

KEE-Stone® FB 60 Flashing



OVERVIEW & FEATURES

The KEE-Stone FB 60 Flashing is a 60-mil high-performance Ketone Ethylene Ester (KEE) thermoplastic membrane enhanced with DuPont™ Elvaloy® HP for superior flexibility and strength. Under the attractive, bright white surface, this membrane is reinforced with a high tensile strength polyester scrim coated with an enhanced binder for powerful adhesion to the KEE compound. This distinctive composition provides exceptional puncture, tensile and tear resistance while preserving the flexibility of the membrane. A non-woven polyester fleece (6.5 oz. per sq. yd.) is heat bonded to the backside of this membrane for superior adhesion in hot or cold adhesives.

KEE-Stone FB 60 Flashing is designed for use as the top component in a two-ply flashing system. This membrane is used in conjunction with approved Garland modified bitumen base sheets to form a complete flashing system. Specifications are available for both hot- and cold-applied systems.

The KEE-Stone family of products meets and exceeds ASTM D 6754, the standard specification for KEE-based sheet roofing. KEE-Stone's unique KEE formula enhances the performance of standard PVC by making it permanently flexible and locking in the plasticizer to prevent the membrane from drying out and cracking.

Superior Formulation – The KEE-Stone thermoplastic compound is made up of at least 50 percent DuPont™ Elvaloy® HP, creating a membrane with superior long-term weatherability. The KEE-Stone formula is present throughout the entire sheet, providing long-term performance.

UV Resistance & Reflectivity – The remarkable UV protection of KEE-Stone FB 60 Flashing allows the membrane to withstand the most intense UV rays far better than traditional thermoplastic membranes. The bright white finish reflects potentially damaging UV rays on the roof surface, while the Elvaloy formula permanently locks the plasticizer within the membrane to prevent damaging migration that could cause other materials to dry and crack under UV exposure. These reflective properties earned the seal from the Cool Roof Rating Council (CRRC).

Chemical Resistance – The strength of this formula provides extensive chemical resistance properties even in the presence of common rooftop culprits like animal fats, acids, oils, greases, etc. Exposure to harsh chemicals or greases cannot extract the plasticizer from the KEE-Stone membrane, so KEE-Stone FB 60 Flashing is able to maintain long-term chemical resistance.

Breaking Strength – KEE-Stone FB 60 Flashing is reinforced with a high-performance polyester scrim encapsulated with an enhanced binder, which provides a powerful link between the scrim and the KEE compound. The result is a membrane with exceptional tensile strength and elongation performance that provides extraordinary durability and puncture resistance.

Permanent Flexibility – This unique KEE compound provides remarkable elongation and unmatched flexibility in both warm and cold climates. Maintaining low-temperature flexibility down to -40°F (-40°C), KEE-Stone FB 60 Flashing can withstand even the harshest stresses associated with thermal shock and adjust to those stresses without cracking, splitting, or crazing.

APPLICATION

Hot-Applied

For hot applications, KEE-Stone FB 60 Flashing can be installed over Garland-approved modified base sheets with ASTM D 312, Type III or IV asphalt, Garland's HPR® All-Temp Asphalt or Garlastic® KM Plus modified asphalt at a rate of 25 lbs. per 100 sq.ft. For the list of approved modified base sheets, see the KEE-Stone FB 60 Flashing Installation Guidelines. Once the KEE-Stone FB 60 Flashing is installed, heat weld the KEE-Stone Utility Roll over the seam of the membrane. Last, use KEE-Lock Mastic to seal the leading edge of KEE-Stone FB 60 Flashing where it ties into the field of the modified roof. See the KEE-Lock™ Mastic data sheet for application rates of this product.

Cold-Applied

For cold applications, apply KEE-Stone FB 60 Flashing with Garland's cold-applied KEE-Lock™ Foam adhesive. See the KEE-Lock Foam data sheet for coverage rates. Once the membrane is in place, roll the membrane with a single ply roller or a dry paint roller to ensure contact with the adhesive and remove any air pockets from behind the membrane. If the height of the continuous membrane exceeds 36", horizontal reinforcement must be added using screws and plates or a termination bar. Once the KEE-Stone FB 60 Flashing is installed, heat weld the KEE-Stone Utility Roll over the seam of the membrane. Last, use KEE-Lock Mastic to seal the leading edge of KEE-Stone FB 60 Flashing where it ties into the field of the modified roof. See the KEE-Lock Mastic data sheet for application rates of this product.

KEE-Stone® FB 60 Flashing

Technical Data	KEE-Stone FB 60 Flashing
Thickness, min. (ASTM D 751)	0.060 in. (1.5 mm)
Thickness over fiber, min.	0.030 in. (0.762 mm)
Breaking Strength ASTM D 751, proc. B - strip	375 lbf. (1668N)
Elongation at Break ASTM D 751, proc. B - strip	40%
*Breaking Strength, strip	>90% of original
*Elongation at Break, strip	>90% of original
Low Temperature Bend after heat aging (ASTM D 2136)	-40°F (-40°C)
Tearing Strength (ASTM D 751)	120 lbf. min. (534N)
Low Temperature Bend (ASTM D 2136)	-40°F (-40°C)
Static Puncture Resistance (ASTM D 5602)	pass
Puncture Resistance (ASTM D 751)	161 lbs
Factory Seam Strength (ASTM D 751, Grab Method)	620 lbf. min.
Accelerated Weathering Test After 5000-h xenon arc light exposure: (ASTM G 155)	
Cracking (7x magnification)	none
Crazing (7x magnification)	none

Technical Data	KEE-Stone FB 60 Flashing
Accelerated Weathering Test After 5000-h fluorescent UV/condensation exposure: (ASTM G 154)	
Cracking (7x magnification)	none
Crazing (7x magnification)	none

Product meets and exceeds ASTM D 6754

*Retention of properties after heat aging: ASTM D 3045 176°F for 56 days

Roll Dimensions	KEE-Stone FB 60 Flashing
Width	4 ft. (1.2 m)
Length	50 ft. (15.24 m)
Weight	0.49 lbs/ft ² (2.39 kg/m ²)
Nominal Thickness	60 mils
Overall Thickness	105 mils
Net Coverage	200 sq. ft. (18.58 m ²) per roll
Packaging	16 rolls/pallet (individually bagged)

Eco-Facts	KEE-Stone FB 60 Flashing
Reflective	0.87
Emittance	0.88
SRI	110



For more information, visit us at: www.garlandco.com

The Garland Company, Inc.
3800 East 91st Street
Cleveland, OH 44105
FAX: 216-641-0633
Phone: 216-641-7500
Toll Free: 800-321-9336

Garland Canada Inc.
209 Carrier Drive
Toronto, Ontario
Canada, M9W 5Y8
FAX: 416-747-1980
Phone: 416-747-7995
Toll Free: 800-387-5991
(Only in Canada)

The Garland Company UK, LTD
Unit 5 Glevum Works, Upton Street
Gloucester, United Kingdom GL1 4LA
011 44 1452 330 646 (Outside UK)
Toll Free: 0800 328 5560 (Only in UK)

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.

KEE-Stone, HPR, Garlastic, KEE-Lock, Green-Lock are trademarks are trademarks of The Garland Company, Inc. and Garland Canada, Inc.

DuPont™ Elvaloy® are trademarks of E. I. du Pont de Nemours and Company

CRRC is a registered trademark of the Cool Roof Rating Council

© 2016 Garland Industries, Inc.

KS FB60 0916