

SECTION 08 31 13  
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:
  - 1. Section 06 10 00 - Carpentry
  - 2. Section 09 29 00 - Gypsum Drywall
  - 3. Section 09 51 13 - Acoustical Ceiling Panel

1.3 SUBMITTALS

- A. Comply with Section 01 33 00 "Submittal Procedures".
- B. Product Data: For each type of product submit manufacturer's product data, including installation instructions.
  - 1. Include construction details, fire ratings, materials, individual components and profiles, and finishes.
- C. Test Reports: Submit test reports or approvals from UL, Warnock Hersey for fire-rated access doors.

1.4 DELIVERY, STORAGE, AND HANDLING

- A. Delivery: Deliver materials to site in manufacturer's original, unopened containers and packaging, with labels clearly identifying product name and manufacturer.
- B. Storage: Store materials indoors in a clean, dry area in accordance with manufacturer's instructions.
- C. Handling: Protect materials and finishes from damage during handling and 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. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
- B. Basis-of-Design Product: Subject to compliance with requirements, provide product indicated or comparable product by one of the following:
  - 1. Acudor Products, Inc.
  - 2. Babcock-Davis.
  - 3. J. L. Industries, Inc.; Div. of Activar Construction Products Group.
  - 4. Karp Associates, Inc.
  - 5. Larsen's Manufacturing Company.
  - 6. Milcor Inc.
  - 7. Nystrom, Inc.
  - 8. Williams Bros. Corporation of America (The).
  - 9. Maxam Metal Products Limited
  - 10. MIFAB, Inc.
- C. Source Limitations: Obtain each type of access door and frame from single source from single manufacturer.
- D. Fire-Rated Access Doors:
  - 1. Basis-of-Design Product: WB RF DW 820 Series Standard for Drywall.
  - 2. UL Listed: 1 1/2 hour, "B" Label, 450 degrees F (250 degrees C) maximum temperature rise in 30 minutes, for vertical wall installations. Test file number R-10364.
  - 3. Warnock Hersey Listed: 1 hour rating for combustible floor/ceiling assemblies. Test file number WHI-495-PSH-0191. 3 hour rating for non-combustible floor/ceiling assemblies. Test file number WHI-495-PSH-0192. 2 hour fire-rated wall assembly.
  - 4. Door: 18 gauge steel.

5. Frame: 16 gauge steel. 2 1/2 inches deep, with 1 inch wide perforated flange of 24 gauge satin coated galvanized steel for mounting.
6. Insulation: 2 inches thick mineral wool (THERMAFIBER), contained within door cavity.
7. Hinge: Fully-concealed pivot-rod type hinge allows opening to 140 degrees.
8. Latches: Self-latching direct action latch, accepts both key and knurled knob.
9. Automatic panel closer.
10. Inside panel release.
11. Finish: Electrostatically-applied grey enamel coat over rust-inhibiting phosphate treated steel.
12. Hot smoke seal gasketing for 4 sides.

E. Non-Rated Access Doors:

1. Basis-of-Design Product: WB-DW 400 Series for Drywall Access Door.
2. Return Frame: 16 gauge steel. Perforated flange 1 inch wide of 24 gauge satin coated galvanized steel for mounting.
3. Hinges: Fully-concealed. Opens 170 degrees. On long side of door. Number of hinges varies with size of door.
4. Latches: Flush, stainless steel cam-operated with screwdriver. Positioned opposite hinge and at top and bottom on larger sizes.
5. Finish: Electrostatically-applied, baked grey enamel coat over rust-inhibiting phosphate treated steel.
6. Screws: Tamper-proof.

F. Access Doors for Acoustical Tile:

1. Basis-of-Design Product: WB-AT 600 Series for Acoustical Tile Access Door.
2. Frame: 16 gauge steel.
3. Hinge: Full-length semi-concealed piano hinge. Opens 180 degrees. On long side of door.
4. Latches: Flush, stainless steel cam-operated with screwdriver. Positioned opposite hinge and at top and bottom on larger sizes.
5. Finish: Baked white enamel coat over rust-inhibiting phosphate treated steel.

G. Security Access Doors:

1. Basis-of-Design Product: WB HG SEC 1100 Series High Security Access Door.
2. Door: 10 gauge steel.
3. Frame: 2 inch x 2 inch x 3/16 inch angle.
4. Hinges: Heavy-duty detention butt hinges welded to surround and door. Opens 180 degrees. Minimum of 2 hinges per door. Maximum of 4 hinges per door for larger doors.

5. Anchors: Heavy steel, welded to frame.
6. Lock: Prepped for detention lock.
7. Finish: Electrostatically-applied, baked grey enamel coat over rust-inhibiting phosphate treated steel.

## 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. Metallic-Coated Steel Sheet: ASTM A 653/A 653M, Commercial Steel (CS), Type B; with minimum G60 or A60 metallic coating.
- D. Aluminum Extrusions: ASTM B 221, Alloy 6063-T6.
- E. Aluminum-Alloy Rolled Tread Plate: ASTM B 632/B 632M, Alloy 6061-T6.
- F. Frame Anchors: Same type as door face.
- G. 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 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. 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.

## 2.5 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.
  - 2. Factory Finish: Immediately after cleaning and pretreating, apply manufacturer's standard two-coat, baked-on finish consisting of prime coat and thermosetting topcoat, with a minimum dry-film thickness of 1 mil for topcoat.

## 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.
- C. Install access doors plumb, level, square, rigid, without warp or rack.
- D. Provide proper support for frames.
- E. Anchor frames securely in place.
- F. Use manufacturer's supplied hardware.
- G. Replace defective or damaged doors or other components as directed by Architect.

### 3.3 ADJUSTING

- A. Adjust doors and hardware, after installation, for proper operation without binding.

- B. Inspect and adjust locks to operate properly.
- C. Touch-up marred finished with manufacturer supplied paint.
- D. Remove and replace doors and frames that are warped, bowed, or otherwise damaged.

#### 3.4 CLEANING

- A. Clean surfaces in accordance with manufacturer's instructions.
- B. Do not use abrasive cleaners.

#### 3.5 PROTECTION

- A. Protect access doors and finish from damage during construction.

END OF SECTION 08 31 13