

Product Description and Specifications

3form Sola Felt is made using our PET technology and 50% post-consumer recycled PET. Sola Felt is designed to be attractive, environmentally sound, and embedded with acoustic properties.

Our expertise in Polyethylene Terephthalate (PET) grew from a desire to create high-design solutions, without sacrificing performance and sustainability. PET, commonly found in water bottles, is recycled into pellets that are then extruded into thin, soft fibers. Layers of these fibers are then pressed together to create a sheet of sound absorbing Sola Felt. Absorptive materials soften reverberation and dampen sound energy in a space. Absorption is ideal for loud conference rooms or open spaces where people congregate.

Features and Benefits

- Various color options
- Noise Reduction Coefficient (NRC) up to 1.10
- Easy to specify
- Easy to install
- Cost-effective decorative feature

Available Finishes

Sola Felt can be specified in a variety of color options.

See 3form's Sola Felt colors at:

<https://www.3-form.com/materials/sola-felt>

Panel Sizes and Tolerances

Sola Felt is available in three standard thicknesses - 3/16", 1/4", and 3/8". Additionally, custom thicknesses of Sola Felt can be achieved for larger projects.

Nominal Thickness Gauge	Minimum Allowance Gauge	Maximum Allowance Gauge
3/16" (4.7mm)	0.168" (4.2mm)	0.206" (5.3mm)
1/4" (6.3mm)	0.225" (5.7mm)	0.275" (7.0mm)
3/8" (9.5mm)	0.337" (8.5mm)	0.413" (10.5mm)

Sheet tolerance readings are based on an average of several measurements along both long edges of each panel. These measurements are taken 2-3 inches (50-75 mm) from the edges of the panel.

Panel Weight

Thickness	Weight Flux
3/16" (4.7mm)	0.22 lb/ft ² (1.1 kg/m ²)
1/4" (6.3mm)	0.30 lb/ft ² (1.5 kg/m ²)
3/8" (9.5mm)	0.39 lb/ft ² (1.9 kg/m ²)

Flammability and Smoke Test Results

Building Code Approvals

Sola Felt has been independently tested and meet the criteria for approved interior finishes as described in the 2018 International Building Code®.

Test	Sola Felt	Result
ASTM E84 Flame Spread, 3/16" thickness Smoke Generated	0 70	Class A: 0-25 <450
ASTM E84 Flame Spread, 1/4" thickness Smoke Generated	10 105	Class A: 0-25 <450
ASTM E84 Flame Spread, 3/8" thickness Smoke Generated	50 300	Class B: 26-75 <450
CAN/ULC 102.2 TRIPLICATE 3/16" Rounded Flame Spread (FSR) Rounded Smoke Developed (SDC)	40 225	See Building Code of Canada
CAN/ULC 102.2 TRIPLICATE 1/4" and 3/8" Rounded Flame Spread (FSR) Rounded Smoke Developed (SDC)	75 200	See Building Code of Canada

Noise Reduction Coefficient (NRC)

Values for Sola Felt

Measurement protocol: ASTM E 90 - Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements.

Product	NRC Value	Alpha-W
Clario (3/16" Sola Felt expandable ceiling baffles)	0.70	0.65H
Clario Cloud (3/8" Sola Felt suspended ceiling baffles)	0.75	0.70MH
Divy (Two-sided 3/8" Sola Felt suspended partition)	0.75	0.70H
Edge (1/4" Sola Felt fins)	0.55	0.45
Hush Blocks (24"×24"×2" wall tiles)	0.80	0.65MH
Hush Clad (3/8" Sola Felt applied directly to wall)	0.35	0.25H
Seeyond (16"×16"×4" wall tiles)	1.10	1.00
Velo (1/4" Sola Felt Suspended Tile)	0.85	0.85

Product Description and Specifications cont...

Maximum Continuous Use Temperature

Sola Felt 158°F (70°C)

Fabrication

Sola Felt can be cut using a sharp utility knife. To drill Sola Felt, use a spade bit. Twist bits cause melting and do not work well.

Optional Installation

Sola Felt can be installed with a heavy duty construction adhesive, such as Liquid Nails LN-903. This would typically be applied around the perimeter ½" from the edge. Then in stripes approximately every 12". It is important to align panels prior to the adhesive curing.

Heat Forming/Cold Bending

Sola Felt can be cold bent for simple bends and curved areas. As a general rule, a minimum radius of 100 times thickness is acceptable for Sola Felt.

Cleaning Instructions

Sola Felt should be cleaned periodically. A regular, seasonal cleaning program will dramatically help prevent noticeable weathering and dirt build-up.

To remove airborne debris and dust, it is recommended to periodically vacuum Sola Felt. Please note the slight shedding of fibers from the Felt is normal and not indicative of any defect.

To treat liquid stains, remove spills immediately using a clean damp cotton cloth or with detergent soap and warm water. Carpet and fabric cleaners can usually be used; always test an inconspicuous area before the actual stain.

Do:

- Vacuum or use a soft brush to clean Sola Felt.

Do not:

- Use strong solvents, highly alkaline or abrasive cleaning agents.
- Do not completely saturate module with cleaning solution or water.