

SECTION 08100
METAL DOORS AND FRAMES

PART 1 - GENERAL

1.01 SUMMARY

- A. Section includes access doors and frames for walls and ceilings.

1.02 ACTION SUBMITTALS

- A. Product Data: For each type of product.
- B. Samples: For each type of access door and frame, lockset, closer and for each finish specified.

1.03 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.
- B. The WORK of the following Sections applies to the WORK of this Section. Other Sections of the Specifications, not referenced below, shall also apply to the extent required for proper performance of this WORK.
 - 1. Section 07900 Sealants
 - 2. Section 09900 Painting

PART 2 - PRODUCTS

2.01 ACCESS DOORS, FRAMES and HARDWARE

- A. Flush Access Doors with Exposed Flanges
 - 1. Suppliers: CECO Door; Metropolitan Door Industries; or approved equal.
 - 2. Description: Face of door flush with frame, with exposed flange and concealed hinge, masonry anchors.
 - 3. Locations: Masonry Wall.
 - 4. Metallic-Coated Steel Sheet for Door: Nominal 16 gauge, factory primed.
 - 5. Frame Material: Same material, thickness, and finish as door.

B. Hardware

1. Latch and Lockset: Corbin CL3500 Series Heavy Duty Stainless Steel Construction Lockset with Lever Style Handle (or equivalent) meeting the requirements of ANSI/BMHA A156.2 Series, Grade 1 and A117.1 Accessibility Code. OR EQUAL QUALITY AND INCLUDES A COMPATIBLE EMERGENCY EXIT DEVICE (PANIC BAR).
2. Opener: Corbin DC3000 Series Door Closer with Heavy-Duty Reversible Backstop Parallel Arm (or equivalent) with hold open option meeting the requirements of ANSI/BMHA A156.4 Series, Grade 1 and ANSI A117.1 Accessibility Code.

2.02 MATERIALS

A. Door and Frame

1. Steel Plates, Shapes, and Bars: ASTM A 36/A 36M.
2. Steel Sheet: Uncoated or electrolytic zinc coated, ASTM A 879/A 879M, with cold-rolled steel sheet substrate complying with ASTM A 1008/A 1008M, Commercial Steel (CS), exposed.
3. Metallic-Coated Steel Sheet: ASTM A 653/A 653M, Commercial Steel (CS), Type B; with minimum G60 or A60 metallic coating.
4. Stainless-Steel Sheet, Strip, Plate, and Flat Bars: ASTM A 666, Type 304 or Type 316. Remove tool and die marks and stretch lines, or blend into finish.
5. Frame Anchors: Same material as door face.
6. Inserts, Bolts, and Anchor Fasteners: Hot-dip galvanized steel according to ASTM A 153/A 153M or ASTM F 2329.

B. Hardware

1. Door Lockset hardware shall meet ANSI/BMHA A156.2 Series, Grade 1. Latchbolt and striker shall be stainless steel.
2. Door closer hardware shall meet ANSI/ BMHA A156.4 Series, Grade 1. Latchbolt and striker shall be stainless steel.

2.03 FABRICATION

- A. Metal Surfaces: For metal surfaces exposed to view in the completed Work, provide materials with smooth, flat surfaces without blemishes. Do not use materials with exposed pitting, seam marks, roller marks, rolled trade names, or roughness.

B. Doors and Frames: Grind exposed welds smooth and flush with adjacent surfaces. Furnish mounting holes, attachment devices and fasteners of type required to secure access doors to types of supports indicated.

C. Latch and Lock Hardware:

1. Quantity: Furnish number of locksets required to hold doors tightly closed.
2. Keys: Furnish two keys per lock and key all locks alike.
3. Lockset Preparation: Where indicated, prepare door panel to accept lockset.

2.04 FINISHES

A. Door and Door Frame

1. Painted Finishes: Comply with coating manufacturer's written instructions for cleaning, conversion coating, and applying and baking finish.
 - a. Factory Primed: Apply manufacturer's standard, lead- and chromate-free, universal primer immediately after surface preparation and pretreatment.
 - b. Topcoat finish per Section 09900.

B. Lockset

1. Lockset
 - a. Satin Chrome finish per manufacturer's specifications. Finish shall meet ANSI/BMHA A156.2, Grade 1 requirements.
2. Door Closer
 - a. Silver Aluminum finish per manufacturer's specifications. Finish shall meet ANSI/BMHA A156.4 Series, Grade 1 requirements.

PART 3 - EXECUTION

3.01 INSTALLATION

- A. Comply with manufacturer's written instructions for installing access doors and frames.
- B. Adjust doors and hardware, after installation, for proper operation.

PART 4 - MEASUREMENT AND PAYMENT

4.01 MEASUREMENT

Measurement for the Metal Door and Frame installation will be made at the Contract unit price per each, complete in place, at each location installed and accepted by the Engineer.

4.02 PAYMENT

All costs incurred by the Contractor by reason of compliance to satisfy the requirements under this section shall be considered incidental to and completely covered by the Contract unit price for the following bid items:

<u>Bid Item Number</u>	<u>Description</u>	<u>Unit(s)</u>
21	Metal Door Installation	Each

END OF SECTION