amperes, 277/480 Volt, Main Breaker, Switchboard.....	13,542.94	1,538.21
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	922.93	
26 24 13 00-0293 EA 1,600 Amperes, 277/480 Volt, Main Breaker, Switchboard.....	13,869.64	1,701.58
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,020.94	
26 24 13 00-0294 EA 2,000 Amperes, 277/480 Volt, Main Breaker, Switchboard.....	18,737.87	3,051.97
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,831.21	
26 24 13 00-0295 Branch Or Distribution Devices (26 24 13)		
26 24 13 00-0296 3 Pole, Panel Mounted, Molded Case Circuit Breakers (26 24 13 00-0295)		
Note: Includes certified refurbished circuit breakers.		
26 24 13 00-0297 EA 15 To 60 Amperes, 600 Volt, Type EHB, 3 Pole, Panel Mounted, Molded Case Circuit Breaker.....	667.84	55.38
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.92	
26 24 13 00-0298 EA 70 To 100 Amperes, 600 Volt, Type EHB, 3 Pole, Panel Mounted, Molded Case Circuit Breaker.....	679.54	69.22
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	46.15	
26 24 13 00-0299 EA 125 To 150 Amperes, 600 Volt, Type FB, 3 Pole, Panel Mounted, Molded Case Circuit Breaker.....	1,603.30	83.06
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	55.37	
26 24 13 00-0300 EA 70 To 225 Amperes, 600 Volt, Type JDB, 3 Pole, Panel Mounted, Molded Case Circuit Breaker.....	2,319.92	107.68
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	71.53	
26 24 13 00-0301 EA 125 To 400 Amperes, 600 Volt, Type LBB, 3 Pole, Panel Mounted, Molded Case Circuit Breaker.....	3,263.77	132.90
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	88.60	
26 24 13 00-0302 EA 300 To 600 Amperes, 600 Volt, Type LC, 3 Pole, Panel Mounted, Molded Case Circuit Breaker.....	4,267.73	155.36
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	103.83	
26 24 13 00-0303 EA 900 To 1,000 Amperes, 600 Volt, Type NB, 3 Pole, Panel Mounted, Molded Case Circuit Breaker.....	6,491.22	175.36
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	117.21	
26 24 13 00-0304 2 Pole, Panel Mounted, Molded Case Circuit Breakers (26 24 13 00-0295)		
Note: Includes certified refurbished circuit breakers.		
26 24 13 00-0305 EA 15 To 60 Amperes, 600 Volt, Type EHB, 2 Pole, Panel Mounted, Molded Case Circuit Breaker.....	461.45	41.53
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.69	
26 24 13 00-0306 EA 70 To 100 Amperes, 600 Volt, Type EHB, 2 Pole, Panel Mounted, Molded Case Circuit Breaker.....	593.66	55.38
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.92	
26 24 13 00-0307 EA 125 To 150 Amperes, 600 Volt, Type FB, 2 Pole, Panel Mounted, Molded Case Circuit Breaker.....	1,592.46	69.22
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	46.15	
26 24 13 00-0308 EA 70 To 225 Amperes, 600 Volt, Type JDB, 2 Pole, Panel Mounted, Molded Case Circuit Breaker.....	2,510.29	76.91
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	50.76	
26 24 13 00-0309 EA 125 To 400 Amperes, 600 Volt, Type LBB, 2 Pole, Panel Mounted, Molded Case Circuit Breaker.....	2,660.30	99.98
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	66.91	
26 24 13 00-0310 EA 900 To 1,000 Amperes, 600 Volt, Type NB, 2 Pole, Panel Mounted, Molded Case Circuit Breaker.....	5,997.89	145.36
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	96.91	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 13 00-0311		Meter Devices And Instrumentation ^(26 24 13) Note: Factory installed accessories.		
26 24 13 00-0312		Compartments For Instrument Transformers And Metering Devices ^(26 24 13 00-0311)		
26 24 13 00-0313	EA	Compartment For, Up To 800 Amperes, Primary Current Transformer.....	431.54	
26 24 13 00-0314	EA	Compartment For, 1,000 To 1,500 Amperes, Primary Current Transformer.....	623.33	
26 24 13 00-0315	EA	Compartment For, 2,000 To 6,000 Amperes, Primary Current Transformer.....	734.11	
26 24 13 00-0316		Instruments ^(26 24 13 00-0311)		
26 24 13 00-0317	EA	AC Voltmeter	588.61	
26 24 13 00-0318	EA	AC Ammeter	588.61	
26 24 13 00-0319	EA	AC Wattmeter	1,572.38	
26 24 13 00-0320	EA	Variometer	1,775.74	
26 24 13 00-0321	EA	Power Factor Meter	1,418.61	
26 24 13 00-0322	EA	Frequency Meter.....	1,565.76	
26 24 13 00-0323	EA	200 Volt-Amperes Max Potential Transformer	529.09	
26 24 13 00-0324	EA	AC Watt-hour Meter Indicating 1 Or 2 Element With Test Block And Plug Block.....	1,992.34	
26 24 13 00-0325	EA	AC Watt-hour Meter Recording 2 Element With Recording KW Demand Type R-2.....	3,333.24	
26 24 13 00-0326	EA	Weatherproof, Modify Meter	3,408.73	
26 24 13 00-0327	EA	Control Switch Resistor Type 130 V	85.30	
26 24 13 00-0328	EA	Metering Instrument: Voltage, Amperes And Watt Hour	4,020.73	
26 24 16		Panelboards ^(26 24)		
26 24 16 00-0001		Branch Circuit Panelboard ^(26 24 16) Note: Includes wiring connections, drilling hole (or removing knock-out on residential units), labeling and testing. All NEMA 3R panelboards include weatherproof hubs. Copper bussing. Panelboards with less than a 30 circuit capacity do not have the door in a door trim front option.		
26 24 16 00-0002		Assembled Lighting And Power Panelboards ^(26 24 16 00-0001) Note: Includes main lugs or breaker (as indicated). 20 Amp, 1 pole branch circuit plug-on breakers (the number of which is indicated). Panelboard box, trim and connection of main service cable from meter.		
26 24 16 00-0003		120/240 Volt, 3 Wire, 1 Phase, Main Lugs Assembled Panelboards ^(26 24 16 00-0002)		
26 24 16 00-0004	EA	100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 12 Circuit Capacity Assembled Panelboard With Eight 20 Ampere Breakers.....	1,427.87	438.39
		<i>For NEMA 3R Panelboard, Add</i>	1,523.32	
26 24 16 00-0005	EA	100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Ten 20 Ampere Breakers.....	1,635.54	438.39
		<i>For NEMA 3R Panelboard, Add</i>	1,523.32	
26 24 16 00-0006	EA	100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Twelve 20 Ampere Breakers	1,867.64	607.60
		<i>For NEMA 3R Panelboard, Add</i>	1,523.32	
26 24 16 00-0007	EA	100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Fourteen 20 Ampere Breakers	2,099.39	607.60
		<i>For NEMA 3R Panelboard, Add</i>	1,523.32	
26 24 16 00-0008	EA	100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Sixteen 20 Ampere Breakers.....	2,320.08	761.42
		<i>For NEMA 3R Panelboard, Add</i>	1,523.32	
26 24 16 00-0009	EA	100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 24 Circuit Capacity Assembled Panelboard With Eighteen 20 Ampere Breakers.....	2,546.39	761.42
		<i>For NEMA 3R Panelboard, Add</i>	1,523.32	
26 24 16 00-0010	EA	100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 24 Circuit Capacity Assembled Panelboard With Twenty 20 Ampere Breakers	2,764.32	876.78
		<i>For NEMA 3R Panelboard, Add</i>	1,523.32	
26 24 16 00-0011	EA	225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Two 20 Ampere Breakers	3,337.28	1,122.90
		<i>For NEMA 3R Panelboard, Add</i>	1,675.24	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	122.41	
26 24 16 00-0012	EA	225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Four 20 Ampere Breakers.....	3,524.40	1,122.90
		<i>For NEMA 3R Panelboard, Add</i>	1,675.24	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	122.41	
26 24 16 00-0013	EA	225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Six 20 Ampere Breakers.....	3,702.92	1,284.41
		<i>For NEMA 3R Panelboard, Add</i>	1,675.24	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	122.41	
26 24 16 00-0014	EA	225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Twenty-Eight 20 Ampere Breakers.....	3,987.84	1,284.41
		<i>For NEMA 3R Panelboard, Add</i>	1,978.86	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	209.06	
26 24 16 00-0015	EA	225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty 20 Ampere Breakers.....	4,160.72	1,445.92
		<i>For NEMA 3R Panelboard, Add</i>	1,978.86	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	209.06	
26 24 16 00-0016	EA	225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers.....	4,423.28	1,445.92
		<i>For NEMA 3R Panelboard, Add</i>	1,978.86	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	209.06	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0017 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers	4,590.79	1,599.74
<i>For NEMA 3R Panelboard, Add</i>	1,978.86	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	209.06	
26 24 16 00-0018 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers.....	4,845.53	1,599.74
<i>For NEMA 3R Panelboard, Add</i>	1,978.86	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	209.06	
26 24 16 00-0019 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers	5,087.47	1,768.95
<i>For NEMA 3R Panelboard, Add</i>	1,978.86	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	209.06	
26 24 16 00-0020 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers	5,247.98	1,768.95
<i>For NEMA 3R Panelboard, Add</i>	2,059.59	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	267.20	
26 24 16 00-0021 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers.....	5,499.62	1,768.95
<i>For NEMA 3R Panelboard, Add</i>	2,059.59	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	267.20	
26 24 16 00-0022 120/240 Volt, 3 Wire, 1 Phase, Main Breaker Assembled Panelboards <small>(26 24 16 00-0002)</small>		
26 24 16 00-0023 EA 50 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Up To 50 Ampere Main Breaker, 12 Circuit Capacity Assembled Panelboard With Eight 20 Ampere Breakers	1,646.64	423.01
<i>For NEMA 3R Panelboard, Add</i>	1,523.32	
26 24 16 00-0024 EA 50 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Up To 50 Ampere Main Breaker, 12 Circuit Capacity Assembled Panelboard With Ten 20 Ampere Breakers	1,857.64	423.01
<i>For NEMA 3R Panelboard, Add</i>	1,523.32	
26 24 16 00-0025 EA 100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >50 To 100 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Twelve 20 Ampere Breakers	2,359.98	722.96
<i>For NEMA 3R Panelboard, Add</i>	1,523.32	
26 24 16 00-0026 EA 100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >50 To 100 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Fourteen 20 Ampere Breakers	2,670.97	722.96
<i>For NEMA 3R Panelboard, Add</i>	1,523.32	
26 24 16 00-0027 EA 100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >50 To 100 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Sixteen 20 Ampere Breakers.....	2,895.87	884.47
<i>For NEMA 3R Panelboard, Add</i>	1,523.32	
26 24 16 00-0028 EA 100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >50 To 100 Ampere Main Breaker, 24 Circuit Capacity Assembled Panelboard With Eighteen 20 Ampere Breakers	3,131.26	884.47
<i>For NEMA 3R Panelboard, Add</i>	1,523.32	
26 24 16 00-0029 EA 100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >50 To 100 Ampere Main Breaker, 24 Circuit Capacity Assembled Panelboard With Twenty 20 Ampere Breakers	3,338.65	1,061.37
<i>For NEMA 3R Panelboard, Add</i>	1,523.32	
26 24 16 00-0030 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Two 20 Ampere Breakers	4,026.37	1,061.37
<i>For NEMA 3R Panelboard, Add</i>	1,675.24	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	122.41	
26 24 16 00-0031 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Four 20 Ampere Breakers.....	4,213.84	1,299.79
<i>For NEMA 3R Panelboard, Add</i>	1,675.24	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	122.41	
26 24 16 00-0032 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Six 20 Ampere Breakers.....	4,418.76	1,299.79
<i>For NEMA 3R Panelboard, Add</i>	1,675.24	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	122.41	
26 24 16 00-0033 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Twenty-Eight 20 Ampere Breakers.....	4,644.64	1,461.31
<i>For NEMA 3R Panelboard, Add</i>	1,978.86	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	209.06	
26 24 16 00-0034 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty 20 Ampere Breakers.....	4,824.96	1,461.31
<i>For NEMA 3R Panelboard, Add</i>	1,978.86	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	209.06	
26 24 16 00-0035 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers.....	5,018.21	1,599.74
<i>For NEMA 3R Panelboard, Add</i>	1,978.86	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	209.06	
26 24 16 00-0036 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers	5,226.37	1,599.74
<i>For NEMA 3R Panelboard, Add</i>	1,978.86	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	209.06	
26 24 16 00-0037 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers.....	5,451.88	1,892.00
<i>For NEMA 3R Panelboard, Add</i>	1,978.86	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	209.06	
26 24 16 00-0038 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers	5,697.68	1,892.00
<i>For NEMA 3R Panelboard, Add</i>	1,978.86	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	209.06	
26 24 16 00-0039 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers	5,967.49	1,892.00
<i>For NEMA 3R Panelboard, Add</i>	2,059.59	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	267.20	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24	16 00-0040	EA	225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers.....	6,130.63	1,999.68
			<i>For NEMA 3R Panelboard, Add</i>	2,059.59	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	267.20	
26 24	16 00-0041		120/208 Volt, 4 Wire, 3 Phase, Main Lugs Assembled Panelboards (26 24 16 00-0002)		
26 24	16 00-0042	EA	100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 12 Circuit Capacity Assembled Panelboard With Eight 20 Ampere Breakers.....	1,711.85	499.92
			<i>For NEMA 3R Panelboard, Add</i>	1,523.32	
26 24	16 00-0043	EA	100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Ten 20 Ampere Breakers.....	1,932.64	499.92
			<i>For NEMA 3R Panelboard, Add</i>	1,523.32	
26 24	16 00-0044	EA	100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Twelve 20 Ampere Breakers.....	2,180.96	669.13
			<i>For NEMA 3R Panelboard, Add</i>	1,523.32	
26 24	16 00-0045	EA	100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Fourteen 20 Ampere Breakers.....	2,438.72	669.13
			<i>For NEMA 3R Panelboard, Add</i>	1,523.32	
26 24	16 00-0046	EA	100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Sixteen 20 Ampere Breakers.....	2,671.79	822.95
			<i>For NEMA 3R Panelboard, Add</i>	1,523.32	
26 24	16 00-0047	EA	100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 24 Circuit Capacity Assembled Panelboard With Eighteen 20 Ampere Breakers.....	2,921.77	822.95
			<i>For NEMA 3R Panelboard, Add</i>	1,523.32	
26 24	16 00-0048	EA	100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 24 Circuit Capacity Assembled Panelboard With Twenty 20 Ampere Breakers.....	3,155.61	976.76
			<i>For NEMA 3R Panelboard, Add</i>	1,523.32	
26 24	16 00-0049	EA	100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Two 20 Ampere Breakers.....	3,403.84	976.76
			<i>For NEMA 3R Panelboard, Add</i>	1,675.24	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	122.41	
26 24	16 00-0050	EA	100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Four 20 Ampere Breakers.....	3,627.41	1,145.97
			<i>For NEMA 3R Panelboard, Add</i>	1,675.24	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	122.41	
26 24	16 00-0051	EA	100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Six 20 Ampere Breakers.....	3,884.77	1,145.97
			<i>For NEMA 3R Panelboard, Add</i>	1,675.24	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	122.41	
26 24	16 00-0052	EA	100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Eight 20 Ampere Breakers.....	4,153.13	1,322.87
			<i>For NEMA 3R Panelboard, Add</i>	1,675.24	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	122.41	
26 24	16 00-0053	EA	100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Thirty 20 Ampere Breakers.....	4,410.41	1,322.87
			<i>For NEMA 3R Panelboard, Add</i>	1,675.24	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	122.41	
26 24	16 00-0054	EA	225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers.....	4,943.67	1,599.74
			<i>For NEMA 3R Panelboard, Add</i>	1,978.86	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	209.06	
26 24	16 00-0055	EA	225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers.....	5,131.84	1,599.74
			<i>For NEMA 3R Panelboard, Add</i>	1,978.86	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	209.06	
26 24	16 00-0056	EA	225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers.....	5,428.47	1,776.64
			<i>For NEMA 3R Panelboard, Add</i>	1,978.86	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	209.06	
26 24	16 00-0057	EA	225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers.....	5,707.43	1,776.64
			<i>For NEMA 3R Panelboard, Add</i>	1,978.86	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	209.06	
26 24	16 00-0058	EA	225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers.....	5,896.14	1,938.15
			<i>For NEMA 3R Panelboard, Add</i>	2,059.59	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	267.20	
26 24	16 00-0059	EA	225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers.....	6,184.92	1,938.15
			<i>For NEMA 3R Panelboard, Add</i>	2,059.59	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	267.20	
26 24	16 00-0060	EA	400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers.....	5,892.52	1,719.72
			<i>For NEMA 3R Panelboard, Add</i>	1,978.86	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	209.06	
26 24	16 00-0061	EA	400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers.....	6,099.73	1,807.40
			<i>For NEMA 3R Panelboard, Add</i>	1,978.86	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	209.06	
26 24	16 00-0062	EA	400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers.....	6,411.47	1,903.54
			<i>For NEMA 3R Panelboard, Add</i>	1,978.86	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	209.06	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0063 EA 400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	6,714.16 1,978.86 209.06	2,015.07
26 24 16 00-0064 EA 400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	6,916.86 2,059.59 267.20	2,076.59
26 24 16 00-0065 EA 400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	7,258.28 2,059.59 267.20	2,203.49
26 24 16 00-0066 120/208 Volt, 4 Wire, 3 Phase, Main Breaker Assembled Panelboards <small>(26 24 16 00-0002)</small>		
26 24 16 00-0067 EA 50 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Up To 50 Ampere Main Breaker, 12 Circuit Capacity Assembled Panelboard With Eight 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i>	1,979.93 1,523.32	484.54
26 24 16 00-0068 EA 50 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Up To 50 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Ten 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i>	2,203.86 1,523.32	484.54
26 24 16 00-0069 EA 50 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Up To 50 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Twelve 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i>	2,464.64 1,523.32	638.36
26 24 16 00-0070 EA 50 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Up To 50 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Fourteen 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i>	2,806.31 1,523.32	638.36
26 24 16 00-0071 EA 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Sixteen 20 Ampere Breakers..... <i>For NEMA 3R Panelboard, Add</i>	3,381.38 1,523.32	961.39
26 24 16 00-0072 EA 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 24 Circuit Capacity Assembled Panelboard With Eighteen 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i>	3,607.50 1,523.32	961.39
26 24 16 00-0073 EA 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 24 Circuit Capacity Assembled Panelboard With Twenty 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i>	3,855.70 1,523.32	1,122.90
26 24 16 00-0074 EA 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Two 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	4,066.86 1,675.24 122.41	1,122.90
26 24 16 00-0075 EA 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Four 20 Ampere Breakers..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	4,343.30 1,675.24 122.41	1,299.79
26 24 16 00-0076 EA 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Six 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	4,540.88 1,675.24 122.41	1,299.79
26 24 16 00-0077 EA 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Eight 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	4,840.41 1,675.24 122.41	1,461.31
26 24 16 00-0078 EA 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Thirty 20 Ampere Breakers..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	5,091.85 1,675.24 122.41	1,461.31
26 24 16 00-0079 EA 225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	5,950.20 1,978.86 209.06	1,692.04
26 24 16 00-0080 EA 225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	6,223.72 1,978.86 209.06	1,784.33
26 24 16 00-0081 EA 225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	6,345.96 1,978.86 209.06	1,784.33
26 24 16 00-0082 EA 225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	6,656.08 1,978.86 209.06	2,015.07
26 24 16 00-0083 EA 225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	6,863.56 2,059.59 267.20	2,015.07
26 24 16 00-0084 EA 225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty-Two- 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	7,013.29 2,059.59 267.20	2,015.07
26 24 16 00-0085 EA 400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >225 To 400 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	6,930.14 1,978.86 209.06	1,853.55

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0086 EA 400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >225 To 400 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers.....	7,231.94	1,961.22
For NEMA 3R Panelboard, Add	1,978.86	
For Door-In-Door (Hinged) Trim Front, Add	209.06	
26 24 16 00-0087 EA 400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >225 To 400 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers.....	7,358.96	2,015.07
For NEMA 3R Panelboard, Add	1,978.86	
For Door-In-Door (Hinged) Trim Front, Add	209.06	
26 24 16 00-0088 EA 400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >225 To 400 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers.....	7,695.40	2,138.12
For NEMA 3R Panelboard, Add	1,978.86	
For Door-In-Door (Hinged) Trim Front, Add	209.06	
26 24 16 00-0089 EA 400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >225 To 400 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers.....	7,902.32	2,199.65
For NEMA 3R Panelboard, Add	2,059.59	
For Door-In-Door (Hinged) Trim Front, Add	267.20	
26 24 16 00-0090 EA 400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >225 To 400 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers.....	8,107.75	2,276.56
For NEMA 3R Panelboard, Add	2,059.59	
For Door-In-Door (Hinged) Trim Front, Add	267.20	
26 24 16 00-0091 480 Volt, 3 Wire, 3 Phase, Main Lugs Assembled Panelboards (26 24 16 00-0002)		
26 24 16 00-0092 EA 100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 12 Circuit Capacity Assembled Panelboard With Eight 20 Ampere Breakers.....	1,894.83	492.23
For NEMA 3R Panelboard, Add	1,523.32	
26 24 16 00-0093 EA 100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Ten 20 Ampere Breakers.....	2,180.95	492.23
For NEMA 3R Panelboard, Add	1,523.32	
26 24 16 00-0094 EA 100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Twelve 20 Ampere Breakers.....	2,453.85	676.81
For NEMA 3R Panelboard, Add	1,523.32	
26 24 16 00-0095 EA 100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Fourteen 20 Ampere Breakers.....	2,739.91	676.81
For NEMA 3R Panelboard, Add	1,523.32	
26 24 16 00-0096 EA 100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Sixteen 20 Ampere Breakers.....	3,004.46	846.02
For NEMA 3R Panelboard, Add	1,523.32	
26 24 16 00-0097 EA 100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 24 Circuit Capacity Assembled Panelboard With Eighteen 20 Ampere Breakers.....	3,285.00	846.02
For NEMA 3R Panelboard, Add	1,523.32	
26 24 16 00-0098 EA 100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 24 Circuit Capacity Assembled Panelboard With Twenty 20 Ampere Breakers.....	3,579.22	1,022.91
For NEMA 3R Panelboard, Add	1,523.32	
26 24 16 00-0099 EA 100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Two 20 Ampere Breakers.....	3,846.07	1,022.91
For NEMA 3R Panelboard, Add	1,675.24	
For Door-In-Door (Hinged) Trim Front, Add	122.41	
26 24 16 00-0100 EA 100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Four 20 Ampere Breakers.....	4,142.79	1,215.19
For NEMA 3R Panelboard, Add	1,675.24	
For Door-In-Door (Hinged) Trim Front, Add	122.41	
26 24 16 00-0101 EA 100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Six 20 Ampere Breakers.....	4,428.08	1,215.19
For NEMA 3R Panelboard, Add	1,675.24	
For Door-In-Door (Hinged) Trim Front, Add	122.41	
26 24 16 00-0102 EA 100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Eight 20 Ampere Breakers.....	4,687.68	1,384.39
For NEMA 3R Panelboard, Add	1,675.24	
For Door-In-Door (Hinged) Trim Front, Add	122.41	
26 24 16 00-0103 EA 100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Thirty 20 Ampere Breakers.....	4,968.22	1,384.39
For NEMA 3R Panelboard, Add	1,675.24	
For Door-In-Door (Hinged) Trim Front, Add	122.41	
26 24 16 00-0104 EA 225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers.....	5,582.35	1,684.35
For NEMA 3R Panelboard, Add	1,978.86	
For Door-In-Door (Hinged) Trim Front, Add	209.06	
26 24 16 00-0105 EA 225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers.....	5,862.52	1,684.35
For NEMA 3R Panelboard, Add	1,978.86	
For Door-In-Door (Hinged) Trim Front, Add	209.06	
26 24 16 00-0106 EA 225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers.....	6,163.00	1,845.86
For NEMA 3R Panelboard, Add	1,978.86	
For Door-In-Door (Hinged) Trim Front, Add	209.06	
26 24 16 00-0107 EA 225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers.....	6,373.22	1,845.86
For NEMA 3R Panelboard, Add	1,978.86	
For Door-In-Door (Hinged) Trim Front, Add	209.06	
26 24 16 00-0108 EA 225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers.....	6,711.35	2,038.14
For NEMA 3R Panelboard, Add	2,059.59	
For Door-In-Door (Hinged) Trim Front, Add	267.20	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	26 24 16 00-0109	EA		225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	6,943.07 2,059.59 267.20	2,038.14
26 24 16 00-0110				480 Volt, 3 Wire, 3 Phase, Main Breaker Assembled Panelboards <small>(26 24 16 00-0002)</small>		
	26 24 16 00-0111	EA		50 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Up To 50 Amp Main Breaker, 12 Circuit Capacity Assembled Panelboard With Eight 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i>	2,389.36 1,523.32	522.99
	26 24 16 00-0112	EA		50 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Up To 50 Amp Main Breaker, 20 Circuit Capacity Assembled Panelboard With Ten 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i>	2,668.17 1,523.32	569.14
	26 24 16 00-0113	EA		50 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Up To 50 Amp Main Breaker, 20 Circuit Capacity Assembled Panelboard With Twelve 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i>	2,950.43 1,523.32	707.57
	26 24 16 00-0114	EA		100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Amp Main Breaker, 20 Circuit Capacity Assembled Panelboard With Fourteen 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i>	3,557.66 1,523.32	861.40
	26 24 16 00-0115	EA		100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Amp Main Breaker, 20 Circuit Capacity Assembled Panelboard With Sixteen 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i>	3,831.03 1,523.32	953.69
	26 24 16 00-0116	EA		100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Amp Main Breaker, 24 Circuit Capacity Assembled Panelboard With Eighteen 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i>	4,077.37 1,523.32	1,030.61
	26 24 16 00-0117	EA		100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 24 Circuit Capacity Assembled Panelboard With Twenty 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i>	4,352.12 1,523.32	1,122.90
	26 24 16 00-0118	EA		100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Two 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	4,615.31 1,675.24 122.41	1,215.19
	26 24 16 00-0119	EA		100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Four 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	4,853.37 1,675.24 122.41	1,292.10
	26 24 16 00-0120	EA		100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Six 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	5,111.11 1,675.24 122.41	1,369.01
	26 24 16 00-0121	EA		100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Eight 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	5,392.66 1,675.24 122.41	1,461.31
	26 24 16 00-0122	EA		100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Thirty 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	5,703.34 1,675.24 122.41	1,576.67
	26 24 16 00-0123	EA		225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	7,050.10 1,978.86 209.06	1,753.57
	26 24 16 00-0124	EA		225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	7,346.69 1,978.86 209.06	1,861.24
	26 24 16 00-0125	EA		225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	7,548.25 1,978.86 209.06	1,907.39
	26 24 16 00-0126	EA		225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	7,885.78 1,978.86 209.06	2,030.44
	26 24 16 00-0127	EA		225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	8,110.75 2,059.59 267.20	2,107.36
	26 24 16 00-0128	EA		225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	8,345.22 2,059.59 267.20	2,173.50
26 24 16 00-0129				277/480 Volt, 4 Wire, 3 Phase, Main Lugs Assembled Panelboards <small>(26 24 16 00-0002)</small>		
	26 24 16 00-0130	EA		100 Ampere Rating , 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 12 Circuit Capacity Assembled Panelboard With Eight 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i>	2,275.81 1,523.32	538.38
	26 24 16 00-0131	EA		100 Ampere Rating , 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Ten 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i>	2,588.34 1,523.32	538.38
	26 24 16 00-0132	EA		100 Ampere Rating , 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Twelve 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i>	2,891.54 1,523.32	715.27

26	Electrical
26 20	Low-Voltage Electrical Distribution
26 24	Switchboards and Panelboards



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0133	EA	100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Fourteen 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i>	3,197.59 1,523.32	715.27
26 24 16 00-0134	EA	100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Sixteen 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i>	3,509.43 1,523.32	884.47
26 24 16 00-0135	EA	100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 24 Circuit Capacity Assembled Panelboard With Eighteen 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i>	3,813.80 1,523.32	884.47
26 24 16 00-0136	EA	100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 24 Circuit Capacity Assembled Panelboard With Twenty 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i>	4,123.98 1,523.32	1,061.37
26 24 16 00-0137	EA	100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Two 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	4,432.64 1,675.24 122.41	1,061.37
26 24 16 00-0138	EA	100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Four 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	4,774.38 1,675.24 122.41	1,245.95
26 24 16 00-0139	EA	100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Six 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	5,052.76 1,675.24 122.41	1,245.95
26 24 16 00-0140	EA	100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Eight 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	5,349.64 1,675.24 122.41	1,253.65
26 24 16 00-0141	EA	100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 32 Circuit Capacity Assembled Panelboard With Thirty 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	5,668.85 1,675.24 122.41	1,253.65
26 24 16 00-0142	EA	225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	6,472.29 1,978.86 209.06	1,738.18
26 24 16 00-0143	EA	225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	6,798.07 1,978.86 209.06	1,738.18
26 24 16 00-0144	EA	225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	7,038.21 1,978.86 209.06	1,830.47
26 24 16 00-0145	EA	225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	7,398.55 1,978.86 209.06	1,953.54
26 24 16 00-0146	EA	225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	7,658.31 2,059.59 267.20	1,953.54
26 24 16 00-0147	EA	225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	8,063.73 2,059.59 267.20	2,138.12
26 24 16 00-0148		277/480 Volt, 4 Wire, 3 Phase, Main Breaker Assembled Panelboards <small>(26 24 16 00-0002)</small>		
26 24 16 00-0149	EA	50 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, 50 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Eight 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i>	2,938.31 1,523.32	661.43
26 24 16 00-0150	EA	50 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, 50 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Ten 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i>	3,259.38 1,523.32	661.43
26 24 16 00-0151	EA	50 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, 50 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Twelve 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i>	3,566.53 1,523.32	876.78
26 24 16 00-0152	EA	100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Fourteen 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i>	4,255.44 1,523.32	876.78
26 24 16 00-0153	EA	100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Sixteen 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i>	4,556.89 1,523.32	1,107.51
26 24 16 00-0154	EA	100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 24 Circuit Capacity Assembled Panelboard With Eighteen 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i>	4,857.78 1,523.32	1,107.51
26 24 16 00-0155	EA	100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 24 Circuit Capacity Assembled Panelboard With Twenty 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i>	5,147.12 1,523.32	1,269.02
26 24 16 00-0156	EA	100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Two 20 Ampere Breakers <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	5,411.31 1,675.24 122.41	1,269.02



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0157	EA		100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Four 20 Ampere Breakers.....	5,695.19	1,445.92
			<i>For NEMA 3R Panelboard, Add</i>	1,675.24	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	122.41	
26 24 16 00-0158	EA		100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Six 20 Ampere Breakers.....	6,002.87	1,445.92
			<i>For NEMA 3R Panelboard, Add</i>	1,675.24	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	122.41	
26 24 16 00-0159	EA		100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Eight 20 Ampere Breakers.....	6,261.55	1,599.74
			<i>For NEMA 3R Panelboard, Add</i>	1,675.24	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	122.41	
26 24 16 00-0160	EA		100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Thirty 20 Ampere Breakers.....	6,535.15	1,599.74
			<i>For NEMA 3R Panelboard, Add</i>	1,675.24	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	122.41	
26 24 16 00-0161	EA		225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers.....	8,373.14	1,892.00
			<i>For NEMA 3R Panelboard, Add</i>	1,978.86	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	209.06	
26 24 16 00-0162	EA		225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers.....	8,712.72	1,892.00
			<i>For NEMA 3R Panelboard, Add</i>	1,978.86	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	209.06	
26 24 16 00-0163	EA		225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers.....	8,951.72	2,068.90
			<i>For NEMA 3R Panelboard, Add</i>	1,978.86	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	209.06	
26 24 16 00-0164	EA		225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers.....	9,336.41	2,068.90
			<i>For NEMA 3R Panelboard, Add</i>	1,978.86	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	209.06	
26 24 16 00-0165	EA		225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers.....	9,601.37	2,261.17
			<i>For NEMA 3R Panelboard, Add</i>	2,059.59	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	267.20	
26 24 16 00-0166	EA		225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers.....	9,876.86	2,261.17
			<i>For NEMA 3R Panelboard, Add</i>	2,059.59	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	267.20	
26 24 16 00-0167	EA		400 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >225 To 400 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers.....	11,616.38	2,518.06
			<i>For NEMA 3R Panelboard, Add</i>	2,059.59	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	267.20	
26 24 16 00-0168	EA		600 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >400 To 600 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers.....	14,117.61	3,022.59
			<i>For NEMA 3R Panelboard, Add</i>	2,059.59	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	267.20	
26 24 16 00-0169			Unassembled Lighting And Power Panelboards <small>(26 24 16 00-0001)</small> Note: Includes the main device (lugs or breaker), connection of main service cable from meter and that portion of the panel box, trim and interior occupied by that device. Spaces include that portion of the panel box, trim and interior reserved by that space. The maximum single pole capacity of the panelboard main device (lugs, breakers) is indicated. Excludes branch breakers. A complete panelboard will be the sum of main device and the branch circuit breakers and spaces (within the capacity of the main device). See CSI section 26 28 16 13-0001 for circuit breakers.		
26 24 16 00-0170			240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboards <small>(26 24 16 00-0169)</small> Note: As manufactured by Square D or equal. Accepts plug-on and bolt-on breakers.		
26 24 16 00-0171			Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboards <small>(26 24 16 00-0170)</small>		
26 24 16 00-0172	EA		100 Ampere Rating, 12 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard.....	693.96	
26 24 16 00-0173	EA		100 Ampere Rating, 20 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard.....	802.88	
26 24 16 00-0174	EA		225 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard.....	1,112.60	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	122.41	
26 24 16 00-0175	EA		225 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard.....	1,288.11	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	209.06	
26 24 16 00-0176	EA		225 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard.....	1,461.34	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	267.20	
26 24 16 00-0177	EA		400 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard.....	1,643.00	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	122.41	
26 24 16 00-0178	EA		400 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard.....	1,787.25	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	209.06	
26 24 16 00-0179	EA		400 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard.....	1,961.32	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	267.20	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0180	EA	600 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,203.47	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	122.41	
26 24 16 00-0181	EA	600 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,349.47	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	209.06	
26 24 16 00-0182	EA	600 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,576.88	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	267.20	
26 24 16 00-0183		Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboards <small>(26 24 16 00-0170)</small>		
26 24 16 00-0184	EA	100 Ampere Rating, 12 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,037.90	
26 24 16 00-0185	EA	100 Ampere Rating, 20 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,183.30	
26 24 16 00-0186	EA	225 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,910.75	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	122.41	
26 24 16 00-0187	EA	225 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,130.37	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	209.06	
26 24 16 00-0188	EA	225 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,340.51	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	267.20	
26 24 16 00-0189	EA	400 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	3,944.76	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	122.41	
26 24 16 00-0190	EA	400 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	4,209.75	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	209.06	
26 24 16 00-0191	EA	400 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	4,444.08	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	267.20	
26 24 16 00-0192		Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboards <small>(26 24 16 00-0170)</small>		
26 24 16 00-0193	EA	100 Ampere Rating, 12 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,353.24	
26 24 16 00-0194	EA	100 Ampere Rating, 20 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,454.63	
26 24 16 00-0195	EA	225 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,748.65	
26 24 16 00-0196	EA	225 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,921.02	
26 24 16 00-0197	EA	225 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,082.31	
26 24 16 00-0198	EA	400 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,385.79	
26 24 16 00-0199	EA	400 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,521.87	
26 24 16 00-0200	EA	400 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,688.41	
26 24 16 00-0201	EA	600 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,988.33	
26 24 16 00-0202	EA	600 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	3,129.21	
26 24 16 00-0203	EA	600 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	3,344.80	
26 24 16 00-0204		Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboards <small>(26 24 16 00-0170)</small>		
26 24 16 00-0205	EA	100 Ampere Rating, 12 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,689.65	
26 24 16 00-0206	EA	100 Ampere Rating, 20 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	1,826.88	
26 24 16 00-0207	EA	225 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,668.60	
26 24 16 00-0208	EA	225 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	2,873.16	
26 24 16 00-0209	EA	225 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	3,071.99	
26 24 16 00-0210	EA	400 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	4,660.55	
26 24 16 00-0211	EA	400 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	4,918.00	
26 24 16 00-0212	EA	400 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard	5,150.45	



Electrical	26	26
Low-Voltage Electrical Distribution	26 20	
Switchboards and Panelboards	26 24	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0213 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboards <small>(26 24 16 00-0169)</small>		
<i>Note: As manufactured by Square D or equal. Accepts plug-on and bolt-on breakers</i>		
26 24 16 00-0214 Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboards <small>(26 24 16 00-0213)</small>		
26 24 16 00-0215 EA 100 Ampere Rating, 12 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	785.73	
26 24 16 00-0216 EA 100 Ampere Rating, 24 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	927.46	
26 24 16 00-0217 EA 100 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,050.62	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	<i>122.41</i>	
26 24 16 00-0218 EA 225 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,203.35	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	<i>122.41</i>	
26 24 16 00-0219 EA 225 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,387.52	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	<i>209.06</i>	
26 24 16 00-0220 EA 225 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,540.01	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	<i>267.20</i>	
26 24 16 00-0221 EA 400 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,777.89	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	<i>122.41</i>	
26 24 16 00-0222 EA 400 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,919.94	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	<i>209.06</i>	
26 24 16 00-0223 EA 400 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,078.95	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	<i>267.20</i>	
26 24 16 00-0224 EA 600 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,352.16	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	<i>122.41</i>	
26 24 16 00-0225 EA 600 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,587.85	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	<i>209.06</i>	
26 24 16 00-0226 EA 600 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	3,037.94	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	<i>267.20</i>	
26 24 16 00-0227 Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboards <small>(26 24 16 00-0213)</small>		
26 24 16 00-0228 EA 100 Ampere Rating, 12 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,213.24	
26 24 16 00-0229 EA 100 Ampere Rating, 24 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,370.87	
26 24 16 00-0230 EA 100 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,602.52	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	<i>122.41</i>	
26 24 16 00-0231 EA 225 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,343.08	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	<i>122.41</i>	
26 24 16 00-0232 EA 225 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,541.48	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	<i>209.06</i>	
26 24 16 00-0233 EA 225 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,737.41	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	<i>267.20</i>	
26 24 16 00-0234 EA 400 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	3,747.10	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	<i>122.41</i>	
26 24 16 00-0235 EA 400 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	3,997.36	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	<i>209.06</i>	
26 24 16 00-0236 EA 400 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	4,203.28	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	<i>267.20</i>	
26 24 16 00-0237 Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboards <small>(26 24 16 00-0213)</small>		
26 24 16 00-0238 EA 100 Ampere Rating, 12 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,445.01	
26 24 16 00-0239 EA 100 Ampere Rating, 24 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,579.20	
26 24 16 00-0240 EA 100 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,694.20	
26 24 16 00-0241 EA 225 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,839.40	
26 24 16 00-0242 EA 225 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,020.43	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0243 EA 225 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,160.99	
26 24 16 00-0244 EA 400 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,520.68	
26 24 16 00-0245 EA 400 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,654.57	
26 24 16 00-0246 EA 400 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,806.04	
26 24 16 00-0247 EA 600 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	3,137.02	
26 24 16 00-0248 EA 600 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	3,358.27	
26 24 16 00-0249 EA 600 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	3,808.35	
26 24 16 00-0250 Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboards <small>(26 24 16 00-0213)</small>		
26 24 16 00-0251 EA 100 Ampere Rating, 12 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,864.99	
26 24 16 00-0252 EA 100 Ampere Rating, 24 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,014.45	
26 24 16 00-0253 EA 100 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,241.70	
26 24 16 00-0254 EA 225 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	3,100.94	
26 24 16 00-0255 EA 225 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	3,284.27	
26 24 16 00-0256 EA 225 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	3,468.90	
26 24 16 00-0257 EA 400 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	5,121.17	
26 24 16 00-0258 EA 400 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	5,377.96	
26 24 16 00-0259 EA 400 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	5,594.92	
26 24 16 00-0260 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboards <small>(26 24 16 00-0169)</small>		
Note: As manufactured by Square D or equal.		
26 24 16 00-0261 Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboards <small>(26 24 16 00-0260)</small>		
26 24 16 00-0262 EA 125 Ampere Rating, 12 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,100.98	
26 24 16 00-0263 EA 125 Ampere Rating, 18 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,216.34	
26 24 16 00-0264 EA 250 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,693.05	
For Door-In-Door (Hinged) Trim Front, Add	122.41	
26 24 16 00-0265 EA 250 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,894.29	
For Door-In-Door (Hinged) Trim Front, Add	209.06	
26 24 16 00-0266 EA 250 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,069.05	
For Door-In-Door (Hinged) Trim Front, Add	267.20	
26 24 16 00-0267 EA 400 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,089.94	
For Door-In-Door (Hinged) Trim Front, Add	122.41	
26 24 16 00-0268 EA 400 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,210.65	
For Door-In-Door (Hinged) Trim Front, Add	209.06	
26 24 16 00-0269 EA 400 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,406.41	
For Door-In-Door (Hinged) Trim Front, Add	267.20	
26 24 16 00-0270 EA 600 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,618.61	
For Door-In-Door (Hinged) Trim Front, Add	122.41	
26 24 16 00-0271 EA 600 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,807.81	
For Door-In-Door (Hinged) Trim Front, Add	209.06	
26 24 16 00-0272 EA 600 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	3,072.15	
For Door-In-Door (Hinged) Trim Front, Add	267.20	
26 24 16 00-0273 Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboards <small>(26 24 16 00-0260)</small>		
26 24 16 00-0274 EA 100 Ampere Rating, 12 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,212.27	
26 24 16 00-0275 EA 100 Ampere Rating, 18 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,281.72	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0276	EA		125 Ampere Rating, 18 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,480.22	
26 24 16 00-0277	EA		125 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,622.51	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	122.41	
26 24 16 00-0278	EA		125 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,923.67	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	209.06	
26 24 16 00-0279	EA		250 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	3,794.96	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	122.41	
26 24 16 00-0280	EA		250 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	3,973.98	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	209.06	
26 24 16 00-0281	EA		250 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	4,208.81	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	267.20	
26 24 16 00-0282	EA		400 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	4,385.96	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	122.41	
26 24 16 00-0283	EA		400 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	4,649.80	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	209.06	
26 24 16 00-0284	EA		400 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	4,883.68	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	267.20	
26 24 16 00-0285			Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboards <small>(26 24 16 00-0260)</small>		
26 24 16 00-0286	EA		125 Ampere Rating, 12 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,737.66	
26 24 16 00-0287	EA		125 Ampere Rating, 18 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,853.02	
26 24 16 00-0288	EA		250 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,314.66	
26 24 16 00-0289	EA		250 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,625.15	
26 24 16 00-0290	EA		250 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,787.35	
26 24 16 00-0291	EA		400 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,808.25	
26 24 16 00-0292	EA		400 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,910.12	
26 24 16 00-0293	EA		400 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	3,078.87	
26 24 16 00-0294	EA		600 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	3,353.86	
26 24 16 00-0295	EA		600 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	3,527.80	
26 24 16 00-0296	EA		600 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	3,759.38	
26 24 16 00-0297			Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboards <small>(26 24 16 00-0260)</small>		
26 24 16 00-0298	EA		100 Ampere Rating, 12 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,984.57	
26 24 16 00-0299	EA		100 Ampere Rating, 18 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	3,054.02	
26 24 16 00-0300	EA		125 Ampere Rating, 18 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	3,107.48	
26 24 16 00-0301	EA		125 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	3,244.11	
26 24 16 00-0302	EA		125 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	3,654.53	
26 24 16 00-0303	EA		250 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	4,513.26	
26 24 16 00-0304	EA		250 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	4,673.44	
26 24 16 00-0305	EA		250 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	4,881.27	
26 24 16 00-0306	EA		400 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	5,058.42	
26 24 16 00-0307	EA		400 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	5,305.12	
26 24 16 00-0308	EA		400 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	5,536.53	
26 24 16 00-0309			480Y/277 Volt AC, 4 Wire, 3 Phase, Unassembled Panelboards <small>(26 24 16 00-0169)</small> Note: As manufactured by Square D or equal.		

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0310			Main Lugs, NEMA 1, 480Y/277 Volt AC, 4 Wire, 3 Phase, Unassembled Panelboards <small>(26 24 16 00-0309)</small>		
26 24 16 00-0311	EA		125 Ampere Rating, 12 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	1,143.68	
26 24 16 00-0312	EA		125 Ampere Rating, 18 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	1,259.67	
26 24 16 00-0313	EA		125 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	1,461.88	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	122.41	
26 24 16 00-0314	EA		250 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	1,755.89	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	122.41	
26 24 16 00-0315	EA		250 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	1,958.55	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	209.06	
26 24 16 00-0316	EA		250 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	2,132.11	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	267.20	
26 24 16 00-0317	EA		400 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	2,172.83	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	122.41	
26 24 16 00-0318	EA		400 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	2,313.62	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	209.06	
26 24 16 00-0319	EA		400 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	2,507.81	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	267.20	
26 24 16 00-0320	EA		600 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	2,720.10	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	122.41	
26 24 16 00-0321	EA		600 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	2,910.59	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	209.06	
26 24 16 00-0322	EA		600 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	3,176.07	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	267.20	
26 24 16 00-0323			Main Breaker, NEMA 1, 480Y/277 Volt AC, 4 Wire, 3 Phase, Unassembled Panelboards <small>(26 24 16 00-0309)</small>		
26 24 16 00-0324	EA		100 Ampere Rating, 12 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	2,432.03	
26 24 16 00-0325	EA		100 Ampere Rating, 18 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	2,502.11	
26 24 16 00-0326	EA		100 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	2,714.52	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	122.41	
26 24 16 00-0327	EA		125 Ampere Rating, 18 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	2,782.33	
26 24 16 00-0328	EA		125 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	2,925.11	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	122.41	
26 24 16 00-0329	EA		125 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	3,225.60	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	209.06	
26 24 16 00-0330	EA		250 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	4,149.17	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	122.41	
26 24 16 00-0331	EA		250 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	4,330.33	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	209.06	
26 24 16 00-0332	EA		250 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	4,562.67	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	267.20	
26 24 16 00-0333	EA		400 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	4,810.38	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	122.41	
26 24 16 00-0334	EA		400 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	5,076.57	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	209.06	
26 24 16 00-0335	EA		400 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	5,310.49	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	267.20	
26 24 16 00-0336			Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 4 Wire, 3 Phase, Unassembled Panelboards <small>(26 24 16 00-0309)</small>		
26 24 16 00-0337	EA		125 Ampere Rating, 12 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard	1,780.35	
26 24 16 00-0338	EA		125 Ampere Rating, 18 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard	1,896.34	
26 24 16 00-0339	EA		125 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard	2,089.14	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	26 24 16 00-0340	EA		250 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard	2,377.50	
	26 24 16 00-0341	EA		250 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard	2,689.41	
	26 24 16 00-0342	EA		250 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard	2,850.41	
	26 24 16 00-0343	EA		400 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard	2,893.02	
	26 24 16 00-0344	EA		400 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard	3,013.09	
	26 24 16 00-0345	EA		400 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard	3,180.28	
	26 24 16 00-0346	EA		600 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard	3,455.35	
	26 24 16 00-0347	EA		600 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard	3,630.14	
	26 24 16 00-0348	EA		600 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard	3,861.72	
26 24 16 00-0349				Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 4 Wire, 3 Phase, Unassembled Panelboards <small>(26 24 16 00-0309)</small>		
	26 24 16 00-0350	EA		100 Ampere Rating, 12 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard	3,053.64	
	26 24 16 00-0351	EA		100 Ampere Rating, 18 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard	3,123.72	
	26 24 16 00-0352	EA		100 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard	3,445.37	
	26 24 16 00-0353	EA		125 Ampere Rating, 18 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard	3,409.59	
	26 24 16 00-0354	EA		125 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard	3,546.71	
	26 24 16 00-0355	EA		125 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard	3,956.46	
	26 24 16 00-0356	EA		250 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard	4,867.47	
	26 24 16 00-0357	EA		250 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard	5,029.79	
	26 24 16 00-0358	EA		250 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard	5,235.14	
	26 24 16 00-0359	EA		400 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard	5,482.84	
	26 24 16 00-0360	EA		400 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard	5,731.46	
	26 24 16 00-0361	EA		400 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard	5,962.24	
26 24 16 00-0362				600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboards <small>(26 24 16 00-0169)</small>		
				Note: Square D I-Line or equal.		
26 24 16 00-0363				Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboards <small>(26 24 16 00-0362)</small>		
	26 24 16 00-0364	EA		400 Ampere Rating, 27" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	2,089.49	457.50
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	274.50	
	26 24 16 00-0365	EA		400 Ampere Rating, 45" Breaker Mounted Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	2,404.17	457.36
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	274.43	
	26 24 16 00-0366	EA		400 Ampere Rating, 63" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	2,641.18	457.36
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	274.43	
	26 24 16 00-0367	EA		600 Ampere Rating, 27" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	3,137.73	751.11
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	450.67	
	26 24 16 00-0368	EA		600 Ampere Rating, 45" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	3,321.17	751.11
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	450.67	
	26 24 16 00-0369	EA		600 Ampere Rating, 63" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	3,522.46	751.11
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	450.67	
	26 24 16 00-0370	EA		800 Ampere Rating, 27" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	3,907.52	998.48
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	599.06	
	26 24 16 00-0371	EA		800 Ampere Rating, 45" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	4,085.70	1,001.43
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	600.89	
	26 24 16 00-0372	EA		800 Ampere Rating, 63" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	4,155.89	998.48
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	599.06	
	26 24 16 00-0373	EA		800 Ampere Rating, 99" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	4,737.86	998.48
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	599.06	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0374 EA 1,200 Ampere Rating, 27" Breaker Mounting Space, 600 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	6,284.40	1,502.21
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	901.34	
26 24 16 00-0375 EA 1,200 Ampere Rating, 45" Breaker Mounting Space, 600 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	6,680.49	1,502.21
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	901.34	
26 24 16 00-0376 EA 1,200 Ampere Rating, 63" Breaker Mounting Space, 600 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	7,004.34	1,502.21
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	901.34	
26 24 16 00-0377 EA 1,200 Ampere Rating, 99" Breaker Mounting Space, 600 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	7,399.63	1,502.21
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	901.34	
26 24 16 00-0378 Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboards <small>(26 24 16 00-0362)</small>		
26 24 16 00-0379 EA 225 Ampere Rating, 36" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	3,810.88	467.20
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	280.30	
26 24 16 00-0380 EA 400 Ampere Rating, 27" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	4,957.44	529.88
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	317.95	
26 24 16 00-0381 EA 400 Ampere Rating, 45" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	5,186.33	529.88
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	317.95	
26 24 16 00-0382 EA 400 Ampere Rating, 81" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	5,860.02	529.88
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	317.95	
26 24 16 00-0383 EA 600 Ampere Rating, 36" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	7,739.60	868.61
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	521.20	
26 24 16 00-0384 EA 600 Ampere Rating, 72" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	8,119.21	871.00
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	522.58	
26 24 16 00-0385 EA 600 Ampere Rating, 72" Breaker Mounting Space, 600 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	8,429.51	868.61
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	521.20	
26 24 16 00-0386 EA 800 Ampere Rating, 36" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	9,819.95	1,161.24
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	696.77	
26 24 16 00-0387 EA 800 Ampere Rating, 72" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	10,265.47	1,157.16
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	694.31	
26 24 16 00-0388 EA 800 Ampere Rating, 72" Breaker Mounting Space, 600 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	10,711.89	1,157.16
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	694.31	
26 24 16 00-0389 Residential Lighting And Power Panelboards <small>(26 24 16 00-0001)</small>		
See CSI section 26 28 16 13-0001 for circuit breakers.		
26 24 16 00-0390 Residential Type Unassembled Load Center <small>(26 24 16 00-0389)</small>		
Note: Interior box and cover, includes ground bar kit.		
26 24 16 00-0391 Main Lug Load Center, Single Phase, 3 Wire, 120/240 Volt <small>(26 24 16 00-0390)</small>		
26 24 16 00-0392 EA 30 Ampere Rating, 2 Circuit, Main Lug Load Center, 3 Wire, 120/240 Volt, Single Phase, Unassembled Panelboard.....	193.52	76.91
26 24 16 00-0393 EA 70 Ampere Rating, 4 Circuit, Main Lug Load Center, 3 Wire, 120/240 Volt, Single Phase, Unassembled Panelboard.....	674.28	307.65
26 24 16 00-0394 EA 100 Ampere Rating, 8 Circuit, Main Lug Load Center, 3 Wire, 120/240 Volt, Single Phase, Unassembled Panelboard.....	1,006.03	439.16
26 24 16 00-0395 EA 125 Ampere Rating, 24 Circuit, Main Lug Load Center, 3 Wire, 120/240 Volt, Single Phase, Unassembled Panelboard.....	2,142.43	923.08
26 24 16 00-0396 EA 150 Ampere Rating, 30 Circuit, Main Lug Load Center, 3 Wire, 120/240 Volt, Single Phase, Unassembled Panelboard.....	2,338.12	999.84
26 24 16 00-0397 Main Lug Load Center, 3 Phase, 4 Wire, 208 Y/120 Volt AC <small>(26 24 16 00-0390)</small>		
Note: 3 Phase, 4 wire, 240/120 Volt AC Delta; 3 phase, 3 wire, 240 Volt AC Delta.		
26 24 16 00-0398 EA 60 Ampere Rating, 3 Circuit, Main Lug Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Unassembled Panelboard.....	258.11	84.60
26 24 16 00-0399 EA 125 Ampere Rating, 3 Circuit, Main Lug Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Unassembled Panelboard.....	431.99	92.29
26 24 16 00-0400 Main Lug Load Center, Single Phase, 3 Wire, 120/240 Volt, Rainproof <small>(26 24 16 00-0390)</small>		
26 24 16 00-0401 EA 40 Ampere Rating, 2 Circuit, Main Lug Load Center, 3 Wire 120/240 Volt, 1 Phase, Rainproof, Unassembled Panelboard.....	261.75	84.60
26 24 16 00-0402 EA 70 Ampere Rating, 4 Circuit, Main Lug Load Center, 3 Wire 120/240 Volt, 1 Phase, Rainproof, Unassembled Panelboard.....	290.89	92.29
26 24 16 00-0403 EA 100 Ampere Rating, 8 Circuit, Main Lug Load Center, 3 Wire 120/240 Volt, 1 Phase, Rainproof, Unassembled Panelboard.....	1,078.80	439.16
26 24 16 00-0404 EA 150 Ampere Rating, 30 Circuit, Main Lug Load Center, 3 Wire 120/240 Volt, 1 Phase, Rainproof, Unassembled Panelboard.....	2,448.85	999.84



Electrical	26	26
Low-Voltage Electrical Distribution	26 20	
Switchboards and Panelboards	26 24	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0405 Main Lug Load Center, 3 Phase, 4 Wire, 208 Y/120 Volt AC <small>(26 24 16 00-0390)</small>		
<small>Note: 3 Phase, 4 wire, 240/120 Volt AC Delta; 3 phase, 3 wire, 240 Volt AC Delta, Rainproof.</small>		
26 24 16 00-0406 EA 60 Ampere Rating, 3 Circuit, Main Lug Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Rainproof, Unassembled Panelboard.....	313.47	84.60
26 24 16 00-0407 EA 125 Ampere Rating, 20 Circuit, Main Lug Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Rainproof, Unassembled Panelboard.....	2,345.06	923.08
26 24 16 00-0408 Main Breaker Load Center, Single Phase, 3 Wire, 120/240 Volt <small>(26 24 16 00-0390)</small>		
26 24 16 00-0409 EA 125 Ampere Rating, 24 Circuit, Main Breaker Load Center, 3 Wire, 120/240 Volt, Single Phase, Unassembled Panelboard	2,487.27	923.08
26 24 16 00-0410 EA 150 Ampere Rating, 30 Circuit, Main Breaker Load Center, 3 Wire, 120/240 Volt, Single Phase, Unassembled Panelboard	2,698.78	999.84
26 24 16 00-0411 EA 300 Ampere Rating, 42 Circuit, Main Breaker Load Center, 3 Wire, 120/240 Volt, Single Phase, Unassembled Panelboard	8,477.79	1,538.21
26 24 16 00-0412 Main Breaker Load Center, 3 Phase, 4 Wire, 208 Y/120 Volt AC <small>(26 24 16 00-0390)</small>		
<small>Note: 3 Phase, 4 wire, 240/120 Volt AC Delta; 3 phase, 3 wire, 240 V Delta.</small>		
26 24 16 00-0413 EA 125 Ampere Rating, 30 Circuit, Main Breaker Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Unassembled Panelboard	3,406.01	923.08
26 24 16 00-0414 EA 150 Ampere Rating, 40 Circuit, Main Breaker Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Unassembled Panelboard	3,711.63	999.84
26 24 16 00-0415 EA 300 Ampere Rating, 42 Circuit, Main Breaker Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Unassembled Panelboard	9,250.84	1,538.21
26 24 16 00-0416 Main Breaker Load Center, Single Phase, 3 Wire, 120/240 Volt, Rainproof <small>(26 24 16 00-0390)</small>		
26 24 16 00-0417 EA 125 Ampere Rating, 24 Circuit, Main Breaker Load Center, 3 Wire 120/240 Volt, 1 Phase, Rainproof, Unassembled Panelboard	2,590.09	923.08
26 24 16 00-0418 EA 150 Ampere Rating, 30 Circuit, Main Breaker Load Center, 3 Wire 120/240 Volt, 1 Phase, Rainproof, Unassembled Panelboard	2,874.36	999.84
26 24 16 00-0419 Main Breaker Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC <small>(26 24 16 00-0390)</small>		
<small>Note: 3 Phase, 4 wire, 240/120 Volt AC Delta; 3 phase, 3 wire, 240 Volt AC Delta, Rainproof.</small>		
26 24 16 00-0420 EA 125 Ampere Rating, 30 Circuit, Main Breaker Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Rainproof, Unassembled Panelboard.....	3,576.53	923.08
26 24 16 00-0421 EA 155 Ampere Rating, 30 Circuit, Main Breaker Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Rainproof, Unassembled Panelboard.....	3,730.14	999.84
26 24 16 00-0422 Residential Type Assembled Load Center <small>(26 24 16 00-0389)</small>		
26 24 16 00-0423 Main Lug Load Center, 3 Wire, 20 Amperes, 120/240 Volt, 1 Phase <small>(26 24 16 00-0422)</small>		
<small>Note: Includes 1 pole plug-in breaker.</small>		
26 24 16 00-0424 EA 100 Ampere Rating, Main Lugs, Indoor 8 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,006.51	439.16
26 24 16 00-0425 EA 100 Ampere Rating, Main Lugs, Indoor 12 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,214.26	512.99
26 24 16 00-0426 EA 100 Ampere Rating, Main Lugs, Rainproof, 8 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,023.91	439.16
26 24 16 00-0427 EA 100 Ampere Rating, Main Lugs, Rainproof, 12 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,219.00	512.99
26 24 16 00-0428 EA 200 Ampere Rating, Main Lugs, Indoor, 8 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,737.70	683.73
26 24 16 00-0429 EA 200 Ampere Rating, Main Lugs, Indoor, 20 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,057.31	820.64
26 24 16 00-0430 EA 200 Ampere Rating, Main Lugs, Indoor, 24 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,356.90	946.77
26 24 16 00-0431 EA 200 Ampere Rating, Main Lugs, Indoor, 30 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,587.69	1,024.91
26 24 16 00-0432 EA 200 Ampere Rating, Main Lugs, Indoor, 42 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	3,875.26	1,538.21
26 24 16 00-0433 EA 200 Ampere Rating, Main Lugs, Rainproof, 16 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,799.39	683.73
26 24 16 00-0434 EA 200 Ampere Rating, Main Lugs, Rainproof, 20 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,115.84	820.64
26 24 16 00-0435 EA 200 Ampere Rating, Main Lugs, Rainproof, 24 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,415.43	946.77
26 24 16 00-0436 EA 200 Ampere Rating, Main Lugs, Rainproof, 30 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,643.05	1,024.91
26 24 16 00-0437 EA 200 Ampere Rating, Main Lugs, Rainproof, 42 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	4,057.17	1,538.21
26 24 16 00-0438 EA 400 Ampere Rating, Main Lugs, Indoor, 42 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	4,675.82	1,709.11
26 24 16 00-0439 EA 400 Ampere Rating, Main Lugs, Rainproof, 42 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	4,865.64	1,709.11



