

**SECTION 08 31 13
ACCESS DOORS AND FRAMES**

SPEC WRITER NOTES:

1. Use this section only for NCA projects.
2. Delete between //___ // if not applicable to project. Also delete any other item or paragraph not applicable in the section and renumber the paragraphs.

PART 1 - GENERAL

1.1 DESCRIPTION

- A. Section specifies access doors or panels.

1.2 RELATED WORK

- A. Lock Cylinders: Section 08 71 00, DOOR HARDWARE.
- B. Access doors in acoustical ceilings: Section 09 51 00, ACOUSTICAL CEILINGS.
- C. Locations of access doors for duct work cleanouts: Section 23 31 00, HVAC DUCTS AND CASINGS // Section 23 37 00, AIR OUTLETS AND INLETS.

1.3 SUBMITTALS

- A. Submit in accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.
- B. Shop Drawings: Indicate each type of access door, showing construction, location and installation details.
- C. Manufacturer's Literature and Data: Access doors, each type.

1.4 APPLICABLE PUBLICATIONS

- A. Publications listed below form a part of this specification to extent referenced. Publications are referenced in text by the basic designation only. Comply with applicable provisions and recommendations of the following, except as otherwise shown or specified.

SPEC WRITER NOTES:

1. Remove reference citations that do not remain in Part 2 or Part 3 of edited specification.
2. Verify and make dates indicated for remaining citations the most current at date of submittal; determine changes from date indicated on the TIL download of the section and modify requirements impacted by the changes.

- B. American Welding Society (AWS):

D1.3/D1.3M (2008) Structural Welding Code Sheet Steel

- C. The National Association of Architectural Metal Manufacturers (NAAMM):

AMP 500 Series Metal Finishes Manual

- D. National Fire Protection Association (NFPA):
 80-13 Fire Doors and Windows
- E. Underwriters Laboratories, Inc. (UL):
 Fire Resistance Directory

SPEC WRITER NOTES:

1. Use stainless steel access doors or panels in wet areas or ceramic tile surfaces.
2. Use painted doors in other areas.

PART 2 - PRODUCTS

2.1 FABRICATION, GENERAL

- A. Fabricate components to be straight, square, flat and in same plane where required.
1. Slightly round exposed edges and without burrs, snags and sharp edges.
 2. Make exposed welds continuous and ground smooth.
 3. Weld in accordance with AWS D1.3.
- B. Provide number of locks and non-continuous hinges as required to maintain alignment of panel with frame. // For fire rated doors, use hinges and locks as required by fire test. //
- C. Provide anchors or make provisions in frame for anchoring to adjacent construction. Provide size, number and location of anchors on four sides to secure access door in opening. // Provide anchors as required by fire test. //

2.2 ACCESS DOORS, FIRE RATED

- A. Meet requirements for "B" label 1-1/2 hours with maximum temperature rise of 120 degree C (250 degrees F).
- B. Comply with NFPA 80 and have Underwriters Laboratories Inc., or other nationally recognized laboratory label for Class B opening.
- C. Door Panel: Form of minimum 0.9 mm (0.0359 inch) thick // steel // stainless steel // sheet, insulated sandwich type construction.
- D. Frame: Form of minimum 1.5 mm (0.0598 inch) thick steel sheet of depth and configuration to suit material and type of construction where installed. Provide frame flange at perimeter where installed in concrete masonry or gypsum board openings.
1. Weld exposed joints in flange and grind smooth.
 2. Provide frame flange at perimeter where installed in concrete masonry or gypsum board.

//3. Provide expanded galvanized metal lath perimeter wings when installed in plaster except veneer plaster. //

E. Automatic Closing Device: Provide automatic closing device for door.

F. Hinge: Continuous steel hinge with stainless steel pin.

G. Lock:

1. Self-latching, with provision for fitting flush a standard screw-in type lock cylinder. Lock cylinder specified in Section 08 71 00, DOOR HARDWARE.

