

SECTION 08 31 00 - ACCESS DOORS

PART 1 - GENERAL

1.01 SUMMARY

- A. Work Included: Provide products in accordance with the Contract Documents. All access panels and doors for mechanical, ventilation, plumbing and electrical work to be furnished by respective trade contractors and installed this contract. The Contract Documents are as defined in the "Agreement". The "General Conditions Governing All Contracts" shall apply to all work under the Contract. The Work of this Section shall include but not be limited to the following:
 - 1. Wall and ceiling access doors.
 - 2. Fire-rated wall and ceiling access doors.
- B. Related Sections
 - 1. Section 04 20 00 - Unit Masonry.
 - 2. Section 08 71 00 - Door Hardware.
 - 3. Section 09 21 00 - Gypsum Drywall Systems.
 - 4. Section 09 30 00 - Tile.
 - 5. Section 09 90 00 - Painting.
 - 6. Division 23 - Mechanical.

1.02 SUBMITTALS

- A. Product data for each type of access door assembly specified, including details of construction relative to materials, individual components, profiles, finishes, and fire-protection ratings (if required).
 - 1. Include complete schedule, including types, general locations, sizes, wall and ceiling construction details, latching or locking provisions, and other data pertinent to installation.
- B. Shop Drawings showing fabrication and installation of access doors and frames, including details of each frame type, elevations of door design types, anchorage, and accessory items.
- C. Samples, 3-inch by 5-inch minimum size, of each panel face material showing factory-finished color and texture.

1.03 QUALITY ASSURANCE

- A. Single-Source Responsibility: Obtain access doors for entire Project from one source and by a single manufacturer.
- B. Fire-Rated Door Assemblies: Units that comply with NFPA 80, are identical to door and frame assemblies tested for fire-test-response characteristics per test method as indicated below, and are labeled and listed by UL, Warnock Hersey, or another testing and inspecting agency acceptable to authorities having jurisdiction.
 - 1. Test Method for Vertical Installations: ASTM E 152.
 - 2. Test Method for Horizontal Installations: ASTM E 119.

- C. Size Variations: Obtain Architects acceptance of manufacturer's standard size units, which may vary slightly from sizes indicated.

1.04 COORDINATION

- A. Verification: Determine specific locations and sizes for access doors needed to gain access to concealed equipment, and indicate on schedule specified under "Submittals" Article.
 - 1. Coordinate installation of access doors to minimize the need for other trades to cut or remove work.
 - 2. Where possible access panels shall be concealed from view. Coordinate locations and install as directed by Resident Engineer.

1.05 DEFINITIONS

- A. General: Where access doors are to be provided in wet locations, note, wet locations are any area that has running water, including but not limited to toilet rooms, mechanical rooms and chases.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

- A. Available Manufacturers: Subject to compliance with requirements, provide products as manufactured by one of the following, or approved equal:
 - 1. J.L. Industries.
 - 2. Karp Associates, Inc.
 - 3. Larsen's Manufacturing Co.
 - 4. Bilco.
 - 5. Hallman.
 - 6. Or Approved Equal.

2.02 MATERIALS

- A. Steel Sheet: ASTM A 366/A 366M commercial-quality, cold-rolled steel sheet with baked-on, rust-inhibitive primer.
- B. Stainless-Steel Sheet: At wet locations provide, ASTM A 167, Type 304 with No. 4 finish according to ASTM A 480/A 480M.
- C. Aluminum Extrusions: ASTM B 221, 6063-T6.
- D. Plate and Steel: ASTM B 209, 6061-T6.

2.03 ACCESS DOORS

- A. Noninsulated, Fire-Rated Doors for Walls: Self-latching units consisting of frame, concealed trim, door, and hardware, including automatic closer, interior latch release, and complying with the following requirements:

1. Frame: 0.0598-inch thick steel sheet.
2. Frame for Wet Areas: 0.0625-inch thick stainless-steel sheet.
3. Door: 0.0598-inch thick steel sheet.
4. Door for Wet Areas: 0.0625-inch- thick stainless-steel sheet.
5. Hinge: Continuous type / Concealed
6. Latches: Bolt type, operated by ring turn device.
7. Fire-Protection Rating for Walls: 1-1/2 hours.

- B. Trimless, Flush Access Doors for Gypsum Board: Units consisting of frame, concealed edge trim, door, hardware, and complying with the following requirements:

1. Frame: 0.0598-inch thick steel sheet.
2. Frame for Wet Locations: 0.0625-inch- thick stainless-steel sheet.
3. Door: 0.0747 inch thick steel sheet.
4. Door for Wet Locations: 0.0781 inch thick stainless-steel sheet.
5. Concealed, Gypsum Board Edge Trim: 0.0299 inch zinc-coated or galvanized-steel sheet with face flange formed to receive joint compound.
6. Hinge: Concealed spring pin or continuous type.
7. Locks: Flush, screwdriver-operated cam.

- C. Recessed Doors where indicated: Units consisting of frame with no exposed trim, recessed door to receive tile, hardware, and complying with the following requirements:

1. Frame: 0.0897 inch thick steel sheet.
2. Door: 0.0598 inch thick steel sheet, recessed 1 inch.
3. Frame for Wet Locations: 0.0625 inch thick stainless-steel sheet.
4. Door for Wet Locations: 0.0781 inch thick stainless-steel sheet.
5. Hinge: Concealed, pivoting-rod type.
6. Locks: Flush, screwdriver-operated cam.

2.04 FABRICATION

- A. General: Manufacture each access door assembly as an integral unit ready for installation.
- B. Steel Access Doors and Frames: Continuous welded construction. Grind welds smooth and flush with adjacent surfaces. Furnish attachment devices and fasteners of type required to secure access panels to types of supports indicated.
 - 1. Exposed Flange: Nominal 1 to 1-1/2 inches (25.4 to 38.1 mm) wide around perimeter of frame.
 - 2. For gypsum board assemblies or gypsum veneer plaster, furnish frames with edge trim for gypsum board or gypsum base.
 - 3. For installation in masonry construction, furnish frames with adjustable metal masonry anchors.
- C. Recessed Panel Doors: Form face of panel to provide recess for application of applied finish. Reinforce panel as required to prevent buckling.
- D. Locking Devices: Furnish number required to hold door in flush, smooth plane when closed.
 - 1. For recessed panel doors, provide access sleeves for each locking device. Furnish plastic grommets and install in holes cut through finish.
- E. Finish: Provide units factory primed for finish painting unless otherwise indicated.
 - 1. Provide directional satin finish for stainless steel units or as selected by Architect.

PART 3 - EXECUTION

3.01 PREPARATION

- A. Advise Installers of other work about specific requirements relating to access door installation, including sizes of openings to receive access door and frame, as well as locations of supports, inserts, and anchoring devices. Furnish inserts and anchoring devices for access doors that must be built into other construction. Coordinate delivery with other work to avoid delay.

3.02 INSTALLATION

- A. Comply with manufacturer's instructions for installing access doors.
- B. Set frames accurately in position and attach securely to supports with plane of face panels aligned with adjacent finished surfaces.
- C. Install concealed-frame access doors flush with adjacent finish surfaces.

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Academic Restrooms Renovation Project
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3.03 ADJUST AND CLEAN

- A. Adjust hardware and panels after installation for proper operation.
- B. Remove and replace panels or frames that are warped, bowed, or otherwise damaged.

END OF SECTION