

Technical Information Sheet



Elevate™ MAX PVC Membrane

Item Description	Item Number
Roll - 50 mil: 10' (3 m) x 100' (30.48 m)	See Table Below
Roll - 60 mil: 10' (3 m) x 100' (30.48 m)	
Roll - 80 mil: 10' (3 m) x 65' (19.8 m)	
Roll - 50 mil: 5' (1.52 m) x 100' (30.48 m)	
Roll - 60 mil: 5' (1.52 m) x 100' (30.48 m)	
Roll - 80 mil: 5' (1.52 m) x 65' (19.8 m)	

Description

Elevate MAX PVC Membrane is a flexible Thermoplastic Polyvinyl Chloride roofing membrane that is produced with polyester weft-inserted reinforcement. Elevate MAX PVC membrane meets or exceeds all requirements for ASTM D 4434, Type III Specification. This heat weldable Elevate MAX PVC 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. The Elevate MAX PVC membrane may be adhered, mechanically fastened, or Induction Welded to an appropriate substrate. The Elevate MAX PVC Membrane is not compatible with Elevate PVC, PVC XR, PVC KEE, PVC KEE XR or PVC KEE XRT membranes.

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 1/4" (6.3 mm) wide shall be properly filled with an acceptable fill material.
4. Elevate MAX PVC 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. Elevate MAX PVC membrane may be mechanically attached, Induction Welded, or adhered using Elevate PVC LVOC Bonding Adhesive, Elevate PVC Water Based Bonding Adhesive or Elevate Jet Bond PVC Spray Adhesive. A line, 6" (152.4 mm) from one edge of the sheet, is factory-applied to the top of the sheet to assist in maintaining proper overlap between sheets. "X"s are placed at 6" (152.4 mm) intervals along one edge of the sheet to assist in maintaining proper spacing between fasteners. Install fasteners so the outside edge of the seam place is flush with the edge of the sheet. Keep laps where welds will occur free of adhesives.
6. Install the Elevate MAX PVC Roofing System in accordance with current Elevate MAX PVC specifications, details, and workmanship requirements.

Storage

- Store rolls lengthwise on pallets.
- Use tarps to keep rolls dry.
- Store material away from direct sunlight, 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

- DO NOT mix with Elevate PVC and PVC KEE membrane.
- 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 MAX PVC membrane.
- Refer to Safety Data Sheets (SDS) for additional safety information.

Energy Efficiency

White Elevate MAX PVC is an excellent product for complying with California Title 24, LEED and other energy efficiency programs requiring the use of a highly reflective roof membrane.

Manufacturing Location: Saginaw, MI



LEED® Information

LEED-NC Credit Category	Attribute
Sustainable Sites - Heat Island Reduction	Solar Reflective Index (SRI) = 108
LEED-EB Credit Category	Attribute
Sustainable Sites - Heat Island Reduction	Solar Reflective Index (SRI) = 108
NOTE: White Elevate MAX PVC alone can obtain 1 credit in either U.S. Green Building Council's LEED-NC or LEED-EB programs. In combination with other design criteria the membrane may help attain other credits.	

Cool Roof Rating Council (CRRC)

Color	CRRC ID	Solar Reflectance		Thermal Emittance		Solar Reflective Index (SRI)	
		Initial	3-Year	Initial	3-Year	Initial	3-Year
White	0608-0119	0.86	0.74*	0.87	0.87*	108	91*
Tan	0608-0120	0.72	0.58	0.85	0.88	88	68
Gray	0608-0121	0.46	0.38	0.89	0.89	53	43
Charcoal	0608-0122	0.09	0.10	0.86	0.89	3	5
*CRRC Rapid Rating							

