**3-Part CSI MasterFormat Specification**

**SECTION 12 4816**

**ENTRANCE grilles AND FRAMES**

Rev 06/23

1. GENERAL
	* + 1. summary
				1. Section Includes
				2. Entrance Floor Mats and Frame Assemblies
			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. Division 23 – Sanitary Waste and Vent Piping: Floor 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. If product is to be recessed, coordinate with concrete work so that products are available for placing integrally with floor slabs.
			5. Action SUBMITTALS
				1. Product Data: Manufacturer’s product specifications, installation, and maintenance instructions.
				2. Shop Drawings: Show layout and types of grates and frames not less than half-scale sections of typical installations, details of patterns or designs, anchors, and accessories, and field measurements of slab recess to receive frames grates (if applicable).
				3. Samples for Selection Purposes: Actual sections of grate and frame material in a convenient but representative size showing full range of colors, textures, finishes and patterns available for each type of floor grate and frame specified.
				4. Samples for Verification Purposes: Not less than 6-inch square sections of grate material and 6-inch length of frame material in selected colors and finishes for each type of grate and frame specified.
				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 materials 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. MANUFACTURERS
				1. Babcock-Davis

9300 73rd Avenue North

Brooklyn Park, MN 55428

PH: 888.412.3726

FX: 888.312.3726

www.BabcockDavis.com

* + - * 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: Babcock-Davis.; eleGRIL®

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

Retain one of first three subparagraphs below.

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.

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

The cross-support mechanism for the deep pit is aluminum. Rolling-load capacity for this application is 300 lb (136 kg) per wheel.

c. 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
	* + 1. EXAMINATION
				1. 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.
				2. Examine areas and conditions under which Work is to be performed and identify conditions detrimental to proper or timely completion.

Do not proceed until unsatisfactory conditions have been corrected.

* + - 1. IINSTALLATION
				1. Install products in accordance with manufacturer’s instructions, at locations shown and with top of products level with adjoining finished flooring where applicable.
				2. Coordinate top of product surfaces with swinging doors to provide under-door clearance.

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

For installation in terrazzo flooring, contact manufacturer.

* + - 1. PROTECTION
				1. 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.
				2. Install product when no further wheeled construction traffic will occur and wet type operations including painting and decorating are complete

END OF SECTION