SECTION 08 31 13

ACCESS DOORS AND FRAMES

PART 1 - GENERAL

1.01 DESCRIPTION

A. This Section describes the requirements for furnishing and installing access doors at all required locations.

B. Related Sections:

1. Non-structural metal framing is specified in Section 09 22 16.

2. Metal suspension systems are specified in Section 09 22 26.23.

3. Gypsum board is specified in Section 09 29 00.

4. Gypsum board shaft wall assemblies are specified in Section 09 21 16.23.

5. Fire suppression work is specified in Division 21.

6. Plumbing work is specified in Division 22.

7. Heating, ventilating and air conditioning work is specified in Division 23.

8. Electrical work is specified in Division 26.

1.02 SUBMITTALS

A. Product Data: Manufacturer's technical data and installation instructions for each type of access door assembly, including setting drawings, templates, instructions and directions for installation of anchorage devices. Include complete schedule including types, general locations, sizes, wall and ceiling construction details, finishes, latching or locking provisions and other data pertinent to installation.

B. Location Drawing: Show proposed location of every required access door with dimensions in plan and elevation. Verify locations with the County's Representative. Access doors shall be located within walls and ceilings for access including but not limited to the following: automatic valves, automatic dampers, air terminal units, and fire/smoke dampers. Show location of adjacent materials, trim pieces, and hardware required to complete the work. Do not begin installation until location is approved. Submit access door locations superimposed on piping layout and duct layout shop drawings.

1.03 QUALITY ASSURANCE

A. Fire-Rated Door Assemblies: Units shall comply with NFPA 80, be identical to door and frame assemblies tested for fire-test-response characteristics, and are labeled and listed by UL, Warnock Hersey, or other testing and inspecting agency acceptable to authorities having jurisdiction.

1.04 COORDINATION

A. Furnish inserts and anchoring devices required to be built into other work. Coordinate delivery to avoid delay.

1.05 PRODUCT DELIVERY, STORAGE, AND HANDLING

A. Deliver and store access doors in manufacturer's standard protective packaging.

B. Do not remove protective packaging until ready for installation.

C. Follow manufacturer's instructions for storage and handling.

PART 2 - PRODUCTS

2.01 APPROVED MANUFACTURERS

A. J.L. Industries, Karp Associates, Milcor, Nystrom Building Products or approved equal.

2.02 MATERIALS AND FABRICATION

A. Furnish access doors of proper size for access to concealed equipment. Minimum size shall be 12-inch x 12-inch for hand access and minimum 18-inch x 18-inch for valve and actuator access and 24-inch x 24-inch for equipment access.

B. Non-Fire-Rated Access Doors with Exposed Trim in Non-Public Areas:

1. Door Design: Flush panel.

2. Material: Commercial grade cold-rolled steel with 16-gauge frame and 14-gauge door.

3. Finish: Phosphate dipped with baked-on rust-inhibitive gray primer for field painting as specified in Section 09 91 00.

4. Exposed Trim: 1-inch flange overlapping surfaces surrounding door frame.

5. Hinge: Concealed pin hinge mechanism and continuous piano hinge.

6. Latch/Lock: Flush screwdriver operated stainless steel cam latch. Provide keyed locks at access doors located in public areas.

C. Non-Fire-Rated Access Doors with Exposed Trim in Toilet Rooms, Custodial Rooms, and other Wet Areas:

1. Door Design: Flush panel.

2. Material: Stainless steel, 16-gauge frame and 14-gauge door.

3. Finish: Satin polish finish.

4. Exposed Trim: Flange integral with frame, 1-inch wide, overlapping surrounding finished surface.

5. Hinge: Concealed pin hinge mechanism and continuous piano hinge.

6. Latch/Lock: Flush screwdriver operated stainless steel cam latch. Provide keyed locks at access doors located in public areas.

