

Technical Data/ Product Specifications

3M **Safety-Walk™** Cushion Matting 3270 and 3270E

1.0 Product Description The product is a nonwoven floor matting made from continuous vinyl filaments bonded to a textured vinyl solid top surface. The mat is suitable for heavy foot traffic in dry areas and has moderate chemical resistance. The mat provides a comfortable surface for standing or walking.

2.0 Intended Use For use as a fatigue-resistant mat in areas where workers are standing or walking. For use in factory assembly, production areas, or any other areas where workers stand or walk with limited chemical exposures. The mat is intended to reduce muscle discomfort and body aches due to fatigue in such areas.

3.0 Standard Sizes

Widths:
3 ft. and 4 ft. (0.9m and 1.2m)

Lengths:
2 ft to 30 ft. (0.6m to 9.1m) in 1-foot increments

Edging:
3270 without edging
3270E with 4-sided black integral edging
Other edging options available by special request.

4.0 Colors

<u>Matting:</u>	<u>Edging:</u>
Black	Black

5.0 Requirements

Detailed Requirements:

Property	Typical
Weight (minimum) ASTM D-418-68 Sec. 9-16	8.33 lb/yd ² (4.5 kg/m ²)
Thickness (minimum)* ASTM D-418-68 Sect. 35-1	0.55 inches (13.97 mm)

* Product may be compressed in package. Thickness is recovered loft.

**5.0 Requirements
(continued)**

Noise Reduction Coefficient, NRC ASTM D-423-2001	10%
Coefficient of Friction ASTM C 1028	
- Dry	0.81
- Wet	0.57
Flammability DOC FF 1-70 (Pill Test)	Passes
ASTM D 2859	Passes
NFPA 253	Class I
ASTM E-648 (Flooring Radiant) Panel Test*	0.75 watts/cm ² (no ignition)
Microbiological Properties ASTM-G-21-90 Inhibiting to fungal growth	Passes
* Recommended critical average radiant flux to be greater than 0.25 for residential and commercial use, greater than 0.5 for institutional applications.	
Electrical Properties Electrostatic Propensity Neolite Step	+0.50 KV
Neolite Scuff	+1.13 KV
DC Insulation Resistance ASTM D-257	3.47 X 10 ⁹ ohms
Dielectric Breakdown (ASTM D-149)	24.00 KV
Volume Resistivity (ASTM D-257)	6.38 x 10 ¹⁰
Chemical Resistance*	
* All test 7 days @ 72°F (22°C)	
Water	Excellent*
10% Salt Water	Excellent
Chlorinated Water	Excellent
Tri-Sodium Phosphate	Excellent
Acid chrome Plating Solution	Poor
1% Detergent Solution	Excellent
Glycerine	Excellent
Peanut Oil	Good
24% Sulfuric Acid	Excellent
10% Hydrochloric Acid	Excellent
Ethyl Alcohol	Good
Sodium Hydroxide	Excellent
Hexane	Good
Methylene Chloride (Paint Remover)	Poor
Mineral Spirits	Good
Gasoline	Good

**5.0 Requirements
(continued)**

Motor Oil	Good
Diesel Fuel	Good
Brake Fluid	Good
Anti-Freeze	Excellent
Auto Transmission Fluid	Good
3M Industrial Degreaser (Twist ‘n Fill #26)	Excellent

*** Excellent** – No observed effect on product
Good – Product stiffens or discolors slightly
Poor – Product becomes unsuitable for use. 3M™ Safety-Walk™ Cushion Matting 3270 and 3270E should not be used where it will regularly contact these chemicals.

6.0 Packaging and Marking

Packaging:	Marking:
Pre-Cut Mats – one per carton Rolls – one per carton	Each carton shall be marked with product name, size, color and manufacturer’s trade name.

7.0 Weight and Cube per Case

<u>Size</u>	<u>Approximate Weight</u>	<u>Cube</u>
3 ft. x 5 ft.	22 lb.	1.208 cu. ft.
4 ft. x 6 ft.	31 lb.	1.587 cu. ft.
3 ft. x 20 ft.	73 lb.	3.978 cu. ft.
4 ft. x 20 ft.	95 lb.	5.581 cu. ft.

8.0 Installation and Cleaning Instructions

8.1 Installation Instructions

3M™ Safety-Walk™ Cushion Matting 3270 and 3270E are designed to be installed with the continuous solid side up; this side will be on the outside of the roll when received.

Custom Cutting:

The 3M™ Safety-Walk™ Cushion Matting 3270 and 3270E can be easily custom cut without edges fraying. Length and width dimensions may change during use. Wall-to-wall installations are not recommended.

