



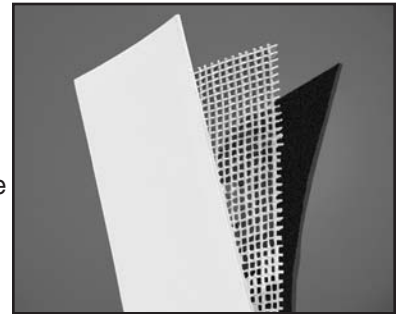
PRODUCT SPECIFICATION DATA SHEET

Stevens EV™ Elvaloy® KEE (ketone ethylene ester)

General Description

Stevens EV™ membrane is a scrim reinforced, high performance roofing membrane based on DuPont Elvaloy HP polymer (ketone ethylene ester), and meets the ASTM D 4434-04 specification for PVC-based roofing membranes.

Stevens EV™ membrane is manufactured by a proprietary calendaring process and consists of two thicknesses of Stevens EV™ compound that fully encapsulate the reinforcing scrim. Elvaloy is a high molecular weight, solids phase, non-migrating polymer that helps Stevens EV™ maintain its physical properties, appearance and color after installation and exposure to the elements.



Installation

Stevens EV™ membrane can be installed using a variety of common installation methods including: mechanical attachment, fully adhered, ballasted (stone or pavers) or installed as a Vented Roofing System (VRS) or a GardenTop™ Roofing System. Reference Stevens CSI Division 7 specifications and Stevens Standard Detail Drawings.

Technical Specifications

Membrane Thickness: .045-, .050, .060- or .080-in. (1.14, 1.27, 1.52, 2.03 mm) nominal thickness, scrim-reinforced.

Dimensions: The standard roll of Stevens EV™ is 76.5-inches X 100-feet* (1.9 x 30.5 m). Provides a coverage rate approximately 6-squares (600 square-foot, 55.74 m²).

Colors: White and Light Gray

Physical Properties: See next page

*For 80-mil rolls contact Customer Service ext.1062

Packaging** & Storage

Stevens EV™ membranes come in rolls 76.5-in. (1.9 m) wide and 100-ft. (30.5 m) long. (For packaging specs on 80 mil [2.03 m] Stevens EV™ contact Customer service at 800-621-ROOF ext. 1062). Each roll is shipped from the factory wrapped in protective packaging. Materials are shipped in pyramid pack. Consult the Stevens Customer Service Dept. for details and options. Materials should be stored in a cool, dry location with protective packaging intact. Do not cover with canvas or tarps.

Precautions

Do not damage or remove protective packaging until ready to install.

Note:

The Material Safety Data Sheet (MSDS) for this product is on line at www.stevensroofing.com or the Stevens Technical Manual CD-Rom.

**Packaging listed is for Domestic shipments only. For international shipments call 1-413-552-1000.

Stevens EV -Pyramid Pack 76 1/2" x 100 ft.	45 mil	50 mil	60 mil
Square Foot per Roll	637.5 sf.	637.5 sf.	637.5 sf.
Roll Net Weight	165 lbs.	185 lbs.	226 lbs.
Roll Gross Weight	170 lbs.	191 lbs.	231 lbs.
Rolls per Skid	15	16 (cube)	10
Square Feet per Skid	9,562.5 sf.	10,200 sf.	6,375 sf.
Skid Gross Weight	2,630 lbs.	3,215 lbs.	2,390 lbs.
Skids per Truck	14	14	14
Stevens EV-Pyramid pack 38 1/4" x Random			
Square Foot per Roll	318.75	318.75	318.75
Roll Net Weight	83	93	113
Roll Gross Weight	85	96	116
Rolls per Skid	15	10 (Pyr)	10
Square Feet per Skid	4,781.25	3,187.5	3,187.5
Skid Gross Weight	1,315	1,608	1,200
Skids per Truck	26	26	26

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PRODUCT SPECIFICATION DATA SHEET

Stevens EV™ Elvaloy® Physical Properties

Physical Property	Test Method	Typical Values 45 mil* (1.14 mm)	Typical Values 50 mil* (1.27 mm)	Typical Values 60 mil* (1.52 mm)
Thickness over Scrim	ASTM D-4434 Optical Method	0.017 in. (0.43 mm)	0.017 (0.43 mm)	0.020 in. (.508 mm)
Breaking Strength Grab Method A	ASTM D-751,	275 lbf./in. (48 kN/m)	282 lbf./in.(49 kN/m)	300 lbf./in. (52 kN/m)
Elongation @ Break	ASTM D-751 Grab Method A	28%	28%	28%
Seam Strength (% of Break)	ASTM D-751 Grab Method A	90%	90%	90%
Heat Aging (% of Original)	ASTM D-3045 (176°F/80°C for 56 days) ASTM D-751Grab Method A	90%	90%	90%
Tear Strength	ASTM D-751 Tongue Tear Method B	65 lbf. (290 N)	65 lbf. (290 N)	60 lbf. (270 N)
Low Temperature Bend	ASTM D-2136 -40°F/-40°C	Pass	Pass	Pass
Accelerated Weathering Test	ASTM D-4434; G-155 (5000 hrs. 6300 kJ/m ²) 63°C	No cracks, no craze (7X magnification)	No cracks, no craze (7X magnification)	No cracks, no craze (7X magnification)
Linear Dimensional Change	ASTM D-1204 6 hrs. 176°F /80°C	-0.3%	-0.3%	-0.3%
Static Puncture Resistance	ASTM D-5602 33 lbf. (15 kg) 73°F/23°C	Pass	Pass	Pass
Dynamic Puncture Resistance	ASTM D-5635 20J	Pass	Pass	Pass
Hemispherical Spectral Reflectance	ASTM E-903 ENERGY STAR min. 65%	Pass	Pass	Pass

*Thickness (nominal) per ASTM D-751 test method.

