

Technical Information Sheet



Elevate PVC KEE Membrane

Item Description	Item Number
Roll – 50 mil: 5' x 100' (1.5 m x 30.5 m) – White, Tan and Gray	See Tables Below
Roll – 50 mil: 10' x 100' (3 m x 30.5 m) – White, Tan and Gray	
Roll – 60 mil: 5' x 100' (1.5 m x 30.5 m) – White, Tan and Gray	
Roll – 60 mil: 10' x 100' (3 m x 30.5 m) – White, Tan and Gray	
Roll – 80 mil: 5' x 80' (1.5 m x 24.4 m) – White, Tan and Gray	
Roll – 80 mil: 10' x 80' (3 m x 24.4 m) – White, Tan and Gray	
<i>Meets or Exceeds ASTM D 4434, Type III</i>	

Description

Elevate PVC KEE is a flexible Thermoplastic roofing membrane produced with DuPont™ Elvaloy® KEE and polyester weft-inserted reinforcement. Elevate PVC KEE membrane meets or exceeds all requirements for ASTM D 4434, Type III Specification. This heat weldable PVC KEE membrane is available in 50 mil (1.27 mm), 60 mil (1.52 mm) and 80 mil (2.03 mm) thicknesses and is suitable for a variety of low-slope applications.

Method of Application

1. Substrates must be clean, dry, smooth, and free of sharp edges, fins, loose or foreign materials, oil, grease, and other materials that may damage the membrane.
2. All rough surfaces that can damage the membrane shall be repaired as specified to offer a smooth substrate.
3. All surface voids greater than ¼" (6.3 mm) wide shall be properly filled with an acceptable fill material.
4. Elevate PVC KEE membrane is installed as continuous roofing or waterproofing layer on the roof. Rolls are overlapped (side laps and end laps) prior to heat welding the seam areas.
5. Install the Elevate PVC KEE Roofing System in accordance with current Elevate PVC KEE specifications, details, and workmanship requirements.
6. Elevate PVC KEE may be mechanically attached or adhered using PVC LVOC Bonding Adhesive. DO NOT use PVC Water Based Bonding Adhesive with PVC KEE non-fleece backed membranes.

Storage

- Store material away from direct sun light, sources of physical damage or chemical contamination.
- Assure that structural decking will support the loads incurred by material when stored on rooftop. The deck load limitations should be specified by the project designer.
- Store away from ignition sources as membrane will burn when exposed to open flame.

Precautions

- Refer to Safety Data Sheets (SDS) for additional safety information.
- Exercise caution when lifting, moving, transporting, storing, or handling membrane rolls to avoid sources of punctures and possible physical damage.
- Contact a Regional Technical Coordinator at 1-800-428-4511 for specific recommendations regarding chemical or waste product compatibility with Elevate PVC KEE membrane.

LEED® Information

Post-Consumer Recycled Content: 0%

Post Industrial Recycled Content: 5%

Manufacturing Location: Hillside, NJ

NOTE: LEED® is a registered trademark of the U.S. Green Building Council



Typical Properties					
Properties	ASTM Method	Performance Minimum	50 mil	Typical Performance	
				60 mil	80 mil
Overall Thickness	D 751	0.045" (1.14 mm)	0.050" (1.27 mm)	0.060" (1.52 mm) ± 10%	0.080" (2.03 mm)
Thickness over Scrim	D 7635	0.016" (0.40 mm)	0.020" (0.508 mm)	0.024" (0.610 mm)	0.030" (762 mm)
Breaking Strength	D 751 Grab Method	200 lbf (889 N)	356 lbf (1,573.6 N)	336 lbf (1,494.6 N)	375 lbf (1,668.08 N)
Seam Strength Min. % Breaking Strength	D 751 Procedure B	75%	75%	75%	75%
Elongation of Reinforcement Break	D 751 Grab Method	15%	27%	29%	32%
Tearing Strength	D 751 B-Tongue	≥ 45 lbf (200 N)	61.7 lbf (274.5 N)	54 lbf (240.2 N)	45.5 lbf (202.4 N)
Low Temperature Bend	D 2136	-40 °F (-40 °C)	Pass	Pass	Pass
Linear Dimensional Change	D 1204 *	± 0.5% max.	0.0	0.0	0.0
*6 h at 80 ± 1°C (176 ± 2 °F) - Linear dimensional change, max, %					
Water Absorption	D 570*	± 3% max.	< 3%	< 3%	< 3%
*168 ± 1 h at 70 ± 1 °C (158 ± 2 °F)					
Accelerated Weathering	G 155	5000 h min.	Pass (> 5000 h)	Pass (> 5000 h)	Pass (> 5000 h)
Dynamic Puncture Resistance	D 5635 Type III	Energy level of 20J min.	Pass	Pass	Pass
Static Puncture Resistance	D 5602*	33 lbf (15 kg) min.	Pass	Pass	Pass
*At 23 ± 1 °C (73 ± 2 °F)					
Retention of Properties After Heat Aging: Heat Aging—Practice D3045 at 80 ± 1 °C (176 ± 2 °F) for 56 days ± 1 h					
Breaking Strength	D 751, Grab Method	≥ 90% min.	> 90%	> 90%	> 90%
Elongation at Break	D 751, Grab Method	≥ 90% min.	> 90%	> 90%	> 90%
NOTE: For use of the product as a component in an air barrier assembly, please consult the Designer / Architect, Code Agency or Authority having Jurisdiction (AHJ) for the acceptable air barrier assembly details and its installation into the building envelope. Additional roof system securement enhancements may be required.					

