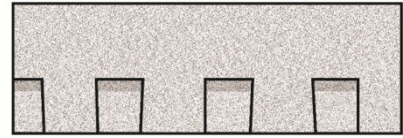


PRODUCT INFORMATION

Landmark Solaris innovative technology produces a shingle that reflects solar energy in a traditional color palette. All colors are rated by Cool Roof Rating Council (CRRC) and meet California’s Title 24 requirements for cool steep slope roofing. 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". This product also features CertainTeed’s NailTrak® that offers a wider nailing area.



Landmark Solaris algae-resistant (AR) shingles have the additional attribute of resisting the growth of algae especially in damp regions. AR shingles are not available in all regions.

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

Color	Solar Radiative Properties						Meets California Title 24?	Energy Star Certified?	
	CRRC Product ID#	Solar Reflectance		Thermal Emittance		Solar Reflective Index			
		Initial	Aged	Initial	Aged	Initial			Aged
Crystal Gray	0668-0058	0.27	0.26	0.92	0.90	29	27	Yes	Yes
Aged Cedar	0668-0055	0.26	0.24	0.92	0.90	28	24	Yes	No
Dusky Clay	0668-0057	0.26	0.23	0.93	0.90	28	23	Yes	No
Sunset Shake	0668-0056	0.26	0.23	0.92	0.90	28	23	Yes	No
Adobe	0668-0091	0.26	pending	0.92	pending	28	25*	Yes	No
Mauna Loa	0668-0092	0.25	pending	0.92	pending	26	25*	Yes	No
Sedona	0668-0094	0.27	pending	0.92	pending	29	26*	Yes	No
Georgetown Gray	0668-0116	0.20	pending	0.91	pending	19	19*	Yes	No
Heather Blend	0668-0117	0.20	pending	0.91	pending	19	19*	Yes	No
Resawn Shake	0668-0118	0.19	pending	0.92	pending	19	19*	Yes	No
Weathered Wood	0668-0119	0.20	pending	0.91	pending	19	19*	Yes	No

*Aged SRI is calculated using the California Energy Commission’s Solar Reflective Index (SRI) Calculation Worksheet

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 special tough asphaltic cement. All Landmark Solaris shingles have self-sealing adhesive strips.

Applicable Standards:

- | | |
|------------------------------------|---|
| ASTM E108 Class A Fire Resistance | ASTM D7158 Class H Wind Resistance |
| UL 790 Class A Fire Resistance | CSA Standard A123.5 |
| ASTM D3462 | ICC-ES ESR-1389 & ESR-3537 |
| ASTM D3018 Type I | Florida Product Approval # FL5444 |
| ASTM D3161 Class F Wind Resistance | California Title 24, Part 6 Compliant (Steep Slope) |

Technical Data:

Weight/Square (approx.)	228 lb	Shingles/Square	66
Dimensions (overall)	13 1/4" x 38 3/4"	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 Solaris 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 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. These shingles may be used for new construction or for reroofing over existing Metric-sized shingles.

Flashing: Use corrosion-resistant metal flashing.

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

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 110 mph wind-resistance warranty (upgradeable to 130 mph when using CertainTeed starter and CertainTeed hip and ridge), and 15 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

Sales Support Group: 800-233-8990
Web site: www.certainteed.com

CertainTeed Roofing
20 Moores Road
Malvern, PA 19355

© Copyright CertainTeed Corporation, 2017
All rights reserved. Updated: 02/2017

CertainTeed
SAINT-GOBAIN