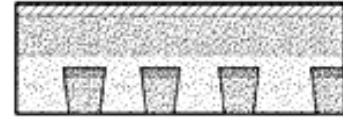


PRODUCT INFORMATION

Landmark Solaris' innovative technology puts color where white used to be and produces a shingle that reflects solar energy, even in dark shades. All colors are rated by Cool Roof Rating Council (CRRC) for cool roofs and meet California's Title 24 requirements for cool steep slope roofing. All Solaris colors have a Solar Reflectance (SR) of 25 or greater, thus complying with Energy Star® requirements and qualifying for the ARRA tax credit. Further, all Solaris colors have a Solar Reflective Index (SRI) of 29, which qualifies them for a USGBC LEED®-NC "point" under Urban Heat Island (Roofs)! Landmark Solaris shingles are manufactured using the same high standards as all CertainTeed roofing products and are covered by the same superior warranty protection. These shingles are available in "Metric" dimensions – 13 1/4" x 38 3/4". Landmark Solaris is produced with the unique WideTrack QB™ nailing feature. *Please see installation instruction section below for important information regarding WideTrack QB.*



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.

Product Composition: Landmark Solaris shingles are composed of a fiber glass mat base. Ceramic-coated mineral granules with high solar reflectance are tightly embedded in carefully refined, water-resistant asphalt. Two pieces of the shingle are firmly laminated together in a special tough asphaltic cement. All Landmark shingles have self-sealing adhesive strips.

Applicable Standards

ASTM D 3018 Type I	NYC-MEA-120-79-M
ASTM D 3462	ICC Evaluation Report ESR-1389
ASTM E 108 Fire Resistance: Class A	CSA Standard A123.5-98 (& -05)
ASTM D 3161-08b, Class "F" Wind Resistance	Ontario BMEC Auth. 97-10-219
ASTM D 3161-03b (&-06), Class "F" Wind Resistance	Miami-Dade Product Control Approved
ASTM D 7158 Class "H" Wind Resistance	Florida Product Approval # FL5444
UL 2390/ASTM D6381 Class "H" Wind Resistance	Energy Star Rated
UL 790 Fire Resistance: Class A	CA Title 24, Part 6 (Cool Steep Slope Roofing)
UL 997 Wind Resistance	USGBC LEED®-NC

Technical Data:

Weight/Square (approx.)	300 lb	Shingles/Square	66
Dimensions (overall)	13 1/4" x 38 3/4"	Weather Exposure	5 5/8"

Landmark Solaris Color Blend Name	CRRC Rated Initial SR	CRRC Rated Initial TE	CRRC Product ID No.	Solar Reflective Index (SRI)*	Energy-Star Rated
Max Def Resawn Shake	0.26	0.88	0668-0051	29	YES
Max Def Burnt Sienna	0.26	0.91	0668-0053	29	YES
Max Def Heather Blend	0.26	0.93	0668-0054	29	YES
Max Def Weathered Wood	0.26	0.90	0668-0050	29	YES
Dusky Clay	0.26	0.93	0668-0057	29	YES
Sunset Shake	0.26	0.92	0668-0056	29	YES
Aged Cedar	0.26	0.92	0668-0055	29	YES
Crystal Gray	0.27	0.92	0668-0058	31	YES

*Solar Reflective Index (SRI) is calculated by ASTM E1980, using TE data obtained by ASTM E408. Roofing shingles with SRI ≥ 29 can qualify for a USGBC LEED®-NC Urban Heat Island point.

Technical Data Sheet (Continued)

Landmark Solaris Shingles

INSTALLATION

Installation instructions, including diagrams, are supplied on each bundle of shingles, or separate application sheets may be obtained from CertainTeed. Following is a general summary of the installation methods.

NOTE - Refer to application instructions supplied with the shingles for further information and procedures.

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 best insure adequate ventilation, use a combination of continuous ridge ventilation (using Ridge FilterVent or Ridge Filter ShingleVent II, manufactured by Air Vent Inc, or a comparable product with an external baffle) and balanced 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) a single layer of Roofers' Select™ High-Performance shingle underlayment (or product meeting ASTM D 4869 or ASTM D 6757) is recommended. 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 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.

Fastening (WideTrack QB™): On low and standard slopes, four nails are required per shingle. There are three nail lines on WideTrack QB shingles. Position nails vertically between the upper and lower nailing-guide lines. For low and standard slopes, it is acceptable to nail between either 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 1" diameter spots of asphalt roofing cement (ASTM D 4586) placed under each shingle according to application instructions provided on the shingle package. Fasteners must penetrate the two-layer common bond area, also illustrated on the shingle package.

Application: The recommended application method is the 'Five-Course, Diagonal Method (Metric)' found on each bundle of shingles. In this method, shingle course offsets are 6" and 11". Instructions also may be obtained from CertainTeed. These shingles may be used for new construction or for reroofing over old Metric-sized shingles.

Flashing: Use corrosion-resistant metal flashing.

Hips and Ridges: Use CertainTeed Solaris™ Hip & Ridge Accessory (West Coast) or Solaris™ Accessory (East Coast) of a like color for capping hips and ridges.

Technical Data Sheet (Continued)

Landmark Solaris Shingles

MAINTENANCE

These 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 Solaris shingles carry a Lifetime Limited Warranty, 10-year SureStart protection, and a 10-year 90 mph wind-resistance warranty (upgradeable to 130 mph when using CertainTeed starter and CertainTeed hip and ridge). 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

Sales Support Group: 800-233-8990

Web site: www.certainteed.com

See us in Sweets and ARCAT printed and electronic publications

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