

OVERVIEW & FEATURES

KEE-Stone NF 60 Flashing is a 60-mil thick, non-fleeceback KEE (Ketone Ethylene Ester) thermoplastic, reversible 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 NF 60 Flashing is a reversible (bright white and medium gray colored) membrane and is UV stable on both sides. 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 is reversible in both bright white and medium gray. The white surfacing is designed to reflect damaging UV rays, protecting your building from solar heat gain. The medium gray color offers moderate reflectance, ideal for northern

climates where retaining some solar heat is beneficial, and also helps to hide dirt and debris. For both colors, the KEE formula locks in the plasticizer within the membrane to prevent the damaging migration that causes lesser materials to dry and crack under UV exposure.

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 Flashing Adhesive to the backside of the KEE-Stone NF 60 Flashing membrane at a coverage rate of 3 gallons per 100 sq. ft.(3.7 l/m²).

- a. 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.
- b. If tying into a modified bitumen roofing system, apply adhesive to the entire backside of cap flashing membrane.

Immediately set the KEE-Stone NF 60 Flashing in place on the wall. Roll the surface with a weighted roller to ensure proper mating on 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.



KEE-Stone NF 60 Flashing

60 Mil, Reinforced, Non-Fleeceback KEE-Stone Flashing Roll | Technical Data Sheet



| 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/ft ² (2.39 kg/m ²) | |
| Thickness | 60 mils (1,524 microns) | |
| Net Coverage | 200 ft ² (18.58 m ²) per roll | |
| Packaging | 10 rolls/pallet (individually bagged) | |
| Color | Bright White and Medium Gray (Reversible, both sides UV Stable) | |

ECO-FACTS

| KEE-Stone NF 60 Flashing (Bright White) | | |
|---|---------|------|
| Solar Reflectivity | Initial | Aged |
| Reflectance | 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 |



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)

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 of The Garland Company, Inc. and Garland Canada, Inc.
CRRC is a registered trademark of the Cool Roof Rating Council.