



3M™ Nomad™ Z-Web Extreme Traffic Scraper Matting 9100

Technical Data Sheet
April 2014

1) Product Description

The product is a durable, all-vinyl floor mat having an open, continuously patterned surface. Its open construction allows dirt and debris to fall through the mat for easy cleaning, while helping to prevent dirt from being tracked into a building.

2) Intended Use

For use in recessed wells or as an indoor or outdoor walk-off mat at building entrances.

3) Colors

Black, Gray, Brown

4) Physical Requirements

The product is made of vinyl nonwoven continuous filament bonded together to form a durable, resilient mat.

Property:

Typical Values:

Weight

ASTM D-418

15 lbs/yd² (8.2 kg/m²)

Thickness

ASTM D418-68

0.46 inches (11.7 mm)

Microbiological Properties

ASTM G-21-70

Passes – Inhibiting to fungal growth in the mat

Electrical Properties

AATCC-134

Static Propensity

1.2 kilovolts

Extended Use Temperature

-10F to 150F (-23C to 65C)





5) Installation, Seaming and Edging

Open the box and roll the mat out in the area to be covered and allow it to reach room temperature. If the mat is to be cut, see custom cutting instructions below. Install the mat with the flat side down. The Z-web extends above the straight rib on the top side. The top side is rougher in order to remove dirt and debris.

3M™ Nomad™ Extreme Traffic Scraper Matting 9100 can be used as an entry mat outdoors, indoors or in recessed mat wells. When used indoors the mat is not recommended for use over carpet because of the mat's open construction. For all entryway applications, place the matting so that all persons entering the building take several steps on it before proceeding into the building. 3M™ Nomad™ Scraper Matting 9100 is an excellent work area mat for Industrial applications.

Installation:

For best results follow these guidelines:

1. Unroll all the matting at or near the actual area in which it is to be used. Allow the mat to relax and come to room temperature (70 F, 21 C) for at least 2 hours. Unrolling the matting the night before an installation is preferred.
2. Install the mat with the flat side down. The Z-web extends above the straight rib on the top side. The top side is rougher in order to remove dirt and debris
3. Use a utility knife and a straight edge for cutting. Do not use scissors.
4. When moving the mat, do not stretch it.

Preparation for Recessed Well Installation

1. The material well must be clean with no build-up of dirt or other material on the edges, the bottom or the corners. A scraper may be necessary to clean the well. The mat well should have an even depth and a flat surface with no bumps or large ridges. Measure each side of the well to ensure the sides are straight and square.
2. A maximum well depth of 0.5 inches (13 mm) is recommended. Various materials, such as rubber and plywood, can be used to adjust the well depth.
3. Carefully measure the recessed well to determine which direction to place the matting for minimum cutting and the least amount of waste. If possible avoid very small pieces.
4. Determine which side of the matting is the top side. The roughest edge should be exposed to remove dirt.

Custom Cutting for Recessed Well Installation

1. Place the relaxed mat flat side down against one edge of the well without stretching it. Force as much matting as possible into the well. Use of a foot to force the mat into the well is recommended.
2. Place sections into the well until the well is filled.
3. Allow 1/8" (3.5 mm) of extra material per 6 feet (2.0m). Cut the last edge using a utility knife and a straight edge. Cut the mat while it is in the well to minimize movement. Force the extra material into the well. If it buckles you may need to cut off a small portion on the edge.
4. It may be necessary to cut the last section of matting to the exact width required. To do this, measure and mark the matting. Add an additional "row" of matting elements to the measurement and cut at that point. Force the last piece of matting into the well.



Custom Cutting for Installation over Flat Surface

1. If the mat is to be placed on a flat surface, prepare the matting and measure it after it is allowed to relax and come to room temperature. Cut it using a utility knife and a straight edge.
2. If several pieces are to be placed side by side, prepare all the Matting in the same manner. Measure and cut the matting after it is allowed to relax and has come to room temperature. Be careful not to stretch the matting while cutting.

Seaming

3M™ Nomad™ Z-Web Extreme Traffic Scraper Matting 9100 can be seamed together to make mats wider or longer than the standard sizes.

Materials needed for seaming:

3M™ Matting Seaming Tape (kit or roll)

3M™ Matting Adhesive (one 3-ounce tube will seam 10 lineal feet (3.0m) of matting)

For best results follow these guidelines:

- a. Before seaming, be certain that the matting is RELAXED AND NOT STRETCHED. See Installation guidelines.
- b. Custom cut and fit into recessed well before seaming.
- c. Use pieces from the same roll to assure color shade is the same.
- d. Maximum recommended mat size is 60 sq. ft. (5.5 m²). You may want to use smaller mats for ease of handling and maintenance.

