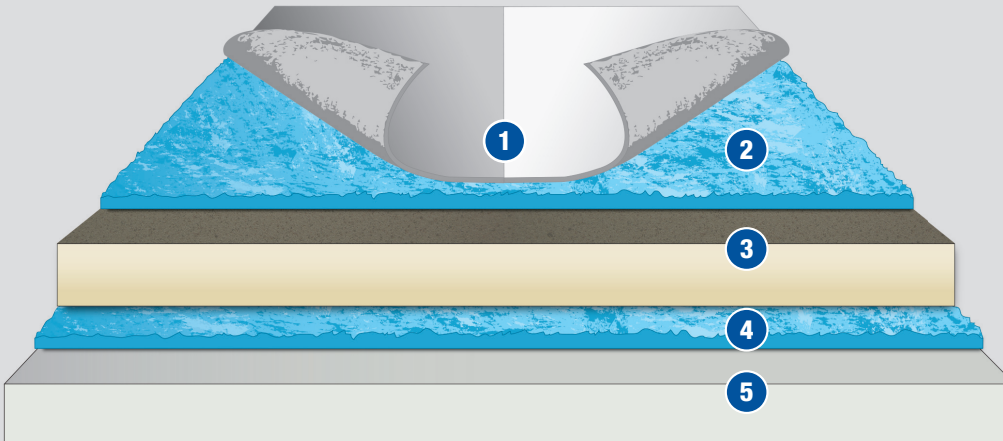


FleeceBACK® KEE HP

Adhered System



- 1** FleeceBACK KEE HP Polyester Reinforced Membrane
- 2** Flexible FAST™ Adhesive
- 3** Approved Carlisle Insulation
- 4** Flexible FAST Adhesive
- 5** Approved Roof Deck

FleeceBACK KEE HP Membranes for adhered roofing systems are available in the following:

Thicknesses	Roll Size	Color
105-mil	10' x 100'	White, Gray, and Tan
115-mil	10' x 100'	White, Gray, and Tan
135-mil	10' x 75'	White, Gray, Tan, and Light Gray

Description

Carlisle's FleeceBACK KEE HP (High Performance) polyester reinforced membrane is tough, durable, and versatile, making it ideal for a wide variety of re-roofing and new construction projects. Manufactured using a hot-melt extrusion process for complete scrim encapsulation, this product is available in total sheet thicknesses of 105, 115, and 135 mils.

FleeceBACK KEE HP polyester reinforced membrane offers exceptional weatherability, flexibility, and toughness due to its polyester reinforcing scrim, polyester fleece backing, and DuPont® Elvaloy® KEE HP copolymer. The polyester reinforcing scrim provides the sheet with added breaking strength, tear strength and puncture resistance for fully adhered or mechanically attached applications; the fleece backing adds to the puncture-resistance of the membrane and provides a built-in separation layer against rough concrete decks or existing asphaltic-based roofing systems. Elvaloy KEE HP, a solid plasticizer that won't migrate out of the sheet over time, helps to ensure the membrane remains pliable and weldable as it ages and reduces the amount of smoke generated during the welding process.

System Features & Benefits:

- » Added Puncture / Tear Resistance
 - Polyester scrim and external Fleece provide excellent puncture resistance
 - Fleece backing provides 30% greater puncture resistance than standard membrane
 - Combination of FleeceBACK KEE HP membrane with Flexible FAST adhesive increases puncture resistance up to 50% compared to traditional competitive low-rise adhesives
- » Superior Wind Uplift
 - Uplift pressures ranging from 90–945 psf depending on the substrate. Due to its superior wind uplift performance, the FleeceBACK/Flexible FAST Adhesive System can qualify for upgraded wind speed warranties of 80–120 mph with design enhancements
- » Increased Hail Performance
 - Passes FM's severe hail test
 - Passes UL-2218 Class 4 rating

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- » Expedient Installation without Interruptions
 - Due to the low noise and low odor associated with the system, the FleeceBACK/Flexible FAST assembly is an excellent choice for re-roofing occupied buildings, as there is minimal disruption
 - Labor-savings 10'-wide sheets result in 67% fewer seams than a modified bitumen system of comparable size
- » Energy Efficient and Environmentally Sounds
 - Each layer of full coverage Flexible FAST provides an additional R-Value of .20-.50 per layer
 - Insulation adhered with Flexible FAST can reduce R-value loss by 3-8% by expanding and sealing insulation joints
- » Longer Term Performance
 - Enhanced physical property characterizes for long-term weatherability
 - Superior chemical resistance to acids, bases, restaurant oils, and grease
 - Meets ENERGY STAR®, CRRC, LEED, and Title 24 guidelines (white only)
 - Low-volatility KEE HP plasticizer won't migrate out of the sheet over time

Existing or New Deck Type	New Construction						Re-roofing		
	Steel	Plywood or OSB	Lt. Wt. Concrete	Structural Concrete	Wood Planks	Gypsum & Fibrous Cement	Smooth BUR Surface	Gravel Surfaced BUR	Existing Single-Ply
Insulation Required	Yes	No	No	No	No	No	No	Yes	No
Recommended Insulations	Carlisle Polyiso, DensDeck®, SECUROCK® or SecurShield® HD over acceptable insulation						← Refer to New Construction		
Insulation Attached By	Flexible FAST Adhesive or Carlisle Fasteners						← Refer to New Construction		
Membrane Attached By	Flexible FAST Adhesive						← Refer to New Construction		

FOR TEAR OFF OPTIONS REFER TO NEW CONSTRUCTION ABOVE.

For current code approvals and warranties, visit Carlisle's web site or contact a design analyst.

*Refer to Carlisle's Sure-Flex Design Criteria Portion of the Current Specification.

Warranty Options

Mil-Thickness	Warranty Length	Accidental Puncture Coverage	Hail Coverage with Flexible FAST at Full Coverage
105-mil	10, 15, or 20 year	-	Up to 1" diameter hail
115-mil	25 year	16 man-hours per year	Up to 2" diameter hail
135-mil	30 year	32 man-hours per year	Up to 3" diameter hail

- » A 10-, 15-, 20-, 25- or 30-year Golden Seal™ Total System Warranty may be requested when all materials used for the roofing installation are manufactured or marketed by Carlisle
- » Hail warranties require the use of Flexible FAST in full coverage spray or beads at 4" o.c.
- » For projects specified with warranties greater than 20 year and/ or wind coverage specified greater than 80 mph, additional design enhancements are required

