

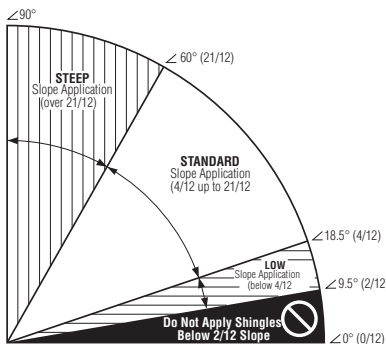


Read Before You Start Application

To obtain stated area coverage and to achieve designed performance, these directions must be followed, including 4" (100 mm) exposure to weather.

Presidential Solaris shingles conform to:

ASTM D3462
ASTM D3018 Type I
ASTM E108 Class A Fire Resistance
ASTM D3161 Class F Wind Resistance
UL 997 Wind Resistance
UL 2390/ASTM D6381 Class H Wind Resistance
ASTM D7158 Class H Wind Resistance
NYC-MEA-120-79-M
CSA Standard A123.5-98 (& -05)
Florida Approval FL5444 (minimum 5 nails)
TDI Windstorm Resistance



Slope Restrictions

The roof deck must be at least: 3/8" (9.5 mm) thick plywood or 7/16" (11 mm) thick non-veneer or 1" (25 mm) thick nominal wood deck.

For UL fire rating, underlayment may be required. Apply flat and unwrinkled.

Standard or Steep Slopes: CertainTeed recommends DiamondDeck™ Synthetic Underlayment, Roofers' Select™ High-Performance Underlayment, or shingle underlayment meeting ASTM D226, D4869 or D6757. Always ensure sufficient deck ventilation, and take particular care when DiamondDeck or other synthetic underlayment is installed. Follow manufacturer's application instructions.

Low Slopes: One layer of CertainTeed's WinterGuard™ Waterproofing Shingle Underlayment (or equivalent, meeting ASTM D1970) or two layers of 36" (914 mm) wide felt shingle underlayment (Roofers' Select or underlayment product meeting ASTM D226, D4869 or D6757) lapped 19" (483 mm) must be applied over the entire roof; ensure sufficient deck ventilation. When DiamondDeck or other synthetic underlayment is installed, weather-lap at least 20" (500 mm) and ensure sufficient deck ventilation. Follow manufacturer's application instructions.

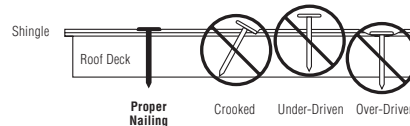
Cold Weather Climates (All Slopes): Application of WinterGuard or its equivalent is strongly recommended whenever there is a possibility of ice build-up. Follow manufacturer's application instructions.

Flashing: Corrosion-resistant flashing must be used to help prevent leaks where a roof meets a wall, another roof, a chimney or other objects that penetrate a roof.

Sealing: Shingle sealing may be delayed if shingles are applied in cool weather and may be further delayed by airborne dust accumulation. If any shingles have not sealed after a reasonable time period, hand sealing may be necessary.

Caution: To prevent cracking, shingles must be sufficiently warm to allow proper forming for hips, ridges and valleys.

Fastening — IMPORTANT

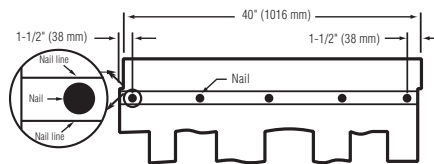


For Presidential Solaris shingles, **NAILS are strongly recommended.** Nails must be 11 or 12 gauge roofing nails, corrosion-resistant, with at least 3/8" (9.5 mm) heads, and at least 1" (25 mm) long.

IMPORTANT: Nails must never be exposed on finished roof. For decks 3/4" (19 mm) thick, or thicker, nails must go at least 3/4" (19 mm) into the deck. On thinner decks, nails must go at least 1/8" (3.2 mm) through the deck.

