

SECTION 12 48 13
ENTRANCE FLOOR MATS AND FRAMES
Grizzly FX Heavy Traffic Carpet Matting Master Specification

I.01 SUMMARY

- A. Section includes: Entrance matting systems, floor mats and frames, including walk-off entrance matting systems.
- B. Related requirements:
 - 1. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specifications & References Sections, apply to this Section.
 - 2. Section 03: Concrete work (subfloors), including forming, placing, and finishing concrete floor slabs and grouting frames into recess.
 - 3. Section 06: Woods, Plastics, Composites (subfloors)
 - 4. Section 07: Thermal and Moisture Protection

I.02 REFERENCE STANDARDS

- A. ASTM International
 - 1. ASTM D2859: Surface Flammability of Carpets and Rugs (16 CFR Chapter II, Subchapter D, Part 1630 CPSC FF 1-70)
 - 2. ASTM D5848: Mass Per Unit Area of Pile Yarn Floor Coverings
 - 3. ASTM D1335: Standard Test Method for Tuft Bind of Pile Yarn Floor Coverings
 - 4. ASTM D6119: Standard Practice for Creating Surface Appearance Changes in Pile Yarn Floor Covering from Foot Traffic (20,000 cycles)
 - 5. ASTM E662: Smoke Density (Non-Flaming) Standard Test Method for Specific Optical Density of Smoke Generated by Solid Materials also referenced as NFPA 258
- B. American Association of Textile Chemists and Colorists (AATCC)
 - 1. AATCC 134 Electrostatic Propensity of Carpets
- C. Consumer Products Safety Commission (CPSC)
 - 1. CPSC FF 1-70: Pill Test
- D. Leadership in Energy and Environmental Design (LEED v3, v4)
 - 1. EQc3.8: Green cleaning – entryway systems
 - 2. EQc8.2: HEQ8.2 Indoor Contaminant Control
 - 3. MR Credit 5: Material must be manufactured within 800km of project site.

I.03 SYSTEM DESCRIPTION

- A. **Performance requirements:** A suitable entrance matting system is required at every entrance. The intended purpose is for the entrance matting system to remove and retain soil, debris, water, and other building contaminants that would otherwise be tracked into the building by pedestrians.

I.04 ADMINISTRATIVE REQUIREMENTS

- A. **Coordination:** Install entrance matting after Finishing operations (including painting and ceiling operations) have been completed. Section includes: Entrance matting systems, floor mats and frames, including walk-off entrance matting systems.
- B. **Pre-installation Meetings:** Prior to commencing the Work on site, the Contractor shall request a meeting of affected parties to discuss and resolve administrative procedures and responsibilities, scheduling, protection of existing facilities and adjoining building, safety procedures, access, traffic restrictions, deliveries, sustainability requirements, etc. Meet to confirm project requirements, substrate conditions, manufacturer's installation instructions and warranty requirements in compliance with Division I requirements.

I.05 ACTION & INFORMATION SUBMITTALS

- A. **General:** Submit listed submittals in accordance with the Conditions of the Contract and Division I Submittal Procedures Section.
- B. **Product data:** Submit product data, including Manufacturer's specification sheet and installation instructions for specified products (available from www.sourcefloor.com).
- C. **Shop drawings:** Submit shop drawings showing layout, profiles, and product components.
 - I. For inlaid design (logo) elements: Submit shop drawings showing layout, size, and orientation of inlaid design (logo) elements including specified products.
- D. **Samples:** Submit selection and verification samples showing the required colour(s) and design for entrance matting, as well as any applicable accessories such as edging, recessed well frames, etc.
- E. **Sustainable Design Submittals:** for projects requiring LEED submittal based on LEED EQc3.8 and LEED EQc8.2, submit documentation substantiating that the specified amount (walk-off length) of entrance matting is sufficient and that an ongoing maintenance program that meets LEED requirements will be implemented at occupancy. Submit documentation substantiating that the project is located within 500 miles of the manufacturing facility and therefore contributes to Materials & Resources Credit 5.
- F. **Quality Assurance Submittals:**
 - I. As required by Conditions of the Contract and Division I Regulatory Requirements Section, submit test certificates from an independent test laboratory showing compliance with specified performance characteristics and physical properties. Submit copies of manufacturer's installation instructions.

