

SECTION 08 3113

ACCESS DOORS AND FRAMES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section Includes:
   1. Access doors and frames for walls and ceilings.

B. Related Requirements: Refer to Section 09 0600 and the ID Matrix for additional information and specifications.

1.3 ACTION SUBMITTALS

A. Product Data: For each type of product.
   1. Include construction details, fire ratings, materials, individual components and profiles, and finishes.

B. Shop Drawings:
   1. Include plans, elevations, sections, details, and attachments to other work.
   2. Detail fabrication and installation of access doors and frames for each type of substrate.

C. Samples: For each door face material, at least 3 by 5 inches (75 by 125 mm) in size, in specified finish.

D. Product Schedule: Provide complete access door and frame schedule, including types, locations, sizes, latching or locking provisions, and other data pertinent to installation.

E. Coordination Drawings: Drawings of elevations and plans, drawn to scale, showing access door and frame locations, orientation, size, and type. Coordinate with Fire Protection, Mechanical, Plumbing, and Electrical work to show actual locations of items to be accessed. Do not submit copies of Contract Documents.
   1. Minimum Drawing Scale: 1/8 inch = 1 foot.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

A. Fire-Rated Access Doors and Frames: Units complying with NFPA 80 that are identical to access door and frame assemblies tested for fire-test-response characteristics according to the following test method and that are listed and labeled by UL or another testing and inspecting agency acceptable to authorities having jurisdiction:
   1. NFPA 252 or UL 10B for fire-rated access door assemblies installed vertically.
   2. NFPA 288 for fire-rated access door assemblies installed horizontally.

2.2 ACCESS DOORS AND FRAMES FOR WALLS AND CEILINGS

A. Source Limitations: Obtain each type of access door and frame from single source from single manufacturer.

B. Doors with Exposed Flanges:
   1. Assembly Description: Fabricate door to fit flush to frame. Provide manufacturer's standard-width exposed flange, proportional to door size.
   2. Locations: CMU walls.
   3. Door Size: As required.
   4. Uncoated Steel Sheet for Door: Nominal 0.060 inch (1.52 mm), 16 gage
      a. Finish: Factory prime.
   5. Frame Material: Same material, thickness, and finish as door.
   6. Hinges: Manufacturer's standard.
   7. Hardware: Latch

C. Flush Access Doors with Concealed Flanges:
   1. Assembly Description: Fabricate door to fit flush to frame. Provide frame with gypsum board beads for concealed flange installation.
   2. Door Size: As required.
   3. Uncoated Steel Sheet for Door: Nominal 0.060 inch (1.52 mm), 16 gage.
      a. Finish: Factory prime.
      b. Locations: Gypsum board walls and ceilings unless otherwise indicated.
   4. Stainless-Steel Sheet for Door: Nominal 0.062 inch (1.59 mm), 16 gage.
      a. Finish: No. 4.
      b. Locations: Gypsum board walls and ceilings in wet areas.
   5. Frame Material: Same material and thickness as door.
   6. Hinges: Manufacturer's standard.
   7. Hardware: Latch.

D. Recessed Access Doors:
   1. Assembly Description: Fabricate door in the form of a pan recessed 5/8 inch (16 mm) for gypsum board infill. Provide frame with gypsum board bead for concealed flange installation.
   2. Locations: Gypsum board walls and ceilings.
   3. Door Size: As required.
   4. Uncoated Steel Sheet for Door: Nominal 0.060 inch (1.52 mm), 16 gage.
      a. Finish: Factory prime.
   5. Stainless-Steel Sheet for Door: Nominal 0.062 inch (1.59 mm), 16 gage.
      a. Finish: No. 4.
      b. Locations: At wet walls.
   6. Frame Material: Same material and thickness as door.
   7. Hinges: Manufacturer's standard.
   8. Hardware: Latch.

E. Hardware:
   1. Latch and lock: Cam latch operated by key.
   2. Latch: Cam latch operated by screwdriver.

2.3 FIRE-RATED ACCESS DOORS AND FRAMES

A. Fire-Rated, Flush Access Doors with Exposed Flanges:
   1. Assembly Description: Fabricate door to fit flush to frame, uninsulated. Provide self-latching door with automatic closer and interior latch release. Provide manufacturer's standard-width exposed flange, proportional to door size.
   2. Locations: Fire rated walls and ceilings.
   3. Fire-Resistance Rating: Not less than that of adjacent construction.
   4. Uncoated Steel Sheet for Door: Nominal 0.060 inch (1.52 mm), 16 gage
      a. Finish: Factory prime.