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0440	Main Lug Load Center, 4 Wire, 20 Amperes, 120/208 Volt <small>(26 24 16 00-0422)</small>	
Note: Includes 1 pole plug-in breaker.		
26 24 16 00-0441 EA 125 Ampere Rating, Main Lugs, Indoor, 12 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,302.84	512.99
26 24 16 00-0442 EA 125 Ampere Rating, Main Lugs, Indoor, 18 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,944.74	769.11
26 24 16 00-0443 EA 125 Ampere Rating, Main Lugs, Rainproof, 12 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,355.04	512.99
26 24 16 00-0444 EA 125 Ampere Rating, Main Lugs, Rainproof, 18 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,992.20	769.11
26 24 16 00-0445 EA 200 Ampere Rating, Main Lugs, Indoor, 24 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,447.06	946.77
26 24 16 00-0446 EA 200 Ampere Rating, Main Lugs, Indoor, 30 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,667.88	1,025.53
26 24 16 00-0447 EA 200 Ampere Rating, Main Lugs, Indoor, 36 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	3,252.85	1,231.04
26 24 16 00-0448 EA 200 Ampere Rating, Main Lugs, Indoor, 42 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	3,938.53	1,538.21
26 24 16 00-0449 EA 200 Ampere Rating, Main Lugs, Rainproof, 24 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,502.43	946.77
26 24 16 00-0450 EA 200 Ampere Rating, Main Lugs, Rainproof, 30 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,730.05	1,024.91
26 24 16 00-0451 EA 200 Ampere Rating, Main Lugs, Rainproof, 36 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	3,464.83	1,230.11
26 24 16 00-0452 EA 200 Ampere Rating, Main Lugs, Rainproof, 42 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	4,152.08	1,538.21
26 24 16 00-0453 EA 400 Ampere Rating, Main Lugs, Indoor, 42 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	4,723.27	1,709.11
26 24 16 00-0454 EA 400 Ampere Rating, Main Lugs, Rainproof, 42 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	4,913.09	1,709.11
26 24 16 00-0455	Main Breaker Load Center, 3 Wire, 20 Amperes, 120/240 Volt, 1 Phase <small>(26 24 16 00-0422)</small>	
Note: Includes 1 pole plug-in breaker.		
26 24 16 00-0456 EA 125 Ampere Rating, Main Breaker, Indoor, 12 Circuit, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,296.52	512.99
26 24 16 00-0457 EA 125 Ampere Rating, Main Breaker, Indoor, 18 Circuit, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,922.60	769.11
26 24 16 00-0458 EA 200 Ampere Rating, Main Breaker, Indoor, 20 Circuit, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,187.03	820.64
26 24 16 00-0459 EA 200 Ampere Rating, Main Breaker, Indoor, 24 Circuit, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,511.27	947.23
26 24 16 00-0460 EA 200 Ampere Rating, Main Breaker, Indoor, 30 Circuit, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,754.88	1,025.53
26 24 16 00-0461 EA 200 Ampere Rating, Main Breaker, Indoor, 40 Circuit, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	3,652.56	1,367.48
26 24 16 00-0462 EA 200 Ampere Rating, Main Breaker, Rainproof, 20 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,202.84	820.64
26 24 16 00-0463 EA 200 Ampere Rating, Main Breaker, Rainproof, 24 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,541.98	946.77
26 24 16 00-0464 EA 200 Ampere Rating, Main Breaker, Rainproof, 30 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,761.69	1,024.91
26 24 16 00-0465 EA 200 Ampere Rating, Main Breaker, Rainproof, 40 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	3,565.56	1,367.48
26 24 16 00-0466 EA 400 Ampere Rating, Main Breaker, Indoor, 42 Circuit, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	6,305.11	1,709.11
26 24 16 00-0467 EA 400 Ampere Rating, Main Breaker, Rainproof, 42 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	6,621.48	1,709.11
26 24 16 00-0468	Main Breaker Load Center, 4 Wire, 20 Amperes, 120/208 Volt <small>(26 24 16 00-0422)</small>	
Note: Includes 1 pole plug-in breaker.		
26 24 16 00-0469 EA 200 Ampere Rating, Main Breaker, Indoor, 30 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	3,197.80	1,025.53
26 24 16 00-0470 EA 200 Ampere Rating, Main Breaker, Indoor, 42 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	4,444.72	1,538.21
26 24 16 00-0471 EA 200 Ampere Rating, Main Breaker, Rainproof, 30 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	3,291.61	1,024.91
26 24 16 00-0472 EA 200 Ampere Rating, Main Breaker, Rainproof, 42 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	4,539.63	1,538.21
26 24 16 00-0473	Panel Mounted Accessories And Fuseholders <small>(26 24 16 00-0001)</small>	
26 24 16 00-0474	Midget Finger-Safe Fuse Holders <small>(26 24 16 00-0473)</small>	
Note: 30 Amp capacity. Excludes fuse.		
26 24 16 00-0475 EA 1 Pole Midget Finger-Safe Fuse Holder	90.72	27.69
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	18.46	
26 24 16 00-0476 EA 1 Pole With Indicator Midget Finger-Safe Fuse Holder	104.55	27.69
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	18.46	
26 24 16 00-0477 EA 2 Pole Midget Finger-Safe Fuse Holder	144.87	41.53
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	27.69	



	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0478	EA 2 Pole With Indicators Midget Finger-Safe Fuse Holder <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	.....	180.96 27.69	41.53
26 24 16 00-0479	EA 3 Pole Midget Finger-Safe Fuse Holder <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	.....	210.20 36.92	55.38
26 24 16 00-0480	EA 3 Pole With Indicators Midget Finger-Safe Fuse Holder <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	.....	258.14 36.92	55.38
26 24 16 00-0481	EA 3 Pole With 4th Neutral Pole Midget Finger-Safe Fuse Holder Note: With indicators. <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	.....	298.24 36.92	55.38
26 24 16 00-0482	EA 3 Pole With 4th Neutral Pole Midget Finger-Safe Fuse Holder <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	.....	245.08 36.92	55.38
26 24 16 00-0483	EA 4 Pole Midget Finger-Safe Fuse Holder <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	.....	264.50 46.15	69.22
26 24 16 00-0484	EA 4 Pole With Indicator Midget Finger-Safe Fuse Holder <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	.....	317.14 46.15	69.22
26 24 16 00-0485	EA 12 To 24 Volt DC Midget Finger-Safe Fuse Holder Note: With indicator. <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	.....	104.59 18.46	27.69
26 24 16 00-0486	EA 20 To 24 Volt DC Midget Finger-Safe Fuse Holder Note: With indicator. <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	.....	111.94 18.46	27.69
26 24 16 00-0487	EA 35 To 48 Volt DC Midget Finger-Safe Fuse Holder Note: With indicator. <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	.....	105.95 18.46	27.69
26 24 16 00-0488 Removal And Reinstallation Of Panelboards (26 24 16 00-0001)				
Note: Includes storage, cleaning and supply materials.				
26 24 16 00-0489	EA Removal And Reinstallation Of Up To 42 Circuit Capacity Panelboards With Breakers Note: Includes removal and reinstallation of main wiring to panelboard. <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	.....	1,929.15 576.83	
26 24 16 00-0490	EA Removal And Reinstallation Of Breaker, 1-2-3 Pole, Any Amperage <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	.....	101.82 29.99	
26 24 16 00-0491	EA Panelboard Filler Plate, Fits 1" Opening <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	.....	6.65 1.44	
26 24 19 Motor-Control Centers (26 24)				
26 24 19 00-0001 Combination Starters With Molded Case Circuit Breakers (26 24 19)				
Note: Includes NEMA I enclosure of indoor installation, vertical free standing floor mounted sections (90" high x 20" wide x 16" o 20" Deep), fully factory assembled and wired internally.				
26 24 19 00-0002 230 Volt Combination With Molded Case Circuit, Full Volt (26 24 19 00-0001)				
Note: 1-Speed non-reversing.				
26 24 19 00-0003	EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 7-1/2 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	.....	2,466.09 84.33	140.55
26 24 19 00-0004	EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 15 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	.....	2,912.12 88.55	147.58
26 24 19 00-0005	EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 30 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	.....	4,304.36 92.76	154.61
26 24 19 00-0006	EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 50 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	.....	7,759.20 109.63	182.72
26 24 19 00-0007	EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 100 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	.....	15,556.60 126.50	210.82
26 24 19 00-0008	EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 200 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	.....	26,139.84 168.66	281.10
26 24 19 00-0009 480 Volt Combination With Molded Case Circuit, Full Volt (26 24 19 00-0001)				
Note: 1-Speed non-reversing.				
26 24 19 00-0010	EA 480 Volt, Full Volt, 1 Speed, Non-Reversing, 10 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	.....	2,466.09 84.33	140.55
26 24 19 00-0011	EA 480 Volt, Full Volt, 1 Speed, Non-Reversing, 25 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	.....	2,912.12 88.55	147.58
26 24 19 00-0012	EA 480 Volt, Full Volt, 1 Speed, Non-Reversing, 50 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	.....	4,304.36 92.76	154.61
26 24 19 00-0013	EA 480 Volt, Full Volt, 1 Speed, Non-Reversing, 100 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	.....	7,759.20 109.63	182.72
26 24 19 00-0014	EA 480 Volt, Full Volt, 1 Speed, Non-Reversing, 200 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	.....	15,556.60 126.50	210.82
26 24 19 00-0015	EA 480 Volt, Full Volt, 1 Speed, Non-Reversing, 400 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	.....	26,139.84 168.66	281.10
26 24 19 00-0016 230 Volt Combination With Molded Case Circuit, Full Volt (26 24 19 00-0001)				
Note: 1-Speed reversing.				
26 24 19 00-0017	EA 230 Volt, Full Volt, 1 Speed, Reversing, 7-1/2 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	.....	3,544.87 84.33	140.55
26 24 19 00-0018	EA 230 Volt, Full Volt, 1 Speed, Reversing, 15 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	.....	4,706.28 88.55	147.58
26 24 19 00-0019	EA 230 Volt, Full Volt, 1 Speed, Reversing, 30 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	.....	6,720.19 92.76	154.61
26 24 19 00-0020	EA 230 Volt, Full Volt, 1 Speed, Reversing, 50 HP Combination With Molded Case Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	.....	11,717.78 109.63	182.72

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0021 EA 230 Volt, Full Volt, 1 Speed, Reversing, 100 HP Combination With Molded Case Circuit	22,996.07	210.82
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	126.50	
26 24 19 00-0022 EA 230 Volt, Full Volt, 1 Speed, Reversing, 200 HP Combination With Molded Case Circuit	39,592.61	281.10
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	168.66	
26 24 19 00-0023 480 Volt Combination With Molded Case Circuit, Full Volt <small>(26 24 19 00-0001)</small>		
Note: 1-Speed reversing.		
26 24 19 00-0024 EA 480 Volt, Full Volt, 1 Speed, Reversing, 10 HP Combination With Molded Case Circuit	3,544.87	140.55
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	84.33	
26 24 19 00-0025 EA 480 Volt, Full Volt, 1 Speed, Reversing, 25 HP Combination With Molded Case Circuit	4,706.28	147.58
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	88.55	
26 24 19 00-0026 EA 480 Volt, Full Volt, 1 Speed, Reversing, 50 HP Combination With Molded Case Circuit	6,720.19	154.61
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	92.76	
26 24 19 00-0027 EA 480 Volt, Full Volt, 1 Speed, Reversing, 100 HP Combination With Molded Case Circuit	11,717.78	182.72
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	109.63	
26 24 19 00-0028 EA 480 Volt, Full Volt, 1 Speed, Reversing, 200 HP Combination With Molded Case Circuit	22,996.07	210.82
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	126.50	
26 24 19 00-0029 EA 480 Volt, Full Volt, 1 Speed, Reversing, 400 HP Combination With Molded Case Circuit	39,592.61	281.10
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	168.66	
26 24 19 00-0030 230 Volt Combination With Molded Case Circuit, Full Volt <small>(26 24 19 00-0001)</small>		
Note: 2-Speed non-reversing, 2 wind.		
26 24 19 00-0031 EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 7-1/2 HP Combination With Molded Case Circuit	4,337.48	224.88
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	134.93	
26 24 19 00-0032 EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 15 HP Combination With Molded Case Circuit	5,933.49	238.94
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	143.36	
26 24 19 00-0033 EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 30 HP Combination With Molded Case Circuit	8,690.53	253.00
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	151.79	
26 24 19 00-0034 EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 50 HP Combination With Molded Case Circuit	15,455.21	288.13
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	172.88	
26 24 19 00-0035 EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 100 HP Combination With Molded Case Circuit	25,539.21	337.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	202.40	
26 24 19 00-0036 480 Volt Combination With Molded Case Circuit, Full Volt <small>(26 24 19 00-0001)</small>		
Note: 2-Speed non-reversing, 2 wind.		
26 24 19 00-0037 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 10 HP Combination With Molded Case Circuit	4,337.48	224.88
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	134.93	
26 24 19 00-0038 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 25 HP Combination With Molded Case Circuit	5,933.49	238.94
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	143.36	
26 24 19 00-0039 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 50 HP Combination With Molded Case Circuit	8,690.53	253.00
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	151.79	
26 24 19 00-0040 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 100 HP Combination With Molded Case Circuit	15,455.21	288.13
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	172.88	
26 24 19 00-0041 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 200 HP Combination With Molded Case Circuit	25,539.21	337.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	202.40	
26 24 19 00-0042 230 Volt Combination With Molded Case Circuit, Full Volt <small>(26 24 19 00-0001)</small>		
Note: 2-Speed non-reversing, 2 wind.		
26 24 19 00-0043 EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 7-1/2 HP Combination With Molded Case Circuit	4,955.06	140.55
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	84.33	
26 24 19 00-0044 EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 15 HP Combination With Molded Case Circuit	7,346.09	147.58
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	88.55	
26 24 19 00-0045 EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 30 HP Combination With Molded Case Circuit	10,034.24	154.61
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	92.76	
26 24 19 00-0046 EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 50 HP Combination With Molded Case Circuit	18,800.71	182.72
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	109.63	
26 24 19 00-0047 EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 100 HP Combination With Molded Case Circuit	32,524.55	210.82
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	126.50	
26 24 19 00-0048 480 Volt Combination With Molded Case Circuit, Full Volt <small>(26 24 19 00-0001)</small>		
Note: 2-Speed non-reversing, 1 wind.		
26 24 19 00-0049 EA 480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 10 HP Combination With Molded Case Circuit	4,955.06	140.55
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	84.33	
26 24 19 00-0050 EA 480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 25 HP Combination With Molded Case Circuit	7,346.09	147.58
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	88.55	
26 24 19 00-0051 EA 480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 50 HP Combination With Molded Case Circuit	10,034.24	154.61
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	92.76	
26 24 19 00-0052 EA 480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 100 HP Combination With Molded Case Circuit	18,800.71	182.72
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	109.63	
26 24 19 00-0053 EA 480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 200 HP Combination With Molded Case Circuit	32,524.55	210.82
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	126.50	
26 24 19 00-0054 230 Volt Combination With Molded Case Circuit <small>(26 24 19 00-0001)</small>		
Note: Reducing volt, auto-transformer.		
26 24 19 00-0055 EA 230 Volt, Reduced Volt, Auto Transformer, 15 HP Combination With Molded Case Circuit	7,300.38	147.58
26 24 19 00-0056 EA 230 Volt, Reduced Volt, Auto Transformer, 30 HP Combination With Molded Case Circuit	11,147.65	161.63
26 24 19 00-0057 EA 230 Volt, Reduced Volt, Auto Transformer, 50 HP Combination With Molded Case Circuit	18,748.14	182.72



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0058	EA		230 Volt, Reduced Volt, Auto Transformer, 100 HP Combination With Molded Case Circuit.....	28,968.23	210.82
26 24 19 00-0059	EA		230 Volt, Reduced Volt, Auto Transformer, 200 HP Combination With Molded Case Circuit.....	49,521.06	281.10
26 24 19 00-0060			480 Volt Combination With Molded Case Circuit <small>(26 24 19 00-0001)</small>		
Note: Reducing volt, auto-transformer.					
26 24 19 00-0061	EA		480 Volt, Reduced Volt, Auto Transformer, 25 HP Combination With Molded Case Circuit.....	7,300.38	147.58
26 24 19 00-0062	EA		480 Volt, Reduced Volt, Auto Transformer, 50 HP Combination With Molded Case Circuit.....	11,147.65	161.63
26 24 19 00-0063	EA		480 Volt, Reduced Volt, Auto Transformer, 100 HP Combination With Molded Case Circuit.....	18,748.14	182.72
26 24 19 00-0064	EA		480 Volt, Reduced Volt, Auto Transformer, 200 HP Combination With Molded Case Circuit.....	28,968.23	210.82
26 24 19 00-0065	EA		480 Volt, Reduced Volt, Auto Transformer, 400 HP Combination With Molded Case Circuit.....	49,521.06	281.10
26 24 19 00-0066			230 Volt Combination With Molded Case Circuit <small>(26 24 19 00-0001)</small>		
Note: Reducing volt, part winding.					
26 24 19 00-0067	EA		230 Volt, Reduced Volt, Part Winding Starters, 10 HP Combination With Molded Case Circuit.....	5,043.71	224.88
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>134.93</i>	
26 24 19 00-0068	EA		230 Volt, Reduced Volt, Part Winding Starters, 25 HP Combination With Molded Case Circuit.....	6,501.31	260.02
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>156.01</i>	
26 24 19 00-0069	EA		230 Volt, Reduced Volt, Part Winding Starters, 50 HP Combination With Molded Case Circuit.....	11,352.64	288.13
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>172.88</i>	
26 24 19 00-0070	EA		230 Volt, Reduced Volt, Part Winding Starters, 75 HP Combination With Molded Case Circuit.....	19,284.31	351.37
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>210.83</i>	
26 24 19 00-0071	EA		230 Volt, Reduced Volt, Part Winding Starters, 150 HP Combination With Molded Case Circuit.....	26,477.19	449.76
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>269.87</i>	
26 24 19 00-0072			480 Volt Combination With Molded Case Circuit <small>(26 24 19 00-0001)</small>		
Note: Reducing volt, part winding.					
26 24 19 00-0073	EA		480 Volt, Reduced Volt, Part Winding Starters, 15 HP Combination With Molded Case Circuit.....	5,043.71	224.88
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>134.93</i>	
26 24 19 00-0074	EA		480 Volt, Reduced Volt, Part Winding Starters, 40 HP Combination With Molded Case Circuit.....	6,501.31	260.02
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>156.01</i>	
26 24 19 00-0075	EA		480 Volt, Reduced Volt, Part Winding Starters, 75 HP Combination With Molded Case Circuit.....	11,352.64	288.13
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>172.88</i>	
26 24 19 00-0076	EA		480 Volt, Reduced Volt, Part Winding Starters, 150 HP Combination With Molded Case Circuit.....	19,284.31	351.37
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>210.83</i>	
26 24 19 00-0077	EA		480 Volt, Reduced Volt, Part Winding Starters, 350 HP Combination With Molded Case Circuit.....	26,477.19	449.76
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>269.87</i>	
26 24 19 00-0078			230 Volt Combination With Molded Case Circuit <small>(26 24 19 00-0001)</small>		
Note: Reducing volt, energy saver.					
26 24 19 00-0079	EA		230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 7-1/2 HP Combination With Molded Case Circuit.....	20,492.02	182.72
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>109.63</i>	
26 24 19 00-0080	EA		230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 15 HP Combination With Molded Case Circuit.....	21,753.40	224.88
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>134.93</i>	
26 24 19 00-0081	EA		230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 30 HP Combination With Molded Case Circuit.....	24,026.94	260.02
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>156.01</i>	
26 24 19 00-0082	EA		230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 50 HP Combination With Molded Case Circuit.....	36,329.17	288.13
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>172.88</i>	
26 24 19 00-0083	EA		230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 100 HP Combination With Molded Case Circuit.....	49,526.76	351.37
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>210.83</i>	
26 24 19 00-0084	EA		230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 200 HP Combination With Molded Case Circuit.....	67,198.90	449.76
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>269.87</i>	
26 24 19 00-0085			480 Volt Combination With Molded Case Circuit <small>(26 24 19 00-0001)</small>		
Note: Reducing volt, energy saver.					
26 24 19 00-0086	EA		480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 10 HP Combination With Molded Case Circuit.....	20,492.02	182.72
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>109.63</i>	
26 24 19 00-0087	EA		480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 25 HP Combination With Molded Case Circuit.....	21,753.40	224.88
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>134.93</i>	
26 24 19 00-0088	EA		480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 50 HP Combination With Molded Case Circuit.....	24,026.94	260.02
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>156.01</i>	
26 24 19 00-0089	EA		480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 100 HP Combination With Molded Case Circuit.....	36,329.17	288.13
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>172.88</i>	
26 24 19 00-0090	EA		480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 200 HP Combination With Molded Case Circuit.....	49,526.76	351.37
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>210.83</i>	
26 24 19 00-0091	EA		480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 400 HP Combination With Molded Case Circuit.....	67,198.90	449.76
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>269.87</i>	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

26 24 19 00-0092	Combination Starters With Current Limiting Circuit Breakers (26 24 19) Note: Includes NEMA I enclosure of indoor installation, vertical free standing floor mounted sections (90" high x 20" wide x 16" to 20" deep), fully factory assembled and wired internally.		
26 24 19 00-0093	230 Volt Combination Starters With Current Limiting Circuit (26 24 19 00-0092) Note: Full volt, 1-speed non-reversing.		
26 24 19 00-0094	EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 7-1/2 HP Combination Starters With Current Limiting Circuit.....	3,277.46	140.55
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	84.33	
26 24 19 00-0095	EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 15 HP Combination Starters With Current Limiting Circuit.....	3,723.49	147.58
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	88.55	
26 24 19 00-0096	EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 30 HP Combination Starters With Current Limiting Circuit.....	5,723.69	154.61
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	92.76	
26 24 19 00-0097	EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 50 HP Combination Starters With Current Limiting Circuit.....	10,499.58	182.72
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	109.63	
26 24 19 00-0098	EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 100 HP Combination Starters With Current Limiting Circuit.....	18,742.66	210.82
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	126.50	
26 24 19 00-0099	EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 200 HP Combination Starters With Current Limiting Circuit.....	30,521.25	281.10
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	168.66	
26 24 19 00-0100	480 Volt Combination Starters With Current Limiting Circuit (26 24 19 00-0092) Note: Full volt, 1-speed non-reversing.		
26 24 19 00-0101	EA 480 Volt, Full Volt, 1 Speed, Non-Reversing, 10 HP Combination Starters With Current Limiting Circuit.....	3,277.46	140.55
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	84.33	
26 24 19 00-0102	EA 480 Volt, Full Volt, 1 Speed, Non-Reversing, 25 HP Combination Starters With Current Limiting Circuit.....	3,723.49	147.58
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	88.55	
26 24 19 00-0103	EA 480 Volt, Full Volt, 1 Speed, Non-Reversing, 50 HP Combination Starters With Current Limiting Circuit.....	5,723.69	154.61
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	92.76	
26 24 19 00-0104	EA 480 Volt, Full Volt, 1 Speed, Non-Reversing, 100 HP Combination Starters With Current Limiting Circuit.....	10,499.58	182.72
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	109.63	
26 24 19 00-0105	EA 480 Volt, Full Volt, 1 Speed, Non-Reversing, 200 HP Combination Starters With Current Limiting Circuit.....	18,742.66	210.82
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	126.50	
26 24 19 00-0106	EA 480 Volt, Full Volt, 1 Speed, Non-Reversing, 400 HP Combination Starters With Current Limiting Circuit.....	30,521.25	281.10
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	168.66	
26 24 19 00-0107	230 Volt Combination Starters With Current Limiting Circuit (26 24 19 00-0092) Note: Full volt, 1-speed reversing.		
26 24 19 00-0108	EA 230 Volt, Full Volt, 1 Speed, Reversing, 7-1/2 HP Combination Starters With Current Limiting Circuit	4,349.39	140.55
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	84.33	
26 24 19 00-0109	EA 230 Volt, Full Volt, 1 Speed, Reversing, 15 HP Combination Starters With Current Limiting Circuit	5,501.65	147.58
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	88.55	
26 24 19 00-0110	EA 230 Volt, Full Volt, 1 Speed, Reversing, 30 HP Combination Starters With Current Limiting Circuit	8,107.52	154.61
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	92.76	
26 24 19 00-0111	EA 230 Volt, Full Volt, 1 Speed, Reversing, 50 HP Combination Starters With Current Limiting Circuit	14,421.59	182.72
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	109.63	
26 24 19 00-0112	EA 230 Volt, Full Volt, 1 Speed, Reversing, 100 HP Combination Starters With Current Limiting Circuit	26,118.14	210.82
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	126.50	
26 24 19 00-0113	480 Volt Combination Starters With Current Limiting Circuit (26 24 19 00-0092) Note: Full volt, 1-speed reversing.		
26 24 19 00-0114	EA 480 Volt, Full Volt, 1 Speed, Reversing, 10 HP Combination Starters With Current Limiting Circuit	4,349.39	140.55
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	84.33	
26 24 19 00-0115	EA 480 Volt, Full Volt, 1 Speed, Reversing, 25 HP Combination Starters With Current Limiting Circuit	5,501.65	147.58
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	88.55	
26 24 19 00-0116	EA 480 Volt, Full Volt, 1 Speed, Reversing, 50 HP Combination Starters With Current Limiting Circuit	8,107.52	154.61
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	92.76	
26 24 19 00-0117	EA 480 Volt, Full Volt, 1 Speed, Reversing, 100 HP Combination Starters With Current Limiting Circuit	14,421.59	182.72
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	109.63	
26 24 19 00-0118	EA 480 Volt, Full Volt, 1 Speed, Reversing, 200 HP Combination Starters With Current Limiting Circuit	26,118.14	210.82
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	126.50	
26 24 19 00-0119	230 Volt Combination Starters With Current Limiting Circuit (26 24 19 00-0092) Note: Full volt, 2-speed non-reversing, 2 wind.		
26 24 19 00-0120	EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 7-1/2 HP Combination Starters With Current Limiting Circuit	5,128.28	224.88
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	134.93	
26 24 19 00-0121	EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 15 HP Combination Starters With Current Limiting Circuit	6,712.86	238.94
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	143.36	
26 24 19 00-0122	EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 30 HP Combination Starters With Current Limiting Circuit	10,055.00	253.00
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	151.79	
26 24 19 00-0123	EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 50 HP Combination Starters With Current Limiting Circuit	18,127.02	288.13
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	172.88	
26 24 19 00-0124	EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 100 HP Combination Starters With Current Limiting Circuit	28,636.13	337.33
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	202.40	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0125			480 Volt Combination Starters With Current Limiting Circuit <small>(26 24 19 00-0092)</small>		
			Note: Full volt, 2-speed non-reversing, 2 wind.		
26 24 19 00-0126	EA		480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 10 HP Combination Starters With Current Limiting Circuit	5,128.28	224.88
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	134.93	
26 24 19 00-0127	EA		480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 25 HP Combination Starters With Current Limiting Circuit	6,712.86	238.94
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	143.36	
26 24 19 00-0128	EA		480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 50 HP Combination Starters With Current Limiting Circuit	10,055.00	253.00
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	151.79	
26 24 19 00-0129	EA		480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 100 HP Combination Starters With Current Limiting Circuit	18,127.02	288.13
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	172.88	
26 24 19 00-0130	EA		480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 200 HP Combination Starters With Current Limiting Circuit	28,636.13	337.33
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	202.40	
26 24 19 00-0131			230 Volt Combination Starters With Current Limiting Circuit <small>(26 24 19 00-0092)</small>		
			Note: Full volt, 2-speed non-reversing, 1 wind.		
26 24 19 00-0132	EA		230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 7-1/2 HP Combination Starters With Current Limiting Circuit	5,886.42	210.82
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	126.50	
26 24 19 00-0133	EA		230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 15 HP Combination Starters With Current Limiting Circuit	8,266.34	224.88
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	134.93	
26 24 19 00-0134	EA		230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 30 HP Combination Starters With Current Limiting Circuit	11,560.52	238.94
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	143.36	
26 24 19 00-0135	EA		230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 50 HP Combination Starters With Current Limiting Circuit	21,623.23	274.08
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	164.44	
26 24 19 00-0136	EA		230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 100 HP Combination Starters With Current Limiting Circuit	35,784.67	323.27
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	193.97	
26 24 19 00-0137			480 Volt Combination Starters With Current Limiting Circuit <small>(26 24 19 00-0092)</small>		
			Note: Full volt, 2-speed non-reversing, 1 wind.		
26 24 19 00-0138	EA		480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 10 HP Combination Starters With Current Limiting Circuit	5,886.42	210.82
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	126.50	
26 24 19 00-0139	EA		480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 25 HP Combination Starters With Current Limiting Circuit	8,266.34	224.88
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	134.93	
26 24 19 00-0140	EA		480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 50 HP Combination Starters With Current Limiting Circuit	11,560.52	238.94
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	143.36	
26 24 19 00-0141	EA		480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 100 HP Combination Starters With Current Limiting Circuit	21,623.23	274.08
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	164.44	
26 24 19 00-0142	EA		480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 200 HP Combination Starters With Current Limiting Circuit	35,784.67	323.27
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	193.97	
26 24 19 00-0143			230 Volt Combination Starters With Current Limiting Circuit <small>(26 24 19 00-0092)</small>		
			Note: Reduced volt, auto-transformer.		
26 24 19 00-0144	EA		230 Volt, Reduced Volt, Auto Transformer, 15 HP Combination Starters With Current Limiting Circuit	8,068.33	147.58
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	88.55	
26 24 19 00-0145	EA		230 Volt, Reduced Volt, Auto Transformer, 30 HP Combination Starters With Current Limiting Circuit	12,957.81	161.63
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	96.98	
26 24 19 00-0146	EA		230 Volt, Reduced Volt, Auto Transformer, 50 HP Combination Starters With Current Limiting Circuit	21,858.78	182.72
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	109.63	
26 24 19 00-0147	EA		230 Volt, Reduced Volt, Auto Transformer, 100 HP Combination Starters With Current Limiting Circuit	33,084.51	210.82
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	126.50	
26 24 19 00-0148	EA		230 Volt, Reduced Volt, Auto Transformer, 200 HP Combination Starters With Current Limiting Circuit	54,405.29	281.10
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	168.66	
26 24 19 00-0149			480 Volt Combination Starters With Current Limiting Circuit <small>(26 24 19 00-0092)</small>		
			Note: Reduced volt, auto-transformer.		
26 24 19 00-0150	EA		480 Volt, Reduced Volt, Auto Transformer, 25 HP Combination Starters With Current Limiting Circuit	8,068.33	147.58
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	88.55	
26 24 19 00-0151	EA		480 Volt, Reduced Volt, Auto Transformer, 50 HP Combination Starters With Current Limiting Circuit	12,957.81	161.63
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	96.98	
26 24 19 00-0152	EA		480 Volt, Reduced Volt, Auto Transformer, 100 HP Combination Starters With Current Limiting Circuit	21,858.78	182.72
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	109.63	
26 24 19 00-0153	EA		480 Volt, Reduced Volt, Auto Transformer, 200 HP Combination Starters With Current Limiting Circuit	33,084.51	210.82
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	126.50	
26 24 19 00-0154	EA		480 Volt, Reduced Volt, Auto Transformer, 400 HP Combination Starters With Current Limiting Circuit	54,405.29	281.10
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	168.66	

26 Electrical
26 20 Low-Voltage Electrical Distribution
26 24 Switchboards and Panelboards



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0155			230 Volt Combination Starters With Current Limiting Circuit <small>(26 24 19 00-0092)</small> Note: Reduced volt, part winding.		
26 24 19 00-0156	EA		230 Volt, Reduced Volt, Part Winding Starters, 10 HP Combination Starters With Current Limiting Circuit 5,834.51	224.88	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 134.93		
26 24 19 00-0157	EA		230 Volt, Reduced Volt, Part Winding Starters, 25 HP Combination Starters With Current Limiting Circuit 7,276.12	260.02	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 156.01		
26 24 19 00-0158	EA		230 Volt, Reduced Volt, Part Winding Starters, 50 HP Combination Starters With Current Limiting Circuit 12,707.97	288.13	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 172.88		
26 24 19 00-0159	EA		230 Volt, Reduced Volt, Part Winding Starters, 75 HP Combination Starters With Current Limiting Circuit 22,433.80	351.37	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 210.83		
26 24 19 00-0160	EA		230 Volt, Reduced Volt, Part Winding Starters, 150 HP Combination Starters With Current Limiting Circuit 33,064.16	449.76	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 269.87		
26 24 19 00-0161			480 Volt Combination Starters With Current Limiting Circuit <small>(26 24 19 00-0092)</small> Note: Reduced volt, part winding.		
26 24 19 00-0162	EA		480 Volt, Reduced Volt, Part Winding Starters, 15 HP Combination Starters With Current Limiting Circuit 5,834.51	224.88	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 134.93		
26 24 19 00-0163	EA		480 Volt, Reduced Volt, Part Winding Starters, 40 HP Combination Starters With Current Limiting Circuit 7,276.12	260.02	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 156.01		
26 24 19 00-0164	EA		480 Volt, Reduced Volt, Part Winding Starters, 75 HP Combination Starters With Current Limiting Circuit 12,707.97	288.13	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 172.88		
26 24 19 00-0165	EA		480 Volt, Reduced Volt, Part Winding Starters, 150 HP Combination Starters With Current Limiting Circuit 22,433.80	351.37	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 210.83		
26 24 19 00-0166	EA		480 Volt, Reduced Volt, Part Winding Starters, 350 HP Combination Starters With Current Limiting Circuit 33,064.16	449.76	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 269.87		
26 24 19 00-0167			230 Volt Combination Starters With Current Limiting Circuit <small>(26 24 19 00-0092)</small> Note: Reduced volt, energy saving		
26 24 19 00-0168	EA		230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 7.5 HP Combination Starters With Current Limiting Circuit 21,147.97	182.72	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 109.63		
26 24 19 00-0169	EA		230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 15 HP Combination Starters With Current Limiting Circuit 22,402.49	224.88	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 134.93		
26 24 19 00-0170	EA		230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 30 HP Combination Starters With Current Limiting Circuit 24,653.18	260.02	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 156.01		
26 24 19 00-0171	EA		230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 50 HP Combination Starters With Current Limiting Circuit 36,847.99	288.13	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 172.88		
26 24 19 00-0172	EA		230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 100 HP Combination Starters With Current Limiting Circuit 49,929.02	351.37	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 210.83		
26 24 19 00-0173	EA		230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 200 HP Combination Starters With Current Limiting Circuit 69,957.57	449.76	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 269.87		
26 24 19 00-0174			480 Volt Combination Starters With Current Limiting Circuit <small>(26 24 19 00-0092)</small> Note: Reduced volt, energy saving		
26 24 19 00-0175	EA		480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 10 HP Combination Starters With Current Limiting Circuit 21,148.03	182.72	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 109.65		
26 24 19 00-0176	EA		480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 25 HP Combination Starters With Current Limiting Circuit 22,402.49	224.88	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 134.93		
26 24 19 00-0177	EA		480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 50 HP Combination Starters With Current Limiting Circuit 24,653.18	260.02	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 156.01		
26 24 19 00-0178	EA		480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 100 HP Combination Starters With Current Limiting Circuit 36,847.99	288.13	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 172.88		
26 24 19 00-0179	EA		480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 200 HP Combination Starters With Current Limiting Circuit 49,929.02	351.37	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 210.83		
26 24 19 00-0180	EA		480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 400 HP Combination Starters With Current Limiting Circuit 69,957.57	449.76	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 269.87		
26 24 19 00-0181			Combination Starters With Fusible Switch <small>(26 24 19)</small> Note: Includes NEMA I enclosure of indoor installation, vertical free standing floor mounted sections (90" high x 20" wide x 16" to 20" deep), fully factory assembled and Wired Internally.		
26 24 19 00-0182			230 Volt Combination Starters With Fusible Switch, Full Volt <small>(26 24 19 00-0181)</small> Note: 1-Speed non-reversing.		
26 24 19 00-0183	EA		7-1/2 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing 2,200.97	140.55	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 84.33		
26 24 19 00-0184	EA		15 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing 3,014.97	147.58	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 88.55		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0185 EA 30 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	5,040.31	154.61
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	92.76	
26 24 19 00-0186 EA 50 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	8,849.41	182.72
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	109.63	
26 24 19 00-0187 EA 100 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	14,326.97	210.82
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	126.50	
26 24 19 00-0188 EA 200 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	25,511.31	281.10
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	168.66	
26 24 19 00-0189 480 Volt Combination Starters With Fusible Switch, Full Volt <small>(26 24 19 00-0181)</small>		
Note: 1-Speed non-reversing.		
26 24 19 00-0190 EA 10 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	2,200.97	140.55
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	84.33	
26 24 19 00-0191 EA 25 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	3,014.97	147.58
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	88.55	
26 24 19 00-0192 EA 50 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	5,040.31	154.61
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	92.76	
26 24 19 00-0193 EA 100 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	8,849.41	182.72
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	109.63	
26 24 19 00-0194 EA 200 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	14,326.97	210.82
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	126.50	
26 24 19 00-0195 EA 400 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	25,511.31	281.10
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	168.66	
26 24 19 00-0196 230 Volt Combination Starters With Fusible Switch, Full Volt <small>(26 24 19 00-0181)</small>		
Note: 1-Speed reversing.		
26 24 19 00-0197 EA 7-1/2 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....	3,515.16	140.55
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	84.33	
26 24 19 00-0198 EA 15 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....	5,209.10	147.58
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	88.55	
26 24 19 00-0199 EA 30 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....	8,297.22	154.61
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	92.76	
26 24 19 00-0200 EA 50 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....	13,491.37	182.72
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	109.63	
26 24 19 00-0201 EA 100 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....	20,724.23	210.82
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	126.50	
26 24 19 00-0202 EA 200 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....	35,192.92	281.10
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	168.66	
26 24 19 00-0203 480 Volt Combination Starters With Fusible Switch, Full Volt <small>(26 24 19 00-0181)</small>		
Note: 1-Speed reversing.		
26 24 19 00-0204 EA 10 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....	3,515.16	140.55
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	84.33	
26 24 19 00-0205 EA 25 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....	5,209.10	147.58
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	88.55	
26 24 19 00-0206 EA 50 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....	8,297.22	154.61
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	92.76	
26 24 19 00-0207 EA 100 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....	13,491.37	182.72
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	109.63	
26 24 19 00-0208 EA 200 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....	20,724.23	210.82
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	126.50	
26 24 19 00-0209 EA 400 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....	35,192.92	281.10
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	168.66	
26 24 19 00-0210 230 Volt Combination Starters With Fusible Switch, Full Volt <small>(26 24 19 00-0181)</small>		
Note: 2-Speed non-reversing, 2 wind.		
26 24 19 00-0211 EA 10 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter.....	4,145.49	224.88
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	134.93	
26 24 19 00-0212 EA 15 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter.....	5,668.36	238.94
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	143.36	
26 24 19 00-0213 EA 30 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter.....	8,861.94	253.00
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	151.79	
26 24 19 00-0214 EA 50 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter.....	15,752.33	288.13
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	172.88	
26 24 19 00-0215 EA 100 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter.....	25,038.67	337.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	202.40	
26 24 19 00-0216 480 Volt Combination Starters With Fusible Switch, Full Volt <small>(26 24 19 00-0181)</small>		
Note: 2-Speed non-reversing, 2 wind.		
26 24 19 00-0217 EA 10 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter.....	4,145.49	224.88
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	134.93	
26 24 19 00-0218 EA 25 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter.....	5,668.36	238.94
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	143.36	
26 24 19 00-0219 EA 50 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter.....	8,861.94	253.00
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	151.79	
26 24 19 00-0220 EA 100 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter.....	15,752.33	288.13
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	172.88	
26 24 19 00-0221 EA 200 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter.....	25,038.67	337.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	202.40	

26	Electrical
26 20	Low-Voltage Electrical Distribution
26 24	Switchboards and Panelboards



MINOR	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
CSI UOM			
26 24 19 00-0222	230 Volt Combination Starters With Fusible Switch, Full Volt <small>(26 24 19 00-0181)</small> Note: 2-Speed non-reversing, 1 wind.		
26 24 19 00-0223	EA 7-1/2 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter 4,676.22 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 84.33	140.55	
26 24 19 00-0224	EA 15 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter 7,099.25 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 88.55	147.58	
26 24 19 00-0225	EA 30 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter 10,194.23 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 92.76	154.61	
26 24 19 00-0226	EA 50 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter 20,487.45 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 109.63	182.72	
26 24 19 00-0227	480 Volt Combination Starters With Fusible Switch, Full Volt <small>(26 24 19 00-0181)</small> Note: 2-Speed non-reversing, 1 wind.		
26 24 19 00-0228	EA 10 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter 4,676.22 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 84.33	140.55	
26 24 19 00-0229	EA 25 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter 7,099.25 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 88.55	147.58	
26 24 19 00-0230	EA 50 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter 10,194.23 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 92.76	154.61	
26 24 19 00-0231	EA 100 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter 20,487.45 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 109.63	182.72	
26 24 19 00-0232	230 Volt Combination Starters With Fusible Switch, Reduced Volt <small>(26 24 19 00-0181)</small> Note: Auto-transformer.		
26 24 19 00-0233	EA 15 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer..... 7,051.26 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 88.55	147.58	
26 24 19 00-0234	EA 30 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer..... 12,402.42 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 96.98	161.63	
26 24 19 00-0235	EA 50 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer..... 20,622.29 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 109.63	182.72	
26 24 19 00-0236	EA 100 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer..... 27,519.19 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 126.50	210.82	
26 24 19 00-0237	EA 200 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer..... 46,197.86 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 168.66	281.10	
26 24 19 00-0238	480 Volt Combination Starters With Fusible Switch, Reduced Volt <small>(26 24 19 00-0181)</small> Note: Auto-transformer.		
26 24 19 00-0239	EA 25 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer..... 7,051.26 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 88.55	147.58	
26 24 19 00-0240	EA 50 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer..... 12,402.42 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 96.98	161.63	
26 24 19 00-0241	EA 100 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer..... 20,622.29 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 109.63	182.72	
26 24 19 00-0242	EA 200 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer..... 27,519.19 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 126.50	210.82	
26 24 19 00-0243	EA 400 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer..... 46,197.86 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 168.66	281.10	
26 24 19 00-0244	230 Volt Combination Starters With Fusible Switch, Reduced Volt <small>(26 24 19 00-0181)</small> Note: Part winding.		
26 24 19 00-0245	EA 10 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters..... 5,073.43 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 134.93	224.88	
26 24 19 00-0246	EA 25 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters..... 6,697.87 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 156.01	260.02	
26 24 19 00-0247	EA 50 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters..... 10,602.97 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 172.88	288.13	
26 24 19 00-0248	EA 75 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters..... 21,028.19 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 210.83	351.37	
26 24 19 00-0249	480 Volt Combination Starters With Fusible Switch, Reduced Volt <small>(26 24 19 00-0181)</small> Note: Part winding.		
26 24 19 00-0250	EA 15 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters..... 5,073.43 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 134.93	224.88	
26 24 19 00-0251	EA 40 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters..... 6,697.87 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 156.01	260.02	
26 24 19 00-0252	EA 75 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters..... 10,602.97 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 172.88	288.13	
26 24 19 00-0253	EA 150 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters..... 21,028.19 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 210.83	351.37	
26 24 19 00-0254	230 Volt Combination Starters With Fusible Switch, Reduced Volt <small>(26 24 19 00-0181)</small> Note: Energy saver.		
26 24 19 00-0255	EA 7.5 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP..... 20,489.73 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 109.63	182.72	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0256 EA 15 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP 21,753.40	21,753.40	224.88
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 134.93	134.93	
26 24 19 00-0257 EA 30 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP 24,026.94	24,026.94	260.02
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 156.01	156.01	
26 24 19 00-0258 EA 50 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP 36,329.17	36,329.17	288.13
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 172.88	172.88	
26 24 19 00-0259 EA 100 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP 49,526.76	49,526.76	351.37
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 210.83	210.83	
26 24 19 00-0260 EA 200 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP 67,198.90	67,198.90	449.76
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 269.87	269.87	
26 24 19 00-0261 480 Volt Combination Starters With Fusible Switch, Reduced Volt <small>(26 24 19 00-0181)</small>		
Note: Energy saver.		
26 24 19 00-0262 EA 10 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP 20,489.73	20,489.73	182.72
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 109.63	109.63	
26 24 19 00-0263 EA 25 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP 21,753.40	21,753.40	224.88
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 134.93	134.93	
26 24 19 00-0264 EA 50 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP 24,026.94	24,026.94	260.02
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 156.01	156.01	
26 24 19 00-0265 EA 100 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP 36,329.17	36,329.17	288.13
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 172.88	172.88	
26 24 19 00-0266 EA 200 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP 49,526.76	49,526.76	351.37
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 210.83	210.83	
26 24 19 00-0267 EA 400 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP 67,198.90	67,198.90	449.76
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 269.87	269.87	
26 24 19 00-0268 Starter Accessories <small>(26 24 19)</small>		
Note: Additional options or accessories for the Combination Starters		
26 24 19 00-0269 Starter Modifications <small>(26 24 19 00-0268)</small>		
26 24 19 00-0270 EA Size 1, 2, 50 VA, 60 Hertz, Standard Control Circuit Transformer 187.23	187.23	
26 24 19 00-0271 EA Size 3, 4, 150 VA, 60 Hertz, Standard Control Circuit Transformer 356.55	356.55	
26 24 19 00-0272 EA Size 5, 6, 50 VA, 60 Hertz, Control Circuit Transformer 509.68	509.68	
26 24 19 00-0273 EA Extra 50 VA, 60 Hertz, Control Circuit Transformer, All Sizes 127.99	127.99	
26 24 19 00-0274 EA Extra 100 VA, 60 Hertz, Control Circuit Transformer, All Sizes 180.56	180.56	
26 24 19 00-0275 EA Extra 150 VA, 60 Hertz, Control Circuit Transformer, All Sizes 303.98	303.98	
26 24 19 00-0276 EA Overload Relay Heater Elements, 3 Per Starter 75.42	75.42	
26 24 19 00-0277 EA N.O. Overload Relay Alarm 64.00	64.00	
26 24 19 00-0278 EA Control Circuit Fuses, Primary/Secondary 202.20	202.20	
26 24 19 00-0279 EA Control Devices Type PB2 Mount On Device, 2 Unit Pushbutton 249.99	249.99	
26 24 19 00-0280 EA Control Devices Type PB2 Mount On Device, 3 Unit Pushbutton 488.95	488.95	
26 24 19 00-0281 EA Control Devices Type PB2 Mount On Device, 2 Or 3 Post Select 249.99	249.99	
26 24 19 00-0282 EA Control Devices Type PB2 Mount On Device, Individual Light Full V 286.75	286.75	
26 24 19 00-0283 EA Control Devices Type PB2 Mount On Device, Individual Light Transformer 345.58	345.58	
26 24 19 00-0284 EA Control Devices Type PB2 Mount On Device, Individual Light Push To 408.07	408.07	
26 24 19 00-0285 EA Blank Devices Panel 77.20	77.20	
26 24 19 00-0286 EA Oversize Or Special Color Starter 121.32	121.32	
26 24 19 00-0287 EA Mini Voltmeter/Ammeter With Current Transformer 1,053.15	1,053.15	
26 24 19 00-0288 EA Mini Elapsed Time Meters, Non-Resettable 953.89	953.89	
26 24 19 00-0289 EA Panel Elapsed Time Meter, Resettable 1,433.77	1,433.77	
26 24 19 00-0290 EA Terminal Blocks, Side Mounted, Press Connection, Plug-In Press 121.32	121.32	
26 24 19 00-0291 EA Terminal Blocks, Side Mounted, Press Connection, Plug-In Screw 172.79	172.79	
26 24 19 00-0292 EA Terminal Blocks, Front Mounted, Press Connection, Standard 121.32	121.32	
26 24 19 00-0293 EA Terminal Blocks, Front Mounted, Press Connection, Plug-In 172.79	172.79	
26 24 19 00-0294 EA Terminal Blocks, Front Mounted, Press Connection, Screw-Type Utility 172.79	172.79	
26 24 19 00-0295 EA Terminal Blocks, Front Mounted, Press Connection, Plug-In Screw Type 249.99	249.99	
26 24 19 00-0296 EA MOR - A Solid State Modular Overload Relay 621.30	621.30	
26 24 19 00-0297 EA Heater Module 79.21	79.21	
26 24 19 00-0298 EA LAM - Long Acceleration Module 492.08	492.08	
26 24 19 00-0299 EA JAM - Jam Protection Module 564.09	564.09	
26 24 19 00-0300 EA PUM - Phase Unbalance Module 1,070.58	1,070.58	
26 24 19 00-0301 EA ULM - Underload Module 513.69	513.69	
26 24 19 00-0302 EA Wiring To Common Control Circuit Transformer 112.82	112.82	
26 24 19 00-0303 EA Handle Operator Separable Source Control Circuit 211.24	211.24	
26 24 19 00-0304 EA Type SIS Control Wire 88.81	88.81	
26 24 19 00-0305 EA Ring Or Spade Terminals Control 112.82	112.82	
26 24 19 00-0306 EA Ring Terminals Power 112.82	112.82	
26 24 19 00-0307 EA 14 Gauge Control Wire 88.81	88.81	
26 24 19 00-0308 EA Wiremakers 112.82	112.82	
26 24 19 00-0309 EA Wiring Diagram On Door 67.21	67.21	

26 Electrical
26 20 Low-Voltage Electrical Distribution
26 24 Switchboards and Panelboards



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0310	EA		Special Color Or Type Control Wire.....	81.61	
26 24 19 00-0311	EA		Current Transformer 12.5 VA.....	640.91	
26 24 19 00-0312	EA		Ground Fault Relay-Instant Non-Adjust, Size 1 Thru 4.....	2,047.54	
26 24 19 00-0313	EA		Ground Fault Relay-Instant Non-Adjust, Size 5 Thru 6.....	2,304.38	
26 24 19 00-0314			Control Relays And Special Components <small>(26 24 19 00-0268)</small>		
26 24 19 00-0315	EA		600 Volt, 2 Pole, Control Relays.....	578.17	
26 24 19 00-0316	EA		600 Volt, 4 Pole, Control Relays.....	687.32	
26 24 19 00-0317	EA		600 Volt, 6 Pole, Control Relays.....	810.55	
26 24 19 00-0318	EA		600 Volt, 8 Pole, Control Relays.....	904.96	
26 24 19 00-0319	EA		Pneumatic Timer, Control Relays.....	757.04	
26 24 19 00-0320	EA		Motor Driven Timer, Control Relays.....	1,972.72	
26 24 19 00-0321	EA		7 Days Time Switch, Control Relays.....	2,482.94	
26 24 19 00-0322	EA		24 Hour Time Switch, Control Relays.....	696.26	
26 24 19 00-0323	EA		Phase Voltage, Control Relays.....	1,184.37	
26 24 19 00-0324	EA		Two Circuit Alternator, Control Relays.....	1,657.75	
26 24 19 00-0325	EA		Manual 120 Volt, Control Relays.....	162.09	
26 24 19 00-0326	EA		Over-Current Relay, Control Relays.....	4,579.96	
26 24 19 00-0327	EA		UV-Relay, Control Relays.....	3,879.05	
26 24 19 00-0328	EA		Over-Current Relay, Control Relays.....	3,879.05	
26 24 19 00-0329	EA		Teleductor, Control Relays.....	1,221.21	
26 24 19 00-0330	EA		Current Transducer, Control Relays.....	3,284.19	
26 24 19 00-0331	EA		Watt Transducer, Control Relays.....	6,568.38	
26 24 19 00-0332	EA		Control Relays, Blank, Add For Each 1x.....	222.88	
26 24 19 00-0333	EA		Control Relays, Fixed Mounted Back Pan, 20" Structure With Wireway.....	333.39	
26 24 19 00-0334	EA		Control Relays, Fixed Mounted Back Pan, 24" Structure With Wireway.....	375.76	
26 24 19 00-0335	EA		Control Relays, Fixed Mounted Back Pan, 280" Structure With Wireway.....	418.12	
26 24 19 00-0336	EA		Control Relays, Fixed Mounted Back Pan, 20" Structure Without Wireway.....	375.76	
26 24 19 00-0337	EA		Control Relays, Fixed Mounted Back Pan, 24" Structure Without Wireway.....	418.12	
26 24 19 00-0338	EA		Control Relays, Fixed Mounted Back Pan, 2820" Structure Without Wireway.....	440.22	
26 24 19 00-0339			Circuit Breaker Modifications/Accessories <small>(26 24 19 00-0268)</small>		
26 24 19 00-0340	EA		Shunt Trip, Circuit Breaker.....	396.02	
26 24 19 00-0341	EA		Auxiliary Switch, Circuit Breaker.....	136.79	
26 24 19 00-0342	EA		Key Interlock, Circuit Breaker.....	491.99	
26 24 19 00-0343	EA		GFR Ground Fault, Circuit Breaker.....	2,268.02	
26 24 19 00-0344	EA		Seltronic Breaker, Circuit Breaker.....	1,313.82	
26 24 19 00-0345			Incoming Line And Feeder Circuit Breakers <small>(26 24 19 00-0268)</small>		
26 24 19 00-0346	EA		Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 100.....	2,542.91	91.36
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>54.81</i>	
26 24 19 00-0347	EA		Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 150.....	4,416.98	140.55
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>84.33</i>	
26 24 19 00-0348	EA		Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 100/100.....	4,289.16	91.36
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>54.81</i>	
26 24 19 00-0349	EA		Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 100/150.....	6,159.56	140.55
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>84.33</i>	
26 24 19 00-0350	EA		Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 150/150.....	7,938.90	140.55
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>84.33</i>	
26 24 19 00-0351	EA		Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 250.....	4,839.59	182.72
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>109.65</i>	
26 24 19 00-0352	EA		Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 400.....	7,919.07	196.77
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>118.08</i>	
26 24 19 00-0353	EA		Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 600.....	10,450.24	253.00
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>151.73</i>	
26 24 19 00-0354	EA		Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 800.....	12,232.41	386.51
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>231.98</i>	
26 24 19 00-0355	EA		Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 1200.....	17,299.25	583.29
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>350.25</i>	
26 24 19 00-0356	EA		Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 2000.....	38,267.65	773.03
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>463.42</i>	
26 24 19 00-0357	EA		Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 2500.....	57,307.05	969.80
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>581.33</i>	
26 24 19 00-0358	EA		Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 3000.....	95,942.13	1,124.27
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>675.23</i>	
26 24 19 00-0359	EA		Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 50.....	3,068.62	91.36
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>54.81</i>	
26 24 19 00-0360	EA		Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 150.....	4,927.99	140.55
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>84.33</i>	
26 24 19 00-0361	EA		Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 50.....	3,068.62	91.36
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>54.81</i>	
26 24 19 00-0362	EA		Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 50/50.....	4,927.99	140.55
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>84.33</i>	
26 24 19 00-0363	EA		Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 50/150.....	5,263.40	91.36
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>54.81</i>	
26 24 19 00-0364	EA		Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 150/150.....	7,196.28	140.55
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>84.33</i>	
26 24 19 00-0365	EA		Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 50.....	8,953.57	140.55
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>84.33</i>	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0366 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 100 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,674.32 84.33	140.55
26 24 19 00-0367 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 400 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11,820.67 231.98	386.51
26 24 19 00-0368 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 125-225 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11,820.67 231.98	386.51
26 24 19 00-0369 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 125-400 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15,989.45 252.89	421.65
26 24 19 00-0370 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 300-600 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19,990.09 295.03	491.93
26 24 19 00-0371 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 300-800 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22,990.22 350.25	583.29
26 24 19 00-0372 Incoming Line And Feeder Fusible Switches (26 24 19 00-0268)		
26 24 19 00-0373 EA 30 To 60 Amperes, Incoming Line And Feeder Fusible Switches	1,975.78	140.55
26 24 19 00-0374 EA Incoming Line And Feeder Fusible Switches, 30 Dual / 60 Dual	3,029.56	140.55
26 24 19 00-0375 EA 100 Amperes, Incoming Line And Feeder Fusible Switches	4,387.98	175.69
26 24 19 00-0376 EA 200 Amperes, Incoming Line And Feeder Fusible Switches	7,182.53	210.82
26 24 19 00-0377 EA 400 Amperes, Incoming Line And Feeder Fusible Switches	14,250.64	267.05
26 24 19 00-0378 EA 600 Amperes, Incoming Line And Feeder Fusible Switches	20,003.52	351.37
26 24 19 00-0379 EA 800 Amperes, Incoming Line And Feeder Fusible Switches	48,891.48	470.84
26 24 19 00-0380 EA 1,200 Amperes, Incoming Line And Feeder Fusible Switches	55,084.74	653.56
26 24 19 00-0381 Dry Type Distribution Transformers (26 24 19 00-0268)		
26 24 19 00-0382 EA 500 VA, Phase 1, Dry Type Distribution Transformers	2,507.26	
26 24 19 00-0383 EA 750 VA, Phase 1, Dry Type Distribution Transformers	2,588.14	
26 24 19 00-0384 EA 1,000 VA, Phase 1, Dry Type Distribution Transformers	2,672.69	
26 24 19 00-0385 EA 1,500 VA, Phase 1, Dry Type Distribution Transformers	3,066.06	
26 24 19 00-0386 EA 2,000 VA, Phase 1, Dry Type Distribution Transformers	3,323.41	
26 24 19 00-0387 EA 3,000 VA, Phase 1, Dry Type Distribution Transformers	2,575.63	
26 24 19 00-0388 EA 5,000 VA, Phase 1, Dry Type Distribution Transformers	4,521.89	
26 24 19 00-0389 EA 7,500 VA, Phase 1, Dry Type Distribution Transformers	5,095.40	
26 24 19 00-0390 EA 9,000 VA, Phase 3, Dry Type Distribution Transformers	11,845.15	
26 24 19 00-0391 EA 10,000 VA, Phase 1, Dry Type Distribution Transformers	6,286.53	
26 24 19 00-0392 EA 15,000 VA, Phase 1, Dry Type Distribution Transformers	8,709.24	
26 24 19 00-0393 EA 15,000 VA, Phase 3, Dry Type Distribution Transformers	13,573.03	
26 24 19 00-0394 EA 20,000 VA, Phase 1, Dry Type Distribution Transformers	12,569.39	
26 24 19 00-0395 EA 30,000 VA, Phase 1, Dry Type Distribution Transformers	17,418.47	
26 24 19 00-0396 EA 30,000 VA, Phase 3, Dry Type Distribution Transformers	12,314.05	
26 24 19 00-0397 EA 45,000 VA, Phase 1, Dry Type Distribution Transformers	17,057.24	
26 24 19 00-0398 Metering Equipment (26 24 19 00-0268)		
26 24 19 00-0399 EA Metering Equipment, Voltmeter, Panel Type	1,183.78	
26 24 19 00-0400 EA Metering Equipment, Voltmeter, Switchboard Type	2,588.14	
26 24 19 00-0401 EA Metering Equipment, Ammeter, Panel	1,066.14	
26 24 19 00-0402 EA Metering Equipment, Ammeter, Switchboard Type	2,588.14	
26 24 19 00-0403 EA Metering Equipment, Voltmeter/Ammeter, Switch	1,437.45	
26 24 19 00-0404 EA Metering Equipment, Control Switch, 4 Circuits	1,525.68	
26 24 19 00-0405 EA Add For Additional Circuits	132.02	
26 24 19 00-0406 EA Metering Equipment, Indicating Wattmeter	5,338.04	
26 24 19 00-0407 EA Metering Equipment, Indicating Power Factor	5,591.70	
26 24 19 00-0408 EA Metering Equipment, Integrating Watt-hour	4,929.96	
26 24 19 00-0409 EA Add For Demand Attachment	864.14	
26 24 19 00-0410 EA 800 Amperes, Metering Equipment, Current Transformer	1,474.21	
26 24 19 00-0411 EA 1,000 Amperes, Metering Equipment, Current Transformer	2,544.02	
26 24 19 00-0412 EA 2,000 Amperes, Metering Equipment, Current Transformer	2,963.13	
26 24 19 00-0413 EA Metering Equipment, Potential Transformer	2,470.50	
26 24 19 00-0414 EA Metering Equipment, Surge Arrester	2,657.99	
26 24 19 00-0415 EA Metering Equipment, Ground Detector System	2,033.01	
26 24 19 00-0416 Current Limiting Reactors (26 24 19 00-0268)		
26 24 19 00-0417 EA 600 Amperes, Current Limiting Reactors	45,376.99	
26 24 19 00-0418 EA 800 Amperes, Current Limiting Reactors	66,082.11	
26 24 19 00-0419 EA 1,000 Amperes, Current Limiting Reactors	86,835.02	
26 24 19 00-0420 EA 1,200 Amperes, Current Limiting Reactors	132,178.93	
26 24 19 00-0421 Incoming Line Cable Space Requirements, Main Lugs Only (26 24 19 00-0268)		
26 24 19 00-0422 EA Incoming Line Cable Space Requirement, 350 MCC, 2 Screw	495.96	
26 24 19 00-0423 EA Incoming Line Cable Space Requirement, 350 MCC, 2 Crimp	495.96	
26 24 19 00-0424 EA Incoming Line Cable Space Requirement, 350 MCC, 4 Screw	685.67	
26 24 19 00-0425 EA Incoming Line Cable Space Requirement, 350 MCC, 4 Crimp	1,254.77	
26 24 19 00-0426 EA Incoming Line Cable Space Requirement, 600 MCC, 2 Screw	685.67	
26 24 19 00-0427 EA Incoming Line Cable Space Requirement, 600 MCC, 2 Crimp	875.37	
26 24 19 00-0428 EA Incoming Line Cable Space Requirement, 600 MCC, 4 Screw	875.37	
26 24 19 00-0429 EA Incoming Line Cable Space Requirement, 600 MCC, 4 Crimp	1,252.48	
26 24 19 00-0430 EA Incoming Line Cable Space Requirement, 750 MCC, 2 Screw	875.37	

