



Safety-Walk™ Cushion Matting 3270 - 3270E

Technical Data

TD 495 - Issue 3- Date: May 05

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Description:

3M™ Safety-Walk™ Cushion Matting 3270 - 3270E is an anti-fatigue matting made from continuous coiled vinyl filaments bonded to a textured vinyl solid top surface. The product is oil resistant and suitable for heavy foot traffic in dry areas and has moderate chemical resistance. The mat provides a comfortable surface for standing or walking.

Product positioning:

For use as an anti-fatigue mat in dry areas where workers are standing or walking. For use in factory assembly, production areas, or any other area 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.

Special Features:

- Special vinyl construction for comfort, durability and consistent performance in time
- Flat top surface for easy cleaning and cart crossing
- Anti-slip surface to provide safety
- Oil and grease resistant
- Available with 4-sided integral edging (3270E)
- Available in customized length to adapt to all applications.
- Silicon not intentionally added

Color of Matting and Edging : Black

References:

3270: without edging

3270E: with integral edging on four sides

Standard sizes:

Available for 3270E:
0,91 x 1,52m
0,91 x 3,05m
0,91 x 6,10m

Non-standard sizes (available upon request):

Available for 3270 & 270E:

2 product widths: 0,91 and 1,22m

Cut-to-size length from 0,61m to 9,14m in 0,30m increments.

Packaging and Marking:

- One mat per carton.
- Each carton is marked with product name, size, color and manufacturer's trade name.

Installation & Cleaning Instructions:

See detailed instructions (next pages)

Product requirements:

Property Test method	Value (Typical)
Thickness (minimum) *: ASTM D418-68 Sec. 9-16	14 mm
Weight (minimum): ASTM D418-68 Sec.35-1	4.5 kg/m ²
Flammability: • DOC-FF-1-70 (pill test) • ASTM D 2859 • NFPA 253 • ASTM E 648 (Flooring radiant panel test) **	Passes Passes Class I 0.75 W/cm ² (no ignition)
Microbial Properties: ASTM-G-21-96 Inhibiting to fungal growth	Passes
Electrical Properties: Electrostatic Propensity Neolite Step Neolite Suff DC Insulation resistance ASTM D 257: Dielectric strength ASTM D 149: Volume Resistivity ASTM D 257:	+0.5 KV +1.13 KV 3.47 x 10 ⁹ ohms 24 KV 6.38 x 10 ¹⁰ ohms/cm
Noise Reduction Coefficient, NRC: ASTM D 423-2001	10%
Maximum Service Temperature:	50°C
Coefficient of Friction ASTM C 1028	
- Dry	0.81
- Wet	0.57

* Product may be compressed in package.

Thickness is recovered loft

** Recommended critical average radiant flux to be greater than 0.25 for residential and

commercial use, greater than 0.5 for institutional applications.

Resistance to chemicals:

(Complete immersion for 7 days at 22°C)

Solution	Value ↑
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	Poor
Mineral spirits	Good
Gasoline	Good
Motor oil	Good
Diesel fuel	Good
Brake Fluid	Good
Anti-Freeze	Good
Auto-Transmission Fluid	Good
3M Industrial Degreaser	Excellent

↑ Excellent – No observed effect on product
Good – Product stiffens or discolors slightly
Poor – Product becomes unsuitable for use.

Product disposal:

Post consumer waste can be disposed of in appropriate containers or/and be incinerated.

The European directive waste disposal code is 20-01-39 for plastic material. Refer to your local waste handling procedure for potential recycling.

Origin of product: made in USA in an ISO 9002 certified plant.

Source of supply: 3M France.





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Installation:

Installation preparation:

Note: before placing mat into service, allow it to lie flat for at least 24 hours at a minimum temperature of 20°C. If any edge curl is noticeable after 24 hours, roll up mat opposite the curl and leave it rolled up for one hour before installation. Do not install mat until it lies flat.

1. Thoroughly clean floor area where the mat will be installed. Remove all grease, oil, water, debris, etc. Use a cleaning chemical suitable for the type of soil condition.
2. Allow cleaned floor to dry before installing mat.

