

SECTION 12 48 13**ENTRANCE FLOOR MATS AND FRAMES****PART 1 - GENERAL****1.1 DESCRIPTION**

This section specifies surface mounted floor mats and frame assemblies.

1.2 RELATED WORK

- A. Rubber tile flooring: Section 19 65 16, RESILIENT SHEET FLOORING.
- B. Color and texture of aluminum and resilient material: Section 09 06 00, SCHEDULE FOR FINISHES.

1.3 SUBMITTALS

- A. Submit in accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.
- B. Shop Drawings: Show design and installation details.
- C. Manufacturer's Literature and Data:
 - 1. Entrance floor mats and frames.
- D. Test Report: Showing that resilient material complies with specified fire and safety code requirements.

1.4 QUALITY ASSURANCE

- A. Flammability in accordance with ASTM E648, Class 1, Critical Radiant Flux, minimum 0.45 watts/m2.
- B. Slip resistance in accordance with ASTM D-2047-96, Coefficient of Friction, minimum 0.60 for accessible routes.
- C. Standard rolling load performance is 350 lb./wheel with larger loading requirements as specified (load applied to a solid 5" x 2" wide polyurethane wheel, 1000 passes without damage).
- D. Single Source Responsibility: Obtain floor mats and frames from one source of a single manufacturer.

1.5 DELIVERY AND STORAGE

- A. Deliver materials to the site in original sealed packages or containers marked with the name and brand, or trademark of the manufacturer.
- B. Protect from damage from handling and construction operations before, during and after installation.
- C. Store in a dry environment of approximately 21° C (70 degrees F) for at least 48 hours prior to installation.

1.6 APPLICABLE PUBLICATIONS

- A. Publications listed below form a part of this specification to extent referenced. Publications are referenced in text by basic designation only.

- B. American Society for Testing and Materials (ASTM):
A167-99(R2009).....Stainless and Heat-Resisting Chromium-Nickel
Steel Plate, Sheet, and Strip
B221-08.....Aluminum and Aluminum-Alloy Extruded Bars,
Rods, Wire, Shapes, and Tubes
E84-09.....Surface Burning Characteristics of Building
Materials
- C. The National Association of Architectural Metal Manufacturers (NAAMM):
AMP 500-06.....Metal Finishes Manual
- D. Society of American Automotive Engineers (SAE):
J 1545-05.....Instrumental Color Difference Measurement for
Exterior Finishes.
- E. Underwriters Laboratories Inc. (UL):
Annual Issue.....Building Materials Directory

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Aluminum Extruded: ASTM B221, Alloy 6063, Temper T5 or T6. // Aluminum alloy used for colored anodizing coating shall be as required to produce specified color.
- B. Resilient Material:
1. Recycled rubber inserts meeting following requirements:
 - a. Minimum impact resistance of 1197 ps (25 ft lbs per sq.ft) when tested in accordance with ASTM D256 (Izod impact, ft.lbs. per inch notch).
 - b. Class 1 fire rating when tested in accordance with ASTM E84, having a maximum flame spread of 25 and a smoke developed rating of 450 or less.
 - c. Rated self extinguishing when tested in accordance with ASTM D635.

2.2 FLOOR MATS

- A. Surface Mounted Floor Mats:
1. Exposed hinge rail connectors shall be extruded 6063-T6 aluminum complete with perforations for drainage. Tread rails shall be manufactured from high-impact vinyl/acrylic, complete with coextruded soft-durometer cushions.
 2. Surface Mounted Tapered Aluminum Frame shall be 6063-T5 aluminum alloy, 1" wide in traffic direction and 1 5/8" wide in the opposite direction, and permanently positions mat for surface mounted

applications. Mat height shall be 7/16". Frame color shall be supplied in mill finish.

3. Tread Inserts shall be 100% post-consumer recycled rubber, color to be selected from manufacturer's standard.

PART 3 - INSTALLATION

3.1 FLOOR MATS

- A. Install floor mats in accordance with manufacturer's instructions.
- B. Preparation shall include the removal of existing resilient floor and existing adhesive. Do not use solvents to remove adhesives. Coordinate with Asbestos Abatement Section if asbestos abatement procedures will be involved.

3.2 PROTECTION

- A. Defer installation of floor mats until time of substantial completion of project.

3.3 CLEANING

- A. It is important to the life cycle of the entrance mat that a maintenance schedule be developed which includes regular vacuuming and extraction that correctly matches the amount of traffic the mat incurs.

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