26 Electrical
26 20 Low-Voltage Electrical Distribution
26 24 Switchboards and Panelboards



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0431 EA Incoming Line Cable Space Requirement, 750 MCC, 2 Crimp.....	1,252.48	
26 24 19 00-0432 EA Incoming Line Cable Space Requirement, 750 MCC, 4 Screw.....	1,065.07	
26 24 19 00-0433 EA Incoming Line Cable Space Requirement, 750 MCC, 4 Crimp.....	3,453.47	
26 24 19 00-0434 EA Incoming Line Cable Space Requirement, 1,000 MCC, 2 Screw.....	1,065.07	
26 24 19 00-0435 EA Incoming Line Cable Space Requirement, 1,000 MCC, 2 Crimp.....	1,252.48	
26 24 19 00-0436 EA Incoming Line Cable Space Requirement, 1,000 MCC, 4 Screw.....	3,453.47	
26 24 19 00-0437 EA Incoming Line Cable Space Requirement, 1,000 MCC, 4 Crimp.....	3,453.47	
26 24 19 00-0438 EA Bus Duct Transition Pull Box.....	1,065.10	
26 24 19 00-0439 EA Throat And Transition To Substation.....	2,056.17	
26 24 19 00-0440 EA Service Entrance Label.....	445.29	
26 24 19 00-0441 EA Type W To 5 Star - 10" Transition.....	930.78	
26 24 19 00-0442 EA 600 Amperes, Sub Feed Lugs On Main Bus.....	573.70	
26 24 19 00-0443 Standard Structures And Structure Options/Modifications (26 24 19 00-0268)		
26 24 19 00-0444 EA Standard Structure Add For Each Additional 4" Of Structure Width.....	294.04	
26 24 19 00-0445 EA Standard Structure Add For 8" Vertical Wireway In Lieu Of 4".....	294.04	
26 24 19 00-0446 EA Standard Structure Single Corner Section "L", 16" Depth.....	909.62	
26 24 19 00-0447 EA Standard Structure Single Corner Section "L", 21" Depth.....	1,025.97	
26 24 19 00-0448 EA Standard Structure Unused Space/Future Space.....	87.79	
26 24 19 00-0449 EA Standard Structure NEMA 12 Dustproof.....	236.92	
26 24 19 00-0450 EA Standard Structure Bottom Plate For NEMA 1 Gasket Enclosure.....	49.71	
26 24 19 00-0451 EA Standard Structure 150 Watt Space.....	213.66	
26 24 19 00-0452 EA Standard Structure Thermostat For Space Heater Control.....	698.52	
26 24 19 00-0453 EA Standard Structure Rear Hinged Structure Door, 72" High.....	213.66	
26 24 19 00-0454 EA Standard Structure NEMA 2 Drip Shield On Top Of MCC.....	451.28	
26 24 19 00-0455 EA Standard Structure NEMA 3R N-Walk In Front Mounted.....	6,437.87	
26 24 19 00-0456 EA Standard Structure NEMA 3R N-Walk In Back-to-back.....	7,441.24	
26 24 19 00-0457 EA Standard Structure NEMA 3R Walk-In Aisle Front Mounted.....	7,448.44	
26 24 19 00-0458 Installation Hours For Vertical Sections (26 24 19 00-0268)		
26 24 19 00-0459 EA Install Vertical Section, 230/480 Volt, 1 Section, 600 Amperes.....	843.27	421.65
26 24 19 00-0460 EA Install Vertical Section, 230/480 Volt, 2 Section, 600 Amperes.....	1,264.90	632.48
26 24 19 00-0461 EA Install Vertical Section, 230/480 Volt, 3 Section, 600 Amperes.....	1,405.52	702.76
26 24 19 00-0462 EA Install Vertical Section, 230/480 Volt, 4 Section, 600 Amperes.....	1,686.76	843.31
26 24 19 00-0463 EA Bolt To Floor, Vertical Section, 230/480 Volt, 600 Amperes.....	140.55	70.27
26 24 19 00-0464 EA Install Vertical Section, 230/480 Volt, 1 Section, 800 Amperes.....	843.27	421.65
26 24 19 00-0465 EA Install Vertical Section, 230/480 Volt, 2 Section, 800 Amperes.....	1,264.90	632.48
26 24 19 00-0466 EA Install Vertical Section, 230/480 Volt, 3 Section, 800 Amperes.....	1,405.52	702.76
26 24 19 00-0467 EA Install Vertical Section, 230/480 Volt, 4 Section, 800 Amperes.....	1,686.76	843.31
26 24 19 00-0468 EA Bolt To Floor, Vertical Section, 230/480 Volt, 800 Amperes.....	140.55	70.27
26 24 19 00-0469 EA Install Vertical Section, 230/480 Volt, 1 Section, 1,200 Amperes.....	983.88	491.93
26 24 19 00-0470 EA Install Vertical Section, 230/480 Volt, 2 Section, 1,200 Amperes.....	1,264.90	632.48
26 24 19 00-0471 EA Install Vertical Section, 230/480 Volt, 3 Section, 1,200 Amperes.....	1,686.76	843.31
26 24 19 00-0472 EA Install Vertical Section, 230/480 Volt, 4 Section, 1,200 Amperes.....	1,967.46	983.72
26 24 19 00-0473 EA Bolt To Floor, Vertical Section, 230/480 Volt, 1,200 Amperes.....	210.82	105.41
26 24 19 00-0474 EA Install Vertical Section, 230/480 Volt, 1 Section, 1,600 Amperes.....	1,124.41	562.21
26 24 19 00-0475 EA Install Vertical Section, 230/480 Volt, 2 Section, 1,600 Amperes.....	1,546.20	773.03
26 24 19 00-0476 EA Install Vertical Section, 230/480 Volt, 3 Section, 1,600 Amperes.....	1,967.46	983.72
26 24 19 00-0477 EA Install Vertical Section, 230/480 Volt, 4 Section, 1,600 Amperes.....	2,248.44	1,124.27
26 24 19 00-0478 EA Bolt To Floor, Vertical Section, 230/480 Volt, 1,600 Amperes.....	281.10	140.55
26 24 19 00-0479 EA Install Vertical Section, 230/480 Volt, 1 Section, 2,000 Amperes.....	1,124.41	562.21
26 24 19 00-0480 EA Install Vertical Section, 230/480 Volt, 2 Section, 2,000 Amperes.....	1,686.76	843.31
26 24 19 00-0481 EA Install Vertical Section, 230/480 Volt, 3 Section, 2,000 Amperes.....	2,108.04	1,053.99
26 24 19 00-0482 EA Install Vertical Section, 230/480 Volt, 4 Section, 2,000 Amperes.....	2,389.53	1,194.82
26 24 19 00-0483 EA Bolt To Floor, Vertical Section, 230/480 Volt, 2,000 Amperes.....	281.10	140.55
26 24 19 00-0484 Motor Control Centers (26 24 19)		
26 24 19 00-0485 2.4 KV Motor Control Centers (26 24 19 00-0484)		
26 24 19 00-0486 EA 2.4 KV CL 11-202, Squirrel Cage Motor Control, 100 To 300 Hp.....	17,361.40	281.10
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	168.66	
26 24 19 00-0487 EA 2.4 KV CL 11-202, Squirrel Cage Motor Control, 400 Hp.....	17,361.40	281.10
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	168.66	
26 24 19 00-0488 EA 2.4 KV CL 11-202, Squirrel Cage Motor Control, 600 Hp.....	17,361.40	281.10
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	168.66	
26 24 19 00-0489 EA 2.4 KV CL 11-202, Squirrel Cage Motor Control, 700 Hp.....	17,431.71	316.24
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	189.76	
26 24 19 00-0490 EA 2.4 KV CL 11-202, Squirrel Cage Motor Control, 1,000 Hp.....	18,519.15	351.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	210.83	
26 24 19 00-0491 EA 2,400 KV CL 11-202, Squirrel Cage Motor Control, 1,250 Hp.....	18,589.40	386.51
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	231.90	
26 24 19 00-0492 EA 2.4 KV CL 11-202, Squirrel Cage Motor Control, 1,500 Hp.....	18,659.66	421.65
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	252.98	
26 24 19 00-0493 EA 2.4 KV CL 11-202, Squirrel Cage Motor Control, 1,750 Hp.....	18,800.27	491.93
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	295.16	
26 24 19 00-0494 EA 2.4 KV CL 11-202, Squirrel Cage Motor Control, 2,000 Hp.....	18,940.80	562.21
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	337.32	
26 24 19 00-0495 EA 2.4 KV CL 11-202, Squirrel Cage Motor Control, 2,250 Hp.....	31,760.32	632.48
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	379.47	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0496 EA 2.4 KV CL 11-202, Squirrel Cage Motor Control, 2,500 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	34,099.73 421.66	702.76
26 24 19 00-0497 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 100 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25,700.38 168.66	281.10
26 24 19 00-0498 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 150 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26,778.24 181.31	302.19
26 24 19 00-0499 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 200 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30,416.22 198.17	330.29
26 24 19 00-0500 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 300 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	33,849.06 210.83	351.37
26 24 19 00-0501 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 400 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	36,838.47 244.57	407.60
26 24 19 00-0502 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 600 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	40,357.25 261.43	435.71
26 24 19 00-0503 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 700 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	43,873.93 278.28	463.82
26 24 19 00-0504 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 1,000 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	48,049.75 303.60	505.98
26 24 19 00-0505 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 1,250 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	55,903.14 337.32	562.21
26 24 19 00-0506 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 1,500 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	60,562.19 358.43	597.35
26 24 19 00-0507 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 1,750 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	92,398.58 421.66	702.76
26 24 19 00-0508 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 2,000 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	98,457.51 463.86	773.03
26 24 19 00-0509 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 2,250 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	103,735.44 506.03	843.31
26 24 19 00-0510 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 2,500 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	112,954.92 548.24	913.72
26 24 19 00-0511 EA 2.4 KV CL 14-202, Synchronous Motor Control, 100 To 300 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24,255.75 168.66	281.10
26 24 19 00-0512 EA 2.4 KV CL 14-202, Synchronous Motor Control, 400 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24,326.06 189.76	316.24
26 24 19 00-0513 EA 2.4 KV CL 14-202, Synchronous Motor Control, 600 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24,396.30 210.83	351.37
26 24 19 00-0514 EA 2.4 KV CL 14-202, Synchronous Motor Control, 700 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24,466.55 231.90	386.51
26 24 19 00-0515 EA 2.4 KV CL 14-202, Synchronous Motor Control, 1,000 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24,540.92 252.98	421.65
26 24 19 00-0516 EA 2,400 Volt CL 14-202, Synchronous Motor Control, 1,250 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24,611.26 274.08	456.80
26 24 19 00-0517 EA 2.4 KV CL 14-202, Synchronous Motor Control, 1,500 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24,681.53 295.16	491.93
26 24 19 00-0518 EA 2.4 KV CL 14-202, Synchronous Motor Control, 1,750 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24,962.55 379.47	632.48
26 24 19 00-0519 EA 2.4 KV CL 14-202, Synchronous Motor Control, 2,000 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	42,370.89 421.66	702.76
26 24 19 00-0520 EA 2.4 KV CL 14-202, Synchronous Motor Control, 2,250 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	42,511.57 463.86	773.03
26 24 19 00-0521 EA 2.4 KV CL 14-202, Synchronous Motor Control, 2,500 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	44,838.60 506.03	843.31
26 24 19 00-0522 EA Add For Reversing Starters, 100 To 700 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9,548.91 84.33	
26 24 19 00-0523 EA Add For Reversing Starters, 1,000 To 1,500 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9,836.60 84.33	
26 24 19 00-0524 EA Add For Reversing Starters, 1,750 To 2,500 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15,025.35 84.33	
26 24 19 00-0525 4.8 KV Motor Control Centers (26 24 19 00-0484)		
26 24 19 00-0526 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 100 To 600 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18,947.36 252.98	421.65
26 24 19 00-0527 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 700 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19,017.70 274.08	456.80
26 24 19 00-0528 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 1,000 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19,087.97 295.16	491.93
26 24 19 00-0529 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 1,250 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19,158.28 316.26	527.07
26 24 19 00-0530 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 1,500 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20,235.42 337.32	562.21
26 24 19 00-0531 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 1,750 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20,305.77 358.43	597.35
26 24 19 00-0532 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 2,000 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20,375.91 379.47	632.48
26 24 19 00-0533 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 2,250 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20,446.32 400.59	667.62
26 24 19 00-0534 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 2,500 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20,516.53 421.66	702.76
26 24 19 00-0535 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 3,000 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	34,634.71 548.24	913.72
26 24 19 00-0536 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 3,500 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	34,774.69 590.24	983.72

26 Electrical
26 20 Low-Voltage Electrical Distribution
26 24 Switchboards and Panelboards



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24	19 00-0537	EA	4.8 KV CL 11-202, Squirrel Cage Motor Control, 4,000 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	37,103.79 632.41	1,053.99
26 24	19 00-0538	EA	4.8 KV CL 11-202, Squirrel Cage Motor Control, 4,500 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	37,244.19 674.53	1,124.27
26 24	19 00-0539	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 100 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26,273.24 252.98	421.65
26 24	19 00-0540	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 150 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26,631.27 274.08	456.80
26 24	19 00-0541	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 200 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	31,037.48 295.16	491.93
26 24	19 00-0542	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 300 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	34,488.18 316.26	527.07
26 24	19 00-0543	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 400 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	37,435.33 337.32	562.21
26 24	19 00-0544	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 600 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	40,968.26 358.43	597.35
26 24	19 00-0545	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 700 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	44,285.22 379.47	632.48
26 24	19 00-0546	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 1,000 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	48,660.75 400.59	667.62
26 24	19 00-0547	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 1,250 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	56,334.26 421.66	702.76
26 24	19 00-0548	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 1,500 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	61,554.26 442.75	737.90
26 24	19 00-0549	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 1,750 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	66,844.55 484.92	808.17
26 24	19 00-0550	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 2,000 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	71,207.68 506.03	843.31
26 24	19 00-0551	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 2,250 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	75,324.00 527.07	878.45
26 24	19 00-0552	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 2,500 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	81,076.52 548.24	913.72
26 24	19 00-0553	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 3,000 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	128,370.83 674.53	1,124.27
26 24	19 00-0554	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 3,500 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	142,732.15 716.86	1,194.82
26 24	19 00-0555	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 4,000 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	171,487.58 758.95	1,264.96
26 24	19 00-0556	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 4,500 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	181,361.60 758.95	1,264.96
26 24	19 00-0557	EA	4.8 KV CL 14-202, Synchronous Motor Control, 100 To 600 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25,978.20 295.16	491.93
26 24	19 00-0558	EA	4.8 KV CL 14-202, Synchronous Motor Control, 700 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26,048.51 316.26	527.07
26 24	19 00-0559	EA	4.8 KV CL 14-202, Synchronous Motor Control, 1,000 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26,118.73 337.32	562.21
26 24	19 00-0560	EA	4.8 KV CL 14-202, Synchronous Motor Control, 1,250 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26,189.08 358.43	597.35
26 24	19 00-0561	EA	4.8 KV CL 14-202, Synchronous Motor Control, 1,500 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	28,425.14 379.47	632.48
26 24	19 00-0562	EA	4.8 KV CL 14-202, Synchronous Motor Control, 1,750 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	28,495.55 400.59	667.62
26 24	19 00-0563	EA	4.8 KV CL 14-202, Synchronous Motor Control, 2,000 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	28,565.76 421.66	702.76
26 24	19 00-0564	EA	4.8 KV CL 14-202, Synchronous Motor Control, 2,250 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	28,636.06 442.75	737.90
26 24	19 00-0565	EA	4.8 KV CL 14-202, Synchronous Motor Control, 2,500 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	28,706.44 463.86	773.03
26 24	19 00-0566	EA	4.8 KV CL 14-202, Synchronous Motor Control, 3,000 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	29,127.70 590.24	983.72
26 24	19 00-0567	EA	4.8 KV CL 14-202, Synchronous Motor Control, 3,500 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	46,823.69 632.41	1,053.99
26 24	19 00-0568	EA	4.8 KV CL 14-202, Synchronous Motor Control, 4,000 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	49,142.34 674.53	1,124.27
26 24	19 00-0569	EA	4.8 KV CL 14-202, Synchronous Motor Control, 4,500 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	49,142.34 674.53	1,124.27
26 24	19 00-0570	EA	Add For Reversing Starters, 100 To 1,250 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10,588.95 84.33	
26 24	19 00-0571	EA	Add For Reversing Starters, 1,500 To 2,500 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10,908.93 84.33	
26 24	19 00-0572	EA	Add For Reversing Starters, 3,000 To 4,500 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16,679.95 84.33	
26 24	19 00-0573		2.4/4.8 KV Motor Control Centers, Accessories (26 24 19 00-0484)		
26 24	19 00-0574	EA	2.4/4.8 KV Load Break Disconnect Switch 600 Amperes.....	13,818.42	281.10
26 24	19 00-0575	EA	2.4/4.8 KV Load Break Disconnect Switch 1,200 Amperes.....	16,638.73	421.65
26 24	19 00-0576	EA	2.4/4.8 KV NEMA 3 Weather Resistant.....	5,396.19	
26 24	19 00-0577	EA	2.4/4.8 KV Space Heaters.....	273.40	21.08
26 24	19 00-0578	EA	2.4/4.8 KV Potential Transformer Fused.....	1,563.32	
26 24	19 00-0579	EA	2.4/4.8 KV Current Transformer 600 Volt, 5 KVA.....	838.80	
26 24	19 00-0580	EA	2.4/4.8 KV Control Transformer 4 KVA Max.....	2,498.11	
26 24	19 00-0581	EA	2.4/4.8 KV Pushbuttons Each.....	159.99	
26 24	19 00-0582	EA	2.4/4.8 KV Selector Switch Each.....	530.25	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0583	EA			2.4/4.8 KV Indicating Light.....	159.99	
26 24 19 00-0584	EA			2.4/4.8 KV Push To Test Light.....	484.54	
26 24 19 00-0585	EA			2.4/4.8 KV AC Voltmeter, Switchboard Type.....	1,289.05	
26 24 19 00-0586	EA			2.4/4.8 KV AC Ammeter, Switchboard Type.....	1,289.05	
26 24 19 00-0587	EA			2.4/4.8 KV Power Factor Meter.....	3,855.73	
26 24 19 00-0588	EA			2.4/4.8 KV Watt Hr Meter, 2 Element Drawout.....	2,658.10	
26 24 19 00-0589	EA			2.4/4.8 KV Operation Counter.....	526.70	21.08
26 24 19 00-0590	EA			2.4/4.8 KV Phase Failure Protection.....	3,756.30	70.27
26 24 19 00-0591	EA			2.4/4.8 KV Ground Protection.....	7,137.20	35.14
26 24 19 00-0592	EA			2.4/4.8 KV Synchronous Motor DC Protection.....	2,873.22	35.14
26 24 19 00-0593	EA			2.4/4.8 KV Lightning Arresters.....	5,306.24	21.08
26 24 19 00-0594	EA			2.4/4.8 KV Portable Lifting Mechanism.....	7,673.41	
26 24 19 00-0595	EA			2.4/4.8 KV Auxiliary Timing Relay.....	630.85	70.27
26 24 19 00-0596	EA			2.4/4.8 KV Auxiliary Control Relay.....	464.78	70.27
26 24 19 00-0597				Incoming Section And Feeder Air Circuit Breakers <small>(26 24 19 00-0484)</small>		
				Note: 3 Pole. Includes structure.		
26 24 19 00-0598	EA			Incoming Section MCC, Air Circuit Breaker, 70 - 100 Amperes, 14,000 Ampere IC, 3-Pole, With Structure Included.....	1,470.28	421.48
26 24 19 00-0599	EA			Incoming Section MCC, Air Circuit Breaker, 125 - 225 Amperes, 22,000 Ampere IC, 3-Pole, With Structure Included.....	2,555.80	746.03
26 24 19 00-0600	EA			Incoming Section MCC, Air Circuit Breaker, 125 - 400 Amperes, 30,000 Ampere IC, 3-Pole, With Structure Included.....	3,075.59	955.24
26 24 19 00-0601	EA			Incoming Section MCC, Air Circuit Breaker, 125 - 600 Amperes, 30,000 Ampere IC, 3-Pole, With Structure Included.....	4,922.97	1,538.21
26 24 19 00-0602	EA			Incoming Section MCC, Air Circuit Breaker, 125 - 1,200 Amperes, 30,000 Ampere IC, 3-Pole, With Structure Included.....	5,770.16	1,692.04
26 24 19 00-0603	EA			Incoming Section MCC, Air Circuit Breaker, 125 - 2,000 Amperes, 30,000 Ampere IC, 3-Pole, With Structure Included.....	7,357.15	1,876.62
26 24 19 00-0604	EA			Incoming Section MCC, Air Circuit Breaker, 125 - 400 Amperes, 45,000 Ampere IC, 3-Pole, With Structure Included.....	8,567.56	2,199.65
26 24 19 00-0605	EA			Incoming Section MCC, Air Circuit Breaker, 125 - 400 Amperes, 100,000 Ampere IC, 3-Pole, With Structure Included.....	14,420.88	2,562.67
26 24 19 00-0606				Main Lugs Only <small>(26 24 19 00-0484)</small>		
26 24 19 00-0607	EA			600 Amperes Incoming Section, Main Lugs.....	1,225.89	538.38
26 24 19 00-0608	EA			800 Amperes Incoming Section, Main Lugs.....	1,334.79	538.38
26 24 19 00-0609	EA			1,200 Amperes Incoming Section, Main Lugs.....	1,887.05	846.02
26 24 19 00-0610	EA			2,000 Amperes Incoming Section, Main Lugs.....	4,458.52	1,538.21
26 24 19 00-0611	EA			3,000 Amperes Incoming Section, Main Lugs.....	6,755.27	2,230.41
26 24 19 00-0612	EA			4,000 Amperes Incoming Section, Main Lugs.....	9,597.44	3,076.43
26 24 19 00-0613				Incoming Main Circuit Breaker Structure <small>(26 24 19 00-0484)</small>		
				Note: Includes structure, main breaker, 42 KA bus bracing, 600 A tin plated copper bus, NEMA 1 enclosure, 15" cabinet depth, and 1/4" x 2" tin plated copper horizontal ground bus.		
26 24 19 00-0614	EA			225 Amperes, Main Circuit Breaker Section.....	7,362.73	744.34
				For 800 Amperes, Tin Plated Copper Bus, Add	182.00	
				For 1,200 Amperes, Tin Plated Copper Bus, Add	334.00	
				For NEMA 1 With Gaskets, Add	97.00	
				For NEMA 12, Add	245.00	
				For 20" Cabinet Depth, Add	108.00	
26 24 19 00-0615	EA			400 Amperes, Main Circuit Breaker Section.....	15,420.33	956.16
				For 800 Amperes, Tin Plated Copper Bus, Add	182.00	
				For 1,200 Amperes, Tin Plated Copper Bus, Add	334.00	
				For NEMA 1 With Gaskets, Add	97.00	
				For NEMA 12, Add	245.00	
				For 20" Cabinet Depth, Add	108.00	
26 24 19 00-0616	EA			600 Amperes, Main Circuit Breaker Section.....	16,177.27	1,489.30
				For 800 Amperes, Tin Plated Copper Bus, Add	182.00	
				For 1,200 Amperes, Tin Plated Copper Bus, Add	334.00	
				For NEMA 1 With Gaskets, Add	97.00	
				For NEMA 12, Add	245.00	
				For 20" Cabinet Depth, Add	108.00	
26 24 19 00-0617	EA			800 Amperes, Main Circuit Breaker Section.....	22,775.58	1,489.30
				For 800 Amperes, Tin Plated Copper Bus, Add	182.00	
				For 1,200 Amperes, Tin Plated Copper Bus, Add	334.00	
				For NEMA 1 With Gaskets, Add	97.00	
				For NEMA 12, Add	245.00	
				For 20" Cabinet Depth, Add	108.00	
26 24 19 00-0618	EA			1,200 Amperes, Main Circuit Breaker Section.....	32,807.44	1,685.12
				For 800 Amperes, Tin Plated Copper Bus, Add	182.00	
				For 1,200 Amperes, Tin Plated Copper Bus, Add	334.00	
				For NEMA 1 With Gaskets, Add	97.00	
				For NEMA 12, Add	245.00	
				For 20" Cabinet Depth, Add	108.00	
26 24 19 00-0619				Incoming Fusible Main Disconnect Section <small>(26 24 19 00-0484)</small>		
				Note: Includes structure, fuses, 42 KA bus bracing, 600 A tin plated copper bus, NEMA 1 enclosure, 15" cabinet depth, and 1/4" x 2" tin plated copper horizontal ground bus.		

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0620	EA		200 Amperes, Fusible Main Disconnect Section.....	6,426.25	745.27
			<i>For 800 Amperes, Tin Plated Copper Bus, Add</i>	182.00	
			<i>For 1,200 Amperes, Tin Plated Copper Bus, Add</i>	334.00	
			<i>For NEMA 1 With Gaskets, Add</i>	97.00	
			<i>For NEMA 12, Add</i>	245.00	
			<i>For 20" Cabinet Depth, Add</i>	108.00	
26 24 19 00-0621	EA		400 Amperes, Fusible Main Disconnect Section.....	8,848.66	956.62
			<i>For 800 Amperes, Tin Plated Copper Bus, Add</i>	182.00	
			<i>For 1,200 Amperes, Tin Plated Copper Bus, Add</i>	334.00	
			<i>For NEMA 1 With Gaskets, Add</i>	97.00	
			<i>For NEMA 12, Add</i>	245.00	
			<i>For 20" Cabinet Depth, Add</i>	108.00	
26 24 19 00-0622	EA		600 Amperes, Fusible Main Disconnect Section.....	17,160.18	1,490.53
			<i>For 800 Amperes, Tin Plated Copper Bus, Add</i>	182.00	
			<i>For 1,200 Amperes, Tin Plated Copper Bus, Add</i>	334.00	
			<i>For NEMA 1 With Gaskets, Add</i>	97.00	
			<i>For NEMA 12, Add</i>	245.00	
			<i>For 20" Cabinet Depth, Add</i>	108.00	
26 24 19 00-0623	EA		800 Amperes, Fusible Main Disconnect Section.....	19,866.93	1,490.53
			<i>For 800 Amperes, Tin Plated Copper Bus, Add</i>	182.00	
			<i>For 1,200 Amperes, Tin Plated Copper Bus, Add</i>	334.00	
			<i>For NEMA 1 With Gaskets, Add</i>	97.00	
			<i>For NEMA 12, Add</i>	245.00	
			<i>For 20" Cabinet Depth, Add</i>	108.00	
26 24 19 00-0624	EA		1,200 Amperes, Fusible Main Disconnect Section.....	27,841.91	1,686.65
			<i>For 800 Amperes, Tin Plated Copper Bus, Add</i>	182.00	
			<i>For 1,200 Amperes, Tin Plated Copper Bus, Add</i>	334.00	
			<i>For NEMA 1 With Gaskets, Add</i>	97.00	
			<i>For NEMA 12, Add</i>	245.00	
			<i>For 20" Cabinet Depth, Add</i>	108.00	
26 24 19 00-0625			Circuit Breaker Combination Starters <small>(26 24 19 00-0484)</small>		
26 24 19 00-0626			Class I, Type A <small>(26 24 19 00-0625)</small>		
26 24 19 00-0627	EA		Size 1, Class I, Type A Circuit Breaker Combination Starter	1,206.88	312.25
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	178.04	
26 24 19 00-0628	EA		Size 2, Class I, Type A Circuit Breaker Combination Starter	1,397.86	312.25
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	197.21	
26 24 19 00-0629	EA		Size 3, Class I, Type A Circuit Breaker Combination Starter	2,016.29	443.00
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	265.21	
26 24 19 00-0630	EA		Size 4, Class I, Type A Circuit Breaker Combination Starter	3,232.82	582.99
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	349.59	
26 24 19 00-0631	EA		Size 5, Class I, Type A Circuit Breaker Combination Starter	5,675.44	729.11
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	436.99	
26 24 19 00-0632			Class I, Type B <small>(26 24 19 00-0625)</small>		
26 24 19 00-0633	EA		Size 1, Class I, Type B Circuit Breaker Combination Starter	1,133.21	272.26
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	153.82	
26 24 19 00-0634	EA		Size 2, Class I, Type B Circuit Breaker Combination Starter	1,317.91	272.26
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	173.22	
26 24 19 00-0635	EA		Size 3, Class I, Type B Circuit Breaker Combination Starter	1,921.09	393.79
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	236.65	
26 24 19 00-0636	EA		Size 4, Class I, Type B Circuit Breaker Combination Starter	3,135.71	533.76
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	320.46	
26 24 19 00-0637	EA		Size 5, Class I, Type B Circuit Breaker Combination Starter	5,597.12	681.43
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	413.50	
26 24 19 00-0638			Class I, Type C <small>(26 24 19 00-0625)</small>		
26 24 19 00-0639	EA		Size 1, Class I, Type C Circuit Breaker Combination Starter	1,179.94	252.27
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	139.33	
26 24 19 00-0640	EA		Size 2, Class I, Type C Circuit Breaker Combination Starter	1,378.80	252.27
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	163.64	
26 24 19 00-0641	EA		Size 3, Class I, Type C Circuit Breaker Combination Starter	2,038.01	376.87
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	226.21	
26 24 19 00-0642	EA		Size 4, Class I, Type C Circuit Breaker Combination Starter	3,261.38	521.46
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	312.65	
26 24 19 00-0643	EA		Size 5, Class I, Type C Circuit Breaker Combination Starter	5,710.31	669.13
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	400.58	
26 24 19 00-0644			Class II, Type B <small>(26 24 19 00-0625)</small>		
26 24 19 00-0645	EA		Size 1, Class II, Type B Circuit Breaker Combination Starter	1,230.60	373.78
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	211.29	
26 24 19 00-0646	EA		Size 2, Class II, Type B Circuit Breaker Combination Starter	1,662.78	373.78
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	235.92	
26 24 19 00-0647	EA		Size 3, Class II, Type B Circuit Breaker Combination Starter	2,332.01	498.38
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	298.10	
26 24 19 00-0648	EA		Size 4, Class II, Type B Circuit Breaker Combination Starter	3,738.85	638.36
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	384.56	
26 24 19 00-0649	EA		Size 5, Class II, Type B Circuit Breaker Combination Starter	6,592.73	779.87
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	468.97	



Electrical	26	26
Low-Voltage Electrical Distribution	26 20	
Switchboards and Panelboards	26 24	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0650 Class II, Type C <small>(26 24 19 00-0625)</small>		
26 24 19 00-0651 EA Size 1, Class II, Type C Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,494.42 202.40	353.79
26 24 19 00-0652 EA Size 2, Class II, Type C Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,708.18 221.01	353.79
26 24 19 00-0653 EA Size 3, Class II, Type C Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,456.11 289.14	483.00
26 24 19 00-0654 EA Size 4, Class II, Type C Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,853.24 373.35	622.98
26 24 19 00-0655 EA Size 5, Class II, Type C Circuit Breaker Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,727.87 463.32	769.11
26 24 19 00-0656 Fused Disconnect Combination Starter <small>(26 24 19 00-0484)</small>		
26 24 19 00-0657 Class I, Type A <small>(26 24 19 00-0656)</small>		
26 24 19 00-0658 EA Size 1, Class I, Type A Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,109.05 173.22	287.64
26 24 19 00-0659 EA Size 2, Class I, Type A Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,653.72 235.92	393.79
26 24 19 00-0660 EA Size 3, Class I, Type A Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,578.94 307.64	512.22
26 24 19 00-0661 EA Size 4, Class I, Type A Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,536.17 432.08	718.34
26 24 19 00-0662 EA Size 5, Class I, Type A Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,042.47 549.36	915.24
26 24 19 00-0663 Class I, Type B <small>(26 24 19 00-0656)</small>		
26 24 19 00-0664 EA Size 1, Class I, Type B Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,112.83 153.82	256.88
26 24 19 00-0665 EA Size 2, Class I, Type B Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,501.78 211.29	352.25
26 24 19 00-0666 EA Size 3, Class I, Type B Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,200.07 282.76	470.69
26 24 19 00-0667 EA Size 4, Class I, Type B Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,633.37 409.10	679.90
26 24 19 00-0668 EA Size 5, Class I, Type B Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,118.26 519.67	864.48
26 24 19 00-0669 Class I, Type C <small>(26 24 19 00-0656)</small>		
26 24 19 00-0670 EA Size 1, Class I, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,163.97 144.03	239.96
26 24 19 00-0671 EA Size 2, Class I, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,567.28 197.21	326.10
26 24 19 00-0672 EA Size 3, Class I, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,367.40 274.68	453.77
26 24 19 00-0673 EA Size 4, Class I, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,799.22 400.58	669.13
26 24 19 00-0674 EA Size 5, Class I, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,803.38 512.74	855.25
26 24 19 00-0675 Class II, Type B <small>(26 24 19 00-0656)</small>		
26 24 19 00-0676 EA Size 1, Class II, Type B Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,419.88 216.04	359.94
26 24 19 00-0677 EA Size 2, Class II, Type B Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,826.77 268.92	449.16
26 24 19 00-0678 EA Size 3, Class II, Type B Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,616.83 346.44	578.37
26 24 19 00-0679 EA Size 4, Class II, Type B Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,190.76 468.97	779.87
26 24 19 00-0680 EA Size 5, Class II, Type B Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7,023.46 582.66	973.69
26 24 19 00-0681 Class II, Type C <small>(26 24 19 00-0656)</small>		
26 24 19 00-0682 EA Size 1, Class II, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,458.18 202.40	338.41
26 24 19 00-0683 EA Size 2, Class II, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,891.73 254.67	424.55
26 24 19 00-0684 EA Size 3, Class II, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,751.09 331.51	552.22
26 24 19 00-0685 EA Size 4, Class II, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,337.58 457.80	761.42
26 24 19 00-0686 EA Size 5, Class II, Type C Fused Disconnect Combination Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7,160.60 565.52	942.92

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
26 24 19 00-0687		Space Complete With Bus And Hardware <small>(26 24 19 00-0484)</small>			
26 24 19 00-0688		Circuit Breaker Type <small>(26 24 19 00-0687)</small>			
26 24 19 00-0689	EA	Circuit Breaker Type, Size 1 Space Complete With Bus And Hardware.....	348.83		104.60
26 24 19 00-0690	EA	Circuit Breaker Type, Size 2 Space Complete With Bus And Hardware.....	348.83		104.60
26 24 19 00-0691	EA	Circuit Breaker Type, Size 3 Space Complete With Bus And Hardware.....	517.34		152.29
26 24 19 00-0692	EA	Circuit Breaker Type, Size 4 Space Complete With Bus And Hardware.....	621.83		199.97
26 24 19 00-0693	EA	Circuit Breaker Type, Size 5 Space Complete With Bus And Hardware.....	1,030.97		304.57
26 24 19 00-0694		Fused Disconnect Type <small>(26 24 19 00-0687)</small>			
26 24 19 00-0695	EA	Fused Disconnect Type, Size 1 Space Complete With Bus And Hardware.....	348.83		104.60
26 24 19 00-0696	EA	Fused Disconnect Type, Size 2 Space Complete With Bus And Hardware.....	468.07		152.29
26 24 19 00-0697	EA	Fused Disconnect Type, Size 3 Space Complete With Bus And Hardware.....	645.94		199.97
26 24 19 00-0698	EA	Fused Disconnect Type, Size 4 Space Complete With Bus And Hardware.....	1,098.26		304.57
26 24 19 00-0699	EA	Fused Disconnect Type, Size 5 Space Complete With Bus And Hardware.....	1,538.35		443.00
26 24 19 00-0700		Blank Space For Future Expansion <small>(26 24 19 00-0687)</small>			
		Note: Factory modified no labor costs.			
26 24 19 00-0701	EA	Blank Space For Future Expansion, Size 1 Factory Modified, No Crew Costs.....	140.40		
26 24 19 00-0702	EA	Blank Space For Future Expansion, Size 2 Factory Modified, No Crew Costs.....	140.40		
26 24 19 00-0703	EA	Blank Space For Future Expansion, Size 3 Factory Modified, No Crew Costs.....	212.86		
26 24 19 00-0704	EA	Blank Space For Future Expansion, Size 4 Factory Modified, No Crew Costs.....	212.86		
26 24 19 00-0705	EA	Blank Space For Future Expansion, Size 5 Factory Modified, No Crew Costs.....	423.46		
26 24 19 00-0706		Structure Combination Of Starters To 72" High <small>(26 24 19 00-0687)</small>			
26 24 19 00-0707	EA	Structure Combination Of Starters To 72" High.....	3,901.56		809.56
26 24 19 00-0708		Motor Control Center Basic Distribution Section <small>(26 24 19 00-0484)</small>			
26 24 19 00-0709	EA	20" Wide Basic Section With Vertical Wireway.....	6,834.95		2,108.28
		For 20" Cabinet Depth, Add	108.00		
		For 800 Amperes, Tin Plated Copper Bus, Add	182.00		
		For 1,200 Amperes, Tin Plated Copper Bus, Add	334.00		
		For 1,600 Amperes, Tin Plated Copper Bus, Add	402.00		
		For 2,000 Amperes, Tin Plated Copper Bus, Add	506.00		
		For NEMA 1 With Gasket, Add	97.00		
		For NEMA 12, Add	245.00		
		For 600 Amperes, Tin Plated Copper Vertical, Add	210.00		
26 24 19 00-0710	EA	25" To 35" Wide Basic Section (No Vertical Wireway).....	6,834.95		2,108.28
		For 20" Cabinet Depth, Add	108.00		
		For 800 Amperes, Tin Plated Copper Bus, Add	182.00		
		For 1,200 Amperes, Tin Plated Copper Bus, Add	334.00		
		For 1,600 Amperes, Tin Plated Copper Bus, Add	402.00		
		For 2,000 Amperes, Tin Plated Copper Bus, Add	506.00		
		For NEMA 1 With Gasket, Add	97.00		
		For NEMA 12, Add	245.00		
		For 600 Amperes, Tin Plated Copper Vertical, Add	210.00		
26 24 19 00-0711	EA	25" Wide Basic Section With 9" Wide Vertical Wireway.....	7,451.93		2,108.28
		For 20" Cabinet Depth, Add	108.00		
		For 800 Amperes, Tin Plated Copper Bus, Add	182.00		
		For 1,200 Amperes, Tin Plated Copper Bus, Add	334.00		
		For 1,600 Amperes, Tin Plated Copper Bus, Add	402.00		
		For 2,000 Amperes, Tin Plated Copper Bus, Add	506.00		
		For NEMA 1 With Gasket, Add	97.00		
		For NEMA 12, Add	245.00		
		For 600 Amperes, Tin Plated Copper Vertical, Add	210.00		
26 24 19 00-0712	EA	Corner Section.....	7,451.93		2,108.28
		For 20" Cabinet Depth, Add	108.00		
		For 800 Amperes, Tin Plated Copper Bus, Add	182.00		
		For 1,200 Amperes, Tin Plated Copper Bus, Add	334.00		
		For 1,600 Amperes, Tin Plated Copper Bus, Add	402.00		
		For 2,000 Amperes, Tin Plated Copper Bus, Add	506.00		
		For NEMA 1 With Gasket, Add	97.00		
		For NEMA 12, Add	245.00		
		For 600 Amperes, Tin Plated Copper Vertical, Add	210.00		
26 24 19 00-0713		Motor Control Center Starters With HMCP Circuit Breaker <small>(26 24 19 00-0484)</small>			
		Note: Includes door, unit support pan, heater elements, and NEMA 1 with gasket, or NEMA 12 enclosure. Line voltages of 208 V, 240 V, 480 V, and 600 V.			
26 24 19 00-0714		FVNR Starters With HMCP Circuit Breaker <small>(26 24 19 00-0713)</small>			
26 24 19 00-0715	EA	Class 1, Type A, Size 1 FVNR Starters With HMCP Circuit Breaker.....	1,665.71		296.11
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	177.65		
26 24 19 00-0716	EA	Class 1, Type A, Size 2 FVNR Starters With HMCP Circuit Breaker.....	1,853.54		328.41
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	197.04		
26 24 19 00-0717	EA	Class 1, Type A, Size 3 FVNR Starters With HMCP Circuit Breaker.....	3,158.55		441.47
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	264.91		
26 24 19 00-0718	EA	Class 1, Type A, Size 4 FVNR Starters With HMCP Circuit Breaker.....	4,556.32		582.07
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	349.28		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0719	EA		Class 1, Type A, Size 5 FVNR Starters With HMCP Circuit Breaker.....	10,129.35	727.42
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	436.50	
26 24 19 00-0720	EA		Class 1, Type A, Size 6 FVNR Starters With HMCP Circuit Breaker.....	23,273.10	727.42
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	436.50	
26 24 19 00-0721	EA		Class 1, Type B, Size 1 FVNR Starters With HMCP Circuit Breaker.....	1,663.32	256.12
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	153.66	
26 24 19 00-0722	EA		Class 1, Type B, Size 2 FVNR Starters With HMCP Circuit Breaker.....	1,875.76	288.41
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	173.04	
26 24 19 00-0723	EA		Class 1, Type B, Size 3 FVNR Starters With HMCP Circuit Breaker.....	3,204.59	393.79
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	236.26	
26 24 19 00-0724	EA		Class 1, Type B, Size 4 FVNR Starters With HMCP Circuit Breaker.....	4,538.30	533.76
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	320.28	
26 24 19 00-0725	EA		Class 1, Type B, Size 5 FVNR Starters With HMCP Circuit Breaker.....	10,131.31	689.12
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	413.50	
26 24 19 00-0726	EA		Class 1, Type B, Size 6 FVNR Starters With HMCP Circuit Breaker.....	23,416.49	689.12
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	413.50	
26 24 19 00-0727			Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker <small>(26 24 19 00-0713)</small>		
26 24 19 00-0728	EA		Class 1, Type A, Size 1 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker.....	2,623.33	370.56
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	222.29	
26 24 19 00-0729	EA		Class 1, Type A, Size 2 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker.....	3,199.26	409.94
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	245.98	
26 24 19 00-0730	EA		Class 1, Type A, Size 3 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker.....	5,218.89	550.99
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	330.56	
26 24 19 00-0731	EA		Class 1, Type A, Size 4 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker.....	8,883.95	728.34
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	436.99	
26 24 19 00-0732	EA		Class 1, Type A, Size 5 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker.....	15,870.41	911.24
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	546.76	
26 24 19 00-0733	EA		Class 1, Type B, Size 1 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker.....	2,640.18	319.95
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	191.96	
26 24 19 00-0734	EA		Class 1, Type B, Size 2 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker.....	3,242.34	360.71
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	216.45	
26 24 19 00-0735	EA		Class 1, Type B, Size 3 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker.....	5,283.91	493.00
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	295.81	
26 24 19 00-0736	EA		Class 1, Type B, Size 4 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker.....	8,880.51	667.58
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	400.58	
26 24 19 00-0737	EA		Class 1, Type B, Size 5 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker.....	15,890.28	862.17
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	517.34	
26 24 19 00-0738			Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker <small>(26 24 19 00-0713)</small>		
26 24 19 00-0739	EA		Class 1, Type A, Size 1 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker.....	2,859.22	370.56
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	222.29	
26 24 19 00-0740	EA		Class 1, Type A, Size 2 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker.....	4,018.57	409.94
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	245.98	
26 24 19 00-0741	EA		Class 1, Type A, Size 3 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker.....	7,488.13	550.99
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	330.56	
26 24 19 00-0742	EA		Class 1, Type A, Size 4 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker.....	10,187.62	728.34
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	436.99	
26 24 19 00-0743	EA		Class 1, Type A, Size 5 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker.....	20,187.15	911.24
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	546.76	
26 24 19 00-0744	EA		Class 1, Type B, Size 1 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker.....	2,876.07	319.95
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	191.96	
26 24 19 00-0745	EA		Class 1, Type B, Size 2 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker.....	4,061.66	360.71
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	216.45	
26 24 19 00-0746	EA		Class 1, Type B, Size 3 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker.....	7,553.14	493.00
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	295.81	
26 24 19 00-0747	EA		Class 1, Type B, Size 4 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker.....	10,184.18	667.58
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	400.58	
26 24 19 00-0748	EA		Class 1, Type B, Size 5 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker.....	20,207.02	862.17
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	517.34	
26 24 19 00-0749			Motor Control Center Starters With Fusible Disconnect <small>(26 24 19 00-0484)</small>		
			Note: Includes fuses, door, unit support pan, heater elements, and NEMA 1 with gasket, or NEMA 12 enclosure. Line voltages of 208 V, 240 V, 480 V, and 600 V.		
26 24 19 00-0750			FVNR Starters With Fusible Disconnect <small>(26 24 19 00-0749)</small>		
26 24 19 00-0751	EA		Class 1, Type A, Size 1 FVNR Starters With Fusible Disconnect.....	1,365.27	288.72
26 24 19 00-0752	EA		Class 1, Type A, Size 2 FVNR Starters With Fusible Disconnect.....	1,786.53	392.39
26 24 19 00-0753	EA		Class 1, Type A, Size 3 FVNR Starters With Fusible Disconnect.....	2,917.71	511.30
26 24 19 00-0754	EA		Class 1, Type A, Size 4 FVNR Starters With Fusible Disconnect.....	4,859.06	720.20
26 24 19 00-0755	EA		Class 1, Type A, Size 5 FVNR Starters With Fusible Disconnect.....	9,535.28	915.55
26 24 19 00-0756	EA		Class 1, Type A, Size 6 FVNR Starters With Fusible Disconnect.....	23,569.01	915.55
26 24 19 00-0757	EA		Class 1, Type B, Size 1 FVNR Starters With Fusible Disconnect.....	1,376.45	255.96
26 24 19 00-0758	EA		Class 1, Type B, Size 2 FVNR Starters With Fusible Disconnect.....	1,806.98	351.48
26 24 19 00-0759	EA		Class 1, Type B, Size 3 FVNR Starters With Fusible Disconnect.....	2,979.02	471.31
26 24 19 00-0760	EA		Class 1, Type B, Size 4 FVNR Starters With Fusible Disconnect.....	4,861.09	681.89
26 24 19 00-0761	EA		Class 1, Type B, Size 5 FVNR Starters With Fusible Disconnect.....	9,514.93	866.17
26 24 19 00-0762	EA		Class 1, Type B, Size 6 FVNR Starters With Fusible Disconnect.....	23,690.19	866.17

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0763 Two Speed 2-Winding (TS2W) With Fusible Disconnect <small>(26 24 19 00-0749)</small>		
26 24 19 00-0764 EA Class 1, Type A, Size 1 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	2,293.85	361.48
26 24 19 00-0765 EA Class 1, Type A, Size 2 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	3,190.48	490.54
26 24 19 00-0766 EA Class 1, Type A, Size 3 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	4,888.24	638.82
26 24 19 00-0767 EA Class 1, Type A, Size 4 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	10,059.91	902.77
26 24 19 00-0768 EA Class 1, Type A, Size 5 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	16,190.70	1,056.44
26 24 19 00-0769 EA Class 1, Type B, Size 1 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	2,327.77	319.95
26 24 19 00-0770 EA Class 1, Type B, Size 2 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	3,228.99	439.01
26 24 19 00-0771 EA Class 1, Type B, Size 3 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	4,971.12	589.75
26 24 19 00-0772 EA Class 1, Type B, Size 4 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	10,074.00	850.78
26 24 19 00-0773 EA Class 1, Type B, Size 5 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	16,188.21	996.30
26 24 19 00-0774 Two Speed 1-Winding (TS1W) With Fusible Disconnect <small>(26 24 19 00-0749)</small>		
26 24 19 00-0775 EA Class 1, Type A, Size 1 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	2,649.25	361.48
26 24 19 00-0776 EA Class 1, Type A, Size 2 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	4,022.37	490.54
26 24 19 00-0777 EA Class 1, Type A, Size 3 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	7,181.06	638.82
26 24 19 00-0778 EA Class 1, Type A, Size 4 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	10,537.97	902.77
26 24 19 00-0779 EA Class 1, Type A, Size 5 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	19,629.94	1,056.44
26 24 19 00-0780 EA Class 1, Type B, Size 1 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	2,684.22	319.95
26 24 19 00-0781 EA Class 1, Type B, Size 2 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	4,060.89	439.01
26 24 19 00-0782 EA Class 1, Type B, Size 3 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	7,263.94	589.75
26 24 19 00-0783 EA Class 1, Type B, Size 4 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	10,552.06	850.78
26 24 19 00-0784 EA Class 1, Type B, Size 5 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	19,627.45	996.30
26 24 19 00-0785 Tin Plated Copper Bus Bar And Ground Bus Bar Splice Kit <small>(26 24 19 00-0484)</small>		
Note: Per section. Labor is included in basic distribution section.		
26 24 19 00-0786 EA 600 Amperes, Horizontal Tin Plated Copper Bus Kit.....	277.54	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	11.55	
26 24 19 00-0787 EA 800 Amperes, Horizontal Tin Plated Copper Bus Kit.....	338.35	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	11.55	
26 24 19 00-0788 EA 1,200 Amperes, Horizontal Tin Plated Copper Bus Kit.....	406.86	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	13.86	
26 24 19 00-0789 EA 1,600 Amperes, Horizontal Tin Plated Copper Bus Kit.....	526.37	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	13.86	
26 24 19 00-0790 EA 2,000 Amperes, Horizontal Tin Plated Copper Bus Kit.....	877.93	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	16.17	
26 24 19 00-0791 EA 1/4" x 2" Horizontal Tin Plated Copper Ground Bus Kit.....	160.80	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	9.24	
26 24 19 00-0792 Disconnect Switch For Motor Control Centers <small>(26 24 19 00-0484)</small>		
26 24 19 00-0793 3 Pole Circuit Breaker Disconnect For Motor Control Center <small>(26 24 19 00-0792)</small>		
Note: Includes door, unit support pan, inverse time (Thermal Magnetic) circuit breaker, and NEMA 1, NEMA 1 with gasket, or NEMA 12 enclosure. Class 1 type A (no starters).		
26 24 19 00-0794 EA 150 Amperes Rating, 15 To 100 Amperes Trip Range, 3 Pole Circuit Breaker Disconnect.....	1,011.81	222.27
26 24 19 00-0795 EA 150 Amperes Rating, 125 To 150 Amperes Trip Range, 3 Pole Circuit Breaker Disconnect.....	1,688.47	246.12
26 24 19 00-0796 EA 225 Amperes Rating, 70 To 225 Amperes Trip Range, 3 Pole Circuit Breaker Disconnect.....	2,077.88	331.49
26 24 19 00-0797 EA 400 Amperes Rating, 125 To 400 Amperes Trip Range, 3 Pole Circuit Breaker Disconnect.....	3,382.70	436.85
26 24 19 00-0798 EA 600 Amperes Rating, 300 To 600 Amperes Trip Range, 3 Pole Circuit Breaker Disconnect.....	5,724.22	546.06
26 24 19 00-0799 EA 800 Amperes Rating, 400 To 800 Amperes Trip Range, 3 Pole Circuit Breaker Disconnect.....	6,485.67	546.06
26 24 19 00-0800 EA 1,200 Amperes Rating, 600 To 1,200 Amperes Trip Range, 3 Pole Circuit Breaker Disconnect.....	13,107.62	683.73
26 24 19 00-0801 Fusible Disconnect Switch For Motor Control Center <small>(26 24 19 00-0792)</small>		
Note: Includes door, unit support pan, fuses and NEMA 1, NEMA 1 with gasket, or NEMA 12 enclosure. Class 1 type A (no starters).		
26 24 19 00-0802 EA 30 Amperes Switch Rating, Fusible Disconnect Switch With 30 Amperes Fuse Clips.....	951.17	216.12
26 24 19 00-0803 EA 60 Amperes Switch Rating, Fusible Disconnect Switch With 60 Amperes Fuse Clips.....	1,139.58	294.56
26 24 19 00-0804 EA 100 Amperes Switch Rating, Fusible Disconnect Switch With 100 Amperes Fuse Clips.....	1,549.46	376.87
26 24 19 00-0805 EA 200 Amperes Switch Rating, Fusible Disconnect Switch With 200 Amperes Fuse Clips.....	2,814.46	539.91
26 24 19 00-0806 EA 400 Amperes Switch Rating, Fusible Disconnect Switch With 400 Amperes Fuse Clips.....	4,875.55	686.66
26 24 19 00-0807 EA 600 Amperes Switch Rating, Fusible Disconnect Switch With 600 Amperes Fuse Clips.....	10,788.46	686.66
26 24 19 00-0808 EA 800 Amperes Switch Rating, Fusible Disconnect Switch With 800 Amperes Fuse Clips.....	13,341.28	858.33
26 24 19 00-0809 EA 1,200 Amperes Switch Rating, Fusible Disconnect Switch With 1,200 Amperes Fuse Clips.....	19,530.96	858.33
26 24 19 00-0810 Control Circuit Transformer <small>(26 24 19 00-0484)</small>		
26 24 19 00-0811 EA Control Circuit Transformer, Size 1 Factory Installed.....	74.90	
26 24 19 00-0812 EA Control Circuit Transformer, Size 2 Factory Installed.....	74.90	
26 24 19 00-0813 EA Control Circuit Transformer, Size 3 Factory Installed.....	144.26	
26 24 19 00-0814 EA Control Circuit Transformer, Size 4 Factory Installed.....	144.26	
26 24 19 00-0815 EA Control Circuit Transformer, Size 5 Factory Installed.....	200.41	
26 24 19 00-0816 EA Control Circuit Fuse And Holder Small Dim, Dual Element Time Delay.....	64.20	17.40
26 24 19 00-0817 Cover Mounted Control Devices <small>(26 24 19 00-0484)</small>		
26 24 19 00-0818 EA Control Device, 2 Unit Push Button Station Cover Mounted.....	138.99	30.76
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	19.23	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0819 EA Control Device, 2-3 Unit Selector Switch Cover Mounted..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	157.80 24.04	30.76
26 24 19 00-0820 EA Control Device, Pilot Light Cover Mounted <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	128.46 14.40	30.76
26 24 19 00-0821 EA Control Device, Hand-Off-Auto Switch Cover Mounted With Pilot Light <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	365.49 63.04	104.60
26 24 19 00-0822 EA Auxiliary Contact Add Per Starter <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	402.14 23.91	39.84
26 24 19 00-0823 Extra Interlocks (26 24 19 00-0484) Note: Per contact.		
26 24 19 00-0824 EA Extra Interlocks, Class I, Type A Per Contact..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	91.86 14.40	19.99
26 24 19 00-0825 EA Extra Interlocks, Class I, Type B Per Contact..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	123.17 14.40	19.99
26 24 19 00-0826 EA Extra Interlocks, Class I, Type C Per Contact..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	134.00 12.02	19.99
26 24 19 00-0827 EA Extra Interlocks, Class II, Type B Per Contact..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	119.72 9.62	19.99
26 24 19 00-0828 EA Extra Interlocks, Class II, Type C Per Contact..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	124.38 7.25	19.99
26 24 19 00-0829 Special Cabinet Provisions (26 24 19 00-0484)		
26 24 19 00-0830 EA Provisions For Bus Duct Entrance Special Cabinet Provisions	937.67	
26 24 19 00-0831 Nameplate Requirements (26 24 19 00-0484)		
26 24 19 00-0832 EA Special Cabinet Nameplate Requirements	33.29	
26 24 19 00-0833 Auxiliary Relays (26 24 19 00-0484)		
26 24 19 00-0834 EA Industrial Control Relay, 10 Amperes, Class A600 With 2 Contacts..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	200.31 23.10	38.51
26 24 19 00-0835 EA Timing Relay, Solid State, DPDT 0.1-10 Sec Variable, Off-Delay <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	190.29 23.10	34.65
26 24 19 00-0836 EA General Purpose Control Relay, 240 Volt AC, 10 Amperes, With Base <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	115.54 23.10	34.65
26 24 19 00-0837 Motor Control Center Accessories (26 24 19 00-0484)		
26 24 19 00-0838 Lighting Transformer With Circuit Breaker (26 24 19 00-0837) Note: For 240 V, 480 V, or 600 V primary. Includes door, unit support pan, and NEMA 1, NEMA 1 with gasket, or NEMA 12 enclosure for MCC only.		
26 24 19 00-0839 EA 1 Phase, 5 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker.....	5,646.70	491.30
26 24 19 00-0840 EA 1 Phase, 7.5 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker.....	5,870.95	510.96
26 24 19 00-0841 EA 1 Phase, 10 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker.....	6,419.63	550.26
26 24 19 00-0842 EA 1 Phase, 15 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker.....	8,024.67	589.57
26 24 19 00-0843 EA 1 Phase, 25 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker.....	10,716.92	628.87
26 24 19 00-0844 EA 1 Phase, 37.5 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker.....	13,135.87	707.48
26 24 19 00-0845 EA 1 Phase, 50 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker.....	17,196.21	786.09
26 24 19 00-0846 EA 3 Phase, 10 KVA, 120/208 Volt Secondary Lighting Transformer With Circuit Breaker.....	10,128.19	648.53
26 24 19 00-0847 EA 3 Phase, 15 KVA, 120/208 Volt Secondary Lighting Transformer With Circuit Breaker.....	11,005.03	707.48
26 24 19 00-0848 EA 3 Phase, 25 KVA, 120/208 Volt Secondary Lighting Transformer With Circuit Breaker.....	12,576.43	786.09
26 24 19 00-0849 EA 3 Phase, 30 KVA, 120/208 Volt Secondary Lighting Transformer With Circuit Breaker.....	13,355.91	864.70
26 24 19 00-0850 EA 3 Phase, 37.5 KVA, 120/208 Volt Secondary Lighting Transformer With Circuit Breaker.....	16,069.61	943.31
26 24 19 00-0851 EA 3 Phase, 45 KVA, 120/208 Volt Secondary Lighting Transformer With Circuit Breaker.....	16,602.49	1,021.92
26 24 19 00-0852 Bolt-On Lighting Panel (26 24 19 00-0837) Note: Includes door, T-handle, unit support pan, neutral bar (10 KA IC RMS), and NEMA 1, NEMA 1 with gasket, or NEMA 12 enclosure. For MCC only.		
26 24 19 00-0853 EA 18 Circuit Bolt-On Lighting Panel, MLO, 1 Phase, 3 Wire, 120/240 Volt.....	2,618.17	800.49
26 24 19 00-0854 EA 30 Circuit Bolt-On Lighting Panel, MLO, 1 Phase, 3 Wire, 120/240 Volt.....	4,139.03	1,393.31
26 24 19 00-0855 EA 42 Circuit Bolt-On Lighting Panel, MLO, 1 Phase, 3 Wire, 120/240 Volt.....	5,513.63	1,885.08
26 24 19 00-0856 EA 18 Circuit Bolt-On Lighting Panel, MLO, 3 Phase, 4 Wire, 120/208 Volt.....	2,749.42	866.17
26 24 19 00-0857 EA 30 Circuit Bolt-On Lighting Panel, MLO, 3 Phase, 4 Wire, 120/208 Volt.....	4,079.74	1,363.63
26 24 19 00-0858 EA 42 Circuit Bolt-On Lighting Panel, MLO, 3 Phase, 4 Wire, 120/208 Volt.....	5,749.26	2,002.91
26 24 19 00-0859 EA 18 Circuit Bolt-On Lighting Panel, MCB, 1 Phase, 3 Wire, 120/240 Volt.....	4,253.43	928.47
26 24 19 00-0860 EA 30 Circuit Bolt-On Lighting Panel, MCB, 1 Phase, 3 Wire, 120/240 Volt.....	5,762.92	1,490.53
26 24 19 00-0861 EA 42 Circuit Bolt-On Lighting Panel, MCB, 1 Phase, 3 Wire, 120/240 Volt.....	7,255.80	2,002.91
26 24 19 00-0862 EA 18 Circuit Bolt-On Lighting Panel, MCB, 3 Phase, 4 Wire, 120/208 Volt.....	4,399.46	1,001.38
26 24 19 00-0863 EA 30 Circuit Bolt-On Lighting Panel, MCB, 3 Phase, 4 Wire, 120/208 Volt.....	5,762.92	1,490.53
26 24 19 00-0864 EA 42 Circuit Bolt-On Lighting Panel, MCB, 3 Phase, 4 Wire, 120/208 Volt.....	7,385.01	2,067.52
26 24 19 00-0865 Factory Installed Bolt-On Branch Circuit Breaker (26 24 19 00-0837) Note: For MCC lighting panel only.		
26 24 19 00-0866 EA 15 To 30 Amperes, 1 Pole, Bolt-On Branch Circuit Breaker	22.75	
26 24 19 00-0867 EA 15 To 30 Amperes, 1 Pole (GFI) Bolt-On Branch Circuit Breaker.....	288.98	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0868	EA		15 To 50 Amperes, 2 Pole, Bolt-On Branch Circuit Breaker	44.47	
26 24 19 00-0869	EA		60 To 100 Amperes, 2 Pole, Bolt-On Branch Circuit Breaker	102.38	
26 24 19 00-0870	EA		15 To 50 Amperes, 3 Pole, Bolt-On Branch Circuit Breaker	119.96	
26 24 19 00-0871	EA		60 To 100 Amperes, 3 Pole, Bolt-On Branch Circuit Breaker	182.02	
26 24 19 00-0872			Blank Unit Door (BUD) <small>(26 24 19 00-0837)</small>		
			Note: With NEMA 1, NEMA 1 with gasket, or NEMA 12 enclosure. Factory installed.		
26 24 19 00-0873	EA		6" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure	77.06	
26 24 19 00-0874	EA		12" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure	92.47	
26 24 19 00-0875	EA		18" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure	138.71	
26 24 19 00-0876	EA		24" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure	184.95	
26 24 19 00-0877	EA		30" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure	277.42	
26 24 19 00-0878	EA		48" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure	323.65	
26 24 19 00-0879	EA		72" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure	369.89	
26 25 Enclosed Bus Assemblies			<small>(26 20)</small>		
26 25 13 Low-Voltage Busways			<small>(26 25)</small>		
26 25 13 00-0001			Plug-In Bus Duct <small>(26 25 13)</small>		
			Note: Based on an average of 100' horizontal run with a 15' maximum mounting height. Each 100' of bus duct includes 2 elbows, 1 end cap, and switchboard stub. Excludes hangers with anchors and hardware support.		
26 25 13 00-0002			600 Volt, 3-Phase, 3-Wire, Copper Conductors <small>(26 25 13 00-0001)</small>		
26 25 13 00-0003	LF		225 Amperes, Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....	287.52	46.15
			For Up To 25, Add	71.88	
			For >25 To 50, Add	43.13	
			For >50 To 100, Add	21.56	
26 25 13 00-0004	LF		400 Amperes, Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....	397.97	46.15
			For Up To 25, Add	99.49	
			For >25 To 50, Add	59.70	
			For >50 To 100, Add	29.85	
26 25 13 00-0005	LF		600 Amperes, Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....	500.48	61.53
			For Up To 25, Add	125.12	
			For >25 To 50, Add	75.07	
			For >50 To 100, Add	37.54	
26 25 13 00-0006	LF		800 Amperes, Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....	679.51	61.53
			For Up To 25, Add	169.88	
			For >25 To 50, Add	101.93	
			For >50 To 100, Add	50.96	
26 25 13 00-0007	LF		1,000 Amperes, Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....	717.59	76.91
			For Up To 25, Add	179.40	
			For >25 To 50, Add	107.64	
			For >50 To 100, Add	53.82	
26 25 13 00-0008	LF		1,350 Amperes, Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....	985.75	76.91
			For Up To 25, Add	246.44	
			For >25 To 50, Add	147.86	
			For >50 To 100, Add	73.93	
26 25 13 00-0009	LF		1,600 Amperes, Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....	1,146.72	80.76
			For Up To 25, Add	286.68	
			For >25 To 50, Add	172.01	
			For >50 To 100, Add	86.00	
26 25 13 00-0010	LF		2,000 Amperes Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....	1,385.74	83.06
			For Up To 25, Add	346.44	
			For >25 To 50, Add	207.86	
			For >50 To 100, Add	103.93	
26 25 13 00-0011	LF		2,500 Amperes Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....	1,700.03	87.68
			For Up To 25, Add	425.01	
			For >25 To 50, Add	255.00	
			For >50 To 100, Add	127.50	
26 25 13 00-0012	LF		3,000 Amperes Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....	1,963.68	102.29
			For Up To 25, Add	490.92	
			For >25 To 50, Add	294.55	
			For >50 To 100, Add	147.28	
26 25 13 00-0013	LF		4,000 Amperes Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....	2,267.78	111.52
			For Up To 25, Add	566.95	
			For >25 To 50, Add	340.17	
			For >50 To 100, Add	170.08	
26 25 13 00-0014			277/480 Volt, 3-Phase, 4-Wire, 100% Neutral, Copper Conductors <small>(26 25 13 00-0001)</small>		
26 25 13 00-0015	LF		225 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors.....	448.64	46.15
			For Up To 25, Add	112.16	
			For >25 To 50, Add	67.30	
			For >50 To 100, Add	33.65	
26 25 13 00-0016	LF		400 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors.....	638.75	46.15
			For Up To 25, Add	159.69	
			For >25 To 50, Add	95.81	
			For >50 To 100, Add	47.91	
26 25 13 00-0017	LF		600 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors.....	722.19	61.53
			For Up To 25, Add	180.55	
			For >25 To 50, Add	108.33	
			For >50 To 100, Add	54.16	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 25 13 00-0018 LF 800 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors	911.95	61.53
For Up To 25, Add	227.99	
For >25 To 50, Add	136.79	
For >50 To 100, Add	68.40	
26 25 13 00-0019 LF 1,000 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors	1,107.28	76.91
For Up To 25, Add	276.82	
For >25 To 50, Add	166.09	
For >50 To 100, Add	83.05	
26 25 13 00-0020 LF 1,350 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors	1,423.78	76.91
For Up To 25, Add	355.95	
For >25 To 50, Add	213.57	
For >50 To 100, Add	106.78	
26 25 13 00-0021 LF 1,600 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors	1,832.96	79.68
For Up To 25, Add	458.24	
For >25 To 50, Add	274.94	
For >50 To 100, Add	137.47	
26 25 13 00-0022 LF 2,000 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors	2,198.78	83.06
For Up To 25, Add	549.70	
For >25 To 50, Add	329.82	
For >50 To 100, Add	164.91	
26 25 13 00-0023 LF 2,500 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors	2,716.42	86.91
For Up To 25, Add	679.11	
For >25 To 50, Add	407.46	
For >50 To 100, Add	203.73	
26 25 13 00-0024 LF 3,000 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors	3,136.46	102.29
For Up To 25, Add	784.12	
For >25 To 50, Add	470.47	
For >50 To 100, Add	235.23	
26 25 13 00-0025 LF 4,000 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors	3,630.93	111.52
For Up To 25, Add	907.73	
For >25 To 50, Add	544.64	
For >50 To 100, Add	272.32	
26 25 13 00-0026 Cable Tap Boxes (26 25 13 00-0001)		
26 25 13 00-0027 600 Volt, 3-Phase, 3-Wire, Copper Conductors (26 25 13 00-0026)		
26 25 13 00-0028 EA 225 Amperes Cable Tap Box, 600 Volt, 3 Phase, 3 Wire	2,244.81	215.35
26 25 13 00-0029 EA 400 Amperes Cable Tap Box, 600 Volt, 3 Phase, 3 Wire	2,340.31	215.35
26 25 13 00-0030 EA 600 Amperes Cable Tap Box, 600 Volt, 3 Phase, 3 Wire	2,542.57	292.26
26 25 13 00-0031 EA 800 Amperes Cable Tap Box, 600 Volt, 3 Phase, 3 Wire	2,719.67	292.26
26 25 13 00-0032 EA 1,000 Amperes Cable Tap Box, 600 Volt, 3 Phase, 3 Wire	2,926.82	384.55
26 25 13 00-0033 EA 1,350 Amperes Cable Tap Box, 600 Volt, 3 Phase, 3 Wire	3,210.38	384.55
26 25 13 00-0034 277/480 Volt, 3-Phase, 4-Wire, 100% Neutral, Copper Conductors (26 25 13 00-0026)		
26 25 13 00-0035 EA 225 Amperes Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire	2,340.31	423.01
26 25 13 00-0036 EA 400 Amperes Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire	2,560.22	423.01
26 25 13 00-0037 EA 600 Amperes Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire	2,753.41	576.83
26 25 13 00-0038 EA 800 Amperes Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire	3,096.84	576.83
26 25 13 00-0039 EA 1,000 Amperes Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire	3,275.33	769.11
26 25 13 00-0040 EA 1,350 Amperes Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire	3,719.47	769.11
26 25 13 00-0041 Bus Duct Plug-In Circuit Breaker (26 25 13 00-0001)		
26 25 13 00-0042 240 Volt, 3-Phase (26 25 13 00-0041)		
26 25 13 00-0043 EA 60 Amperes, 240 Volt, 3 Phase, Bus Duct Plug-In Circuit Breaker	1,042.70	153.82
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	84.15	
26 25 13 00-0044 EA 100 Amperes, 240 Volt, 3 Phase, Bus Duct Plug-In Circuit Breaker	2,012.41	153.82
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	108.02	
26 25 13 00-0045 600 Volt, 3-Phase (26 25 13 00-0041)		
26 25 13 00-0046 EA 60 Amperes, 600 Volt, 3 Phase, Bus Duct Plug-in Circuit Breaker	1,932.83	153.82
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	84.15	
26 25 13 00-0047 EA 100 Amperes, 600 Volt, 3 Phase, Bus Duct Plug-in Circuit Breaker	2,502.46	153.82
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	108.02	
26 25 13 00-0048 120/208 Volt, 3-Phase, 4-Wire (26 25 13 00-0041)		
26 25 13 00-0049 EA 60 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Bus Duct Plug-in Circuit Breaker	1,199.93	184.58
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	96.14	
26 25 13 00-0050 EA 100 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Bus Duct Plug-in Circuit Breaker	1,439.05	184.58
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	120.17	
26 25 13 00-0051 277/480 Volt, 3-Phase, 4-Wire (26 25 13 00-0041)		
26 25 13 00-0052 EA 60 Amperes, 277/480 Volt, 3 Phase, 4 Wire, Bus Duct Plug-In Circuit Breaker	1,358.93	184.58
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	96.14	
26 25 13 00-0053 EA 100 Amperes, 277/480 Volt, 3 Phase, 4 Wire, Bus Duct Plug-In Circuit Breaker	2,061.66	184.58
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	120.17	

