

**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. The Aluminum Association, Inc.
 - C. The National Floor Safety Institute (NFSI)
 - D. 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.
 - C. Product samples representing the tile and frame assembly including installation accessories.
- 1.04 Quality Assurance
- A. Textile
 - 1. Flammability:
 - a. Critical radiant flux 0.45 watts/m² or greater, in accordance with ASTM E 648. Life Safety Code[®] NFPA 101, Class 1 Interior Floor Finish Testing and Classification.
 - b. CFR Part 1630 (FF 1-70) self extinguishing.
 - 2. Smoke Density: Less than 450 in accordance with ASTM E 662
 - 3. Antimicrobial: AlphaSan built-in protection
 - 4. Face Weight: 27 oz/sqyd
 - B. Tile Base Friction: DIN 53375 - B (1986).
 - C. 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, Wassauc, 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 6105-T5 and 6063-T5 for extrusions.
 - B. Architectural Bronze: ASTM B455, alloy 385 for extrusions.
 - C. Thermoplastic: UV-Resistant Thermoplastic
 - 1. 25% Post-Consumer Polypropylene
 - 2. 10% Post-Industrial Thermoplastic
 - D. Textile: Type 6,6 nylon, tufted cut-pile, twisted and heat-set face fibers.
- 2.03 Entrance Matting
- A. Pawling Corporation model EM-110 Harmony tile modular entrance matting. UV-Resistant thermoplastic tile base integrated with heavy duty tufted cut-pile 6,6 nylon carpet inserts. Tiles shall have interlocking 7.87" x 7.87" x .50" thick base with three 1.5" wide nylon carpet inserts spaced 1" apart by an open circular design with scrapers to provide drainage and remove debris. Tiles interlock with EM-100 Harmony series thermoplastic tiles. EM-105 beveled nosing available option on all edges. Tile base is standard in color #38 charcoal. Carpet inserts available in manufacturer's standard colors.

**Product Specification
EM-110 Harmony Tile Entrance Mat**

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Gratings**

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- B. Flexible Beveled Nosing
 - 1. Model EM-105 nosing kit shall consist of four 1 5/8" x 72" sections, 2 male and 2 female, interlocking thermoplastic beveled nosing for surface applications.
- C. Framing
 - 1. Level Bed: Model MRF-1002, alloy 6063-T5 extruded aluminum recessed framing or MRF-1005 alloy 385 solid bronze. Installed frame provides 3/16" exposed perimeter trim and a 7/16" deep recess. Aluminum frame standard in mill finish aluminum, also available in clear, medium bronze, and black anodized finishes (*specify anodized finish for best resistance to contact with concrete*). Bronze frame available in mill finish. Installer to use self-leveling screed to ensure smooth, flat recess.
 - 2. Angle Frame: Model SSF-125, alloy 6105-T5 extruded aluminum angle frame. Installed frame provides 1/8" exposed perimeter trim and a 7/16" deep recess. Standard in mill finish aluminum, also available in clear, medium bronze, and black anodized finishes (*specify anodized finish for best resistance to contact with concrete*). Installer to use self-leveling screed to ensure smooth, flat recess.
 - 3. Surface Frame: BSF-225, alloy 6105-T5 extruded aluminum bevel frame with medium grit abrasive insert. Surface installed to provide 2" wide, ADA compliant, beveled perimeter trim and a 7/16" deep recess. Standard in mill finish aluminum, also available in clear, medium bronze, and black anodized finishes (*specify anodized finish for best resistance to contact with concrete*). Abrasive available in manufacturer's standard colors.

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.