

SECTION 08 31 13.53 - ACCESS DOORS AND FRAMES

PART 1 - GENERAL

I.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.

I.2 SUMMARY

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

I.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.

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. **Basis-of-Design Product:** Subject to compliance with requirements, provide product indicated or comparable product by one of the following:
1. JL Industries, Inc.; a division of the Activar Construction Products Group.
- B. **Source Limitations:** Obtain each type of access door and frame from single source from single manufacturer.
- C. **Exterior Flush Access Doors.:**
1. **Basis-of-Design Product:** Babcock-Davis Stainless Steel Flush Access Doors..
 2. **Assembly Description:** Fabricate door to be weatherproof and fit flush to frame. Provide manufacturer's standard **2-inch-(50-mm-)**thick fiberglass insulation and extruded door gaskets. Provide manufacturer's standard-width frame for surface mounting, proportional to door size.
 3. **Locations:** Wall.
 4. **Door Size:** As indicated..
 5. **Stainless-Steel Sheet for Door:** Nominal **0.062 inch (1.59 mm)**, 16 gage.
 - a. **Finish:** No. 2b.
 6. **Frame Material:** Same material, thickness, and finish as door.
 7. **Hinges:** Manufacturer's standard.
 8. **Hardware:** Lock.
- D. **Medium-Security Flush Access Doors.:**
1. **Basis-of-Design Product:** Babcock-Davis, Medium Security.
 2. **Assembly Description:** Fabricate door to fit flush to frame. Provide manufacturer's concealed flange, proportional to door size.
 3. **Locations:** Wall and ceiling.
 4. **Door Size:** As indicated.
 5. **Uncoated Steel Sheet for Door:** Nominal **0.105 inch (2.66 mm)**, 12 gage.
 - a. **Finish:** Factory prime.
 6. **Frame Material:** Minimum **3/16-by-1-1/2-by-1-1/2-inch (4.7-by-38-by-38-mm)** angle welded with joints ground smooth; factory prime.
 7. **Hinges:** Manufacturer's standard security hinge.
 8. **Hardware:** Tamper-resistant latch.
- E. **Fire-Rated, Flush Access Doors with Concealed Flanges.:**
1. **Basis-of-Design Product:** Bobcock-Davis; Fire-Rated Access Doors.
 2. **Assembly Description:** Fabricate door to fit flush to frame, with a core of mineral-fiber insulation enclosed in sheet metal. Provide self-latching door with automatic closer and interior latch release. Provide frame with gypsum board beads for concealed flange installation.
 3. **Locations:** Wall and ceiling.
 4. **Fire-Resistance Rating:** Not less than that of adjacent construction.
 5. **Temperature-Rise Rating:** **450 deg F (250 deg C)** at the end of 30 minutes.
 6. **Uncoated Steel Sheet for Door:** Nominal **0.036 inch (0.91 mm)**, 20 gage.
 - a. **Finish:** Factory prime.

7. Frame Material: Same material, thickness, and finish as door.
8. Hinges: Manufacturer's standard.
9. Hardware: Latch, tamper resistant.

F. Hardware:

1. Latch: Self-latching bolt operated by pinned-hex-head wrench with interior release.
2. Lock: Mortise cylinder.

2.3 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.

2.4 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 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. Latching Mechanisms: Furnish number required to hold doors in flush, smooth plane when closed.
 1. For cylinder locks, furnish two keys per lock and key all locks alike.
 2. For recessed panel doors, provide access sleeves for each locking device. Furnish plastic grommets and install in holes cut through finish.

2.5 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. Bright, Cold-Rolled, Unpolished Finish: No. 2B.
- F. Exposed Access Panel Finishes:
 - 1. At the discretion of the Architect, exposed access panels are to be powder-coated to color selected by Architect from manufacturer's full range.

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 08 31 13.53