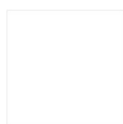
Color Options

White

Gray

Tan

Charcoal



Typical Properties				
Property	Test Method	ASTM D4434 Requirement	Result	Typical Performance
Overall Thickness	ASTM D751	$\geq 0.045"$ and $\leq 0.055"$ (≥ 45 and ≤ 55 mil)	PASS	0.050" (50 mil), nominal
		$\geq 0.054"$ and $\leq 0.066"$ (≥ 54 and ≤ 66 mil)		0.060" (60 mil), nominal
		$\geq 0.072"$ and $\leq 0.088"$ (≥ 72 and ≤ 88 mil)		0.080" (80 mil), nominal
Thickness Over Scrim	ASTM D7635	$\geq 0.016"$	PASS	0.026" (26 mil)
				0.031" (31 mil)
				0.041" (41 mil)
Breaking Strength ¹	ASTM D751 Grab Method	≥ 200 lbf/in	PASS	423 x 278 lbf/in
				437 x 304 lbf/in
				481 x 341 lbf/in
Elongation ¹	ASTM D751 Grab Method	$\geq 15\%$	PASS	31% x 30%
				29% x 30%
				33% x 33%
Seam Strength	ASTM D751 Grab Method (75% of Breaking Strength)	≥ 317 lbf	PASS	423 lbf
		≥ 327 lbf		463 lbf
		≥ 360 lbf		452 lbf
Tearing Strength ¹	ASTM D751 Procedure B	≥ 45 lbf	PASS	90 x 143 lbf
				78 x 190 lbf
				53 x 196 lbf
Low Temperature Bend	ASTM D2136	Must pass at -40 °F	PASS	PASS
Heat Aging	ASTM D3045	Conditioned for 56 days in oven maintained at 176 °F (80 °C).	PASS	PASS
Accelerated Weathering	ASTM G155	10,000 hours total test time. Irradiance level of 0.35 W/M ² -340nm. Cycle: 102 minutes light, 18 minutes light + H ₂ O spray, 63±2.5 °C black panel, 30±5% RH	PASS	PASS
Dimensional Stability ¹	ASTM D1204	Conditioned for 6 hours in oven maintained at 176 °F (80 °C). Allowable change: $\leq 0.5\%$	PASS	0.20% x 0.10%
				0.30% x 0.10%
				-0.10% x -0.10%
Water Absorption	ASTM D570	Immersed in water at 158 °F for 168 hours. Allowable weight change: $\leq 3\%$	PASS	2.60%
				2.29%
				0.10%
Static Puncture	ASTM D5602	≥ 33 lbf	PASS	≥ 33 lbf
Dynamic Puncture	ASTM D5635	≥ 14.7 ft-lbf (20 J)	PASS	≥ 14.7 ft-lbf (20 J)

¹ Typical values are shown for both machine and cross machine directions. The machine direction results are listed first.

Typical Properties (Continued)

Additional Tests	Test Method	Results
Fungi Resistance	ASTM G21	No sustained growth or discoloration
Moisture Vapor Transmission	ASTM E96, Proc. B, Method A	< 0.35 U.S. perms
R-Value	---	0.1 R (0.1 ft ² ·°F·hr/Btu)
Additional Information		
Scrim	Weft-Inserted Scrim – 18 x 9 polyester fabric construction with weft insertion, composed of 840 x 1000 denier threads. Polyester thread is treated to prevent wicking.	
Color	Top Surface: White Bottom Surface: Light Gray	
Weight	50 mil: 0.28 lb/ft ² 60 mil: 0.35 lb/ft ² 80 mil: 0.51 lb/ft ²	

Packaging and Roll Dimensions

Packaging	Full pallet contains 10 rolls.			
Membrane Thickness	Dimensions	Approximate Coverage		Approximate Weight
		6" Overlap	4" Overlap	
50 mil	10' x 100' (3.048 m x 30.48 m)	950 ft ²	967 ft ²	280 lb
50 mil	5' x 100' (1.52 m x 30.48 m)	450 ft ²	467 ft ²	140 lb
60 mil	10' x 100' (3.048 m x 30.48 m)	950 ft ²	967 ft ²	350 lb
60 mil	5' x 100' (1.52 m x 30.48 m)	450 ft ²	467 ft ²	175 lb
80 mil	10' x 65' (3.048 m x 19.81 m)	617 ft ²	628 ft ²	335 lb
80 mil	5' x 65' (1.52 m x 19.81 m)	292 ft ²	303 ft ²	170 lb

Item Numbers

Membrane Thickness	Dimensions	Color	Item Number
50 mil	10' x 100' (3.048 m x 30.48 m)	White	W56PVW51010
		Gray	W56PVG51010
		Tan	W56PVT51010
		Charcoal	W56PVC51010
50 mil	5' x 100' (1.52 m x 30.48 m)	White	W56PVW50510
		Gray	W56PVG50510
		Tan	W56PVT50510
		Charcoal	W56PVC50510
60 mil	10' x 100' (3.048 m x 30.48 m)	White	W56PVW61010
		Gray	W56PVG61010
		Tan	W56PVT61010
		Charcoal	W56PVC61010
60 mil	5' x 100' (1.52 m x 30.48 m)	White	W56PVW60510
		Gray	W56PVG60510
		Tan	W56PVT60510
		Charcoal	W56PVC60510

80 mil	10' x 65' (3.048 m x 19.81 m)	White	W56PVW81065
		Gray	W56PVG81065
		Tan	W56PVT81065
		Charcoal	W56PVC81065
80 mil	5' x 65' (1.52 m x 19.81 m)	White	W56PVW80565
		Gray	W56PVG80565
		Tan	W56PVT80565
		Charcoal	W56PVC80565

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.