**3-Part CSI MasterFormat Specification**

**SECTION 12 4816**

**Entrance Flooring Grilles and Frames**

Rev 06/23

1. GENERAL
	* + 1. SUMMARY
				1. Section includes recessed floor grilles and frames
			2. Related Requirements
				1. Section 124813 "Entrance Floor Mats and Frames" for flexible floor mats and frames
				2. Division 03 - Cast-In-Place Concrete: For concrete floor slab recess, and grouting frames into recess.
				3. Division 07 - Damp-proofing.
				4. Section 124813 "Entrance Floor Mats and Frames" for flexible floor mats and frames
				5. Division 23 - Sanitary Waste and Vent Piping: For floor drain if applicable.
			3. REFERENCES
				1. ASTM A-276 Standard Specification for Stainless and Heat-Resisting Steel Bars and Shapes.
				2. ASTM B-221-88 Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes
				3. Comply with applicable provisions in **[the DOJ's "2010 ADA Standards for Accessible Design"] [and] [ICC A117.1]** <Insert regulation>.
			4. COORDINATION
				1. Coordinate size and location of recesses in concrete to receive floor grilles and frames.
			5. ACTION 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. Samples: For the following products, in manufacturer's standard sizes
				4. Floor Grille: Assembled section of floor grille.
				5. Frame Members: Sample of each type and color
			6. INFORMATIONAL SUBMITTALS
				1. Provide manufacturer's standard warranty
				2. Sustainable Design Submittals:

Building Product Disclosure Requirements: To encourage the use of building products that are working to minimize their environmental and health impacts, provide the following information when available:

Material Ingredients Documentation demonstrating the chemical inventory of the product

* + - 1. CLOSEOUT SUBMITTALS
				1. Manufacturer's Installation Instructions and Operation & Maintenance: Indicate installation, operation and maintenance requirements and rough-in dimensions.
			2. MAINTENANCE MATERIAL SUBMITTALS
				1. Furnish extra materials that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
1. PRODUCTS
	* + 1. MANUFACTURER
				1. Nystrom

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* + - * 1. Rigid Floor Grille: Stainless-steel tread wires 0.090-inch (2.3-mm) by 0.150-inch (3.8-mm), spaced 0.235-inch (6 mm) on-center **[0.375-inches (9.5 mm) high with 0.118-inch (3-mm) support bars] [0.625-inches (15.9-mm****] high with 0.070-inch (1.8-mm) support bars] [1.125-inches (28.6-mm) high with 0.070-inch (1.8-mm) support bars]** Supports spaced 1-inch (25.4 mm) on-center. Tread wires shall be resistance welded at each joint

Basis-of-Design Product: Nystrom eleGRIL®

Rolling Load: 1000 lb (453 kg) per wheel.

Frames for 0.375-inch (9.5-mm) deep product.

Surface Mounted (SAM): Mechanically attached, aluminum frame.

Level Bed (LBM): Mechanically attached **[stainless-steel] [aluminum]** frame.

Level Bed (LBC): Cast-in-place **[stainless-steel] [aluminum]** frame.

Frames for 0.625-inch (15.9-mm) deep product.

Level Bed (LBM): Mechanically attached **[stainless-steel] [aluminum]** frame.

Level Bed (LBC): Cast-in-place **[stainless-steel] [aluminum]** frame.

Frames for 1.125-inch (28.6-mm) deep product.

Level Bed (LBM): Mechanically attached **[stainless-steel] [aluminum]** frame.

Level Bed (LBC): Cast-in-place **[stainless-steel] [aluminum]** frame.

Deep Pit, Adjustable (DAM): Mechanically attached stainless-steel frame, adjustable from 3-inch (76.2-mm) to 7-inch (177.8-mm) deep with 1/8-inch (3.2-mm) exposed surface.

Options:

Provide manufacturer's standard 0.060-inch (1.52-mm) thick**, [aluminum, mill finish] [aluminum, primer coat finish] [stainless-steel]** sheet drain pan. Coat bottom of pan with protective coating recommended by manufacturer.

1. EXECUTION
2. EXAMINATION
3. Products must be placed on a flat and level substrate. Substrate shall meet tolerance of 1/8" over 10 feet in accordance with ACI 302.
4. Examine areas and conditions under which Work is to be performed and identify conditions detrimental to proper or timely completion.
	* + 1. Do not proceed until unsatisfactory conditions have been corrected.
5. INSTALLATION
6. Install products in accordance with manufacturer’s instructions, at locations shown and with top of products level with adjoining finished flooring where applicable.
7. Coordinate top of product surfaces with swinging doors to provide under-door clearance.

1. Provide necessary shims, spacers, and anchorages for proper location and secure attachment of frames to concrete.

2. For installation in terrazzo flooring, contact manufacturer.

1. ADJUSTING AND CLEANING

A. Adjust top surface of assembly to be flush with adjacent finishes.

B. Coordinate top of surfaces with doors that swing across surface to provide adequate under door clearance.

C. Clean dirt and debris from frame recess before installing floor system.

1. PROTECTION
2. Upon completion of frame installations, provide temporary filler of plywood or fiberboard in grille recesses, and cover frames with plywood protective flooring. Maintain protection until construction traffic has ended and Project is near time of Substantial Completion.
3. Install product when no further wheeled construction traffic will occur and wet type operations including painting and decorating are complete.

END OF SECTION