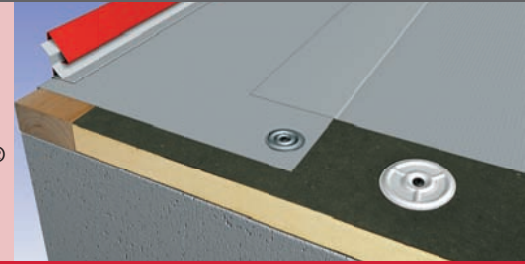




VERSIWELD®



VERSIWELD PLUS ROOFING SYSTEM

Versico's VersiWeld Plus Roofing System is the ultimate in long-lasting, weather resistant, heat weldable single-ply roofing.

The heavier 72- or 80-mil thermoplastic polyolefin (TPO) membranes offer enhanced physical properties, long-term warranties and labor-saving installations.

Features and Benefits

- Available in white and gray.
- Sheet widths of 6', 8', 10', and 12' with 4' wide factory-produced perimeter sheets.
- UL Class A Ratings are available over any deck type.
- FM Uplift values of up to 1-150
- No plasticizers or chlorine used in manufacturing for an environmentally friendly sheet.
- ENERGY STAR® rated.
- Installation "friendly" pre-fabricated TPO accessories and flashing complement VersiWeld Plus.
- Smooth top-ply surface of VersiWeld Plus produces a "total surface fusion weld" creating a consistent, watertight monolithic roof assembly.
- Polyester reinforcing fabric which is resistant to degradation by bacteria, mildew and fungi.
- When tested for puncture resistance, VersiWeld results were better than competitive heat weldable membranes.
- 5- and 10-year membrane system warranties are available. Also 10-, 15- & 20-year total system warranty coverage available.



- A warranted system is installed by an Authorized Versico Roofing Contractor.
- A completed warranted system is inspected by a trained Versico Field Service Representative to ensure conformance with Versico specifications.
- 10-year reflectivity warranty available.
- Puncture warranty available.



A subsidiary of Carlisle SynTec Incorporated

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VERSIWELD 72- & 80-MIL THICK REINFORCED TPO SHEET Basic Properties and Characteristics (Standard & HS)

Physical Property	Test Method	Property of Unaged Sheet	Property after ASTM D 573 aging ¹ 28 days @ 240°F
Tolerance on Nominal Thickness, %	ASTM D 751	±10	
Thickness over scrim, in. (mm)	ASTM D 4637 Optical Method	0.030 (0.762) ±10 %	
Breaking strength, lbf (kN)	ASTM D 751 Grab Method	350 (1.6) min. 72-mil 400 (1.8) typical 72-mil 350 (1.6) min. 80-mil 425 (1.9) typical 80-mil	350 (1.6) min. 72-mil 400 (1.8) typical 72-mil 350 (1.6) min. 80-mil 425 (1.9) typical 80-mil
Elongation at break of fabric, %	ASTM D 751	25 typical	25 typical
Tearing strength, lbf (N) 8 by 8 in. specimen	ASTM D 751 B Tongue Tear	55 (245) min. 130 (578) typical	55 (245) min. 130(578) typical
Brittleness point, °F (°C)	ASTM D 2137	-40 (-40) max. -50 (-46) typical	
Linear Dimensional Change (shrinkage),% After 6 hours at 158°F (70°C)	ASTM D 1204	+/- 0.5 max -0.2 typical	
Ozone resistance, 100 pphm, 168 hours	ASTM D 1149	No cracks	No cracks
Resistance to Water Absorption After 7 days immersion @ 158°F (70°C) Change in mass, max, %	ASTM D 471 (top surface only)	4.0 max. 2.0 typical	
Resistance to microbial surface growth rating (1 is very poor, 10 is no growth)	ASTM D 3274 2 yr S. Florida	9-10 typical	
Field seam strength, lbf/in. (kN/m) Seam tested in peel	ASTM D 1876	40 (7.0) min. 60 (10.5) typical	
Water vapor permeance, Perms	ASTM E 96	0.10 max 0.05 typical	
Puncture resistance, lbf (kN) (see supplemental section for additional puncture data)	FTM 101 C Method 2031	350 (1.6) min. 72-mil 400 (1.8) typical 72-mil 400 (1.8) min. 80-mil 450 (2.0) typical 80-mil	
Resistance to xenon-arc weathering ² Xenon-Arc, 17,640 kJ/m ² total radiant exposure, visual condition at 10X	ASTM G 155 0.70 W/m ² 80°C B.P.T.	No cracks No loss of breaking or tearing strength	



¹ Aging conditions are 28 days at 240°F (116°C) equivalent to 400 days at 176°F (80°C) for breaking strength, elongation, tearing strength, ozone and puncture resistance.
² Approximately equivalent to 14,000 hours exposure at 0.35 W/m² irradiance. B.P.T. is black panel temperature

Radiative Properties for Energy Star® Cool Roof Rating Council (CRRC) & Leed™

	Test Method		White TPO	Gray TPO
Energy Star initial solar reflectance	Solar Spectrum Reflectometer	Initial Results After 3 years (cleaned)	0.87 0.83	n/a n/a
CCRC initial solar reflectance	ASTM C 1549	Initial Results 0.79 After 3 years (cleaned)	0.46 pending	pending
CCRC initial thermal emittance	ASTM C 1371	Initial Results After 3 years (cleaned)	0.90 pending	0.90 pending
LEED thermal emittance	ASTM E 408		0.95	0.95
SRI (Solar Reflectance Index)	ASTM E 1980		110	55

Existing or New Deck Type	NEW CONSTRUCTION					RE-ROOFING		
	Steel	Plywood or OSB	Wood Planks	Gypsum & Fibrous Cement	Structural Concrete	Smooth Surface BUR	Gravel Surface BUR	Existing Single-Ply
Deck Overlayment	Insulation	None	Insulation	Insulation	MP Safeguard Mat	None	Insulation	Insulation
Recommended Insulation	Polyiso, Wood Fiberboard, Wood Fiberboard over Polystyrene, Extruded Polystyrene					← Refer to New Construction		
Insulation Attachment	MP Fasteners & Seam or Insulation Plates		Lite Deck or NTB Fasteners/Plates	MP Fastener, CD-10 and Seam or Insulation Plates		← Refer to New Construction		
Membrane Attachment	HPVX Fasteners/HPVX Plates		Lite Deck or NTB Fasteners/Plates	CD-10 and HPVX Plates		← Refer to New Construction		