Low and Standard Slope:

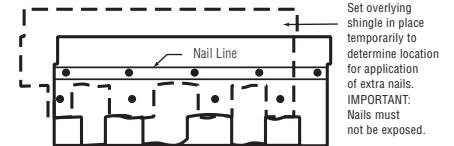
Use FIVE (5) nails for every full Presidential Solaris shingle. **IMPORTANT: NAILS MUST BE LOCATED WITHIN THE NAIL LINES, TARGETING LOCATIONS SHOWN BELOW.**



Steep Slope:

Use NINE (9) nails for every full Presidential Solaris shingle. First, apply five nails in the nail zone in standard fashion as shown.

Apply four nails 1" (25 mm) above horizontal line formed by dragon's tooth cutouts (approximately 4" down from nailing guide line) making sure certain tabs of overlying shingles will cover nails. Set overlying shingle in place temporarily to determine location of application of extra nails. These four additional nails must be at least 1-1/2" (38 mm) long, and must penetrate all laminate layers. See below.



Also, at slopes of 21/12 and greater apply a 1" (25 mm) dab of asphalt roofing cement centered beneath each tab and about 1" (25 mm) above its lower edge.

Applying the cement over the properly located four extra nails is acceptable. Gently press each tab into the roofing cement so as to not expose any cement. Asphalt roofing cement meeting ASTM D4586 Type II is suggested.

CAUTION: Excessive use of roofing cement can cause shingles to blister.

Re-roofing ("Tear-off or Roof-over")

"Tear-off"

It is important to determine that the roof deck is in satisfactory condition and the load-bearing capacity is adequate for application of these heavy-weight shingles.

If the old roof consists of two or more layers of standard weight shingles or consists of heavy-weight shingles, or if the roof consists of wood shingles (other than sawn square butt style), you are **required** to remove (tear-off) existing roofing and repair decking and/or install new decking. Then apply underlayment, eaves flashing and shingles according to procedure in "5" & 15" Offset, Four-Course Diagonal Method (New Roof)."

"Roof-over"

Make the surface as smooth as possible by replacing missing shingles and splitting and nailing flat all buckles, raised tabs, and curled shingles. Cut old shingles back flush to the rakes and eaves. Apply beveled wood strips to roofs of square butt sawn wood shingles to obtain an even base.

Apply corrosion-resistant drip edge along the rakes and eaves, if desired. Apply shingles according to "5" & 15" Offset, Four-Course Diagonal Method (New Roof)."

Nails must penetrate the wood deck at least 3/4" (19 mm) or just through the plywood.



5" & 15" Offset, Four-Course Diagonal Method (New Roof). This is the only approved method of application.

Underlayment: Apply as required, following manufacturer's instructions. Diagram "A" illustrates application of Roofers' Select and standard felt underlayment, for standard or steep-slopes only. Always ensure sufficient deck ventilation, and take particular care when DiamondDeck or other synthetic underlayment is installed. Follow manufacturer's application instructions.

Alignment: Snap horizontal and vertical chalklines to assure shingles will be correctly aligned. Expose all shingles 4" (100 mm). Use the shingle's "shiplap" feature to obtain correct exposure by aligning the shingle's 1/2" (13 mm) shiplap edge with the top edge of the shingle beneath.

Note: Diagrams illustrate standard slope application.

Starter Course (See A):

You must use TWO (2) OVERLAPPING LAYERS of CertainTeed's Presidential Starter shingles, applied in the following fashion, starting at left rake/eaves corner. The staggered top edge of the starter pieces will allow a smooth and uniform transition for applied shingles.

1) Bottom Starter Course Layer - Cut 20" (508 mm) off the first bottom piece (save the cut off piece for use on the other side of the roof). Fasten remaining 13-1/4" x 20" (336 mm x 508 mm) piece to the deck as shown, followed by full 13-1/4" x 40" (336 mm x 1016 mm) pieces along the eaves. DO NOT REMOVE THE PERFORATED TOP SECTION.

2) Top Starter Course Layer - Cut 2" (50 mm) off the left side of the first top piece. Bend the 2" (50 mm) top portion and break off that strip. Install the 11-1/4" x 38" (286 mm x 965 mm) piece over and flush to the **bottom starter course**. Continue with 11-1/4" x 40" (286 mm x 1016 mm) **top course** pieces over the rest of the bottom starter course along the eaves.

1st Course: (See B)

Apply a full Presidential Solaris shingle at the lower left corner of the roof, aligning left and bottom edges flush with the starter course.

