Technical Data/ Product Specifications

3M Safety-WalkTM Cushion Matting 5270

walking, such as factory assembly and production areas inclu areas exposed to grease and/or oil. The mat is intended to red	The product is a nonwoven floor matting made from continuous vinyl filaments with a flat solid top surface. The mat is suitable for heavy duty foot traffic in dry or wet areas and is motor oil resistant. The mat provides a comfortable surface for standing or walking.		
	For use as an anti-fatigue mat in areas where workers are standing or walking, such as factory assembly and production areas including areas exposed to grease and/or oil. 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 5270 without edging			
5270E with black integral edging on lengths and black nosing on 3 foot and 4 foot widths	k		
5270YE with yellow integral edging on lengths and bla nosing on 3 foot and 4 foot widths	ıck		
cost	 Partial edged material is available as a special request and 		
4.0 Colors <u>Matting:</u> <u>Edging:</u>			
BlackBlack, YellowOther colors as special requ	est		

Requirements	Detailed Requirements:	ailed Requirements:		
	Property Weight (minimum) ASTM D-418-68 Sec. 9-16	$\frac{\text{Typical Values}}{10.0 \text{ lb/yd}^2 (4.5 \text{ kg/m}^2)}$		
	Thickness (minimum)* ASTM D-418-68 Sect. 35-1	0.65 inches (16.5mm)		
	 Product may be compressed in package. Thickness is recovered loft. 			
	Noise Reduction Coefficient, NRF ASTM D-423-90A	15%		
	Coefficient of Friction Mil-D1795D (sh) - Dry - Oily	1.60 0.44		
	Ony	0.11		
	Flammability DOC FF 1-70 (Pill Test) ASTM E-648 (Flooring Radiant) Panel Test*	Passes 0.75 watts/cm ² (no ignition)		
	* 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 DC Insulation Resistance ASTM D-257 Dielectric strength (ASTM D-149) Volume Resistivity (ASTM D-257)	2.0-2.3 x 10 ¹⁰ ohms 19.9-20.3 kilovolts 2.0 x 10 ¹⁰ ohms-cm		
	Chemical Resistance* * All test 7 days @ 72°F (22°C) unless otherwise noted			
	Water 10% Salt Water Chlorinated Water Tri-Sodium Phosphate Acid chrome Plating Solution Lithographic Solution (3M-K- 11)	Excellent* Excellent Excellent Good Excellent		
	1% Detergent Solution Glycerine Peanut Oil	Excellent Excellent Excellent		

5.0

5.0	Requirements (continued)	24% Sulfuric Acid 10% Hydrochloric Acid Ethyl Alcohol Sodium Hydroxide Ammonium Persulfate Ferric Chloride Hexane Methylene Chloride (Paint Remover) Mineral Spirits Gasoline Motor Oil Diesel Fuel	Excellent Excellent Excellent Excellent Excellent Excellent Good Poor Good Excellent Good * Excellent – No observed effect on product Good – Product stiffens or discolors slightly Poor – Product becomes unsuitable for use. $3M^{TM}$ Safety-Walk TM Cushion Matting 5270 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	Installation, Seaming, and Edging	3M [™] Safety-Walk [™] Cushion Matting 5270 is designed to be installed with the continuous solid side up; this side will be on the inside of the roll when received.		
		Custom Cutting		
		The 3M [™] Safety-Walk [™] Cushion Matting 5270 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. 		

The 3M[™]Safety-Walk[™] Cushion Matting 5270 can be seamed together to make mats wider or longer than standard sizes.

7.0	Installation,	Materials needed:	
Seaming, and Edging		3M [™] Matting Seaming Tape (kit or roll)	
	(continued)	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 ¼ 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.
- 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 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.

Applying Matting Edging

Beveled edging can be easily applied to the 3MTMSafety-WalkTM Cushion Matting 5270 to form a tapered edge.

Tools and materials needed:

- Utility knife
- Straight edge, 3-4 feet long (0.9m 1.2 meters)
- 3MTM 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 no stretch or pull on matting when applying edging.

7.0	Installation, Seaming, and Edging (continued)	 Apply edging to opposite side of matting where most people will walk. Recommended maximum edge length is 12 feet (3.6 meters) 1. Arrange mat on floor so that side to be edged are straight. Trir 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. 5. Place edge of mat on top of edging groove containing adhesive Gently work mat snuggly 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 fo at least 8 hours before placing it into service. 		2 feet (3.6 meters). d are straight. Trim a straight edge if e edge of mat. up. top of edging containing adhesive. edging groove to all length of edging dry undisturbed for
8.0	Cleaning and Maintenance	 at least 8 nours before placing it into service. Daily Maintenance Shake mat vigorously to remove debris. Clean up debris under and around mat and place mat, on a cleadry floor. Damp mop top surface of mat and return to service. Periodic Maintenance Remove debris (see daily maintenance). For difficult to remove oil, grease, and/or debris, spray or mo on a general purpose cleaner or non-chlorinated degreaser prit to cleaning. Scrub solid top surface of mat with a deck brush. Rinse off. Allow to dry before placing back in service. 		service. ebris, spray or mop ated degreaser prior rush.
9.0	Weight and Cube per Case	Size	Approximate <u>Weight</u>	<u>Cube</u>

3 ft. x 5 ft. 4 ft. x 6 ft. 3 ft. x 20 ft. 4 ft. x 20 ft. 1.208 cu. ft. 1.587 cu. ft. 3.978 cu. ft. 5.581 cu. ft.

22 lb. 31 lb. 73 lb. 95 lb.

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Important Notice:

This flyer is intended to be an introductory summary. The information provided is based upon typical conditions and is believed to be reliable; however, due to the wide variety of intervening factors 3M does not warrant that the results will necessarily be obtained. All details concerning product specifications and terms of sale are available from 3M.

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