

OVERVIEW & FEATURES

KEE-Stone NF 60 Flashing is a 60-mil thick, non-fleeceback KEE (Ketone Ethylene Ester) thermoplastic flashing membrane with a lighter and more workable composition for easier installation and durability. KEE-Stone NF 60 Flashing is designed for use as the top component in a two-ply flashing application. This membrane is used in conjunction with approved Garland modified base sheets to form a complete flashing system.

KEE-Stone NF 60 is reinforced with a unique polymer-coated high tensile strength polyester scrim, a distinctive composition that provides exceptional puncture, tensile and tear resistance while preserving the flexibility of the membrane. KEE-Stone meets and exceeds ASTM D 6754, the standard specification for KEE-based sheet roofing.

Superior Chemistry & Manufacturing – Garland's KEE-Stone thermoplastic chemistry uses the industry's highest quality KEE compound for the longest-lasting weatherability. This formula exhibits superior heat resistance while retaining its low-temperature flexibility. While some thermoplastic sheets only add quality KEE above the scrim, KEE-Stone is formulated with KEE throughout the entire sheet because the sheet is only as strong as its weakest point.

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 NF 60 Flashing is able to maintain long-term chemical resistance.

Breaking Strength – KEE-Stone NF 60 Flashing is reinforced with a unique polymer-coated high tensile strength polyester scrim. The result is a membrane with exceptional tensile strength and elongation performance that provides extraordinary durability and puncture resistance.

Long-Lasting & Durable – KEE-Stone exceeds standard weathering tests, standing up against even the harshest weather and UV radiation. In accelerated weathering tests, KEE-Stone shows no sign of cracking or cratering even at 100X magnification, which is 10 times more than the ASTM standard requires. In heat aging tests, KEE-Stone retains more than 90% of its breaking strength, elongation and flexibility.

UV Resistant & Energy Saving – KEE-Stone's white surface and advanced chemistry fight off damaging effects of the sun to protect your building and your wallet. KEE-Stone's bright finish reflects damaging UV rays away from the building, while the KEE formula locks the plasticizer within the membrane to prevent damaging migration that causes fewer materials to dry and crack under UV exposure. These resilient properties earned the seal from the Cool Roof Rating Council (CRRC).

APPLICATION

KEE-Stone NF 60 can be installed over Garland-approved modified base sheets. Adhere one ply of approved Garland modified base sheet solidly to the approved substrate. Apply KEE-Lock™ WB Flashing Adhesive to the exposed side of the already installed base flashing ply and to the backside of the KEE-Stone NF 60 Flashing membrane at a total combined rate of 1.0 -1.5 gallons per 100 sq.ft. (0.4-0.6 l/m²).

- If tying into a KEE-Stone roofing system, leave the bottom 3" free of adhesive to allow for heat-welding of cap flashing membrane to field membrane.
- If tying into a modified bitumen roofing system, apply adhesive to the entire backside of cap flashing membrane.

Once applied to both surfaces, allow a minimum 30 minutes (depending on environmental conditions) for the adhesive to become tacky. Using the fingerpush method, check that the adhesive develops strings, signifying that it has reached ideal tackiness. Once the adhesive is tacky enough, set the KEE-Stone NF 60 Flashing in place on the wall. Immediately roll the surface using a 2 in. wide weighted roller to ensure proper mating of the two surfaces. Once the KEE-Stone NF 60 is adhered, heat-weld seams to seal the membranes together.

STORAGE

Keep rolls in their original packaging and store in a cool, dry area until they are ready to be installed. Store rolls on pallets and keep off the ground. Do not store anything on top of the rolls to prevent creasing or damaging the membrane.

PRECAUTIONS

- Wearing sunglasses is recommended when installing this membrane, as the white surface is highly reflective.
- The roof surface can be slippery when wet. Take care especially around the roof edge.
- Do not cut open the bags to prevent cutting or piercing the membrane.

Technical Data	KEE-Stone NF 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. (1690N)
*Breaking Strength, strip	>90% of original
Elongation at Break ASTM D 751, proc. B - strip	MD 30% XD 35%
*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)	MD 145 lbf. (645 N) XD 200 lbf. (889 N)
Low Temperature Bend (ASTM D 2136)	-40°F (-40°C)

*Retention of properties after heat aging: ASTM D 3045 176° F (80° C) for 56 days

Roll Dimensions	KEE-Stone NF 60 Flashing
Width	4 ft. (1.2 m)
Length	50 ft. (15.2 m)
Weight	0.49 lbs/ft² (2.39 kg/m²)
Thickness	60 mils (1,524 microns)
Net Coverage	200 ft² (18.58 m²) per roll
Packaging	10 rolls/pallet (individually bagged)

Eco-Facts	Initial	Aged
Reflective	0.87	0.75
Emittance	0.88	0.88
SRI	110	93

Technical Data	KEE-Stone NF 60 Flashing
Accelerated Weathering Test After 5000-h xenon arc light exposure: (ASTM G 155)	
Cracking (7x magnification)	none
Crazing (7x magnification)	none
Accelerated Weathering Test After 5000-h fluorescent/condensation exposure: (ASTM G 154)	
Cracking (7x magnification)	none
Crazing (7x magnification)	none



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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.

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