

Suggested Specifications | Section 124813

Ronick Entrance Floor Mats and Frames: BaseTread 200, BaseTread 500, BaseTread 500 SA

Note: After downloading this spec, the Specifier must choose the correct finish, insert type, and frame options and delete all other options to produce an accurate specification.

PART 1 - GENERAL

1.01 SUMMARY

- A. Section includes:
 - 1. Entrance matting systems, including aluminum treads and frames
- B. Related Sections: The following sections contain requirements related to this section:
 - 1. Grouting frames into recess; refer to Section 03300, "Cast-in-Place Concrete" and Section 03600, "Grouting."
 - 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)
- E. Other referenced documents
 - 1. LEED v3 and LEED v4

1.03 SYSTEM DESCRIPTION

- A. Performance Requirements: Provide [aluminum entrance floor tread system], which has been manufactured and installed to maintain performance criteria stated by Manufacturer without defects, damage, or failure.

1.04 SUBMITTALS

- A. General: Submit listed submittals in accordance with the Conditions of the Contract and Division 1 Submittal Procedures Section.
- B. Product data: Submit product data, including Manufacturer's specification sheet and installation instructions for specified products. Include methods of installation and substrate preparation for each type of substrate.
- C. Sustainable Design Submittals: For projects requiring LEED submittal based on LEED v3
 - 1. Submit documentation substantiating that BaseTread 200 Series and BaseTread 500 Series contain a minimum of 45.8% (HD carpet inserts) and 38.3" (all other) pre-consumer recycled content and therefore contributes to Materials & Resources Credit 4.
 - 2. Submit documentation substantiating that the project is located within 500 miles of the manufacturing

- facility and therefore contributes to Materials & Resources Credit 5
3. Submit documentation substantiating that the project has permanently installed BaseTread 200 Series or BaseTread 500 Series at least 10 feet in length and therefore contributes to Indoor Environmental Quality Credit 5.
- D. Sustainable Design Submittals: For projects requiring LEED submittal based on LEED v4
1. Submit documentation substantiating that BaseTread 200 Series and BaseTread 500 Series contain a minimum of 45.8% (HD carpet inserts) and 38.3" (all other) pre-consumer recycled content and therefore contributes to Materials & Resources Credit.
 2. Submit documentation substantiating that the project is located within 100 miles of the manufacturing facility and therefore contributes to Materials & Resources Regional Material Credit.
 3. Submit documentation substantiating that the project has a permanent entryway system at least 10 feet in length that is maintained on a weekly basis and therefore contributes to Indoor Environmental Quality Enhanced Indoor Air Quality Strategies Credit.
- E. Shop drawings: Submit shop drawings showing layout, profiles, and product components; including anchorage, accessories, finish colors, patterns, and textures.
- F. Samples: Submit samples for each type and color of exposed entrance mat, frames and accessories required. Provide samples of materials.
- G. Quality Assurance Submittals: (1) Certified test reports showing compliance with specified performance characteristics and physical properties, and (2) Manufacturer's Installation Instructions.
- H. Closeout Submittals: (1) Cleaning & Maintenance Data (Include methods for maintaining installed products and precautions against cleaning materials and methods detrimental to finishes and performance), and (2) Warranty.

1.05 QUALITY ASSURANCE

- A. Standard rolling load performance: 750 lb./wheel rating for the BaseTread 200 product and 1,000 lb./wheel rating for the BaseTread 500 product. (Testing used 1,000 passes) ASTM F2753 Rolling Load Over Resilient Floor Covering.
- B. Slip resistance in accordance with ASTM D-2047 Coefficient of Friction, minimum 0.60 for accessible routes.
- C. Flammability in accordance with ASTM E648, Class 1, Critical Radiant Flux, minimum of 0.45 watts/m². Exceeds Class 1 rating as specified in NFPA Life Safety Code 101 and IBC 804.2 Classification.
- D. Corrosive resistant surpassed in PPS 1001 Corrosion testing.
- E. Single Source Responsibility: Obtain floor mats/grids and frames from one source of a single manufacturer.
- F. All materials are sourced domestically in the continental United States, with 99.8% of all materials being manufactured domestically. Finished product manufactured entirely in the United States.

1.06 SEQUENCING/SCHEDULING

- A. Ordering: Comply with Manufacturer's ordering instructions and lead-time requirements to avoid construction delays.
- B. Delivery: Deliver materials in Manufacturer's original, unopened, undamaged packaging.

- C. Storage: Store materials in temperature and humidity conditions recommended by Manufacturer and protect materials from exposure to harmful weather conditions.
- D. Installation: Except as otherwise indicated herein, sequencing or scheduling for performance of work of this section in relation with other work is Contractor's option. Delay installation of mats until near time of substantial completion for the project.

1.07 PROJECT CONDITIONS

- A. Temperature: Maintain temperature where products will be installed before, during and after installation as recommended by Manufacturer.
- B. Field Measurements: Where possible, verify actual measurements by field measuring before fabrication and include measurements in shop drawings. To avoid construction delays, coordinate field measurements and fabrication schedule based upon construction progress.
- C. Recessed Conditions: It is imperative that the concrete recess is entirely flat and smooth for successful installation. If a concrete contractor is responsible for forming the recess, the pour dimensions may require leveling grout to achieve the proper depth and a smooth finish. The final recess depth must match the specified product and must be field verified. Also, for proper frame installation, the side walls of the concrete recess must also be straight and smooth. Variances with the recess and side walls must be adjusted/corrected prior to product installation.

