

# Technical Data Sheet

## Highland Slate® IR (Impact Resistant Shingles)



### PRODUCT INFORMATION

Highland Slate (R (Impact Resistant) shingles are especially designed for high performance and classic beauty at an affordable price. Features an oversized shingle, extra-heavy mat, a technologically advanced sealant, and they meet UL 2218 Class 4 Impact Resistance at time of manufacture. Highland Slate IR is perfect for both residential and commercial applications and is warranted to withstand winds up to 110-mph (a category 2 hurricane).



Highland Slate IR shingles are algae resistant and help protect against staining or discoloration caused by algae.

**Colors:** Please refer to product brochure or CertainTeed website for the colors available in your region.

**Limitations:** Use on roofs with slopes 2" per foot or greater. Low slope applications (2" to 4" per foot) require additional underlayment. In areas where icing along the eaves can cause the back-up of water, apply CertainTeed WinterGuard® Waterproofing Shingle Underlayment, or its equivalent, according to application instructions provided with the product and on the shingle package. On slopes greater than 21" per foot, apply eight 1" diameter spots of asphalt roofing cement (ASTM D 4586 Type II) under the shingle tab corner, according to application instructions provided on the shingle package. For Class 4 impact resistance, Highland Slate IR shingles must be applied according to the instructions indicated below, in a new roof or tear-off application, and *not* by "roofing over" existing shingles.

**Product Composition:** Highland Slate IR shingles are composed of a fiber glass mat base. Ceramic-coated mineral granules are tightly embedded in carefully refined, water-resistant asphalt. These fiber glass based shingles have two stripes of self-sealing adhesive. The back of the tabs contains an impact resistant fiber glass scrim

### Applicable Standards:

ASTM D3018 Type I  
ASTM D3462  
ASTM E108 Class A Fire Resistance  
ASTM D3161 Class F Wind Resistance  
ASTM D7158 Class H Wind Resistance  
UL 790 Class A Fire Resistance

ICC-ES ESR-1389 and ESR-3537  
CSA Standard A123.5  
Miami-Dade Product Control Approved  
Florida Product Approval # FL5444  
TDI Windstorm Resistance  
UL 2218 Impact Resistance Class 4

### TECHNICAL DATA

Weights and Sizes:  
Weight/Square (approx.): 240 lb.  
Dimensions (overall): 18" x 36"  
Shingles/Square: 50  
Weather Exposure: 8"

### INSTALLATION

Detailed installation instructions including diagrams are supplied on each bundle of Highland Slate IR shingles or separate application sheets may be obtained from CertainTeed. The following is a general summary of the installation methods. NOTE: Refer to application instructions supplied with the shingles for further information and application procedure.

**Roof Deck Requirements:** Apply shingles to minimum 3/8" thick plywood, minimum 7/16" thick non-veneer (E.g. OSB), or minimum 1" thick (nominal) wood decks. The plywood or non-veneer decks must comply with the specifications of APA-The Engineered Wood Association.

**Ventilation:** Provisions for ventilation should meet or exceed current HUD Standards. To ensure adequate balance ventilation, use a combination of continuous ridge ventilation (using CertainTeed Ridge Vent products, or a comparable product with an external baffle) combined with soffit venting.

**Valleys:** Valley liner must be applied before shingles. The "Closed-Cut" valley application method is recommended, using CertainTeed WinterGuard Waterproofing Shingle Underlayment, or its equivalent, to line the valley prior to being fully covered by the shingles.

**Underlayment:** At standard slopes (4" per foot or greater) DiamondDeck® Synthetic Underlayment or a single layer of Roofers' Select™ High-Performance shingle underlayment (or product meeting ASTM D 4869 or ASTM D6757) is recommended. Always ensure sufficient deck ventilation, and take particular care when DiamondDeck or other synthetic underlayment is installed. For UL fire rating, underlayment may be required. Corrosion-resistant drip edge is recommended and should be placed over the underlayment at the rake and beneath the underlayment at the eaves.

On low slopes (2" to 4" per foot), apply CertainTeed WinterGuard Waterproofing Shingle Underlayment or its equivalent, or two layers of 36" wide felt shingle underlayment (Roofers' Select High-Performance Underlayment or product meeting ASTM D 4869 or ASTM D 6757) lapped 19", over entire deck according to the application instructions provided with the product. When DiamondDeck is used, lap product at least 20". When WinterGuard is applied to the rake area, the drip edge may be installed under or over WinterGuard. At the eave, when WinterGuard does not overlap the gutter or fascia, the drip edge should be installed under WinterGuard. When WinterGuard overlaps the fascia or gutter, the drip edge or other metal must be installed over it. Always ensure sufficient deck ventilation, and take particular care when DiamondDeck or other synthetic underlayment is installed.

**Fastening:** Five nails are required per shingle. The end nails are to be located 9 3/8" above the bottom edge of the shingle, 1" in from each side of the shingle. The interior nails are to be located 8 11/16" above the bottom edge of the shingle and above the cutouts. Nails must be of sufficient length to penetrate into the deck 3/4" or through the thickness of the decking, whichever is less. Nails are to be 11 or 12 gauge, corrosion-resistant roofing nails with 3/8" heads at the eaves. If Miami-Dade acceptance is desired, six nails must be used, located as shown on shingle wrap. Staples are not allowed.

**Application:** The recommended application method is the 4-1/2" Stepped-Off, Single-Column Vertical-Racking Method found on each bundle of shingles. The weather exposure of these shingles is 8". All shingles on the finished roof must be applied with five fasteners. In order to maintain the UL 2218 Class 4 impact rating, these shingles must be installed in new construction or in tear-off applications. If Class 4 impact resistance is not necessary, Highland Slate IR shingles may be applied by "roofing-over" existing shingles by following the instructions for standard Highland Slate shingles. In such a case, the product's Class 4 impact resistance classification will be lost.

**Flashing:** Use corrosion-resistant metal flashing. Please refer to illustration on our shingle packaging.

**Hips and Ridges:** Use CertainTeed Cedar Crest IR UL 2218 Class 4 impact resistant shingles of a complementary color for capping hips and ridges. As an alternative hip or ridge cap, cut Highland Slate IR shingles at the cutouts into four 9" wide pieces, tapering the headlap if desired.

#### **MAINTENANCE**

Highland Slate IR shingles require virtually no maintenance when installed according to manufacturer's application instructions. However, to protect the investment, any roof should be routinely inspected at least once a year. Older roofs should be looked at more frequently.

#### **WARRANTY**

Highland Slate carries a lifetime limited transferable warranty against manufacturing defects to the consumer. In addition, Highland Slate IR also carries 10-year SureStart™ Protection and a 10-year Limited Wind Warranty up to 110-mph. For specific warranty details and limitations, refer to the warranty itself (available from the local supplier, roofing contractor or on-line at [www.certainteed.com](http://www.certainteed.com)).

#### **FOR MORE INFORMATION**

Sales Support Group: 800-233-8990    Web site: [www.certainteed.com](http://www.certainteed.com)

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