Mat installation:

Mats # 3270 can be installed with either side facing up. Mat # 3270 E should be used with the flatter side on the top. This side will be on the outside of the roll when received.

Custom Cutting:

The mats can be easily custom cut without edge fraying. Length and width dimensions may change during use. Wall-to-wall installations are not recommended.

Tools needed:

- Utility knife
 - Straight edge (1.2 m long)
1. If matting is to be cut to close specifications, be certain it is relaxed and not stretched. Unroll matting and allow lying undisturbed for 24 hours at room temperature.
 2. Use a utility knife and straight edge for cutting. Do not use scissors.
 3. If it is necessary to move matting after cutting, roll it loosely to avoid stretching.

Seaming:

The mats can be seamed together to make mats wider or longer than standard sizes.

Material needed:

- 3M Matting seaming tape
- 3M Matting Adhesive
(1 tube of adhesive will seam 4.5m linear meter of matting)

Before seaming, be certain that the matting is relaxed and not stretched. Unroll matting and allow lying 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 seaming tape between the two pieces 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 the 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 (6mm wide) 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 10 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 (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 gap.
10. Place a weight, such as a board, along the full length of seam to maintain pressure on the bond. Allow drying undisturbed for at least 8 hours before placing the mat into service.

Applying Matting Edging:

Bevelled edging can be easily applied to the mats to form a tapered edge.

Tools and materials needed:

- Utility knife
- Straight edge (1.2 m)
- 3M Matting High Profile Edging
- 3M Matting Adhesive
(1 tube of adhesive will adhesive apply approximately 4.5 linear meter 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.

Apply edging to opposite ends of matting where most people will walk. Recommended maximum edge length is 3.6 meters.

1. Arrange mat on floor so that sides to be edged are straight. Trim edges with a utility knife (not scissors) and a straight edge if necessary.



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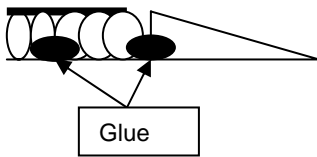
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Installation (next):

Applying Matting Edging (next):

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 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 drying undisturbed for at least 8 hours before placing it into service.



SW3270(E) Stay in place solutions:

As SW3270(E) is lighter than SW5270, it may crimp on floor with time or traffic. 2 solutions are available to prevent SW3270(E) from moving:

- **Stay in Place Industrial Matting tape 200:**

Post-structured PE tape. To be applied in middle of mat and on clean, dry and even floor without heavy cart traffic.

More information is available in its technical Data Sheet TD 500.

- **Industrial tape 5313:**

Tacky solid tape in extruded synthetic rubber.

To be applied on clean and degreased floors. Especially adapted for uneven surfaces. Excellence resistance to water and weathering but poor resistance to oil and fuel.

More information is available in its Technical Data Sheet 5313.

Tools and material needed to apply these tapes correctly on floor:

- **3M Industrial cleaner** to degrease and remove adhesive residues from floor
- **Scissors or cutting blade**
- **Wipe such as 3M High Performance wipe 2010 or 2011**
- **Rubber Hand roller**
- **3M Masking tape to visualize areas of mats installations**

Pictures of installations:

1-identify area of application of SW3270E:



2- spray industrial cleaner on identified area:



3- wipe residues of grease and chemical:



4- apply tape and press with rubber hand roller:



5- remove protective liner and recover with SW3270(E):



6-Do the same for length:





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Cleaning Instructions:

Cleaning instructions:

It is important to follow these directions carefully to achieve optimum mat performance.

Daily maintenance:

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

Periodic maintenance:

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

Important:

1. Make sure both sides of mat and the floor are completely dry before replacing the mat on the floor.
2. The cleanliness of the floor and the bottom side of the mat are critical to prevent mat movement.
3. The frequency of cleaning is dependent upon where the mat is used.
4. Periodically inspect both sides of the mat and the area underneath the mat for grease, water or other debris and residues, which could affect mat performance.
5. Do not store mat folded up.
6. Do not use chlorinated solvents or cleaners for cleaning.
7. Do not submerge the mat in solutions containing high concentrations of alcohol (> 40 %).
8. Do not dry mat over objects which might cause the mat to deform

