

**SECTION 12484
ENTRANCE MATS AND GRATES**

Part 1 - General

- 1.01 Summary
- A. This section includes the following types of Flooring Systems:
 - 1. Entrance Matting and Framing Assemblies
 - B. Related Sections
 - 1. 03300 "Cast-In-Place Concrete" and 03600 "Grout" for cast-in-place and grouting of recessed frame
- 1.02 References
- A. American Society for Testing and Materials (ASTM)
 - B. National Fire Protection Agency (NFPA)
 - C. The Aluminum Association, Inc.
 - D. The National Floor Safety Institute (NFSI)
 - E. ADA Accessibility Guidelines (CFR Part 36 Appendix A)
- 1.03 Submittals
- A. Submit the following in accordance with specification section 01300 and contract requirements.
 - B. Product data for each type of entrance matting and frame to include:
 - 1. Product detail drawing including product cross-section and technical information.
 - 2. Manufacturer's product specification, installation instructions.
 - 3. Manufacturer's maintenance and cleaning instructions.
 - 4. Shop drawings showing traffic direction, dimensions, sectioning, and framing.
 - C. Product samples representing the assembled grating and frame assembly.
- 1.04 Quality Assurance
- A. Flammability: Critical radiant flux 0.45 watts/m² or greater, in accordance with ASTM E648. Life Safety Code® NFPA 101, Class 1 Interior Floor Finish Testing and Classification.
 - B. Slip Resistance: Coefficient of friction 0.60 or greater, in accordance with ASTM D2047 tested in wet conditions.
 - C. Rolling Load: No deformation with 500 lb/wheel and minimum of 2500 passes. Load applied to a 5" diameter, 2" wide solid polyurethane wheel.
 - D. Single Source: Obtain entrance matting and frames from a single source to ensure dimensional compatibility.
- 1.05 Delivery, Storage and Handling
- A. Deliver materials in unopened original factory packaging, labeled to identify product and manufacturer. Store in controlled environment. To avoid damage do not stack other material on top of matting or frames.
- 1.06 Project Conditions
- A. Coordinate installation of recess frame with concrete construction. Install frames to ensure dimensions provided in shop drawings are maintained. Finished recess must be flat and level. Defer frame installation until related interior finish work is in progress.

Part 2 - Products

- 2.01 Manufacturers
- A. Supply entrance matting and frames as manufactured by the Architectural Products Division of Pawling Corporation, 32 Nelson Hill Road, Wassaic, NY 12592. Other manufacturers must comply with requirements indicated in this specification, products data, and shop drawings.
- 2.02 Materials
- A. Aluminum: ASTM B221, alloy 6063-T5 for extrusions.
 - B. Stainless Steel: Type 304.
- 2.03 Entrance Grating
- A. Pawling Corporation model RG-710 Drain-Well® Entrance Grating. Manufactured from type 304 stainless steel V-Wire resistance welded to type 304 stainless steel fin support rails. V-Wire rails shall be .069" x .185" spaced to provide .125" opening to allow for drainage. Support fins shall be .070" x .500" to provide an overall grating height of 5/8". Support fins are spaced approximately 1" on center. Walking surface is a #3 satin finish.
 - B. Hold-Downs
 - 1. Grating shall be mechanically fastened to substrate using hidden stainless steel clip and fastener system. Hold-Downs shall not obstruct the walking surface.
 - C. Framing
 - 1. Cast-In-Place: Model RGFA-710, alloy 6063-T5 extruded aluminum recessed framing. Installed frame provides 1/8" exposed perimeter trim and 5/8" deep recess. Frame provides continuous thread-slot for use with hidden hold-downs. Standard in mill finish aluminum. Installer to use self-leveling screed to ensure smooth, flat recess.

**Product Specification
RG-710 Drain-Well® Entrance Grate**

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Systems
Entrance
Matting &
Gratings**

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2. Angle Frame: Model RGFS-710, extruded type 304 stainless steel 3/4" x 3/4" angle frame. Installed frame provides 1/8" exposed perimeter trim and 5/8" deep recess. Standard in mill finish. Installer to use self-leveling screed to ensure smooth, flat recess.

Part 3 - Execution

- 3.01 Examination
 - A. Examine substrate and area where matting is to be installed. Do not proceed until unsatisfactory conditions have been corrected.
- 3.02 Installation
 - A. Install products in accordance with manufacturer's installation instructions.
 - B. Recessed opening must be flat, 1/8" in 10'-0", and free of debris before matting is installed.
- 3.03 Protection
 - A. Protect installed frames from damage by using temporary plywood filler in recess opening. Cover exposed frames with similar materials until construction traffic is minimized. Install matting when project is near substantial completion and no further wheeled traffic or major construction operations will affect matting.
- 3.04 Cleaning
 - A. Include matting and recess in a routine cleaning and maintenance program. Regular cleaning will maximize functionality, appearance, and life span of the product. Refer to manufacturer's cleaning and maintenance instructions for additional information.