Radiative Properties			
Cool Roof Rating Council (CRRC): Initial / 3 yr	White	Tan	Gray
Solar Reflectance	0.86 / 0.71*	0.74 / 0.64*	0.73 / 0.62*
Thermal Emittance	0.88 / 0.8*8	0.88 / 0.88*	0.88 / 0.88*
Solar Reflectance Index (SRI)	108 / 87*	91 / 77*	90 / 74*
Rated Product ID	0608 - 0085	0608-0084	0608-0086
Licensed Manufacturer ID	0608	0608	0608
Classification	Production Line	Production Line	Production Line
*Indicates a CRRC Rapid Rating			

White Elevate PVC KEE Reinforced Membrane Product Sizes					
Nominal Thickness	Part #	Width	Length	Weight	Shipping Weight
50 mil	W56KMW50510	5' (1.5 m)	100' (30.5 m)	0.34 lb/ ft ² (1.66 kg/m ²)	≤ 171 lb (78 kg)
50 mil	W56KMW51010	10' (3 m)	100' (30.5 m)	0.34 lb/ ft ² (1.66 kg/m ²)	≤ 342 lb (156 kg)
60 mil	W56KMW60510	5' (1.5 m)	100' (30.5 m)	0.41 lb/ ft ² (2.0 kg/m ²)	≤ 205 lb (93 kg)
60 mil	W56KMW61010	10' (3 m)	100' (30.5 m)	0.41 lb/ ft ² (2.0 kg/m ²)	≤ 410 lb (186 kg)
80 mil	W56KMW80580	5' (1.5 m)	80' (24.4 m)	0.57 lb/ ft ² (2.6 kg/m ²)	≤ 228 lb (104 kg)
80 mil	W56KMW81080	10' (3 m)	80' (24.4 m)	0.57 lb/ ft ² (2.6 kg/m ²)	≤ 456 lb (207 kg)

Tan Elevate PVC KEE Reinforced Membrane Product Sizes					
Nominal Thickness	Part #	Width	Length	Weight	Shipping Weight
50 mil	W56KMT50510	5' (1.5 m)	100' (30.5 m)	0.34 lb/ ft ² (1.66 kg/m ²)	≤ 171 lb (78 kg)
50 mil	W56KMT51010	10' (3 m)	100' (30.5 m)	0.34 lb/ ft ² (1.66 kg/m ²)	≤ 342 lb (156 kg)
60 mil	W56KMT60510	5' (1.5 m)	100' (30.5 m)	0.41 lb/ ft ² (2.0 kg/m ²)	≤ 205 lb (93 kg)
60 mil	W56KMT61010	10' (3 m)	100' (30.5 m)	0.41 lb/ ft ² (2.0 kg/m ²)	≤ 410 lb (186 kg)
80 mil	W56KMT80580	5' (1.5 m)	80' (24.4 m)	0.57 lb/ ft ² (2.6 kg/m ²)	≤ 228 lb (104 kg)
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Please contact Holcim Technical Services at 800-428-4511 for further information.

This sheet is meant to highlight Elevate products and specifications and is subject to change without notice. Holcim takes responsibility for furnishing quality materials that meet published Elevate product specifications or other technical documents, subject to normal manufacturing tolerances. Neither Holcim nor its representatives practice architecture. Holcim offers no opinion on and expressly refuses any responsibility for the soundness of any structure. Holcim accepts no liability for structural failure or resultant damages. Consult a competent structural engineer prior to installation if the structural soundness or structural ability to properly support a planned installation is in question. No Holcim representative is authorized to vary this disclaimer.