

# Westlake Royal TileSeal™ HT

## INSTALLATION GUIDE

The following guidelines are provided for the installation of Westlake Royal TileSeal™ HT, however local building codes may differ so please consult with the local building department for any different or additional installation requirements.

### GENERAL GUIDELINES FOR ALL INSTALLATIONS

The deck must be clean, dry, free from loose contaminants, and structurally sound. Westlake Royal TileSeal HT™ underlayment should be installed when ambient and substrate temperatures are 40F (4.4C) or higher.

For tile applications (i) do not use Westlake Royal TileSeal™ HT below a 2½:12 (21% slope) when tiles are mechanically fastened and (ii) do not use Westlake Royal TileSeal HT below 2:12 (17% slope) when using foam adhesive to fasten tiles. Water must be allowed to drain freely from all areas of the roof.

For tile applications outside the High Velocity Hurricane Zone of Florida, Westlake Royal TileSeal™ HT underlayment should be installed in compliance with local building codes and the applicable Tile Installation Manual published by the Tile Roofing Institute. For tile applications in the High Velocity Hurricane Zone of Florida, Westlake Royal TileSeal HT™ underlayment must be installed in accordance with Miami-Dade building codes.

Roof tiles may be loaded directly onto Westlake Royal TileSeal™ HT underlayment up to 6:12 roof pitch. Loading boards or battens are required on roof pitches greater than 6:12.

When using tile fasteners with Westlake Royal TileSeal HT™, the use of modified mastic is optional because Westlake Royal TileSeal HT™ is a self-sealing underlayment based on testing performed pursuant to ASTM D 1970.

When installing higher profile tiles with a closed tile valley detail, it may be necessary to consider the potential exposure of the Westlake Royal TileSeal HT™ underlayment in regions where the valley metal is installed first. While it may take extended time periods for the surface mat to show any signs of degradation due to partial exposure to UV rays, it should be noted that in most cases where a double weave of the valley has been used, there will still be plenty of protection from the SBS modified base material. In the interests of good roofing practice, a narrow strip of an approved granular surface modified type cap sheet may be applied in the valley center prior to the tile installation.

Some codes require an additional base sheet under Westlake Royal TileSeal™ HT. Check your local building codes.

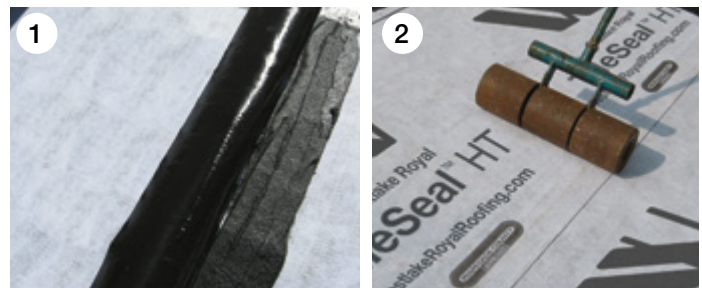
### 2-PLY OR MULTI-PLY SYSTEMS WITH A BASE SHEET

Install a code approved base sheet onto the entire roof surface according to local code and manufacturer's instructions. Apply the metal drip edge and other flashings over the base sheet. Coat entire metal surface of deck flange with asphalt primer.

Apply Westlake Royal TileSeal™ HT underlayment to the roof, starting at the eave. The first course of Westlake Royal TileSeal™ HT underlayment should be parallel and flush to the edge of the eave.

Fasten the top of each sheet to the deck through the black selvage lap maximum 12" on center with approved fasteners. Apply each succeeding course of Westlake Royal TileSeal™ HT underlayment, lapping the entire width of the black selvage area.

Apply SBS mastic under all laps onto the top white surface of Westlake Royal TileSeal™ HT. (Pic 1) All end laps must be minimum 6". Use a roller to insure complete adhesion to the base sheet. (Pic. 2)



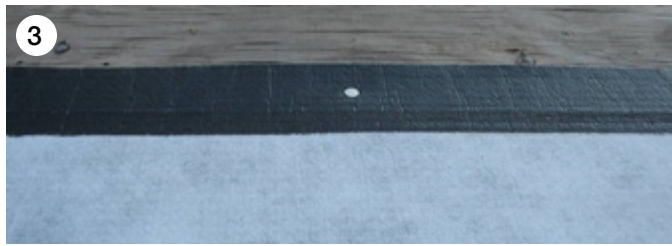
### SINGLE PLY (DIRECT TO DECK)

Westlake Royal TileSeal™ HT may be self-adhered to primed or unprimed plywood, primed or unprimed oriented strand board (OSB), Huber ZIP System® Roof Sheathing, or DensDeck® Prime Roof Boards. Primer must conform to ASTM D 41 and primer manufacturer's installation instructions must be followed.

