



matting / athletics / flooring

## 3M™ NOMAD™ HEAVY TRAFFIC SCRAPER MAT 8100 MASTER SPECIFICATION SECTION 124813 – ENTRANCE FLOOR MATS & FRAMES

### PART 1 - GENERAL

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#### 1.01 SUMMARY

- A. Section includes: Entrance floor mats & frames, including fibered roll entrance matting systems
- B. Related requirements:
  - 1. Drawings and General Provisions of the Contract (including General and Supplementary Conditions and Division 1 References Section)
  - 2. Section 03: Concrete (subfloors)
  - 3. Section 06: Wood (subfloors)
  - 4. Section 07: Thermal and moisture protection

#### 1.02 REFERENCES

- A. ASTM International.
  - 1. ASTM D 2859 Standard Test Method for Ignition Characteristics of Finished Textile Floor Covering Materials
  - 2. ASTM D149 Standard Test Method for Dielectric Breakdown Voltage and Dielectric Strength of Solid Electrical Insulating Materials at Commercial Power Frequencies
  - 3. ASTM E662 Standard Test Method for Specific Optical Density of Smoke Generated by Solid Materials
  - 4. ASTM D257 Standard Test Methods for DC Resistance or Conductance of Insulating Materials
- B. Other referenced documents
  - 1. Consumer Products Safety Commission (CPSC) FF 1-70: Pill Test
  - 2. Department of Commerce (DOC) FF 1-70: Pill Test
  - 3. AATCC: American Association of Textile Chemists and Colorists
  - 4. LEED-NC v. 3

#### 1.03 ADMINISTRATIVE REQUIREMENTS

- A. Coordination: Install entrance matting after finishing operations, including painting and ceiling operations, have been completed.
- b. Pre-installation Meetings: Meet to confirm project requirements, substrate conditions, manufacturer's installation instructions and warranty requirements in compliance with Division 1 requirements.

#### 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.
- C. Shop drawings: Submit shop drawings showing layout, profiles and product components.
- D. Submit selection and verification samples showing the required finishes, colors, designs, and textures for flooring, as well as applicable accessories such as nosing, frames, etc.
- E. Sustainable Design Submittals: For projects requiring LEED submittal based on LEED-NC version 3
  1. 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:
  1. Certified test reports showing compliance with specified performance characteristics and physical properties.
  2. Manufacturer's Installation Instructions.
- G. Closeout Submittals:
  1. Cleaning & Maintenance Data (Include methods for maintaining installed products and precautions against cleaning materials and methods detrimental to finishes and performance)
  2. Warranty.

## **1.05 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.

## **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 material -- including any adhesive and accessories -- in the original packaging (as delivered) in areas that are enclosed and weather tight with the permanent HVAC system set at a temperature of between 18°C and 26°C for a minimum of 48 hours prior to commencement of installation. In addition, comply with storage and handling requirements listed on product packaging, and described in the latest edition of the product's installation instructions
- 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.

## **PART 2 - PRODUCTS**

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### **2.01 ACCEPTABLE MANUFACTURER**

- A. Edgewood Matting Ltd. 18120 – 109 Ave Edmonton Alberta Canada T5S 2K2 T: 780-466-2084 F: 780-468-9104, email: [inquiries@edgewoodgroup.ca](mailto:inquiries@edgewoodgroup.ca), [www.edgewoodgroup.ca](http://www.edgewoodgroup.ca)

## 2.02 MATERIALS

A. Product: 3M™ Nomad™ Medium Traffic Scraper Matting 8100

Construction: Unbacked nonwoven continuous vinyl filaments  
Width: [3'] [4']  
Length: approximately 60'  
Thickness: 17.5mm (11/16")  
Weight: 4.46 kg/m<sup>2</sup> (131.54 ounces/square yard)  
Colors: [Black] [Blue][Brown] [Gray] [Green] [Red]

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

### Safety

Surface flammability ASTM D2859: Pass (equal to CPSC FF 1-70)

Smoke density ASTM E662: Passes

Flammability NFPA 253: > 0.7 watts/cm<sup>2</sup>

### Performance

Dielectric strength ASTM D149: 12 kV

Chemical resistance AATCC 134: resistant to most chemicals

Electrostatic propensity AATCC 134: step: 1 kV; scuff: 2.13 kV

Volume resistance ASTM D257: 7.2 x 10<sup>11</sup> ohms-cm

### LEED

MR Credit 5 Material must be manufactured within 500 of project location

## 2.03 PRODUCT SUBSTITUTIONS

A. Substitutions: No substitutions permitted.

## PART 3 – EXECUTION

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### 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. General: Strictly comply with Manufacturer's installation instructions and recommendations. Coordinate installation with adjacent work to ensure proper clearances and to prevent tripping hazards.

B. Sizes: 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 possible, verify sizes by field measurement before shop fabrication.

### 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

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