



## INSTALLATION

### General

Installation of HomeGuard ToughSkin underlayments must comply with the applicable building codes, this report and the manufacturer's published installation instructions. The installation instructions must be available at the jobsite at all times during installation.

Prior to application of HomeGuard ToughSkin, the deck surface must be dry and free of dust, dirt, loose nails and other protrusions. Damaged sheathing must be repaired or replaced.

### Application

HomeGuard ToughSkin underlayments are designed for roofing slopes of 2:12 and higher and should be installed printed side up and horizontal (parallel) to the eave, starting at the lowest eave point. For low slope applications; usually defined as between 2:12 to 4:12 it is recommended to overlap 50% plus 1", for complete definition of low slope and guidelines consult local building code officials.

ToughSkin® Synthetic Underlayments are designed for use under: Asphalt or Synthetic Shingles, Metal Roofing in residential applications, and Cedar Shakes that have been back primed.

Metal drip edge should be placed under HomeGuard ToughSkin at the eave and over HomeGuard ToughSkin along the rake edge. If eave metal will be installed after the underlayment is applied, the first row of fasteners should be placed 3-inches (76 mm) up from the eave so that the metal edging can be slipped under the underlayment before nailing.

Horizontal overlaps should be 4-inches (102 mm) running with the flow of water in a shingle fashion. Vertical end overlaps should be 6-inches (152 mm).

HomeGuard ToughSkin may be installed using standard roofing nails having a 3/8-inch (9.5 mm) diameter head. Low profile plastic or metal cap nails with 1-inch (25.4 mm) caps are recommended and may be used when preferred or required by local codes. Fasteners should be long enough to penetrate through the sheathing or a minimum of 3/4 inch (19.1 mm) into solid decking and should only be installed flush to the surface of the product. Corrosion Resistant Staples may be used for same day installations on slopes 2:12 to 12:12; and are permitted only when the final roof covering is to be applied immediately afterwards; otherwise warranty is voided. Pneumatic staple guns are not recommended and will void the warranty if fastener is countersunk through the product.

For standard application, fasteners are spaced 12-inches (305 mm) along the top, bottom and side laps and 24-inches (610 mm) along two rows staggered and spaced 1/3 and 2/3 up into the field of the underlayment.

If HomeGuard ToughSkin underlayment will be left exposed for more than three days or if severe weather is predicted before shingles will be installed, fasteners should be spaced 6-inches (153 mm) along the top, bottom and side laps and every 12-inches (305 mm) along two rows staggered and spaced 1/3 and 2/3 up into the field of the underlayment. The correct fastener placement is clearly marked on the surface of HomeGuard ToughSkin underlayment – for both installations.

In areas subject to high winds, underlayment fastening must comply with the high-wind attachment requirements specified in IBC Section 1507 or IRC Section R905.

### Classified Roofs

Under the 2015, 2012 and 2009 IBC & IRC, the roofing underlayments may be used as components of classified roof assemblies consisting of Class A or C glass fiber mat shingle or Class C asphalt organic felt shingle complying with the applicable code, when installed in accordance with this report over a minimum 5/8-inch thick (15.9 mm) plywood deck.

Under the 2006 IBC, the underlayment may also be used in Class A or Class B roof assemblies that utilize the roof coverings specified in the exception to Sections 1505.2 and 1505.3. Under the 2006 IRC, the underlayment may be used with roof coverings of brick, masonry, slate, clay or concrete roof tile; concrete roof deck, ferrous or copper shingles or sheets, and metal sheets and shingles where such roof coverings are permitted to be used in lieu of a Class A assembly under Section 902.1.

### Ice Barrier

In areas of the roof where an ice and water barrier is required under the IBC or IRC, a self-adhered polymer modified bitumen sheet complying with ASTM D1970, or an underlayment recognized for use as an ice barrier in a Code Evaluation Report, must be applied over the solid substrate in sufficient courses so that the underlayment extends up the roof a minimum distance of 24 inches (610 mm) inside the interior wall line of the building. HomeGuard ToughSkin underlayment is installed above the ice dam protection with a 4-inch (102 mm) horizontal lap.

