SECTION 083113 - ACCESS DOORS AND FRAMES

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes access doors and frames.

1.2 COORDINATION

A. Verification: Obtain specific locations and sizes for required access doors from trades requiring access to concealed equipment, and where shown on the drawings, and indicate on schedule specified in "Submittals" Article.

1.3 ACTION SUBMITTALS

A. Product Data: Submit product data for each type of access door and frame indicated. Include construction details relative to materials, individual components and profiles, finishes, and fire ratings (if required) for access doors and frames.

1.4 INFORMATIONAL SUBMITTALS

A. Coordination Drawings: Reflected ceiling plans drawn to scale and coordinating penetrations and ceiling-mounted items with concealed framing, suspension systems, piping, ductwork, and other construction. Show the following:

1. Method of attaching door frames to surrounding construction.
2. Ceiling-mounted items including access doors and frames, lighting fixtures, diffusers, grilles, speakers, sprinklers, and special trim.

B. Schedule: Provide complete door and frame schedule, including types, general locations, sizes, construction details, latching or locking provisions, and other data pertinent to installation.

1.5 QUALITY ASSURANCE

A. Single-Source Responsibility: Obtain access doors of each type for entire project from one source from a single manufacturer.

B. Fire-Rated Access Doors and Frames: Units complying with NFPA 80 and that are labeled and listed by UL, ITS, or another testing and inspecting agency acceptable to authorities having jurisdiction per test method indicated.

1. Vertical Access Doors: NFPA 252 or UL 10B.

C. Size and Location Verification: Determine specific locations and sizes for access doors needed to gain access to concealed equipment, and indicate on schedule.

PART 2 - PRODUCTS

2.1 METALS

A. Metal Surfaces, General: Provide materials with smooth, flat surfaces unless otherwise indicated. For metal fabrications exposed to view in the completed Work, provide materials without seam marks, roller marks, rolled trade names, or blemishes.

B. Recycled Content of Steel Products: Postconsumer recycled content plus one-half of preconsumer recycled content not less than 25 percent.

2.2 ACCESS DOORS AND FRAMES

A. Flush, Insulated, Fire-Rated Access Doors and Trimless Frames (AD##): Fabricated from steel sheet.

1. Locations: Gypsum board wall surfaces indicated to be fire rated.
2. Fire-Resistance Rating: One and one-half hours.
3. Temperature Rise Rating: 250 deg F at the end of 30 minutes.
4. Door: Flush panel with a core of mineral-fiber insulation enclosed in sheet metal.
5. Frame: Sheet metal with drywall bead.
6. Hinges: Continuous piano hinge.
7. Automatic Closer: Spring type.
8. Latch: Self-latching bolt operated by knurled knob with interior release.
9. Products: One of the following:

    a. Acudor Products, Inc.; FW-5050-DW Fire Rated for Drywall - Insulated.
    b. Larsen's Industries, Inc.; L-FRAP.
    c. Milcor; Style UFR-DW.
    d. Nystrom, Inc.; IW Series.

B. Flush Access Typical Doors and Trimless Frames for Vertical Surfaces (AD##): Fabricated from steel sheet.

1. Locations: Gypsum board wall surfaces.
2. Door: Minimum 14 gauge 0.067 inch thick sheet metal, set flush with surrounding finish surfaces.
3. Frame: Minimum 16 gauge 0.053 inch thick sheet metal with drywall bead.
4. Hinges: Continuous concealed type.
5. Latch: Flush, screwdriver- operated cam latch of number required to hold door in flush, smooth plane when closed.
6. Products: One of the following:

    a. Acudor Products, Inc.; DW-5040 Flush for Drywall.
    b. Larsen's Industries, Inc.; Model L-DWC.
    c. Milcor; Style DW.
    d. Nystrom, Inc.; NW Series.

C. Flush Access Typical Doors and Trimless Frames for Horizontal Surfaces (AD##): Fabricated from glass fiber reinforced gypsum.

