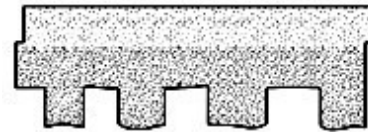


Technical Data Sheet

Presidential TL Solaris® Shingles

PRODUCT INFORMATION

Presidential TL 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. These shingles are manufactured using the same high standards as all CertainTeed roofing products and are covered by the same superior warranty protection.



Presidential TL Solaris shingles, with unique sculptured tabs, provide the distinct styling, depth and dimension of wood shakes. It is constructed using three laminated layers of the industry's strongest, most durable roofing materials and is designed to resist blow off in high wind conditions up to 110-mph with normal installation and 130-mph with special installation.

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

Color	Solar Radiative Properties						
	CRRC Product ID	Solar Reflectance		Thermal Emittance		Solar Reflective Index	
		Initial	Aged	Initial	Aged	Initial	Aged
Autumn Blend	0668-0127	0.21	Pending	0.92	Pending	21	Pending
Charcoal Black	0668-0132	0.18	Pending	0.93	Pending	18	Pending
Country Gray	0668-0128	0.21	Pending	0.92	Pending	21	Pending
Shadow Gray	0668-0134	0.18	Pending	0.92	Pending	17	Pending

Limitations: Use on roofs with slopes greater than or equal to 2" per foot. Low-slope applications (2:12 to < 4:12) 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.

On slopes greater than 21" per foot, use nine nails and apply spots of roofing cement under each shingle tab, according to application instructions provided with the product and the shingle package.

Product Composition: Presidential TL 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. The laminated pieces are firmly adhered in special tough asphaltic cement. These fiber glass based shingles have self-sealing adhesive applied.

Applicable Standards:

- ASTM D3018 Type 1
- ASTM D3462
- ASTM E108 Class A Fire Resistance
- ASTM D3161 Class A Wind Resistance
- ASTM D7158 Class H Wind Resistance
- UL 790 Class A Fire Resistance
- CSA Standard A123.5
- ICC-ES ESR-1389 & ESR-3537
- Meets TDI Windstorm Requirements

Technical Data:

Weight/Square (approx.):	472 lb.
Dimensions (overall):	14 1/4" x 40"
Shingles/Square:	90
Weather Exposure:	4"

INSTALLATION

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

IMPORTANT NOTE - Presidential Starter or an approved alternative starter system must be used for the two-layered starter course.

Roof Deck Requirements: Apply shingles to minimum 3/8" thick plywood, minimum 7/16" thick non-veneer, 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: Open valley is recommended. Valley liner must be applied before shingles. It must be minimum 18" wide 16 oz. copper, or its equivalent, installed over 36" wide self-adhering CertainTeed WinterGuard Waterproofing Shingle Underlayment (apply directly to deck), or applied over 36" wide mineral surfaced roll roofing. After WinterGuard has been applied, install the 16-oz. copper centered in the valley. For application of copper valley, use copper cleats or large head copper nails. Closed-Cut valley application is an acceptable alternate, provided the shingles are not damaged while being formed into place. Refer to the application instructions on the shingle packaging for further information.

Underlayment:

On slopes 4" per foot or greater, CertainTeed recommends one layer of DiamondDeck® or RoofRunner™ Synthetic Underlayment, 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 (2:12 to < 4:12), one layer of CertainTeed's WinterGuard Waterproofing Shingle Underlayment (or equivalent meeting ASTM D1970) **MUST BE APPLIED OVER THE ENTIRE ROOF**. One layer of felt or synthetic underlayment meeting ASTM D226, D4869 or ASTM D6757 applied over the REQUIRED WinterGuard is also recommended. **IMPORTANT:** Applying two layers of felt or synthetic underlayment IS NOT an acceptable alternative to WinterGuard.

Fastening:

Low and Standard Slopes: For slopes of 21" per foot or less, five fasteners are required per shingle. Nails are to be located on the nailing guide line, 9" above the lowermost edge of the shingle, two located 1 to 1-1/2" in from each edge and the remaining three evenly spaced between (about 9" to 10" apart). Nails must be of sufficient length to penetrate into the deck 3/4" into 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.

Steep Slope: For roof slopes greater than 21" per foot, nine fasteners are required per shingle. After applying 5 nails in nailing guideline, apply 4 nails 1" above tab cutouts, making certain tabs of overlying shingle covers nails. Also at slopes greater than 21" per foot, apply spots of roofing cement under each shingle tab, according to application instructions provided for the product and on the shingle package.

Standard Application: Presidential Starter or an approved alternative starter system must be used for the two-layered starter course. The required application method is the 5" & 15" Offset, Four-Course, Diagonal Method found on each bundle of shingles. These shingles may be used for new construction or for reroofing over one layer of old shingles, but due to the heavy weight of this shingle, it is important to determine that the roof deck system is satisfactory for the application of these shingles. Refer to product wrap for detailed reroofing limitations. All shingles on the finished roof must be applied with five fasteners. Always cut shingles from the left edge.

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

Hips and Ridges: Use Mountain Ridge® 10" AR Solaris shingles of a complementary color for capping the hips and ridges.

MAINTENANCE

Presidential TL Solaris 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

Presidential TL 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 Presidential starter and a CertainTeed brand hip and ridge accessory shingle. 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

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