26 Electrical
26 20 Low-Voltage Electrical Distribution
26 25 Enclosed Bus Assemblies



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 25 13 00-0054 EA 225 Amperes, 277/480 Volt, 3 Phase, 4 Wire, Bus Duct Plug-In Circuit Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,117.35 276.66	638.36
26 25 13 00-0055 EA 400 Amperes, 277/480 Volt, 3 Phase, 4 Wire, Bus Duct Plug-In Circuit Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7,378.21 600.86	638.36
26 25 13 00-0056 EA 600 Amperes, 277/480 Volt, 3 Phase, 4 Wire, Bus Duct Plug-In Circuit Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8,415.24 835.99	1,845.86
26 25 13 00-0057 EA 800 Amperes, 277/480 Volt, 3 Phase, 4 Wire, Bus Duct Plug-In Circuit Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10,980.95 1,479.05	1,845.86
26 25 13 00-0058 Bus Duct Plug-In Fusible Switch (26 25 13 00-0001)		
26 25 13 00-0059 240 Volt, 3-Pole, 3-Fuse (26 25 13 00-0058)		
26 25 13 00-0060 EA 30 Amperes, 240 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	1,040.51	153.82
26 25 13 00-0061 EA 60 Amperes, 240 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	1,151.32	153.82
26 25 13 00-0062 EA 100 Amperes, 240 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	1,578.85	184.58
26 25 13 00-0063 EA 200 Amperes, 240 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	2,674.49	369.17
26 25 13 00-0064 EA 400 Amperes, 240 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	6,681.49	830.64
26 25 13 00-0065 EA 600 Amperes, 240 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	10,126.97	1,445.92
26 25 13 00-0066 600 Volt, 3-Pole, 3-Fuse (26 25 13 00-0058)		
26 25 13 00-0067 EA 30 Amperes, 600 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	1,071.24	169.21
26 25 13 00-0068 EA 60 Amperes, 600 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	1,179.76	169.21
26 25 13 00-0069 EA 100 Amperes, 600 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	1,583.71	169.21
26 25 13 00-0070 EA 200 Amperes, 600 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	2,725.98	353.79
26 25 13 00-0071 EA 400 Amperes, 600 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	6,640.40	799.88
26 25 13 00-0072 EA 600 Amperes, 600 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	10,418.30	1,538.21
26 25 13 00-0073 EA 800 Amperes, 600 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	16,796.23	1,999.68
26 25 13 00-0074 120/208 Volt, 4-pole, 3 Fuse (26 25 13 00-0058)		
26 25 13 00-0075 EA 30 Amperes, 120/208 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	1,200.65	199.97
26 25 13 00-0076 EA 60 Amperes, 120/208 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	1,301.58	199.97
26 25 13 00-0077 EA 100 Amperes, 120/208 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	1,758.31	199.97
26 25 13 00-0078 EA 200 Amperes, 120/208 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	2,977.13	415.31
26 25 13 00-0079 EA 400 Amperes, 120/208 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	7,356.72	922.93
26 25 13 00-0080 EA 600 AAmperes, 120/208 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	10,738.69	1,415.16
26 25 13 00-0081 277/480 Volt, 4-pole, 3-Fuse (26 25 13 00-0058)		
26 25 13 00-0082 EA 30 Amperes, 277/480 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	1,237.21	199.97
26 25 13 00-0083 EA 60 Amperes, 277/480 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	1,338.15	169.67
26 25 13 00-0084 EA 100 Amperes, 277/480 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	1,868.24	230.73
26 25 13 00-0085 EA 200 Amperes, 277/480 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	3,095.45	415.31
26 25 13 00-0086 EA 400 Amperes, 277/480 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	7,356.72	922.93
26 25 13 00-0087 EA 600 Amperes, 277/480 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	10,738.69	1,415.16
26 25 13 00-0088 EA 800 Amperes, 277/480 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	16,781.95	1,876.62
26 25 16 Low-Voltage Cablebus Systems (26 25)		
26 25 16 00-0001 Feeder Bus Duct (26 25 16)		
Note: Based on an average of 100' horizontal run with a 15' maximum mounting height. Each 100' of bus duct includes 2 elbows, 1 end cap, and switchboard stub. Excludes hangers with anchors and hardware support.		
26 25 16 00-0002 600 Volt, 3 Phase, 3 Wire, Ventilated Low Impedance (26 25 16 00-0001)		
Note: Copper conductors.		
26 25 16 00-0003 LF 800 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports.....	799.62	64.60
<i>For Up To 25, Add</i>	199.91	
<i>For >25 To 50, Add</i>	119.94	
<i>For >50 To 100, Add</i>	59.97	
26 25 16 00-0004 LF 1,000 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports.....	812.75	64.60
<i>For Up To 25, Add</i>	203.19	
<i>For >25 To 50, Add</i>	121.91	
<i>For >50 To 100, Add</i>	60.96	
26 25 16 00-0005 LF 1,350 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports.....	1,056.26	64.60
<i>For Up To 25, Add</i>	264.07	
<i>For >25 To 50, Add</i>	158.44	
<i>For >50 To 100, Add</i>	79.22	
26 25 16 00-0006 LF 1,600 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports.....	1,263.88	64.60
<i>For Up To 25, Add</i>	315.97	
<i>For >25 To 50, Add</i>	189.58	
<i>For >50 To 100, Add</i>	94.79	
26 25 16 00-0007 LF 2,000 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports.....	1,541.72	64.60
<i>For Up To 25, Add</i>	385.43	
<i>For >25 To 50, Add</i>	231.26	
<i>For >50 To 100, Add</i>	115.63	
26 25 16 00-0008 LF 3,000 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports.....	2,105.53	153.82
<i>For Up To 25, Add</i>	526.38	
<i>For >25 To 50, Add</i>	315.83	
<i>For >50 To 100, Add</i>	157.91	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 25 16 00-0009 LF 4,000 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports	2,900.82	153.82
<i>For Up To 25, Add</i>	725.21	
<i>For >25 To 50, Add</i>	435.12	
<i>For >50 To 100, Add</i>	217.56	
26 25 16 00-0010 LF 5,000 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports	3,432.36	153.82
<i>For Up To 25, Add</i>	858.09	
<i>For >25 To 50, Add</i>	514.85	
<i>For >50 To 100, Add</i>	257.43	
26 25 16 00-0011 LF 6,000 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports	4,220.75	153.82
<i>For Up To 25, Add</i>	1,055.19	
<i>For >25 To 50, Add</i>	633.11	
<i>For >50 To 100, Add</i>	316.56	
26 25 16 00-0012 277/480 Volt, 3 Phase, 4 Wire, Half Neutral, Ventilated <small>(26 25 16 00-0001)</small>		
Note: Low impedance, copper conductors.		
26 25 16 00-0013 LF 800 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports	912.25	69.22
<i>For Up To 25, Add</i>	228.06	
<i>For >25 To 50, Add</i>	136.84	
<i>For >50 To 100, Add</i>	68.42	
26 25 16 00-0014 LF 1,000 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports	930.07	69.22
<i>For Up To 25, Add</i>	232.52	
<i>For >25 To 50, Add</i>	139.51	
<i>For >50 To 100, Add</i>	69.76	
26 25 16 00-0015 LF 1,350 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports	1,190.32	69.22
<i>For Up To 25, Add</i>	297.58	
<i>For >25 To 50, Add</i>	178.55	
<i>For >50 To 100, Add</i>	89.27	
26 25 16 00-0016 LF 1,600 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports	1,410.60	69.22
<i>For Up To 25, Add</i>	352.65	
<i>For >25 To 50, Add</i>	211.59	
<i>For >50 To 100, Add</i>	105.80	
26 25 16 00-0017 LF 2,000 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports	1,701.61	69.22
<i>For Up To 25, Add</i>	425.40	
<i>For >25 To 50, Add</i>	255.24	
<i>For >50 To 100, Add</i>	127.62	
26 25 16 00-0018 LF 3,000 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports	2,606.59	118.45
<i>For Up To 25, Add</i>	651.65	
<i>For >25 To 50, Add</i>	390.99	
<i>For >50 To 100, Add</i>	195.49	
26 25 16 00-0019 LF 4,000 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports	3,267.94	118.45
<i>For Up To 25, Add</i>	816.99	
<i>For >25 To 50, Add</i>	490.19	
<i>For >50 To 100, Add</i>	245.10	
26 25 16 00-0020 LF 5,000 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports	3,868.20	219.96
<i>For Up To 25, Add</i>	967.05	
<i>For >25 To 50, Add</i>	580.23	
<i>For >50 To 100, Add</i>	290.12	
26 25 16 00-0021 LF 6,000 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports	4,761.08	219.96
<i>For Up To 25, Add</i>	1,190.27	
<i>For >25 To 50, Add</i>	714.16	
<i>For >50 To 100, Add</i>	357.08	

26 27 Low-Voltage Distribution Equipment (26 20)

26 27 13 Electricity Metering (26 27)

26 27 13 00-0001 Revenue Metering (26 27 13)

26 27 13 00-0002 Meter Socket Base (26 27 13 00-0001)

Note: NEMA 3R.

26 27 13 00-0003 EA 100 Amperes, 1 Phase, 3 Wire, 4 Terminal Meter Socket With Bypass	311.32	99.98
26 27 13 00-0004 EA 100 Amperes, 1 Phase, 3 Wire, 5 Terminal Meter Socket With Bypass	327.87	99.98
26 27 13 00-0005 EA 200 Amperes, 1 Phase, 3 Wire, 4 Terminal Meter Socket With Bypass	428.09	123.05
26 27 13 00-0006 EA 200 Amperes, 1 Phase, 3 Wire, 5 Terminal Meter Socket With Bypass	432.80	123.05
26 27 13 00-0007 EA 200 Amperes, 3 Phase, 4 Wire, 7 Terminal Meter Socket With Bypass And Jaw Release	793.52	138.44
26 27 13 00-0008 EA 320 Amperes, 3 Phase, 4 Wire, 7 Terminal Meter Socket With Bypass And Jaw Release	1,042.11	153.82
26 27 13 00-0009 EA 400 Amperes, 3 Phase, 4 Wire, 7 Terminal Meter Socket With Bypass And Jaw Release	2,483.38	169.21
26 27 13 00-0010 EA Combination Motor And Current Transformer Cabinet, 15 To 30 Amperes, 13 Terminal, Underground, With Test Switch And Transformer, Socket Base	3,101.10	769.11

26 27 13 00-0011 Meter Device (26 27 13 00-0001)

Note: Direct read, with 15 minute demand.

26 27 13 00-0012 EA 100 To 200 Amperes, 120 Volt, Or 240 Volt, 1 Phase, KWH Meter.....	285.76	30.76
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.92	
26 27 13 00-0013 EA 200 Amperes, 120 Volt, Or 240 Volt, 3 Phase, KWH Meter.....	780.29	30.80
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.25	

26 27 13 00-0014 Current Transformer Enclosure (26 27 13 00-0001)

26 27 13 00-0015 EA 18" x 24" x 9", NEMA 3R, Screwed Cover, Current Transformer Enclosure.....	655.84	199.97
--	--------	--------

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 27 Low-Voltage Distribution Equipment**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
26 27 13 00-0016		120/240 Volt Meter Center And Main Breaker, Indoor Housing (26 27 13 00-0001)			
26 27 13 00-0017		800 Amperes Bus, 4 Jaw Sockets, 125 Amperes Max., 2 Pole (26 27 13 00-0016)			
26 27 13 00-0018	EA	3 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 125 Amperes Max	1,102.30		96.14
26 27 13 00-0019	EA	4 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 125 Amperes Max	1,445.87		115.36
26 27 13 00-0020	EA	5 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 125 Amperes Max	1,787.66		134.59
26 27 13 00-0021	EA	6 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 125 Amperes Max	2,070.59		153.82
26 27 13 00-0022	EA	7 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 125 Amperes Max	2,683.60		173.05
26 27 13 00-0023	EA	8 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 125 Amperes Max	2,900.48		192.28
26 27 13 00-0024	EA	10 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 125 Amperes Max	3,387.81		230.73
26 27 13 00-0025		1,200 Amperes Bus, 4 Jaw Sockets, 200 Amperes Max., 2 Pole (26 27 13 00-0016)			
26 27 13 00-0026	EA	3 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 200 Amperes Max	1,994.48		96.14
26 27 13 00-0027	EA	4 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 200 Amperes Max	2,621.77		115.36
26 27 13 00-0028	EA	6 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 200 Amperes Max	3,608.72		153.82
26 27 13 00-0029	EA	7 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 200 Amperes Max	4,004.02		173.05
26 27 13 00-0030	EA	8 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 200 Amperes Max	5,023.86		192.28
26 27 13 00-0031		800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity, 2 Pole (26 27 13 00-0016)			
26 27 13 00-0032	EA	3 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	1,682.39		134.59
26 27 13 00-0033	EA	4 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,199.06		153.82
26 27 13 00-0034	EA	5 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,683.60		173.05
26 27 13 00-0035	EA	6 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	3,150.29		192.28
26 27 13 00-0036	EA	7 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	3,956.02		211.51
26 27 13 00-0037	EA	8 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	4,155.09		230.73
26 27 13 00-0038	EA	10 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	5,141.99		269.19
26 27 13 00-0039		1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity, 2 Pole (26 27 13 00-0016)			
26 27 13 00-0040	EA	3 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,570.99		134.59
26 27 13 00-0041	EA	4 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	3,358.89		153.82
26 27 13 00-0042	EA	6 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	4,720.52		192.28
26 27 13 00-0043	EA	7 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	5,062.32		211.51
26 27 13 00-0044	EA	8 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	6,456.84		230.73
26 27 13 00-0045		120/208 Volt Meter Center And Main Breaker, Indoor Housing (26 27 13 00-0001)			
26 27 13 00-0046		800 Amperes Bus, 5 Jaw Sockets, 125 Amperes Max., 2 Pole (26 27 13 00-0045)			
26 27 13 00-0047	EA	3 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 125 Amperes Max	1,204.99		115.36
26 27 13 00-0048	EA	4 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 125 Amperes Max	1,568.19		134.59
26 27 13 00-0049	EA	5 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 125 Amperes Max	1,929.62		153.82
26 27 13 00-0050	EA	6 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 125 Amperes Max	2,237.51		173.05
26 27 13 00-0051	EA	7 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 125 Amperes Max	2,739.89		192.28
26 27 13 00-0052	EA	8 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 125 Amperes Max	2,956.79		211.51
26 27 13 00-0053	EA	10 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 125 Amperes Max	3,640.40		249.96
26 27 13 00-0054		1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity, 2 Pole (26 27 13 00-0045)			
26 27 13 00-0055	EA	3 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	2,104.31		115.36
26 27 13 00-0056	EA	4 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	2,767.29		134.59
26 27 13 00-0057	EA	6 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	3,986.18		173.05
26 27 13 00-0058	EA	7 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	4,381.50		192.28
26 27 13 00-0059	EA	8 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	5,294.33		211.51
26 27 13 00-0060		800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity, 2 Pole (26 27 13 00-0045)			
26 27 13 00-0061	EA	3 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	1,785.11		153.82
26 27 13 00-0062	EA	4 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,308.92		173.05
26 27 13 00-0063	EA	5 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,846.99		192.28
26 27 13 00-0064	EA	6 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	3,313.70		211.51
26 27 13 00-0065	EA	7 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	4,155.15		230.73
26 27 13 00-0066	EA	8 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	4,354.14		249.96
26 27 13 00-0067	EA	10 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	5,412.48		288.41
26 27 13 00-0068		1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity, 2 Pole (26 27 13 00-0045)			
26 27 13 00-0069	EA	3 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,698.70		153.82
26 27 13 00-0070	EA	4 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	3,540.12		173.05
26 27 13 00-0071	EA	6 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	5,062.36		211.51
26 27 13 00-0072	EA	7 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	5,297.07		230.73



Electrical	26	26
Low-Voltage Electrical Distribution	26 20	
Low-Voltage Distribution Equipment	26 27	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 13 00-0073 EA 8 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	6,709.48	249.96
26 27 13 00-0074 120/240 Volt Meter Center And Main Breaker, NEMA 3R Housing <small>(26 27 13 00-0001)</small>		
26 27 13 00-0075 800 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity, 2 Pole <small>(26 27 13 00-0074)</small>		
26 27 13 00-0076 EA 3 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity	1,102.30	96.14
26 27 13 00-0077 EA 4 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity	1,445.87	115.36
26 27 13 00-0078 EA 6 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity	2,070.59	153.82
26 27 13 00-0079 EA 7 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity	2,683.60	173.05
26 27 13 00-0080 EA 8 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity	3,310.88	192.28
26 27 13 00-0081 1,200 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity, 2 Pole <small>(26 27 13 00-0074)</small>		
26 27 13 00-0082 EA 3 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity	1,994.47	96.14
26 27 13 00-0083 EA 4 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity	2,621.76	115.36
26 27 13 00-0084 EA 6 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity	3,787.13	153.82
26 27 13 00-0085 EA 7 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity	4,182.45	173.05
26 27 13 00-0086 EA 8 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity	5,023.86	192.28
26 27 13 00-0087 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity, 2 Pole <small>(26 27 13 00-0074)</small>		
26 27 13 00-0088 EA 3 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	1,682.39	134.59
26 27 13 00-0089 EA 4 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,199.06	153.82
26 27 13 00-0090 EA 6 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	3,150.29	192.28
26 27 13 00-0091 EA 7 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	3,956.02	211.51
26 27 13 00-0092 EA 8 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	4,155.09	230.73
26 27 13 00-0093 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity, 2 Pole <small>(26 27 13 00-0074)</small>		
26 27 13 00-0094 EA 3 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,571.01	134.59
26 27 13 00-0095 EA 4 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	3,358.89	153.82
26 27 13 00-0096 EA 6 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	4,720.52	192.28
26 27 13 00-0097 EA 7 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	5,062.32	211.51
26 27 13 00-0098 EA 8 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity	6,456.90	230.73
26 27 13 00-0099 120/208 Volt Meter Center And Main Breaker, NEMA 3R Housing <small>(26 27 13 00-0001)</small>		
26 27 13 00-0100 800 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity, 2 Pole <small>(26 27 13 00-0099)</small>		
26 27 13 00-0101 EA 3 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	1,204.99	115.36
26 27 13 00-0102 EA 4 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	1,568.19	134.59
26 27 13 00-0103 EA 6 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	2,237.51	173.05
26 27 13 00-0104 EA 7 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	2,918.33	192.28
26 27 13 00-0105 EA 8 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	3,313.66	211.51
26 27 13 00-0106 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity, 2 Pole <small>(26 27 13 00-0099)</small>		
26 27 13 00-0107 EA 3 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	2,104.30	115.36
26 27 13 00-0108 EA 4 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	2,767.27	134.59
26 27 13 00-0109 EA 6 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	3,807.74	173.05
26 27 13 00-0110 EA 7 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	4,203.06	192.28
26 27 13 00-0111 EA 8 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity	5,294.29	211.51
26 27 13 00-0112 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity, 2 Pole <small>(26 27 13 00-0099)</small>		
26 27 13 00-0113 EA 3 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	1,785.09	153.82
26 27 13 00-0114 EA 4 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,308.89	173.05
26 27 13 00-0115 EA 6 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	3,313.66	211.51
26 27 13 00-0116 EA 7 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	4,155.09	230.73
26 27 13 00-0117 EA 8 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	4,354.14	249.96
26 27 13 00-0118 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity, 2 Pole <small>(26 27 13 00-0099)</small>		
26 27 13 00-0119 EA 3 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	2,698.68	153.82
26 27 13 00-0120 EA 4 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	3,540.09	173.05
26 27 13 00-0121 EA 6 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	5,062.32	211.51
26 27 13 00-0122 EA 7 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	5,297.07	230.73
26 27 13 00-0123 EA 8 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity	6,709.48	249.96

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 27 Low-Voltage Distribution Equipment**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
26 27 13 00-0124		Watt/Hour Meters <small>(26 27 13)</small>			
26 27 13 00-0125	EA	Single Phase M-90 Meter, Socket, NEMA 3R Enclosure.....	1,195.89		92.29
26 27 13 00-0126	EA	Three Phase M-90 Meter/Main Breaker Combination With Socket, NEMA 3R Enclosure.....	3,568.48		184.58
26 27 13 00-0127	EA	Three Phase M-90 Meter In Line Secondary With Socket, NEMA 3R Enclosure	1,923.11		138.44
26 27 13 00-0128	EA	Three Phase M-90 Meter, Primary Side Transformer Mount With Socket Totally Enclosed, NEMA 3R Enclosure	2,330.63		138.44
26 27 13 00-0129	EA	Three Phase M-90 Meter, Primary Side Pole Mount With Socket, NEMA 3R Enclosure.....	1,982.97		138.44
26 27 13 00-0130	EA	C.T. For M-90 Meter On Primary Side, NEMA 3R Enclosure	1,330.81		127.67
26 27 13 00-0131	EA	P.T. For M-90 Meter On Primary Side, NEMA 3R Enclosure.....	2,280.38		230.73
26 27 13 00-0132		Watt/Hour Meter Systems <small>(26 27 13)</small>			
		Note: Includes NEMA 3R enclosure with C.T. and NEMA 3R C.T. enclosure. systems with main breakers include an additional NEMA 3R enclosure.			
26 27 13 00-0133		Watt/Hour Meter System Without Main Breaker <small>(26 27 13 00-0132)</small>			
26 27 13 00-0134	EA	400 Amperes System; 200 Amperes M-90 Meter And Enclosure.....	5,982.84		923.08
26 27 13 00-0135	EA	600 To 800 Amperes System; 200 Amperes M-90 Meter And Enclosure.....	6,944.56		923.08
26 27 13 00-0136		Watt/Hour Meter System With Main Breaker <small>(26 27 13 00-0132)</small>			
26 27 13 00-0137	EA	400 Amperes System; 400 Amperes Main Breaker, 200 Amperes M-90 Meter And Enclosure	10,205.31		923.08
26 27 13 00-0138	EA	600 Amperes System; 600 Amperes Main Breaker, 200 Amperes M-90 Meter And Enclosure	12,302.40		923.08
26 27 13 00-0139	EA	800 Amperes System; 800 Amperes Main Breaker, 200 Amperes M-90 Meter And Enclosure	13,191.77		923.08
26 27 16		Electrical Cabinets and Enclosures <small>(26 27)</small>			
		Note: Can be used as enclosure or pull/junction boxes.			
26 27 16 00-0001		NEMA 1 Enclosures, Lockable <small>(26 27 16)</small>			
26 27 16 00-0002		Hinged Cover, Galvanized Steel NEMA 1 Enclosures <small>(26 27 16 00-0001)</small>			
26 27 16 00-0003		4" Depth, Hinged Cover, Galvanized Steel NEMA 1 Enclosures <small>(26 27 16 00-0002)</small>			
26 27 16 00-0004	EA	6" x 4" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	93.57		30.76
26 27 16 00-0005	EA	6" x 6" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	104.63		33.84
26 27 16 00-0006	EA	8" x 6" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	115.78		36.91
26 27 16 00-0007	EA	8" x 8" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	135.16		43.07
26 27 16 00-0008	EA	10" x 8" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	146.86		46.15
26 27 16 00-0009	EA	10" x 10" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	159.31		49.23
26 27 16 00-0010	EA	12" x 8" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	158.93		49.23
26 27 16 00-0011	EA	12" x 10" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	171.65		52.30
26 27 16 00-0012	EA	12" x 12" x 4" Hinged Cover, Galvanized Steel NEMA 1 Enclosure	184.94		55.38
26 27 16 00-0013	EA	16" x 12" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	240.78		73.84
26 27 16 00-0014	EA	16" x 16" x 4" Hinged Cover, Galvanized Steel NEMA 1 Enclosure	291.92		89.22
26 27 16 00-0015	EA	18" x 12" x 4" Hinged Cover, Galvanized Steel NEMA 1 Enclosure	277.97		86.14
26 27 16 00-0016		6" Depth, Hinged Cover, Galvanized Steel NEMA 1 Enclosures <small>(26 27 16 00-0002)</small>			
26 27 16 00-0017	EA	6" x 6" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	116.53		36.91
26 27 16 00-0018	EA	8" x 8" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	140.67		43.07
26 27 16 00-0019	EA	10" x 8" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	168.33		52.30
26 27 16 00-0020	EA	10" x 10" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	181.34		55.38
26 27 16 00-0021	EA	12" x 10" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	194.58		58.45
26 27 16 00-0022	EA	12" x 12" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	208.36		61.53
26 27 16 00-0023	EA	16" x 12" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	265.45		79.99
26 27 16 00-0024	EA	16" x 16" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	322.51		98.44
26 27 16 00-0025	EA	18" x 12" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	311.22		95.37
26 27 16 00-0026	EA	18" x 18" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	404.77		123.05
26 27 16 00-0027	EA	24" x 18" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	511.89		141.52
26 27 16 00-0028	EA	24" x 24" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	581.27		153.82
26 27 16 00-0029	EA	30" x 24" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	643.30		163.05
26 27 16 00-0030	EA	36" x 24" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	697.64		169.21
26 27 16 00-0031	EA	24-1/2" x 12-1/2" x 6-1/2", Hinged Cover, Galvanized Steel NEMA 1 Enclosure (Control Products MH3803L)	481.16		123.05
26 27 16 00-0032		Screw Cover, Galvanized Steel NEMA 1 Enclosures <small>(26 27 16 00-0001)</small>			
26 27 16 00-0033		3" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures <small>(26 27 16 00-0032)</small>			
26 27 16 00-0034	EA	4" x 4" x 3" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	64.62		21.54
26 27 16 00-0035	EA	6" x 6" x 3" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	92.36		30.76
26 27 16 00-0036	EA	8" x 6" x 3" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	102.79		33.84
26 27 16 00-0037		4" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures <small>(26 27 16 00-0032)</small>			
26 27 16 00-0038	EA	4" x 4" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	72.51		24.61
26 27 16 00-0039	EA	6" x 4" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	90.02		30.76
26 27 16 00-0040	EA	6" x 6" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	100.30		33.84
26 27 16 00-0041	EA	8" x 6" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	110.73		36.91
26 27 16 00-0042	EA	8" x 8" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	129.21		43.07
26 27 16 00-0043	EA	10" x 8" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	140.05		46.15
26 27 16 00-0044	EA	10" x 10" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	151.38		49.23



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0045 EA 12" x 8" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	151.02	49.23
26 27 16 00-0046 EA 12" x 10" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	162.78	52.30
26 27 16 00-0047 EA 12" x 12" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	174.84	55.38
26 27 16 00-0048 EA 16" x 12" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	229.38	73.84
26 27 16 00-0049 EA 16" x 16" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	284.63	92.29
26 27 16 00-0050 EA 18" x 12" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	264.35	86.14
26 27 16 00-0051 EA 18" x 18" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	342.02	110.75
26 27 16 00-0052 EA 24" x 24" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	483.42	138.44
26 27 16 00-0053 6" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0032)		
26 27 16 00-0054 EA 6" x 6" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	111.25	36.91
26 27 16 00-0055 EA 8" x 6" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	122.37	39.99
26 27 16 00-0056 EA 8" x 8" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	141.07	46.15
26 27 16 00-0057 EA 10" x 8" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	160.12	52.30
26 27 16 00-0058 EA 10" x 10" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	172.02	55.38
26 27 16 00-0059 EA 12" x 10" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	184.05	58.45
26 27 16 00-0060 EA 12" x 12" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	196.49	61.53
26 27 16 00-0061 EA 16" x 12" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	252.17	79.99
26 27 16 00-0062 EA 16" x 16" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	309.91	98.44
26 27 16 00-0063 EA 18" x 12" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	295.42	95.37
26 27 16 00-0064 EA 18" x 18" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	383.66	123.05
26 27 16 00-0065 EA 24" x 18" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	473.27	141.52
26 27 16 00-0066 EA 24" x 24" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	538.36	153.82
26 27 16 00-0067 EA 30" x 24" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	579.81	163.05
26 27 16 00-0068 EA 36" x 24" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	629.79	169.21
26 27 16 00-0069 8" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0032)		
26 27 16 00-0070 EA 8" x 8" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	160.12	52.30
26 27 16 00-0071 EA 12" x 12" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	216.67	67.68
26 27 16 00-0072 EA 16" x 12" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	275.48	86.14
26 27 16 00-0073 EA 16" x 16" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	342.29	107.68
26 27 16 00-0074 EA 18" x 12" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	327.96	104.60
26 27 16 00-0075 EA 18" x 18" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	406.09	129.21
26 27 16 00-0076 EA 24" x 12" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	454.61	147.67
26 27 16 00-0077 EA 24" x 18" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	520.35	156.89
26 27 16 00-0078 EA 24" x 24" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	593.46	169.21
26 27 16 00-0079 EA 30" x 24" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	630.68	178.43
26 27 16 00-0080 EA 30" x 30" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	661.20	184.58
26 27 16 00-0081 EA 36" x 24" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	676.34	184.58
26 27 16 00-0082 10" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0032)		
26 27 16 00-0083 EA 18" x 12" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	371.33	116.90
26 27 16 00-0084 EA 18" x 18" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	487.21	150.74
26 27 16 00-0085 EA 24" x 12" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	496.72	159.98
26 27 16 00-0086 EA 24" x 18" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	627.37	172.28
26 27 16 00-0087 EA 24" x 24" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	718.37	190.74
26 27 16 00-0088 EA 30" x 24" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	790.10	196.89
26 27 16 00-0089 EA 36" x 24" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	840.94	206.12
26 27 16 00-0090 12" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0032)		
26 27 16 00-0091 EA 18" x 18" x 12", Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	537.72	166.13
26 27 16 00-0092 EA 24" x 12" x 12", Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	540.35	175.36
26 27 16 00-0093 EA 24" x 18" x 12", Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	690.42	190.74
26 27 16 00-0094 EA 24" x 24" x 12", Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	784.63	209.19
26 27 16 00-0095 EA 30" x 24" x 12", Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	872.57	218.43
26 27 16 00-0096 EA 36" x 24" x 12", Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	919.01	227.66
26 27 16 00-0097 NEMA 1 Enclosures For Up To 6 Boards, Lockable (26 27 16)		
26 27 16 00-0098 4.5" Depth, Hinged Cover, Powder Coated Steel, NEMA 1 Enclosures (26 27 16 00-0097)		
26 27 16 00-0099 EA 24" High x 18" Wide x 4.5" Deep, 18 Gauge, Powder Coated Steel, NEMA 1 Enclosure (RS2 Technologies NCL-12).....	1,283.73	135.37
26 27 16 00-0100 NEMA 12 Enclosures, Lockable (26 27 16)		
Note: Dust-tight enclosures.		
26 27 16 00-0101 Hinged Cover, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0100)		
26 27 16 00-0102 4" Depth, Hinged Cover, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0101)		
26 27 16 00-0103 EA 4" x 4" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure.....	124.53	24.61
26 27 16 00-0104 EA 6" x 6" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure.....	162.97	33.84
26 27 16 00-0105 EA 8" x 8" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure.....	202.16	43.07
26 27 16 00-0106 EA 10" x 8" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure.....	218.64	46.15
26 27 16 00-0107 EA 12" x 6" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure.....	244.29	49.23
26 27 16 00-0108 EA 12" x 10" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure.....	262.83	52.30



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0109 6" Depth, Hinged Cover, Galvanized Steel NEMA 12 Enclosures <small>(26 27 16 00-0101)</small>		
26 27 16 00-0110 EA 6" x 6" x 6" Hinged Cover, Galvanized Steel NEMA 12 Enclosure	180.63	36.91
26 27 16 00-0111 EA 8" x 6" x 6" Hinged Cover, Galvanized Steel NEMA 12 Enclosure	198.71	39.99
26 27 16 00-0112 Screw Cover, Galvanized Steel NEMA 12 Enclosures <small>(26 27 16 00-0100)</small>		
26 27 16 00-0113 4" Depth, Screw Cover, Galvanized Steel NEMA 12 Enclosures <small>(26 27 16 00-0112)</small>		
26 27 16 00-0114 EA 4" x 4" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure	251.08	24.61
26 27 16 00-0115 EA 6" x 6" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure	302.42	33.84
26 27 16 00-0116 EA 8" x 6" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure	341.60	36.91
26 27 16 00-0117 EA 8" x 8" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure	391.07	43.07
26 27 16 00-0118 EA 10" x 8" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure	402.75	46.15
26 27 16 00-0119 EA 10" x 10" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure	474.14	49.23
26 27 16 00-0120 EA 12" x 10" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure	508.95	52.30
26 27 16 00-0121 EA 12" x 12" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure	577.95	55.38
26 27 16 00-0122 6" Depth, Screw Cover, Galvanized Steel NEMA 12 Enclosures <small>(26 27 16 00-0112)</small>		
26 27 16 00-0123 EA 6" x 6" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure	366.97	36.91
26 27 16 00-0124 EA 8" x 6" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure	414.35	39.99
26 27 16 00-0125 EA 8" x 8" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure	452.38	46.15
26 27 16 00-0126 EA 10" x 10" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure	535.29	55.38
26 27 16 00-0127 EA 12" x 12" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure	581.71	61.53
26 27 16 00-0128 EA 16" x 14" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure	806.25	79.99
26 27 16 00-0129 EA 18" x 18" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure	1,249.14	123.05
26 27 16 00-0130 EA 24" x 16" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure	1,630.57	141.52
26 27 16 00-0131 EA 24" x 24" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure	1,836.74	153.82
26 27 16 00-0132 8" Depth, Screw Cover, Galvanized Steel NEMA 12 Enclosures <small>(26 27 16 00-0112)</small>		
26 27 16 00-0133 EA 24" x 18" x 8" Screw Cover, Galvanized Steel NEMA 12 Enclosure	1,702.90	156.89
26 27 16 00-0134 EA 24" x 24" x 8" Screw Cover, Galvanized Steel NEMA 12 Enclosure	1,959.17	169.21
26 27 16 00-0135 EA 30" x 24" x 8" Screw Cover, Galvanized Steel NEMA 12 Enclosure	2,151.39	178.43
26 27 16 00-0136 EA 30" x 30" x 8" Screw Cover, Galvanized Steel NEMA 12 Enclosure	2,368.52	184.58
26 27 16 00-0137 EA 36" x 24" x 8" Screw Cover, Galvanized Steel NEMA 12 Enclosure	2,336.64	184.58
26 27 16 00-0138 Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosures <small>(26 27 16 00-0100)</small>		
26 27 16 00-0139 8" Depth, Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosures <small>(26 27 16 00-0138)</small>		
26 27 16 00-0140 EA 60" x 48" x 8" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure	7,356.03	249.96
26 27 16 00-0141 10" Depth, Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosures <small>(26 27 16 00-0138)</small>		
26 27 16 00-0142 EA 60" x 48" x 10" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure	7,432.91	276.88
26 27 16 00-0143 EA 60" x 60" x 10" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure	8,521.34	296.11
26 27 16 00-0144 EA 72" x 60" x 10" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure	9,809.63	369.17
26 27 16 00-0145 EA 72" x 72" x 10" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure	10,958.91	435.32
26 27 16 00-0146 12" Depth, Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosures <small>(26 27 16 00-0138)</small>		
26 27 16 00-0147 EA 60" x 48" x 12" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure	7,960.43	435.32
26 27 16 00-0148 EA 60" x 60" x 12" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure	8,868.52	461.46
26 27 16 00-0149 EA 72" x 60" x 12" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure	10,065.61	492.23
26 27 16 00-0150 EA 72" x 72" x 12" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure	11,095.79	492.23
26 27 16 00-0151 NEMA 3 Enclosures, Lockable <small>(26 27 16)</small>		
Note: Can be used underground or encased in concrete.		
26 27 16 00-0152 2" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures <small>(26 27 16 00-0151)</small>		
26 27 16 00-0153 EA 4" x 4" x 2" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	349.91	107.68
26 27 16 00-0154 3" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures <small>(26 27 16 00-0151)</small>		
26 27 16 00-0155 EA 4" x 4" x 3" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	371.20	107.68
26 27 16 00-0156 EA 5" x 5" x 3" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	459.51	111.52
26 27 16 00-0157 EA 6" x 4" x 3" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	474.00	111.52
26 27 16 00-0158 EA 6" x 6" x 3" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	581.43	115.36
26 27 16 00-0159 4" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures <small>(26 27 16 00-0151)</small>		
26 27 16 00-0160 EA 4" x 4" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	455.59	111.52



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0161 EA 5" x 5" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	493.48	111.52
26 27 16 00-0162 EA 6" x 4" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	513.90	115.36
26 27 16 00-0163 EA 6" x 6" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	630.28	115.36
26 27 16 00-0164 EA 8" x 6" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	690.73	123.05
26 27 16 00-0165 EA 8" x 8" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	742.53	130.75
26 27 16 00-0166 EA 10" x 6" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	770.21	130.75
26 27 16 00-0167 EA 10" x 8" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	904.07	134.59
26 27 16 00-0168 EA 12" x 6" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	976.51	138.44
26 27 16 00-0169 EA 12" x 12" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	1,316.73	153.82
26 27 16 00-0170 6" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures (26 27 16 00-0151)		
26 27 16 00-0171 EA 6" x 6" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	664.19	119.21
26 27 16 00-0172 EA 8" x 6" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	828.17	134.59
26 27 16 00-0173 EA 8" x 8" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	959.48	138.44
26 27 16 00-0174 EA 10" x 8" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	1,096.02	142.29
26 27 16 00-0175 EA 10" x 10" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	1,161.31	142.29
26 27 16 00-0176 EA 12" x 8" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	1,316.38	153.82
26 27 16 00-0177 EA 12" x 12" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	1,519.92	173.05
26 27 16 00-0178 EA 16" x 6" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	1,433.50	165.36
26 27 16 00-0179 EA 18" x 12" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	2,779.25	307.65
26 27 16 00-0180 EA 18" x 18" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	4,731.75	384.55
26 27 16 00-0181 8" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures (26 27 16 00-0151)		
26 27 16 00-0182 EA 8" x 8" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	1,173.67	146.13
26 27 16 00-0183 EA 12" x 8" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	1,749.55	192.28
26 27 16 00-0184 EA 12" x 12" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	1,776.22	192.28
26 27 16 00-0185 EA 16" x 12" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	2,422.04	288.41
26 27 16 00-0186 EA 18" x 12" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	3,149.62	307.65
26 27 16 00-0187 EA 24" x 24" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	7,856.80	538.38
26 27 16 00-0188 10" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures (26 27 16 00-0151)		
26 27 16 00-0189 EA 18" x 12" x 10" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	4,185.30	384.55
26 27 16 00-0190 12" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures (26 27 16 00-0151)		
26 27 16 00-0191 EA 18" x 18" x 12" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	6,364.20	461.46
26 27 16 00-0192 EA 24" x 12" x 12" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	5,258.23	423.01
26 27 16 00-0193 NEMA 3R Enclosures, Lockable (26 27 16)		
Note: Rain-tight enclosures.		
26 27 16 00-0194 Hinged Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0193)		
26 27 16 00-0195 4" Depth, Hinged Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0194)		
26 27 16 00-0196 EA 6" x 4" x 4" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	122.73	30.76
26 27 16 00-0197 EA 6" x 6" x 4" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	135.47	33.84
26 27 16 00-0198 EA 8" x 6" x 4" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	196.94	36.91
26 27 16 00-0199 6" Depth, Hinged Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0194)		
26 27 16 00-0200 EA 8" x 8" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	247.81	46.15
26 27 16 00-0201 EA 10" x 8" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	277.12	52.30
26 27 16 00-0202 EA 12" x 10" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	324.37	58.45
26 27 16 00-0203 EA 12" x 12" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	350.21	61.53
26 27 16 00-0204 EA 16" x 12" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	455.94	79.99
26 27 16 00-0205 EA 16" x 16" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	545.98	98.44
26 27 16 00-0206 EA 18" x 18" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	626.51	123.05
26 27 16 00-0207 8" Depth, Hinged Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0194)		
26 27 16 00-0208 EA 24" x 20" x 8" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	943.39	156.89
26 27 16 00-0209 EA 24" x 24" x 8" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,044.98	169.21
26 27 16 00-0210 EA 30" x 24" x 8" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,173.07	178.43
26 27 16 00-0211 EA 30" x 30" x 8" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,232.98	184.58
26 27 16 00-0212 10" Depth, Hinged Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0194)		
26 27 16 00-0213 EA 12" x 48" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,168.74	190.74
26 27 16 00-0214 EA 12" x 54" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,320.23	215.35
26 27 16 00-0215 EA 12" x 60" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,461.71	238.43
26 27 16 00-0216 EA 12" x 66" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,610.11	263.04
26 27 16 00-0217 EA 12" x 72" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,753.12	286.11
26 27 16 00-0218 EA 18" x 18" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	768.07	150.74
26 27 16 00-0219 EA 24" x 24" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,168.74	190.74
26 27 16 00-0220 EA 30" x 24" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,376.02	196.89

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 27 Low-Voltage Distribution Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0221 EA 36" x 36" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,732.73	215.35
26 27 16 00-0222 12" Depth, Hinged Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0194)		
26 27 16 00-0223 EA 12" x 48" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,124.72	152.29
26 27 16 00-0224 EA 12" x 54" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,261.34	170.74
26 27 16 00-0225 EA 12" x 60" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,396.41	189.20
26 27 16 00-0226 EA 12" x 66" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,544.15	209.19
26 27 16 00-0227 EA 12" x 72" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,680.76	227.66
26 27 16 00-0228 EA 18" x 24" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	840.38	113.83
26 27 16 00-0229 EA 18" x 32" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,124.72	152.29
26 27 16 00-0230 EA 18" x 36" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,261.34	170.74
26 27 16 00-0231 EA 18" x 42" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,484.30	199.97
26 27 16 00-0232 EA 18" x 48" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,680.76	227.66
26 27 16 00-0233 EA 30" x 30" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,599.68	224.58
26 27 16 00-0234 EA 36" x 24" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,680.76	227.66
26 27 16 00-0235 EA 36" x 30" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,768.85	233.81
26 27 16 00-0236 EA 36" x 36" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,966.47	246.12
26 27 16 00-0237 EA 42" x 30" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	2,130.51	258.42
26 27 16 00-0238 Screw Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0193)		
26 27 16 00-0239 4" Depth, Screw Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0238)		
26 27 16 00-0240 EA 4" x 4" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	87.31	24.61
26 27 16 00-0241 EA 6" x 4" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	105.93	30.76
26 27 16 00-0242 EA 6" x 6" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	116.91	33.84
26 27 16 00-0243 EA 8" x 6" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	129.40	36.91
26 27 16 00-0244 EA 8" x 8" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	150.35	43.07
26 27 16 00-0245 EA 10" x 8" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	163.56	46.15
26 27 16 00-0246 EA 10" x 10" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	177.83	49.23
26 27 16 00-0247 EA 12" x 8" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	177.12	49.23
26 27 16 00-0248 EA 12" x 10" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	193.04	52.30
26 27 16 00-0249 EA 12" x 12" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	207.31	55.38
26 27 16 00-0250 EA 18" x 12" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	314.14	86.14
26 27 16 00-0251 EA 18" x 18" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	417.46	110.75
26 27 16 00-0252 6" Depth, Screw Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0238)		
26 27 16 00-0253 EA 6" x 6" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	122.36	36.91
26 27 16 00-0254 EA 8" x 8" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	165.46	46.15
26 27 16 00-0255 EA 10" x 8" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	187.46	52.30
26 27 16 00-0256 EA 10" x 10" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	202.70	55.38
26 27 16 00-0257 EA 12" x 8" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	201.65	55.38
26 27 16 00-0258 EA 12" x 10" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	217.75	58.45
26 27 16 00-0259 EA 12" x 12" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	233.97	61.53
26 27 16 00-0260 EA 16" x 12" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	305.24	79.99
26 27 16 00-0261 EA 18" x 12" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	352.60	95.37
26 27 16 00-0262 EA 18" x 18" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	468.97	123.05
26 27 16 00-0263 EA 24" x 12" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	490.95	132.29
26 27 16 00-0264 EA 24" x 18" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	557.66	141.52
26 27 16 00-0265 EA 24" x 24" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	626.14	153.82
26 27 16 00-0266 8" Depth, Screw Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0238)		
26 27 16 00-0267 EA 12" x 12" x 8", Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	261.47	67.68
26 27 16 00-0268 EA 18" x 12" x 8", Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	381.03	104.60
26 27 16 00-0269 EA 18" x 18" x 8", Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	518.59	135.37
26 27 16 00-0270 EA 24" x 18" x 8", Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	617.17	156.89
26 27 16 00-0271 EA 24" x 24" x 8", Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	695.31	169.21
26 27 16 00-0272 EA 30" x 24" x 8", Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	769.04	178.43
26 27 16 00-0273 10" Depth, Screw Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0238)		
26 27 16 00-0274 EA 18" x 18" x 10" Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	572.63	150.74
26 27 16 00-0275 EA 24" x 24" x 10" Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	766.25	190.74
26 27 16 00-0276 EA 30" x 24" x 10" Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	836.25	196.89
26 27 16 00-0277 12" Depth, Screw Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0238)		
26 27 16 00-0278 EA 24" x 24" x 12" Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	845.95	209.19
26 27 16 00-0279 EA 30" x 30" x 12" Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	1,155.51	227.66
26 27 16 00-0280 EA 36" x 30" x 12" Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	1,193.70	233.81
26 27 16 00-0281 EA 36" x 36" x 12" Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	1,386.32	246.12
26 27 16 00-0282 NEMA 4 Enclosures, Lockable (26 27 16)		
Note: Water-tight enclosures.		
26 27 16 00-0283 Hinge Cover, Painted Steel NEMA 4 Enclosures (26 27 16 00-0282)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0284 EA 4" x 4" x 3" Hinge Cover, Painted Steel NEMA 4 Enclosure	129.43	21.54
26 27 16 00-0285 EA 6" x 4" x 3" Hinge Cover, Painted Steel NEMA 4 Enclosure	151.64	26.15
26 27 16 00-0286 EA 8" x 6" x 3.5" Hinge Cover, Painted Steel NEMA 4 Enclosure	189.92	33.84
26 27 16 00-0287 EA 6" x 6" x 4" Hinge Cover, Painted Steel NEMA 4 Enclosure	181.33	33.84
26 27 16 00-0288 EA 10" x 8" x 4" Hinge Cover, Painted Steel NEMA 4 Enclosure	242.70	46.15
26 27 16 00-0289 EA 12" x 10" x 5" Hinge Cover, Painted Steel NEMA 4 Enclosure	301.57	55.38
26 27 16 00-0290 EA 10" x 8" x 6" Hinge Cover, Painted Steel NEMA 4 Enclosure	279.02	52.30
26 27 16 00-0291 EA 12" x 12" x 6" Hinge Cover, Painted Steel NEMA 4 Enclosure	325.50	61.53
26 27 16 00-0292 EA 14" x 12" x 6" Hinge Cover, Painted Steel NEMA 4 Enclosure	382.39	70.75
26 27 16 00-0293 EA 16" x 14" x 6" Hinge Cover, Painted Steel NEMA 4 Enclosure	464.82	89.22
26 27 16 00-0294 Clamp Cover, Painted Steel NEMA 4 Enclosures (26 27 16 00-0282)		
26 27 16 00-0295 EA 4" x 4" x 3" Clamp Cover, Painted Steel NEMA 4 Enclosure	119.45	21.54
26 27 16 00-0296 EA 6" x 6" x 4" Clamp Cover, Painted Steel NEMA 4 Enclosure	171.38	33.84
26 27 16 00-0297 Screw Cover, Fiberglass NEMA 4 Or 4x Enclosures (26 27 16 00-0282)		
26 27 16 00-0298 EA 6" x 6" x 4", Screw Cover, Fiberglass NEMA 4 Or 4X Enclosure	150.95	29.53
26 27 16 00-0299 EA 8" x 6" x 4", Screw Cover, Fiberglass NEMA 4 Or 4X Enclosure	160.60	32.00
26 27 16 00-0300 EA 10" x 8" x 6", Screw Cover, Fiberglass NEMA 4 Or 4X Enclosure	198.11	41.84
26 27 16 00-0301 EA 12" x 10" x 6", Screw Cover, Fiberglass NEMA 4 Or 4X Enclosure	230.81	46.15
26 27 16 00-0302 EA 14" x 12" x 8", Screw Cover, Fiberglass NEMA 4 Enclosure	297.73	58.45
26 27 16 00-0303 EA 16" x 14" x 8", Screw Cover, Fiberglass NEMA 4 Enclosure	348.25	69.22
26 27 16 00-0304 EA 18" x 16" x 10", Screw Cover, Fiberglass NEMA 4 Enclosure	495.59	110.75
26 27 16 00-0305 NEMA 4X Enclosures, Lockable (26 27 16)		
Note: Water-tight enclosures.		
26 27 16 00-0306 Clamp Cover, Aluminum NEMA 4X Enclosures (26 27 16 00-0305)		
26 27 16 00-0307 EA 6" x 4" x 3" Clamp Cover, Aluminum NEMA 4X Enclosure	250.82	24.61
26 27 16 00-0308 EA 6" x 6" x 4" Clamp Cover, Aluminum NEMA 4X Enclosure	297.50	33.84
26 27 16 00-0309 EA 10" x 8" x 4" Clamp Cover, Aluminum NEMA 4X Enclosure	378.30	46.15
26 27 16 00-0310 EA 12" x 10" x 5" Clamp Cover, Aluminum NEMA 4X Enclosure	459.02	55.38
26 27 16 00-0311 EA 14" x 12" x 6" Clamp Cover, Aluminum NEMA 4X Enclosure	566.85	70.75
26 27 16 00-0312 EA 16" x 14" x 6" Clamp Cover, Aluminum NEMA 4X Enclosure	671.49	89.22
26 27 16 00-0313 Clamp Cover, 304 Stainless Steel NEMA 4X Enclosures (26 27 16 00-0305)		
26 27 16 00-0314 EA 4" x 4" x 3", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure	344.38	21.54
For 316 Stainless Steel, Add	46.49	
26 27 16 00-0315 EA 6" x 4" x 4", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure	448.70	30.76
For 316 Stainless Steel, Add	59.49	
26 27 16 00-0316 EA 6" x 6" x 4", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure	508.16	33.84
For 316 Stainless Steel, Add	67.77	
26 27 16 00-0317 EA 8" x 6" x 4", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure	581.08	36.91
For 316 Stainless Steel, Add	78.21	
26 27 16 00-0318 EA 10" x 8" x 4", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure	713.89	46.15
For 316 Stainless Steel, Add	95.76	
26 27 16 00-0319 EA 12" x 10" x 6", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure	1,002.33	58.45
For 316 Stainless Steel, Add	136.99	
26 27 16 00-0320 EA 14" x 12" x 6", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure	1,248.98	70.75
For 316 Stainless Steel, Add	171.53	
26 27 16 00-0321 EA 16" x 14" x 6", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure	1,506.79	89.22
For 316 Stainless Steel, Add	205.40	
26 27 16 00-0322 Screw Cover, Polycarbonate NEMA 4X Enclosures (26 27 16 00-0305)		
Note: NEMA 3R, 4, 4X and 12 rated.		
26 27 16 00-0323 EA 6" x 6" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	166.69	33.84
26 27 16 00-0324 EA 8" x 6" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	187.34	36.91
26 27 16 00-0325 EA 8" x 8" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	214.62	43.07
26 27 16 00-0326 EA 10" x 8" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	233.10	46.15
26 27 16 00-0327 EA 12" x 10" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	269.00	52.30
26 27 16 00-0328 EA 10" x 8" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	253.88	52.30
26 27 16 00-0329 EA 12" x 10" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	295.12	58.45
26 27 16 00-0330 EA 14" x 12" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	369.15	70.75
26 27 16 00-0331 EA 16" x 14" x 8" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	473.41	96.91
26 27 16 00-0332 EA 18" x 16" x 10" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	613.81	139.51
26 27 16 00-0333 EA 6" x 6" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	178.58	33.84
26 27 16 00-0334 EA 8" x 6" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	201.39	36.91
26 27 16 00-0335 EA 8" x 8" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	229.74	43.07
26 27 16 00-0336 EA 10" x 8" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	251.45	46.15
26 27 16 00-0337 EA 12" x 10" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	288.44	52.30
26 27 16 00-0338 EA 10" x 8" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	272.25	52.30
26 27 16 00-0339 EA 12" x 10" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	320.03	58.45
26 27 16 00-0340 EA 14" x 12" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	382.12	70.75
26 27 16 00-0341 EA 16" x 14" x 8" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	500.42	96.91
26 27 16 00-0342 EA 18" x 16" x 10" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	642.96	139.51



