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***DM- DUROMAT***

**SUGGESTED SPECIFICATION  
SECTION 124813  
ENTRANCE FLOOR MATS ANSD FRAMES**

**Part 1 GENERAL**

**1.01 Summary**

- A.** This section includes the following types of entrance flooring systems:
  - 1.** Floor Mats & Frame Assemblies
- B.** Related Sections: The following sections contain requirements related to this section:
  - 1.** Grouting frames into recess; refer to sections 03300 “Cast-In-Place Concrete” and section 03600 “Grout”
  - 2.** Special requirements of various flooring types; refer to section 09400 “Terrazzo”

**1.02 References**

- A.** American Society for Testing and Materials (ASTM)
- B.** The Aluminum Association
- C.** The Carpet and Rug Institute (CRI)
- D.** The National Floor Safety Institute (NFSI)

**1.03 Submittals**

- A.** General: Submit the following in accordance with conditions of contract and Division 1 specification section 01300.
- B.** Product data for each type of floor mat and frame specified, including manufacturer's specifications and installation instructions.
- C.** Shop drawings in sufficient detail showing layout of mat and frame specified including details indicating construction relative to materials, direction of traffic, spline locations, profiles,

anchors and accessories.

- D. Samples for verification purposes: Submit a sample of the floor mat and frame members showing each type of color for exposed floor mat, frame and accessories required.
- E. Maintenance data in the form of manufacturer's printed instructions for cleaning and maintaining floor mats.

#### **1.04 Quality Assurance**

- A. Flammability in accordance with ASTM E648, Class 1, Critical Radiant Flux, minimum 0.45 watts/m<sup>2</sup>.
- B. Slip resistance in accordance with ASTM D-2047-96, Coefficient of Friction, minimum 0.60 for accessible routes. *[Specifier note: Slip and fall accidents are a major concern in commercial entranceways. We recommend that approved systems be certified by the manufacturer as meeting a minimum coefficient of friction, when tested in wet conditions, of 0.60.]*
- C. Standard rolling load performance is 300 lb./wheel with larger loading requirements as specified (load applied to a solid 5" x 2" wide polyurethane wheel, 1000 passes without damage). *[Specifier note: For entranceways in businesses such as retail outlets, airports, banks, and casinos, rolling load performance is a critical factor. We recommend that units with the highest practical loading capability be specified for such entrances.]*
- D. Single source responsibility: Obtain floor mats and frames from one source of a single manufacturer.
- E. Utilize prime and a minimum of 30% recycled PVC vinyl in random loop design.

#### **1.05 Delivery, Storage and Handling**

- A. Deliver materials to the project site ready for use and fabricated in as large sections and assemblies as practical, in unopened original factory packaging clearly labeled to identify manufacturer.

#### **1.06 Project Conditions**

- A. Field measurements: Check actual openings for mats by accurate field measurements before fabrication. Record actual measurements on final shop drawings. Coordinate fabrication schedule with construction progress to avoid delay of work.
- B. For recess application coordinate frame installation with concrete construction to ensure recess

and frame anchorage are accurate and that the base is level and flat. Defer frame installation until building enclosure is complete and related interior finish work is in progress.

## **Part 2 Products**

### **2.01 Manufacturers**

- A. Drawings and specifications are based on manufacturer's literature from Construction Specialties, 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. Prime and recycled PVC.
- B. Aluminum - ASTM B 221, 6063-T5, 6063-T6 for extrusions.

### **2.03 Floor Mats**

- A. **Model and Description - DM DuroMat** shall be manufactured from prime and recycled PVC in random vinyl loop design. Matting to be flame, chemical and weather resistant. Color shall be integral and supplied in one of eighteen standard colors as offered by manufacturer. Duromat available with vinyl edging (Standard mats are supplied unbacked with a one 1" (25.4mm) vinyl edging or .070"(1.78mm) thick continuous vinyl backing) or roll cut to be trimmed in field.

### **2.04 Mat Frame** *(if required)*

- A. **TNG - Tapered Angle Frame** shall be a 1/2"(12.7mm) deep recessed frame in 6063-T5 aluminum alloy. Frame color shall be supplied in standard mill or one of 7 optional colors as offered by manufacturer. (Custom colors are available.) Choose from anodized or heavy-duty powder coat finish. **Note:** For use in recess applications. Duromat material must be oversized, trimmed, and adhered to substrate.
- B. **VE- Vinyl Edging** – 1" (25.4mm) Tapered vinyl edging adhered to Duromat perimeter, for surface mounted applications, available in Black.

### **2.05 Options for DuroMat** *(Specifier to select one below and delete others)*

- A. **L- Logo Option** Each entrance mat specifically detailed shall include a logo or trademark as follows:
  - 1) Identify type signature or logo required [i.e., letterhead].
  - 2) Specify number of colors within logo.

**B. Vinyl backing** - .070" (1.78mm) continuous vinyl backing. Color Black.

### **Part 3 Execution**

#### **3.01 Examination**

**A.** Verification of conditions: 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 Preparation**

**A.** Manufacturer shall offer assistance and guidance to provide a template of irregular shaped mat assemblies to ensure a proper installation.

#### **3.03 Installation**

**A.** Install the work of this section in strict accordance with the manufacturer's recommendations.

**B.** Set mat at height recommended by manufacturer for most effective cleaning action.

**C.** Coordinate top of mat surfaces with bottom of doors that swing across to provide ample clearance between door and mat

#### **3.04 Cleaning**

**A.** Clean the surface and recessed well as frequently as possible to reduce the effects of accumulated soiling that may hinder performance and life-time.

#### **3.05 Protection**

**A.** After completing required frame installation and concrete work, provide temporary filler of plywood or fiberboard in recesses, and cover frames with plywood protective flooring. Maintain protection until construction traffic has ended and project is near time of substantial completion.

**B.** Defer installation of floor mats until time of substantial completion of project.