**3-Part CSI MasterFormat Specification**

**SECTION 08 3483**

**Floor DOORs AND FRAMES**

1. GENERAL
	* + 1. SUMMARY
				1. Section includes:

Floor Doors for access between building floors as indicated on drawings and specified herein

* + - 1. references
				1. Aluminum Diamond Tread Plate: ASTM B632-02, 1/4 inch 6061-T6 aluminum with mill finish.
				2. Aluminum Extrusion: 6061-T6 aluminum.
				3. Steel Diamond Tread Plate: ASTM A786.
				4. Steel Angle: ASTM A36-94 steel frame, structural.
				5. Hot Dip Galvanized: ASTM A-123.
				6. Stainless Steel Diamond Tread Plate: ASTM A793 stainless steel, No. 304 finish.
				7. Stainless Steel Angle: ASTM A276 stainless steel, Type 304 finish.
				8. Stainless Steel Smooth Plate: ASTM A240 smooth plate stainless steel, Type 316.
				9. Fasteners: Type 316 stainless steel. ASTM F593 for bolts and ASTM F594 for nuts.
				10. General: Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes.
			2. SUBMITTALS
				1. Shop Drawings: Indicate configuration and dimensions, show components, adjacent construction, required clearances and tolerance and other affected work.
				2. Product Data: Manufacturer’s technical data for each type of floor door, including setting drawings and finish requirements
				3. Manufacturer's Installation Instructions and Operation & Maintenance: Indicate installation, operation and maintenance requirements and rough-in dimensions.
			3. Quality Assurance
				1. Qualifications:

Manufacturer/Installer: Company specializing in manufacturing and installation of components specified in this Section with minimum of 5 years documented experience.

* + - * 1. Regulatory Requirements:

International Building Code for fire resistance rated construction

IBC Section 712 for Floor Fire Doors- tested in accordance with NFPA 288 and labeled by approved agency; Warnock Hersey or Underwriters Laboratory.

* + - 1. DELIVERY, STORAGE, and HANDLING
				1. Deliver materials to Project site ready use.
				2. Exercise proper care in handling of Work so as not to disrupt finished surfaces.
				3. Store materials under cover in a dry and clean location off the ground.
			2. WARRANTY
				1. Provide manufacturer's standard warranty. Floor doors shall be free from manufacturing defects in materials and fabrication for a period of 5 years from the date of shipment. Should a product fail to function in normal use within this period, manufacturer shall furnish a replacement or new part at Nystrom’s discretion
1. PRODUCTS
	* + 1. MANUFACTURER
				1. Nystrom

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Minneapolis, MN 55428

PH: 800-547-2635

www.Nystrom.com

* + - 1. ALUMINUM FLOOR DOORS
				1. Gutter Channel Frame Aluminum Floor Door: Drainable Floor door for use in exterior applications or where water penetration is a concern. Model FDD

Clear Unobstructed Opening Size: <**Insert dimensions**>.

Frame: Mill finish aluminum, gutter profile, with 1-1/2 inch (38.1 mm) drainage coupling and integral EPDM gasket.

 **[Frame with continuous 1 inch anchor flange for cast-in-place installation] [Frame with continuous flange and 2 inch by** 2 inch **welded mounting tabs with 3/8 inch holes for bolt-in installation]**

Door: [**Single**] [**Double**] leaf; 1/4-inch-thick (6.4-mm-thick), diamond-pattern **[Mill] [Clear Anodized] [Clear Lacquer] [SlipNOT®]** finish aluminum plate.

Manufacturers' offerings for loading capacity vary; confirm availability. See the Evaluations for discussion of AASHTO H20.

Loading Capacity**: [300-lbf/sq. ft. (14.4-kN/sq. m) pedestrian live load with a maximum deflection of 1/150; Model FDDPA]**

Hardware:

1. Material: Type 316 stainless steel, including latch, hold-open arms, brackets, hinges, pins, and fasteners.
2. Hinges: Heavy-duty butt hinges with stainless-steel pins.
3. Operating Mechanism: Adjustable, enclosed stainless-steel counterbalancing spring, heavy-duty hold-open arm that automatically locks door open at 90 degrees, release handle with red vinyl grip that allows for one-handed closure.
4. Latch: Stainless-steel slam latch with inside lever handle and outside removable handle.

Revise "Lock" Subparagraph below for other options available; common types are listed.

1. Optional Lock: **[Padlock hasp and staple] [Recessed padlock hasp with cover] [Mortise Cam w/6-Pin IC Core and Key] [Mortise Cam w/ Plastic Core] [Mortise Prep slam latch] [Mortise deadbolt with thumb turn access from above] [Mortise deadbolt with thumb turn access from below] [Detention Lock Prep, 7016 Style] [Detention 7016 Installed] [Detention Lock Prep, 1080 Style] <Insert lock type>.**
	* + - 1. Safety Grating System: The fall protection grating shall be constructed of 6 inch by 1-1/2 inch safety orange, powder coated, serrated, aluminum panels and shall have a 6 inch (152 mm) view area on at least one lateral unhinged side for visual observation. Grating shall have 316 SST hinges and positive latching in both open and closed positions. Grating shall include padlock hasp for owner supplied lock which is capable of locking in both open and closed positions and shall not impede clear opening. Grating shall be designed for 300 psf loading and shall include two aluminum nut rails.
				2. Safety Accessories: Safety **[chains] [net] [railing] [telescoping safety post]** <Insert safety device>.
2. EXECUTION
	* + 1. EXAMINATION
				1. Verify that preparation and affected dimensions are acceptable.
				2. Verify tolerances and correct improper conditions.
			2. PREPARATION
				1. Advise installers of details relating to floor hatch installation, including rough opening dimensions, locations of supports, and anchoring methods.
			3. INSTALLATION
				1. Follow manufacturer’s instructions for installing floor doors and hatches.
				2. Install frames plumb and level in opening, in proper alignment with floor surface for flush installation. Secure rigidly in place.
				3. Position units to provide convenient access to concealed Work requiring access.
			4. ADJUSTING
				1. Operational Units: Test-operate units with operable components.
				2. Clean and lubricate joints and hardware.
				3. Adjust for proper operation.
			5. CLEANing
				1. Clean adjacent surfaces and remove unused product and debris from site.
				2. Adjust doors for smooth operation.

END OF SECTION

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