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0343		Hinged Cover, Polycarbonate NEMA 4X Enclosures <small>(26 27 16 00-0305)</small>		
		Note: NEMA 3R, 4, 4X and 12 rated.		
26 27 16 00-0344	EA	6" x 6" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover.....	200.18	33.84
26 27 16 00-0345	EA	8" x 6" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover.....	214.35	36.91
26 27 16 00-0346	EA	8" x 8" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover.....	243.77	43.07
26 27 16 00-0347	EA	10" x 8" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover.....	263.34	46.15
26 27 16 00-0348	EA	12" x 10" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover.....	311.13	52.30
26 27 16 00-0349	EA	10" x 8" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover.....	287.37	52.30
26 27 16 00-0350	EA	12" x 10" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover.....	351.35	58.45
26 27 16 00-0351	EA	14" x 12" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover.....	417.77	70.75
26 27 16 00-0352	EA	16" x 14" x 8" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover.....	515.54	96.91
26 27 16 00-0353	EA	18" x 16" x 10" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover.....	668.88	139.51
26 27 16 00-0354	EA	6" x 6" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover.....	208.82	33.84
26 27 16 00-0355	EA	8" x 6" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover.....	230.54	36.91
26 27 16 00-0356	EA	8" x 8" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover.....	258.89	43.07
26 27 16 00-0357	EA	10" x 8" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover.....	279.53	46.15
26 27 16 00-0358	EA	12" x 10" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover.....	332.74	52.30
26 27 16 00-0359	EA	10" x 8" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover.....	305.72	52.30
26 27 16 00-0360	EA	12" x 10" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover.....	374.04	58.45
26 27 16 00-0361	EA	14" x 12" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover.....	428.57	70.75
26 27 16 00-0362	EA	16" x 14" x 8" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover.....	551.17	96.91
26 27 16 00-0363	EA	18" x 16" x 10" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover.....	706.70	139.51
26 27 16 00-0364		NEMA 7/9 Enclosures, Lockable <small>(26 27 16)</small>		
		Note: Nominal inside dimensions.		
26 27 16 00-0365		4" Depth, Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosures <small>(26 27 16 00-0364)</small>		
26 27 16 00-0366	EA	6" x 6" x 4" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	1,384.15	173.05
		<i>For Mounting Pan, Add</i>	54.95	
26 27 16 00-0367	EA	6" x 8" x 4" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	1,128.62	184.58
		<i>For Mounting Pan, Add</i>	102.39	
26 27 16 00-0368	EA	8" x 10" x 4" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	2,124.24	207.66
		<i>For Mounting Pan, Add</i>	141.19	
26 27 16 00-0369		6" Depth, Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosures <small>(26 27 16 00-0364)</small>		
26 27 16 00-0370	EA	8" x 8" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	1,901.24	207.66
		<i>For Mounting Pan, Add</i>	71.79	
26 27 16 00-0371	EA	8" x 10" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	2,446.92	213.43
		<i>For Mounting Pan, Add</i>	141.19	
26 27 16 00-0372	EA	8" x 12" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	2,510.20	230.73
		<i>For Mounting Pan, Add</i>	108.00	
26 27 16 00-0373	EA	10" x 10" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	2,572.88	230.73
		<i>For Mounting Pan, Add</i>	126.36	
26 27 16 00-0374	EA	10" x 14" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	3,617.48	288.41
		<i>For Mounting Pan, Add</i>	165.78	
26 27 16 00-0375	EA	12" x 12" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	3,403.79	259.57
		<i>For Mounting Pan, Add</i>	103.51	
26 27 16 00-0376	EA	12" x 18" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	3,531.67	288.41
		<i>For Mounting Pan, Add</i>	154.88	
26 27 16 00-0377	EA	12" x 24" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	5,494.80	519.15
		<i>For Mounting Pan, Add</i>	208.37	
26 27 16 00-0378	EA	14" x 14" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	4,327.50	346.09
		<i>For Mounting Pan, Add</i>	202.88	
26 27 16 00-0379	EA	16" x 16" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	5,744.88	576.83
		<i>For Mounting Pan, Add</i>	186.26	
26 27 16 00-0380	EA	18" x 18" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	6,824.09	576.83
		<i>For Mounting Pan, Add</i>	302.80	
26 27 16 00-0381		8" Depth, Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosures <small>(26 27 16 00-0364)</small>		
26 27 16 00-0382	EA	8" x 12" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	2,924.72	259.57
		<i>For Mounting Pan, Add</i>	108.00	
26 27 16 00-0383	EA	10" x 10" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	2,944.20	259.57
		<i>For Mounting Pan, Add</i>	126.36	
26 27 16 00-0384	EA	10" x 14" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	3,315.18	259.57
		<i>For Mounting Pan, Add</i>	165.78	
26 27 16 00-0385	EA	12" x 12" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	3,673.83	288.41
		<i>For Mounting Pan, Add</i>	103.51	
26 27 16 00-0386	EA	12" x 18" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	5,394.31	519.15
		<i>For Mounting Pan, Add</i>	154.88	
26 27 16 00-0387	EA	12" x 24" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	6,565.67	634.52
		<i>For Mounting Pan, Add</i>	208.37	
26 27 16 00-0388	EA	12" x 36" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	10,179.06	749.88
		<i>For Mounting Pan, Add</i>	313.37	
26 27 16 00-0389	EA	14" x 14" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure.....	5,946.07	634.52
		<i>For Mounting Pan, Add</i>	202.88	



Electrical	26	26
Low-Voltage Electrical Distribution	26 20	
Low-Voltage Distribution Equipment	26 27	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0390 EA 16" x 16" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	6,098.74 186.26	634.52
26 27 16 00-0391 EA 16" x 24" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	8,950.39 279.20	692.20
26 27 16 00-0392 EA 18" x 18" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	7,426.35 302.80	634.52
26 27 16 00-0393 EA 18" x 24" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	9,836.48 442.78	692.20
26 27 16 00-0394 EA 18" x 30" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	9,771.67 590.29	692.20
26 27 16 00-0395 EA 18" x 36" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	15,089.41 737.75	922.93
26 27 16 00-0396 EA 24" x 24" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	11,509.83 685.98	749.88
26 27 16 00-0397 EA 24" x 36" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	20,743.03 939.10	1,153.66
26 27 16 00-0398 10" Depth, Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosures (26 27 16 00-0364)		
26 27 16 00-0399 EA 12" x 36" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	10,571.79 313.37	749.88
26 27 16 00-0400 EA 16" x 24" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	9,732.63 279.20	692.20
26 27 16 00-0401 EA 18" x 24" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	10,601.02 442.78	749.88
26 27 16 00-0402 EA 18" x 36" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	13,316.29 737.75	807.56
26 27 16 00-0403 EA 24" x 24" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	11,832.94 685.98	807.56
26 27 16 00-0404 EA 24" x 36" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	22,542.20 939.10	1,153.66
26 27 16 00-0405 12" Depth, Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosures (26 27 16 00-0364)		
26 27 16 00-0406 EA 12" x 24" x 12" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	6,705.74 208.37	634.52
26 27 16 00-0407 Breaker Enclosures (26 27 16)		
See CSI section 26 24 16 00-0001 for lighting and power panel boards.		
26 27 16 00-0408 15 To 100 Amperes, F-Frame Breaker Enclosures (26 27 16 00-0407)		
26 27 16 00-0409 EA NEMA 1, Painted Steel, 15 To 100 Amperes, F-Frame Breaker Enclosure.....	452.36	123.05
26 27 16 00-0410 EA NEMA 3R, Painted Steel, 15 To 100 Amperes, F-Frame Breaker Enclosure.....	791.72	123.05
26 27 16 00-0411 EA NEMA 3/3R/4/4X/5/12, Stainless Steel, 15 To 100 Amperes, F-Frame Breaker Enclosure.....	1,899.91	169.21
26 27 16 00-0412 EA NEMA 7, Cast Aluminum, 15 To 100 Amperes, F-Frame Breaker Enclosure.....	2,558.11	184.58
26 27 16 00-0413 EA NEMA 9, Cast Aluminum, 15 To 100 Amperes, F-Frame Breaker Enclosure.....	1,884.84	184.58
26 27 16 00-0414 EA NEMA 12, Painted Steel, 15 To 100 Amperes, F-Frame Breaker Enclosure.....	703.98	169.21
26 27 16 00-0415 15 To 250 Amperes, H Or J-Frame Breaker Enclosures (26 27 16 00-0407)		
26 27 16 00-0416 EA NEMA 1, Painted Steel, 15 To 250 Amperes, H Or J-Frame Breaker Enclosure.....	711.59	169.21
26 27 16 00-0417 EA NEMA 3R, Painted Steel, 15 To 250 Amperes, H Or J-Frame Breaker Enclosure.....	1,255.04	169.21
26 27 16 00-0418 EA NEMA 3/3R/4/4X/5/12, Stainless Steel, 15 To 250 Amperes, H Or J-Frame Breaker Enclosure.....	4,146.22	215.35
26 27 16 00-0419 EA NEMA 12, Painted Steel, 15 To 250 Amperes, H Or J-Frame Breaker Enclosure.....	1,065.76	215.35
26 27 16 00-0420 125 To 400 Amperes, L-Frame Breaker Enclosures (26 27 16 00-0407)		
26 27 16 00-0421 EA NEMA 1, Painted Steel, 125 To 400 Amperes, L-Frame Breaker Enclosure.....	1,142.73	338.41
26 27 16 00-0422 EA NEMA 3R, Painted Steel, 125 To 400 Amperes, L-Frame Breaker Enclosure.....	2,482.85	338.41
26 27 16 00-0423 EA NEMA 3/3R/4/4X/5/12, Stainless Steel, 125 To 400 Amperes, L-Frame Breaker Enclosure.....	7,051.83	430.70
26 27 16 00-0424 EA NEMA 12, Painted Steel, 125 To 400 Amperes, L-Frame Breaker Enclosure.....	1,846.61	430.70
26 27 16 00-0425 300 To 800 Amperes, M-Frame Breaker Enclosures (26 27 16 00-0407)		
26 27 16 00-0426 EA NEMA 1, Painted Steel, 300 To 800 Amperes, M-Frame Breaker Enclosure.....	2,231.70	646.05
26 27 16 00-0427 EA NEMA 3R, Painted Steel, 300 To 800 Amperes, M-Frame Breaker Enclosure.....	3,648.08	646.05
26 27 16 00-0428 EA NEMA 3/3R/4/4X/5/12, Stainless Steel, 300 To 800 Amperes, M-Frame Breaker Enclosure.....	12,709.54	830.64
26 27 16 00-0429 EA NEMA 12, Painted Steel, 300 To 800 Amperes, M-Frame Breaker Enclosure.....	7,027.66	830.64
26 27 16 00-0430 250 To 1,200 Amperes, P-Frame Breaker Enclosures (26 27 16 00-0407)		
26 27 16 00-0431 EA NEMA 1, Painted Steel, 250 To 1,200 Amperes, P-Frame Breaker Enclosure.....	2,667.09	646.05
26 27 16 00-0432 EA NEMA 3R, Painted Steel, 250 To 1,200 Amperes, P-Frame Breaker Enclosure.....	4,336.63	646.05
26 27 16 00-0433 EA NEMA 3R/5/12, Painted Steel, 250 To 1,200 Amperes, P-Frame Breaker Enclosure.....	8,751.76	830.64
26 27 16 00-0434 Legend Plates (26 27 16)		
26 27 16 00-0435 EA 3" Phenolic Plastic Cabinet Legend Plate Engraved With 1/2" Letters.....	24.15	7.69

26	Electrical
26 20	Low-Voltage Electrical Distribution
26 27	Low-Voltage Distribution Equipment



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0436 EA 3" Engraved Aluminum Cabinet Legend Plate Engraved With 1/2" Letters	32.02	7.69
26 27 23 Indoor Service Poles (26 27)		
26 27 23 00-0001 Communication And Power Poles (26 27 23) Note: Includes separate compartments for power and communication cable. Includes removable cover plates with knock-outs for modular jacks and openings to accept modular furniture adapters for communication devices. Includes all necessary mounting plates and assemblies. Excludes electrical and communications wire, power outlets and communication devices. Wiremold Tele-Power Pole series.		
26 27 23 00-0002 Steel Communication And Power Poles (26 27 23 00-0001)		
26 27 23 00-0003 2-1/4" Width, Steel Communication And Power Poles (26 27 23 00-0002)		
26 27 23 00-0004 2-1/4" Width, Steel Communication And Power Poles (26 27 23 00-0003)		
26 27 23 00-0005 EA 2-1/4" x 2-5/16", 10'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	354.05	68.17
26 27 23 00-0006 EA 2-1/4" x 2-5/16", 12'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	382.34	68.17
26 27 23 00-0007 EA 2-1/4" x 2-5/16", 15'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	415.05	68.17
26 27 23 00-0008 Additional Cover Plates For 2-1/4" Width, Steel Communication And Power Poles (26 27 23 00-0003) Note: Excludes receptacles, communication jacks and wiring.		
26 27 23 00-0009 EA Add-On 2-1/4" Width Steel Cover Plate For Two Duplex Receptacles And One Single Receptacle	72.53	14.06
26 27 23 00-0010 EA Add-On 2-1/4" Width Steel Cover Plate For Three Duplex Receptacles.....	63.60	14.06
26 27 23 00-0011 EA Add-On 2-1/4" Width Steel Cover Plate For Two Duplex Receptacles And One GFCI Receptacle	71.29	14.06
26 27 23 00-0012 EA Add-On 2-1/4" Width Steel Cover Plate For Data And A/V Modular Devices	54.23	14.06
26 27 23 00-0013 EA Add-On 2-1/4" Width Steel Cover Plate Radius Control Entrance End Fitting	45.63	14.06
26 27 23 00-0014 2-3/4" Width, Steel Communication And Power Poles (26 27 23 00-0002)		
26 27 23 00-0015 2-3/4" Width, Steel Communication And Power Poles (26 27 23 00-0014)		
26 27 23 00-0016 EA 2-3/4" x 1-17/32", 10'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	451.05	68.17
26 27 23 00-0017 EA 2-3/4" x 1-17/32", 12'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	511.84	68.17
26 27 23 00-0018 EA 2-3/4" x 1-17/32", 15'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	544.65	68.17
26 27 23 00-0019 Additional Cover Plates For 2-3/4" Width, Steel Communication And Power Poles (26 27 23 00-0014) Note: Excludes receptacles and communication jacks.		
26 27 23 00-0020 EA Add-On 2-3/4" Width Steel Cover Plate For One Single Receptacle	50.43	14.06
26 27 23 00-0021 EA Add-On 2-3/4" Width Steel Cover Plate For One Duplex Receptacle	45.89	14.06
26 27 23 00-0022 EA Add-On 2-3/4" Width Steel Cover Plate For Data And A/V Modular Devices	49.14	14.06
26 27 23 00-0023 3" Width, Steel Communication And Power Poles (26 27 23 00-0002)		
26 27 23 00-0024 3" Width, Steel Communication And Power Poles (26 27 23 00-0023)		
26 27 23 00-0025 EA 3" x 2-3/4", 10'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	579.87	68.17
26 27 23 00-0026 EA 3" x 2-3/4", 12'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	653.05	68.17
26 27 23 00-0027 EA 3" x 2-3/4", 15'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	701.28	68.17
26 27 23 00-0028 Additional Cover Plates For 3" Width, Steel Communication And Power Poles (26 27 23 00-0023) Note: Excludes receptacles and communication jacks.		
26 27 23 00-0029 EA Add-On 3" Width Steel Steel Cover Plate For One Single Receptacle	50.43	14.06
26 27 23 00-0030 EA Add-On 3" Width Steel Cover Plate For One Duplex Receptacle	45.89	14.06
26 27 23 00-0031 EA Add-On 3" Width Steel Cover Plate For Data And A/V Modular Devices.....	49.14	14.06
26 27 23 00-0032 Aluminum Communication And Power Poles (26 27 23 00-0001)		
26 27 23 00-0033 2-1/8" Width, Aluminum Communication And Power Poles (26 27 23 00-0032)		
26 27 23 00-0034 2-1/8" Width, Aluminum Communication And Power Poles (26 27 23 00-0033)		
26 27 23 00-0035 EA 2-1/8" x 2-3/8", 10'-5" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	470.09	68.17
26 27 23 00-0036 EA 2-1/8" x 2-3/8", 12'-5" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	521.25	68.17
26 27 23 00-0037 EA 2-1/8" x 2-3/8", 15'-5" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	578.60	68.17
26 27 23 00-0038 Additional Cover Plates For 2-1/8" Width, Aluminum Communication And Power Poles (26 27 23 00-0033)		
26 27 23 00-0039 EA Add-On 2-1/8" Width Aluminum Cover Plate For Two Duplex Receptacles And One Single Receptacle.....	74.27	14.06
26 27 23 00-0040 EA Add-On 2-1/8" Width Aluminum Cover Plate For Three Duplex Receptacles	75.72	14.06
26 27 23 00-0041 EA Add-On 2-1/8" Width Aluminum Cover Plate For Two Duplex Receptacles And One GFCI Receptacle.....	80.52	14.06
26 27 23 00-0042 EA Add-On 2-1/8" Width Aluminum Cover Plate For Data And A/V Modular Devices.....	56.93	14.06
26 27 23 00-0043 EA Add-On 2-1/8" Width Aluminum Radius Control Entrance End Fitting	45.63	14.06



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 23 00-0044 2-1/4" Width, Aluminum Communication And Power Poles <small>(26 27 23 00-0032)</small>		
26 27 23 00-0045 EA 2-1/4" x 2-5/16", 10'-2" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	454.11	68.17
26 27 23 00-0046 EA 2-1/4" x 2-5/16", 12'-8" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	506.58	68.17
26 27 23 00-0047 EA 2-1/4" x 2-5/16", 15'-2" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	568.40	68.17
26 27 23 00-0048 5" Width, Aluminum Communication And Power Poles <small>(26 27 23 00-0032)</small>		
26 27 23 00-0049 EA 5" x 4-3/4", 10'-2" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	921.48	68.17
26 27 23 00-0050 EA 5" x 4-3/4", 12'-8" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	1,050.16	68.17
26 27 23 00-0051 EA 5" x 4-3/4", 15'-2" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	1,194.29	68.17
26 27 23 00-0052 2" Diameter, Round Aluminum Communication And Power Pole <small>(26 27 23 00-0032)</small>		
26 27 23 00-0053 EA 2" Diameter, 10'-4" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	512.76	68.17
26 27 23 00-0054 EA 2" Diameter, 10'-4" Height, Painted White Finish, Aluminum Communication And Power Pole.....	486.82	68.17
26 27 23 00-0055 EA 2" Diameter, 10'-4" Height, Polished Anodized Finish, Aluminum Communication And Power Pole.....	616.25	68.17
26 27 26 Wiring Devices <small>(26 27)</small>		
Note: Includes device, installation, wire connections, support clips (where necessary) and testing. Assemblies include outlet device, cover plate, mounting and appropriate box.		
26 27 26 00-0001 Receptacles <small>(26 27 26)</small>		
26 27 26 00-0002 General Use Receptacles <small>(26 27 26 00-0001)</small>		
26 27 26 00-0003 Receptacle Assemblies <small>(26 27 26 00-0002)</small>		
Note: Includes 4" square steel box, bracket, mud ring, receptacle and cover plate.		
26 27 26 00-0004 EA 15 Amperes, 1 Gang, NEMA 5-15, Duplex Receptacle Assembly.....	126.38	54.61
26 27 26 00-0005 EA 20 Amperes, 1 Gang, NEMA 5-20, Duplex Receptacle Assembly.....	135.08	58.45
26 27 26 00-0006 EA 15 Amperes, 2 Gang, NEMA 5-15, Duplex Receptacle Assembly.....	161.65	69.99
26 27 26 00-0007 EA 20 Amperes, 2 Gang, NEMA 5-20, Duplex Receptacle Assembly.....	179.06	77.68
26 27 26 00-0008 EA 15 Amperes, 1 Gang, GFI, Duplex Receptacle Assembly.....	140.06	54.61
26 27 26 00-0009 EA 20 Amperes, 1 Gang, GFI, Duplex Receptacle Assembly.....	149.49	58.45
26 27 26 00-0010 Receptacle Components <small>(26 27 26 00-0002)</small>		
26 27 26 00-0011 EA 15 Amperes, 125 Volt, 1 Phase, NEMA 5-15, Single Receptacle.....	34.49	15.39
26 27 26 00-0012 EA 15 Amperes, 125 Volt, 1 Phase, NEMA 5-15, Duplex Receptacle.....	33.69	15.39
26 27 26 00-0013 EA 15 Amperes, 120/277 Volt, 3 Wire, Single Receptacle.....	38.40	15.39
26 27 26 00-0014 EA 15 Amperes, 120/277 Volt, 3 Wire, Duplex Receptacle.....	41.12	15.39
26 27 26 00-0015 EA 15 Amperes, 250 Volt, 1 Phase, NEMA 6-15, Single Receptacle.....	52.29	19.22
26 27 26 00-0016 EA 15 Amperes, 250 Volt, 1 Phase, NEMA 6-15, Duplex Receptacle.....	61.22	19.22
26 27 26 00-0017 EA 20 Amperes, 125 Volt, 1 Phase, NEMA 5-20, Single Receptacle.....	35.54	15.39
26 27 26 00-0018 EA 20 Amperes, 125 Volt, 1 Phase, NEMA 5-20, Duplex Receptacle.....	34.70	15.39
26 27 26 00-0019 EA 20 Amperes, 120/277 Volt, Single Receptacle.....	46.97	15.39
26 27 26 00-0020 EA 20 Amperes, 120/277 Volt, Duplex Receptacle.....	40.26	15.39
26 27 26 00-0021 EA 20 Amperes, 250 Volt, 1 Phase, NEMA 6-20, Single Receptacle.....	52.29	19.22
26 27 26 00-0022 EA 20 Amperes, 250 Volt, 1 Phase, NEMA 6-20, Duplex Receptacle.....	61.22	19.22
26 27 26 00-0023 EA 20 Amperes, 125/250 Volt, 1 Phase, NEMA 14-20, Single Receptacle.....	89.88	19.22
26 27 26 00-0024 EA 20 Amperes, 250 Volt, 3 Phase, NEMA 15-20, Single Receptacle.....	89.88	19.22
26 27 26 00-0025 EA 25 Amperes, 120/277 Volt, Duplex Receptacle.....	79.18	23.07
26 27 26 00-0026 Specialty Receptacles <small>(26 27 26 00-0001)</small>		
26 27 26 00-0027 Specialty Receptacles <small>(26 27 26 00-0026)</small>		
26 27 26 00-0028 EA 30 Amperes, 125 Volt, 1 Phase, NEMA 5-30, Single Receptacle.....	74.11	26.92
26 27 26 00-0029 EA 30 Amperes, 250 Volt, 1 Phase, NEMA 6-30, Single Receptacle.....	74.11	26.92
26 27 26 00-0030 EA 30 Amperes, 125/250 Volt, NEMA 10-30, Single Receptacles.....	95.37	26.92
26 27 26 00-0031 EA 30 Amperes, 125/250 Volt, 1 Phase, NEMA 14-30, Single Receptacle.....	105.25	26.92
26 27 26 00-0032 EA 30 Amperes, 250 Volt, 3 Phase, NEMA 15-30, Single Receptacle.....	112.95	30.76
26 27 26 00-0033 EA 50 Amperes, 125 Volt, 1 Phase, NEMA 5-50, Single Receptacle.....	105.53	30.76
26 27 26 00-0034 EA 50 Amperes, 250 Volt, 1 Phase, NEMA 6-50, Single Receptacle.....	103.43	30.76
26 27 26 00-0035 EA 50 Amperes, 277 Volt, NEMA 7-50, Single Receptacle.....	92.63	30.76
26 27 26 00-0036 EA 50 Amperes, 125/250 Volt, NEMA 10-50, Single Receptacle.....	114.73	30.76
26 27 26 00-0037 EA 50 Amperes, 125/250 Volt, 1 Phase, NEMA 14-50, Single Receptacle.....	124.38	30.76
26 27 26 00-0038 EA 50 Amperes, 250 Volt, 3 Phase, NEMA 15-50, Single Receptacle.....	132.07	34.61
26 27 26 00-0039 EA 60 Amperes, 125/250 Volt, 1 Phase, NEMA 14-60, Single Receptacle.....	145.48	38.46
26 27 26 00-0040 EA 60 Amperes, 250 Volt, 3 Phase, NEMA 15-60, Single Receptacle.....	160.86	46.15
26 27 26 00-0041 EA 100 Amperes, 480 Volt, 3 Phase, Joy Receptacle With Box, Complete.....	1,486.02	361.48
26 27 26 00-0042 EA 400 Amperes, 4 Pole Weatherproof Generator Receptacle With Box, Complete.....	3,412.12	442.24
26 27 26 00-0043 EA 30 Amperes, 230 Volt, Dryer Receptacle.....	87.76	30.76
26 27 26 00-0044 EA 60 Amperes, 230 Volt, Range Receptacle.....	129.03	46.15
26 27 26 00-0045 EA 15 Or 20 Amperes, 120/277 Volt, Clock Hanger Receptacle.....	77.50	19.22
26 27 26 00-0046 EA Cable Reel With 20 Amperes, 120 Volt Receptacle, Complete.....	1,604.78	468.46
26 27 26 00-0047 Isolated Ground Receptacles <small>(26 27 26 00-0026)</small>		
26 27 26 00-0048 EA 15 Amperes, 125 Volt, NEMA 5-15R Isolated Ground Receptacle, Simplex.....	100.24	15.39
Note: 2 Pole, 3 wire.		

26	Electrical
26 20	Low-Voltage Electrical Distribution
26 27	Low-Voltage Distribution Equipment



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 26 00-0049 EA 20 Amperes, 120 Volt Isolated Ground Receptacles, Simplex.....	67.33	19.22
26 27 26 00-0050 EA 20 Amperes, 120 Volt Isolated Ground Receptacles, Duplex.....	67.12	19.22
26 27 26 00-0051 EA 30 Amperes, 120 Volt Isolated Ground Receptacles, Simplex.....	95.36	30.76
26 27 26 00-0052 EA Locking 15 Amperes, 250 Volt Isolated Ground Receptacles.....	74.21	19.22
26 27 26 00-0053 EA Locking 15 Amperes, 277 Volt Isolated Ground Receptacles.....	68.86	19.22
26 27 26 00-0054 EA Locking 20 Amperes, 120/208 Volt Isolated Ground Receptacles.....	93.29	23.07
26 27 26 00-0055 EA Locking 20 Amperes, 277/480 Volt Isolated Ground Receptacles.....	76.62	23.07
26 27 26 00-0056 EA Locking 20 Amperes, 347/600 Volt Isolated Ground Receptacles.....	95.27	23.07
26 27 26 00-0057 EA Locking 30 Amperes, 120/208 Volt Isolated Ground Receptacles.....	113.44	23.07
26 27 26 00-0058 EA Locking 30 Amperes, 277 Volt Isolated Ground Receptacles.....	116.00	30.76
26 27 26 00-0059 Explosion Proof Receptacles (26 27 26 00-0026)		
26 27 26 00-0060 EA 1/2", 20 Amperes, 2 Watt, 3 Pole, Type CPS Explosion Proof Receptacle Assembly.....	966.80	38.46
26 27 26 00-0061 EA 3/4", 20 Amperes, 2 Watt, 3 Pole, Type CPS Explosion Proof Receptacle Assembly.....	893.09	42.30
26 27 26 00-0062 EA 3/4", 30 Amperes, 2 Watt, 3 Pole, Type CES/CESD Explosion Proof Receptacle Assembly.....	1,487.03	76.91
26 27 26 00-0063 EA 3/4", 30 Amperes, 3 Watt, 4 Pole, Type CES/CESD Explosion Proof Receptacle Assembly.....	1,866.47	76.91
26 27 26 00-0064 EA 1-1/4", 60 Amperes, 2 Watt, 4 Pole, Type CES/CESD Explosion Proof Receptacle Assembly.....	2,367.83	115.36
26 27 26 00-0065 EA 1-1/4", 60 Amperes, 3 Watt, 4 Pole, Type CES/CESD Explosion Proof Receptacle Assembly.....	2,257.97	115.36
26 27 26 00-0066 Ground Fault Circuit Interrupter (GFCI) (26 27 26 00-0026)		
26 27 26 00-0067 EA 15 Amperes, Ground Fault Circuit Interrupter (GFCI), Duplex Receptacle.....	43.53	19.22
26 27 26 00-0068 EA 20 Amperes, Ground Fault Circuit Interrupter (GFCI), Duplex Receptacle.....	64.50	23.07
26 27 26 00-0069 Arc Fault Circuit Interrupter (AFCI) (26 27 26 00-0026)		
26 27 26 00-0070 EA 15 Amperes, 125 Volt Duplex Arc Fault Circuit Interrupter (AFCI), Tamper Resistant Receptacle.....	73.37	19.22
26 27 26 00-0071 EA 20 Amperes, 125 Volt Duplex Arc Fault Circuit Interrupter (AFCI), Tamper Resistant Receptacle.....	80.00	19.22
26 27 26 00-0072 Locking Receptacle (26 27 26 00-0026)		
26 27 26 00-0073 EA NEMA L5-15, 125 Volt, 2 Pole, 15 Amperes, Locking Receptacle.....	64.55	19.22
26 27 26 00-0074 EA NEMA L6-15, 250 Volt, 2 Pole, 15 Amperes, Locking Receptacle.....	78.09	19.22
26 27 26 00-0075 EA NEMA L5-20, 125 Volt, 2 Pole, 20 Amperes, Locking Receptacle.....	72.08	23.07
26 27 26 00-0076 EA NEMA L6-20, 250 Volt, 2 Pole, 20 Amperes, Locking Receptacle.....	71.48	23.07
26 27 26 00-0077 EA NEMA L8-20, 480 Volt, 2 Pole, 20 Amperes, Locking Receptacle.....	83.39	23.07
26 27 26 00-0078 EA NEMA L9-20, 600 Volt, 2 Pole, 20 Amperes, Locking Receptacle.....	98.79	23.07
26 27 26 00-0079 EA NEMA L10-20, 125/250 Volt, 3 Pole, 20 Amperes, Locking Receptacle.....	97.09	23.07
26 27 26 00-0080 EA NEMA L14-20, 125/250 Volt, 3 Pole, 20 Amperes, Locking Receptacle.....	85.83	23.07
26 27 26 00-0081 EA NEMA L5-30, 125 Volt, 2 Pole, 30 Amperes, Locking Receptacle.....	99.18	30.76
26 27 26 00-0082 EA NEMA L6-30, 250 Volt, 2 Pole, 30 Amperes, Locking, Receptacle.....	100.61	30.76
26 27 26 00-0083 EA NEMA L15-30, 250 Volt, 3 Pole, 30 Amperes, Locking Receptacle.....	123.36	30.76
26 27 26 00-0084 Hospital Grade Receptacle (26 27 26 00-0026)		
26 27 26 00-0085 EA 15 Amperes, Heavy Duty Hospital Grade, NEMA 5-15, Duplex Receptacle.....	63.71	15.39
26 27 26 00-0086 EA 20 Amperes, Heavy Duty Hospital Grade, NEMA 5-20, Duplex Receptacle.....	68.85	15.39
26 27 26 00-0087 EA 20 Amperes, Heavy Duty Hospital Grade, NEMA 5-20, Duplex Receptacle, Isolated Ground.....	78.58	15.39
26 27 26 00-0088 EA 20 Amperes, Extra Heavy Duty Hospital Grade, NEMA 5-20, Duplex Receptacle.....	69.58	15.39
26 27 26 00-0089 EA 20 Amperes, Extra Heavy Duty Hospital Grade, NEMA 5-20, Duplex Receptacle, Isolated Ground.....	79.65	15.39
26 27 26 00-0090 EA 20 Amperes, Non-Magnetic MRI Hospital Grade, NEMA 5-20, Duplex Receptacle.....	87.45	15.39
26 27 26 00-0091 EA 120 Volt, Transient Voltage, Surge Suppressor Receptacle.....	178.39	46.15
Note: Hospital grade receptacle.		
26 27 26 00-0092 Weathertight Pin And Sleeve Receptacle (26 27 26 00-0026)		
26 27 26 00-0093 EA 20 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 320R4W).....	305.45	76.91
26 27 26 00-0094 EA 20 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 320R6W).....	304.82	76.91
26 27 26 00-0095 EA 20 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 320R7W).....	316.64	76.91
26 27 26 00-0096 EA 20 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 420R12W).....	382.19	84.60
26 27 26 00-0097 EA 20 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 420R9W).....	383.17	84.60
26 27 26 00-0098 EA 20 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 420R7W).....	380.90	84.60
26 27 26 00-0099 EA 30 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 330R4W).....	453.48	94.60
26 27 26 00-0100 EA 30 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 330R6W).....	434.24	94.60
26 27 26 00-0101 EA 30 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 330R7W).....	464.35	94.60
26 27 26 00-0102 EA 30 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 430R12W).....	472.75	103.83
26 27 26 00-0103 EA 30 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 430R9W).....	472.37	103.83
26 27 26 00-0104 EA 30 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 430R7W).....	475.10	103.83
26 27 26 00-0105 EA 60 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 360R4W).....	654.76	123.05
26 27 26 00-0106 EA 60 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 360R6W).....	631.47	123.05
26 27 26 00-0107 EA 60 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 360R7W).....	646.63	123.05
26 27 26 00-0108 EA 60 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 460R12W).....	720.03	136.90
26 27 26 00-0109 EA 60 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 460R9W).....	720.48	136.90
26 27 26 00-0110 EA 60 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 460R7W).....	720.93	136.90
26 27 26 00-0111 EA 100 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 3100R6W).....	802.08	153.82
26 27 26 00-0112 EA 100 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 3100R7W).....	831.94	153.82
26 27 26 00-0113 EA 100 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 4100R12W).....	896.70	169.21
26 27 26 00-0114 EA 100 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 4100R9W).....	894.46	169.21
26 27 26 00-0115 EA 100 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 4100R7W).....	898.68	169.21



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 26 00-0116 Corrosion Resistant Receptacle <small>(26 27 26 00-0026)</small>		
26 27 26 00-0117 EA 15/20 Amperes, 125 Volt Corrosion Resistant, Power Receptacles	78.45	15.39
26 27 26 00-0118 EA 15/20 Amperes, 250 Volt Corrosion Resistant, Power Receptacles	151.16	19.22
26 27 26 00-0119 Tamper Resistant Receptacle <small>(26 27 26 00-0026)</small>		
26 27 26 00-0120 EA 15 Amperes, 125 Volt Duplex Tamper Resistant Receptacle	36.57	15.39
<small>Note: Pass & Seymour 3232-TR.</small>		
26 27 26 00-0121 EA 20 Amperes, 125 Volt Duplex Tamper Resistant Receptacle	39.56	15.39
<small>Note: Pass & Seymour TR20.</small>		
26 27 26 00-0122 EA 15 Amperes, 125 Volt Single Specification Grade Tamper Resistant Receptacle	48.15	15.39
<small>Note: Pass & Seymour TR5251.</small>		
26 27 26 00-0123 EA 20 Amperes, 125 Volt Single Specification Grade Tamper Resistant Receptacle	52.18	15.39
<small>Note: Pass & Seymour TR5351.</small>		
26 27 26 00-0124 EA 15 Amperes, 125 Volt Duplex Ground Fault Circuit Interrupter (GFCI), Tamper Resistant Receptacle.....	76.37	15.39
<small>Note: Pass & Seymour S1595-TR*CC8.</small>		
26 27 26 00-0125 EA 15 Amperes, 125 Volt Duplex Ground Fault Circuit Interrupter (GFCI), Specification Grade Tamper Resistant Receptacle.....	82.13	15.39
<small>Note: Pass & Seymour 1595-TRS.</small>		
26 27 26 00-0126 EA 20 Amperes, 125 Volt Duplex Ground Fault Circuit Interrupter (GFCI), Specification Grade Tamper Resistant Receptacle.....	87.64	15.39
<small>Note: Pass & Seymour 2095-TRS.</small>		
26 27 26 00-0127 USB Charger/Duplex Tamper-Resistant Receptacles <small>(26 27 26 00-0026)</small>		
26 27 26 00-0128 EA 15 Amperes, 125 Volt Duplex USB Charger/Duplex Tamper-Resistant Receptacle.....	78.47	15.39
26 27 26 00-0129 EA 20 Amperes, 125 Volt Duplex USB Charger/Duplex Tamper-Resistant Receptacle.....	84.44	15.39
26 27 26 00-0130 Television Receptacle <small>(26 27 26 00-0001)</small>		
26 27 26 00-0131 EA TV Receptacle With Cover (Type F), Complete	91.39	35.68
26 27 26 00-0132 Switches <small>(26 27 26)</small>		
26 27 26 00-0133 Switches <small>(26 27 26 00-0132)</small>		
26 27 26 00-0134 Switch Assemblies <small>(26 27 26 00-0133)</small>		
<small>Note: Includes 4" square steel box, bracket, mud ring, switch and cover plate.</small>		
26 27 26 00-0135 EA 1 Gang, 15 Amperes, 120/277 Volt, SPST, Switch Assembly	129.25	53.83
26 27 26 00-0136 EA 1 Gang, 20 Amperes, 120/277 Volt, SPST, Switch Assembly	138.97	58.45
26 27 26 00-0137 EA 2 Gang, 15 Amperes, 120/277 Volt, SPST, Switch Assembly	171.22	70.37
26 27 26 00-0138 EA 2 Gang, 20 Amperes, 120/277 Volt, SPST, Switch Assembly	187.59	78.07
26 27 26 00-0139 EA 3 Gang, 15 Amperes, 120/277 Volt, SPST, Switch Assembly	294.71	120.75
26 27 26 00-0140 EA 3 Gang, 20 Amperes, 120/277 Volt, SPST, Switch Assembly	319.26	132.29
26 27 26 00-0141 EA 4 Gang, 15 Amperes, 120/277 Volt, SPST, Switch Assembly	336.52	136.52
26 27 26 00-0142 EA 4 Gang, 20 Amperes, 120/277 Volt, SPST, Switch Assembly	369.26	151.89
26 27 26 00-0143 Switch Components <small>(26 27 26 00-0133)</small>		
26 27 26 00-0144 EA 15 Amperes, 120/277 Volt, SPST Switch	38.09	15.39
26 27 26 00-0145 EA 15 Amperes, 120/277 Volt, 3-Way Switch	48.10	19.22
26 27 26 00-0146 EA 15 Amperes, 120/277 Volt, 4-Way Switch	89.49	30.76
26 27 26 00-0147 EA 15 Amperes, 120/277 Volt, DPST Switch	42.36	15.39
26 27 26 00-0148 EA 15 Amperes, 120/277 Volt, Thermal Switch.....	74.91	19.22
26 27 26 00-0149 EA 20 Amperes, 120/277 Volt, SPST Switch	46.29	19.22
26 27 26 00-0150 EA 20 Amperes, 120/277 Volt, 3-Way Switch.....	56.85	23.07
26 27 26 00-0151 EA 20 Amperes, 120/277 Volt, 4-Way Switch	114.86	30.76
26 27 26 00-0152 EA 20 Amperes, 120/277 Volt, DPST Switch	53.13	19.22
26 27 26 00-0153 EA 20 Amperes, 120/277 Volt, DPDT Switch	56.15	19.22
26 27 26 00-0154 EA 15 Amperes, 120/277 Volt, Single Pole, Toggle, Three Position, Center Off, Momentary Contact Switch	90.62	19.25
26 27 26 00-0155 EA 15 Amperes, 120/277 Volt, Key Operated, Single Pole, Three Position, Center Off, Momentary Contact Switch	113.39	19.25
26 27 26 00-0156 EA Momentary Contact Switch With Separate Neon Pilot	87.95	23.10
<small>Note: Neon Pilot is 125 V, 1 / 125W.</small>		
26 27 26 00-0157 EA 20 Amperes, 125 Volt AC, Single Pole, Maintained Contact Switch With Center Off	69.02	26.92
<small>Note: Or 250 VAC 10 Amp, double throw BAT handle.</small>		
26 27 26 00-0158 EA 20 Amperes, 125 Volt AC, Double Pole, Maintained Contact Switch	83.66	30.76
<small>Note: Or 250 VAC 10 Amp, with center off double throw BAT handle.</small>		
26 27 26 00-0159 EA 20 Amperes, 125 Volt AC, Three Pole, Maintained Contact Switch.....	114.92	30.76
<small>Note: Or 250 VAC 10 Amp, with center off double throw BAT handle.</small>		
26 27 26 00-0160 EA 30 Amperes, 120/277 Volt, Single Pole, Local Switch	92.96	30.80
26 27 26 00-0161 EA 30 Amperes, 120/277 Volt, Double Pole, Local Switch.....	113.43	30.80
26 27 26 00-0162 EA 30 Amperes, 120/277 Volt, Three-Way Local Switch.....	119.65	38.51
26 27 26 00-0163 EA 30 Amperes, 120/277 Volt, Four-Way Local Switch.....	165.19	42.36
26 27 26 00-0164 EA 15 Amperes, 120/277 Volt, Local Switch With Neon Pilot.....	84.01	25.19
26 27 26 00-0165 EA 15 Amperes, 120/277 Volt, Local Switch With Separate Neon Pilot	115.21	25.19
<small>Note: Neon pilot is 125V, 1/25W. Requires 2 gang installation.</small>		
26 27 26 00-0166 EA 15 Amperes, 120 Volt, Clear Toggle, Lighted In On Position, Single Pole, Lighted Toggle Switch	101.76	25.19
26 27 26 00-0167 EA 15 Amperes, 120 Volt, Ivory Toggle, Lighted In Off Position, Lighted Toggle Switch	97.13	25.19
26 27 26 00-0168 EA 6 Amperes, 125 Volt, Door Open-Light On, Automatic Door Switch.....	102.48	12.48

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 27 Low-Voltage Distribution Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 26 00-0169 EA 6 Amperes, 125 Volt, Door Closed-Light On, Automatic Door Switch.....	108.76	12.48
26 27 26 00-0170 EA 15 Amperes, 120/277 Volt, Three Position, Center Off, Toggle, Single Pole Momentary Contact Switch	119.43	48.06
26 27 26 00-0171 EA Three Position, Center Off, Key Operated, Momentary Contact Switch	142.20	48.06
Note: 15A, 120/277 V, Single Pole		
26 27 26 00-0172 EA Single Pole, Slide Dimmer (Leviton IP710-LFZ)	165.14	15.41
26 27 26 00-0173 EA 8 Amperes, 120/277 Volt, 0 To 10 Volt Dimmer LED Control Switch, White (Lutron DVSTV-WH).....	91.46	15.41
26 27 26 00-0174 EA 120/277 Volt, (8 Amperes Lighting/3 Amperes Fan), Wireless Dimming Switch (Lutron MRF2-8S-DV-WH).....	275.62	15.39
26 27 26 00-0175 EA 120 Volt, Companion Wireless Dimmer Switch (Lutron MA-AS-WH).....	59.22	15.39
26 27 26 00-0176 EA 1200VA 0-10V LED And Fluorescent, Sunrise Electronic Wall Dimmer (Philips SR1200ZTUNV).....	97.08	15.41
26 27 26 00-0177 EA 1 Zone, 2 Button Wireless Scheduling Switch (LG 9SSA2B1T520.ALWB000).....	110.50	15.41
26 27 26 00-0178 EA 2 Zone, 4 Button Wireless Scheduling Switch (LG 9SSA2B2T520.ALWB000).....	139.80	15.41
26 27 26 00-0179 EA Wireless Single Rocker Remote Switch (Leviton WSS0S-S9).....	169.90	15.41
26 27 26 00-0180 Specialty Switches (26 27 26 00-0132)		
26 27 26 00-0181 Dimmers With SPST Switch (26 27 26 00-0180)		
26 27 26 00-0182 EA 600 Watt Dimmers With SPST Switch	85.06	34.61
26 27 26 00-0183 EA 1,000 Watt Dimmers With SPST Switch	134.53	34.61
26 27 26 00-0184 EA 1,500 Watt Dimmers With SPST Switch	239.16	55.69
26 27 26 00-0185 EA 2,000 Watt Dimmers With SPST Switch	302.28	55.69
26 27 26 00-0186 EA 600 Watt Fluorescent Dimmer Switch.....	173.05	41.07
26 27 26 00-0187 EA 1,000 Watt Fluorescent Dimmer Switch.....	227.36	41.07
26 27 26 00-0188 EA 1,500 Watt Fluorescent Dimmer Switch.....	405.68	61.99
26 27 26 00-0189 EA Remote Speed Switch For Paddle Fan.....	137.40	51.22
26 27 26 00-0190 EA 600 Watt Combination Remote Speed Switch/Incandescent Dimmer	222.81	76.45
26 27 26 00-0191 Time Switches (26 27 26 00-0180)		
26 27 26 00-0192 EA 40 Amperes, 125 Volt, SPST, Standard Time Switch	149.43	46.15
26 27 26 00-0193 EA 40 Amperes, 277 Volt, SPST, Standard Time Switch	152.29	46.15
26 27 26 00-0194 EA 40 Amperes, 125 Volt, DPST, Standard Time Switch	149.43	46.15
26 27 26 00-0195 EA 40 Amperes, 277 Volt, DPST, Standard Time Switch	152.29	46.15
26 27 26 00-0196 EA 40 Amperes, 125 Volt, SPST, 7-Day Time Switch	168.47	46.15
26 27 26 00-0197 EA 40 Amperes, 277 Volt, SPST, 7-Day Time Switch	168.47	46.15
26 27 26 00-0198 EA 40 Amperes, 125 Volt, DPDT, 7-Day Time Switch.....	280.85	46.15
26 27 26 00-0199 EA 40 Amperes, 277 Volt, DPDT, 7-Day Time Switch.....	280.85	46.15
26 27 26 00-0200 EA 20 Amperes, 125 Volt, SPST, Programmable Time Switch	244.79	46.15
26 27 26 00-0201 EA 20 Amperes, 277 Volt, SPST, Programmable Time Switch	266.81	46.15
26 27 26 00-0202 EA 20 Amperes, 277 Volt, SPST, Weatherproof Programmable Time Switch.....	266.81	46.15
26 27 26 00-0203 EA 40 Amperes, 125 Volt, 4PST, Astro Dial Time Switch	318.84	46.15
26 27 26 00-0204 EA 40 Amperes, 277 Volt, 4PST, Astro Dial Time Switch	327.60	46.15
26 27 26 00-0205 EA 40 Amperes, 125 Volt, SPST, Weatherproof Standard Time Switch	149.43	46.15
26 27 26 00-0206 EA 40 Amperes, 277 Volt, SPST, Weatherproof Standard Time Switch	152.29	46.15
26 27 26 00-0207 EA 40 Amperes, 125 Volt, DPST, Weatherproof Standard Time Switch	149.43	46.15
26 27 26 00-0208 EA 40 Amperes, 277 Volt, DPST, Weatherproof Standard Time Switch	152.29	46.15
26 27 26 00-0209 EA 40 Amperes, 125 Volt, SPST, Weatherproof 7-Day Time Switch	168.47	46.15
26 27 26 00-0210 EA 40 Amperes, 277 Volt, SPST, Weatherproof 7-Day Time Switch	168.47	46.15
26 27 26 00-0211 EA 40 Amperes, 125 Volt, DPDT, Weatherproof 7-Day Time Switch	280.85	46.15
26 27 26 00-0212 EA 40 Amperes, 277 Volt, DPDT, Weatherproof 7-Day Time Switch	280.85	46.15
26 27 26 00-0213 EA 40 Amperes, 125 Volt, 4PST, Weatherproof Astro Dial Time Switch	318.84	46.15
26 27 26 00-0214 EA 40 Amperes, 277 Volt, 4PST, Weatherproof Astro Dial Time Switch.....	327.60	46.15
26 27 26 00-0215 Low Voltage Switching (26 27 26 00-0180)		
26 27 26 00-0216 EA 36 Pin Male Or Female Connector	215.49	15.39
26 27 26 00-0217 Other Switches (26 27 26 00-0180)		
26 27 26 00-0218 EA Pull Chain Switch 120/277 Volt AC Installed In Light Fixture	49.68	23.07
26 27 26 00-0219 EA SPST Locking Switch For Concealed Devices	147.58	61.53
26 27 26 00-0220 EA 3-Way Locking Switch For Concealed Devices	149.14	61.53
26 27 26 00-0221 EA Emergency Off Switch, With 1 Non-Closing Contact, Circular, Red, With Guard	158.61	57.53
26 27 26 00-0222 EA 15 Amperes Momentary Contact Switch.....	152.37	57.53
26 27 26 00-0223 EA 20 Amperes Momentary Contact Switch.....	158.94	57.53
26 27 26 00-0224 EA 2-1/4" Handy Box Cover Units Fuseholder Switch.....	156.93	69.31
26 27 26 00-0225 EA 2-3/4" Handy Box Cover Units Fuseholder Switch.....	158.76	69.31
26 27 26 00-0226 EA 4" Square Box Cover Units With 2 Fuseholders And 2 Switches.....	195.06	84.71
26 27 26 00-0227 EA 4" Square Box Cover Units With 1 Fuseholder And 1 Switch	177.36	77.01
26 27 26 00-0228 EA 4" Octagon Box Cover Units With 1 Fuseholder And 1 Switch	177.82	77.01
26 27 26 00-0229 Plates And Covers (26 27 26)		
26 27 26 00-0230 Wall Plates (26 27 26 00-0229)		
26 27 26 00-0231 Nylon Wall Plates (26 27 26 00-0230)		
26 27 26 00-0232 EA 1 Gang Nylon Switch Wall Plates	2.28	0.77
26 27 26 00-0233 EA 2 Gang Nylon Switch Wall Plates	3.80	1.15
26 27 26 00-0234 EA 3 Gang Nylon Switch Wall Plates	5.37	1.54
26 27 26 00-0235 EA 4 Gang Nylon Switch Wall Plate	7.64	1.93



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 26 00-0236 EA 1 Gang Duplex Nylon Wall Plate.....	2.30	0.77
26 27 26 00-0237 EA 2 Gang Duplex Nylon Wall Plate.....	3.89	1.15
26 27 26 00-0238 Plastic Wall Plates (26 27 26 00-0230)		
26 27 26 00-0239 EA 1 Gang Plastic Switch Wall Plates.....	2.13	0.77
26 27 26 00-0240 EA 2 Gang Plastic Switch Wall Plates.....	3.51	1.15
26 27 26 00-0241 EA 3 Gang Plastic Switch Wall Plates.....	4.90	1.54
26 27 26 00-0242 EA 4 Gang Plastic Switch Wall Plates.....	7.64	1.93
26 27 26 00-0243 EA 1 Gang Duplex Plastic Wall Plate.....	2.13	0.77
26 27 26 00-0244 EA 2 Gang Duplex Plastic Wall Plate.....	3.52	1.15
26 27 26 00-0245 Brass Wall Plates (26 27 26 00-0230)		
26 27 26 00-0246 EA 1 Gang, 0.04" Brass Switch Wall Plates.....	20.98	3.46
26 27 26 00-0247 EA 2 Gang, 0.04" Brass Switch Wall Plates.....	38.48	4.00
26 27 26 00-0248 EA 3 Gang, 0.04" Brass Switch Wall Plates.....	55.86	4.46
26 27 26 00-0249 EA 4 Gang, 0.04" Brass Switch Wall Plates.....	86.21	4.85
26 27 26 00-0250 EA 5 Gang, 0.04" Brass Switch Wall Plates.....	104.76	5.16
26 27 26 00-0251 EA 6 Gang, 0.04" Brass Switch Wall Plates.....	121.06	5.39
26 27 26 00-0252 EA 1 Gang, 0.04" Brass Duplex Receptacle Wall Plate.....	20.98	3.46
26 27 26 00-0253 EA 2 Gang, 0.04" Brass Duplex Receptacle Wall Plate.....	44.88	4.00
26 27 26 00-0254 EA 3 Gang 0.04" Brass Duplex Receptacle Wall Plate.....	64.29	4.46
26 27 26 00-0255 Stainless Steel Wall Plates (26 27 26 00-0230)		
26 27 26 00-0256 EA 1 Gang, 302 Stainless Steel With Satin Finish Switch Wall Plates.....	11.74	3.46
26 27 26 00-0257 EA 2 Gang, 302 Stainless Steel With Satin Finish Switch Wall Plates.....	18.31	4.00
26 27 26 00-0258 EA 3 Gang, 302 Stainless Steel With Satin Finish Switch Wall Plates.....	25.23	4.46
26 27 26 00-0259 EA 4 Gang, 302 Stainless Steel With Satin Finish Switch Wall Plates.....	36.45	4.85
26 27 26 00-0260 EA 5 Gang, 302 Stainless Steel With Satin Finish Switch Wall Plates.....	42.75	5.16
26 27 26 00-0261 EA 6 Gang, 302 Stainless Steel With Satin Finish Switch Wall Plates.....	51.42	5.39
26 27 26 00-0262 EA 1 Gang, 302 Stainless Steel With Satin Finish Duplex Receptacle Wall Plate.....	12.76	3.46
26 27 26 00-0263 EA 2 Gang, 302 Stainless Steel With Satin Finish Duplex Receptacle Wall Plate.....	20.70	4.00
26 27 26 00-0264 EA 3 Gang, 302 Stainless Steel With Satin Finish Duplex Receptacle Wall Plate.....	33.15	4.46
26 27 26 00-0265 EA 4 Gang, 302 Stainless Steel With Satin Finish Duplex Receptacle Wall Plate.....	39.88	4.85
26 27 26 00-0266 Chrome Wall Plates (26 27 26 00-0230)		
26 27 26 00-0267 EA 1 Gang, 0.040" Chrome Switch Wall Plate.....	40.85	3.46
26 27 26 00-0268 EA 2 Gang 0.040" Chrome Switch Wall Plate.....	75.72	4.00
26 27 26 00-0269 EA 3 Gang 0.040" Chrome Switch Wall Plate.....	110.55	4.46
26 27 26 00-0270 EA 1 Gang 0.040" Chrome Duplex Receptacle Wall Plate.....	40.82	3.46
26 27 26 00-0271 Weatherproof Covers (26 27 26 00-0229)		
26 27 26 00-0272 Stamped Metallic Weatherproof Covers (26 27 26 00-0271)		
Note: Includes electrostatically applied powder coating and neoprene gasket.		
26 27 26 00-0273 EA Blank Cover, Single Gang, Stamped Metallic Weatherproof Cover (Killark® 1FBC).....	11.71	0.77
26 27 26 00-0274 EA Duplex Receptacle, Single Gang, Stamped Metallic Weatherproof Cover (Killark® 1FAC).....	12.66	0.77
26 27 26 00-0275 EA Single Receptacle, Single Gang, Stamped Metallic Weatherproof Cover (Killark® 1FRC).....	12.66	0.77
26 27 26 00-0276 EA Toggle Switch, Single Gang, Stamped Metallic Weatherproof Cover (Killark® 1FTC).....	12.66	0.77
26 27 26 00-0277 EA Blank Cover, Two Gang, Stamped Metallic Weatherproof Cover (Killark® 2FBC).....	15.64	1.15
26 27 26 00-0278 EA Duplex Receptacle, Two Gang, Stamped Metallic Weatherproof Cover (Killark® 2FAC).....	17.67	1.15
26 27 26 00-0279 EA Single Receptacle, Two Gang, Stamped Metallic Weatherproof Cover (Killark® 2FRC).....	17.87	1.15
26 27 26 00-0280 EA Toggle Switch, Two Gang, Stamped Metallic Weatherproof Cover (Killark® 2FTC).....	17.87	1.15
26 27 26 00-0281 EA Toggle Switch And Duplex Receptacle, Two Gang, Stamped Metallic Weatherproof Cover (Killark® 2FTAC).....	24.07	1.15
26 27 26 00-0282 EA Blank Cover, Three Gang, Stamped Metallic Weatherproof Cover (Killark® 3FB).....	23.05	1.54
26 27 26 00-0283 EA Toggle Switch, Three Gang, Stamped Metallic Weatherproof Cover (Killark® 3FT).....	25.12	1.54
26 27 26 00-0284 Cast Metallic Weatherproof Covers (26 27 26 00-0271)		
Note: Includes electrostatically applied powder coating and neoprene gasket.		
26 27 26 00-0285 EA Blank Cover, Single Gang, Cast Metallic Weatherproof Cover (Killark® FSBC).....	14.25	0.77
26 27 26 00-0286 EA Duplex Receptacle, Single Gang, Cast Metallic Weatherproof Cover With Self Closing Lid (Killark® FCLA).....	44.58	0.77
26 27 26 00-0287 EA Single Receptacle, Single Gang, Cast Metallic Weatherproof Cover With Self Closing Lid (Killark® FCLR).....	49.94	0.77
26 27 26 00-0288 EA Guarded Toggle Switch, Single Gang, Cast Metallic Weatherproof Cover (Killark® FSTG).....	14.14	0.77
26 27 26 00-0289 EA Toggle Switch, Single Gang, Cast Metallic Weatherproof Cover With Self Closing Lid (Killark® FCLT).....	37.85	0.77
26 27 26 00-0290 EA Lever Operated Toggle Switch, Single Gang, Cast Metallic Weatherproof Cover (Killark® FSPT).....	62.69	0.77
26 27 26 00-0291 EA Plunger Operated Toggle Switch, Single Gang, Cast Metallic Weatherproof Cover (Killark® FST).....	79.70	0.77
26 27 26 00-0292 EA Blank Cover, Two Gang, Cast Metallic Weatherproof Cover (Killark® 2FSBC).....	17.87	1.15
26 27 26 00-0293 EA Plunger Operated Toggle Switch, Two Gang, Cast Metallic Weatherproof Cover (Killark® 2FST).....	125.86	1.15
26 27 26 00-0294 EA Blank Cover, Three Gang, Cast Metallic Weatherproof Cover (Killark® 3FSBC).....	29.70	1.54
26 27 26 00-0295 EA Plunger Operated Toggle Switch, Three Gang, Cast Metallic Weatherproof Cover (Killark® 3FST).....	120.47	1.54
26 27 26 00-0296 Die Cast Aluminum Weatherproof Covers (26 27 26 00-0271)		
Note: Includes electrostatically applied powder coating and neoprene gasket.		
26 27 26 00-0297 EA Duplex Receptacle, Single Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5027).....	5.85	0.77
26 27 26 00-0298 EA Single Receptacle, Single Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5026).....	7.43	0.77

