

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

Technical Data	KEE-Stone FB 60 Flashing
<b>Accelerated Weathering Test After 5000-h fluorescent UV/condensation exposure:</b> (ASTM G 154)	
<b>Cracking (7x magnification)</b>	none
<b>Crazing (7x magnification)</b>	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
<b>Width</b>	4 ft. (1.2 m)
<b>Length</b>	50 ft. (15.24 m)
<b>Weight</b>	0.49 lbs/ft² (2.39 kg/m²)
<b>Nominal Thickness</b>	60 mils (1,524 microns)
<b>Overall Thickness</b>	105 mils (2,667 microns)
<b>Net Coverage</b>	200 sq. ft. (18.58 m²) per roll
<b>Packaging</b>	16 rolls/pallet (individually bagged)

Eco-Facts	KEE-Stone FB 60 Flashing
<b>Reflective</b>	0.87
<b>Emittance</b>	0.88
<b>SRI</b>	110



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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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