

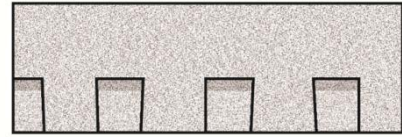
Technical Data Sheet

Landmark® IR (Impact Resistant) Shingles



PRODUCT INFORMATION

Landmark IR (Impact Resistant) shingles reflect the same high manufacturing standards and superior warranty protection as the rest of CertainTeed's line of roofing products, and they meet UL 2218 Class 4 Impact Resistance at time of manufacture. Landmark IR shingles are built on the industry's toughest fiber glass mat base, and have an added durable reinforcement on its underside to achieve the highest (Class 4) impact resistance. Complex granule color blends and subtle shadow lines produce a distinctive color selection. Available in "Metric" dimensions – 13 1/4" x 38 3/4". This product also features CertainTeed's NailTrak® that offers a wider nailing area.



Landmark IR shingles are algae (commonly called fungus) resistant and help protect against dark or black discoloration, sometimes called staining or streaking, caused by blue-green algae.

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

Limitations: Use on roofs with slopes greater than 2" per foot. Low-slope applications (2" to 4" per foot) require additional underlayment. In areas where icing along 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. For Class 4 impact resistance, Landmark 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: Landmark IR shingles are composed of a fiber glass mat base. Ceramic-coated mineral granules are tightly embedded in carefully refined, water-resistant asphalt. Two pieces of the shingle are firmly laminated together in special tough asphaltic cement. The backer shim contains an impact resistant reinforcement. All Landmark IR shingles have self-sealing adhesive strips.

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

TDI Windstorm Resistance

UL 790 Class A Fire Resistance

UL 2218 Class 4 Impact Resistance

ICC-ES ESR-1389 & ESR-3537

Miami-Dade Product Control Approved

Florida Product Approval # FL5444

Technical Data:

Weight/Square (approx.)	250
Dimensions (overall)	13 1/4" x 38 3/4"
Shingles/Square	66
Weather Exposure	5 5/8"

INSTALLATION

The following is a general summary of the installation methods. Detailed installation instructions are supplied on each bundle of Landmark IR shingles and must be followed. Separate application sheets may also be obtained from CertainTeed.

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:

On slopes 4" per foot or greater, CertainTeed recommends one layer of DiamondDeck® Synthetic Underlayment, or Roofers' Select® High-Performance shingle underlayment, or shingle underlayment meeting ASTM D226, D4869 or ASTM D6757. 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. Follow manufacturer's application instructions.

On low slopes (2" up to 4" per foot), one layer of CertainTeed's WinterGuard Waterproofing Shingle Underlayment (or equivalent meeting ASTM D1970) or two layers of 36" wide felt shingle underlayment (Roofers' Select® High-Performance Underlayment or product meeting ASTM D226, D4869 or ASTM D6757) lapped 19" must be applied over the entire roof, ensure sufficient deck ventilation. When DiamondDeck or other synthetic underlayment is installed, weather-lap at least 20" and ensure sufficient deck ventilation. 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. Follow manufacturer's application instructions.

Fastening (NailTrak):

Low & Standard Slopes: On low and standard slopes, four nails are required per shingle. There are three nail lines on NailTrak shingles. Position nails vertically between the upper and lower nailing-guide lines. It is acceptable to nail either between the middle and lower lines or between the upper and middle lines. Nails must be of sufficient length to penetrate into the deck 3/4" or through the thickness of the decking, whichever is less. They are to be located 1" and 12" in from each side of the shingle (see instructions on product wraps.) Nails are to be 11 or 12 gauge, corrosion-resistant roofing nails with 3/8" heads.

Steep Slopes: On slopes greater than 21" per foot, fasten each shingle with six nails and four spots of roofing cement placed under each shingle according to application instructions provided on the shingle package. Fasteners must penetrate the two-layer common bond area that is indicated by the middle and lower NailTrak lines, also illustrated on the shingle package.

Application: The recommended application method is the 'Five-Course, Diagonal Method' found on each bundle of shingles. In this method, shingle course offsets are 6" and 11". Instructions also may be obtained from CertainTeed. For Class 4 impact resistance, Landmark IR shingles must be applied according to the instructions indicated above, in a new roof or tear-off application, and *not* by "roofing-over" existing shingles.

Flashing: Use corrosion-resistant metal flashing.

Hips and Ridges: Use CertainTeed XT™ 30 IR (Impact Resistant) roofing shingles of a like color for capping hips and ridges.

MAINTENANCE

Landmark IR shingles do not require 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

Landmark IR shingles carry a Lifetime Limited Warranty, 10-year SureStart™ protection, and a 10-year 110 mph wind-resistance warranty (upgradeable to 130 mph when using CertainTeed starter and CertainTeed hip and ridge), and 10 year algae resistance warranty. 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).

FOR MORE INFORMATION

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Web site: www.certainteed.com

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