   5. Frame Material: Same material, thickness, and finish as door.
   6. Hinges: Manufacturer's standard.
   7. Latch and Lock: Self-closing, self-latching door hardware, operated by knurled-knob, with interior release.

B. Fire-Rated, Flush Access Doors with Concealed Flanges:
   1. Assembly Description: Fabricate door to fit flush to frame, uninsulated. Provide self-latching door with automatic closer and interior latch release. Provide manufacturer's standard-width exposed flange, proportional to door size.
   2. Locations: Wall and ceiling.
   3. Fire-Resistance Rating: Not less than that of adjacent construction.
   4. Uncoated Steel Sheet for Door: Nominal 0.060 inch (1.52 mm), 16 gage
      a. Finish: Factory prime.

   5. Frame Material: Same material, thickness, and finish as door.
   6. Hinges: Manufacturer's standard.
   7. Latch and Lock: Self-closing, self-latching door hardware, operated by knurled-knob, with interior release.

C. Hardware:
   1. Latch and lock: Cam latch operated by key.
   2. Latch: Cam latch operated by screwdriver.

2.4 MATERIALS

A. Steel Plates, Shapes, and Bars: ASTM A 36/A 36M.

B. 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.

C. Stainless-Steel Sheet, Strip, Plate, and Flat Bars: ASTM A 666, Type 304. Remove tool and die marks and stretch lines or blend into finish.

D. Frame Anchors: Same type as door face.

E. Inserts, Bolts, and Anchor Fasteners: Hot-dip galvanized steel according to ASTM A 153/A 153M or ASTM F 2329.

2.5 FABRICATION

A. General: Provide access door and frame assemblies manufactured as integral units ready for installation.

B. 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.

C. Doors and Frames: Grind exposed welds smooth and flush with adjacent surfaces. Furnish attachment devices and fasteners of type required to secure access doors to types of supports indicated.
   1. For concealed flanges with drywall bead, provide edge trim for gypsum board and gypsum base securely attached to perimeter of frames.
   2. Provide mounting holes in frames for attachment of units to metal or wood framing.
   3. Provide mounting holes in frame for attachment of masonry anchors.

D. Recessed Access Doors: Form face of panel to provide recess for application of applied finish. Reinforce panel as required to prevent buckling.
   1. For recessed doors with plaster infill, provide self-furring expanded-metal lath attached to door panel.

E. Latch and Lock Hardware:
   1. Quantity: Furnish number of latches and locks required to hold doors tightly closed.
   2. Keys: Furnish two keys per lock and key all locks alike.
   3. For recessed panel doors, provide access sleeves for each locking device. Furnish plastic grommets and install in holes cut through finish.

2.6 FINISHES

A. Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes.

B. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.

C. Appearance of Finished Work: Noticeable variations in same piece are not acceptable. Variations in appearance of adjoining components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.

D. Steel and Metallic-Coated-Steel Finishes:
   1. Factory Prime: Apply manufacturer's standard, fast-curing, lead- and chromate-free, universal primer immediately after surface preparation and pretreatment.

E. Stainless-Steel Finishes:
   1. Surface Preparation: Remove tool and die marks and stretch lines, or blend into finish.
   2. Polished Finishes: Grind and polish surfaces to produce uniform finish, free of cross scratches.
      a. Run grain of directional finishes with long dimension of each piece.
      b. When polishing is completed, passivate and rinse surfaces. Remove embedded foreign matter and leave surfaces chemically clean.
      c. Directional Satin Finish: No. 4.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.

B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

A. Comply with manufacturer's written instructions for installing access doors and frames.

B. Install doors flush with adjacent finish surfaces or recessed to receive finish material.

3.3 ADJUSTING

A. Adjust doors and hardware, after installation, for proper operation.

B. Remove and replace doors and frames that are warped, bowed, or otherwise damaged.

END OF SECTION