PART 2 - PRODUCTS

2.01 MANUFACTURER

- A. Drawings and specifications are based on literature provided by Ronick Matting Systems, 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. Exposed hinge rail connectors shall be vinyl hinge only complete with perforations for drainage. Tread rails shall be manufactured from 6063-T6 aluminum, complete with co-extruded soft- durometer combination hinge/cushion, supplied in mill finish, unless otherwise indicated (anodized – clear, light bronze, medium bronze, dark bronze or black).
 - 1. LEED v3
 - a. IEQ Credit 5: BaseTread 200 Series and BaseTread 500 Series are designed for permanent installation.
 - b. MR Credit 4: With vinyl inserts, 45.8% pre-consumer recycled content; with all other, 38.3% pre-consumer recycled content.
 - c. MR Credit 5: Material must be manufactured within 500 miles of project location.
 - 2. LEED v4
 - a. MR Sources of Raw Materials Credit: 45.8% (vinyl inserts) and 38.3% (all other) pre- consumer.

- b. MR Regional Material Credit: Material must be manufactured within 100 miles of project location.
- c. IEQ Enhanced Indoor Air Quality Strategies Credit: BaseTread GB-200 Series and GB- 500 Series are LEED acceptable permanent entryway systems.

B. Tread insert options for BaseTread 200 and BaseTread 500:

1. **Heavy Duty Carpet Inserts** shall meet the Carpet and Rug Institute's standard for good indoor air quality. Fibers shall include a minimum of 100, 12 mil monofilament fibers per square inch and colorfast, solution dyed nylon. Available in one of 12 standard colors as offered by Manufacturer. Each carpet fiber and monofilament shall be fusion-bonded to a rigid two-ply backing to prevent fraying and supplied in continuous splice-free lengths. Carpet weight shall be 33 oz./sq. yd.
2. **Exterior Brush Carpet Inserts** shall be solution-dyed polypropylene fibers with 4,500 total denier, available in one of three standard colors as offered by the Manufacturer. The textured fibers have ultraviolet blockers and color as an integral part of the filament. Each carpet fiber and monofilament shall be fusion-bonded to a rigid two-ply backing to prevent fraying and supplied in continuous splice-free lengths. Carpet weight shall be 33 oz./sq. yd.
3. **Vinyl Inserts** shall include a flexible dual durometer vinyl insert in any one of three colors as offered by Manufacturer.
4. **Vinyl Abrasive Inserts** shall include a flexible abrasive grit tape, bonded to a rigid vinyl tread insert. Tread insert shall be supplied in black, complete with one of five abrasive colors as offered by Manufacturer.
5. **Serrated Aluminum Inserts** shall be extruded 6063-T6 alloy. Serrated aluminum inserts shall be in mill finish, unless otherwise indicated (anodized – clear, light bronze, medium bronze, dark bronze or black).

C. Framing for Aluminum BaseTread Series

1. **L-2 - Aluminum Recessed Angle Frame** for BaseTread 200 shall be a 7/16" deep recessed frame in 6063-T5 aluminum alloy with 1/8" wide exposed surface. Frame color shall be supplied in mill finish unless otherwise indicated (anodized – clear, light bronze, medium bronze, dark bronze or black).
2. **L-5 – Aluminum Recessed Angle Frame** for BaseTread 500 shall be a 3/4" deep recessed frame in 6063-T5 aluminum alloy with 1/8" wide exposed surface. Frame color shall be supplied in mill finish unless otherwise indicated (anodized – clear, light bronze, medium bronze, dark bronze or black).
3. **THFR - Threshold Frame (option for BaseTread 200)** shall be supplied in 6063-T5 aluminum alloy. For surface/recess installations to provide a flush transition from the entryway door threshold to the tread surface. The frame does not require a leveling screed. The threshold frame shall be supplied in mill finish unless otherwise indicated (anodized – clear, light bronze, medium bronze, dark bronze or black).

2.03 PRODUCT SUBSTITUTIONS

- A. Substitutions: No substitutions permitted.

PART 3 – EXECUTION

3.01 SUBSTRATE PREPARATION

- A. Examine substrates and conditions where floor mats will be installed. Do not proceed with installation until unsatisfactory conditions are corrected. Subfloor shall be clean and dry, and within acceptable tolerances.

3.02 INSTALLATION

- A. Sizes: Shop-fabricate units of floor mat to greatest extent possible in sizes as indicated. Where not indicated otherwise, provide single unit for each mat installation, but do not exceed manufacturer's maximum size recommendation for units intended for removal and cleaning. Where joints in mats are necessary, space symmetrically and away from normal traffic lanes. Miter corner joints in framing elements with hairline joints or provide prefabricated corner units without joints. Where possible, verify sizes by field measurement before shop fabrication.
- B. Accessories: [Where indicated for recessed or wall-to-wall installations, provide aluminum framework as recommended by Manufacturer.] General: Strictly comply with Manufacturer's installation instructions and recommendations. Coordinate installation with adjacent work to ensure proper clearances and to prevent tripping hazards.

3.03 CLEANING AND PROTECTION

- A. General Cleaning: Refer to Manufacturer's Cleaning and Maintenance Instructions.
- B. Owner's Personnel: Instruct Owner's personnel in proper maintenance procedures.
- C. Protection: Protect installed product and finish surfaces from damage during construction and until acceptance.

END OF SECTION