



Safety-Walk™ Cushion Matting 5270 - 5270E

Technical Data

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Description:

3M™ Safety-Walk™ Cushion Matting 5270 - 5270E is an antifatigue matting made from continuous coiled vinyl filaments bonded to a textured vinyl solid top surface. The product is oil resistant and suitable for heavy duty foot traffic in mostly dry areas and provides a comfortable surface for standing or walking.

Product positioning:

For use as an anti-fatigue mat in mostly dry areas where workers are standing or walking: assembly lines, productions areas, other areas exposed to grease and/or oils and where cart traffic is present. 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 (5270E)
- Available in customised length to adapt to all applications.

Color: Black

References:

5270: without edging

5270E: with integral edging on four sides

Standard sizes:

Available for 5270E:

0,61 x 0,91m 0,91 x 1,52m

1,22 x 1,83m 0,91 x 3,05m

0,91 x 6,10m

Non standard sizes (available upon request):

Available for 5270 & 5270E:

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 description and manufacturer's trade name.

Installation & Cleaning Instructions:

See detailed instructions (next pages)

Product requirements:

Property Test method	Value (Typical)
Thickness (average) ①: ASTM D418-68	16.0 mm
Weight (average): ASTM D418-68	4.8 kg/m ²
Flammability: • DOC-FF-1-70 (pill test) • ASTM E 648 (Flooring radiant panel test) NFP 92506 (FR)	Passes 0.25 W/cm ² M3
Microbial Properties: ASTM-G-21-96	Inhibiting to fungal growth
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 19-20.3 KV 2.0 x 10 ¹⁰ ohms/cm
Noise Reduction Coefficient, NRF: ASTM D 423-90A	15%
Maximum Service Temperature:	50°C
Coefficient of Friction MIL D 17951 D (sh): - Dry - Oily	1.60 0.44

① Product may be compressed in package. Thickness is recovered loft.

Resistance to chemicals:

(Complete immersion for 7 days at 22°C)

Solution	Value ②
Water	Excellent
10% Salt water	Excellent
Chlorinated water	Excellent
Tri-Sodium Phosphate	Excellent
Acid chrome Plating solution	Good
Lithographic Solution (3M-K-11)	Excellent
1% Detergent Solution	Excellent
Glycerine	Excellent
Peanut oil	Excellent
24% Sulfuric Acid	Excellent
10% Hydrochloric acid	Excellent
Ethyl Alcohol	Excellent
Sodium Hydroxide	Excellent
Ammonium Persulfate	Excellent
Ferric Chloride	Excellent
Hexane	Good
Methylene Chloride	Poor
Mineral spirits	Good
Gasoline	Good
Motor oil	Excellent
Diesel fuel	Good

② 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 and cleaning instructions:

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 # 5270 can be installed with either side facing up. Mat # 5270 E should be used with the flatter side on the top. This side will be on the inside 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 to lie 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

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 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 to dry undisturbed for at least 8 hours before placing the mat into service.

Applying Matting Edging:

Beveled 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

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.





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Installation and cleaning instructions:

Applying Matting Edging: (cont'd)

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

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.

Periodic maintenance:

1. Remove debris (see daily maintenance).
2. For difficult to remove oil, grease, and/or debris, spray or mop on a general purpose cleaner or non-chlorinated degreaser prior to cleaning.
3. Scrub solid top surface with a deckbrush.
4. Rinse off.
5. Allow to dry before placing back in service.

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.