2. Provide latch release device operable from inside of door. Mortise case in door.

2.3 ACCESS DOORS, FLUSH PANEL

A. Door Panel:

1. Form of minimum // 1.9 mm (0.0747 inch) thick steel // 1.5 mm (0.0598 inch) thick stainless steel // sheet.

2. Reinforce to maintain flat surface.

B. Frame:

1. Form of minimum 1.5 mm (0.0598 inch) thick // steel // stainless steel // sheet of depth and configuration to suit material and type of construction where installed.

2. Provide surface mounted units having frame flange at perimeter where installed in concrete, masonry, or gypsum board construction.

3. Weld exposed joints in flange and grind smooth.

//4. Provide expanded galvanized metal lath perimeter wings when installed in plaster except veneer plaster. //

C. Hinge:

1. Concealed spring hinge to allow panel to open 175 degrees.

2. Provide removable hinge pin to allow removal of panel from frame.

D. Lock:

1. Self-latching device with cylinder lock; match facility keying system.

SPEC WRITER NOTES:

1. Use for adhesive applied acoustical tile or special plaster within door recess.

2. Do not use for gypsum board or veneer plaster.

2.4 ACCESS DOOR, RECESSED PANEL

A. Door Panel:

1. Form of minimum 1.2 mm (0.0478 inch) thick // steel // stainless steel // sheet to form a 25 mm (one inch) deep recessed pan to

- accommodate the installation of acoustical units // acoustical plaster // or other materials where shown in walls and ceiling.
2. Reinforce as required to prevent sagging.
- B. Frame:
1. Form of minimum 1.5 mm (0.0598 inch) thick steel sheet of depth and configuration to suit installation in suspension system of ceiling or wall framing.
 2. Extend sides of frame to protect edge of acoustical units when panel is in open position.
 3. Provide shims, bushings, clips and other devices necessary for installation.
- C. Hinge: Continuous steel hinge with stainless steel pin or concealed hinge.
- D. Lock:
1. Self-latching device with cylinder lock; match facility keying system.
 2. Provide sleeve of plastic or stainless steel grommet to protect hole made in acoustical unit for screwdriver access to lock.

2.5 FINISH

- A. Provide in accordance with NAAMM AMP 500 series on exposed surfaces.
- B. Steel Surfaces: Baked-on prime coat over a protective phosphate coating.
- C. Stainless Steel: No. 4 for exposed surfaces.

2.6 SIZE

- A. Provide minimum 600 mm (24 inches) square door unless otherwise shown // or required to suit opening in suspension system of ceiling. //

PART 3 - EXECUTION

3.1 LOCATION

- A. Provide access panels or doors wherever any valves, traps, dampers, cleanouts, and other control items of mechanical, electrical and conveyor work are concealed in wall or partition, or are above ceiling of gypsum board or plaster.
- B. Use fire rated doors in fire rated partitions and ceilings.
- C. Use flush panels in partitions and gypsum board or plaster ceilings, except lay-in acoustical panel ceilings or upward access acoustical tile ceilings.

SPEC WRITER NOTES:

1. List space or rooms where recessed panel access doors are used. Use only where finish is to be continuous.

D. Use recessed panel access doors in the following rooms // or spaces //.

3.2 INSTALLATION, GENERAL

- A. Install access doors in openings to have sides vertical in wall installations, and parallel to ceiling suspension grid or side walls when installed in ceiling.
- B. Set frames so that edge of frames without flanges will finish flush with surrounding finish surfaces.
- C. Set frames with flanges to overlap opening and so that face will be uniformly spaced from the finish surface.
- D. Set recessed panel access doors recessed so that face of surrounding materials will finish on the same plane, when finish in door is installed.

3.3 ANCHORAGE

- A. Secure frames to adjacent construction using anchors attached to frames or by use of bolts or screws through the frame members.
- B. Provide type, size and number of anchoring devices suitable for the material surrounding the opening, maintain alignment, and resist displacement during normal use of access door.
- C. Anchors for fire rated access doors must meet requirements of applicable fire test.

3.4 ADJUSTMENT

- A. Adjust hardware so that door panel will open freely.
- B. Adjust door when closed so door panel is centered in the frame.

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