2. Compatibility and adhesion test reports: Submit test reports confirming adhesive's effectiveness with the product(s) specified.

G. Closeout Submittals:

1. Submit copies of manufacturer's maintenance instructions.
2. Submit copies of manufacturer's warranty.

I.06 QUALITY ASSURANCE

- A. Installer should be well-versed in the installation of entrance matting and other specialty flooring products, having previously completed work similar to that required for this project.
- B. Testing Agency: Agency(ies) shall be independent and qualified to perform the specified product tests.

I.07 DELIVERY, STORAGE, AND HANDLING / SEQUENCING AND SCHEDULING

- A. **General:** Comply with Division I Product Requirements Section
- B. **Delivery and Acceptance Requirements:** Comply with the product supplier's ordering and lead time requirements to avoid construction delays, and to allow material to acclimatize as required in the specified product's installation instructions. Accept delivery of materials only if they are in unopened, undamaged packaging that bears the name and brand of the manufacturer/product supplier, project identification, and shipping and handling instructions.
- C. **Storage and Handling Requirements:** Store materials – including any adhesives or accessories – in the original packaging (as delivered) in areas that are fully enclosed in a climate-controlled space with the HVAC system set at a temperature between 18°C and 26°C. Ensure that any materials delivered to the job site in colder / hotter months are allowed to acclimate to the HVAC settings noted above for a minimum of 48 hours prior to installation. In addition, comply with the storage and handling instructions listed on the product packaging and listed in the manufacturer's installation instructions.
- D. **Installation:** Unless otherwise specified by the manufacturer, sequencing or scheduling for performance of the work listed in this section is the Contractor's option. Delaying the installation of entrance matting systems until as close to occupancy or substantial completion is strongly recommended to avoid incidental damage by work done by other trades.

I.08 SITE CONDITIONS

- A. **Site Climate:** A suitable ambient temperature between 18°C and 26°C must be maintained in all areas where products will be installed a minimum of 48 hours before installation, as well as during and after installation. Thereafter, minimum temperature shall be 14°C.

2.01 ACCEPTABLE MANUFACTURER

- A. **Manufacturer:** Henderson Mat, info@hendersonmat.com, www.hendersonmat.com



Source Floor & Specialties Inc.
Suite 115, 1680 Broadway Street, Port Coquitlam, BC V3C 2M8
info@sourcefloor.com Ph: 604-477-4455

B. **Supplier:** Source Floor & Specialties Inc., 115 – 1680 Broadway Street, Port Coquitlam BC Canada, phone 604-477-4455, info@sourcefloor.com, www.sourcefloor.com

2.02 MATERIALS

A. **Product:** Grizzly FX Premium Dryer/Scraper Entrance Matting

1. Construction:

- 75% tufted loop: 75% post-industrial and 5% post-consumer recycled, solution dyed, small diameter nylon; 26.2 oz per square foot tufted yarn weight
- 25% loop: large diameter polypropylene strands, looped
- 7/32 gauge, 8.33 stitches per inch
- Secondary backing: 50% post-industrial recycled vinyl, 60 mil thickness

2. Width: 69.75” unfinished rolls (6’0” with typical edging); any custom size available upon specification.

3. Length: up to 100 feet standard rolls; any custom size available upon specification.

4. Standard Colours: Onyx, Ebony

5. Custom Colours: Custom colours available; combine up to 5 yarn colours from a palette of 100. Extended lead times and minimum order quantities apply.

B. **Performance:** Physical properties of the entrance matting shall conform to the following minimums:

1. Safety:

- Surface Flammability of Carpets and Rugs (16 CFR Chapter II, Subchapter D, Part 1630 CPSC FF 1-70), ASTM D2859: Pass
- Smoke Density (Non-Flaming) Standard Test Method for Specific Optical Density of Smoke Generated by Solid Materials, ASTM E662: Passes (average maximum density of 383)

2. Performance:

- Electrostatic Propensity of Carpets, AATCC 134: Pass (maximum average of 1.3kv)
- Mass Per Unit Area of Pile Yarn Floor Coverings, ASTM D5848: 27.0 oz / square yard
- Standard Test Method for Tuft Bind of Pile Yarn Floor Coverings, ASTM D1335: average tuft bind 13.7 lbs
- Overall thickness, ASTM D5848: 0.217 inches (5.5 mm)
- Wear resistance, ASTM D6119 (20,000 foot traffic cycles): Minimum average score of 5.0 (defined as “5. Excellent: No visual change noticeable”)

3. LEED

- EQc3.8: Green cleaning – entryway systems
- EQc8.2: HEQ8.2 Indoor Contaminant Control



- MR Credit 5: Material must be manufactured within 800 kilometres of project location.

