**3-Part CSI MasterFormat Specification**

**SECTION 12 4816**

**ENTRANCE grilles AND FRAMES**

Rev 07/21

1. GENERAL
	* + 1. summary
				1. Section Includes

Entrance Floor Mats and Frame Assemblies

* + - * 1. Related Requirements

Section 124813 “Entrance Floor Mats and Frames” for flexible floor mats and frames

Division 03 – Cast-In-Place Concrete: For concrete floor slab recess and grouting frames into recess

Division 07 – Damp-proofing.

Division 23 – Sanitary Waste and Vent Piping: Floor floor drain if applicable.

* + - 1. references
				1. ASTM B 221-93 Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Shapes, and Tubes
				2. ASTM A 276-92 Standard Specification for Stainless and Heat-Resisting Steel Bars and Shapes.
				3. AAMA 606.1 Voluntary Guide Specifications and Inspection Methods for Integral Color Anodic Finishes for Architectural Aluminum
				4. AAMA 607.1 Voluntary Guide Specifications and Inspection Methods for Clear Anodic Finishes for Architectural Aluminum.
				5. Accessibility Standard: Comply with applicable provisions in the DOJ's "2010 ADA Standards for Accessible Design" and ICC A117.1.
			2. Coordination
				1. If product is to be recessed, coordinate with concrete work so that products are available for placing integrally with floor slabs.
			3. Action SUBMITTALS
				1. Product Data: Manufacturers 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.
			4. informational submittals
				1. Provide manufacturer's standard warranty
			5. Sustainable Design Submittals:
				1. 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. Credit: Enhanced Indoor Air Quality Strategies
				2. Strategy 1. Entryway Systems Install permanent entryway systems at least 10 feet (3 meters) long in the primary direction of travel to capture dirt and particulates entering the building at regularly used exterior entrances. Acceptable entryway systems include permanently installed grates, grilles, slotted systems that allow for cleaning underneath, rollout mats, and any other materials manufactured as entryway systems with equivalent or better performance. Maintain all on a weekly basis.
			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

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* + - * 1. Rigid Floor Grille: Stainless-steel tread wires spaced 0.3275 inches (8.3 mm) on-center **by [1.125 inches (28.6 mm)] [0.75 inch (19.1 mm)]** high. 0.187-inch- (4.7-mm) by 0.375-inch- (9.5-mm-) profile wires mechanically interlocked with U-clip supports and spaced 0.187 inch (4.75 mm) apart.

Basis-of-Design Product: Babcock-Davis; proGRIL™

Stainless-steel rigid grill with 0.187-inch- (4.7-mm-) profile straight wire.

Treads: Straight wire treads with **[1-1/8-inch- (28.6-mm-)] [3/4-inch- (19.1-mm-)]** deep support rails.

Stainless-steel rigid grill with 0.187-inch- (4.0-mm-) profile curved wire.

Treads: Curved wire treads with **[1-1/8-inch- (28.6-mm)] [3/4-inch- (19.1-mm-)]** deep support rails.

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

* + - 1. DRAIN PANS
	1. Retain this article if drain pans are required floor-grille manufacturer for type of floor grille and frame indicated. Otherwise, consider specifying drain pans in Section 076200 "Sheet Metal Flashing and Trim."
		+ - 1. Provide manufacturer's standard [**0.060-inch- (1.52-mm-) thick**], [**aluminum, mill finish**] [**aluminum, primer coat finish**] [**stainless-steel**] sheet drain pan with NPS 2 (DN 50) drain outlet for each floor-grille unit. 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. INSTALLATION
				1. Adjust top surface of assembly to be flush with adjacent finishes.
				2. Coordinate top of surfaces with doors that swing across surface to provide adequate under door clearance.
				3. Clean dirt and debris from frame recess before installing floor system.
			2. 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