BiFlex® Cap Membranes

BiFlex Cap • BiFlex Cap Mineral

PRODUCT DESCRIPTION

BiFlex Cap membranes are high-strength, puncture and fatigue resistant, rubber modified roofing membranes designed for use as the waterproofing and reinforcement layer of a modified built-up roofing system. It consists of fiberglass reinforcement sandwiched by Styrene-Butadiene-Styrene (SBS) rubber in a high penetration index asphalt mixture.

PRODUCT ADVANTAGES

Security in Multi-Ply Construction - BiFlex Cap membranes are the top component of a multi-ply roof system. It combines the inherent advantages and proven performance of multi-ply protection with the strength, flexibility and elongation of elastomeric systems. This unique combination eliminates dependence on perfect workmanship, contact adhesive seaming, etc.

Factory Formulation Reduces Labor Expense - BiFlex Cap membranes are coated at the factory with reflective mineral granules. Consequently, there's no need to flood coat and gravel or aluminize the membrane's surface. Roof projects can be completed on a more timely basis. The end result is substantial labor expense savings.

High-Strength - The BiFlex Cap membranes are reinforced with fiberglass. The high-strength provided by the fiberglass scrim resists the movement created by today's modern buildings. In addition, the fiberglass scrim in BiFlex Cap membranes provides adequate tensile strength in the machine and cross machine direction. This translates to long-term resistance to splits and tears in the completed BiFlex Cap roof system.

USES

BiFlex Cap membranes are designed for use as the top component in Garland's two (2) ply roofing systems. It can also be used in conjunction with other HPR® products, as well as with any of the FlexBase® line of base sheets. Specifications are available for either hot-or cold-applied systems. They can also be used to repair splits, cracks, and other deteriorated areas in existing asphalt based roofing systems.

APPLICATION

BiFlex Cap membranes can be used with ASTM D 312, Type III or IV asphalt, Garland's HPR All-Temp Asphalt or modified asphalt. One ply of a Garland approved base sheet is solidly bonded to the approved substrate. BiFlex Cap is then solidly adhered to the base layer with mopping asphalt.

BiFlex Cap membranes can also be applied in Garland's cold-applied Weatherking® or Green-Lock® membrane adhesive. One ply of heavy duty Garland approved ASTM D 4601, Type II base sheets are applied in Weatherking or Green-Lock membrane adhesive to the approved substrate. BiFlex Cap is then adhered to these base layers with Weatherking or Green-Lock membrane adhesive.

BiFlex Cap Membranes

Technical Data	BiFlex Cap	BiFlex Cap Mineral
Tensile Strength	MD 100 lbf./in. (17 kN/m) XD 100 lbf./in. (17 kN/m)	MD 100 lbf./in. (17 kN/m) XD 100 lbf./in. (17 kN/m)
Tear Strength	MD 110 lbf. (490 N) XD 110 lbf. (490 N)	MD 110 lbf. (490 N) XD 110 lbf. (490 N)
Elongation	MD 5.0% XD 5.0%	MD 5.0% XD 5.0%
Low Temperature Flex	passes -35°F (-37.2C)	passes -30°F (-34.4°C)

Finished membrane meets and/or exceeds ASTM D 6163, TYPE I
Test Method ASTM D 5147 is tested at:
0.08 in/min @ 0 ± 3.6°F
(2 mm/min @ -18 ± -3°C)

Roll Dimensions	BiFlex Cap Smooth	BiFlex Cap Mineral
Width	3 ft. 3 in. (1m)	3 ft. 3 in. (1 m)
Length	34 ft. 8 in. (10.56 m)	34 ft. 8 in. (10.56 m)
Weight	85 lbs. (38.55 kg)	100 lbs. (45.36 kg)
Nominal Thickness	120 mils (3048 microns)	140 mils (3556 microns)
Net Coverage	100 sq. ft. (9.29 m^2)	100 sq. ft. (9.29 m^2)
Packaging	24 rolls/pallet	20 rolls/pallet

Eco-Facts	BiFlex Cap
Recycled Content	
Pre-Consumer	19%
Post-Consumer	N/A

For specific application recommendations, please contact your local Garland Representative or Garland Technical Service Department.

Installation of this product with hot oxidized asphalt may result in exposure to hazardous chemicals. Special care and attention for proper product installation must be followed in all cases. For specific details refer to the NIOSH safe handling practices in publication No. 2003-107, as well as OSHA standard 1910.134 for further exposure precautions.

VALIDATED
✓ BIFLEX® CAP CONTAINS AN AVERAGE OF 19% PRE-CONSUMER RECYCLED CONTENT

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MIAMI-DADE COUNTY APPROVED

FM APPROVED

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Tests verified by independent laboratories. Actual roof performance specifications will vary depending on test speed and temperature. Data reflects samples randomly collected. ± 10% variation may be experienced. The above data supersedes all previously published information. Consult your local Garland Representative or the home office for more information.