7. Provide insulated doors in insulated or acoustically rated construction.

D. Non-Fire-Rated Recessed Access Doors in Public Areas:

1. Door Design: Recessed to receive gypsum wallboard.

2. Material: Cold Rolled sheet steel, 16-gauge, recessed 5/8-inch.

3. Frame: 16-gauge cold rolled sheet steel with 22-gauge galvanized perimeter drywall bead.

4. Hinge: Concealed pivoting rod.

5. Lock: Key operated cylinder lock with two keys per lock, keyed alike.

6. Finish: Phosphate dipped with baked-on rust inhibiting primer for field painting as specified in Section 09 91 00.

7. Provide insulated doors in insulated or acoustically rated construction.

E. UL Fire-Rated Access Doors with Exposed Trim in Non-Public Areas:

1. Door Design: Flush panel.

2. Material: Commercial grade cold-rolled steel with 16-gauge frame and 20-gauge door.

3. Finish: Phosphate dipped with baked-on rust inhibiting primer for field painting as specified in Section 09 91 00.

4. Insulation: 2-inch thick fire-rated insulation sandwiched between two pieces of 20-gauge steel.

5. Exposed Trim: Flange integral with frame, 1-inch wide, overlapping surrounding finished surface.

6. Hinge: Concealed pin hinge.

7. Continuous Closer: Automatic spring closer to automatically close and latch door.

8. Latch/Lock: Ball bearing cylinder lock operated by a recessed flush key lock. Panels shall have interior latch release mechanism allowing the door to be unlocked from the inside.

F. UL Fire-Rated Access Doors with Exposed Trim at Toilet Rooms, Custodial Rooms, and Other Wet Areas:

1. Door Design: Flush panel.

2. Material: Stainless steel, 16-gauge frame and 20-gauge door.

3. Finish: Satin polish finish.

4. Insulation: 2-inch thick fire-rated insulation sandwiched between two pieces of 20-gauge steel.

5. Exposed Trim: Flange integral with frame, ¾-inch wide, overlapping surrounding finished surface.

6. Hinge: Concealed pin hinge.

7. Continuous Closer: Automatic spring closer to automatically close and latch door.

8. Latch/Lock: Ball bearing cylinder lock operated by a recessed flush key lock. Panels shall have interior latch release mechanism allowing the door to be unlocked from the inside.

G. UL Fire-Rated Recessed Access Doors in Public Areas:

1. Door Design: Recessed to receive gypsum wallboard or other finish material.

2. Material: Cold Rolled sheet steel, 16-gauge, recessed 5/8-inch.

3. Frame: 16-gauge cold rolled sheet steel with 22-gauge galvanized perimeter drywall bead.

4. Hinge: Concealed pivoting rod.

5. Continuous Closer: Automatic spring closer to automatically close and latch door.

6. Latch/Lock: Ball bearing cylinder lock operated by a recessed flush key lock. Panels shall have interior latch release mechanism allowing the door to be unlocked from the inside.

7. Finish: Phosphate dipped with baked-on rust inhibiting primer for field painting as specified in Section 09 91 00.

PART 3 - EXECUTION

3.01 INSTALLATION

A. Install access doors in accordance with manufacturer's instructions.

B. Coordinate installation with work of other Sections.

C. Set frames accurately in position and securely attach to supports with face panels plumb and level in relation to adjacent finish.

D. Frames, doors and trim pieces shall not vary from straightness or snug contact fit by more than 1/16-inch.

E. Provide color-coded dots on access doors with exposed trim in non-public spaces to indicate type of service.

F. Coordinate location of access doors in hung ceilings, furred spaces and walls to provide access to concealed work items requiring maintenance and/or adjustment. Obtain approval of the County's Representative for the locations of such access doors.

G. Locate and group equipment requiring access doors. Coordinate location of equipment with other trades to minimize number of access doors in one area.

H. Provide access doors for maintenance or adjustment purposes for mechanical system components, including but not limited to the following:

1. Valves.

2. Dampers.

3. Concealed equipment.

3.02 ADJUST AND CLEAN

A. Adjust hardware and panels after installation for proper operation.

B. Remove and replace panels and frames that are warped, bowed, dented, or otherwise damaged.

END OF SECTION