

**PART 1 GENERAL**

**1.1 ACTION AND INFORMATIONAL SUBMITTALS**

- .1 Submit in accordance with Division 01: Submittal Procedures.
- .2 Product Data:
  - .1 Submit manufacturer's instructions, printed product literature and data sheets for access door components and include product characteristics, performance criteria, physical size, finish and limitations.
- .3 Shop Drawings:
  - .1 Submit drawings stamped and signed by professional engineer registered or licensed in Province of Nova Scotia, Canada.
  - .2 Submit catalogue details for each type of door illustrating profiles, dimensions and methods of assembly.
- .4 Samples:
  - .1 Submit for review and acceptance of each unit.
  - .2 Samples will be returned for inclusion into work.
  - .3 Submit 1 of each type of hand entry access door.
  - .4 Submit one 300 x 300 mm corner sample of each type of body entry door.

**1.2 CLOSEOUT SUBMITTALS**

- .1 Submit in accordance with Division 01: Closeout Submittals.
- .2 Operation and Maintenance Data: submit operation and maintenance data for cleaning and maintenance of finishes for incorporation into manual.

**1.3 DELIVERY, STORAGE AND HANDLING**

- .1 Deliver, store and handle materials in accordance with Division 01: Common Product Requirements and with manufacturer's written instructions.
- .2 Delivery and Acceptance Requirements: deliver materials to site in original factory packaging, labelled with manufacturer's name and address.
- .3 Storage and Handling Requirements:
- .4 Store materials indoors in dry location and in accordance with manufacturer's recommendations in clean, dry, well-ventilated area.
- .5 Store and protect access doors from damage and nicks, scratches, and blemishes.

**PART 2 PRODUCTS**

**2.1 ACCESS DOORS**

- .1 Rated and non-rated flush access doors:
  - .1 Door: Fabricate from 14-gauge (1.9 mm) cold rolled sheet steel, with multiple mounting configurations.

- .2 Frame: Fabricate from 16-gauge (1.5 mm) cold rolled sheet steel. Provide ¼-inch (6 mm) mounting holes and easy install tabs.
- .3 All surfaces – 1-inch (25 mm) flange at perimeter.
- .4 Wallboard surfaces - drywall bead at perimeter.
- .5 Hinge options:
  - .1 Concealed pin type, spring loaded to allow for door removal.
  - .2 Pin type, spring loaded to allow for door removal.
- .6 Latching/Locking Devices: Key operated cylinder cam lock with two keys per lock, keyed alike.
- .2 Opening Sizes: except as indicated otherwise, to be minimum sizes as follows:
  - .1 For body entry: 610 x 610 mm.
  - .2 For hand entry: 305 x 305 mm.
- .3 Construction: Rounded safety corners, concealed hinges, screwdriver latch, and anchor straps, able to open 180°.
- .4 Finishes:
  - .1 Tiled surfaces and other special areas: stainless steel with brushed satin or polished finish as directed by Departmental Representative.
  - .2 Other areas: prime-coated galvanized steel.

## 2.2 FLOOR ACCESS DOORS

- .1 Materials:
  - .1 Stainless Steel Diamond Tread Plate: ASTM A793 stainless steel, No. 304 finish.
  - .2 Stainless Steel Angle: ASTM A276 stainless steel, No. 304 finish.
  - .3 Fasteners: Type No. 316 stainless steel. ASTM F593 for bolts and ASTM F594 for nuts.
  - .4 General: Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes.
- .2 Flush Type 304 Stainless Steel Doors and Frames:
  - .1 Opening Size: 914 mm x 914 mm.
  - .2 Door: 3/16" (5 mm) reinforced stainless steel diamond plate.
  - .3 Frame: 3/16" (5 mm) steel 2" x 3" (50 mm x 745 mm) stainless steel angle frame with holes for bolt in applications
  - .4 Finish: mill finish stainless steel.
  - .5 Latch: Type 316 stainless steel slam latch with inside lever handle and outside removable "L" handle
  - .6 Hinge: 3 inch by 3-inch (75 mm x 75 mm) type 316 stainless steel, heavy-duty butt hinge with stainless steel pin fastened to door with stainless steel carriage bolts. Provide hinges with slotted bolt holes for on-site adjustment.
  - .7 Springs: Type 316 stainless steel compression lift springs designed to counterbalance door weight and resist downward pressure when closing door.

- .8 Hold-Open Arm: 3/8 inch type 316 stainless steel arm that automatically locks when door is opened to 90 degrees. Provide release handle with red vinyl grip that releases door and allows for closure.
- .9 Mortise cylinder lock, protected by brass cover plate for keyed access interior and exterior. Manufacturer's standard Best Cylinder with plastic core. Panic bar hardware for emergency egress.
- .10 Gasket Odor Resistant; certified for a maximum air infiltration of 1 cubic foot per minute per linear foot of perimeter.
- .11 Gasket Debris; 1/8" commercial grade EPDM rubber.

### **2.3 FABRICATION**

- .1 Manufacture each access panel and door assembly as an integral unit ready for installation.
- .2 Framing to include integral anti-flexing technology, with 1/4 inch (6 mm) mounting holes, to reduce the twist of frame during installation.
- .3 Easy Install Tabs integral to framing for multiple installation methods.
- .4 Furnish number of latches required to hold door in flush, smooth plane when closed.

## **PART 3 EXECUTION**

### **3.1 EXAMINATION**

- .1 Verify that rough openings for door and frame are correctly sized and located.
- .2 Verify mechanical and electrical requirements for ceiling or wall access panels.

### **3.2 MECHANICAL ACCESS DOOR LOCATION**

- .1 Mechanical access door locations: ensure that equipment is within view and accessible for operating, inspecting, adjusting, servicing without use of special tools.

### **3.3 PREPARATION**

- .1 Advise installers of work relating to access panel installation including rough opening dimensions, locations of supports, and anchoring methods. Coordinate delivery with other work to avoid delay.
- .2 Advise and coordinate with other trades as required of details relating to floor hatch installation, including rough opening dimensions, locations of supports, and anchoring methods.

### **3.4 INSTALLATION**

- .1 Install access door and frame units per manufacturer's printed installation instructions, standard details, and data sheets.
- .2 Install frames plumb and level in opening, in proper alignment with adjacent planes for flush installation. Secure rigidly in place.
- .3 Position units to provide convenient access to concealed Work requiring access.
- .4 For floor doors, install so hinges are not located at ladder access side.

**3.5 ADJUSTING**

- .1 Adjust panels and doors after installation for smooth operation.
- .2 Remove and replace panels or frames that are warped, bowed, or damaged.

**3.1 CLEANING**

- .1 Progress Cleaning: clean in accordance with Division 01: Cleaning. Leave Work area clean at end of each day.
- .2 Final Cleaning: upon completion remove surplus materials, rubbish, tools and equipment in accordance with Division 01: Cleaning. Perform cleaning after installation to remove construction and accumulated environmental dirt.
- .3 Manage and dispose of demolition and construction waste materials in accordance with Division 01: Construction/Demolition Waste Management and Disposal.

**3.2 PROTECTION**

- .1 Protect installed products and components from damage during construction.
- .2 Repair damage to adjacent materials caused by Work of this Section.

**3.3 SCHEDULE**

- .1 Consult Drawings and locate where access through wall is required and/or shown. Exact locations determined by Departmental Representative.

**END OF SECTION**