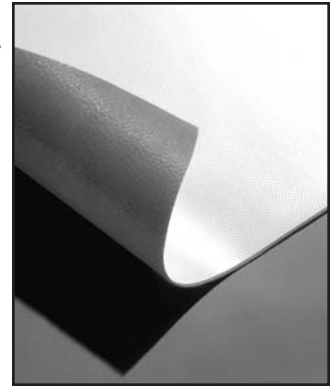


PRODUCT SPECIFICATION DATA SHEET

Stevens EV™-Fleece Membranes

General Description

Reinforced .045-, .050- or .060-in. (1.14-, 1.27-, 1.52-mm) Stevens EV™ membrane sheet laminated to a non-woven polyester fleece-backing. The material is designed for fully adhered or mechanically attached installations. Stevens EV™-Fleece is available in white and light gray, and meets the ASTM D 4434-04 specification for PVC-based roofing membranes.



Installation

Stevens EV™-Fleece can be mechanically attached, fully adhered to a variety of substrates, or installed as a GardenTop™ Roof System. Consult Stevens CSI Division 7 specifications and Stevens Standard detail drawings for installation details.

Technical Specifications

Membrane Thickness: .045-, .050- or .060-in. (1.14-, 1.27-, 1.52-mm) plus fleece

Colors: White or Light Gray

Dimensions: 76.5-in. wide x 100-ft. long roll (1.9 m x 30.5 m)

Physical Properties: See next page

Packaging* & Storage

Stevens EV™-Fleece Membrane comes in rolls 76.5-in. wide and 100-ft. long (1.9 m x 30.5 m). Rolls are wrapped in protective plastic bags. Materials are shipped in pyramid or cube-pack configurations. Consult the Stevens Customer Service Dept. for details. Store in a cool, dry location.

Precautions

Do not remove or damage protective packaging until ready to use.

Note

The Material Safety Data Sheet (MSDS) for this product is available on line at www.stevensroofing.com or the Stevens Technical Manual CD-Rom.

Stevens EV -Pyramid Pack 76 1/2" x 100 ft.	45 mil	50 mil	60 mil
Square Foot per Roll	637.5 sf.	637.5 sf.	637.5 sf.
Roll Net Weight	181 lbs.	200 lbs.	244 lbs.
Roll Gross Weight	186 lbs.	206lbs.	249 lbs.
Rolls per Skid	16 (F-cube)	10 (pyr)	10 (pyr)
Square Feet per Skid	10,200 sf.	6,375 sf.	6,375 sf.
Skid Gross Weight	3,056lbs.	2,135 lbs.	2,570lbs.
Skids per Truck	13	13	11

*Packaging is for Domestic shipment. For international shipment contact Stevens 1-413-552-1000.



PRODUCT SPECIFICATION DATA SHEET

Stevens EV™-Fleece Physical Properties

Physical Property	Test Method	Typical Values 45 mil* (1.14 mm)	Typical Values 50 mil* (1.27 mm)	Typical Values 60 mil* (1.52 mm)
Overall Thickness	ASTM D-751	45 mil (1.14 mm) nom. membrane plus fleece	50 mil (1.27 mm) nom. membrane plus fleece	60 mil (1.52 mm) nom. membrane plus fleece
Thickness over Scrim	ASTM D-4434 Optical Method	0.017-in (0.43 mm)	0.017-in (0.43 mm)	0.020-in. (0.508 mm)
Breaking Strength	ASTM D-751, Grab Method A	275 lbf./in. (48 kN/m)	282 lbf./in. (49 kN/m)	300 lbf. (52 kN/m)
Elongation@Break	ASTM D-751 Grab Method A	28%	28%	28%
Seam Strength (% of Break)	ASTM D-751 Grab Method A	90%	90%	90%
Heat Aging (% of Original)	ASTM D-3045 (176°F/80°C for 56 days) ASTM D-751 Grab Method A	90%	90%	90%
Tear Strength	ASTM D-751 Tongue Tear Method B	65 lbf. (290 N)	65 lbf. (290 N)	60 lbf. (270 N)
Low Temperature Bend	ASTM D-2136 -40°F/-40°C	Pass	Pass	Pass
Accelerated Weathering	ASTM D-4434 G-155 (5000 hrs.;6300 kJ/m ²) 63°C	No cracks, no craze (7X magnification)	No cracks, no craze (7X magnification)	No cracks, no craze (7X magnification)
Linear Dimensional Change	ASTM D-1204 6 hrs. 176°F/80°C	-0.3%	-0.3%	-0.3%
Static Puncture Resistance	ASTM D-5602 33 lbf. (15 kg) 73°F/23°C	Pass	Pass	Pass
Dynamic Puncture Resistance	ASTM D-5635 20J	Pass	Pass	Pass
Hemispherical Spectral Reflectance	ASTM E-903 ENERGY STARmin. 65%	Pass	Pass	Pass

*Thickness (nominal) per ASTM D-751 test method.