

SECTION 124816 ENTRANCE FLOOR GRILLES

PART 1 - GENERAL

1.1 GENERAL REQUIREMENTS

- A. Work of this Section, as shown or specified, shall be in accordance with the requirements of the Contract Documents.

1.2 SECTION INCLUDES

- A. Work of this Section includes all labor, materials, equipment, and services necessary to complete the entrance floor grilles as shown on the drawings and specified herein.

1.3 RELATED SECTIONS

- A. Concrete recess - Section 033000.

1.4 QUALITY ASSURANCE

- A. Manufacturer: Except as otherwise indicated, provide entrance floor grilles and accessories by a single manufacturer for entire project.

1.5 SUBMITTALS

- A. Product Data: Submit manufacturer's specifications and installation instructions for entrance floor grilles. Include methods of installation for each type of substrate.
- B. Samples: Submit samples for each type and color of exposed entrance floor grille, frames and accessories required. Provide 12" square samples of grille including frame.
- C. Maintenance Data: Submit manufacturer's printed instructions for cleaning, drying, maintaining and rehandling of removable entrance floor grilles.

1.6 PRODUCT HANDLING

- A. Protection: Use all means necessary to protect the materials of this Section before, during, and after installation, and to protect the installed work and materials of all other trades.
- B. Replacements: In the event of damage, immediately make all repairs and replacements necessary.

PART 2 - PRODUCTS

2.1 ALUMINUM WALK-OFF GRILLE

- A. Manufacturer: Provide "G1 Pedigrid" recessed floor grid and frame assembly - Cradle 2 Cradle Silver certified extruded 6105-T5 aluminum alloy tread rails joined mechanically by extruded 6106-T6 aluminum alloy key lock bars as manufactured by Construction Specialties, Inc., Mats Inc or approved equal.
- B. Provide aluminum recessed grating with vinyl insert, 1-7/8" depth frame.

1. Edge Frame: ZF – Z Edge Frame
 2. Aluminum Finish: Clear anodized.
 3. Vinyl Abrasive Inserts: Color as selected by the Architect.
- C. Construction: Floor panels shall consist of precision spaced, mechanically interlocked profile wires and U-clip supports fabricated from extruded aluminum complying with ASTM B 221, alloy as standard with manufacturer. Coat surface of frame in contact with cementitious materials with manufacturer's standard protective coating. The traffic surface shall be of smooth profile bar shape with inwardly enlarging openings to minimize debris entrapment.
- D. Hold Downs: Hidden mounting tabs with slotted holes, Type 304 stainless steel, to secure screen to concrete surface.
- E. Loading: Units shall support a uniform load of 400 lbs. per square foot.
- F. Tolerance: Panels shall be designed and fabricated so as to ensure that the completed tread panels are within the tolerances specified herein while under a no-load condition. Panel length and width shall be within 1/8" plus or minus.

2.2 FABRICATION

- A. Shop to fabricate floor grilles to greatest extent possible in sizes shown. Where not otherwise shown, provide single unit for each grille installation, but do not exceed manufacturer's maximum size recommendation for units intended for removal and cleaning. Where possible, contractor must verify field measurements sizes before shop fabrication.
- B. Fabricate frame members in single lengths or, where frame dimensions exceed maximum available lengths, provide minimum number of pieces possible, with hairline joints equally spaced and pieces spliced together by straight connecting pins.

PART 3 - EXECUTION

3.1 INSPECTION

- A. Examine the areas and conditions where entrance floor grilles are to be installed and notify the Architect of conditions detrimental to the proper and timely completion of the work. Do not proceed with the work until unsatisfactory conditions are corrected to permit proper installation of the work.

3.2 INSTALLATION

- A. Install grille frames integrally with principal pour of concrete floor system. Locate, align and level frame members accurately.
- B. Protection: Upon completion of frame installations and concrete work, provide temporary filler of plywood or fiberboard in mat recesses, and cover frames with plywood protective flooring. Maintain protection until construction traffic has ended and project reaches substantial completion.
- C. Delay installation of grilles until work on the project reaches substantial completion.
- D. Install grille in frame and anchor with hidden lock downs.

END OF SECTION 124816