

OVERVIEW

KEE-Stone Legacy is a sustainably-designed fleece-backed thermoplastic membrane designed for use as the cap sheet in a multi-ply hybrid system incorporating Garland-approved modified bitumen base sheets.

KEE-Stone Legacy is reinforced with a high-performance polymer-coated, high tensile-strength polyester scrim—engineered using recycled plastic bottles—positioned beneath its bright white surface. This sustainable composition preserves the membrane's long-term flexibility while providing exceptional tensile strength and superior resistance to punctures and tears. A 6.5 oz. per sq. yd. polyester fleece is heat-bonded to the backside, providing an ideal surface for high-strength adhesion in both hot and cold applied systems.

KEE-Stone Legacy meets and exceeds ASTM D4434, the standard specification for PVC-based sheet roofing.

FEATURES

Environmentally-Conscious Raw Materials – KEE-Stone Legacy incorporates biobased ELVALOY™ and mass balance technology (MBT) to increase the use of renewable resources while ensuring high level product quality and performance.

Advanced Fire Protection & Compliance – Protecting your facility starts with high-performance chemistry. KEE-Stone Legacy is engineered with a proprietary blend of fire retardants designed to deliver superior resistance in the most demanding environments. Rigorously tested under extreme conditions, KEE-Stone Legacy achieved a UL Class A fire rating—the industry gold standard for commercial safety. This provides uncompromised protection for both combustible and non-combustible decks at slopes up to 3:12, ensuring your assets remain secure.

Sustainably-Focused Design – KEE-Stone Legacy contains 20% recycled content in both the membrane and the reinforcement, helping to reuse and divert materials from landfills. The compound below the scrim has a non-phthalate liquid plasticized compound for improved flexibility and enhanced environmental performance.

APPLICATION

Hot-Applied - KEE-Stone Legacy can be installed over Garland-approved modified base sheets; see the KEE-Stone Installation Guide for a list of approved base sheets. Adhere one ply of approved base sheet solidly to the approved substrate. Adhere KEE-Stone cap sheet using ASTM D312, Type III or IV asphalt or Garlastic® KM Plus modified asphalt at a rate of 25 lbs. per 100 sq. ft. Once the membrane is in place, immediately roll the membrane with a clean, 75 lb. (minimum) weighted roller to ensure proper adhesion and to remove air pockets from under the membrane. Once the KEE-Stone Legacy is adhered, heat-weld and seal the side and head laps using hot air welding equipment and a clean, 2" silicone roller.

Cold-Applied - KEE-Stone Legacy can be installed over Garland-approved modified base sheets; see the KEE-Stone Installation Guide for a list of approved base sheets. Adhere one ply of approved base sheet to the approved substrate. Apply the KEE-Stone Legacy cap sheet using Garland's KEE-Lock™ Spatter Spray (refer to the KEE-Stone Application Guide for more information). Once the membrane is in place, immediately roll the membrane with a clean, 75 lb. (minimum) weighted roller to ensure proper adhesion and to remove air pockets from under the membrane. Once the KEE-Stone Legacy is adhered, heat-weld and seal the side and head laps using hot air welding equipment and a clean, 2" silicone roller.

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.
- To prevent cutting or piercing the membrane, do not cut open the packaging.
- If KEE-Stone installation utilizes KEE-Lock Foam or KEE-Lock Spatter Spray, ambient and substrate temperatures must be 50°F (10°C) and rising.
- When temperatures are lower than 65°F (18.3°C), canister warmers are required for KEE-Lock Spatter Spray.

Technical Data	KEE-Stone Legacy
Thickness (ASTM D751)	0.060 in (1.524 mm)
Thickness over fiber, min.	0.023 in (0.584 mm)
Breaking strength (ASTM D751, proc. B - strip)	MD 589 lbf/in (2565 N)
Elongation at break % (ASTM D751, proc. B - strip)	MD 40% XD 40%
Low temperature flex (ASTM D2136)	-40°F (Pass) (-40°C)
Dynamic puncture resistance (ASTM D751, puncture test)	Pass
Static puncture resistance (ASTM D5602)	Pass
Tear strength, lbf (ASTM D751)	MD 97 lbf (431 N) XD 144 lbf (641 N)
Hydrostatic resistance (ASTM D751, Method A, Procedure 1)	> 600 psi
Accelerated weathering test after 5000-h fluorescent / condensation exposure (ASTM G154)	
Cracking (7x magnification)	None
Crazing (7x magnification)	None

Product meets and exceeds ASTM D4434.

ECO-FACTS

	KEE-Stone Legacy	
Solar Reflectivity	Initial	3-Yr Aged*
Reflectance	0.87	0.75
Emittance	0.88	0.88
SRI	110	93

* Rapid rating values

ROLL DIMENSIONS

Technical Data	KEE-Stone Legacy
Width	8 ft (2.4 m)
Length	100 ft (30.5 m)
Weight	0.49 lbs/ft ² (2.39 kg/m ²)
Nominal thickness	60 mils (1,524 microns)
Overall thickness	105 mils (2,667 microns)
Net coverage	800 sq ft (74.32 m ²) per roll
Packaging	6 rolls/pallet (individually bagged)

ACCREDITATIONS



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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. A ± 10% variation may be experienced. The above data supersedes all previously published information. Consult your local Garland Representative or Garland Corporate Office for more information.

KEE-Stone is a registered trademark of The Garland Company, Inc. ELVALOY™ is a registered trademark of Dow.