If an additional sheet is not used under Westlake Royal TileSeal™ HT underlayment, use a separator/slip sheet between metal and deck where required by code, and coat the roof flange as described above. Install Westlake Royal TileSeal™ HT underlayment in all valleys by either weaving or by first applying a strip down the length of the valleys as shown below. When weaving the underlayment in the valleys, the upper edge of the underlayment must be at least 12" past the center of the valley. See Valley Options section.

Apply Westlake Royal TileSeal™ HT underlayment to the roof, starting at the eave. The first course of Westlake Royal TileSeal™ HT should be parallel and flush to the edge of the eave. Use a roller to insure complete adhesion to the roof deck. (Pic. 2)

Fasten the black selvage area at the top of the sheet at 12" on center. (Pic. 3) Apply each succeeding course of Westlake Royal TileSeal™ HT, lapping the entire width of the black selvage area.



It is necessary to seal all end laps using one of the following methods:

The first is to apply SBS modified mastic under all laps and onto the top white surface of Westlake Royal TileSeal™ HT to ensure a completely watertight seal. All laps must be minimum 6".

Alternatively, an Inverted Sheet Seam may be made by adhering the ends onto an inverted sheet that has been fastened to the roof deck.

**Inverted Sheet Seam (not allowed in Hurricane Zones)**

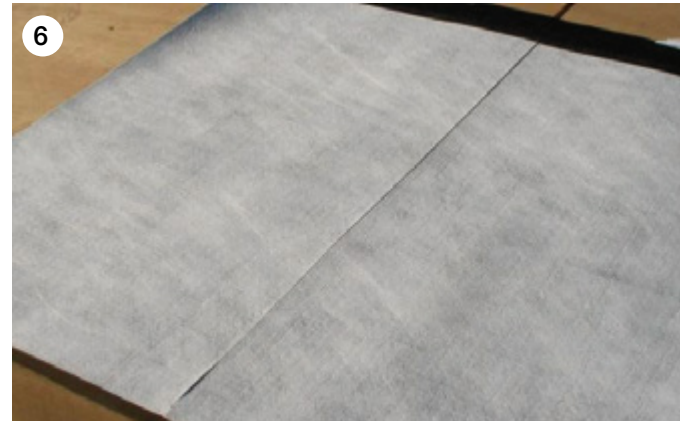
Cut a 12" strip of Westlake Royal TileSeal™ HT and invert (flip over) on the roof deck in a position that half will be under the end of the adjoining sheets. Tack the strip into place before setting the sheets. (Pic. 4)



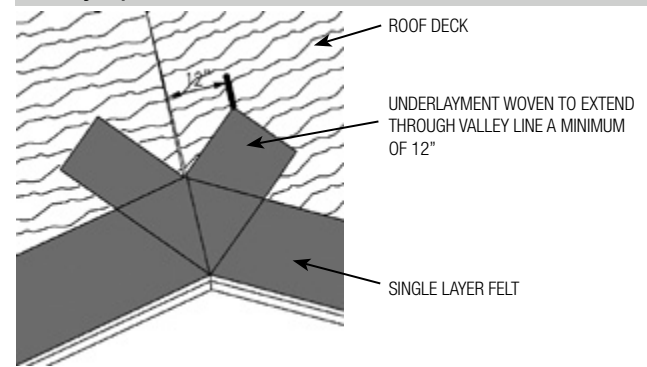
Lap the adjoining sheets onto the inverted strip and press the sheets together to form a solid bond. Roll the seams with a seam roller to assure complete adhesion. (Pic. 5)



Completed Inverted Sheet Seam (Pic. 6)



**Valley Option 1**



**Valley Option 2**

