

# StrongHold™ KEE Fleeceback

## TECHNICAL PRODUCT INFORMATION



**STRONGHOLD™**

StrongHold KEE Fleeceback is a proven, proprietary membrane formulation blending DuPont™ KEE (ketone ethylene ester) and PVC, 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 D4434, Type III, Standard Specification for Poly(Vinyl Chloride) 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. 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
45 mils	6.33' x 90'	10
60 mils	6.33' x 90'	10
60 mils	12' x 90'	8
80 mils	6.33' x 75'	10

### APPLICATION



StrongHold KEE 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](http://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 <sup>2</sup> fabric (102 g/m <sup>2</sup> )				
	Minimum	45 mils	Typical 60 mils	80 mils	
Thickness Over Scrim		16 mils	20 mils	28 mils	
Puncture Strength (FTMS 101C)	300 lbs	325 lbs	375 lbs	400 lbs	Method 2031
Tensile Strength, Grab (Warp/Fill)	270 / 240 lbs	300 / 300 lbs	335 / 335 lbs	335 / 335 lbs	ASTM D751
Seam Strength (Warp/Fill) 95% of Tensile Strength, Grab	243 / 238 lbs	285 / 285 lbs	318 / 318 lbs	318 / 318 lbs	
Hydrostatic Resistance	350 psi	450 psi			
Ply Adhesion (at Aramid edge)	25 lbs / 2 in	30 lbs / 2 in			
Seam Adhesion	30 lbs/in	45 lbs/in			
Tensile Elongation Grab (Warp/Fill)	15 / 15%	20 / 20%			
Tensile Strength (retained after 2-year weathering)	90% minimum				
Tensile Strength (retained after oven aging)	90% minimum				
Tensile Elongation (retained after 2-year weathering)	90% minimum				
Tensile Elongation (retained after oven aging)	90% minimum				
Tear Strength, Tongue (Warp/Fill)	45 / 45 lbs	65 / 60 lbs			ASTM D5884
Abrasion Resistance (H18 / 1 kg)	2,000 cycles	3,000 cycles			ASTM D3884
Water Absorption	<3%	<2%			ASTM D471
Dimensional Stability (1 hr/100C)	<1%	<0.5%			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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