KEE-Stone® NF 60 Flashing

60 Mil, Reinforced, Non-Fleeceback KEE-Stone Flashing Application Guidelines

since 1895

DESCRIPTION

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. Made with the same high-performance DuPont™ Elvaloy® HP compound as Garland's KEE-Stone membrane, 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. It's adhered using KEE-Lock™ WB Flashing Adhesive, a water-based acrylic bonding adhesive specifically formulated for KEE-Stone NF 60 Flashing membrane.

APPLICATION

The materials used in a cold-applied system may include Green-Lock® Plus Flashing Adhesive to adhere the modified bitumen base sheet, KEE-Lock WB Flashing Adhesive to adhere the KEE-Stone NF 60 Flashing membrane, and KEE-Lock Mastic and GarMesh® to seal the leading edge of the KEE-Stone membrane where it ties into the field of the roof for mod bit systems. The tie-in will be heat-welded if the field of the roof is KEE-Stone.

APPLICATION EQUIPMENT

Recommended tools for Garland two-ply KEE-Stone NF 60 Flashing system installation for cold applications include:

- Suitable trowel for applying adhesive to flashing details
- Roofer's knife with hooked blade
- Weighted roller
- Hand-held hot air welder
- Seam probing tool to check for small voids

WEATHER CONDITIONS

Do not attempt application if ice, snow, moisture or dew is present. Bonding substrates must be clean, dry and free of dust or other inhibitors of proper adhesion. Cooler temperatures will negatively impact the properties of the system. Contact your Garland representative for proper cold weather applications.

STORAGE

Store pails, kegs and roll goods in their original packaging, indoors on pallets protected from the elements. If stored on the roof, all product needs to be under a tarp at all times. Rolls and containers that are improperly stored or have been warehoused for prolonged periods of time could potentially be damaged.

Important Application Considerations

- Do not install in inappropriate weather or if chances of rain or snow are 30% or greater. If temperatures are lower than 50˚F (10˚C), refer to the cold weather guidelines applied by the NRCA or The Garland Company. Do not install if ambient temperature is below 40°F (4.4°C) or if nighttime temperatures are expected to fall below 32°F (0°C) within 48 hours after application
- Do not apply roofing materials that have been improperly stored or exposed to moisture. IF THE MATERIAL ISN'T BONDING, STOP THE APPLICATION!
- Refer to the roof system specification for complete requirements
- Substrates must be free of dust, dirt, oil, debris and moisture
- Work with manageable lengths of base and cap for the particular job. Where appropriate, cut rolls into 1/3 or 1/2 roll lengths and allow material to relax prior to installation.

FLASHING APPLICATION

Application instructions below are designed as a reference. Applicators must follow specific details contained in the approved project specifications. At all vertical and other flashing details, install one of the approved base sheets mentioned earlier in this document followed by the KEE-Stone NF 60 Flashing membrane extending over the already installed field plies.

Base Flashing Installation

1. Position the base flashing ply where it is ready to be installed
2. Use preferred method to align sheet with install path
3. Apply Green-Lock Plus Flashing Adhesive to the substrate and a min. 6" (152.4mm) onto the field at a rate of 2-3 gallons per 100 sq. ft. (0.82-1.2 l/m^2)
4. Install a 3' (1.0 m) wide Garland approved base flashing ply extending min. 6" (152.4mm) onto the field of the roof
5. Overlap base flashing ply side laps 4" (100 mm)
6. Utilize a clean trowel to apply pressure to all T-laps to seal immediately following base ply application

Cap Flashing Installation

1. Before installing the cap sheet, all dust, dirt or debris must be removed from the base sheet.
2. Position KEE-Stone NF 60 Flashing membrane where the membrane is ready to be installed
3. Use preferred method to align sheet with install path
4. 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/m^2)

   a. If tying into the 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 the cap flashing membrane.
5. Install KEE-Stone NF 60 Flashing ply extending min. 9" (228.6mm) onto the field of the roof and at the desired width depending on the size of the crew handling the membrane. Typical lengths are 15'-18' for easy handling.

   Note: 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.

6. Broom in the KEE-Stone NF 60 Flashing membrane immediately after install to ensure even, continuous contact between the cap and base flashing membranes.
7. On all vertical seams, overlap the membrane a minimim of 3" and heat weld.
8. Complete all inside and outside corner flashing details by fully heat-welding properly formed KEE-Stone Utility Roll.

   Note: Once KEE-Stone Utility Roll has had a chance to bond, utilize a seam probe to check all laps and joints for full adhesion. Check for small voids at laps; if the membrane can be lifted at any area, it is not properly adhered. Any areas not properly bonded require welding or, if necessary, the application of a patch to seal any un-bonded areas that exist.
9. After KEE-Lock WB Flashing Adhesive has set up and vertical seams have been sealed:

   a. If tying into KEE-Stone roofing system, heat weld unadhered edge of the cap flashing ply to KEE-Stone field membrane.

   b. If tying into a modified bitumen roofing system, apply a three-course application of KEE-Lock Mastic and GarMesh at a min. 8" (203.2mm) wide onto the horizontal seam at the base of the wall flashing at a rate of 1/8" (3 mm) thick with GarMesh reinforcement followed by a top coat of 1/8" (3 mm) thick of KEE-Lock Mastic.
10. All vertical flashings shall be terminated a min. 8" (203mm) above the top layer of insulation with an approved termination bar and counter-flashing system. Flashing height for KEE-Stone NF 60 bonded in KEE-Lock WB Flashing Adhesive shall not exceed 40" without proper anchorage and termination.