26	Electrical
26 20	Low-Voltage Electrical Distribution
26 27	Low-Voltage Distribution Equipment



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 26 00-0299 EA Duplex Receptacles, Two Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5032).....	10.01	1.15
26 27 26 00-0300 EA Toggle Switch, Two Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5041)	10.83	1.15
26 27 26 00-0301 EA Toggle Switch And Duplex Receptacle, Two Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5042)	10.83	1.15
26 27 26 00-0302 EA Toggle Switch And Single Receptacle, Two Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5043)	12.02	1.15
26 27 26 00-0303 Heavy Duty Die Cast Aluminum Weatherproof Covers (26 27 26 00-0271) Note: Includes baked on lacquer finish and neoprene gasket.		
26 27 26 00-0304 EA Duplex Receptacle, Single Gang, Heavy Duty Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Pass & Seymour Legrand® 4510).....	57.21	0.77
26 27 26 00-0305 Polycarbonate Weatherproof Covers (26 27 26 00-0271) Note: Includes neoprene gasket.		
26 27 26 00-0306 EA Toggle Switch, Single Gang, Polycarbonate Weatherproof Cover With Tinted Lid (Bell® 5730)	11.75	0.77
26 27 26 00-0307 EA Duplex Receptacle, Single Gang, Polycarbonate Weatherproof Cover With Tinted Lid (Bell® 5730)	11.75	0.77
26 27 26 00-0308 EA Single Receptacle, Single Gang, Polycarbonate Weatherproof Cover With Tinted Lid (Bell® 5730)	11.75	0.77
26 27 26 00-0309 EA Duplex Receptacle, Two Gang, Polycarbonate Weatherproof Cover With Tinted Lid (Bell® 5775)	14.60	1.15
26 27 26 00-0310 EA Toggle Switch And Single Receptacle, Two Gang, Polycarbonate Weatherproof Cover With Tinted Lid (Bell® 5775)	14.60	1.15
26 27 26 00-0311 High Impact Thermoplastic Weatherproof Covers (26 27 26 00-0271) Note: Includes neoprene gasket.		
26 27 26 00-0312 EA Duplex Receptacle, Single Gang, High Impact Thermoplastic Weatherproof Cover With Self Closing Lid (Hubbell® HBL522)	91.79	0.77
26 27 26 00-0313 Non-Metallic (PVC) Weatherproof Covers (26 27 26 00-0271) Note: Includes neoprene gasket.		
26 27 26 00-0314 EA Blank Cover, Single Gang, Non-Metallic (PVC) Weatherproof Cover	13.26	0.77
26 27 26 00-0315 EA Blank Cover, Two Gang, Non-Metallic (PVC) Weatherproof Cover	14.37	1.15
26 27 26 00-0316 EA Toggle Switch, Single Gang, Non-Metallic (PVC) Weatherproof Cover	13.30	0.77
26 27 26 00-0317 EA Switch, Single Gang, Non-Metallic (PVC) Weatherproof Cover	28.93	0.77
26 27 26 00-0318 EA Duplex Receptacle, Single Gang, Non-Metallic (PVC) Weatherproof Cover	33.48	0.77
26 27 26 00-0319 EA 20 Amperes, Receptacle, Single Gang, Non-Metallic (PVC) Weatherproof Cover	27.20	0.77
26 27 26 00-0320 EA 30 Amperes, Receptacle, Single Gang, Non-Metallic (PVC) Weatherproof Cover	20.35	0.77
26 27 26 00-0321 EA 50 Amperes, Receptacle, Single Gang, Non-Metallic (PVC) Weatherproof Cover	23.76	0.77
26 27 26 00-0322 EA Plunger Switch, Single Gang, Non-Metallic (PVC) Weatherproof Cover	21.28	0.77
26 27 26 00-0323 EA Double Duplex Receptacle, Two Gang, Non-Metallic (PVC) Weatherproof Cover	30.65	1.15
26 27 26 00-0324 Removal And Reinstallation Of Wiring Devices (26 27 26) Note: Includes storage and cleaning.		
26 27 26 00-0325 EA Removal And Reinstallation Of Receptacle, Switch, Outlet Or Special System Device	101.20	
26 27 26 00-0326 EA Removal And Reinstallation Of Receptacle Or Switch Outlet Cover Plate	12.82	
26 27 26 00-0327 Relay Systems (26 27 26)		
26 27 26 00-0328 EA 10 Amperes, 24 Volt Coil, 2 Position Relay	109.38	34.61
26 27 26 00-0329 EA 20 Amperes, 120 Volt Coil, Up To 4 Contacts, Industrial Control Relay	450.12	115.36
26 27 26 00-0330 EA 20 Amperes, 120 Volt Coil, 12 Contacts, Industrial Control Relay	746.79	153.82
26 27 26 00-0331 Limit Switches (26 27 26)		
26 27 26 00-0332 Heavy Duty Precision Oiltight (26 27 26 00-0331)		
26 27 26 00-0333 Lever Arm, Plunger, Wobble Stick Type (26 27 26 00-0332)		
26 27 26 00-0334 EA Limit Switch, Heavy Duty, Lever Arm Weatherproof, 10 Amperes Rated	488.19	96.91
26 27 26 00-0335 In Line Midget Fuseholders (26 27 26) See CSI section 26 28 13 00-0078 for fuses.		
26 27 26 00-0336 EA Single Pole Water Resistant In Line Midget Fuseholder	102.60	
26 27 26 00-0337 EA Double Pole Water Resistant In Line Midget Fuseholder	222.81	
26 27 33 Power Distribution Units (26 27) Note: Includes wiring connections and testing.		
26 27 33 00-0001 Liebert Precision Power Center (26 27 33) Note: With K20 Trans Spike Suppression Modules Lighting/ Surge Arrestors. Includes start-up.		
26 27 33 00-0002 EA PDU 15 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC015C)	21,359.51	473.01
26 27 33 00-0003 EA PDU 30 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC030C)	25,770.93	512.68
26 27 33 00-0004 EA PDU 50 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC050C)	29,364.87	569.14
26 27 33 00-0005 EA PDU 75 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC075C)	33,773.38	615.28
26 27 33 00-0006 EA PDU 100 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC100C)	36,886.43	769.11
26 27 33 00-0007 EA PDU 125 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC125C)	41,402.20	922.93
26 27 33 00-0008 EA PDU 150 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC150C)	47,774.48	1,076.75



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 33 00-0009 EA PDU 200 KVA, 480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC200C).....	50,268.70	1,230.58
26 27 33 00-0010 EA PDU 225 KVA, 480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC225C).....	53,134.22	1,384.39
26 27 33 00-0011 EA Ex Panelboard 10-30 KVA.....	1,933.14	153.82
26 27 33 00-0012 EA Ex Panelboard 50-125 KVA.....	2,876.42	192.28
26 27 33 00-0013 EA Ex Panelboard 150-220 KVA.....	6,418.84	230.73
26 27 33 00-0014 EA Removal And Reinstallation Of Power Distribution Unit.....	2,461.14	
Note: Includes disconnection / reconnection of branch circuits, storage and cleaning.		
26 27 33 00-0015 EA Start-Up Liebert Power Distribution Unit Line Item Applies To A Relocation Only.....	1,845.86	
26 27 73 Door Chimes (26 27)		
26 27 73 00-0001 Door Bell Chime And Door Button With Built-In Viewer (26 27 73)		
Note: Non-electric chime, mounted on door		
26 27 73 00-0002 EA Mechanical Door Bell Chime And Door Button With Built-In Viewer (Newhouse Hardware MCHBV).....	87.49	19.06
26 27 73 00-0003 Wireless Door Bell System (26 27 73)		
26 27 73 00-0004 EA Wireless Doorbell Chime And Push Button (Broan LA542WH).....	156.75	
Note: Includes 2 push buttons		
26 27 73 00-0005 EA Wireless Doorbell Chime And Push Button (STI-3350G).....	148.51	
Note: Includes 2 push buttons		
26 27 73 00-0006 EA Wireless Doorbell Chime And Push Button (GE 19300).....	114.82	
Note: Includes 2 push buttons		
26 27 73 00-0007 Door Chimes (26 27 73)		
26 27 73 00-0008 EA Door Bell, Push-Button And Transformer, Complete.....	795.28	320.41
26 27 73 00-0009 EA Visual Flashing Doorbell Indicator, Wire To Existing System, Complete.....	298.75	76.91
26 27 73 00-0010 EA Removal And Replacement Of Bell/Buzzer, Complete.....	124.52	38.46
Note: Includes removal of existing.		
26 28 Low-Voltage Circuit Protective Devices (26 20)		
26 28 13 Fuses (26 28)		
26 28 13 00-0001 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuses (26 28 13)		
26 28 13 00-0002 EA 1 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse.....	32.58	11.08
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	7.38	
26 28 13 00-0003 EA 2 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse.....	31.95	11.08
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	7.38	
26 28 13 00-0004 EA 3 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse.....	31.09	11.08
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	7.38	
26 28 13 00-0005 EA 5 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse.....	30.96	11.08
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	7.38	
26 28 13 00-0006 EA 6 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse.....	31.77	11.08
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	7.38	
26 28 13 00-0007 EA 8 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse.....	30.19	11.08
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	7.38	
26 28 13 00-0008 EA 10 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse.....	29.82	11.08
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	7.38	
26 28 13 00-0009 EA 15 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse.....	26.75	11.08
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	7.38	
26 28 13 00-0010 EA 20 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse.....	26.28	11.08
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	7.38	
26 28 13 00-0011 EA 25 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse.....	27.17	11.08
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	7.38	
26 28 13 00-0012 EA 30 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse.....	26.55	11.08
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	7.38	
26 28 13 00-0013 Class RK1, Time Delay Fuses (26 28 13)		
26 28 13 00-0014 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuses (26 28 13 00-0013)		
26 28 13 00-0015 EA 1 Ampere, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	47.71	11.08
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	7.38	
26 28 13 00-0016 EA 2 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	44.92	11.08
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	7.38	
26 28 13 00-0017 EA 3 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	46.86	11.08
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	7.38	
26 28 13 00-0018 EA 4 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	46.61	11.08
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	7.38	
26 28 13 00-0019 EA 5 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	44.67	11.08
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	7.38	
26 28 13 00-0020 EA 10 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	43.51	11.08
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	7.38	
26 28 13 00-0021 EA 15 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	40.43	11.08
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	7.38	
26 28 13 00-0022 EA 20 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	40.20	11.08
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	7.38	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 13 00-0062 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuses ^(26 28)		
13 00-0013		
26 28 13 00-0063 EA 70 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	151.81	13.84
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.23	
26 28 13 00-0064 EA 80 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	156.09	15.23
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.15	
26 28 13 00-0065 EA 90 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	155.29	15.23
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.15	
26 28 13 00-0066 EA 100 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	155.92	15.23
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.15	
26 28 13 00-0067 EA 110 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	278.99	15.23
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.15	
26 28 13 00-0068 EA 125 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	283.08	15.23
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.15	
26 28 13 00-0069 EA 150 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	281.43	18.76
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.46	
26 28 13 00-0070 EA 200 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	280.76	18.76
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.46	
26 28 13 00-0071 EA 250 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	526.03	18.76
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.46	
26 28 13 00-0072 EA 300 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	531.47	22.92
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.23	
26 28 13 00-0073 EA 350 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	597.72	22.92
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.23	
26 28 13 00-0074 EA 400 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	542.73	22.92
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.23	
26 28 13 00-0075 EA 450 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	964.87	22.92
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.23	
26 28 13 00-0076 EA 500 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	863.57	27.69
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.46	
26 28 13 00-0077 EA 600 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	755.14	27.69
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.46	
26 28 13 00-0078 600 Volt AC, Class CC Midget Fuses ^(26 28 13)		
Note: 250/300 Volt DC.		
26 28 13 00-0079 EA 1 Amperes, 600 Volt AC, Class CC Midget Fuse.....	54.03	11.08
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.38	
26 28 13 00-0080 EA 2 Amperes, 600 Volt AC, Class CC Midget Fuse.....	54.77	11.08
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.38	
26 28 13 00-0081 EA 3 Amperes, 600 Volt AC, Class CC Midget Fuse.....	54.56	11.08
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.38	
26 28 13 00-0082 EA 5 Amperes, 600 Volt AC, Class CC Midget Fuse.....	54.33	11.08
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.38	
26 28 13 00-0083 EA 6 Amperes, 600 Volt AC, Class CC Midget Fuse.....	57.81	11.08
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.38	
26 28 13 00-0084 EA 8 Amperes, 600 Volt AC, Class CC Midget Fuse.....	52.24	11.08
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.38	
26 28 13 00-0085 EA 10 Amperes, 600 Volt AC, Class CC Midget Fuse.....	58.78	11.08
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.38	
26 28 13 00-0086 EA 15 Amperes, 600 Volt AC, Class CC Midget Fuse.....	54.35	11.08
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.38	
26 28 13 00-0087 EA 20 Amperes, 600 Volt AC, Class CC Midget Fuse.....	53.44	11.08
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.38	
26 28 13 00-0088 EA 25 Amperes, 600 Volt AC, Class CC Midget Fuse.....	51.35	11.08
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.38	
26 28 13 00-0089 EA 30 Amperes, 600 Volt AC, Class CC Midget Fuse.....	53.13	11.08
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.38	
26 28 13 00-0090 200,000 Ampere Interrupting Capacity, 600 Volt AC, Class J Bolted Fuse ^(26 28 13)		
26 28 13 00-0091 EA 1 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	65.86	7.69
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.62	
26 28 13 00-0092 EA 3 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	66.35	7.69
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.62	
26 28 13 00-0093 EA 6 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	58.43	9.23
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.54	
26 28 13 00-0094 EA 10 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	59.16	11.54
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.92	
26 28 13 00-0095 EA 15 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	60.32	11.54
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.92	
26 28 13 00-0096 EA 20 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	59.29	11.54
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.92	
26 28 13 00-0097 EA 25 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	75.83	15.39
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.23	
26 28 13 00-0098 EA 30 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	64.25	15.39
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.23	
26 28 13 00-0099 EA 35 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	107.47	15.39
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.23	
26 28 13 00-0100 EA 40 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	92.58	15.39
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.23	
26 28 13 00-0101 EA 45 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	105.19	15.39
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.23	

26 Electrical
26 20 Low-Voltage Electrical Distribution
26 28 Low-Voltage Circuit Protective Devices



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 13 00-0102 EA 50 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	95.77 11.54	19.22
26 28 13 00-0103 EA 60 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	94.16 11.54	19.22
26 28 13 00-0104 EA 70 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	143.32 13.85	23.07
26 28 13 00-0105 EA 80 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	152.16 13.85	23.07
26 28 13 00-0106 EA 90 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	149.90 13.85	23.07
26 28 13 00-0107 EA 100 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	134.16 16.15	26.92
26 28 13 00-0108 EA 110 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	298.99 16.15	26.92
26 28 13 00-0109 EA 125 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	255.80 16.15	26.92
26 28 13 00-0110 EA 150 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	246.05 18.46	30.76
26 28 13 00-0111 EA 175 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	249.49 18.46	30.76
26 28 13 00-0112 EA 200 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	209.31 18.46	30.76
26 28 13 00-0113 EA 225 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	509.81 18.46	30.76
26 28 13 00-0114 EA 250 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	472.31 18.46	30.76
26 28 13 00-0115 EA 300 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	436.22 18.46	30.76
26 28 13 00-0116 EA 350 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	474.63 18.46	30.76
26 28 13 00-0117 EA 400 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	395.68 20.77	34.61
26 28 13 00-0118 EA 450 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	824.21 20.77	34.61
26 28 13 00-0119 EA 500 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	703.36 23.07	38.46
26 28 13 00-0120 EA 600 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	527.31 23.07	38.46
26 28 13 00-0121 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuses (26 28 13)		
26 28 13 00-0122 EA 100 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,557.29 11.54	19.22
26 28 13 00-0123 EA 150 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,560.35 11.54	19.22
26 28 13 00-0124 EA 200 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,563.20 11.54	19.22
26 28 13 00-0125 EA 250 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,559.94 13.85	23.07
26 28 13 00-0126 EA 300 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,437.50 13.85	23.07
26 28 13 00-0127 EA 350 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,539.15 16.15	26.92
26 28 13 00-0128 EA 400 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,417.60 16.15	26.92
26 28 13 00-0129 EA 450 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,584.05 16.15	26.92
26 28 13 00-0130 EA 500 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,553.39 16.15	26.92
26 28 13 00-0131 EA 600 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,384.78 18.46	30.76
26 28 13 00-0132 EA 601 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,421.67 18.46	30.76
26 28 13 00-0133 EA 650 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,885.36 18.46	30.76
26 28 13 00-0134 EA 700 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,378.09 18.46	30.76
26 28 13 00-0135 EA 750 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,110.21 20.77	34.61
26 28 13 00-0136 EA 800 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,222.38 20.77	34.61
26 28 13 00-0137 EA 900 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,777.50 20.77	34.61
26 28 13 00-0138 EA 1,000 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,202.09 20.77	34.61
26 28 13 00-0139 EA 1,200 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,237.38 20.77	34.61
26 28 13 00-0140 EA 1,350 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,730.69 20.77	34.61
26 28 13 00-0141 EA 1,400 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,692.56 20.77	34.61
26 28 13 00-0142 EA 1,500 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,430.91 20.77	34.61



Electrical	26	26
Low-Voltage Electrical Distribution	26 20	
Low-Voltage Circuit Protective Devices	26 28	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 13 00-0143 EA 1,600 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	1,526.77	38.46
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.07	
26 28 13 00-0144 EA 1,800 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	3,215.21	38.46
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.07	
26 28 13 00-0145 EA 2,000 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	2,064.96	38.46
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.07	
26 28 13 00-0146 EA 2,500 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	2,785.04	38.46
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.07	
26 28 13 00-0147 EA 2,501 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	4,731.47	38.46
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.07	
26 28 13 00-0148 EA 3,000 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	3,104.45	42.30
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.38	
26 28 13 00-0149 EA 3,500 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	6,398.24	42.30
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.38	
26 28 13 00-0150 EA 3,800 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	7,420.90	42.30
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.38	
26 28 13 00-0151 EA 4,000 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	4,299.65	42.30
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.38	
26 28 13 00-0152 EA 5,000 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	6,773.74	42.30
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.38	
26 28 13 00-0153 EA 6,000 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	11,199.87	42.30
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.38	

26 28 16 Enclosed Switches and Circuit Breakers (26 28)

26 28 16 13 Enclosed Circuit Breakers (26 28 16)

26 28 16 13-0001 Branch Circuit Breakers (26 28 16 13)

Note: For installation in existing and new panelboards. Use task modifier for installation in new panelboards.

26 28 16 13-0002 Branch Circuit Breakers 10,000 Amperes Interrupting Capacity, Plug-On (26 28 16 13-0001)

Note: Includes connection of electrical wire.

26 28 16 13-0003 EA 1 Pole, 120/240 Volt, 15 To 30 Amperes, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity.....	71.69	27.69
For Bolt-On, Add	19.73	
For Installation In New Panelboard, Deduct	-15.38	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.46	
26 28 16 13-0004 EA 1 Pole, 120/240 Volt, 35 To 60 Amperes, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity.....	71.69	27.69
For Bolt-On, Add	19.73	
For Installation In New Panelboard, Deduct	-15.38	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.46	
26 28 16 13-0005 EA 1 Pole, 120/240 Volt, 70 To 100 Amperes, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity.....	100.36	34.61
For Bolt-On, Add	26.00	
For Installation In New Panelboard, Deduct	-19.23	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.07	
26 28 16 13-0006 EA 1 Pole GFI, 15 To 30 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity.....	140.67	34.61
For Bolt-On, Add	31.04	
For Installation In New Panelboard, Deduct	-19.23	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.07	
26 28 16 13-0007 EA 1 Pole GFI, 35 To 60 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Protection Circuit Breaker, 10,000 Amperes Interrupting Capacity.....	186.77	34.61
For Bolt-On, Add	36.81	
For Installation In New Panelboard, Deduct	-19.23	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.07	
26 28 16 13-0008 EA 1 Pole GFI, 15 To 30 Amperes, 120/240 Volt, UL Listed 30mA Equipment Protection Circuit Breaker, 10,000 Amperes Interrupting Capacity.....	213.05	34.61
For Bolt-On, Add	40.09	
For Installation In New Panelboard, Deduct	-19.23	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.07	
26 28 16 13-0009 EA 1 Pole GFI, 15 To 20 Amperes, 120/240 Volt, "Arc Fault" Circuit Breaker, 10,000 Amperes Interrupting Capacity.....	115.27	34.61
For Bolt-On, Add	27.87	
For Installation In New Panelboard, Deduct	-19.23	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.07	
26 28 16 13-0010 EA 2 Pole, 15 To 30 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity.....	115.74	41.53
For Bolt-On, Add	30.62	
For Installation In New Panelboard, Deduct	-23.07	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.69	
26 28 16 13-0011 EA 2 Pole, 35 To 60 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity.....	115.74	41.53
For Bolt-On, Add	30.62	
For Installation In New Panelboard, Deduct	-23.07	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.69	
26 28 16 13-0012 EA 2 Pole, 70 To 100 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity.....	169.95	55.38
For Bolt-On, Add	42.78	
For Installation In New Panelboard, Deduct	-30.76	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.92	

26 Electrical
26 20 Low-Voltage Electrical Distribution
26 28 Low-Voltage Circuit Protective Devices



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 13-0013 EA 2 Pole, 110 To 125 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	267.17	69.22
For Bolt-On, Add	60.31	
For Installation In New Panelboard, Deduct	-38.46	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	46.15	
26 28 16 13-0014 EA 2 Pole, 150 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	311.47	76.91
For Bolt-On, Add	68.55	
For Installation In New Panelboard, Deduct	-42.30	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	50.76	
26 28 16 13-0015 EA 2 Pole GFI, 15 To 50 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	254.75	49.23
For Bolt-On, Add	51.23	
For Installation In New Panelboard, Deduct	-27.69	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.23	
26 28 16 13-0016 EA 2 Pole GFI, 15 To 50 Amperes, 120/240 Volt, UL Listed 30mA Equipment Protection Circuit Breaker, 10,000 Amperes Interrupting Capacity	330.15	49.23
For Bolt-On, Add	60.65	
For Installation In New Panelboard, Deduct	-27.69	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.23	
26 28 16 13-0017 EA 3 Pole, 15 To 30 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	205.12	55.38
For Bolt-On, Add	47.17	
For Installation In New Panelboard, Deduct	-30.76	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.92	
26 28 16 13-0018 EA 3 Pole, 35 To 60 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	205.12	55.38
For Bolt-On, Add	47.17	
For Installation In New Panelboard, Deduct	-30.76	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.92	
26 28 16 13-0019 EA 3 Pole, 70 To 100 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	266.73	69.22
For Bolt-On, Add	60.26	
For Installation In New Panelboard, Deduct	-38.46	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	46.15	
26 28 16 13-0020 EA 3 Pole, 110 To 125 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	389.70	83.06
For Bolt-On, Add	81.01	
For Installation In New Panelboard, Deduct	-46.15	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	55.37	
26 28 16 13-0021 EA 3 Pole, 150 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity	491.42	96.91
For Bolt-On, Add	99.11	
For Installation In New Panelboard, Deduct	-53.84	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	64.61	
26 28 16 13-0022 Branch Circuit Breakers 14,000 Amperes Interrupting Capacity, Plug-On ^{(26 28}		
^{16 13-0001)}		
Note: Includes connection of electrical wire.		
26 28 16 13-0023 EA 1 Pole, 277/480 Volt, 15 To 30 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	95.58	27.69
For Bolt-On, Add	22.72	
For Installation In New Panelboard, Deduct	-15.38	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.46	
26 28 16 13-0024 EA 1 Pole, 277/480 Volt, 35 To 60 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	95.58	27.69
For Bolt-On, Add	22.72	
For Installation In New Panelboard, Deduct	-15.38	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.46	
26 28 16 13-0025 EA 1 Pole, 277/480 Volt, 70 To 100 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	161.42	34.61
For Bolt-On, Add	33.64	
For Installation In New Panelboard, Deduct	-19.23	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.07	
26 28 16 13-0026 EA 1 Pole GFI, 277/480 Volt, 15 To 60 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	238.92	34.61
For Bolt-On, Add	43.32	
For Installation In New Panelboard, Deduct	-19.23	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.07	
26 28 16 13-0027 EA 2 Pole, 277/480 Volt, 15 To 30 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	178.62	41.53
For Bolt-On, Add	38.48	
For Installation In New Panelboard, Deduct	-23.07	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.69	
26 28 16 13-0028 EA 2 Pole, 277/480 Volt, 35 To 60 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	178.62	41.53
For Bolt-On, Add	38.48	
For Installation In New Panelboard, Deduct	-23.07	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.69	
26 28 16 13-0029 EA 2 Pole, 277/480 Volt, 70 To 100 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	335.16	55.38
For Bolt-On, Add	63.43	
For Installation In New Panelboard, Deduct	-30.76	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.92	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 13-0030 EA 2 Pole, 277/480 Volt, 110 To 125 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	452.71	69.22
For Bolt-On, Add	83.51	
For Installation In New Panelboard, Deduct	-38.46	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	46.15	
26 28 16 13-0031 EA 2 Pole, 277/480 Volt, 150 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	649.17	76.91
For Bolt-On, Add	110.76	
For Installation In New Panelboard, Deduct	-42.30	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	50.76	
26 28 16 13-0032 EA 3 Pole, 277/480 Volt, 15 To 30 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	278.08	55.38
For Bolt-On, Add	56.29	
For Installation In New Panelboard, Deduct	-30.76	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.92	
26 28 16 13-0033 EA 3 Pole, 277/480 Volt, 35 To 60 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	278.08	55.38
For Bolt-On, Add	56.29	
For Installation In New Panelboard, Deduct	-30.76	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.92	
26 28 16 13-0034 EA 3 Pole, 277/480 Volt, 70 To 100 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	407.34	69.22
For Bolt-On, Add	77.84	
For Installation In New Panelboard, Deduct	-38.46	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	46.15	
26 28 16 13-0035 EA 3 Pole, 277/480 Volt, 110 To 125 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	569.82	83.06
For Bolt-On, Add	103.53	
For Installation In New Panelboard, Deduct	-46.15	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	55.37	
26 28 16 13-0036 EA 3 Pole, 277/480 Volt, 150 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	862.40	96.91
For Bolt-On, Add	145.49	
For Installation In New Panelboard, Deduct	-53.84	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	64.61	
26 28 16 13-0037 EA 3 Pole, 277/480 Volt, 175 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	990.18	103.83
For Bolt-On, Add	164.15	
For Installation In New Panelboard, Deduct	-57.68	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	69.22	
26 28 16 13-0038 EA 3 Pole, 277/480 Volt, 200 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	1,063.28	110.75
For Bolt-On, Add	175.98	
For Installation In New Panelboard, Deduct	-61.53	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	73.84	
26 28 16 13-0039 EA 3 Pole, 277/480 Volt, 225 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity	1,249.79	117.68
For Bolt-On, Add	201.99	
For Installation In New Panelboard, Deduct	-65.38	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	78.45	
26 28 16 13-0040 Branch Circuit Breakers 18,000 Amperes Interrupting Capacity, Plug-On ^(26 28)		
^{16 13-0001}		
Note: Includes connection of electrical wire.		
26 28 16 13-0041 EA 15 To 30 Amperes, 1 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	111.27	27.69
For Bolt-On, Add	24.68	
For Installation In New Panelboard, Deduct	-15.38	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.46	
26 28 16 13-0042 EA 35 To 60 Amperes, 1 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	111.27	27.69
For Bolt-On, Add	24.68	
For Installation In New Panelboard, Deduct	-15.38	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.46	
26 28 16 13-0043 EA 70 To 100 Amperes, 1 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	176.92	34.61
For Bolt-On, Add	35.57	
For Installation In New Panelboard, Deduct	-19.23	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.07	
26 28 16 13-0044 EA 15 To 30 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	219.53	41.53
For Bolt-On, Add	43.59	
For Installation In New Panelboard, Deduct	-23.07	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.69	
26 28 16 13-0045 EA 35 To 60 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	219.53	41.53
For Bolt-On, Add	43.59	
For Installation In New Panelboard, Deduct	-23.07	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.69	
26 28 16 13-0046 EA 70 To 100 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	374.39	55.38
For Bolt-On, Add	68.33	
For Installation In New Panelboard, Deduct	-30.76	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.92	

26 Electrical
26 20 Low-Voltage Electrical Distribution
26 28 Low-Voltage Circuit Protective Devices



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 13-0047 EA 110 To 125 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	915.17	69.22
For Bolt-On, Add	141.31	
For Installation In New Panelboard, Deduct	-38.46	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	46.15	
26 28 16 13-0048 EA 15 To 30 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	345.59	55.38
For Bolt-On, Add	64.73	
For Installation In New Panelboard, Deduct	-30.76	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.92	
26 28 16 13-0049 EA 35 To 60 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	345.59	55.38
For Bolt-On, Add	64.73	
For Installation In New Panelboard, Deduct	-30.76	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.92	
26 28 16 13-0050 EA 70 To 100 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	456.48	69.22
For Bolt-On, Add	83.98	
For Installation In New Panelboard, Deduct	-38.46	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	46.15	
26 28 16 13-0051 EA 110 To 125 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity	1,131.30	83.06
For Bolt-On, Add	173.71	
For Installation In New Panelboard, Deduct	-46.15	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	55.37	
26 28 16 13-0052 Branch Circuit Breakers 22,000 Amperes Interrupting Capacity, Plug-On <small>(26 28 16 13-0001)</small>		
Note: Includes connection of electrical wire.		
26 28 16 13-0053 EA 15 To 30 Amperes, 1 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	124.60	27.69
For Bolt-On, Add	26.34	
For Installation In New Panelboard, Deduct	-15.38	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.46	
26 28 16 13-0054 EA 35 To 60 Amperes, 1 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	124.60	27.69
For Bolt-On, Add	26.34	
For Installation In New Panelboard, Deduct	-15.38	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.46	
26 28 16 13-0055 EA 70 To 100 Amperes, 1 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	148.08	34.61
For Bolt-On, Add	31.97	
For Installation In New Panelboard, Deduct	-19.23	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.07	
26 28 16 13-0056 EA 15 To 30 Amperes, 1 Pole GFI, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	237.14	34.61
For Bolt-On, Add	43.10	
For Installation In New Panelboard, Deduct	-19.23	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.07	
26 28 16 13-0057 EA 15 To 30 Amperes, 2 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	254.30	41.53
For Bolt-On, Add	47.94	
For Installation In New Panelboard, Deduct	-23.07	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.69	
26 28 16 13-0058 EA 35 To 60 Amperes, 2 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	254.30	41.53
For Bolt-On, Add	47.94	
For Installation In New Panelboard, Deduct	-23.07	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.69	
26 28 16 13-0059 EA 70 To 100 Amperes, 2 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	311.39	55.38
For Bolt-On, Add	60.46	
For Installation In New Panelboard, Deduct	-30.76	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.92	
26 28 16 13-0060 EA 110 To 125 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	442.55	69.22
For Bolt-On, Add	82.24	
For Installation In New Panelboard, Deduct	-38.46	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	46.15	
26 28 16 13-0061 EA 150 To 225 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	564.41	76.91
For Bolt-On, Add	100.16	
For Installation In New Panelboard, Deduct	-42.30	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	50.76	
26 28 16 13-0062 EA 250 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	701.64	89.99
For Bolt-On, Add	122.70	
For Installation In New Panelboard, Deduct	-49.99	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	59.99	
26 28 16 13-0063 EA 300 To 400 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	761.04	103.83
For Bolt-On, Add	135.51	
For Installation In New Panelboard, Deduct	-57.68	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	69.22	



Electrical	26	26
Low-Voltage Electrical Distribution	26 20	
Low-Voltage Circuit Protective Devices	26 28	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 13-0064 EA 15 To 30 Amperes, 3 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	311.97	55.38
For Bolt-On, Add	60.53	
For Installation In New Panelboard, Deduct	-30.76	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.92	
26 28 16 13-0065 EA 35 To 60 Amperes, 3 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	311.97	55.38
For Bolt-On, Add	60.53	
For Installation In New Panelboard, Deduct	-30.76	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.92	
26 28 16 13-0066 EA 70 To 100 Amperes, 3 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	368.49	69.22
For Bolt-On, Add	72.98	
For Installation In New Panelboard, Deduct	-38.46	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	46.15	
26 28 16 13-0067 EA 110 To 125 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	546.80	83.06
For Bolt-On, Add	100.65	
For Installation In New Panelboard, Deduct	-46.15	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	55.37	
26 28 16 13-0068 EA 150 To 225 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	716.65	107.68
For Bolt-On, Add	131.31	
For Installation In New Panelboard, Deduct	-59.61	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	71.53	
26 28 16 13-0069 EA 250 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	880.67	124.60
For Bolt-On, Add	158.54	
For Installation In New Panelboard, Deduct	-69.22	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	83.06	
26 28 16 13-0070 EA 300 To 400 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity	935.98	132.29
For Bolt-On, Add	168.14	
For Installation In New Panelboard, Deduct	-73.07	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	87.68	
26 28 16 13-0071 Branch Circuit Breakers 25,000 Amperes Interrupting Capacity, Plug-On <small>(26 28 16 13-0001)</small>		
Note: Includes connection of electrical wire.		
26 28 16 13-0072 EA 15 To 30 Amperes, 2 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity	262.99	41.53
For Bolt-On, Add	49.02	
For Installation In New Panelboard, Deduct	-23.07	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.69	
26 28 16 13-0073 EA 35 To 60 Amperes, 2 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity	262.99	41.53
For Bolt-On, Add	49.02	
For Installation In New Panelboard, Deduct	-23.07	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.69	
26 28 16 13-0074 EA 70 To 100 Amperes, 2 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity	395.37	55.38
For Bolt-On, Add	70.96	
For Installation In New Panelboard, Deduct	-30.76	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.92	
26 28 16 13-0075 EA 110 To 125 Amperes, 2 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity	630.23	69.22
For Bolt-On, Add	105.70	
For Installation In New Panelboard, Deduct	-38.46	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	46.15	
26 28 16 13-0076 EA 150 To 225 Amperes, 2 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity	969.39	86.14
For Bolt-On, Add	154.82	
For Installation In New Panelboard, Deduct	-48.07	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	57.68	
26 28 16 13-0077 EA 250 Amperes, 2 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity	1,094.14	89.99
For Bolt-On, Add	171.76	
For Installation In New Panelboard, Deduct	-49.99	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	59.99	
26 28 16 13-0078 EA 300 To 400 Amperes, 2 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity	1,198.73	103.83
For Bolt-On, Add	190.22	
For Installation In New Panelboard, Deduct	-57.68	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	69.22	
26 28 16 13-0079 EA 15 To 30 Amperes, 3 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity	375.45	55.38
For Bolt-On, Add	68.47	
For Installation In New Panelboard, Deduct	-30.76	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.92	
26 28 16 13-0080 EA 35 To 60 Amperes, 3 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity	375.45	55.38
For Bolt-On, Add	68.47	
For Installation In New Panelboard, Deduct	-30.76	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.92	

26 Electrical
26 20 Low-Voltage Electrical Distribution
26 28 Low-Voltage Circuit Protective Devices



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 13-0081	EA	70 To 100 Amperes, 3 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity	472.64	69.22
		<i>For Bolt-On, Add</i>	86.00	
		<i>For Installation In New Panelboard, Deduct</i>	-38.46	
		<i>Note: Also for use with new interiors in panelboards.</i>		
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	46.15	
26 28 16 13-0082	EA	110 To 125 Amperes, 3 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity	782.24	83.06
		<i>For Bolt-On, Add</i>	130.08	
		<i>For Installation In New Panelboard, Deduct</i>	-46.15	
		<i>Note: Also for use with new interiors in panelboards.</i>		
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	55.37	
26 28 16 13-0083	EA	150 To 225 Amperes, 3 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity	1,135.10	107.68
		<i>For Bolt-On, Add</i>	183.61	
		<i>For Installation In New Panelboard, Deduct</i>	-59.61	
		<i>Note: Also for use with new interiors in panelboards.</i>		
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	71.53	
26 28 16 13-0084	EA	250 Amperes, 3 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity	1,339.56	124.60
		<i>For Bolt-On, Add</i>	215.90	
		<i>For Installation In New Panelboard, Deduct</i>	-69.22	
		<i>Note: Also for use with new interiors in panelboards.</i>		
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	83.06	
26 28 16 13-0085	EA	300 To 400 Amperes, 3 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity	1,447.38	132.29
		<i>For Bolt-On, Add</i>	232.07	
		<i>For Installation In New Panelboard, Deduct</i>	-73.07	
		<i>Note: Also for use with new interiors in panelboards.</i>		
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	87.68	
26 28 16 13-0086		Branch Circuit Breakers 30,000 Amperes Interrupting Capacity, Plug-On <small>(26 28 16 13-0001)</small>		
		<i>Note: Includes connection of electrical wire.</i>		
26 28 16 13-0087	EA	2 Pole, 240/480 Volt, 15-30 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity	271.62	41.53
		<i>For Bolt-On, Add</i>	50.10	
		<i>For Installation In New Panelboard, Deduct</i>	-23.07	
		<i>Note: Also for use with new interiors in panelboards.</i>		
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	27.69	
26 28 16 13-0088	EA	2 Pole, 240/480 Volt, 35-60 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity	271.62	41.53
		<i>For Bolt-On, Add</i>	50.10	
		<i>For Installation In New Panelboard, Deduct</i>	-23.07	
		<i>Note: Also for use with new interiors in panelboards.</i>		
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	27.69	
26 28 16 13-0089	EA	2 Pole, 240/480 Volt, 70-100 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity	475.08	55.38
		<i>For Bolt-On, Add</i>	80.92	
		<i>For Installation In New Panelboard, Deduct</i>	-30.76	
		<i>Note: Also for use with new interiors in panelboards.</i>		
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	36.92	
26 28 16 13-0090	EA	2 Pole, 240/480 Volt, 110-125 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity	851.23	69.22
		<i>For Bolt-On, Add</i>	133.32	
		<i>For Installation In New Panelboard, Deduct</i>	-38.46	
		<i>Note: Also for use with new interiors in panelboards.</i>		
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	46.15	
26 28 16 13-0091	EA	2 Pole, 240/480 Volt, 150-225 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity	1,334.70	86.14
		<i>For Bolt-On, Add</i>	200.49	
		<i>For Installation In New Panelboard, Deduct</i>	-48.07	
		<i>Note: Also for use with new interiors in panelboards.</i>		
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	57.68	
26 28 16 13-0092	EA	2 Pole, 240/480 Volt, 250 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity	1,514.29	89.99
		<i>For Bolt-On, Add</i>	224.28	
		<i>For Installation In New Panelboard, Deduct</i>	-49.99	
		<i>Note: Also for use with new interiors in panelboards.</i>		
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	59.99	
26 28 16 13-0093	EA	2 Pole, 240/480 Volt, 300-400 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity	1,652.12	103.83
		<i>For Bolt-On, Add</i>	246.89	
		<i>For Installation In New Panelboard, Deduct</i>	-57.68	
		<i>Note: Also for use with new interiors in panelboards.</i>		
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	69.22	
26 28 16 13-0094	EA	3 Pole, 240/480 Volt, 15-30 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity	435.22	55.38
		<i>For Bolt-On, Add</i>	75.94	
		<i>For Installation In New Panelboard, Deduct</i>	-30.76	
		<i>Note: Also for use with new interiors in panelboards.</i>		
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	36.92	
26 28 16 13-0095	EA	3 Pole, 240/480 Volt, 35-60 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity	435.22	55.38
		<i>For Bolt-On, Add</i>	75.94	
		<i>For Installation In New Panelboard, Deduct</i>	-30.76	
		<i>Note: Also for use with new interiors in panelboards.</i>		
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	36.92	
26 28 16 13-0096	EA	3 Pole, 240/480 Volt, 70-100 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity	576.25	69.22
		<i>For Bolt-On, Add</i>	98.95	
		<i>For Installation In New Panelboard, Deduct</i>	-38.46	
		<i>Note: Also for use with new interiors in panelboards.</i>		
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	46.15	
26 28 16 13-0097	EA	3 Pole, 240/480 Volt, 110-125 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity	1,034.76	83.06
		<i>For Bolt-On, Add</i>	161.65	
		<i>For Installation In New Panelboard, Deduct</i>	-46.15	
		<i>Note: Also for use with new interiors in panelboards.</i>		
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	55.37	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 13-0098 EA 3 Pole, 240/480 Volt, 150-225 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity	1,308.69	107.68
For Bolt-On, Add	205.31	
For Installation In New Panelboard, Deduct	-59.61	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	71.53	
26 28 16 13-0099 EA 3 Pole, 240/480 Volt, 250 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity	2,060.93	124.60
For Bolt-On, Add	306.07	
For Installation In New Panelboard, Deduct	-69.22	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	83.06	
26 28 16 13-0100 EA 3 Pole, 240/480 Volt, 300-400 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity	2,194.28	132.29
For Bolt-On, Add	325.43	
For Installation In New Panelboard, Deduct	-73.07	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	87.68	
26 28 16 13-0101 Branch Circuit Breakers 35,000 Amperes Interrupting Capacity, Plug-On^{(26 28}		
^{16 13-0001)}		
Note: Includes connection of electrical wire.		
26 28 16 13-0102 EA 1 Pole, 480 Volt, 15-30 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	146.36	27.69
For Bolt-On, Add	29.06	
For Installation In New Panelboard, Deduct	-15.38	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.46	
26 28 16 13-0103 EA 1 Pole, 480 Volt, 35-60 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	146.36	27.69
For Bolt-On, Add	29.06	
For Installation In New Panelboard, Deduct	-15.38	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.46	
26 28 16 13-0104 EA 1 Pole, 480 Volt, 70-100 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	245.52	34.61
For Bolt-On, Add	44.15	
For Installation In New Panelboard, Deduct	-19.23	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.07	
26 28 16 13-0105 EA 2 Pole, 480 Volt, 15-30 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	306.98	41.53
For Bolt-On, Add	54.52	
For Installation In New Panelboard, Deduct	-23.07	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.69	
26 28 16 13-0106 EA 2 Pole, 480 Volt, 35-60 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	306.98	41.53
For Bolt-On, Add	54.52	
For Installation In New Panelboard, Deduct	-23.07	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.69	
26 28 16 13-0107 EA 2 Pole, 480 Volt, 70-100 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	548.23	55.38
For Bolt-On, Add	90.06	
For Installation In New Panelboard, Deduct	-30.76	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.92	
26 28 16 13-0108 EA 2 Pole, 480 Volt, 110-125 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	997.35	69.22
For Bolt-On, Add	151.59	
For Installation In New Panelboard, Deduct	-38.46	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	46.15	
26 28 16 13-0109 EA 2 Pole, 480 Volt, 150-225 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	1,911.87	86.14
For Bolt-On, Add	272.63	
For Installation In New Panelboard, Deduct	-48.07	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	57.68	
26 28 16 13-0110 EA 3 Pole, 480 Volt, 15-30 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	499.01	55.38
For Bolt-On, Add	83.91	
For Installation In New Panelboard, Deduct	-30.76	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.92	
26 28 16 13-0111 EA 3 Pole, 480 Volt, 35-60 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	499.01	55.38
For Bolt-On, Add	83.91	
For Installation In New Panelboard, Deduct	-30.76	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.92	
26 28 16 13-0112 EA 3 Pole, 480 Volt, 70-100 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	664.88	69.22
For Bolt-On, Add	110.03	
For Installation In New Panelboard, Deduct	-38.46	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	46.15	
26 28 16 13-0113 EA 3 Pole, 480 Volt, 110-125 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	1,227.37	83.06
For Bolt-On, Add	185.72	
For Installation In New Panelboard, Deduct	-46.15	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	55.37	
26 28 16 13-0114 EA 3 Pole, 480 Volt, 150-225 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity	2,376.92	107.68
For Bolt-On, Add	338.84	
For Installation In New Panelboard, Deduct	-59.61	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	71.53	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 13-0115		Branch Circuit Breakers 42,000 Amperes Interrupting Capacity, Plug-On ^(26 28)		
		<small>16 13-0001</small> Note: Includes connection of electrical wire.		
26 28 16 13-0116	EA	15 To 30 Amperes, 1 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity	207.65	27.69
		For Bolt-On, Add	36.72	
		For Installation In New Panelboard, Deduct	-15.38	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.46	
26 28 16 13-0117	EA	35 To 60 Amperes, 1 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Ampere Interrupting Capacity	207.65	27.69
		For Bolt-On, Add	36.72	
		For Installation In New Panelboard, Deduct	-15.38	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.46	
26 28 16 13-0118	EA	70 To 100 Amperes, 1 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity	310.71	34.61
		For Bolt-On, Add	52.30	
		For Installation In New Panelboard, Deduct	-19.23	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.07	
26 28 16 13-0119	EA	15 To 30 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity	377.90	41.53
		For Bolt-On, Add	63.39	
		For Installation In New Panelboard, Deduct	-23.07	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.69	
26 28 16 13-0120	EA	35 To 60 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity	377.90	41.53
		For Bolt-On, Add	63.39	
		For Installation In New Panelboard, Deduct	-23.07	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.69	
26 28 16 13-0121	EA	70 To 100 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity	700.90	55.38
		For Bolt-On, Add	109.15	
		For Installation In New Panelboard, Deduct	-30.76	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.92	
26 28 16 13-0122	EA	110 To 125 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity	1,256.39	69.22
		For Bolt-On, Add	183.97	
		For Installation In New Panelboard, Deduct	-38.46	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	46.15	
26 28 16 13-0123	EA	150 To 225 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity	2,473.98	76.91
		For Bolt-On, Add	338.86	
		For Installation In New Panelboard, Deduct	-42.30	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	50.76	
26 28 16 13-0124	EA	15 To 30 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity	641.13	55.38
		For Bolt-On, Add	101.68	
		For Installation In New Panelboard, Deduct	-30.76	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.92	
26 28 16 13-0125	EA	35 To 60 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity	641.13	55.38
		For Bolt-On, Add	101.68	
		For Installation In New Panelboard, Deduct	-30.76	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.92	
26 28 16 13-0126	EA	70 To 100 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity	884.44	69.22
		For Bolt-On, Add	137.47	
		For Installation In New Panelboard, Deduct	-38.46	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	46.15	
26 28 16 13-0127	EA	110 To 125 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity	1,419.99	83.06
		For Bolt-On, Add	209.80	
		For Installation In New Panelboard, Deduct	-46.15	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	55.37	
26 28 16 13-0128	EA	150 To 225 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity	3,127.70	107.68
		For Bolt-On, Add	432.69	
		For Installation In New Panelboard, Deduct	-59.61	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	71.53	
26 28 16 13-0129		Branch Circuit Breakers 65,000 Amperes Interrupting Capacity, Plug-On ^(26 28)		
		<small>16 13-0001</small> Note: Includes connection of electrical wire.		
26 28 16 13-0130	EA	15 To 30 Amperes, 1 Pole, 240 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity	101.85	27.69
		For Bolt-On, Add	23.50	
		For Installation In New Panelboard, Deduct	-15.38	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.46	
26 28 16 13-0131	EA	15 To 30 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity	205.92	41.53
		For Bolt-On, Add	41.89	
		For Installation In New Panelboard, Deduct	-23.07	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.69	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 13-0132 EA 15 To 30 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity.....	320.98	55.38
For Bolt-On, Add	61.66	
For Installation In New Panelboard, Deduct	-30.76	
<i>Note: Also for use with new interiors in panelboards.</i>		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.92	
26 28 16 13-0133 EA 15 To 30 Amperes, 1 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity.....	197.15	27.69
For Bolt-On, Add	35.41	
For Installation In New Panelboard, Deduct	-15.38	
<i>Note: Also for use with new interiors in panelboards.</i>		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.46	
26 28 16 13-0134 EA 35 To 60 Amperes, 1 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity.....	197.15	27.69
For Bolt-On, Add	35.41	
For Installation In New Panelboard, Deduct	-15.38	
<i>Note: Also for use with new interiors in panelboards.</i>		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.46	
26 28 16 13-0135 EA 70 To 100 Amperes, 1 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity.....	392.72	55.38
For Bolt-On, Add	70.62	
For Installation In New Panelboard, Deduct	-30.76	
<i>Note: Also for use with new interiors in panelboards.</i>		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.92	
26 28 16 13-0136 EA 15 To 30 Amperes, 2 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity.....	436.31	41.53
For Bolt-On, Add	70.69	
For Installation In New Panelboard, Deduct	-23.07	
<i>Note: Also for use with new interiors in panelboards.</i>		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.69	
26 28 16 13-0137 EA 35 To 60 Amperes, 2 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity.....	436.31	41.53
For Bolt-On, Add	70.69	
For Installation In New Panelboard, Deduct	-23.07	
<i>Note: Also for use with new interiors in panelboards.</i>		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.69	
26 28 16 13-0138 EA 70 To 100 Amperes, 2 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity.....	832.56	55.38
For Bolt-On, Add	125.60	
For Installation In New Panelboard, Deduct	-30.76	
<i>Note: Also for use with new interiors in panelboards.</i>		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.92	
26 28 16 13-0139 EA 110 To 125 Amperes, 2 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity.....	1,402.52	69.22
For Bolt-On, Add	202.23	
For Installation In New Panelboard, Deduct	-38.46	
<i>Note: Also for use with new interiors in panelboards.</i>		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	46.15	
26 28 16 13-0140 EA 150 To 225 Amperes, 2 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity.....	3,059.13	86.14
For Bolt-On, Add	416.04	
For Installation In New Panelboard, Deduct	-48.07	
<i>Note: Also for use with new interiors in panelboards.</i>		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	57.68	
26 28 16 13-0141 EA 15 To 30 Amperes, 3 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity.....	724.70	55.38
For Bolt-On, Add	112.12	
For Installation In New Panelboard, Deduct	-30.76	
<i>Note: Also for use with new interiors in panelboards.</i>		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.92	
26 28 16 13-0142 EA 35 To 60 Amperes, 3 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity.....	724.70	55.38
For Bolt-On, Add	112.12	
For Installation In New Panelboard, Deduct	-30.76	
<i>Note: Also for use with new interiors in panelboards.</i>		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.92	
26 28 16 13-0143 EA 70 To 100 Amperes, 3 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity.....	1,005.76	69.22
For Bolt-On, Add	152.64	
For Installation In New Panelboard, Deduct	-38.46	
<i>Note: Also for use with new interiors in panelboards.</i>		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	46.15	
26 28 16 13-0144 EA 110 To 125 Amperes, 3 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity.....	1,526.26	83.06
For Bolt-On, Add	223.08	
For Installation In New Panelboard, Deduct	-46.15	
<i>Note: Also for use with new interiors in panelboards.</i>		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	55.37	
26 28 16 13-0145 EA 150 To 225 Amperes, 3 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity.....	3,803.80	107.68
For Bolt-On, Add	517.20	
For Installation In New Panelboard, Deduct	-59.61	
<i>Note: Also for use with new interiors in panelboards.</i>		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	71.53	

26 28 16 16 Enclosed Switches (26 28 16)

- 26 28 16 16-0001 Motor And Circuit Disconnects (26 28 16 16)
Note: Work includes mounting, material handling, uploading at job site and termination of all conductors entering and leaving the disconnect.
- 26 28 16 16-0002 NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0001)
- 26 28 16 16-0003 Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0002)
Note: Includes fuses and neutral bar.
- 26 28 16 16-0004 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0003)

26	Electrical
26 20	Low-Voltage Electrical Distribution
26 28	Low-Voltage Circuit Protective Devices



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0005	EA	30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	652.92	153.82
26 28 16 16-0006	EA	60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,061.29	185.35
26 28 16 16-0007	EA	100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,482.39	216.89
26 28 16 16-0008	EA	200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	2,572.91	341.49
26 28 16 16-0009	EA	400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	5,593.75	530.69
26 28 16 16-0010	EA	600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	9,404.34	784.49
26 28 16 16-0011	EA	800 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	12,921.03	922.93
26 28 16 16-0012	EA	1,200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	17,448.92	1,076.75
26 28 16 16-0013		600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0003)</small>		
26 28 16 16-0014	EA	30 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,033.02	170.90
26 28 16 16-0015	EA	60 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,246.57	205.97
26 28 16 16-0016	EA	100 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	2,036.47	240.73
26 28 16 16-0017	EA	200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	2,995.96	379.94
26 28 16 16-0018	EA	400 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	6,686.26	589.45
26 28 16 16-0019	EA	600 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	10,453.13	871.25
26 28 16 16-0020	EA	800 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	15,621.81	1,024.91
26 28 16 16-0021	EA	1,200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	21,469.50	1,196.43
26 28 16 16-0022		240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0003)</small>		
26 28 16 16-0023	EA	30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	914.51	241.50
26 28 16 16-0024	EA	60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,369.93	320.72
26 28 16 16-0025	EA	100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,891.42	356.10
26 28 16 16-0026	EA	200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	2,995.67	557.60
26 28 16 16-0027	EA	400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	6,372.96	915.24
26 28 16 16-0028	EA	600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	10,494.49	1,282.11
26 28 16 16-0029		600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0003)</small>		
26 28 16 16-0030	EA	30 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,225.29	266.88
26 28 16 16-0031	EA	60 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,546.97	356.10
26 28 16 16-0032	EA	100 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	2,356.34	400.71
26 28 16 16-0033	EA	200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	3,456.78	610.68
26 28 16 16-0034	EA	400 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	7,930.49	986.00
26 28 16 16-0035	EA	600 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	12,862.52	1,424.38
26 28 16 16-0036	EA	800 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	20,823.20	1,692.04
26 28 16 16-0037	EA	1,200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	26,767.33	1,922.77
26 28 16 16-0038		240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0003)</small>		
26 28 16 16-0039	EA	30 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	881.35	241.50
26 28 16 16-0040	EA	60 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,327.08	320.72
26 28 16 16-0041	EA	100 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,813.46	356.10



Electrical	26	26
Low-Voltage Electrical Distribution	26 20	
Low-Voltage Circuit Protective Devices	26 28	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0042 EA 200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	3,102.89	557.60
26 28 16 16-0043 EA 400 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	6,977.22	915.24
26 28 16 16-0044 EA 600 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	11,403.55	1,282.11
26 28 16 16-0045 EA 800 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	19,188.75	1,615.13
26 28 16 16-0046 EA 1,200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	23,748.45	1,845.86
26 28 16 16-0047 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0003)</small>		
26 28 16 16-0048 EA 30 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,346.96	266.88
26 28 16 16-0049 EA 60 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,696.50	356.10
26 28 16 16-0050 EA 100 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	2,574.97	400.71
26 28 16 16-0051 EA 200 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	3,784.06	610.68
26 28 16 16-0052 EA 400 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	8,628.75	986.00
26 28 16 16-0053 EA 600 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	14,095.73	1,424.38
26 28 16 16-0054 EA 800 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	22,870.63	1,692.04
26 28 16 16-0055 EA 1,200 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	28,978.98	1,922.77
26 28 16 16-0056 Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0002)</small>		
26 28 16 16-0057 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0056)</small>		
26 28 16 16-0058 EA 30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	631.94	222.58
26 28 16 16-0059 EA 60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	996.95	309.64
26 28 16 16-0060 EA 100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,403.99	356.10
26 28 16 16-0061 EA 200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	2,194.77	569.75
26 28 16 16-0062 EA 400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	4,513.36	949.54
26 28 16 16-0063 EA 600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	7,489.35	1,294.87
26 28 16 16-0064 EA 800 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	10,829.15	1,538.21
26 28 16 16-0065 EA 1,200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	14,399.92	1,795.25
26 28 16 16-0066 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0056)</small>		
26 28 16 16-0067 EA 30 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	698.11	245.65
26 28 16 16-0068 EA 60 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,130.54	347.49
26 28 16 16-0069 EA 100 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,589.79	395.63
26 28 16 16-0070 EA 200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	2,465.68	619.29
26 28 16 16-0071 EA 400 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	4,856.73	1,017.37
26 28 16 16-0072 EA 600 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	8,284.61	1,424.23
26 28 16 16-0073 EA 800 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	12,080.72	1,538.21
26 28 16 16-0074 EA 1,200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	16,113.90	1,795.25
26 28 16 16-0075 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0056)</small>		
26 28 16 16-0076 EA 30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	724.87	199.97
26 28 16 16-0077 EA 60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,126.22	278.42
26 28 16 16-0078 EA 100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,552.65	320.72

26	Electrical
26 20	Low-Voltage Electrical Distribution
26 28	Low-Voltage Circuit Protective Devices



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0079 EA 200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	2,433.84	512.99
26 28 16 16-0080 EA 400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	4,976.16	854.48
26 28 16 16-0081 EA 600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	8,149.38	1,165.20
26 28 16 16-0082 EA 800 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	14,396.81	1,384.39
26 28 16 16-0083 EA 1,200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	18,873.62	1,615.13
26 28 16 16-0084 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0056)</small>		
26 28 16 16-0085 EA 30 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	789.33	220.73
26 28 16 16-0086 EA 60 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,234.80	313.03
26 28 16 16-0087 EA 100 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,688.98	356.10
26 28 16 16-0088 EA 200 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	2,623.60	557.60
26 28 16 16-0089 EA 400 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	5,331.56	915.24
26 28 16 16-0090 EA 600 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	8,798.07	1,282.11
26 28 16 16-0091 EA 800 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	15,225.39	1,384.39
26 28 16 16-0092 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0056)</small>		
26 28 16 16-0093 EA 30 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	851.07	221.05
26 28 16 16-0094 EA 60 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,340.09	312.72
26 28 16 16-0095 EA 100 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,860.21	356.10
26 28 16 16-0096 EA 200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	2,887.34	557.29
26 28 16 16-0097 EA 400 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	5,700.49	915.55
26 28 16 16-0098 EA 600 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	9,889.92	1,281.80
26 28 16 16-0099 EA 800 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	16,471.29	1,384.39
26 28 16 16-0100 EA 1,200 Amperes, 600 Volt Class, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	21,666.22	1,615.13
26 28 16 16-0101 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0056)</small>		
26 28 16 16-0102 EA 30 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,317.87	200.28
26 28 16 16-0103 EA 60 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,570.97	278.73
26 28 16 16-0104 EA 100 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	2,469.94	320.41
26 28 16 16-0105 EA 200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	3,688.39	512.68
26 28 16 16-0106 480 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0056)</small>		
26 28 16 16-0107 EA 30 Amperes, 480 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,424.85	220.73
26 28 16 16-0108 EA 60 Amperes, 480 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,711.37	313.03
26 28 16 16-0109 EA 100 Amperes, 480 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	2,671.82	356.10
26 28 16 16-0110 EA 200 Amperes, 480 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	3,967.79	557.60
26 28 16 16-0111 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0056)</small>		
26 28 16 16-0112 EA 30 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,596.69	221.05
26 28 16 16-0113 EA 60 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,900.91	312.72



Electrical	26	26
Low-Voltage Electrical Distribution	26 20	
Low-Voltage Circuit Protective Devices	26 28	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0114 EA 100 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	3,012.67	356.10
26 28 16 16-0115 EA 200 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	4,464.32	557.29
26 28 16 16-0116 General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0002)</small>		
<small>Note: Includes fuses and neutral bar.</small>		
26 28 16 16-0117 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0116)</small>		
26 28 16 16-0118 EA 30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	437.52	133.82
26 28 16 16-0119 EA 60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	608.59	161.05
26 28 16 16-0120 EA 100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	970.41	188.28
26 28 16 16-0121 EA 200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,825.92	297.03
26 28 16 16-0122 EA 400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	4,484.34	460.69
26 28 16 16-0123 EA 600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	8,489.73	681.89
26 28 16 16-0124 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0116)</small>		
26 28 16 16-0125 EA 30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	589.94	210.28
26 28 16 16-0126 EA 60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	843.22	278.73
26 28 16 16-0127 EA 100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,213.10	309.64
26 28 16 16-0128 EA 200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	2,203.21	484.70
26 28 16 16-0129 EA 400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	5,159.76	796.18
26 28 16 16-0130 EA 600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	9,364.10	1,114.59
26 28 16 16-0131 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0116)</small>		
26 28 16 16-0132 EA 30 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	670.11	210.28
26 28 16 16-0133 EA 60 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	972.49	278.73
26 28 16 16-0134 EA 100 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	1,330.73	309.64
26 28 16 16-0135 EA 200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	2,499.56	484.70
26 28 16 16-0136 EA 400 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	5,666.31	796.18
26 28 16 16-0137 EA 600 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch	9,685.20	1,114.59
26 28 16 16-0138 General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0002)</small>		
26 28 16 16-0139 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0138)</small>		
26 28 16 16-0140 EA 60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	595.89	186.12
26 28 16 16-0141 EA 100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	812.52	213.96
26 28 16 16-0142 EA 200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,916.54	341.95
26 28 16 16-0143 EA 400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	4,204.88	569.14
26 28 16 16-0144 EA 600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	7,399.92	775.57
26 28 16 16-0145 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0138)</small>		
26 28 16 16-0146 EA 30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	563.89	174.12
26 28 16 16-0147 EA 60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	770.53	242.27

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0148 EA 100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,223.73	278.73
26 28 16 16-0149 EA 200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	2,125.66	445.93
26 28 16 16-0150 EA 400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	4,554.64	743.27
26 28 16 16-0151 EA 600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	7,878.64	1,013.07
26 28 16 16-0152 NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches <small>(26 28 16 16-0001)</small>		
26 28 16 16-0153 Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches <small>(26 28 16 16-0152)</small>		
Note: With fuses, neutral bar, and hub if required.		
26 28 16 16-0154 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches <small>(26 28 16 16-0153)</small>		
26 28 16 16-0155 EA 30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	984.85	180.74
26 28 16 16-0156 EA 60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,607.30	216.89
26 28 16 16-0157 EA 100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	2,019.67	252.27
26 28 16 16-0158 EA 200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	2,947.53	384.55
26 28 16 16-0159 EA 400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	6,647.80	615.28
26 28 16 16-0160 EA 600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	11,799.13	820.64
26 28 16 16-0161 EA 800 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	17,867.10	922.93
26 28 16 16-0162 EA 1,200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	23,759.93	1,076.75
26 28 16 16-0163 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches <small>(26 28 16 16-0153)</small>		
26 28 16 16-0164 EA 30 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,735.27	240.88
26 28 16 16-0165 EA 60 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	2,061.48	295.34
26 28 16 16-0166 EA 100 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	2,972.00	339.17
26 28 16 16-0167 EA 200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	4,169.61	508.69
26 28 16 16-0168 EA 400 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	9,231.54	832.33
26 28 16 16-0169 EA 600 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	17,198.57	1,144.59
26 28 16 16-0170 EA 800 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	25,495.88	1,317.94
26 28 16 16-0171 EA 1,200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	28,067.92	1,483.61
26 28 16 16-0172 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches <small>(26 28 16 16-0153)</small>		
26 28 16 16-0173 EA 30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,225.14	284.57
26 28 16 16-0174 EA 60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,987.86	376.87
26 28 16 16-0175 EA 100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	2,419.37	413.78
26 28 16 16-0176 EA 200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	3,571.41	640.67
26 28 16 16-0177 EA 400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	7,906.21	1,068.29
26 28 16 16-0178 EA 600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	13,393.99	1,424.38
26 28 16 16-0179 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches <small>(26 28 16 16-0153)</small>		
26 28 16 16-0180 EA 30 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,931.91	337.33
26 28 16 16-0181 EA 60 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	2,298.69	413.47
26 28 16 16-0182 EA 100 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	3,122.92	474.70



