

3-PART CSI MASTERFORMAT SPECIFICATION
SECTION 12 4816
G-1532 – 15/32” BUFFED TIRE GRATING

PART 1 – GENERAL

1.1 SUMMARY

A. Section Includes

1. Section includes recessed floor grilles and frames

B. 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.

1.2 REFERENCES

- A. ASTM B 221-93 Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Shapes, and Tubes
- B. ASTM A 276-92 Standard Specification for Stainless and Heat-Resisting Steel Bars and Shapes.
- C. AAMA 606.1 Voluntary Guide Specifications and Inspection Methods for Integral Color Anodic Finishes for Architectural Aluminum
- D. AAMA 607.1 Voluntary Guide Specifications and Inspection Methods for Clear Anodic Finishes for Architectural Aluminum.

1.3 COORDINATION

- A. Coordinate size and location of recesses in concrete to receive floor grilles and frames.

1.4 SUBMITTALS

- A. Product Data: Manufacturers product specifications, installation and maintenance instructions.

B. Shop Drawings:

1. Items penetrating floor grilles and frames, including door control devices.
2. Divisions between grille sections.
3. Perimeter floor moldings.

C. Samples: For the following products, in manufacturer's standard sizes

1. Floor Grille: Assembled section of floor grille.
2. Frame Members: Sample of each type and color

D. LEED Submittals:

1. Product Data for Credit IEQ 5: Indoor Chemical and Pollutant Source Control: Employ permanent entryway systems at least 10 feet long in the primary direction of travel to capture dirt and particulates entering the building at regularly used exterior entrance.

1.5 CLOSEOUT SUBMITTALS

- A. Installation, Operations and Maintenance data.

1.6 FIELD CONDITIONS

- A. Field Measurements: Indicate measurements on Shop Drawings.

1.7 WARRANTY

- A. Provide manufacturer's written warranty.
B. Warrant materials and fabrication against defects after completion and final acceptance of Work.
C. Repair defects, or replace with new materials, faulty materials or fabrication developed during the warranty period at no expense to Owner.

PART 2 - PRODUCTS

2.1 Accessibility Standard:

- A. Comply with applicable provisions in [the DOJ's "2010 ADA Standards for Accessible Design"] [and] [ICC A117.1] <Insert regulation>.

2.2 ACCEPTABLE MANUFACTURERS

Amarco Products. 5 Powder Horn Dr. Warren, NJ 07059. Tel: 866-688-6287. Fax: 732-302-1120.

Website: www.amarcomats.com. Email: info@amarcomats.com

- A. Rigid Floor Grille: 100 percent recycled, nylon-reinforced, buffed-rubber tread strips, alternating with aluminum divider-bars, assembled, and galvanized steel wire, 1.5 inches (38.1 mm) on-center, **[0.6875 inches (17.5 mm)] [0.47 inches (11.9 mm)]** high.
1. Basis-of-Design Product: Amarco Products' G-1532 – 15/32" Buffed Tire Grating
 2. Rolling Load: 1000 lb (453 kg) per wheel.
 3. Tread Inserts: 100 percent recycled, nylon-reinforced buffed rubber with minimum 59 percent postconsumer and 22 percent preconsumer recycled content, mechanically secured to tread rails.
 - a. Model: Single tread insert, closed construction, **[15/32 inch (24 mm)] [11/16 inch (17.5 mm)]** overall depth.
 - b. Model: Double tread insert, closed construction, **[15/32 inch (24 mm)] [11/16 inch (17.5 mm)]** overall depth.
 4. Colors, Textures, and Patterns of Inserts: **[Black] [Gray]**.
 5. Rail Color: **[Mill finish] [Clear] [Light bronze] [Medium bronze] [Dark bronze] [Black]**.
 6. Frame:
 - a. Level Bed (LBM): Mechanically attached **[stainless-steel] [aluminum]** frame.
 - b. Level Bed (LBC): Cast-in-place **[stainless-steel] [aluminum]** frame.
 - c. Surface Mounted (SAM): Mechanically attached aluminum frame

2.3 DRAIN PANS

- A. 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.

PART 3 - EXECUTION

3.01 EXAMINATION

- A. 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.
- B. 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.

3.02 INSTALLATION

- A. Install products in accordance with manufacturer's instructions, at locations shown and with top of products level with adjoining finished flooring where applicable.
- B. 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.

3.03 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.

3.04 PROTECTION

- A. 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.
- B. Install product when no further wheeled construction traffic will occur and wet type operations including painting and decorating are complete.

END OF SECTION