Seaming Instructions

1. Place pieces of matting to be seamed side by side on a clean surface. Be sure flat side is down on both pieces to be seamed.
2. Unroll seaming tape between the two pieces of matting that are to be joined.
3. Position the two pieces of matting on the seaming tape so that the edge of each piece covers half the width of the tape. Be sure the two pieces of matting touch at the center of the tape but do not overlap or buckle.
4. Fold back the edge of one piece of the matting along the full length of the seam.
5. When applying adhesive work rapidly. Adhesive may cause wrinkling of the seaming tape if the matting is not joined within 5 minutes of applying the adhesive. Apply adhesive in a continuous "zigzag" pattern staying 1/4" (6 mm) from the outside edge of the exposed half of the seaming tape.
6. Return the folded edge of the matting to the original position and apply moderate pressure to bond the adhesive.
7. Fold back the other piece of matting along the entire length of the seam.
8. Apply 2 additional beads of adhesive. The first bead should be applied along the joint of the seaming tape and bonded matting material. The second bead should be applied in a "zigzag" pattern 1/4" (6mm) from the outside of the exposed half of the seaming tape.
9. Return the folded back edge of the matting to the original position and press firmly. Push both pieces of matting together to help assure a close bond.
10. Place a weight, such as a board, along the full length of the seam to assure a maximum strength bond. Allow to dry at least eight hours before placing matting into service.



Applying Matting Edging

Matting edging can be easily applied to 3M™ Nomad™ Z-Web Extreme Traffic Scraper Matting 9100.

Tools and materials needed for Matting Edging:

1. Utility knife
2. Straight edge
3. 3M™ Matting Edging (kit or roll)
4. 3M™ Matting Adhesive (a 3-ounce tube will apply about 15 feet or 4.5m)

For best results for applying edging, follow these guidelines:

1. Before applying edging, be certain that the matting and edging are relaxed and not stretched. Unroll the matting and edging and allow them to relax and come to room temperature. Do not stretch matting when applying edging. See installation guidelines.
2. Be certain sides to be edged are straight. Trim edges with a utility knife (not scissors) and a straight edge if necessary. See Custom Cutting instructions.

Edging Instructions

1. Cut length of edging to same length as edge of matting.
2. Place edging flat on the floor, grooved side up.
3. Apply 2 beads of adhesive, one in a straight pattern following the inside edge and the other in a "zigzag" pattern staying 1/4" (6 mm) from edge.
4. Place bottom side of the matting edge on top of the edging flap containing adhesive and apply moderate pressure.
5. Place a weight, such as a board along the full length of the edging to assure a maximum strength bond. Allow to dry at least 8 hours before placing matting into service.

6) Cleaning and Maintenance

3M™ Nomad™ Z-Web Extreme Traffic Scraper Matting 9100 removes and hides large amounts of dirt. This dirt should be removed from beneath the mat on a regular basis. Do not use 3M™ Nomad™ Scraper Matting 9100 around chlorinated or hydrocarbon solvents, for example methylene chloride or mineral spirits. Additionally, these solvents should not be used to clean 3M™ Nomad™ Scraper Matting 9100.

Regular Maintenance

1. Remove/sweep large debris from top of mat. Remove any debris caught between ridges.
2. Roll back matting sections half-way toward the center of the well. Thoroughly remove all dirt and debris which has been trapped in the well. Put matting back.
3. Repeat above at the opposite end of the well.
4. Damp mop the surface of the mat with a general purpose cleaner.

Restorative Maintenance:

1. Remove matting from well.
2. Carefully hang or drape mat over a rounded (not sharp) surface.
3. Scrub the mat with a general purpose cleaner such as 3M™ General Purpose Cleaner and rinse with water using a hose or pressure washer.
4. Be sure recessed well has been thoroughly cleaned before returning mat to service.



3M™ Nomad™ and 3M™ Safety-Walk™ vinyl matting has been certified by the National Floor Safety Institute (NFSI) as providing a "high traction" backing. NFSI tested these 3M™ mats using its NFSI 101-C Test Method for Measuring Dry Transitional Coefficient of Friction (TCOF) of Floor Mat Backing Materials and found each mat to have a TCOF of greater than 0.05. According to NFSI, mats lacking the high-traction backing offered by 3M™ matting are more prone to movement, which can increase the risk of migration, buckling, and curling, which, in turn, can contribute to slip, trips, and falls.

Important Notice:

Product Use: Many factors beyond 3M's control and uniquely within user's knowledge and control can affect the performance of 3M™ Nomad™ Entrance Matting System products, including the type and preparation of the surface, and the conditions of use. User is solely responsible for evaluating the product and determining whether it is fit for user's particular purpose and adequately maintained.

Warranty, Limited Remedy and Disclaimer: 3M warrants that its 3M™ Nomad™ Entrance Matting System products, if used as recommended, will be free from defects in material and manufacture for the period of one year from the date of purchase from 3M or 3M's authorized distributor. 3M MAKES NO OTHER EXPRESS OR IMPLIED WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. If a 3M™ Nomad™ Entrance Matting System product does not conform to this warranty, the sole and exclusive remedy is, at 3M's option, replacement of the 3M product or refund of the purchase price. This warranty does not cover product failure arising out of product abuse or misuse, or the failure to properly install or maintain the product.

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