

Technical Information Sheet



Elevate™ MAX PVC XR Fleece-Backed 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 XR Membrane is a flexible Thermoplastic Polyvinyl Chloride roofing membrane that is produced with polyester weft-inserted reinforcement and a 3.8-ounce polypropylene fleece. Elevate MAX PVC XR Membrane meets or exceeds all requirements for ASTM D 4434, Type III Specification. This heat weldable Elevate MAX PVC XR 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 XR Membrane can be mechanically fastened or adhered over an appropriate. The Elevate MAX PVC XR 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 XR 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 XR Membrane may be mechanically attached or adhered using Elevate PVC Water Based Bonding Adhesive, I.S.O. Spray R, XR Stick, and Twin Jet adhesives. 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. Keep laps where welds will occur free of adhesives. Each roll of membrane has one selvage edge where the fleece is held back 2.25" (57.15 mm) to provide for hot-air welding to the underlying membrane.
6. Install the Elevate MAX PVC XR Membrane Roofing System in accordance with current Elevate MAX PVC XR Membrane 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 or 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 XR membrane.
- Refer to Safety Data Sheets (SDS) for additional safety information.

Energy Efficiency

White Elevate MAX PVC XR Membrane 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.

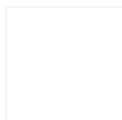



Manufacturing Location: Saginaw, MI



LEED® Information	
LEED-NC Credit Category	Attribute
Sustainable Sites – Heat Island Reduction	Solar Reflective Index (SRI) = 110
LEED-EB Credit Category	Attribute
Sustainable Sites – Heat Island Reduction	Solar Reflective Index (SRI) = 110
NOTE: White Elevate MAX PVC XR Membrane 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	0.87	0.67	0.89	0.89	109	82
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

* Values based on non-fleece membrane testing.

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 (with fleece: 68 mil)
		$\geq 0.054"$ and $\leq 0.066"$ (≥ 54 and ≤ 66 mil)		0.060" (60 mil), nominal (with fleece: 78 mil)
		$\geq 0.072"$ and $\leq 0.088"$ (≥ 72 and ≤ 88 mil)		0.080" (80 mil), nominal (with fleece: 98 mil)
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	500 x 344 lbf/in
				554 x 408 lbf/in
				545 x 376 lbf/in
Elongation ¹	ASTM D751 Grab Method	$\geq 15\%$	PASS	32% x 77%
				34% x 85%
				34% x 33%
Seam Strength	ASTM D751 Grab Method (75% of Breaking Strength)	≥ 317 lbf	PASS	405 lbf
		≥ 327 lbf		437 lbf
		≥ 360 lbf		512 lbf
Tearing Strength ¹	ASTM D751 Procedure B	≥ 45 lbf	PASS	67 x 160 lbf
				50 x 200 lbf
				70 x 211 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..10% x 0.10%
				0.10% x 0.00%
				-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%
				2.30%
				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.				
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
60 mil	10' x 100' (3.048 m x 30.48 m)	950 ft ²	967 ft ²	350 lb
80 mil	10' x 65' (3.048 m x 19.812 m)	617 ft ²	628 ft ²	335 lb

Item Numbers

Membrane Thickness	Dimensions	Color	Item Number
50 mil	10' x 100' (3.048 m x 30.48 m)	White	W56PVXW51010
		Gray	W56PVXG51010
		Tan	W56PVXT51010
		Charcoal	W56PVXC51010
50 mil	5' x 100' (1.52 m x 30.48 m)	White	W56PVXW50510
		Gray	W56PVXG50510
		Tan	W56PVXT50510
		Charcoal	W56PVXC50510
60 mil	10' x 100' (3.048 m x 30.48 m)	White	W56PVXW61010
		Gray	W56PVXG61010
		Tan	W56PVXT61010
		Charcoal	W56PVXC61010
60 mil	5' x 100' (1.52 m x 30.48 m)	White	W56PVXW60510
		Gray	W56PVXG60510
		Tan	W56PVXT60510
		Charcoal	W56PVXC60510
80 mil	10' x 65' (3.048 m x 19.812 m)	White	W56PVXW81065
		Gray	W56PVXG81065
		Tan	W56PVXT81065
		Charcoal	W56PVXC81065
80 mil	5' x 65' (1.52 m x 19.81 m)	White	W56PVXW80565
		Gray	W56PVXG80565
		Tan	W56PVXT80565
		Charcoal	W56PVXC80565

Please contact Holcim Technical Services at 800-428-4511 for further information.

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