

MASTER SPECIFICATION

SECTION 12484 FURNISHINGS – FOOT GRILLE ENTRANCE SYSTEMS

PART 1 - GENERAL

0.1 SUMMARY

- A. Section includes: [Entrance matting systems, including vinyl foot grids]
- B. Related Sections: Section(s) related to this section include:
 - 1. Section 03300 - Cast-In-Place Concrete.
 - 2. Section 08110 - Steel Doors and Frames.
 - 3. Section 08212 - Stile and Rail Wood Doors.
 - 4. Section 08710 - Door Hardware.

0.2 REFERENCES

- A. Standards listed by reference, including revisions by issuing authority, form a part of this specification section to extent indicated. The Standards listed here are identified with a designation number, title or other designation established by the issuing authority.
- B. American Society for Testing and Materials (ASTM):
 - 1. ASTM C1028 Static Coefficient of Friction
 - 2. ASTM E648 Critical Radiant Flux
 - 3. ASTM D3884 Abrasion Resistance
- C. LEED-NC version 3

0.3 SYSTEM DESCRIPTION

- C. Performance Requirements: Provide [vinyl grid entrance floor mat system], which has been manufactured and installed to maintain performance criteria stated by manufacturer without defects, damage or failure.

0.4 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.
 - 1. Sustainable Design Submittals: For projects requiring LEED submittal based on LEED-NC version 3 Submit documentation substantiating that Soft Grid Black contains a minimum of 100% pre-consumer recycled content. Soft Grid Gray contains a minimum of 32% 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 Soft Grid that is at least ten feet in length and therefore contributes to Indoor Environmental Quality Credit 5.
- C. Shop drawings: Submit shop drawings showing layout, profiles and product components, including anchorage, accessories, finish colors, patterns and textures.
- D. Samples: Submit samples for each type and color of exposed entrance mat, frames and accessories required. Provide samples of mat materials.
- E. Quality Assurance Submittals: (1) Certified test reports showing compliance with specified performance characteristics and physical properties, and (2) Manufacturer's Installation Instructions.
- F. 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.

0.5 QUALITY ASSURANCE

- A. Installer: Installer should be highly experienced in performing work of this section, having previously done work similar to that required for this project.

0.6 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 at temperature and in humidity conditions recommended by manufacturer and protect 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.

0.7 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.

PART 2 - PRODUCTS

0.1 ACCEPTABLE MANUFACTURER

- A. Provide Fronrunner Entrance Flooring System by Plastex:
Plastic Extruders Ltd, Russell Gardens, Wickford, Essex, SS11 8DN, UK
or
Plastex Matting Inc, 120 55th St NE, Fort Payne, Alabama, 35967, USA

www.fronrunnerplus.com

0.2 MATERIALS

- A. Vinyl Foot Grille: Constructed from 30% post-industrial recycled polyvinyl chloride (PVC) if gray or other colors, and up to 100% post-industrial recycled PVC if black. Welded in a non-hinged, grille design with an diamond cut non-skid surface, (**non-embossed surfaces not acceptable**) to sizes indicated with the following characteristics:
 - 1. **Fronrunner Entry:** Extruded PVC Grid, [black] [dark gray] [oxford blue] [holly green] [dark brown] color. (Note to specifier: Custom colors upon request; minimums may apply.)
 - 2. **Fronrunner XT:** Extruded PVC Grid for exterior use, [black] [dark gray color]. (Note to specifier: Custom colors upon request; minimums may apply.)
 - 3. **Fronrunner Brush:** Extruded PVC Grid, [black] [dark gray] color, with Nylon 6.6 brush inserts. (Note to specifier: Custom colors upon request; minimums may apply.)
 - 4. **Fronrunner Plus:** Extruded PVC Grid, [black] [dark gray] [oxford blue] [holly green] [dark brown] color, with Nylon carpet inserets in choice of 15+ colors/designs. (Note to specifier: Custom colors upon request; minimums may apply.)
- B. Framing and Nosing Accessories for Vinyl Foot Grille
 - 1. **Recessed Application:** Fronrunner Entrance Flooring System: 3/8" or 5/8": use choice of U, H, R, T frames, mill finish aluminum, or powder coated in dark gray or black.
 - 2. **Surface Mounted Application:** 3/8" or 5/8" grid and beveled, heavy-duty attached nosing.

- C. Product Testing for Vinyl Foot Grille
 - 1. ASTM C1028 Static Coefficient of Friction: Wet .54; Dry .66
 - 2. ASTM E648 Critical Radiant Flux: Class 1
 - 3. ASTM D3884 Abrasion Resistance: 0.4% loss after 1,000 cycles (Taber abrader)
 - 4. LEED-NC version 3
 - a. IEQ Credit 5: Soft Grid is designed for permanent installation.
 - b. MR Credit 4: Black – 100% pre-consumer recycled; Gray – 32% pre-consumer recycled
 - c. MR Credit 5: Material must be manufactured within 500 miles of the project location.

0.3 PRODUCT SUBSTITUTIONS

- A. Substitutions: No substitutions permitted.

PART 3 – EXECUTION

3.1 SUBSTRATE PREPARATION

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

3.2 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.] [Where indicated for surface mount installations, provide tapered vinyl grid edge moldings with flanges cold-welded to back of mat.]
- C. General: Strictly comply with manufacturer's installation instructions and recommendations. Coordinate installation with adjacent work to ensure proper clearances and to prevent tripping hazards.

3.3 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