

Suggested Specifications | Section 124813
Ronick Entrance Floor Mats and Frames: BaseGrill

Note: After downloading this spec, the Specifier must choose the correct finish, insert type, and frame options and delete all other options to produce an accurate specification.

PART 1 - GENERAL

1.01 SUMMARY

- A. Section includes:
 - 1. Entrance matting systems, including stainless steel floor grilles and frames.
- B. Related Sections: The following sections contain requirements related to this section:
 - 1. Section 03 30 00, "Cast-in-Place Concrete" and Section 03 60 00, "Grouting" for concrete floor slab recess, and grouting frames into recess.
 - 2. Section 07 11 00, "Damp-proofing."
 - 3. Section 15 15 00, "Sanitary Waste and Vent Piping," for floor drain if applicable.

1.02 REFERENCES

- A. American Society for Testing and Materials (ASTM)
 - 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
- B. American Architectural Manufacturers Association (AAMA)
 - 1. AAMA 606.1 Voluntary Guide Specifications and Inspection Methods for Integral Color Anodic Finishes for Architectural Aluminum
 - 2. AAMA 607.1 Voluntary Guide Specifications and Inspection Methods for Clear Anodic Finishes for Architectural Aluminum

1.03 SUBMITTALS

- A. Product Data: Manufacturer's Product Specifications, Installation and Maintenance Instructions.
- B. Shop Drawings: Show layout and types of grilles and frames not less than half- scale sections of typical installations, details of patterns or designs, anchors, accessories, and field measurements of slab recess to receive framed grates (if applicable).
- C. 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.
- D. Samples for Verification Purposes: Not less than six-inch square sections of grille materials and six-inch (152 mm) length of frame material in selected colors and finishes for each type of grate and frame specified.

- E. Installation, Operations and Maintenance data.
- F. Sustainable Design Submittals: 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.

1.04 QUALITY ASSURANCE

- A. Single Source Responsibility: Obtain floor grilles and frames from one source and from a single manufacturer. Rolling Load: 500 lbs. (226 kg) per wheel.

1.05 SUBSTITUTIONS

- A. Proposals for substitution products shall be accepted only from bidding contractors and not less than 10 working days before bid due date. Contractor guarantees that proposed substitution shall meet the performance and quality standards of this specification.

1.06 PROJECT CONDITIONS

- A. If product is to be recessed, coordinate with concrete work so that products are available for placing integrally with floor slabs.

1.07 WARRANTY

- A. Floor mats and frames shall be fabricated free of defects in materials and workmanship in accordance with the General Conditions, and the manufacturer shall offer a five-year warranty against defects in materials and workmanship. Manufacturer's warranty applies in all cases.

PART TWO – PRODUCTS

2.01 ACCEPTABLE MANUFACTURERS

- A. Drawings and specifications are based on literature provided by Ronick Matting Systems, Inc. unless otherwise indicated. Other manufacturers must comply with the minimum levels of material and detailing indicated on the drawings and specified herein.

2.02 MATERIALS

- A. Stainless steel – Type 304 or 316 stainless steel for surface wires and support bars.

2.03 ENTRANCE SYSTEM FLOOR GRILLE –

- A. Model and Description: Stainless Steel Grilles. Type 304 or 316 stainless steel per ASTM A 276 available in depths of **[3/8" (9.52 mm) SS-838]**, **[5/8" (15.9 mm) SS-858]**, **[1-1/8" (28.6 mm) SS-898]**. (*Specifier to select one depth and delete others*).

1. Construction: Surface Wires: .090" (2.4 mm) by 0.156" (4 mm) wire with 0.070" (1.8 mm) support bars spaced 1" (24 mm) O.C. Spacing between wires shall be 0.233" (5.9 mm) O.C.
2. Lockdowns: BaseGrill models utilize a pre-assembled hidden lockdown consisting of a stainless-steel keyhole clip complete with a screw retaining strap, #10 bolt retainer, 10-24 x 1-1/4" stainless steel machine screw and 10-24 threaded lead anchor. BaseGrill model lockdown is a 15/16" x 15/16" x 3/16" type 304 stainless steel hold-down plate. The plate is pre-welded flush to the surface of the grille panel and is pre-drilled and countersunk to receive a stainless steel ¼-20 x 1" Flathead Phillips machine screw and ¼-20 threaded lead anchor. Other lockdowns provided per designation.
3. Tread wires shall be resistance welded at each joint.
4. Fasteners: Non-corrosive screws and anchors for securing frames together and to floors.
5. Rail finish shall be mill.
6. Unit must meet rolling load of 500 lbs. (226 kg) per wheel.

2.04 ENTRANCE SYSTEM GRATE FRAME (*Specifier to select one below and delete others*)

- A. Model SS-38: Stainless steel frame, Type 304 stainless steel; 1/8" (3.2 mm) profile; 3/8" (9.52 mm) depth. Finish: #4 Satin.
- B. Model SS-58: Stainless steel angle frame, Type 304 stainless steel; 1/8" (3.2 mm) profile; 5/8" (15.9 mm) depth. Finish: #4 Satin.
- C. Model SS-98: Stainless steel angle frame, Type 304 stainless steel; 1/8" (3.2 mm) profile; 9/8" (28.6 mm) depth. Finish: #4 Satin.

PART 3 – EXECUTION

3.01 EXAMINATION

- A. Products must be placed on a flat and level substrate. Substrate shall meet tolerance of 1/8" (3.2 mm) over 10 feet (3.28 M) in accordance with ACI 302.
- B. Examine the substrates and conditions under which the work is to be performed and notify the contractor in writing of conditions detrimental to the proper and timely completion of the work. Do not proceed with the installation 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 spacers and anchorages for proper location and secure attachment of frames to concrete.
 2. For installation in terrazzo flooring, contact manufacturer

3.03 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 of operations including painting and decorating are complete.

END OF SECTION