

SECTION 08311

ACCESS DOORS AND FRAMES

PART 1 - GENERAL

1.1 SUMMARY

- A. This Section includes the following types of access doors, unless specified elsewhere:
 - 1. Wall access doors.
 - 2. Fire-rated wall access doors.
 - 3. Ceiling access doors.
 - 4. Fire-rated ceiling access doors.

1.2 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. Schedule: Submit schedule of access doors with locations and sizes required.

1.3 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 Architect's acceptance of manufacturer's standard size units, which may vary slightly from sizes indicated.

1.4 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.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated in the Work include, but are not limited to, the following:
1. J.L. Industries.
 2. Karp Associates, Inc.
 3. Larsen's Manufacturing Co.
 4. Milcor, Inc.
 5. Nystrom, Inc.
 6. The Williams Bros. Corporation of America.

2.2 MATERIALS

- A. Steel Sheet: ASTM A 366 (ASTM A 366M) commercial-quality, cold-rolled steel sheet with baked-on, rust-inhibitive primer.

2.3 ACCESS DOORS

- A. Insulated, Fire-Rated Access Doors: Self-latching units consisting of frame, trim, door, insulation, and hardware, including automatic closer, interior latch release, and complying with the following requirements:
1. Frame with Exposed Trim: Perimeter frame with integral exposed trim complying with the following requirements:
 - a. Metal: 0.0598-inch- (1.52-mm-) thick steel sheet.
 - b. Trim: 1-inch (25.4-mm) flange overlapping surfaces surrounding door frame.
 2. Door: 0.0359-inch- (0.91-mm-) thick steel sheet, welded pan type.
 3. Hinges: Continuous type.
 4. Latches: Bolt type, operated by either a ring turn or flush key device (keyed alike).
 5. Insulation: 2-inch- (50.8-mm-) thick mineral-fiber insulation.
 6. Fire-Protection Rating for Walls: 1-1/2 hours.
 7. Fire-Protection Rating for Ceilings: 1 hour for wood-framed walls and other combustible wall assemblies.
- B. Flush Access Doors with Exposed Trim: Units consisting of frame with exposed trim, door, hardware, and complying with the following requirements:
1. Frame: 0.0598-inch- (1.52-mm-) thick steel sheet.
 2. Door: 0.0747-inch- (1.90-mm-) thick steel sheet.
 3. Trim: Flange integral with frame, 3/4 inch (19 mm) wide, overlapping surrounding finished surface.
 4. Hinge: Continuous type.
 5. Locks: Key-operated cylinder lock.

2.4 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.
- C. Locking Devices: Furnish number required to hold door in flush, smooth plane when closed.
 - 1. For cylinder lock, furnish 2 keys per lock and key all locks alike.

PART 3 - EXECUTION

3.1 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.
- B. Provide access doors where required to access valves, controls, electrical equipment, and other items requiring access, above non-accessible ceilings and behind walls.

3.2 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.

3.3 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.

3.4 SCHEDULE

- A. Ceilings and Walls: 12 by 12 inch door, unless noted otherwise, fire rated where required.

END OF SECTION