Electrical	26	26
Low-Voltage Electrical Distribution	26 20	
Low-Voltage Circuit Protective Devices	26 28	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0183 EA 200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	4,523.59	712.19
26 28 16 16-0184 EA 400 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	9,718.31	1,165.35
26 28 16 16-0185 EA 600 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	17,843.48	1,602.36
26 28 16 16-0186 EA 800 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	25,502.24	1,845.86
26 28 16 16-0187 EA 1,200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	30,603.48	2,076.59
26 28 16 16-0188 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ^(26 28 16 16-0153)		
26 28 16 16-0189 EA 30 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,361.10	284.57
26 28 16 16-0190 EA 60 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,991.80	376.87
26 28 16 16-0191 EA 100 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	2,610.54	413.78
26 28 16 16-0192 EA 200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	3,698.91	640.67
26 28 16 16-0193 EA 400 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	8,023.17	1,068.29
26 28 16 16-0194 EA 600 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	14,680.51	1,424.38
26 28 16 16-0195 EA 800 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	24,942.07	1,615.13
26 28 16 16-0196 EA 1,200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	31,187.04	1,845.86
26 28 16 16-0197 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ^(26 28 16 16-0153)		
26 28 16 16-0198 EA 30 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	2,009.92	337.64
26 28 16 16-0199 EA 60 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	2,386.39	413.78
26 28 16 16-0200 EA 100 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	3,317.84	474.54
26 28 16 16-0201 EA 200 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	4,650.30	712.19
26 28 16 16-0202 EA 400 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	10,176.38	1,165.20
26 28 16 16-0203 EA 600 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	18,369.77	1,602.05
26 28 16 16-0204 EA 800 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	27,159.48	1,845.86
26 28 16 16-0205 EA 1,200 Amperes, 600 Volt Class, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	32,787.94	2,076.59
26 28 16 16-0206 Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ^(26 28 16 16-0152)		
26 28 16 16-0207 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ^(26 28 16 16-0206)		
26 28 16 16-0208 EA 30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	942.72	158.29
26 28 16 16-0209 EA 60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,562.16	219.19
26 28 16 16-0210 EA 100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	2,075.38	251.35
26 28 16 16-0211 EA 200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	2,719.04	407.01
26 28 16 16-0212 EA 400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	6,186.10	678.96
26 28 16 16-0213 EA 600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	11,475.09	905.24
26 28 16 16-0214 EA 800 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	18,682.86	1,077.21
26 28 16 16-0215 EA 1,200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	24,775.30	1,231.04
26 28 16 16-0216 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ^(26 28 16 16-0206)		
26 28 16 16-0217 EA 30 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,063.60	174.43
26 28 16 16-0218 EA 60 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,772.75	244.12

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0219 EA 100 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	2,348.20	275.65
26 28 16 16-0220 EA 200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	3,031.94	427.32
26 28 16 16-0221 EA 400 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	7,054.70	712.19
26 28 16 16-0222 EA 600 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	12,405.51	949.54
26 28 16 16-0223 EA 800 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	19,936.66	1,128.44
26 28 16 16-0224 EA 1,200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	26,430.54	1,281.80
26 28 16 16-0225 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches <small>(26 28 16 16-0206)</small>		
26 28 16 16-0226 EA 30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,100.98	237.34
26 28 16 16-0227 EA 60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,781.29	328.71
26 28 16 16-0228 EA 100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	2,326.72	377.02
26 28 16 16-0229 EA 200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	3,125.98	610.51
26 28 16 16-0230 EA 400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	6,962.95	1,018.30
26 28 16 16-0231 EA 600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	12,572.09	1,357.48
26 28 16 16-0232 EA 800 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	19,974.23	1,615.13
26 28 16 16-0233 EA 1,200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	26,615.32	1,845.86
26 28 16 16-0234 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches <small>(26 28 16 16-0206)</small>		
26 28 16 16-0235 EA 30 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,194.15	261.50
26 28 16 16-0236 EA 60 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	1,936.70	366.25
26 28 16 16-0237 EA 100 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	2,512.01	413.47
26 28 16 16-0238 EA 200 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	3,323.11	640.98
26 28 16 16-0239 EA 400 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	7,414.39	1,068.13
26 28 16 16-0240 EA 600 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	13,408.89	1,424.23
26 28 16 16-0241 EA 800 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	21,323.74	1,692.04
26 28 16 16-0242 EA 1,200 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	28,404.01	1,922.77
26 28 16 16-0243 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches <small>(26 28 16 16-0206)</small>		
26 28 16 16-0244 EA 30 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	573.93	261.50
26 28 16 16-0245 EA 60 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	2,016.92	366.25
26 28 16 16-0246 EA 100 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	2,623.86	413.47
26 28 16 16-0247 EA 200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	3,459.23	640.98
26 28 16 16-0248 EA 400 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	7,766.84	1,068.13
26 28 16 16-0249 EA 600 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	13,355.03	1,424.23
26 28 16 16-0250 EA 800 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	21,293.57	1,692.04
26 28 16 16-0251 EA 1,200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch	28,362.95	1,922.77
26 28 16 16-0252 General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches <small>(26 28 16 16-0152)</small>		
Note: With fuses, neutral bar, and hub if required.		
26 28 16 16-0253 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches <small>(26 28 16 16-0252)</small>		



Electrical	26	26
Low-Voltage Electrical Distribution	26 20	
Low-Voltage Circuit Protective Devices	26 28	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0254 EA 30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	575.24	157.20
26 28 16 16-0255 EA 60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	831.09	188.59
26 28 16 16-0256 EA 100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,109.62	219.35
26 28 16 16-0257 EA 200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	2,343.03	334.40
26 28 16 16-0258 EA 400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	5,895.97	534.99
26 28 16 16-0259 EA 600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	10,588.03	713.73
26 28 16 16-0260 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ^(26 28 16 16-0252)		
26 28 16 16-0261 EA 30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	757.28	247.80
26 28 16 16-0262 EA 60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,110.35	327.79
26 28 16 16-0263 EA 100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,389.58	359.64
26 28 16 16-0264 EA 200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	2,790.56	557.29
26 28 16 16-0265 EA 400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	6,687.58	928.77
26 28 16 16-0266 EA 600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	11,652.44	1,238.88
26 28 16 16-0267 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ^(26 28 16 16-0252)		
26 28 16 16-0268 EA 30 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	869.70	247.65
26 28 16 16-0269 EA 60 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,222.91	327.79
26 28 16 16-0270 EA 100 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,752.30	359.64
26 28 16 16-0271 EA 200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	3,024.89	557.29
26 28 16 16-0272 EA 400 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	6,838.10	928.93
26 28 16 16-0273 EA 600 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	12,828.31	1,238.88
26 28 16 16-0274 EA 800 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	18,546.37	1,403.47
26 28 16 16-0275 General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ^(26 28 16 16-0152)		
26 28 16 16-0276 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ^(26 28 16 16-0275)		
26 28 16 16-0277 EA 30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	521.55	137.67
26 28 16 16-0278 EA 60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	873.77	190.58
26 28 16 16-0279 EA 100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	907.78	218.58
26 28 16 16-0280 EA 200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	2,382.90	353.79
26 28 16 16-0281 EA 400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	6,008.33	590.37
26 28 16 16-0282 EA 600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	10,740.08	787.10
26 28 16 16-0283 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches ^(26 28 16 16-0275)		
26 28 16 16-0284 EA 30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	821.67	206.43
26 28 16 16-0285 EA 60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,189.43	285.80
26 28 16 16-0286 EA 100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,794.47	327.79
26 28 16 16-0287 EA 200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	3,103.33	530.84
26 28 16 16-0288 NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches ^(26 28 16 16-0001)		

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0289 Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0288)</small> Note: With fuses and neutral bar (stainless steel).		
26 28 16 16-0290 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0289)</small>		
26 28 16 16-0291 EA 30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,805.97	153.82
26 28 16 16-0292 EA 60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,370.35	185.35
26 28 16 16-0293 EA 100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	6,970.49	216.58
26 28 16 16-0294 EA 200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	9,616.31	341.80
26 28 16 16-0295 EA 400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	19,646.09	530.38
26 28 16 16-0296 EA 600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	28,227.04	784.18
26 28 16 16-0297 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0289)</small>		
26 28 16 16-0298 EA 30 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,575.07	170.90
26 28 16 16-0299 EA 60 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,966.37	205.81
26 28 16 16-0300 EA 100 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	7,532.72	240.58
26 28 16 16-0301 EA 200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	10,622.56	379.94
26 28 16 16-0302 EA 400 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	20,379.81	589.75
26 28 16 16-0303 EA 600 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	29,206.78	871.25
26 28 16 16-0304 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0289)</small>		
26 28 16 16-0305 EA 30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,112.73	241.81
26 28 16 16-0306 EA 60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,891.30	320.41
26 28 16 16-0307 EA 100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	7,572.86	356.10
26 28 16 16-0308 EA 200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	10,735.09	557.29
26 28 16 16-0309 EA 400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	21,031.39	915.55
26 28 16 16-0310 EA 600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	30,028.04	1,281.80
26 28 16 16-0311 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0289)</small>		
26 28 16 16-0312 EA 30 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,777.42	267.04
26 28 16 16-0313 EA 60 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	4,277.85	356.10
26 28 16 16-0314 EA 100 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	7,874.57	400.55
26 28 16 16-0315 EA 200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	11,114.13	610.36
26 28 16 16-0316 EA 400 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	21,696.37	986.00
26 28 16 16-0317 EA 600 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	30,860.62	1,424.23
26 28 16 16-0318 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0289)</small>		
26 28 16 16-0319 EA 30 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,748.44	241.81
26 28 16 16-0320 EA 60 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	4,686.01	320.41
26 28 16 16-0321 EA 100 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	9,163.06	356.10
26 28 16 16-0322 EA 200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	12,909.62	557.29
26 28 16 16-0323 EA 400 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	25,311.13	915.55



Electrical	26	26
Low-Voltage Electrical Distribution	26 20	
Low-Voltage Circuit Protective Devices	26 28	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0324 EA 600 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	35,909.44	1,281.80
26 28 16 16-0325 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0289)</small>		
26 28 16 16-0326 EA 30 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	4,528.59	267.04
26 28 16 16-0327 EA 60 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	5,129.65	356.10
26 28 16 16-0328 EA 100 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	9,497.76	400.55
26 28 16 16-0329 EA 200 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	13,306.83	610.36
26 28 16 16-0330 EA 400 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	26,033.86	986.00
26 28 16 16-0331 EA 600 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	36,822.21	1,424.23
26 28 16 16-0332 Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0288)</small>		
26 28 16 16-0333 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0332)</small>		
26 28 16 16-0334 EA 30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,688.66	153.82
26 28 16 16-0335 EA 60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,257.14	213.96
26 28 16 16-0336 EA 100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	6,221.68	246.12
26 28 16 16-0337 EA 200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	8,602.49	393.17
26 28 16 16-0338 EA 400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	15,696.63	654.66
26 28 16 16-0339 EA 600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	22,507.78	891.86
26 28 16 16-0340 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0332)</small>		
26 28 16 16-0341 EA 30 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,060.62	169.67
26 28 16 16-0342 EA 60 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,713.04	239.96
26 28 16 16-0343 EA 100 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	7,094.84	273.50
26 28 16 16-0344 EA 200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	9,787.41	427.32
26 28 16 16-0345 EA 400 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	17,849.17	703.28
26 28 16 16-0346 EA 600 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	25,653.77	984.46
26 28 16 16-0347 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0332)</small>		
26 28 16 16-0348 EA 30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,781.59	200.28
26 28 16 16-0349 EA 60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,341.41	278.73
26 28 16 16-0350 EA 100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,470.01	320.41
26 28 16 16-0351 EA 200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	6,754.90	512.68
26 28 16 16-0352 EA 400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	9,525.21	854.63
26 28 16 16-0353 EA 600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	23,737.20	1,165.35
26 28 16 16-0354 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0332)</small>		
26 28 16 16-0355 EA 30 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,163.16	221.05
26 28 16 16-0356 EA 60 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,858.53	312.72
26 28 16 16-0357 EA 100 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	7,260.03	356.10

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0358 EA 200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	10,047.30	557.29
26 28 16 16-0359 EA 400 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	20,174.33	915.55
26 28 16 16-0360 EA 600 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	27,028.34	1,281.80
26 28 16 16-0361 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0332)</small>		
26 28 16 16-0362 EA 30 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,868.39	200.28
26 28 16 16-0363 EA 60 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	4,616.16	278.73
26 28 16 16-0364 EA 100 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	10,565.27	320.41
26 28 16 16-0365 EA 200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	16,103.41	512.68
26 28 16 16-0366 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0332)</small>		
26 28 16 16-0367 EA 30 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	4,405.22	221.05
26 28 16 16-0368 EA 60 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	5,263.96	312.72
26 28 16 16-0369 EA 100 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	12,054.24	356.10
26 28 16 16-0370 EA 200 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	18,346.56	557.29
26 28 16 16-0371 Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0288)</small>		
26 28 16 16-0372 600 Volt Class, 3 Phase, 3 Pole, Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0371)</small>		
26 28 16 16-0373 EA 30 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	5,117.20	266.88
26 28 16 16-0374 EA 60 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	5,803.04	356.10
26 28 16 16-0375 EA 100 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	10,569.45	400.71
26 28 16 16-0376 EA 200 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	13,705.97	610.68
26 28 16 16-0377 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0371)</small>		
26 28 16 16-0378 EA 30 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	4,808.71	220.73
26 28 16 16-0379 EA 60 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	5,478.37	313.03
26 28 16 16-0380 EA 100 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	10,004.76	356.10
26 28 16 16-0381 EA 200 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	13,556.94	557.60
26 28 16 16-0382 Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0288)</small>		
26 28 16 16-0383 600 Volt Class, 3 Phase, 3 Pole, Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0382)</small>		
26 28 16 16-0384 EA 30 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	5,873.56	266.88
26 28 16 16-0385 EA 60 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	6,649.38	356.10
26 28 16 16-0386 EA 100 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	12,170.00	400.71
26 28 16 16-0387 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0382)</small>		
26 28 16 16-0388 EA 30 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	5,524.35	220.73
26 28 16 16-0389 EA 60 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	6,279.71	313.03
26 28 16 16-0390 EA 100 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	11,541.03	356.10



Electrical	26	26
Low-Voltage Electrical Distribution	26 20	
Low-Voltage Circuit Protective Devices	26 28	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0391	NEMA 7 Or 9 Enclosures, Neutral Kit, Safety Switches <small>(26 28 16 16-0001)</small>	
Note: Class 1, groups C and D, division 1 or 2, NEMA 7; Class 2, groups E, F and G, division 1 or 2, NEMA 9; or Class 3, division 1 Or 2, NEMA 9, hazardous locations as defined in NEC article 500.		
26 28 16 16-0392	Heavy Duty Fusible, NEMA 7 Or 9 Enclosures, Neutral Kit, Safety Switches	
<small>(26 28 16 16-0391)</small> Note: With fuses and neutral bar.		
26 28 16 16-0393 EA	30 Amperes, 240 Volt, 3 Phase, Heavy Duty Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch	4,589.47 307.65
26 28 16 16-0394 EA	60 Amperes, 240 Volt, 3 Phase, Heavy Duty Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch	5,171.50 366.25
26 28 16 16-0395 EA	100 Amperes, 240 Volt, 3 Phase, Heavy Duty Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch	5,730.82 413.47
26 28 16 16-0396 EA	200 Amperes, 240 Volt, 3 Phase, Heavy Duty Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch	12,298.03 640.98
26 28 16 16-0397	Heavy Duty Non-Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0391)</small>	
26 28 16 16-0398 EA	60 Amperes, 240 Volt, 3 Phase, Heavy Duty Non-Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch	3,490.95 366.25
26 28 16 16-0399 EA	100 Amperes, 240 Volt, 3 Phase, Heavy Duty Non-Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch	4,094.15 413.47
26 28 16 16-0400 EA	200 Amperes, 240 Volt, 3 Phase, Heavy Duty Non-Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch	7,595.85 640.98
26 28 16 16-0401	NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0001)</small>	
26 28 16 16-0402	Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0401)</small>	
Note: With fuses and neutral bar.		
26 28 16 16-0403	240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0402)</small>	
26 28 16 16-0404 EA	30 Amperes, 240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	967.47 153.82
26 28 16 16-0405 EA	60 Amperes, 240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,272.42 185.35
26 28 16 16-0406 EA	100 Amperes, 240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,757.31 216.89
26 28 16 16-0407 EA	200 Amperes, 240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	2,977.64 341.49
26 28 16 16-0408 EA	400 Amperes, 240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	6,470.00 530.69
26 28 16 16-0409 EA	600 Amperes, 240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	11,782.40 784.49
26 28 16 16-0410	600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0402)</small>	
26 28 16 16-0411 EA	30 Amperes, 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,560.12 170.74
26 28 16 16-0412 EA	60 Amperes, 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,591.38 206.12
26 28 16 16-0413 EA	100 Amperes, 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	2,324.73 240.73
26 28 16 16-0414 EA	200 Amperes, 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	3,635.13 379.94
26 28 16 16-0415 EA	400 Amperes, 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	8,070.22 589.14
26 28 16 16-0416 EA	600 Amperes, 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	16,136.78 871.40
26 28 16 16-0417	240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0402)</small>	
26 28 16 16-0418 EA	30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,328.27 241.50
26 28 16 16-0419 EA	60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,848.41 320.72
26 28 16 16-0420 EA	100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	2,570.63 356.10
26 28 16 16-0421 EA	200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	3,804.50 557.60
26 28 16 16-0422 EA	400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	7,571.73 915.24
26 28 16 16-0423 EA	600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	12,265.19 1,282.11
26 28 16 16-0424	600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0402)</small>	
26 28 16 16-0425 EA	30 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,801.14 266.88
26 28 16 16-0426 EA	60 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	2,008.38 356.10

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0427 EA 100 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	3,033.04	400.71
26 28 16 16-0428 EA 200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	4,398.10	610.68
26 28 16 16-0429 EA 400 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	9,388.97	986.00
26 28 16 16-0430 EA 600 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	17,916.27	1,424.38
26 28 16 16-0431 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0402)</small>		
26 28 16 16-0432 EA 30 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,429.12	241.50
26 28 16 16-0433 EA 60 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,917.70	320.72
26 28 16 16-0434 EA 100 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	2,788.09	356.10
26 28 16 16-0435 EA 200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	4,077.52	557.60
26 28 16 16-0436 EA 400 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	8,302.73	915.24
26 28 16 16-0437 EA 600 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	12,759.04	1,282.11
26 28 16 16-0438 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0402)</small>		
26 28 16 16-0439 EA 30 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,918.06	266.88
26 28 16 16-0440 EA 60 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	2,320.27	356.10
26 28 16 16-0441 EA 100 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	3,247.49	400.71
26 28 16 16-0442 EA 200 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	4,807.43	610.68
26 28 16 16-0443 EA 400 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	10,051.70	986.00
26 28 16 16-0444 EA 600 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	18,462.05	1,424.38
26 28 16 16-0445 Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0401)</small>		
26 28 16 16-0446 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0445)</small>		
26 28 16 16-0447 EA 30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,016.55	222.27
26 28 16 16-0448 EA 60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,342.10	309.95
26 28 16 16-0449 EA 100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,801.98	356.10
26 28 16 16-0450 EA 200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	2,544.91	569.90
26 28 16 16-0451 EA 400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	5,722.07	949.85
26 28 16 16-0452 EA 600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	9,147.36	1,295.18
26 28 16 16-0453 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0445)</small>		
26 28 16 16-0454 EA 30 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,134.10	245.35
26 28 16 16-0455 EA 60 Amperes, Non-Fused, NEMA 12, Heavy Duty Disconnect Switch, 600 Volt, 1 Phase	1,490.44	347.64
26 28 16 16-0456 EA 100 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	2,008.90	395.32
26 28 16 16-0457 EA 200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	2,765.00	619.13
26 28 16 16-0458 EA 400 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	6,052.80	1,017.52
26 28 16 16-0459 EA 600 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	10,107.16	1,424.38
26 28 16 16-0460 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0445)</small>		
26 28 16 16-0461 EA 30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,307.86	199.97
26 28 16 16-0462 EA 60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,711.24	278.42



Electrical	26	26
Low-Voltage Electrical Distribution	26 20	
Low-Voltage Circuit Protective Devices	26 28	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0463 EA 100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	2,310.13	320.72
26 28 16 16-0464 EA 200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	3,262.84	512.99
26 28 16 16-0465 EA 400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	7,014.06	854.48
26 28 16 16-0466 EA 600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	11,183.18	1,165.20
26 28 16 16-0467 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0445)		
26 28 16 16-0468 EA 30 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,264.61	220.73
26 28 16 16-0469 EA 60 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,843.58	313.03
26 28 16 16-0470 EA 100 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	2,466.46	356.10
26 28 16 16-0471 EA 200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	3,190.60	557.60
26 28 16 16-0472 EA 400 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	7,006.48	915.24
26 28 16 16-0473 EA 600 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	13,382.06	1,282.11
26 28 16 16-0474 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0445)		
26 28 16 16-0475 EA 30 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,596.38	199.97
26 28 16 16-0476 EA 60 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,875.31	278.42
26 28 16 16-0477 EA 100 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	2,982.32	320.72
26 28 16 16-0478 EA 200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	4,726.34	512.99
26 28 16 16-0479 EA 400 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	8,720.18	653.74
26 28 16 16-0480 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches (26 28 16 16-0445)		
26 28 16 16-0481 EA 30 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,650.56	220.73
26 28 16 16-0482 EA 60 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	2,038.51	313.03
26 28 16 16-0483 EA 100 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	3,177.94	356.10
26 28 16 16-0484 EA 200 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	4,837.70	557.60
26 28 16 16-0485 EA 400 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	9,173.66	861.40
26 28 16 16-0486 Double Throw Safety Switches (26 28 16 16-0001)		
26 28 16 16-0487 NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 16-0486)		
26 28 16 16-0488 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 16-0487)		
26 28 16 16-0489 EA 30 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	1,211.63	197.66
26 28 16 16-0490 EA 60 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	1,809.83	258.42
26 28 16 16-0491 EA 100 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	2,553.19	337.64
26 28 16 16-0492 EA 200 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	3,411.25	439.16
26 28 16 16-0493 EA 400 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	8,530.46	549.14
26 28 16 16-0494 EA 600 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	15,589.45	880.63
26 28 16 16-0495 EA 800 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	17,753.86	1,230.58
26 28 16 16-0496 EA 1,000 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	26,416.46	1,384.39
26 28 16 16-0497 EA 1,200 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	31,180.90	1,538.21
26 28 16 16-0498 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 16-0487)		
26 28 16 16-0499 EA 30 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	1,512.87	276.88
26 28 16 16-0500 EA 60 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	2,126.46	361.48
26 28 16 16-0501 EA 100 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	3,243.22	473.01
26 28 16 16-0502 EA 200 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	4,809.19	615.28
26 28 16 16-0503 EA 400 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	11,747.72	769.11
26 28 16 16-0504 EA 600 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	16,299.20	1,230.58



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0505 EA 800 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	19,114.66	1,384.39
26 28 16 16-0506 EA 1,000 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	27,599.03	1,538.21
26 28 16 16-0507 EA 1,200 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	32,798.89	1,692.04
26 28 16 16-0508 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 16-0487)		
26 28 16 16-0509 EA 30 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	2,023.00	346.09
26 28 16 16-0510 EA 60 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	2,973.60	452.24
26 28 16 16-0511 EA 100 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	5,401.68	590.67
26 28 16 16-0512 EA 200 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	7,423.49	767.57
26 28 16 16-0513 EA 400 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	15,306.03	961.39
26 28 16 16-0514 EA 600 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	19,174.23	1,540.53
26 28 16 16-0515 EA 800 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	24,419.26	1,692.04
26 28 16 16-0516 EA 1,000 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	32,767.79	1,768.95
26 28 16 16-0517 EA 1,200 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	36,836.23	1,845.86
26 28 16 16-0518 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 16-0487)		
26 28 16 16-0519 EA 60 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	2,113.74	258.42
26 28 16 16-0520 EA 100 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	3,208.67	337.64
26 28 16 16-0521 EA 200 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	4,764.09	439.16
26 28 16 16-0522 EA 400 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	11,521.53	549.14
26 28 16 16-0523 EA 600 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	16,989.08	880.63
26 28 16 16-0524 EA 800 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	19,283.20	1,230.58
26 28 16 16-0525 EA 1,000 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	28,781.22	1,384.39
26 28 16 16-0526 EA 1,200 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	33,991.35	1,538.21
26 28 16 16-0527 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 16-0487)		
26 28 16 16-0528 EA 60 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	2,319.61	361.48
26 28 16 16-0529 EA 100 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	3,478.52	473.01
26 28 16 16-0530 EA 200 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	5,114.89	615.28
26 28 16 16-0531 EA 400 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	11,961.11	769.11
26 28 16 16-0532 EA 600 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	17,691.44	1,230.58
26 28 16 16-0533 EA 800 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	20,749.25	1,384.39
26 28 16 16-0534 EA 1,000 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	28,766.76	1,538.21
26 28 16 16-0535 EA 1,200 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	35,740.38	1,692.04
26 28 16 16-0536 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 16-0487)		
26 28 16 16-0537 EA 60 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	3,163.58	452.24
26 28 16 16-0538 EA 100 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	5,677.38	590.67
26 28 16 16-0539 EA 200 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	7,991.20	767.57
26 28 16 16-0540 EA 400 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	16,517.86	961.39
26 28 16 16-0541 EA 600 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	20,532.93	1,540.53
26 28 16 16-0542 EA 800 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	26,522.78	1,692.04
26 28 16 16-0543 EA 1,000 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	35,690.79	1,768.95
26 28 16 16-0544 EA 1,200 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch	40,150.67	1,845.86
26 28 16 16-0545 NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 16-0486)		
26 28 16 16-0546 240 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 16-0545)		
26 28 16 16-0547 EA 100 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	3,242.31	337.64
26 28 16 16-0548 EA 200 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	7,641.02	439.16
26 28 16 16-0549 EA 400 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	25,569.52	549.14
26 28 16 16-0550 EA 600 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	44,078.96	880.63
26 28 16 16-0551 240 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches (26 28 16 16-0545)		
26 28 16 16-0552 EA 100 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	4,231.42	472.23
26 28 16 16-0553 EA 200 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	6,922.37	614.51
26 28 16 16-0554 EA 400 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	26,239.68	769.11
26 28 16 16-0555 EA 600 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	28,273.68	1,232.88



Electrical	26	26
Low-Voltage Electrical Distribution	26 20	
Low-Voltage Circuit Protective Devices	26 28	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0556	240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0545)</small>	
26 28 16 16-0557 EA	30 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch..... 4,144.91	346.25
26 28 16 16-0558 EA	60 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch..... 5,125.96	451.93
26 28 16 16-0559 EA	100 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch..... 7,215.20	590.52
26 28 16 16-0560 EA	200 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch..... 10,485.25	767.88
26 28 16 16-0561 EA	400 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch..... 18,014.33	961.39
26 28 16 16-0562 EA	600 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch..... 20,759.85	1,540.68
26 28 16 16-0563	600 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0545)</small>	
26 28 16 16-0564 EA	60 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch..... 2,766.99	258.42
26 28 16 16-0565 EA	100 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch..... 4,245.54	337.64
26 28 16 16-0566 EA	200 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch..... 7,835.65	439.16
26 28 16 16-0567 EA	400 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch..... 15,257.54	549.14
26 28 16 16-0568 EA	600 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch..... 20,299.32	880.63
26 28 16 16-0569	600 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0545)</small>	
26 28 16 16-0570 EA	60 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch..... 3,092.33	361.48
26 28 16 16-0571 EA	100 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch..... 4,703.71	472.23
26 28 16 16-0572 EA	200 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch..... 8,552.55	614.51
26 28 16 16-0573 EA	400 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch..... 16,442.39	769.11
26 28 16 16-0574 EA	600 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch..... 21,976.17	1,232.88
26 28 16 16-0575	600 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0545)</small>	
26 28 16 16-0576 EA	60 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch..... 5,170.02	451.93
26 28 16 16-0577 EA	100 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch..... 7,235.40	590.52
26 28 16 16-0578 EA	200 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch..... 10,765.88	767.88
26 28 16 16-0579 EA	400 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch..... 17,981.20	961.39
26 28 16 16-0580 EA	600 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch..... 20,942.49	1,540.68
26 28 16 16-0581	NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0486)</small>	
26 28 16 16-0582	240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0581)</small>	
26 28 16 16-0583 EA	30 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch 3,365.64	197.82
26 28 16 16-0584 EA	60 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch 3,791.58	258.27
26 28 16 16-0585 EA	100 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch 4,262.60	337.49
26 28 16 16-0586 EA	200 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch 5,875.02	438.86
26 28 16 16-0587 EA	400 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch 11,142.81	549.30
26 28 16 16-0588 EA	600 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch 16,294.36	880.32
26 28 16 16-0589	240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0581)</small>	
26 28 16 16-0590 EA	30 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch 3,837.22	276.88
26 28 16 16-0591 EA	60 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch 4,518.14	361.48
26 28 16 16-0592 EA	100 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch 5,335.15	472.23
26 28 16 16-0593 EA	200 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch 7,465.53	614.51
26 28 16 16-0594 EA	400 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch 13,821.43	769.11
26 28 16 16-0595 EA	600 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch 18,131.54	1,232.88
26 28 16 16-0596	240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0581)</small>	
26 28 16 16-0597 EA	30 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch 5,774.65	346.25
26 28 16 16-0598 EA	60 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch 6,727.76	451.93
26 28 16 16-0599 EA	100 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch 9,241.74	590.52
26 28 16 16-0600 EA	200 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch 12,574.02	767.88
26 28 16 16-0601 EA	400 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch 23,559.48	961.39
26 28 16 16-0602 EA	600 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch 29,062.23	1,540.68
26 28 16 16-0603	600 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0581)</small>	
26 28 16 16-0604 EA	60 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch 5,052.49	258.27
26 28 16 16-0605 EA	100 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch 5,272.66	337.49
26 28 16 16-0606 EA	200 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch 10,119.22	438.86
26 28 16 16-0607 EA	400 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch 14,654.20	549.30
26 28 16 16-0608 EA	600 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch 19,588.47	880.32

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

26 28 16 16-0609		600 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0581)</small>		
26 28 16 16-0610	EA	60 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	5,497.77	361.48
26 28 16 16-0611	EA	100 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	5,784.72	472.23
26 28 16 16-0612	EA	200 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch ...	10,955.95	614.51
26 28 16 16-0613	EA	400 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch ...	15,806.72	769.11
26 28 16 16-0614	EA	600 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch ...	21,227.14	1,232.88
26 28 16 16-0615		600 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0581)</small>		
26 28 16 16-0616	EA	60 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	6,799.59	451.93
26 28 16 16-0617	EA	100 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	9,771.63	590.52
26 28 16 16-0618	EA	200 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch ...	12,886.34	767.88
26 28 16 16-0619	EA	400 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch ...	24,231.75	961.39
26 28 16 16-0620	EA	600 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch ...	29,953.31	1,540.68
26 28 16 16-0621		Removal And Reinstallation Of Disconnect Switches <small>(26 28 16 16-0001)</small>		
		Note: Includes storage and cleaning.		
26 28 16 16-0622	EA	Removal And Reinstallation Of Up To 100 Amperes Safety Disconnect Switch	769.11	
26 28 16 16-0623	EA	Removal And Reinstallation Of >100 To 200 Amperes Safety Disconnect Switch	999.88	
26 28 16 16-0624	EA	Removal And Reinstallation Of >200 To 300 Amperes Safety Disconnect Switch	1,115.30	
26 28 16 16-0625	EA	Removal And Reinstallation Of >300 To 400 Amperes Safety Disconnect Switch	1,307.56	
26 28 16 16-0626		Bolted Contact Switches <small>(26 28 16 16)</small>		
		Note: Work includes mounting, material handling, uploading at job site and termination of all conductors entering and leaving the switch.		
26 28 16 16-0627		Electrical Trip, Bolted Contact Switches <small>(26 28 16 16-0626)</small>		
26 28 16 16-0628		Top Feed, Electrical Trip, Bolted Contact Switches <small>(26 28 16 16-0627)</small>		
26 28 16 16-0629	EA	800 Amperes, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB0833T120480)	10,686.45	1,538.21
26 28 16 16-0630	EA	1,200 Amperes, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB1233T120480)	11,628.24	1,845.86
26 28 16 16-0631	EA	1,600 Amperes, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB1633T120480)	12,701.88	2,153.50
26 28 16 16-0632	EA	2,000 Amperes, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB2033T120480)	13,474.15	2,461.14
26 28 16 16-0633	EA	2,500 Amperes, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB2533T120480)	15,213.36	2,768.79
26 28 16 16-0634	EA	3,000 Amperes, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB3033T120480)	18,949.25	3,076.43
26 28 16 16-0635	EA	4,000 Amperes, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB4033T120480)	25,391.30	3,691.72
26 28 16 16-0636		Bottom Feed, Electrical Trip, Bolted Contact Switches <small>(26 28 16 16-0627)</small>		
26 28 16 16-0637	EA	800 Amperes, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB0833B120480)	11,295.50	1,538.21
26 28 16 16-0638	EA	1,200 Amperes, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB1233B120480)	12,356.60	1,845.86
26 28 16 16-0639	EA	1,600 Amperes, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB1633B120480)	13,423.96	2,153.50
26 28 16 16-0640	EA	2,000 Amperes, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB2033B120480)	14,510.16	2,461.14
26 28 16 16-0641	EA	2,500 Amperes, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB2533B120480)	16,331.00	2,768.79
26 28 16 16-0642	EA	3,000 Amperes, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB3033B120480)	21,046.40	3,076.43
26 28 16 16-0643	EA	4,000 Amperes, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB4033B120480)	27,576.36	3,691.72
26 28 16 16-0644		Manually Operated, Bolted Contact Switches <small>(26 28 16 16-0626)</small>		
26 28 16 16-0645		Top Feed, Manually Operated, Bolted Contact Switches <small>(26 28 16 16-0644)</small>		
26 28 16 16-0646	EA	800 Amperes, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA0833T480)	7,948.85	1,538.21
26 28 16 16-0647	EA	1,200 Amperes, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA1233T480)	9,823.30	1,845.86
26 28 16 16-0648	EA	1,600 Amperes, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA1633T480)	9,949.22	2,153.50
26 28 16 16-0649	EA	2,000 Amperes, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA2033T480)	10,967.61	2,461.14
26 28 16 16-0650	EA	2,500 Amperes, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA2533T480)	12,048.79	2,768.79
26 28 16 16-0651	EA	3,000 Amperes, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA3033T480)	15,784.68	3,076.43
26 28 16 16-0652	EA	4,000 Amperes, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA4033T480)	22,151.39	3,691.72
26 28 16 16-0653		Bottom Feed, Manually Operated, Bolted Contact Switches <small>(26 28 16 16-0644)</small>		
26 28 16 16-0654	EA	800 Amperes, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA0833B480)	8,351.96	1,538.21
26 28 16 16-0655	EA	1,200 Amperes, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA1233B480)	9,532.35	1,845.86
26 28 16 16-0656	EA	1,600 Amperes, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA1633B480)	10,539.43	2,153.50
26 28 16 16-0657	EA	2,000 Amperes, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA2033B480)	11,747.45	2,461.14
26 28 16 16-0658	EA	2,500 Amperes, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA2533B480)	13,028.30	2,768.79
26 28 16 16-0659	EA	3,000 Amperes, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA3033B480)	17,724.86	3,076.43
26 28 16 16-0660	EA	4,000 Amperes, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA4033B480)	24,185.75	3,691.72

26 29 Low-Voltage Controllers (26 20)**26 29 13 Enclosed Controllers** (26 29)**26 29 13 13 Across-The-Line Motor Controllers** (26 29 13)



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0001				Manual Motor Starters <small>(26 29 13 13)</small>		
26 29 13 13-0002				Fractional HP Manual Motor Starters <small>(26 29 13 13-0001)</small>		
26 29 13 13-0003	EA			NEMA 1, 1 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FG1).....	263.69	77.01
				<i>For Flush Cover Plate In Lieu Of NEMA 1, Deduct</i>	-3.06	
				<i>For Oversized Enclosure, Add</i>	30.60	
				<i>For Pilot Light, Add</i>	44.88	
26 29 13 13-0004	EA			NEMA 1, 2 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FG2).....	345.10	100.11
				<i>For Flush Cover Plate In Lieu Of NEMA 1, Deduct</i>	-3.06	
				<i>For Oversized Enclosure, Add</i>	30.60	
				<i>For Pilot Light, Add</i>	44.88	
26 29 13 13-0005	EA			NEMA 1, 1 Pole, Key Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FG3).....	294.29	77.01
				<i>For Flush Cover Plate In Lieu Of NEMA 1, Deduct</i>	-3.06	
				<i>For Oversized Enclosure, Add</i>	30.60	
				<i>For Pilot Light, Add</i>	44.88	
26 29 13 13-0006	EA			NEMA 1, 2 Pole, Key Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FG4).....	375.70	100.11
				<i>For Flush Cover Plate In Lieu Of NEMA 1, Deduct</i>	-3.06	
				<i>For Oversized Enclosure, Add</i>	30.60	
				<i>For Pilot Light, Add</i>	44.88	
26 29 13 13-0007	EA			NEMA 1, Handle Guard/Lockoff, 1 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FG5).....	276.95	77.01
				<i>For Oversized Enclosure, Add</i>	30.60	
26 29 13 13-0008	EA			NEMA 1, Handle Guard/Lockoff, 2 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FG6).....	362.44	100.11
				<i>For Oversized Enclosure, Add</i>	30.60	
26 29 13 13-0009	EA			NEMA 4, Handle Guard/Lockoff, 1 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FW1).....	533.18	92.41
				<i>For Pilot Light, Add</i>	117.31	
26 29 13 13-0010	EA			NEMA 4, Handle Guard/Lockoff, 2 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FW2).....	617.66	115.51
				<i>For Pilot Light, Add</i>	117.31	
26 29 13 13-0011	EA			NEMA 3R, 7 And 9, Handle Guard/Lockoff, 1 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FR1).....	563.79	92.41
26 29 13 13-0012	EA			NEMA 3R, 7 And 9, Handle Guard/Lockoff, 2 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FR2).....	645.20	115.51
26 29 13 13-0013				Non-Reversing Manual Motor Starters <small>(26 29 13 13-0001)</small>		
26 29 13 13-0014	EA			NEMA 1, Non-Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KG1).....	218.98	77.01
				Note: NEMA 1 or flush cover plate installation.		
				<i>For Oversize Enclosure, Add</i>	14.76	
				<i>For Pilot Light, Add</i>	70.87	
26 29 13 13-0015	EA			NEMA 1, Non-Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KG2).....	346.89	100.11
				Note: NEMA 1 or flush cover plate installation.		
				<i>For Oversize Enclosure, Add</i>	14.76	
				<i>For Pilot Light, Add</i>	70.87	
26 29 13 13-0016	EA			NEMA 1, Non-Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 3 HP At 230 Volt, 7-1/2 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KG5).....	246.19	84.71
				Note: NEMA 1 or flush cover plate installation.		
				<i>For Oversize Enclosure, Add</i>	14.76	
				<i>For Pilot Light, Add</i>	70.87	
26 29 13 13-0017	EA			NEMA 1, Non-Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 15 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KG6).....	375.07	107.82
				Note: NEMA 1 or flush cover plate installation.		
				<i>For Oversize Enclosure, Add</i>	14.76	
				<i>For Pilot Light, Add</i>	70.87	
26 29 13 13-0018	EA			NEMA 1, Non-Reversing, 2 Pole, Key Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KG3).....	247.53	77.01
				Note: NEMA 1 or flush cover plate installation.		
				<i>For Oversize Enclosure, Add</i>	14.76	
				<i>For Pilot Light, Add</i>	70.87	
26 29 13 13-0019	EA			NEMA 1, Non-Reversing, 3 Pole, Key Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KG4).....	376.42	100.11
				Note: NEMA 1 or flush cover plate installation.		
				<i>For Oversize Enclosure, Add</i>	14.76	
				<i>For Pilot Light, Add</i>	70.87	
26 29 13 13-0020	EA			NEMA 4, Non-Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KW1).....	493.88	92.41
				<i>For Pilot Light, Add</i>	112.21	
26 29 13 13-0021	EA			NEMA 4, Non-Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KW2).....	610.96	115.51
				<i>For Pilot Light, Add</i>	112.21	
26 29 13 13-0022	EA			NEMA 4, Non-Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 3 HP At 230 Volt, 7-1/2 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KW5).....	522.09	100.11
				<i>For Pilot Light, Add</i>	112.21	
26 29 13 13-0023	EA			NEMA 4, Non-Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 15 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KW6).....	636.21	123.21
				<i>For Pilot Light, Add</i>	112.21	

26 Electrical
26 20 Low-Voltage Electrical Distribution
26 29 Low-Voltage Controllers



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0024	EA	NEMA 3R, 7 And 9, Non-Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KR1).....	521.44	92.41
26 29 13 13-0025	EA	NEMA 3R, 7 And 9, Non-Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KR2).....	646.40	115.51
26 29 13 13-0026	EA	Open Type, Non-Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KO1).....	159.00	53.90
		<i>For Pilot Light, Add</i>	70.87	
26 29 13 13-0027	EA	Open Type, Non-Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KO2).....	286.90	77.01
		<i>For Pilot Light, Add</i>	70.87	
26 29 13 13-0028	EA	Open Type, Non-Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 3 HP At 230 Volt, 7-1/2 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KO5).....	186.20	61.61
		<i>For Pilot Light, Add</i>	70.87	
26 29 13 13-0029	EA	Open Type, Non-Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 15 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KO6).....	314.11	84.71
		<i>For Pilot Light, Add</i>	70.87	
26 29 13 13-0030		Reversing Manual Motor Starters <small>(26 29 13 13-0001)</small>		
26 29 13 13-0031	EA	NEMA 1, Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2511KG11).....	559.73	138.62
		<i>For Pilot Light, Add</i>	114.18	
26 29 13 13-0032	EA	NEMA 1, Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2511KG22).....	803.72	184.82
		<i>For Pilot Light, Add</i>	114.18	
26 29 13 13-0033		Two Speed Manual Motor Starters <small>(26 29 13 13-0001)</small>		
26 29 13 13-0034	EA	NEMA 1, Two Speed, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2512KG11).....	559.73	138.62
26 29 13 13-0035	EA	NEMA 1, Two Speed, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2512KG22).....	803.72	184.82
26 29 13 13-0036		Non-Reversing Integral HP Manual Motor Starters <small>(26 29 13 13-0001)</small>		
26 29 13 13-0037	EA	NEMA 1, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBG1).....	498.00	92.41
26 29 13 13-0038	EA	NEMA 1, Non-Reversing Integral HP, 2 Pole, Toggle Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510TBG1).....	498.00	92.41
26 29 13 13-0039	EA	NEMA 4, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBW11).....	993.95	107.82
26 29 13 13-0040	EA	NEMA 4X, Non-Reversing Integral HP, 2 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBW1).....	993.95	107.82
26 29 13 13-0041	EA	NEMA 7 And 9, Non-Reversing Integral HP, 2 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBR1).....	1,283.65	107.82
26 29 13 13-0042	EA	Type 12, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBA1).....	629.79	107.82
26 29 13 13-0043	EA	Open, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBO1).....	421.20	69.31
26 29 13 13-0044	EA	NEMA 1, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCG1).....	586.86	100.11
26 29 13 13-0045	EA	NEMA 1, Non-Reversing Integral HP, 2 Pole, Toggle Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510TCG1).....	586.86	100.11
26 29 13 13-0046	EA	NEMA 4, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCW11).....	1,183.80	115.51
26 29 13 13-0047	EA	NEMA 4X, Non-Reversing Integral HP, 2 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCW1).....	1,183.80	115.51
26 29 13 13-0048	EA	NEMA 7 And 9, Non-Reversing Integral HP, 2 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCR1).....	1,495.94	115.51
26 29 13 13-0049	EA	Type 12, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCA1).....	718.64	115.51
26 29 13 13-0050	EA	Open, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCO1).....	510.04	77.01
26 29 13 13-0051	EA	NEMA 1, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCG2).....	760.36	107.82
26 29 13 13-0052	EA	NEMA 1, Non-Reversing Integral HP, 2 Pole, Toggle Operator, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510TCG2).....	760.36	107.82
26 29 13 13-0053	EA	NEMA 4, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCW12).....	1,401.18	123.21
26 29 13 13-0054	EA	NEMA 4X, Non-Reversing Integral HP, 2 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCW2).....	1,401.18	123.21
26 29 13 13-0055	EA	NEMA 7 And 9, Non-Reversing Integral HP, 2 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCR2).....	1,700.06	123.21
26 29 13 13-0056	EA	Type 12, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCA2).....	895.22	123.21
26 29 13 13-0057	EA	Open, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCO2).....	686.61	84.71
26 29 13 13-0058	EA	NEMA 1, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBG2).....	617.15	115.51
26 29 13 13-0059	EA	NEMA 1, Non-Reversing Integral HP, 3 Pole, Toggle Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510TBG2).....	617.15	115.51
26 29 13 13-0060	EA	NEMA 4, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBW12).....	1,113.11	130.92



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0061 EA NEMA 4X, Non-Reversing Integral HP, 3 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBW2).....	1,113.11	130.92
26 29 13 13-0062 EA NEMA 7 And 9, Non-Reversing Integral HP, 3 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBR2).....	1,410.97	130.92
26 29 13 13-0063 EA Type 12, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBA2).....	749.96	130.92
26 29 13 13-0064 EA Open, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBO2).....	543.40	92.41
26 29 13 13-0065 EA NEMA 1, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCG3).....	706.01	123.21
26 29 13 13-0066 EA NEMA 1, Non-Reversing Integral HP, 3 Pole, Toggle Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510TCG3).....	706.01	123.21
26 29 13 13-0067 EA NEMA 4, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCW13).....	1,302.95	138.62
26 29 13 13-0068 EA NEMA 4X, Non-Reversing Integral HP, 3 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCW3).....	1,302.95	138.62
26 29 13 13-0069 EA NEMA 7 And 9, Non-Reversing Integral HP, 3 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCR3).....	1,622.23	138.62
26 29 13 13-0070 EA Type 12, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCA3).....	837.80	138.62
26 29 13 13-0071 EA Open, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCO3).....	629.20	100.11
26 29 13 13-0072 Reversing Integral HP Manual Motor Starters (26 29 13 13-0001)		
26 29 13 13-0073 EA NEMA 1, Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2511MBG1).....	1,393.01	161.72
26 29 13 13-0074 EA NEMA 1, Reversing Integral HP, 3 Pole, Toggle Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2511TBG1).....	1,393.01	161.72
26 29 13 13-0075 EA Open, Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2511MBO1).....	1,213.90	115.51
26 29 13 13-0076 EA NEMA 1, Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2511MCG1).....	1,641.09	177.13
26 29 13 13-0077 EA Open, Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2511MCO1).....	1,461.97	130.92
26 29 13 13-0078 Two Speed Integral HP Manual Motor Starters (26 29 13 13-0001)		
26 29 13 13-0079 EA NEMA 1, Two Speed Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2512MBG1).....	1,393.01	161.72
26 29 13 13-0080 EA Open, Two Speed Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2512MBO1).....	1,213.90	115.51
26 29 13 13-0081 EA NEMA 1, Two Speed Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2512MCG1).....	1,641.09	177.13
26 29 13 13-0082 EA Open, Two Speed Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2512MCO1).....	1,461.97	130.92
26 29 13 13-0083 Magnetic Motor Starters (26 29 13 13)		
26 29 13 13-0084 Non-Reversing, Magnetic Contactors (26 29 13 13-0083)		
26 29 13 13-0085 Open Enclosure, Non-Reversing, Magnetic Contactors (26 29 13 13-0084)		
26 29 13 13-0086 EA Size 00, 1 Phase, 2 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SAO11).....	600.80	154.02
<i>For Factory Installed Accessory, Deduct</i>	-308.04	
26 29 13 13-0087 EA Size 00, 3 Phase, 3 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SAO12).....	674.45	169.42
<i>For Factory Installed Accessory, Deduct</i>	-338.85	
26 29 13 13-0088 EA Size 0, 1 Phase, 1 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SBO5).....	643.64	154.02
<i>For Factory Installed Accessory, Deduct</i>	-308.04	
26 29 13 13-0089 EA Size 0, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SBO1).....	718.32	169.42
<i>For Factory Installed Accessory, Deduct</i>	-338.85	
26 29 13 13-0090 EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SBO2).....	791.96	184.82
<i>For Factory Installed Accessory, Deduct</i>	-369.65	
26 29 13 13-0091 EA Size 0, 3 Phase, 4 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SBO3).....	999.64	231.03
<i>For Factory Installed Accessory, Deduct</i>	-462.06	
26 29 13 13-0092 EA Size 0, 3 Phase, 5 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SBO4).....	1,252.20	277.24
<i>For Factory Installed Accessory, Deduct</i>	-554.47	
26 29 13 13-0093 EA Size 1, 1 Phase, 1 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SCO5).....	745.86	169.42
<i>For Factory Installed Accessory, Deduct</i>	-338.85	
26 29 13 13-0094 EA Size 1, 1 Phase, 2 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SCO1).....	819.50	184.82
<i>For Factory Installed Accessory, Deduct</i>	-369.65	
26 29 13 13-0095 EA Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SCO2).....	895.18	200.23
<i>For Factory Installed Accessory, Deduct</i>	-400.45	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 29 Low-Voltage Controllers**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0096	EA		Size 1, 3 Phase, 4 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SCO3).....	1,150.09	269.54
			<i>For Factory Installed Accessory, Deduct</i>	-539.07	
26 29 13 13-0097	EA		Size 1, 3 Phase, 5 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SCO4).....	1,401.63	315.74
			<i>For Factory Installed Accessory, Deduct</i>	-631.48	
26 29 13 13-0098	EA		Size 2, 1 Phase, 2 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SDO1).....	1,213.25	184.82
			<i>For Factory Installed Accessory, Deduct</i>	-369.65	
26 29 13 13-0099	EA		Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SDO2).....	1,361.76	231.03
			<i>For Factory Installed Accessory, Deduct</i>	-462.06	
26 29 13 13-0100	EA		Size 2, 3 Phase, 4 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SDO3).....	1,777.94	308.04
			<i>For Factory Installed Accessory, Deduct</i>	-616.08	
26 29 13 13-0101	EA		Size 3, 1 Phase, 2 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SEO1).....	1,798.35	231.03
			<i>For Factory Installed Accessory, Deduct</i>	-462.06	
26 29 13 13-0102	EA		Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SEO2).....	2,069.68	308.04
			<i>For Factory Installed Accessory, Deduct</i>	-616.08	
26 29 13 13-0103	EA		Size 3, 3 Phase, 4 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SEO3).....	2,629.69	385.05
			<i>For Factory Installed Accessory, Deduct</i>	-770.10	
26 29 13 13-0104	EA		Size 3, 3 Phase, 5 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SEO4).....	3,714.02	462.06
			<i>For Factory Installed Accessory, Deduct</i>	-924.12	
26 29 13 13-0105	EA		Size 4, 1 Phase, 2 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SFO1).....	3,995.57	385.05
			<i>For Factory Installed Accessory, Deduct</i>	-770.10	
26 29 13 13-0106	EA		Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SFO2).....	4,411.75	462.06
			<i>For Factory Installed Accessory, Deduct</i>	-924.12	
26 29 13 13-0107	EA		Size 4, 3 Phase, 4 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SFO3).....	5,930.62	539.07
			<i>For Factory Installed Accessory, Deduct</i>	-1,078.14	
26 29 13 13-0108	EA		Size 5, 1 Phase, 2 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SGO1).....	7,913.65	462.06
			<i>For Factory Installed Accessory, Deduct</i>	-924.12	
26 29 13 13-0109	EA		Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SGO2).....	8,832.72	616.08
			<i>For Factory Installed Accessory, Deduct</i>	-1,232.16	
26 29 13 13-0110	EA		Size 6, 3 Phase, 3 Pole, 150 HP At 200 Volt, 200 HP At 230 Volt, 400 HP At 460/575 Volt, 540 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SHO2).....	22,595.48	924.12
			<i>For Factory Installed Accessory, Deduct</i>	-1,848.24	
26 29 13 13-0111	EA		Size 7, 3 Phase, 3 Pole, 300 HP At 230 Volt, 600 HP At 460/575 Volt, 810 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SJO2).....	32,383.01	1,386.18
			<i>For Factory Installed Accessory, Deduct</i>	-2,772.36	
26 29 13 13-0112			NEMA 1, Non-Reversing, Magnetic Contactors <small>(26 29 13 13-0084)</small>		
26 29 13 13-0113	EA		Size 00, 1 Phase, 2 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SAG11).....	632.42	154.02
			<i>For Factory Installed Accessory, Deduct</i>	-308.04	
26 29 13 13-0114	EA		Size 00, 3 Phase, 3 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SAG12).....	706.08	169.42
			<i>For Factory Installed Accessory, Deduct</i>	-338.85	
26 29 13 13-0115	EA		Size 0, 1 Phase, 1 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SBG5).....	675.27	154.02
			<i>For Factory Installed Accessory, Deduct</i>	-308.04	
26 29 13 13-0116	EA		Size 0, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SBG1).....	750.96	169.42
			<i>For Factory Installed Accessory, Deduct</i>	-338.85	
26 29 13 13-0117	EA		Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SBG2).....	824.60	184.82
			<i>For Factory Installed Accessory, Deduct</i>	-369.65	
26 29 13 13-0118	EA		Size 0, 3 Phase, 4 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SBG3).....	1,034.32	231.03
			<i>For Factory Installed Accessory, Deduct</i>	-462.06	
26 29 13 13-0119	EA		Size 0, 3 Phase, 5 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SBG4).....	1,287.90	277.24
			<i>For Factory Installed Accessory, Deduct</i>	-554.47	
26 29 13 13-0120	EA		Size 1, 1 Phase, 1 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SCG5).....	779.52	169.42
			<i>For Factory Installed Accessory, Deduct</i>	-338.85	
26 29 13 13-0121	EA		Size 1, 1 Phase, 2 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SCG1).....	855.20	184.82
			<i>For Factory Installed Accessory, Deduct</i>	-369.65	
26 29 13 13-0122	EA		Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SCG2).....	928.85	200.23
			<i>For Factory Installed Accessory, Deduct</i>	-400.45	
26 29 13 13-0123	EA		Size 1, 3 Phase, 4 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SCG3).....	1,184.78	269.54
			<i>For Factory Installed Accessory, Deduct</i>	-539.07	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0124	EA			Size 1, 3 Phase, 5 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SCG4) 1,435.30		315.74
				<i>For Factory Installed Accessory, Deduct</i> -631.48		
26 29 13 13-0125	EA			Size 2, 1 Phase, 2 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SDG1) 1,364.22		184.82
				<i>For Factory Installed Accessory, Deduct</i> -369.65		
26 29 13 13-0126	EA			Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SDG2) 1,513.75		231.03
				<i>For Factory Installed Accessory, Deduct</i> -462.06		
26 29 13 13-0127	EA			Size 2, 3 Phase, 4 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SDG3) 1,928.91		308.04
				<i>For Factory Installed Accessory, Deduct</i> -616.08		
26 29 13 13-0128	EA			Size 3, 1 Phase, 2 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SEG1) 2,095.20		231.03
				<i>For Factory Installed Accessory, Deduct</i> -462.06		
26 29 13 13-0129	EA			Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SEG2) 2,365.50		308.04
				<i>For Factory Installed Accessory, Deduct</i> -616.08		
26 29 13 13-0130	EA			Size 3, 3 Phase, 4 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SEG3) 2,926.53		385.05
				<i>For Factory Installed Accessory, Deduct</i> -770.10		
26 29 13 13-0131	EA			Size 4, 1 Phase, 2 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SFG1) 4,610.67		385.05
				<i>For Factory Installed Accessory, Deduct</i> -770.10		
26 29 13 13-0132	EA			Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SFG2) 5,026.85		462.06
				<i>For Factory Installed Accessory, Deduct</i> -924.12		
26 29 13 13-0133	EA			Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SGG2) 9,953.78		616.08
				<i>For Factory Installed Accessory, Deduct</i> -1,232.16		
26 29 13 13-0134	EA			Size 6, 3 Phase, 3 Pole, 150 HP At 200 Volt, 200 HP At 230 Volt, 400 HP At 460/575 Volt, 540 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SHG2) 27,525.49		924.12
				<i>For Factory Installed Accessory, Deduct</i> -1,848.24		
26 29 13 13-0135	EA			Size 7, 3 Phase, 3 Pole, 300 HP At 230 Volt, 600 HP At 460/575 Volt, 810 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SJG2) 37,327.30		1,386.18
				<i>For Factory Installed Accessory, Deduct</i> -2,772.36		
26 29 13 13-0136				NEMA 12, Non-Reversing, Magnetic Contactors <small>(26 29 13 13-0084)</small>		
26 29 13 13-0137	EA			Size 0, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 12 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SBA1) 925.39		169.42
				<i>For Factory Installed Accessory, Deduct</i> -338.85		
26 29 13 13-0138	EA			Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 12 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SBA2) 999.03		184.82
				<i>For Factory Installed Accessory, Deduct</i> -369.65		
26 29 13 13-0139	EA			Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 12 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SCA2) 1,103.28		200.23
				<i>For Factory Installed Accessory, Deduct</i> -400.45		
26 29 13 13-0140	EA			Size 2, 1 Phase, 2 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 12 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SDA1) 1,682.48		184.82
				<i>For Factory Installed Accessory, Deduct</i> -369.65		
26 29 13 13-0141	EA			Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 12 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SDA2) 1,833.04		231.03
				<i>For Factory Installed Accessory, Deduct</i> -462.06		
26 29 13 13-0142	EA			Size 3, 1 Phase, 2 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 12 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SEA1) 2,472.62		231.03
				<i>For Factory Installed Accessory, Deduct</i> -462.06		
26 29 13 13-0143	EA			Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 12 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SEA2) 2,741.91		308.04
				<i>For Factory Installed Accessory, Deduct</i> -616.08		
26 29 13 13-0144	EA			Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 12 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SFA2) 6,276.44		462.06
				<i>For Factory Installed Accessory, Deduct</i> -924.12		
26 29 13 13-0145	EA			Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, NEMA 12 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SGA2) 13,151.70		616.08
				<i>For Factory Installed Accessory, Deduct</i> -1,232.16		
26 29 13 13-0146	EA			Size 6, 3 Phase, 3 Pole, 150 HP At 200 Volt, 200 HP At 230 Volt, 400 HP At 460/575 Volt, 540 Amperes, NEMA 12 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SHA2) 31,446.65		924.12
				<i>For Factory Installed Accessory, Deduct</i> -1,848.24		
26 29 13 13-0147				NEMA 4/4X, Non-Reversing, Magnetic Contactors <small>(26 29 13 13-0084)</small>		
				Note: Brushed stainless steel enclosure.		
26 29 13 13-0148	EA			Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 4/4X Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SBW12) 1,333.62		184.82
				<i>For Factory Installed Accessory, Deduct</i> -369.65		
26 29 13 13-0149	EA			Size 1, 1 Phase, 2 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 4/4X Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SCW11) 1,378.50		184.82
				<i>For Factory Installed Accessory, Deduct</i> -369.65		
26 29 13 13-0150	EA			Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 4/4X Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SCW12) 1,452.14		200.23
				<i>For Factory Installed Accessory, Deduct</i> -400.45		
26 29 13 13-0151	EA			Size 1, 3 Phase, 4 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 4/4X Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SCW13) 1,708.07		269.54
				<i>For Factory Installed Accessory, Deduct</i> -539.07		

