

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. Entrance mats in surface-mounted frames.
 - 2. Vinyl Edge Walk-Off Mats.
- B. Related Sections include the following:
 - 1. Division 3 Section "Cast-in-Place Concrete" for slab depression grouting and filling for recessed foot grilles and frames.

1.03 SUBMITTALS

- A. General: Submit in accordance with Section 01330.
- B. Product Data: Include construction details, material descriptions, dimensions of individual components and profiles, and finishes.
- C. Shop Drawings: For floor mats, foot grilles, and frames. Show assembly, joint locations, installation details, layout, plans, elevations, sections, accessories, anchors, and attachments to other Work.
 - 1. Coordinate Shop Drawings showing oversized recess for deferred installation of frames with concrete work.
- D. Maintenance Data: For floor mats to include in maintenance manuals.

1.04 QUALITY ASSURANCE

- A. Source Limitations: Obtain floor mats, foot grilles, and frames through one source from a single manufacturer.
- B. Accessibility Requirements: Provide installed floor mats and grilles 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)."

1.05 COORDINATION

- A. Coordinate size and location of oversized recesses in concrete work to receive foot grilles and frames. Defer frame installations until building enclosure is completed and related interior finish work is in progress. Concrete, reinforcement, and formwork requirements are specified in Division 3.

PART 2 - PRODUCTS

2.01 ENTRANCE MAT EM1

- A. Carpet-type Mat, EM1: Polypropylene carpet bonded to **1/8-inch to 1/4-inch** thick, flexible rubber backing to form mats **3/8-inch** thick with non-raveling edges. For installation with surface mounted frame.
 - 1. Colors, Textures, and Patterns: As indicated by manufacturers designations.
 - 2. Mat Size: As indicated.
 - 3. Product: Berber; Mats Inc.
- B. Surface-mounted Aluminum Frame: Extruded aluminum edge frame with **1/8-inch** wide exposed face; clear anodized finish. Provide frame where mat abuts change in flooring. Provide with floor anchorage devices, mitered corners, and sizes recommended by manufacturer.
 - 1. Product: Aluminum "L-Frame"; Mats Inc.

2.02 CARPET EM2

- A. Carpet-type Mat, EM2: 100% solution dyed UV stabilized Polypropylene fibers; carpet bonded to vinyl backing to form mats **3/8-inch** thick with **1-inch** wide vinyl edge.
 - 1. Total weight: 119 oz. / sq. yd.
 - 2. Colors, Textures, and Patterns: As indicated by manufacturer's full range.
 - 2. Mat Size: As indicated.
 - 3. Product: Pinstep; Mats Inc.

2.03 FABRICATION

- A. 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.
- B. Foot Grilles: Shop-fabricate foot grilles to greatest extent possible in sizes as indicated. Unless otherwise indicated, provide each grille as a single unit; do not exceed manufacturer's recommended maximum sizes for units that are removed for maintenance and cleaning. Where joints in grilles are necessary, space symmetrically and away from normal traffic lanes.
- C. Coat surfaces of aluminum frames that will contact cementitious material with manufacturer's standard protective coating.

2.04 ALUMINUM FINISHES

- A. General: Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes.
- B. Finish designations prefixed by AA comply with the system established by the Aluminum Association for designating aluminum finishes.

- C. Class II, Clear Anodic Finish: AA-M12C22A31 (Mechanical Finish: non-specular 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, minimum recess depth and other conditions affecting installation of floor mats, foot grilles, and frames.
 - 1. Proceed with installation only after unsatisfactory conditions have been corrected.

3.02 PREPARATION

- A. Level setting bed to receive grate with Ardex K-15. Apply Ardex to a minimum 1/8-inch thickness over primed concrete.

3.03 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.

3.04 PROTECTION

- A. After completing 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 Substantial Completion.
- B. Defer installation of floor mats and foot grilles until Project is near Substantial Completion.

END OF SECTION 12484