1. Locations: Gypsum board ceiling surfaces.
2. Door: Minimum 1/8 inch thick glass fiber reinforced gypsum, with radiused corners, set flush with surrounding gypsum wallboard finish surfaces.
3. Frame: Minimum 1/8 inch thick glass fiber reinforced gypsum, with tapered square edge.
4. Hinges and Latch: None, lay-in manual push up type.
5. Product:

    a. Acudor Products, Inc.; GFRG Recessed Access Door for Drywall Ceilings.
    b. Chicago Metallic Ceiling Systems and Specialty Products: Glass Reinforced Gypsum Drywall Ceiling Access Doors.
    c. Formglas, Inc.: Interior Ceiling Access Panel.
    d. IntexForms Inc.; Lift & Shift Access Panel Radius Door Corners.
    e. Wind-Lock; Stealth Access Panels.

D. Flush Access Typical Doors and Trimless Frames for Horizontal Surfaces: Fabricated from glass fiber reinforced gypsum.

1. Locations: Gypsum board ceiling surfaces.
2. Door: Minimum 1/8 inch thick glass fiber reinforced gypsum, with square corners, set flush with surrounding gypsum wallboard finish surfaces.
3. Frame: Minimum 1/8 inch thick glass fiber reinforced gypsum, with tapered square edge.
4. Hinges and Latch: None, lay-in manual push up type.
5. Products: One of the following:

    a. Acudor Products, Inc.: GFRG-S Ceiling Access Panel.
    b. IntexForms, Inc.: Lift & Shift Access Panel Square Door Corners.
    c. UP Ceilings: Square Corner, Lift and Shift Panels.

E. Flush Access Doors and Frames with Exposed Trim (AD##): Fabricated from steel sheet.

1. Locations: Ceramic-tile wall surfaces.
2. Door: Minimum 14 gauge thick sheet metal, set flush with exposed face flange of frame.
3. Frame: Minimum 16 gauge thick sheet metal with 1-inch- wide, surface-mounted trim.
4. Hinges: Continuous piano hinge.
5. Latch: Flush, screwdriver-operated cam latch of number required to hold door in flush, smooth plane when closed.
6. Products: One of the following:

    a. Acudor Products, Inc.; UF-5000 Universal Flush Access Door.
    b. Larsen's Industries, Inc.; Model L-MPG.
    c. Milcor; Style M.
    d. Nystrom, Inc.; NT Series.

2.3 FABRICATION

A. General: Provide access door assemblies manufactured as integral units ready for installation.

B. Steel Access Doors: Fabricate units of continuous welded steel construction. Grind exposed 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. Provide special sized access doors where required or requested.

C. Glass Fiber Reinforced Gypsum Doors: Fabricate units of monolithic glass fiber reinforced gypsum construction having a shell thickness of between 1/8 to 3/16 inch and weighing approximately 2 pounds per square foot. Edges of doors shall be rabbetted to overlap and rest on the frame.

1. Provide special sized access doors where required or requested.

D. Frames:

1. Exposed Flanges: Nominal 1 to 1-1/2 inches wide around perimeter of frame for steel frames.
2. Provide trimless carbon steel frames with drywall bead for installation in gypsum wallboard assembly, furnish perforated frames with drywall bead, securely attached to perimeter of frames, in size to suit thickness of gypsum panels indicated. Provide mounting holes in frames to attach frames to metal framing in drywall construction.
3. Provide trimless glass fiber reinforced frames with tapered edges for taping and joint compound installation into gypsum wallboard ceiling assembly, in size to suit thickness of gypsum panels used.

2.4 CARBON STEEL FINISHES

A. Surface Preparation: Prepare uncoated ferrous-metal surfaces to comply with SSPC-SP 3, "Power Tool Cleaning."

B. Apply shop primer to uncoated surfaces of metal fabrications. Comply with SSPC-PA 1, "Paint Application Specification No. 1," for shop painting.

PART 3 - EXECUTION

3.1 INSTALLATION

A. Comply with manufacturer's instructions for installation of access doors. Coordinate installation with work of other trades.

B. 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.

C. Set frames accurately in position and attach securely to supports with plane of face panels aligned with adjacent finish surfaces.

D. Install access doors flush with adjacent finish surfaces or recessed to receive finish material.

E. Adjust doors and hardware after installation for proper operation.

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

END OF SECTION