

SECTION 083100 - ACCESS DOORS AND PANELS

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Wall- and ceiling-mounted access units.

1.2 RELATED REQUIREMENTS

- A. Section 092116 - Gypsum Board Assemblies
- B. Section 093000 - Tiling

1.3 REFERENCE STANDARDS

- A. ASTM A1008/A1008M - Standard Specification for Steel, Sheet, Cold-Rolled, Carbon, Structural, High-Strength Low-Alloy, High-Strength Low-Alloy with Improved Formability, Required Hardness, Solution Hardened, and Bake Hardenable.
- B. NFPA 80 - Standard for Fire Doors and Other Opening Protectives.
- C. UL (FRD) - Fire Resistance Directory.

1.4 SUBMITTALS

- A. See Section 013000 - Administrative Requirements for submittal procedures.
- B. Product Data: Provide sizes, types, finishes, hardware, scheduled locations, and details of adjoining work.
- C. Shop Drawings: Indicate exact position of each access door and/or panel unit.
- D. Project Record Documents: Record actual locations of each access unit.

1.5 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum three years experience.
- B. Installer Qualifications: Company specializing in performing work of the type specified and with at least three years experience.

PART 2 PRODUCTS

2.1 ACCESS DOORS AND PANELS ASSEMBLIES

- A. Wall-Mounted Units:
 - 1. Location: As indicated on drawings.

2. Panel Material: Steel, hot-dipped zinc or zinc-aluminum-alloy coated.
3. Size: 24 by 24 inches unless indicated otherwise on drawings, but in no case smaller than 12 by 12 inches.
4. Door/Panel: Hinged, standard duty, with tool-operated spring or cam lock and no handle.
5. Wall Mounting Criteria: Provide surface-mounted face frame and door surface flush with frame surface.
6. Gypsum Board Mounting Criteria: Provide drywall bead frame with door surface flush with wall surface.
7. Masonry Mounting Criteria: Provide surface-mounted frame with door surface flush with frame surface.

B. Wall-Mounted Units in Wet Areas:

1. Location: As indicated on drawings.
2. Panel Material: Stainless steel, Type 304.
3. Size: 24 by 24 inches unless indicated otherwise on drawings, but in no case smaller than 12 by 12 inches.
4. Door/Panel: Hinged, standard duty, with tool-operated spring or cam lock and no handle.
5. Wall Mounting Criteria: Provide surface-mounted face frame and door surface flush with frame surface.
6. Tile Wall Mounting Criteria: Provide surface-mounted face frame and door surface flush with frame surface.
7. Gypsum Board Mounting Criteria: Provide drywall bead frame with door surface flush with wall surface.

C. Fire-Rated Wall-Mounted Units:

1. Location: As indicated on drawings.
2. Wall Fire-Rating: As indicated on drawings.
3. Panel Material: Steel, hot-dipped zinc, or zinc-aluminum-alloy coated.
4. Size: 24 by 24 inches unless indicated otherwise on drawings, but in no case smaller than 12 by 12 inches.
5. Door/Panel: Insulated double-surface panel, with tool-operated spring or cam lock and no handle.

D. Ceiling-Mounted Units:

1. Panel Material: Steel, hot-dipped zinc, or zinc-aluminum-alloy coated.
2. Size - Lay-In Grid Ceilings: To match module of ceiling grid.
3. Size - Other Ceilings: 12 by 12 inches unless indicated otherwise on drawings, but in no case smaller than 12 by 12 inches.
4. Door/Panel: Hinged, standard duty, with tool-operated spring or cam lock and no handle.

E. Fire-Rated Ceiling-Mounted Units:

1. Location: As indicated on drawings.
2. Ceiling Fire-Rating: As indicated on drawings.
3. Panel Material: Steel, hot-dipped zinc, or zinc-aluminum-alloy coated.
4. Size: 12 by 12 inches unless indicated otherwise on drawings, but in no case smaller than 12 by 12 inches.

2.2 WALL- AND CEILING-MOUNTED ACCESS UNITS

A. Manufacturers:

1. Activar Construction Products Group, Inc. - JL Industries: www.activarepg.com.
 2. Babcock-Davis: www.babcockdavis.com.
 3. Best Access Doors: www.bestaccessdoors.com.
- B. Wall- and Ceiling-Mounted Units: Factory-fabricated door and frame, fully assembled units with corner joints welded, filled and ground flush; square and without rack or warp; coordinate requirements with type of installation assembly being used for each unit.
1. Style: Exposed frame with door surface flush with frame surface.
 - a. Gypsum Board Mounting Criteria: Use drywall bead type frame.
 2. Door Style: Single thickness with rolled or turned in edges.
 3. Heavy-Duty Frames: 14-gauge, 0.0747-inch minimum thickness.
 4. Heavy-Duty Single Steel Sheet Door Panels: 14-gauge, 0.0747-inch minimum thickness.
 5. Double-Skinned Hollow Steel Sheet Door Panels: 14-gauge, 0.0747-inch minimum thickness, on both sides and along each edge.
 6. Units in Fire-Rated Assemblies: Fire rating as required by applicable code for fire-rated assembly that access doors are being installed.
 - a. Provide products listed by UL (FRD) as suitable for purpose indicated.
 - b. Provide certificate of compliance from authorities having jurisdiction indicating approval of fire rated doors.
 7. Hardware:
 - a. Hardware for Fire-Rated Units: As required for listing.
 - b. Hinges for Non-Fire-Rated Units: Concealed, constant force closure spring type.
 - c. Latch/Lock: Cylinder lock-operated cam latch, two keys for each unit.
 - d. Number of Locks/Latches Required: As recommended by manufacturer for size of unit.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify that rough openings are correctly sized and located.
- B. Begin installation only after substrates have been properly prepared, and if the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.2 PREPARATION

- A. Clean surfaces thoroughly prior to proceeding with this work.
- B. Prepare surfaces using methods recommended by manufacturer for applicable substrates in accordance with project conditions.

3.3 INSTALLATION

- A. Install units in accordance with manufacturer's instructions.
- B. Install frames plumb and level in openings, and secure units rigidly in place.
- C. Position units to provide convenient access to concealed equipment when necessary.

- D. Set fire-rated access doors at locations and elevations indicated and in accord with NFPA 80.
- E. Field paint access doors and panels in accord with requirements of 099123 - Interior Painting. Color shall match adjacent surfaces.

3.4 TESTING

- A. Test and adjust hardware for ease of operation.

3.5 PROTECTION

- A. Protect surfaces from damage or staining. Clean surfaces prior to Date of Substantial Completion.

END OF SECTION 083100