

SECTION 12484

FLOOR MATS AND FRAMES

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.02 SUMMARY

- A. This Section includes the following:
 - 1. Roll-up vinyl-tread rail floor mats with aluminum hinges.
 - 2. Mat frames.

1.03 SUBMITTALS

- A. General: Submit in accordance with Section 01300.
- B. Product Data: Include manufacturer's specifications and installation instructions, construction details, material descriptions, dimensions of individual components and profiles, and finishes for each type of floor mat and frame specified.
- C. Shop Drawings: For floor mats and frames. Show assembly, joint locations, installation details, layout, plans, elevations, sections, accessories, anchors, and attachments to other Work.
- D. Samples for Selection: For each type of floor mat indicated.
- E. Maintenance Data: For cleaning and maintaining floor mats to include in maintenance manuals.

1.04 QUALITY ASSURANCE

- A. Source Limitations: Obtain floor mats and frames through one source from a single manufacturer.
- B. Accessibility Requirements: In addition to requirements of authorities having jurisdiction, provide installed floor mats that comply with Section 4.5 in the U.S. Architectural & Transportation Barriers Compliance Board's "Americans with Disabilities Act (ADA), Accessibility Guidelines for Buildings and Facilities (ADAAG)."

PART 2 - PRODUCTS

2.01 METAL FRAME MATERIALS

- A. Extruded Aluminum: **ASTM B 221**, alloy 6061-T6 or alloy 6063-T5, T6, or T52 as standard with manufacturer.

2.02 FLOOR MATS

- A. Roll-up Vinyl Rail Hinged Mats: Vinyl-acrylic tread rails with slotted or perforated aluminum hinges to form **3/8-inch**-thick, tread rail modules of manufacturer's standard width. Provide **1/4-inch**-high, **33-oz./sq. yd.** weight, level-cut, nylon-pile carpet tread inserts. Carpet inserts shall be fusion bonded to rigid two-ply backing and shall be supplied in continuous splice-free lengths. Carpet insert shall be anti-static, antimicrobial, and soil-resistant treated.
 - 1. Tread Rail Color: As selected by Architect from manufacturer's full range of options.

2. Aluminum Hinge Color: As selected by Architect from manufacturer's full range of options.
3. Carpet Insert Color: As selected by Architect from manufacturer's full range of colors.
4. Product: Pedimat, M1; Construction Specialties, Inc.

2.03 FRAME

- A. Surface-Mounted Aluminum Frame: Extruded aluminum angle edge-frame with 1/8-inch wide exposed face. Provide with floor anchorage devices, mitered corners, and sizes recommended by manufacturer.
 1. Color: Clear anodized.
 2. Location: Where frame abutts change in flooring.
 3. Product: Aluminum Angle Frame, ANG; Construction Specialties, Inc.

2.04 FABRICATION

- A. General: Where possible, verify sizes by field measurement before shop fabrication.
- B. Floor Mats: Shop fabricate units to greatest extent possible in sizes as indicated. If not otherwise indicated, provide single unit for each mat installation; do not exceed manufacturer's recommended maximum sizes for units that are removed for maintenance and cleaning. Where joints in mats are necessary, space symmetrically and away from normal traffic lanes.
- C. Surface-Mounted Metal Mat Frames: Angle frames fabricated from extruded aluminum in lengths to fit floor mat type specified, for permanent surface-mounted installation, and complete with corner connectors, splice plates or connecting pins, and postinstalled expansion anchors.
 1. With manufacturer's standard protective coating, coat surfaces of aluminum frames that will contact cementitious material.

2.05 FINISHES, GENERAL

- A. Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes.
- B. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.

2.06 ALUMINUM FINISHES

- A. Finish designations prefixed by AA comply with the system established by the Aluminum Association for designating aluminum finishes.
- B. Class II, Clear Anodic Finish: AA-M12C22A31 (Mechanical Finish: nonspecular as fabricated; Chemical Finish: etched, medium matte; Anodic Coating: Architectural Class II, clear coating 0.010 mm or thicker) complying with AAMA 611.

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Examine substrates and floor conditions for compliance with requirements for location, sizes, and other conditions affecting installation of floor mats and frames.
 1. Proceed with installation only after unsatisfactory conditions have been corrected.

3.02 INSTALLATION

- A. Install surface-type units to comply with manufacturer's written instructions at locations indicated; coordinate with entrance locations and traffic patterns.
 1. Anchor fixed surface-type frame members to floor with devices spaced as recommended by manufacturer.

3.03 PROTECTION

- A. After completing frame installation, 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 Substantial Completion.
- B. Defer installation of floor mats until Project is near Substantial Completion.

END OF SECTION