

Technical Data/ Product Specifications



Safety-Walk™ Cushion Matting 5250

1.0 Product Description

The product is a nonwoven floor matting made from continuous vinyl filaments with a flat open 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.

2.0 Intended Use

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

5250 without edging

5250E with black integral edging on lengths and black nosing on 3 foot and 4 foot widths

5250YE with yellow integral edging on lengths and black nosing on 3 foot and 4 foot widths

- Glue-on edging is available in black and yellow at additional cost
- Partial edged material is available as a special request and additional cost

4.0 Colors

Matting:

Black

Edging:

Black, Yellow

Other colors as special request

5.0 Requirements

Detailed Requirements:

| <u>Property</u> | <u>Typical Values</u> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|
| Weight (minimum) ASTM D-418-68 Sec. 9-16 | 8.2 lb/yd ² (4.5 kg/m ²) |
| Thickness (minimum)* ASTM D-418-68 Sect. 35-1 | 0.5 inches (12mm) |
| * Product may be compressed in package. Thickness is recovered loft. | |
| Noise Reduction Coefficient, NRF ASTM D-423-90A | 5% |
| Coefficient of Friction Mil-D1795D (sh) | |
| - Dry | 1.40 |
| - Oily | 0.28 |
| 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 | 2.0-2.3 x 10 ¹⁰ ohms |
| Dielectric strength (ASTM D-149) | 19.9-20.3 kilovolts |
| Volume Resistivity (ASTM D-257) | 2.0 x 10 ¹⁰ ohms-cm |
| Chemical Resistance* | |
| * All test 7 days @ 72°F (22°C) unless otherwise noted | |
| 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 |

7.0 Installation, Seaming, and Edging (continued)

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 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.
 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 ¼ 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 3M™Safety-Walk™ Cushion Matting 5250 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 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. 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.
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.

8.0 Cleaning and Maintenance

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.

Periodic Maintenance

- Remove debris (see daily maintenance).
- For difficult to remove oil, grease, and/or 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.

9.0 Weight and Cube per Case

| <u>Size</u> | <u>Approximate Weight</u> | <u>Cube</u> |
|----------------|---------------------------|---------------|
| 3 ft. x 5 ft. | 16 lb. | 1.208 cu. ft. |
| 4 ft. x 6 ft. | 23 lb. | 1.587 cu. ft. |
| 3 ft. x 20 ft. | 60 lb. | 3.978 cu. ft. |
| 4 ft. x 20 ft. | 80 lb. | 5.581 cu. ft. |

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3M

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