2nd Course:

Line up the top right shiplap edge of the 2nd course shingle with the notch located 5-1/2" (140 mm) in from the top right edge of the 1st course shingle. Cut 5" (127 mm) from the left edge of the 2nd course shingle (flush with left edge of 1st course) and save for later use. Nail properly.

3rd Course:

Line up the right shiplap edge of the 3rd course shingle with the notch located 15-1/2" (394 mm) in from the top right edge of the 2nd course shingle. Cut 20" (508 mm) from the left edge of the 3rd course shingle (flush with left edge of 2nd course) and save for later use.

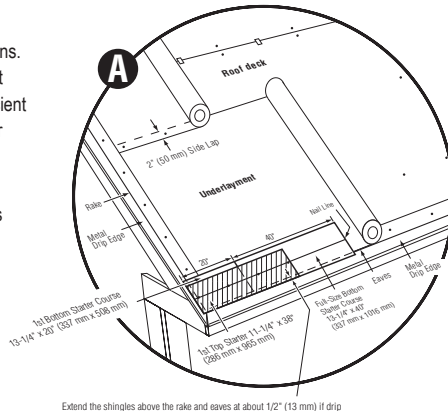
4th Course:

Line up the right shiplap edge of the 4th course shingle with the notch located 5-1/2" (140 mm) in from the top right edge of the 3rd course shingle. Cut 25" (635 mm) from the left edge of the 4th course shingle (flush with left edge of 3rd course) and save for later use. Nail properly.

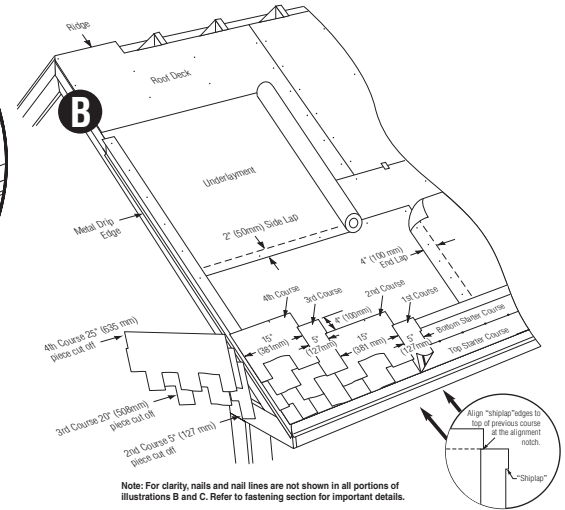
Apply a full shingle against the right edge of each shingle in courses 1 through 4, using the shiplap feature on the ends to butt the ends properly.

Succeeding Courses:

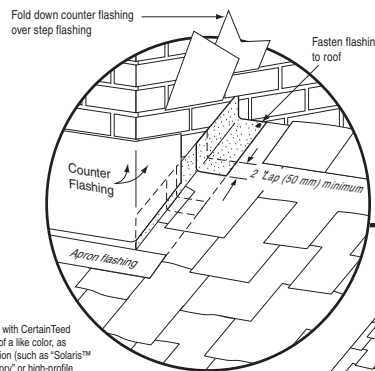
In the 5th course, apply a full shingle at the left rake and repeat the 4 course diagonal pattern up the left rake. (See C₁). Apply one full shingle against each shingle in courses 1 through 8 (right side of sections C₁ and C₂). Proceed up the rake in 4-course sections and fill in diagonally with full shingles, until the roof is covered. Diagonal application is important to assure proper finished appearance.