26 Electrical
26 20 Low-Voltage Electrical Distribution
26 29 Low-Voltage Controllers



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0152	EA		Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 4/4X Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SDW12)	2,560.35	231.03
			<i>For Factory Installed Accessory, Deduct</i>	-462.06	
26 29 13 13-0153	EA		Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 4/4X Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SEW12).....	3,846.65	308.04
			<i>For Factory Installed Accessory, Deduct</i>	-616.08	
26 29 13 13-0154	EA		Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 4/4X Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SFW12)	7,555.61	462.06
			<i>For Factory Installed Accessory, Deduct</i>	-924.12	
26 29 13 13-0155	EA		Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, NEMA 4/4X Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SGW12).....	13,151.70	616.08
			<i>For Factory Installed Accessory, Deduct</i>	-1,232.16	
26 29 13 13-0156	EA		Size 6, 3 Phase, 3 Pole, 150 HP At 200 Volt, 200 HP At 230 Volt, 400 HP At 460/575 Volt, 540 Amperes, NEMA 4/4X Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SHW2).....	34,788.40	924.12
			<i>For Factory Installed Accessory, Deduct</i>	-1,848.24	
26 29 13 13-0157			NEMA 7/9, Non-Reversing, Magnetic Contactors <small>(26 29 13 13-0084)</small>		
			Note: Bolted cast iron enclosure.		
26 29 13 13-0158	EA		Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 7/9 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SBT2)	2,604.41	246.44
			<i>For Factory Installed Accessory, Deduct</i>	-492.86	
26 29 13 13-0159			Non-Reversing, Magnetic Starters <small>(26 29 13 13-0083)</small>		
26 29 13 13-0160			Open Enclosure, Non-Reversing, Magnetic Starters <small>(26 29 13 13-0159)</small>		
26 29 13 13-0161	EA		Size 00, 1 Phase, 2 Pole, 3/4 HP At 115 Volt, 1 HP At 230 Volt, 9 Amperes, Open Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SAO11)	701.79	154.02
			<i>For Factory Installed Accessory, Deduct</i>	-308.04	
26 29 13 13-0162	EA		Size 00, 3 Phase, 3 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amperes, Open Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SAO12)	732.60	169.42
			<i>For Factory Installed Accessory, Deduct</i>	-338.85	
26 29 13 13-0163	EA		Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, Open Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SBO1)	782.58	169.42
			<i>For Factory Installed Accessory, Deduct</i>	-338.85	
26 29 13 13-0164	EA		Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, Open Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SBO2).....	864.38	184.82
			<i>For Factory Installed Accessory, Deduct</i>	-369.65	
26 29 13 13-0165	EA		Size 0, 3 Phase, 5 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, Open Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SBO4).....	1,379.71	277.24
			<i>For Factory Installed Accessory, Deduct</i>	-554.47	
26 29 13 13-0166	EA		Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, Open Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCO1)	886.83	184.82
			<i>For Factory Installed Accessory, Deduct</i>	-369.65	
26 29 13 13-0167	EA		Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, Open Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCO3)	1,032.89	200.23
			<i>For Factory Installed Accessory, Deduct</i>	-400.45	
26 29 13 13-0168	EA		Size 1, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 36 Amperes, Open Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCO2)	1,075.74	200.23
			<i>For Factory Installed Accessory, Deduct</i>	-400.45	
26 29 13 13-0169	EA		Size 2, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 45 Amperes, Open Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SDO6)	1,306.08	184.82
			<i>For Factory Installed Accessory, Deduct</i>	-369.65	
26 29 13 13-0170	EA		Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, Open Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SDO1).....	1,493.35	231.03
			<i>For Factory Installed Accessory, Deduct</i>	-462.06	
26 29 13 13-0171	EA		Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, Open Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SEO1).....	2,286.96	308.04
			<i>For Factory Installed Accessory, Deduct</i>	-616.08	
26 29 13 13-0172	EA		Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, Open Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SFO1).....	4,746.33	462.06
			<i>For Factory Installed Accessory, Deduct</i>	-924.12	
26 29 13 13-0173	EA		Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, Open Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SGO1)	10,567.86	616.08
			<i>For Factory Installed Accessory, Deduct</i>	-1,232.16	
26 29 13 13-0174	EA		Size 6, 3 Phase, 3 Pole, 150 HP At 200 Volt, 200 HP At 230 Volt, 400 HP At 460/575 Volt, 540 Amperes, Open Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SHO2).....	24,040.93	924.12
			<i>For Factory Installed Accessory, Deduct</i>	-1,848.24	
26 29 13 13-0175	EA		Size 7, 3 Phase, 3 Pole, 300 HP At 230 Volt, 600 HP At 460/575 Volt, 810 Amperes, Open Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SJO2).....	34,659.81	1,386.18
			<i>For Factory Installed Accessory, Deduct</i>	-2,772.36	
26 29 13 13-0176			NEMA 1, Non-Reversing, Magnetic Starters <small>(26 29 13 13-0159)</small>		
26 29 13 13-0177	EA		Size 00, 1 Phase, 2 Pole, 3/4 HP At 115 Volt, 1 HP At 230 Volt, 9 Amperes, NEMA 1 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SAG11).....	735.45	154.02
			<i>For Factory Installed Accessory, Deduct</i>	-308.04	
26 29 13 13-0178	EA		Size 00, 3 Phase, 3 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amperes, NEMA 1 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SAG12)	766.26	169.42
			<i>For Factory Installed Accessory, Deduct</i>	-338.85	
26 29 13 13-0179	EA		Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, NEMA 1 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SBG1)	816.24	169.42
			<i>For Factory Installed Accessory, Deduct</i>	-338.85	



Electrical	26	26
Low-Voltage Electrical Distribution	26 20	
Low-Voltage Controllers	26 29	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0180 EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 1 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SBG2).....	898.05	184.82
<i>For Factory Installed Accessory, Deduct</i>	-369.65	
26 29 13 13-0181 EA Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, NEMA 1 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCG1).....	919.47	184.82
<i>For Factory Installed Accessory, Deduct</i>	-369.65	
26 29 13 13-0182 EA Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 1 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCG3).....	1,002.29	200.23
<i>For Factory Installed Accessory, Deduct</i>	-400.45	
26 29 13 13-0183 EA Size 1, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 36 Amperes, NEMA 1 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCG2).....	1,110.42	200.23
<i>For Factory Installed Accessory, Deduct</i>	-400.45	
26 29 13 13-0184 EA Size 2, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 45 Amperes, NEMA 1 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SDG6).....	1,458.07	184.82
<i>For Factory Installed Accessory, Deduct</i>	-369.65	
26 29 13 13-0185 EA Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 1 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SDG1).....	1,645.34	231.03
<i>For Factory Installed Accessory, Deduct</i>	-462.06	
26 29 13 13-0186 EA Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 1 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SEG1).....	2,583.80	308.04
<i>For Factory Installed Accessory, Deduct</i>	-616.08	
26 29 13 13-0187 EA Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 1 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SFG1).....	5,361.43	462.06
<i>For Factory Installed Accessory, Deduct</i>	-924.12	
26 29 13 13-0188 EA Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, NEMA 1 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SGG1).....	11,691.98	616.08
<i>For Factory Installed Accessory, Deduct</i>	-1,232.16	
26 29 13 13-0189 NEMA 12, Non-Reversing, Magnetic Starters (26 29 13 13-0159)		
26 29 13 13-0190 EA Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, NEMA 12 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SBA1).....	990.68	169.42
<i>For Factory Installed Accessory, Deduct</i>	-338.85	
26 29 13 13-0191 EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 12 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SBA2).....	1,072.48	184.82
<i>For Factory Installed Accessory, Deduct</i>	-369.65	
26 29 13 13-0192 EA Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, NEMA 12 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCA1).....	1,093.90	184.82
<i>For Factory Installed Accessory, Deduct</i>	-369.65	
26 29 13 13-0193 EA Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 12 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCA3).....	1,176.72	200.23
<i>For Factory Installed Accessory, Deduct</i>	-400.45	
26 29 13 13-0194 EA Size 1, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 36 Amperes, NEMA 12 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCA2).....	1,284.85	200.23
<i>For Factory Installed Accessory, Deduct</i>	-400.45	
26 29 13 13-0195 EA Size 2, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 45 Amperes, NEMA 12 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SDA6).....	1,777.35	184.82
<i>For Factory Installed Accessory, Deduct</i>	-369.65	
26 29 13 13-0196 EA Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 12 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SDA1).....	1,963.61	231.03
<i>For Factory Installed Accessory, Deduct</i>	-462.06	
26 29 13 13-0197 EA Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 12 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SEA1).....	2,960.21	308.04
<i>For Factory Installed Accessory, Deduct</i>	-616.08	
26 29 13 13-0198 EA Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 12 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SFA1).....	6,610.00	462.06
<i>For Factory Installed Accessory, Deduct</i>	-924.12	
26 29 13 13-0199 EA Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, NEMA 12 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SGA1).....	14,886.84	616.08
<i>For Factory Installed Accessory, Deduct</i>	-1,232.16	
26 29 13 13-0200 EA Size 6, 3 Phase, 3 Pole, 150 HP At 200 Volt, 200 HP At 230 Volt, 400 HP At 460/575 Volt, 540 Amperes, NEMA 12 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SHA2).....	35,232.14	924.12
<i>For Factory Installed Accessory, Deduct</i>	-1,848.24	
26 29 13 13-0201 NEMA 3R, Non-Reversing, Magnetic Starters (26 29 13 13-0159)		
26 29 13 13-0202 EA Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, NEMA 3R Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SBH1).....	990.68	169.42
<i>For Factory Installed Accessory, Deduct</i>	-338.85	
26 29 13 13-0203 EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 3R Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SBH2).....	1,072.48	184.82
<i>For Factory Installed Accessory, Deduct</i>	-369.65	
26 29 13 13-0204 EA Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, NEMA 3R Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCH1).....	1,093.90	184.82
<i>For Factory Installed Accessory, Deduct</i>	-369.65	
26 29 13 13-0205 EA Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 3R Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCH3).....	1,176.72	200.23
<i>For Factory Installed Accessory, Deduct</i>	-400.45	
26 29 13 13-0206 EA Size 1, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 36 Amperes, NEMA 3R Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCH2).....	1,284.85	200.23
<i>For Factory Installed Accessory, Deduct</i>	-400.45	
26 29 13 13-0207 EA Size 2, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 45 Amperes, NEMA 3R Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SDH6).....	1,777.35	184.82
<i>For Factory Installed Accessory, Deduct</i>	-369.65	



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0208	EA	Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 3R Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SDH1).....	1,963.61	231.03
		<i>For Factory Installed Accessory, Deduct</i>	-462.06	
26 29 13 13-0209	EA	Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 3R Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SEH1).....	2,960.21	308.04
		<i>For Factory Installed Accessory, Deduct</i>	-616.08	
26 29 13 13-0210	EA	Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 3R Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SFH1).....	6,610.00	462.06
		<i>For Factory Installed Accessory, Deduct</i>	-924.12	
26 29 13 13-0211		NEMA 3R/4/4X/7/9, Non-Reversing, Magnetic Starters <small>(26 29 13 13-0159)</small>		
		Note: Bolted cast aluminum enclosure.		
26 29 13 13-0212	EA	Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 3R/4/4X/7/9 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SBT4).....	2,716.82	261.83
		<i>For Factory Installed Accessory, Deduct</i>	-523.67	
26 29 13 13-0213	EA	Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, NEMA 3R/4/4X/7/9 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCR1).....	3,310.51	261.83
		<i>For Factory Installed Accessory, Deduct</i>	-523.67	
26 29 13 13-0214	EA	Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 3R/4/4X/7/9 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCR3).....	3,414.75	277.24
		<i>For Factory Installed Accessory, Deduct</i>	-554.47	
26 29 13 13-0215	EA	Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 3R/4/4X/7/9 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SDR1).....	5,233.95	308.04
		<i>For Factory Installed Accessory, Deduct</i>	-616.08	
26 29 13 13-0216	EA	Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 3R/4/4X/7/9 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SET43).....	6,318.27	385.05
		<i>For Factory Installed Accessory, Deduct</i>	-770.10	
26 29 13 13-0217	EA	Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 3R/4/4X/7/9 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SFT41).....	10,032.33	539.07
		<i>For Factory Installed Accessory, Deduct</i>	-1,078.14	
26 29 13 13-0218		NEMA 4/4X, Non-Reversing, Magnetic Starters <small>(26 29 13 13-0159)</small>		
		Note: Brushed stainless steel enclosure.		
26 29 13 13-0219	EA	Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, NEMA 4/4X Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SBW11).....	1,324.24	169.42
		<i>For Factory Installed Accessory, Deduct</i>	-338.85	
26 29 13 13-0220	EA	Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 4/4X Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SBW12).....	1,407.06	184.82
		<i>For Factory Installed Accessory, Deduct</i>	-369.65	
26 29 13 13-0221	EA	Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, NEMA 4/4X Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCW11).....	1,442.77	184.82
		<i>For Factory Installed Accessory, Deduct</i>	-369.65	
26 29 13 13-0222	EA	Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 4/4X Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCW13).....	1,525.59	200.23
		<i>For Factory Installed Accessory, Deduct</i>	-400.45	
26 29 13 13-0223	EA	Size 1, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 7-1/2 HP At 460/575 Volt, 36 Amperes, NEMA 4/4X Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCW12).....	1,633.72	200.23
		<i>For Factory Installed Accessory, Deduct</i>	-400.45	
26 29 13 13-0224	EA	Size 2, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 45 Amperes, NEMA 4/4X Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SDW16).....	2,502.62	184.82
		<i>For Factory Installed Accessory, Deduct</i>	-369.65	
26 29 13 13-0225	EA	Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 4/4X Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SEW11).....	4,063.92	308.04
		<i>For Factory Installed Accessory, Deduct</i>	-616.08	
26 29 13 13-0226	EA	Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 4/4X Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SFW11).....	7,888.15	462.06
		<i>For Factory Installed Accessory, Deduct</i>	-924.12	
26 29 13 13-0227	EA	Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, NEMA 4/4X Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SGW11).....	17,344.20	616.08
		<i>For Factory Installed Accessory, Deduct</i>	-1,232.16	
26 29 13 13-0228		NEMA 4X, Non-Reversing, Magnetic Starters <small>(26 29 13 13-0159)</small>		
		Note: Glass polyester enclosure.		
26 29 13 13-0229	EA	Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 4X Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SDW21).....	2,691.94	231.03
		<i>For Factory Installed Accessory, Deduct</i>	-462.06	
26 29 13 13-0230	EA	Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 4X Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SEW21).....	4,926.90	308.04
		<i>For Factory Installed Accessory, Deduct</i>	-616.08	
26 29 13 13-0231	EA	Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 4X Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SFW21).....	9,630.43	462.06
		<i>For Factory Installed Accessory, Deduct</i>	-924.12	
26 29 13 13-0232		NEMA 7/9, Non-Reversing, Magnetic Starters <small>(26 29 13 13-0159)</small>		
		Note: Bolted cast iron enclosure.		
26 29 13 13-0233	EA	Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, NEMA 7/9 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SBT1).....	2,625.83	246.44
		<i>For Factory Installed Accessory, Deduct</i>	-492.86	
26 29 13 13-0234	EA	Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 7/9 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SBT2).....	2,716.82	261.83
		<i>For Factory Installed Accessory, Deduct</i>	-523.67	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0235 EA Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, NEMA 7/9 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCT1).....	2,753.55	261.83
<i>For Factory Installed Accessory, Deduct</i>	-523.67	
26 29 13 13-0236 EA Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 7/9 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCT3).....	2,840.45	277.24
<i>For Factory Installed Accessory, Deduct</i>	-554.47	
26 29 13 13-0237 EA Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 36 Amperes, NEMA 7/9 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCT2).....	2,964.90	277.24
<i>For Factory Installed Accessory, Deduct</i>	-554.47	
26 29 13 13-0238 EA Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 7/9 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SDT1).....	4,311.80	308.04
<i>For Factory Installed Accessory, Deduct</i>	-616.08	
26 29 13 13-0239 Reversing, Magnetic Starters (26 29 13 13-0083)		
26 29 13 13-0240 Open Enclosure, Reversing, Magnetic Starters (26 29 13 13-0239)		
26 29 13 13-0241 EA Size 00, 1 Phase, 3 Pole, 3/4 HP At 115 Volt, 1 HP At 230 Volt, 9 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SAO13).....	1,280.77	200.23
<i>For Factory Installed Accessory, Deduct</i>	-400.45	
26 29 13 13-0242 EA Size 00, 3 Phase, 3 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SAO16).....	1,345.04	200.23
<i>For Factory Installed Accessory, Deduct</i>	-400.45	
26 29 13 13-0243 EA Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBO1).....	1,486.01	215.62
<i>For Factory Installed Accessory, Deduct</i>	-431.26	
26 29 13 13-0244 EA Size 0, 1 Phase, 3 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBO2).....	1,545.38	231.03
<i>For Factory Installed Accessory, Deduct</i>	-462.06	
26 29 13 13-0245 EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBO10).....	1,581.08	231.03
<i>For Factory Installed Accessory, Deduct</i>	-462.06	
26 29 13 13-0246 EA Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCO2).....	1,691.44	246.44
<i>For Factory Installed Accessory, Deduct</i>	-492.86	
26 29 13 13-0247 EA Size 1, 1 Phase, 3 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCO3).....	1,768.26	269.54
<i>For Factory Installed Accessory, Deduct</i>	-539.07	
26 29 13 13-0248 EA Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCO7).....	1,804.98	269.54
<i>For Factory Installed Accessory, Deduct</i>	-539.07	
26 29 13 13-0249 EA Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SDO1).....	3,012.23	308.04
<i>For Factory Installed Accessory, Deduct</i>	-616.08	
26 29 13 13-0250 EA Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SEO1).....	4,904.44	462.06
<i>For Factory Installed Accessory, Deduct</i>	-924.12	
26 29 13 13-0251 EA Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230, 100 HP At 460/575 Volt, 135 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SFO1).....	11,107.47	693.09
<i>For Factory Installed Accessory, Deduct</i>	-1,386.18	
26 29 13 13-0252 EA Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SGO1).....	20,524.74	924.12
<i>For Factory Installed Accessory, Deduct</i>	-1,848.24	
26 29 13 13-0253 EA Size 7, 3 Phase, 3 Pole, 300 HP At 230 Volt, 600 HP At 460/575 Volt, 810 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SJO1).....	65,867.85	1,694.22
<i>For Factory Installed Accessory, Deduct</i>	-3,388.44	
26 29 13 13-0254 NEMA 1, Reversing, Magnetic Starters (26 29 13 13-0239)		
26 29 13 13-0255 EA Size 00, 1 Phase, 2 Pole, 3/4 HP At 115 Volt, 1 HP At 230 Volt, 9 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SAG13).....	1,311.18	184.82
<i>For Factory Installed Accessory, Deduct</i>	-369.65	
26 29 13 13-0256 EA Size 00, 1 Phase, 3 Pole, 3/4 HP At 115 Volt, 1 HP At 230 Volt, 9 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SAG15).....	1,372.58	200.23
<i>For Factory Installed Accessory, Deduct</i>	-400.45	
26 29 13 13-0257 EA Size 00, 3 Phase, 3 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SAG16).....	1,409.30	200.23
<i>For Factory Installed Accessory, Deduct</i>	-400.45	
26 29 13 13-0258 EA Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBG1).....	1,547.22	215.62
<i>For Factory Installed Accessory, Deduct</i>	-431.26	
26 29 13 13-0259 EA Size 0, 1 Phase, 3 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBG2).....	1,608.62	231.03
<i>For Factory Installed Accessory, Deduct</i>	-462.06	
26 29 13 13-0260 EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBG4).....	1,645.34	231.03
<i>For Factory Installed Accessory, Deduct</i>	-462.06	
26 29 13 13-0261 EA Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCG2).....	1,783.25	246.44
<i>For Factory Installed Accessory, Deduct</i>	-492.86	
26 29 13 13-0262 EA Size 1, 1 Phase, 3 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCG6).....	1,860.06	269.54
<i>For Factory Installed Accessory, Deduct</i>	-539.07	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 29 Low-Voltage Controllers**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13	13-0263	EA	Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCG8).....	1,896.79	269.54
			<i>For Factory Installed Accessory, Deduct</i>	-539.07	
26 29 13	13-0264	EA	Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SDG2).....	3,250.93	308.04
			<i>For Factory Installed Accessory, Deduct</i>	-616.08	
26 29 13	13-0265	EA	Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SEG2).....	5,317.57	462.06
			<i>For Factory Installed Accessory, Deduct</i>	-924.12	
26 29 13	13-0266	EA	Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SFG3).....	11,866.40	693.09
			<i>For Factory Installed Accessory, Deduct</i>	-1,386.18	
26 29 13	13-0267		NEMA 12, Reversing, Magnetic Starters <small>(26 29 13 13-0239)</small>		
26 29 13	13-0268	EA	Size 0, 1 Phase, 3 Pole, 3/4 HP At 115 Volt, 1 HP At 230 Volt, 18 Amperes, NEMA 12 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBA2).....	1,869.76	231.03
			<i>For Factory Installed Accessory, Deduct</i>	-462.06	
26 29 13	13-0269	EA	Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 12 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBA4).....	1,906.48	231.03
			<i>For Factory Installed Accessory, Deduct</i>	-462.06	
26 29 13	13-0270	EA	Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 12 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCA4).....	2,157.92	269.54
			<i>For Factory Installed Accessory, Deduct</i>	-539.07	
26 29 13	13-0271	EA	Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 12 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SDA1).....	3,687.52	308.04
			<i>For Factory Installed Accessory, Deduct</i>	-616.08	
26 29 13	13-0272		NEMA 4X, Reversing, Magnetic Starters <small>(26 29 13 13-0239)</small>		
			Note: Brushed stainless steel enclosure.		
26 29 13	13-0273	EA	Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 4/4X Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBW14).....	2,312.47	231.03
			<i>For Factory Installed Accessory, Deduct</i>	-462.06	
26 29 13	13-0274	EA	Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, NEMA 4/4X Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCW11).....	2,713.56	246.44
			<i>For Factory Installed Accessory, Deduct</i>	-492.86	
26 29 13	13-0275		Magnetic Contactor/Starters Accessories <small>(26 29 13 13-0083)</small>		
26 29 13	13-0276	EA	NEMA 1 Enclosure Start/Stop Push Button Kit, Contactor/Starter Accessory (Square D 9999SA2).....	173.45	19.25
			<i>For Factory Installed Accessory, Deduct</i>	-38.51	
26 29 13	13-0277	EA	NEMA 12 Enclosure Start/Stop Push Button Kit, Contactor/Starter Accessory (Square D 9999SA3).....	288.61	19.25
			<i>For Factory Installed Accessory, Deduct</i>	-38.51	
26 29 13	13-0278	EA	NEMA 1 Enclosure Selector Switch Kit, Contactor/Starter Accessory (Square D 9999SC2).....	173.45	19.25
			<i>For Factory Installed Accessory, Deduct</i>	-38.51	
26 29 13	13-0279	EA	NEMA 12 Enclosure Selector Switch Kit, Contactor/Starter Accessory (Square D 9999SC8).....	288.61	19.25
			<i>For Factory Installed Accessory, Deduct</i>	-38.51	
26 29 13	13-0280	EA	NEMA 1 And 12 Enclosure Red Pilot Light Kit, Contactor/Starter Accessory (Square D 9999SP2R).....	288.61	19.25
			<i>For Factory Installed Accessory, Deduct</i>	-38.51	
26 29 13	13-0281	EA	Internal Non-Convertible Contact Block Kit, 1 Contact, Contactor/Starter Accessory (Square D 9999SX11).....	145.96	15.41
			<i>For Factory Installed Accessory, Deduct</i>	-30.80	
26 29 13	13-0282	EA	External Convertible Field Contact, 1 Contact, Contactor/Starter Accessory (Square D 9999SX6).....	130.84	15.41
			<i>For Factory Installed Accessory, Deduct</i>	-30.80	
26 29 13	13-0283	EA	External Convertible Field Contacts, 2 Contacts Or 1 Overlapping Contact, Contactor/Starter Accessory (Square D 9999SX8).....	173.45	19.25
			<i>For Factory Installed Accessory, Deduct</i>	-38.51	
26 29 13	13-0284	EA	External Field Non-Convertible Contact, 1 Contact, Contactor/Starter Accessory (Square D 9999SX13).....	145.96	15.41
			<i>For Factory Installed Accessory, Deduct</i>	-30.80	
26 29 13	13-0285	EA	External Field Non-Convertible Contacts, 2 Contacts Or 1 Overlapping Contact, Contactor/Starter Accessory (Square D 9999SX15).....	194.38	19.25
			<i>For Factory Installed Accessory, Deduct</i>	-38.51	
26 29 13	13-0286	EA	30 Amperes, 1 Contact Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SB6).....	214.59	15.41
			<i>For Factory Installed Accessory, Deduct</i>	-30.80	
26 29 13	13-0287	EA	45 Amperes, 1 Contact Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SB11).....	364.65	15.41
			<i>For Factory Installed Accessory, Deduct</i>	-30.80	
26 29 13	13-0288	EA	60 Amperes, 1 Contact Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SB21).....	386.75	15.41
			<i>For Factory Installed Accessory, Deduct</i>	-30.80	
26 29 13	13-0289	EA	30 Amperes, 2 Contact Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SB8).....	463.09	19.25
			<i>For Factory Installed Accessory, Deduct</i>	-38.51	
26 29 13	13-0290	EA	45 Amperes, 2 Contact Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SB13).....	801.60	19.25
			<i>For Factory Installed Accessory, Deduct</i>	-38.51	
26 29 13	13-0291	EA	60 Amperes, 2 Contact Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SB23).....	801.60	19.25
			<i>For Factory Installed Accessory, Deduct</i>	-38.51	
26 29 13	13-0292	EA	Adapter Bracket For Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SBT1).....	53.47	11.56
			<i>For Factory Installed Accessory, Deduct</i>	-23.10	
26 29 13	13-0293	EA	1 Pole Control Circuit Fuse Holder, Contactor/Starter Accessory (Square D 9999SF3).....	105.25	15.41
			<i>For Factory Installed Accessory, Deduct</i>	-30.80	
26 29 13	13-0294	EA	2 Pole Control Circuit Fuse Holder, Contactor/Starter Accessory (Square D 9999SF4).....	138.55	19.25
			<i>For Factory Installed Accessory, Deduct</i>	-38.51	
26 29 13	13-0295	EA	Transient Suppression Module, Contactor/Starter Accessory (Square D 9999ST1).....	110.63	19.25
			<i>For Factory Installed Accessory, Deduct</i>	-38.51	
26 29 13	13-0296	EA	Terminal Block, Contactor/Starter Accessory (Square D 9999T7).....	61.84	11.56
			<i>For Factory Installed Accessory, Deduct</i>	-23.10	



	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0297	EA Closing Plate For NEMA 1 Enclosures, Contactor/Starter Accessory (Square D 9999SG1).....	39.74		11.56
	<i>For Factory Installed Accessory, Deduct</i>	-23.10		
26 29 13 13-0298	EA 1 Pole Disconnect Switch And Breaker Interlock, Contactor/Starter Accessory (Square D 9999R39)	187.84		15.41
	<i>For Factory Installed Accessory, Deduct</i>	-30.80		
26 29 13 13-0299	EA 2 Pole Disconnect Switch And Breaker Interlock, Contactor/Starter Accessory (Square D 9999R40)	321.18		19.25
	<i>For Factory Installed Accessory, Deduct</i>	-38.51		
26 29 13 13-0300	Definite Purpose Starters <small>(26 29 13 13)</small>			
26 29 13 13-0301	Open Enclosure, Definite Purpose Starter <small>(26 29 13 13-0300)</small>			
26 29 13 13-0302	EA Open Enclosure, 3 Phase, 3 Pole, 3 HP At 230 Volt, 5 HP At 460/575 Volt, 20 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO13)	672.61		184.82
	<i>For Factory Installed Accessory, Deduct</i>	-369.65		
26 29 13 13-0303	EA Open Enclosure, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 25 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO22)	671.59		184.82
	<i>For Factory Installed Accessory, Deduct</i>	-369.65		
26 29 13 13-0304	EA Open Enclosure, 3 Phase, 3 Pole, 7.5 HP At 230 Volt, 10 HP At 460/575 Volt, 25 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO23)	726.87		200.23
	<i>For Factory Installed Accessory, Deduct</i>	-400.45		
26 29 13 13-0305	EA Open Enclosure, 1 Phase, 2 Pole, 2 HP At 115 Volt, 5 HP At 230 Volt, 30 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO32)	709.33		184.82
	<i>For Factory Installed Accessory, Deduct</i>	-369.65		
26 29 13 13-0306	EA Open Enclosure, 3 Phase, 3 Pole, 10 HP At 230 Volt, 15 HP At 460/575 Volt, 30 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO33)	770.74		200.23
	<i>For Factory Installed Accessory, Deduct</i>	-400.45		
26 29 13 13-0307	EA Open Enclosure, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 40 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO42)	741.98		184.82
	<i>For Factory Installed Accessory, Deduct</i>	-369.65		
26 29 13 13-0308	EA Open Enclosure, 3 Phase, 3 Pole, 10 HP At 230 Volt, 20 HP At 460/575 Volt, 40 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO43)	869.07		231.03
	<i>For Factory Installed Accessory, Deduct</i>	-462.06		
26 29 13 13-0309	EA Open Enclosure, 1 Phase, 2 Pole, 3 HP At 115 Volt, 10 HP At 230 Volt, 50 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO52)	953.73		231.03
	<i>For Factory Installed Accessory, Deduct</i>	-462.06		
26 29 13 13-0310	EA Open Enclosure, 3 Phase, 3 Pole, 15 HP At 230 Volt, 30 HP At 460/575 Volt, 50 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO53)	1,189.88		269.54
	<i>For Factory Installed Accessory, Deduct</i>	-539.07		
26 29 13 13-0311	NEMA 1, Definite Purpose Starter <small>(26 29 13 13-0300)</small>			
26 29 13 13-0312	EA NEMA 1, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 20 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG12)	677.51		169.42
	<i>For Factory Installed Accessory, Deduct</i>	-338.85		
26 29 13 13-0313	EA NEMA 1, 3 Phase, 3 Pole, 3 HP At 230 Volt, 5 HP At 460/575 Volt, 20 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG13)	732.80		184.82
	<i>For Factory Installed Accessory, Deduct</i>	-369.65		
26 29 13 13-0314	EA NEMA 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 25 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG22)	730.76		184.82
	<i>For Factory Installed Accessory, Deduct</i>	-369.65		
26 29 13 13-0315	EA NEMA 1, 3 Phase, 3 Pole, 7.5 HP At 230 Volt, 10 HP At 460/575 Volt, 25 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG23)	789.10		200.23
	<i>For Factory Installed Accessory, Deduct</i>	-400.45		
26 29 13 13-0316	EA NEMA 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 5 HP At 230 Volt, 30 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG32)	769.52		184.82
	<i>For Factory Installed Accessory, Deduct</i>	-369.65		
26 29 13 13-0317	EA NEMA 1, 3 Phase, 3 Pole, 10 HP At 230 Volt, 15 HP At 460/575 Volt, 30 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG33)	831.94		200.23
	<i>For Factory Installed Accessory, Deduct</i>	-400.45		
26 29 13 13-0318	EA NEMA 1, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 40 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG42)	804.20		184.82
	<i>For Factory Installed Accessory, Deduct</i>	-369.65		
26 29 13 13-0319	EA NEMA 1, 3 Phase, 3 Pole, 10 HP At 230 Volt, 20 HP At 460/575 Volt, 40 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG43)	930.27		231.03
	<i>For Factory Installed Accessory, Deduct</i>	-462.06		
26 29 13 13-0320	EA NEMA 1, 1 Phase, 2 Pole, 3 HP At 115 Volt, 10 HP At 230 Volt, 50 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG52)	1,011.88		231.03
	<i>For Factory Installed Accessory, Deduct</i>	-462.06		
26 29 13 13-0321	EA NEMA 1, 3 Phase, 3 Pole, 15 HP At 230 Volt, 30 HP At 460/575 Volt, 50 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG53)	1,249.04		269.54
	<i>For Factory Installed Accessory, Deduct</i>	-539.07		
26 29 13 13-0322	Definite Purpose Starter Accessory <small>(26 29 13 13-0300)</small>			
26 29 13 13-0323	EA Start-Stop Push Button Kit, Definite Purpose Starter Accessory	194.38		19.25
	Note: Or Hand-Off-Auto Selector Switch Kit			
	<i>For Factory Installed Accessory, Deduct</i>	-38.51		
26 29 13 13-0324	Panel Mounted Miniature Contactor <small>(26 29 13 13)</small>			
26 29 13 13-0325	Non-Reversing, Panel Mounted Miniature Contactor <small>(26 29 13 13-0324)</small>			



Electrical	26	26
Low-Voltage Electrical Distribution	26 20	
Low-Voltage Controllers	26 29	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0354 EA 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amperes, 20 Amperes, DC Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LP2K).....	395.88	84.71
26 29 13 13-0355 EA 3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 12 Amperes, 20 Amperes, DC Coil, Reversing, Panel Mounted Miniature Contactor (Square D LP2K).....	421.48	92.41
26 29 13 13-0356 EA 3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 12 Amperes, 20 Amperes, DC Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LP2K).....	441.88	92.41
26 29 13 13-0357 EA 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amperes, 20 Amperes, DC Low Consumption Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LP5K).....	364.25	84.71
26 29 13 13-0358 EA 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amperes, 20 Amperes, DC Low Consumption Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LP5K).....	412.20	84.71
26 29 13 13-0359 EA 3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 12 Amperes, 20 Amperes, DC Low Consumption Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LP5K).....	464.32	92.41
26 29 13 13-0360 Panel Mounted Miniature Contactor Accessories (26 29 13 13-0324)		
26 29 13 13-0361 EA 2 Auxiliary Contacts, 10 Amperes, Panel Mounted Miniature Contactor Accessory (Square D LA1KN02).....	93.03	38.51
26 29 13 13-0362 EA 4 Auxiliary Contacts, 10 Amperes, Panel Mounted Miniature Contactor Accessory (Square D LA1KN40).....	100.90	38.51
26 29 13 13-0363 EA Electronic Time Delay Contact, 2 Amperes, Panel Mounted Miniature Contactor Accessory (Square D LA2KT2U).....	115.16	38.51
26 29 13 13-0364 EA Overload Relay, Panel Mounted Miniature Contactor Accessory (Square D LR2K0301).....	143.53	38.51
26 29 13 13-0365 Reduced Voltage Auto Transformer Type 240-600 Volt, 3 Pole (26 29 13 13)		
26 29 13 13-0366 NEMA 1 Enclosure (26 29 13 13-0365)		
26 29 13 13-0367 EA Reduced Voltage Auto Transformer Starter, Size 3, 50 HP, NEMA 1, 240 - 600 Volt, 3 Pole, Non-Reversing.....	7,664.37	738.35
For NEMA 4, Add	769.54	
26 29 13 13-0368 EA Reduced Voltage Auto Transformer Starter, Size 4, 100 HP, NEMA 1, 240 - 600 Volt, 3 Pole, Non-Reversing.....	13,217.02	984.46
For NEMA 4, Add	1,405.62	
26 29 13 13-0369 EA Reduced Voltage Auto Transformer Starter, Size 5, 200 HP, NEMA 1, 240 - 600 Volt, 3 Pole, Non-Reversing.....	22,854.37	1,169.04
For NEMA 4, Add	2,565.47	
26 29 13 13-0370 EA Reduced Voltage Auto Transformer Starter, Size 6, 300 HP, NEMA 1, 240 - 600 Volt, 3 Pole, Non-Reversing.....	55,017.65	1,430.54
For NEMA 4, Add	6,521.14	
26 29 13 13-0371 EA Reduced Voltage Auto Transformer Starter, Size 7, 600 HP, NEMA 1, 240 - 600 Volt, 3 Pole, Non-Reversing.....	87,554.32	1,830.47
For NEMA 4, Add	10,486.49	
26 29 13 13-0372 NEMA 12 Enclosure (26 29 13 13-0365)		
26 29 13 13-0373 EA Reduced Voltage Auto Transformer Starter, Size 3, 50 HP, NEMA 12, 240 - 600 Volt, 3 Pole, Non-Reversing.....	7,613.09	754.04
26 29 13 13-0374 EA Reduced Voltage Auto Transformer Starter, Size 4, 100 HP, NEMA 12, 240 - 600 Volt, 3 Pole, Non-Reversing.....	13,123.35	986.00
26 29 13 13-0375 EA Reduced Voltage Auto Transformer Starter, Size 5, 200 HP, NEMA 12, 240 - 600 Volt, 3 Pole, Non-Reversing.....	22,683.42	1,165.35
26 29 13 13-0376 EA Reduced Voltage Auto Transformer Starter, Size 6, 300 HP, NEMA 12, 240 - 600 Volt, 3 Pole, Non-Reversing.....	54,583.11	1,424.23
26 29 13 13-0377 EA Reduced Voltage Auto Transformer Starter, Size 7, 600 HP, NEMA 12, 240 - 600 Volt, 3 Pole, Non-Reversing.....	86,855.55	1,831.24
26 29 13 13-0378 Factory Modifications Pilot Devices (26 29 13 13-0365)		
26 29 13 13-0379 EA Start-Stop Push-button, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device.....	181.31	
26 29 13 13-0380 EA H-O-A Select Switch, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device.....	199.96	
26 29 13 13-0381 EA Forward-Reverse-Stop, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device.....	340.37	
26 29 13 13-0382 EA Pilot Light, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device.....	184.93	
26 29 13 13-0383 EA Fused Control Circuit, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device.....	265.91	
26 29 13 13-0384 EA Auxiliary Interlock, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device.....	132.96	
26 29 13 13-0385 EA Auxiliary Relay, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device.....	433.96	
26 29 13 13-0386 Factory Modifications Meters (26 29 13 13-0365)		
26 29 13 13-0387 EA Ammeter And Switch, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Meter.....	1,744.40	
26 29 13 13-0388 EA Voltmeter, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Meter.....	1,684.85	
26 29 13 13-0389 EA Wattmeter, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Meter.....	595.65	
26 29 13 13-0390 EA Elapsed-time Meter, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Meter.....	493.55	
26 29 13 13-0391 Factory Modifications Main Circuit Breakers (26 29 13 13-0365)		
26 29 13 13-0392 EA Reduced Voltage Auto Transformer Starter, Size 3, Circuit Breaker, Factory Modification Main Circuit Breaker.....	2,305.48	
26 29 13 13-0393 EA Reduced Voltage Auto Transformer Starter, Size 4, Circuit Breaker, Factory Modification Main Circuit Breaker.....	4,216.43	
26 29 13 13-0394 EA Reduced Voltage Auto Transformer Starter, Size 5-7, Circuit Breaker, Factory Modification Main Circuit Breaker.....	8,968.76	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 29 Low-Voltage Controllers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0395 Factory Modifications Addition <small>(26 29 13 13-0365)</small>		
Note: For reversing service auto transformer type.		
26 29 13 13-0396 EA Reduced Voltage Auto Transformer Starter, Size 3, Factory Modification For Reversing Type 240 - 600 Volt, 3 Phase	387.19	
26 29 13 13-0397 EA Reduced Voltage Auto Transformer Starter, Size 4, Factory Modification For Reversing Type 240 - 600 Volt, 3 Phase	387.19	
26 29 13 13-0398 EA Reduced Voltage Auto Transformer Starter, Size 5, Factory Modification For Reversing Type 240 - 600 Volt, 3 Phase	387.19	
26 29 13 13-0399 EA Reduced Voltage Auto Transformer Starter, Size 6, 7, Factory Modification For Reversing Type 240 - 600 Volt, 3 Phase	387.19	
26 29 13 13-0400 Combination Starters Non-Reversing <small>(26 29 13 13)</small>		
26 29 13 13-0401 240-600 Volt, 3-Pole <small>(26 29 13 13-0400)</small>		
26 29 13 13-0402 NEMA 1 With Disconnect Switch <small>(26 29 13 13-0401)</small>		
26 29 13 13-0403 EA Combination Starter, Size 0, NEMA 1 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	1,943.36	353.79
For Electronic Overloads, Add	233.93	
26 29 13 13-0404 EA Combination Starter, Size 1, NEMA 1 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	2,413.52	553.76
For Electronic Overloads, Add	246.79	
26 29 13 13-0405 EA Combination Starter, Size 2, NEMA 1 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	3,338.41	646.05
For Electronic Overloads, Add	390.75	
26 29 13 13-0406 EA Combination Starter, Size 3, NEMA 1 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	5,025.40	799.88
For Electronic Overloads, Add	650.39	
26 29 13 13-0407 EA Combination Starter, Size 4, NEMA 1 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	9,166.34	1,276.72
For Electronic Overloads, Add	1,254.50	
26 29 13 13-0408 EA Combination Starter, Size 5, NEMA 1 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	18,029.00	1,599.74
For Electronic Overloads, Add	2,816.63	
26 29 13 13-0409 NEMA 1 With Circuit Breaker <small>(26 29 13 13-0401)</small>		
26 29 13 13-0410 EA Combination Starter, Size 0, NEMA 1 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase	2,430.44	353.79
For Electronic Overloads, Add	326.48	
26 29 13 13-0411 EA Combination Starter, Size 1, NEMA 1 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase	2,900.60	553.76
For Electronic Overloads, Add	339.33	
26 29 13 13-0412 EA Combination Starter, Size 2, NEMA 1 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase	3,811.96	646.05
For Electronic Overloads, Add	480.72	
26 29 13 13-0413 EA Combination Starter, Size 3, NEMA 1 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase	5,282.47	799.88
For Electronic Overloads, Add	699.23	
26 29 13 13-0414 EA Combination Starter, Size 4, NEMA 1 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase	10,641.11	1,276.72
For Electronic Overloads, Add	1,534.71	
26 29 13 13-0415 EA Combination Starter, Size 5, NEMA 1 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase	21,939.17	1,599.74
For Electronic Overloads, Add	3,559.57	
26 29 13 13-0416 Factory Modifications For NEMA 1 Enclosure <small>(26 29 13 13-0401)</small>		
26 29 13 13-0417 EA Start-Stop Push-button, Factory Modifications - NEMA 1 Combination Motor Starter, 240 - 600 Volt	221.81	
26 29 13 13-0418 EA H-O-A Select Switch, Factory Modifications - NEMA 1 Combination Motor Starter, 240 - 600 Volt	520.99	
26 29 13 13-0419 EA Pilot Light, Factory Modifications - NEMA 1 Combination Motor Starter, 240 - 600 Volt	359.57	
26 29 13 13-0420 NEMA 4 With Disconnect Switch <small>(26 29 13 13-0401)</small>		
26 29 13 13-0421 EA Combination Starter, Size 0, NEMA 4 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	3,479.63	461.46
For Electronic Overloads, Add	480.72	
26 29 13 13-0422 EA Combination Starter, Size 1, NEMA 4 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	3,879.61	646.05
For Electronic Overloads, Add	493.57	
26 29 13 13-0423 EA Combination Starter, Size 2, NEMA 4 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	5,483.28	707.57
For Electronic Overloads, Add	771.21	
26 29 13 13-0424 EA Combination Starter, Size 3, NEMA 4 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	8,622.97	861.40
For Electronic Overloads, Add	1,313.63	
26 29 13 13-0425 EA Combination Starter, Size 4, NEMA 4 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	13,631.24	1,276.72
For Electronic Overloads, Add	2,102.83	
26 29 13 13-0426 EA Combination Starter, Size 5, NEMA 4 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	29,421.27	1,599.74
For Electronic Overloads, Add	4,981.17	
26 29 13 13-0427 NEMA 4 With Circuit Breaker <small>(26 29 13 13-0401)</small>		
26 29 13 13-0428 EA Combination Starter, Size 0, NEMA 4 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase	3,966.71	461.46
For Electronic Overloads, Add	573.27	
26 29 13 13-0429 EA Combination Starter, Size 1, NEMA 4 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase	4,366.69	646.05
For Electronic Overloads, Add	586.12	
26 29 13 13-0430 EA Combination Starter, Size 2, NEMA 4 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase	5,956.83	707.57
For Electronic Overloads, Add	861.19	
26 29 13 13-0431 EA Combination Starter, Size 3, NEMA 4 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase	8,880.04	861.40
For Electronic Overloads, Add	1,362.47	
26 29 13 13-0432 EA Combination Starter, Size 4, NEMA 4 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase	15,106.01	1,276.72
For Electronic Overloads, Add	2,383.04	
26 29 13 13-0433 EA Combination Starter, Size 5, NEMA 4 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase	27,892.38	1,599.74
For Electronic Overloads, Add	4,690.68	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0434 Factory Modifications For NEMA 4 Enclosure <small>(26 29 13 13-0401)</small>		
26 29 13 13-0435 EA Start-Stop Push-button, Factory Modifications - NEMA 4 Combination Motor Starter, 240 - 600 Volt.....	221.84	
26 29 13 13-0436 EA H-O-A Select Switch, Factory Modifications - NEMA 4 Combination Motor Starter, 240 - 600 Volt.....	520.99	
26 29 13 13-0437 EA Pilot Light, Factory Modifications - NEMA 4 Combination Motor Starter, 240 - 600 Volt.....	359.57	
26 29 13 13-0438 NEMA 12 With Disconnect Switch <small>(26 29 13 13-0401)</small>		
26 29 13 13-0439 EA Combination Starter, Size 0, NEMA 12 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	2,004.92	356.10
For Electronic Overloads, Add	245.63	
26 29 13 13-0440 EA Combination Starter, Size 1, NEMA 12 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	2,478.46	557.29
For Electronic Overloads, Add	259.13	
26 29 13 13-0441 EA Combination Starter, Size 2, NEMA 12 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	3,441.24	640.98
For Electronic Overloads, Add	410.28	
26 29 13 13-0442 EA Combination Starter, Size 3, NEMA 12 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	5,196.55	801.11
For Electronic Overloads, Add	682.91	
26 29 13 13-0443 EA Combination Starter, Size 4, NEMA 12 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	9,496.46	1,281.95
For Electronic Overloads, Add	1,317.23	
26 29 13 13-0444 EA Combination Starter, Size 5, NEMA 12 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase	18,770.20	1,602.20
For Electronic Overloads, Add	2,957.46	
26 29 13 13-0445 NEMA 12 With Circuit Breaker <small>(26 29 13 13-0401)</small>		
26 29 13 13-0446 EA Combination Starter, Size 0, NEMA 12 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	2,586.53	356.10
For Electronic Overloads, Add	356.14	
26 29 13 13-0447 EA Combination Starter, Size 1, NEMA 12 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	3,062.83	557.29
For Electronic Overloads, Add	370.16	
26 29 13 13-0448 EA Combination Starter, Size 2, NEMA 12 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	4,041.79	640.98
For Electronic Overloads, Add	524.39	
26 29 13 13-0449 EA Combination Starter, Size 3, NEMA 12 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	5,616.77	801.11
For Electronic Overloads, Add	762.75	
26 29 13 13-0450 EA Combination Starter, Size 4, NEMA 12 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	11,374.85	1,281.95
For Electronic Overloads, Add	1,674.12	
26 29 13 13-0451 EA Combination Starter, Size 5, NEMA 12 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	23,640.98	1,602.20
For Electronic Overloads, Add	3,882.91	
26 29 13 13-0452 Factory Modifications For NEMA 12 Enclosure <small>(26 29 13 13-0401)</small>		
26 29 13 13-0453 EA Start-Stop Push-button, Factory Modifications - NEMA 12 Combination Motor Starter, 240 - 600 Volt.....	219.99	
26 29 13 13-0454 EA H-O-A Select Switch, Factory Modifications - NEMA 12 Combination Motor Starter, 240 - 600 Volt.....	516.65	
26 29 13 13-0455 EA Pilot Light, Factory Modifications - NEMA 12 Combination Motor Starter, 240 - 600 Volt.....	356.57	
26 29 13 13-0456 NEMA 7 Or 9 With Circuit Breaker <small>(26 29 13 13-0401)</small>		
26 29 13 13-0457 EA Combination Starter, Size 0, NEMA 7 Or 9 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	4,488.24	738.35
26 29 13 13-0458 EA Combination Starter, Size 1, NEMA 7 Or 9 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	6,075.71	984.46
26 29 13 13-0459 EA Combination Starter, Size 2, NEMA 7 Or 9 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	6,694.95	1,353.63
26 29 13 13-0460 EA Combination Starter, Size 3, NEMA 7 Or 9 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	9,895.81	1,845.86
26 29 13 13-0461 EA Combination Starter, Size 4, NEMA 7 Or 9 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	14,849.32	2,584.20
26 29 13 13-0462 Factory Modifications For NEMA 7 Or 9 Enclosure <small>(26 29 13 13-0401)</small>		
26 29 13 13-0463 EA Start-Stop Push-button, Factory Modifications - NEMA 7 Or 9 Combination Motor Starter, 240 - 600 Volt.....	1,319.15	
26 29 13 13-0464 EA H-O-A Select Switch, Factory Modifications - NEMA 7 Or 9 Combination Motor Starter, 240 - 600 Volt.....	1,319.15	
26 29 13 13-0465 EA Pilot Light, Factory Modifications - NEMA 7 Or 9 Combination Motor Starter, 240 - 600 Volt.....	1,319.15	
26 29 13 13-0466 Combination Starters Reversing <small>(26 29 13 13)</small>		
26 29 13 13-0467 240-600 Volt, 3 Pole <small>(26 29 13 13-0466)</small>		
26 29 13 13-0468 NEMA 1 With Disconnect Switch <small>(26 29 13 13-0467)</small>		
26 29 13 13-0469 EA Combination Starter, Size 0, NEMA 1 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase.....	2,416.75	461.46
26 29 13 13-0470 EA Combination Starter, Size 1, NEMA 1 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase.....	2,847.33	646.05
26 29 13 13-0471 EA Combination Starter, Size 2, NEMA 1 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase.....	4,041.05	707.57
26 29 13 13-0472 EA Combination Starter, Size 3, NEMA 1 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase.....	6,045.33	861.40
26 29 13 13-0473 EA Combination Starter, Size 4, NEMA 1 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase.....	11,645.47	1,276.72
26 29 13 13-0474 NEMA 1 With Circuit Breaker <small>(26 29 13 13-0467)</small>		
26 29 13 13-0475 EA Combination Starter, Size 0, NEMA 1 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase	2,673.75	461.46
26 29 13 13-0476 EA Combination Starter, Size 1, NEMA 1 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase	3,121.67	646.05
26 29 13 13-0477 EA Combination Starter, Size 2, NEMA 1 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase	4,362.20	707.57
26 29 13 13-0478 EA Combination Starter, Size 3, NEMA 1 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase	5,603.19	861.40
26 29 13 13-0479 EA Combination Starter, Size 4, NEMA 1 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase	12,514.13	1,276.72
26 29 13 13-0480 NEMA 12 With Disconnect Switch <small>(26 29 13 13-0467)</small>		
26 29 13 13-0481 EA Combination Starter, Size 0, NEMA 12 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase.....	2,566.20	474.85
26 29 13 13-0482 EA Combination Starter, Size 1, NEMA 12 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase.....	3,006.79	640.98
26 29 13 13-0483 EA Combination Starter, Size 2, NEMA 12 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase.....	4,307.59	712.19

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 29 Low-Voltage Controllers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0484 EA Combination Starter, Size 3, NEMA 12 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase.....	6,486.99	854.63
26 29 13 13-0485 EA Combination Starter, Size 4, NEMA 12 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase.....	12,570.50	1,281.95
26 29 13 13-0486 NEMA 12 With Circuit Breaker (26 29 13 13-0467)		
26 29 13 13-0487 EA Combination Starter, Size 0, NEMA 12 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	2,849.37	474.85
26 29 13 13-0488 EA Combination Starter, Size 1, NEMA 12 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	3,309.07	640.98
26 29 13 13-0489 EA Combination Starter, Size 2, NEMA 12 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	4,661.45	712.19
26 29 13 13-0490 EA Combination Starter, Size 3, NEMA 12 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	5,999.82	854.63
26 29 13 13-0491 EA Combination Starter, Size 4, NEMA 12 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	13,527.64	1,281.95
26 29 13 13-0492 NEMA 7 Or 9 With Circuit Breaker (26 29 13 13-0467)		
26 29 13 13-0493 EA Combination Starter, Size 0, NEMA 7 Or 9 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	5,469.57	984.46
26 29 13 13-0494 EA Combination Starter, Size 1, NEMA 7 Or 9 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	5,928.15	1,230.58
26 29 13 13-0495 EA Combination Starter, Size 2, NEMA 7 Or 9 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	8,473.31	1,599.74
26 29 13 13-0496 EA Combination Starter, Size 3, NEMA 7 Or 9 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	13,346.57	2,091.97
26 29 13 13-0497 EA Combination Starter, Size 4, NEMA 7 Or 9 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	24,069.51	2,830.32
26 29 13 13-0498 Solid State Motor Controllers (26 29 13 13)		
26 29 13 13-0499 Adjustable Voltage Drives, DC Motors (26 29 13 13-0498)		
26 29 13 13-0500 EA 0.5-1.5 HP DC Solid State Motor Controller, Reversing With Dynamic Braking	1,886.78	276.88
26 29 13 13-0501 EA 0.5-2.0 HP DC Solid State Motor Controller, Non-Reversing With Dynamic Braking.....	2,246.39	276.88
26 29 13 13-0502 Removal And Reinstallation Of Motor Starters (26 29 13 13)		
Note: Includes storage and cleaning.		
26 29 13 13-0503 EA Removal And Reinstallation Of Up To 25 HP Motor Starter With Disconnect.....	1,098.73	
26 29 13 13-0504 Auxiliary Devices (26 29 13 13)		
26 29 13 13-0505 EA Normally Open, Auxiliary Contact	587.64	153.82
26 29 13 13-0506 EA Normally Closed, Auxiliary Contact.....	587.64	153.82
26 29 13 13-0507 EA Pilot Light Kit.....	615.89	153.82
26 29 23 Variable-Frequency Motor Controllers (26 29)		
26 29 23 00-0001 208/230 Volt, Ultra Low Harmonic (ULH) Variable Frequency Drives (26 29 23)		
Note: 1 or 3 phase. Wall mounted. ABB ACH580 Series. Includes full voltage bypass with main input circuit breaker. NEMA 1 enclosure.		
26 29 23 00-0002 EA 3/4 HP, 208/230 Volt Variable Frequency Drive	2,531.96	567.96
For 6-Pulse Drive Package, Deduct	-767.75	
26 29 23 00-0003 EA 1 HP, 208/230 Volt Variable Frequency Drive	2,842.77	620.75
For 6-Pulse Drive Package, Deduct	-883.86	
26 29 23 00-0004 EA 1-1/2 HP, 208/230 Volt Variable Frequency Drive	3,290.04	682.55
For 6-Pulse Drive Package, Deduct	-1,058.72	
26 29 23 00-0005 EA 2 HP, 208/230 Volt Variable Frequency Drive	3,444.51	656.08
For 6-Pulse Drive Package, Deduct	-1,172.79	
26 29 23 00-0006 EA 3 HP, 208/230 Volt Variable Frequency Drive	3,697.10	715.31
For 6-Pulse Drive Package, Deduct	-1,246.56	
26 29 23 00-0007 EA 5 HP, 208/230 Volt Variable Frequency Drive	3,976.53	715.31
For 6-Pulse Drive Package, Deduct	-1,400.25	
26 29 23 00-0008 EA 7.5 HP, 208/230 Volt Variable Frequency Drive	4,750.82	854.08
For 6-Pulse Drive Package, Deduct	-1,673.46	
26 29 23 00-0009 EA 10 HP, 208/230 Volt Variable Frequency Drive	5,154.43	854.08
For 6-Pulse Drive Package, Deduct	-1,895.45	
26 29 23 00-0010 EA 15 HP, 208/230 Volt Variable Frequency Drive	6,856.54	1,285.98
For 6-Pulse Drive Package, Deduct	-2,356.51	
26 29 23 00-0011 EA 20 HP, 208/230 Volt Variable Frequency Drive	7,974.24	1,285.98
For 6-Pulse Drive Package, Deduct	-2,971.24	
26 29 23 00-0012 EA 25 HP, 208/230 Volt Variable Frequency Drive	9,781.22	1,708.31
For 6-Pulse Drive Package, Deduct	-3,500.61	
26 29 23 00-0013 EA 30 HP, 208/230 Volt Variable Frequency Drive	11,178.36	1,708.31
For 6-Pulse Drive Package, Deduct	-4,269.03	
26 29 23 00-0014 EA 40 HP, 208/230 Volt Variable Frequency Drive	12,389.21	1,708.31
For 6-Pulse Drive Package, Deduct	-4,935.00	
26 29 23 00-0015 EA 50 HP, 208/230 Volt Variable Frequency Drive	16,303.24	2,159.52
For 6-Pulse Drive Package, Deduct	-6,591.39	
26 29 23 00-0016 EA 60 HP, 208/230 Volt Variable Frequency Drive	19,639.57	2,554.66
For 6-Pulse Drive Package, Deduct	-7,991.63	
26 29 23 00-0017 EA 75 HP, 208/230 Volt Variable Frequency Drive	22,123.37	2,554.66
For 6-Pulse Drive Package, Deduct	-9,357.72	
26 29 23 00-0018 460/480 Volt, Ultra Low Harmonic (ULH) Variable Frequency Drives (26 29 23)		
Note: 3 Phase. ABB ACH580 Series. Includes full voltage bypass with main circuit breaker. NEMA 1 enclosure.		
26 29 23 00-0019 EA 3 HP, 480 Volt Variable Frequency Drive	5,893.68	1,021.90
Note: Wall mounted.		
For 6-Pulse Drive Package, Deduct	-2,117.44	



Electrical	26	26
Low-Voltage Electrical Distribution	26 20	
Low-Voltage Controllers	26 29	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 23 00-0020 EA 5 HP, 480 Volt Variable Frequency Drive Note: Wall mounted. <i>For 6-Pulse Drive Package, Deduct</i>	6,079.97 -2,219.90	1,021.90
26 29 23 00-0021 EA 7.5 HP, 480 Volt Variable Frequency Drive Note: Wall mounted. <i>For 6-Pulse Drive Package, Deduct</i>	6,688.58 -2,339.43	1,217.60
26 29 23 00-0022 EA 10 HP, 480 Volt Variable Frequency Drive Note: Wall mounted. <i>For 6-Pulse Drive Package, Deduct</i>	6,719.63 -2,356.51	1,217.60
26 29 23 00-0023 EA 15 HP, 480 Volt Variable Frequency Drive Note: Wall mounted. <i>For 6-Pulse Drive Package, Deduct</i>	9,094.13 -2,971.24	1,845.93
26 29 23 00-0024 EA 20 HP, 480 Volt Variable Frequency Drive Note: Wall mounted. <i>For 6-Pulse Drive Package, Deduct</i>	9,528.80 -3,210.31	1,845.93
26 29 23 00-0025 EA 25 HP, 480 Volt Variable Frequency Drive Note: Wall mounted. <i>For 6-Pulse Drive Package, Deduct</i>	11,545.49 -3,671.37	2,435.21
26 29 23 00-0026 EA 30 HP, 480 Volt Variable Frequency Drive Note: Wall mounted. <i>For 6-Pulse Drive Package, Deduct</i>	13,097.87 -4,525.17	2,435.21
26 29 23 00-0027 EA 40 HP, 480 Volt Variable Frequency Drive Note: Wall mounted. <i>For 6-Pulse Drive Package, Deduct</i>	14,712.34 -5,413.13	2,435.21
26 29 23 00-0028 EA 50 HP, 480 Volt Variable Frequency Drive Note: Wall mounted. <i>For 6-Pulse Drive Package, Deduct</i>	19,226.40 -7,171.97	3,093.30
26 29 23 00-0029 EA 60 HP, 480 Volt Variable Frequency Drive Note: Wall mounted. <i>For 6-Pulse Drive Package, Deduct</i>	25,468.27 -9,972.46	3,668.27
26 29 23 00-0030 EA 75 HP, 480 Volt Variable Frequency Drive Note: Wall mounted. <i>For 6-Pulse Drive Package, Deduct</i>	26,958.55 -10,792.11	3,668.27
26 29 23 00-0031 EA 100 HP, 480 Volt Variable Frequency Drive Note: Wall mounted. <i>For 6-Pulse Drive Package, Deduct</i>	31,150.18 -12,636.33	4,087.58
26 29 23 00-0032 EA 125 HP, 480 Volt Variable Frequency Drive Note: Wall mounted. <i>For 6-Pulse Drive Package, Deduct</i>	32,764.65 -13,524.29	4,087.58
26 29 23 00-0033 EA 150 HP, 480 Volt Variable Frequency Drive Note: Floor mounted. <i>For 6-Pulse Drive Package, Deduct</i>	36,117.78 -15,368.51	4,087.58
26 29 23 00-0034 EA 200 HP, 480 Volt Variable Frequency Drive Note: Floor mounted. <i>For 6-Pulse Drive Package, Deduct</i>	41,783.28 -17,554.26	4,933.23
26 29 23 00-0035 EA 250 HP, 480 Volt Variable Frequency Drive Note: Floor mounted. <i>For 6-Pulse Drive Package, Deduct</i>	51,890.58 -22,871.08	5,153.40
26 29 23 00-0036 EA 300 HP, 480 Volt Variable Frequency Drive Note: Floor mounted. <i>For 6-Pulse Drive Package, Deduct</i>	60,807.24 -26,939.30	5,913.34
26 29 23 00-0037 EA 350 HP, 480 Volt Variable Frequency Drive Note: Floor mounted. <i>For 6-Pulse Drive Package, Deduct</i>	69,803.69 -31,337.42	6,413.21
26 29 23 00-0038 EA 400 HP, 480 Volt Variable Frequency Drive Note: Floor mounted. <i>For 6-Pulse Drive Package, Deduct</i>	80,704.94 -36,770.36	6,924.95
26 29 23 00-0039 EA 450 HP, 480 Volt Variable Frequency Drive Note: Floor mounted. <i>For 6-Pulse Drive Package, Deduct</i>	86,997.99 -39,588.60	7,509.35

END OF SECTION 26

26	26	Electrical
	26 20	Low-Voltage Electrical Distribution
	26 29	Low-Voltage Controllers



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
------------------------------	---------------------------	-------------------------

THIS PAGE INTENTIONALLY LEFT BLANK

This Page Intentionally Left Blank



gordian.com | 855.467.9444

30 Patewood Drive
Building 2, Suite 350
Greenville, South Carolina 29615