

StrongHold™ TPO Fleeceback

TECHNICAL PRODUCT INFORMATION



STRONGHOLD™

StrongHold TPO Fleeceback is a proven, proprietary membrane formulation composed of thermoplastic polyolefin, which contains patented ultra-high-strength Aramid yarns along the lap edge to provide maximum tensile strength and puncture resistance for mechanically attached systems where the fastener anchors the roof membrane.

FEATURES & BENEFITS

- Meets or exceeds the criteria of ASTM D6878 Standard Specification for Thermoplastic Polyolefin-Based Sheet Roofing
- Offers superior UV performance and chemical resistance
- Manufactured with a specialized process that impregnates the fleece backing into the film of the membrane while in its molten state during manufacturing, i.e. the fleece backing is not post-laminated or glued
- Contains 10% post-industrial recycled content

APPROVALS

FM Approved

UL Classified

PACKAGING

Package: Plastic shrink wrap

Pallets per truckload (typical): 8-15 (varies depending on product thickness and dimensions)

Membrane Thickness	Size	Rolls / Pallet
60 mils	6.33' x 90'	10

APPLICATION



HOT ASPHALT



BONDING ADHESIVE



LOW RISE FOAM ADHESIVE



MECHANICALLY ATTACHED

StrongHold TPO Fleeceback membranes can be applied in hot asphalt, bonding adhesive, or low-rise foam adhesive, as well as mechanically attached at the seams.

Product application should be suspended immediately and our technical service personnel contacted if the results being obtained are less than desirable.

Specific application methods may vary, depending on the roof system being installed, as well as the substrate and type of

insulation being installed. Please refer to the BITEC Roofing Products Installer's Guide for detailed application guidelines.

As with any roofing project, good roofing practices should always be followed.

STORAGE & HANDLING

Store the rolls in their original containers with labels unbroken in a clean, dry, protected location and within the temperature range required to provide for proper application. Keep rolls stored on their original pallet. Never stack materials on top of the rolls. Avoid dropping rolls on the edges to avoid potential deformation that can affect their ability to roll out evenly. Handle and place roofing materials and equipment in a manner to avoid permanent deflection of the deck.

PRECAUTIONS

Safety first! Read all label information, SDS, and precautions before using. For safety information on our products, please visit www.bitec.com.

All information is given in good faith but normal tolerances of manufacture and testing will apply. BITEC reserves the right to improve and change its products at any time without prior notice or advice. The use of BITEC products is determined by local conditions and individual requirements of each contract. In consideration of the many factors involved, BITEC cannot be held responsible for the improper application of its products and for conditions beyond its control. All claims filed against BITEC warranties will be subject to the provisions set forth at the date of the warranty issuance, and any addendum thereto. Under no circumstances will BITEC be held liable for any damage, whether personal injury or property damage, which occur during or after the application of any BITEC products.

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Technical Schedule			
Material Classification	Type III	ASTM D 4434	
Fabric Type	Polyester / Aramid Knit		
Base Fabric Weight	3.01 oz/yd ² fabric (102 g/m ²)		
Minimum Values Reported .060" Thickness			
Thickness Over Scrim	15 mils	ASTM D751	
Puncture Strength (FTMS 101C)	275 lbs (125 kg)		Method 2031
Tensile Strength, Grab (Warp/Fill)	275 / 300 lbs (125 / 136 kg)		
Seam Strength (Warp/Fill) 95% of Tensile Strength, Grab	225 / 272 lbs (102 / 123 kg)		
Hydrostatic Resistance	450 psi (3.1 MPa)		
Ply Adhesion (at Aramid edge)	30 lbs / 2 in (13.6 kg / 5 cm)		
Seam Adhesion (Thermal)	35 lbs / in (61 N / cm)		
Tensile Elongation Grab (Warp/Fill)	15% / 15%		
Tensile Strength (retained after oven aging)	90% minimum		
Tensile Elongation (retained after oven aging)	90% minimum		ASTM D871
Tear Strength, Tongue (Warp/Fill)	65 / 65 lbs (29.5 / 29.5 kg)	ASTM D5884	
Abrasion Resistance (H18 / 1 kg)	2,000 cycles	ASTM D3884	
Water Absorption	<1%	ASTM D471	
Dimensional Stability (1 h/100C)	<1%	ASTM D1204	
Static Puncture Resistance	Pass	ASTM D5602	
Dynamic Puncture Resistance	Pass	ASTM D5635	
Ozone Resistance (no cracks)	Pass	ASTM D1149	
Low Temperature Bend	-40°F (-40°C)	ASTM D2136	
Solar Reflectance (white)	0.86	ASTM C1549	
Solar Emittance (white)	0.86	ASTM E408	
Solar Reflectance Index (white)	108	ASTM E1980	
Post-Industrial Recycled Content	10%		

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