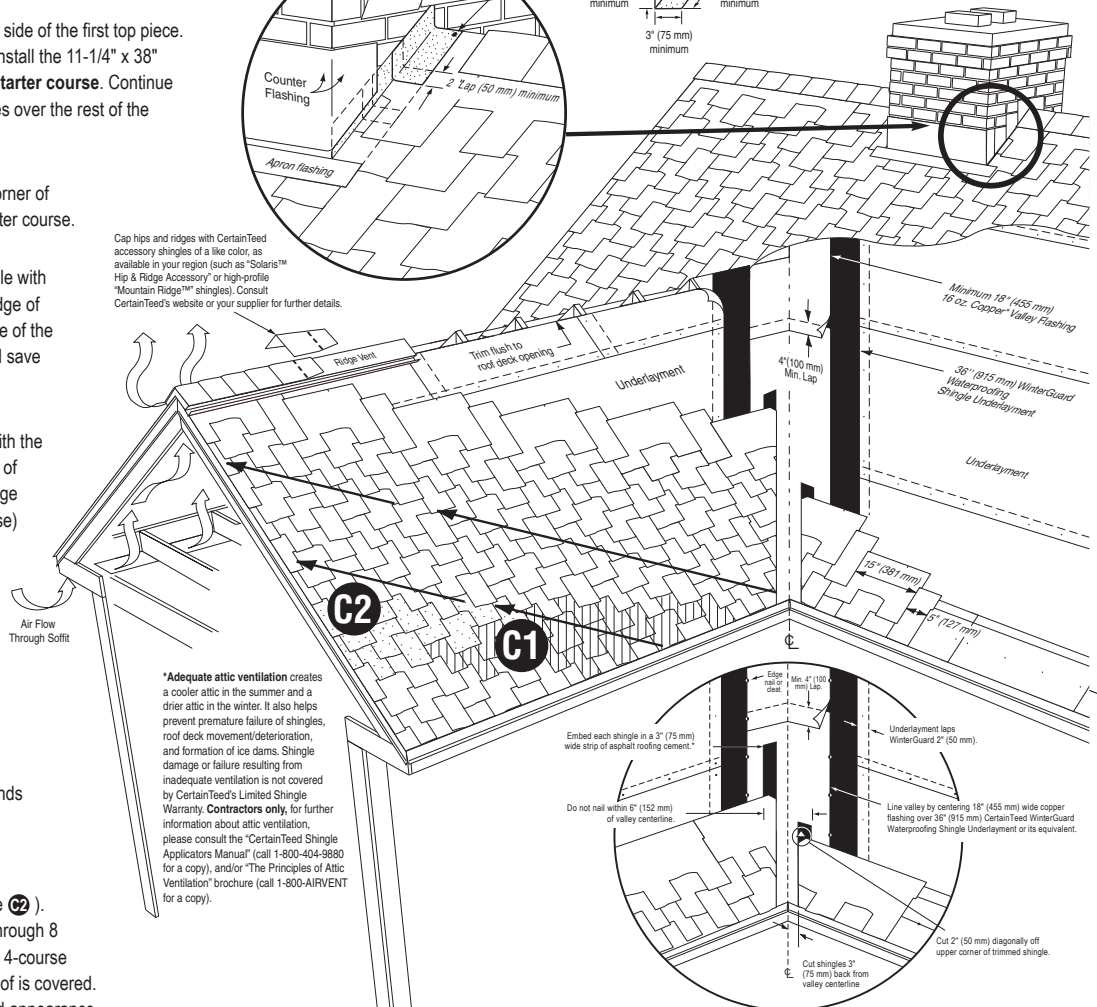
Extend the shingles above the rake and save at about 1/2" (13 mm) if drip edge is used or about 3/4" (19 mm) if no drip edge is used.



Note: For clarity, nails and nail lines are not shown in all portions of illustrations B and C. Refer to fastening section for important details.



Cap hips and ridges with CertainTeed accessory shingles of a like color, as available in your region (such as "Solaris™ Hip & Ridge Accessory" or high-profile "Mountain Ridge™" shingles). Consult CertainTeed's website or your supplier for further details.



*Adequate attic ventilation creates a cooler attic in the summer and a drier attic in the winter. It also helps prevent premature failure of shingles, roof deck movement/deterioration, and formation of ice dams. Shingle damage or failure resulting from inadequate ventilation is not covered by CertainTeed's Limited Shingle Warranty. Contractors only, for further information about attic ventilation, please consult the "CertainTeed Shingle Applicators Manual" (call 1-800-404-9880 for a copy), and/or "The Principles of Attic Ventilation" brochure (call 1-800-AIRVENT for a copy).

Closed cut valley application is an acceptable alternate. Refer to CertainTeed's Shingle Applicator Manual for more information.