Tools needed:

- Utility knife
- Straight edge, 3-4 feet (0.9m – 1.2m) long

- If matting is to be cut to close specifications, be certain it is relaxed and not stretched. Unroll matting and allow to lie undisturbed for 24 hours at room temperature.
- Use a utility knife and straight edge for cutting.. Do not use scissors.
- If it is necessary to move matting after cutting, roll it loosely to avoid stretching.

8.2 Seaming

The 3M™ Safety-Walk™ Cushion Matting 3270 and 3270E can be seamed together to make mats wider or longer than standard sizes.

Materials needed:

3M™ Matting Seaming Tape (kit or roll)

3M™ Matting Adhesive (one 3-ounce [88 ml] tube of adhesive will seam 15 linear feet [4.5 m] of matting).

- Before seaming, be certain that the matting is relaxed and not stretched. Unroll matting and allow to lie undisturbed for 24 hours at room temperature. Avoid stretching or pulling on mat when seaming.
 - Use pieces from the same roll to assure that color shade and texture are the same.
1. Place pieces of matting to be seamed side by side on a clean surface.
 2. Unroll 3M Matting Seaming Tape between the two pieces of matting to be joined. Cut tape to length.
 3. Position the pieces of matting on seaming tape so that each piece's edge covers half the width of tape. Be sure the pieces of matting touch at the tape center but do not overlap or buckle.
 4. Fold back one piece of matting along the full seam length.
 5. Apply a continuous wavy bead of adhesive $\frac{1}{4}$ inch (6mm) from the outside edge of the exposed half of seaming tape.
NOTE: When applying adhesive, work rapidly. Adhesive may cause wrinkling of seaming tape if matting is not joined within ten minutes.
 6. Return folded edge of matting to its original position and apply moderate pressure to bond adhesive.
 7. Fold back the second piece of matting along the full length of seam.
 8. Apply two additional beads of adhesive; the first along joint of seaming tape and first piece of matting, and the second in a wavy pattern $\frac{1}{4}$ inch (6mm) from the outside edge of the exposed half of seaming tape.
 9. Return folded edge of the second piece of matting back to its original position and press firmly. At the same time, gently push both pieces of matting together to eliminate any gaps.
 10. Place a weight, such as a board, along the full length of seam to maintain pressure on the bond. Allow to dry undisturbed for at least 8 hours before placing it into service.

8.3 Applying Matting Edge

Beveled edging can be easily applied to the 3M™ Safety-Walk™ Cushion Matting 3270 and 3270E to form a tapered edge.

Tools and materials needed:

Utility knife

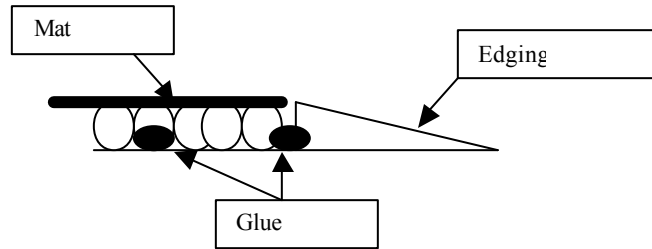
Straight edge, 3-4 feet long (0.9m – 1.2 meters)

3M Matting High Profile Edging

3M Matting Adhesive (one 3-ounce [88 ml] tube of adhesive will adhesive apply approximately 15 linear feet [4.5m] of edging).

Before applying edging ensure that matting and edging are relaxed and not stretched. Unroll matting and edging and allow to lie undisturbed for 24 hours at room temperature. Do not stretch or pull on matting when applying edging.

8.3 Applying Matting Edge (continued)



When gluing on edging, solid top of mat faces up and coils face down as shown in the figure above. Recommended maximum glued on edge length is 12 foot (3.6 meters) sections.

1. Arrange mat on floor so that side to be edged are straight. Trim edges with a utility knife (not scissors) and a straight edge if necessary (see Custom Cutting).
2. Cut a piece of edging the same length as the edge of mat.
3. Place edging flat on the floor, grooved side up.
4. Apply two beads of adhesive liberally to the top of edging groove (as shown above).
5. Place edge of mat on top of edging groove containing adhesive. Gently work mat snugly into the corner of edging groove to ensure a good fit.
6. Place a weight, such as a board, along the full length of edging to maintain pressure on the bond. Allow to dry undisturbed for at least 8 hours before placing it into service.

8.4 Cleaning

Daily Maintenance

- Shake mat vigorously to remove debris.
- Clean up debris under and around mat and place mat, on a clean dry floor.
- Damp mop top surface of mat and return to service.
- Make sure mat is lying flat.

Periodic Maintenance

- Remove debris (see daily maintenance).
- For difficult to remove debris, spray or mop on a general purpose cleaner or non-chlorinated degreaser prior to cleaning.
- Scrub solid top surface of mat with a deck brush.
- Rinse off.
- Allow to dry before placing back in service.
- Make sure mat is lying flat.

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Important Notice:

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3M

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