2.03 ACCESSORY PRODUCTS

- A. Where indicated for surface-mounted applications, provide tapered vinyl moldings with flanges adhered to back of mat on all four sides with mitered corners:
1. “Grizzly Edge” edge-protective extruded vinyl ramped edging (typical);
 2. “Heavy Edge” standard profile extruded vinyl ramped edging;
 3. “Cart Edge” extended-rise extruded vinyl ramped edging (for use in buildings with moderate or higher levels of wheeled traffic.)

2.04 PRODUCT SUBSTITUTIONS

- A. **Substitutions:** No substitutions permitted.

3.01 EXAMINATION

- A. **Overall:** Follow guidelines laid out in Division 01, Section 01 71 00 – Examination and Preparation as well as Section 01 43 00 – Quality Assurance.
- B. **Verification of Conditions:** Subfloors shall be clean and dry. Inspect all substrates and subfloors for proper tolerances, and report any discrepancies to the general contractor in writing.
- C. **Preinstallation Measurements:** Verify actual measurement by field measuring before any onsite cutting, if applicable. To avoid construction delays, coordinate field measurements based upon construction progress.

3.02 SUBSTRATE PREPARATION

- A. Follow guidelines laid out in Division 01, Section 01 71 00 – Examination and Preparation. Examine substrates and conditions where entrance mats will be installed. Do not proceed with installation until unsuitable conditions are corrected, including ambient temperature and moisture levels.
- B. Concrete subfloors: Where concrete subfloors are present, all work required to put the concrete subfloor in acceptable condition shall be the responsibility of the general contractor. Subfloor / substrate must be smooth and flat, clean and free of all loose dust and debris, fully dry, in a climate-controlled contained space, and within acceptable tolerances.

3.03 INSTALLATION

- A. Follow Division 01 relevant guidelines, and the latest edition of the manufacturer’s installation instructions.
- B. **Interface with Other Work:** If transitions are required to and/or from the specified entrance matting, contact Source Floor & Specialties for suitable transition material.

- 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. Schedule installation as close to the end of finishes as possible to reduce likelihood / damage (stains, paint drips, etc.) from other trades' work.
- D. **Sizes:** Unless otherwise indicated, provide each mat as a single unit for installation. When not logistically possible, use the largest components possible and seam together on-site for a finished single-unit mat. Larger mat sizes are more stable, more slip-resistant, and offer increased performance and dirt/water carrying capacity. Where possible, verify required sizes and proposed logo layout by field measurement and sketch before shop fabrication.
- E. **Accessory Selection:** Where indicated for surface-mounted applications, provide tapered vinyl moldings with flanges adhered to back of mat on all four sides with mitered corners.

3.04 CLEANING AND PROTECTION

- A. **General:** Clean up job site, including sweeping or dust mopping the floor to remove all dirt or grit, and put all waste in general contractor's dumpster. Follow overall cleaning guidelines described in Division 01. Refer to Manufacturer's Cleaning and Maintenance instructions.
- B. **Initial Maintenance:** Conduct a full initial maintenance following the latest edition of the manufacturer's maintenance instructions. Instruct Owner's personnel in proper maintenance procedures and provide copies of Manufacturer's Cleaning and Maintenance instructions.
- C. **Protection:** Cover and protect installed product and finished surfaces from damage during construction until acceptance.

3.05 CLOSEOUT ACTIVITIES

- A. Follow local / municipal requirements and Division 01 Section 01 76 00 – Protecting Installed Construction and Section 01 78 00 – Closeout Submittals requirements for these activities.

END OF SECTION

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