

# CertainTeed

# *Symphony*<sup>™</sup>

## Installation Instructions

### Product Description

- CertainTeed's Symphony™ composite slate is an innovative roofing product that simulates the appearance, texture and contours of traditional natural slate. It is a carefully engineered polymer composite roofing product that is formulated for beauty, durability, and handling. Symphony is easy to install, with a contractor-friendly design but at a fraction of the weight and cost of slate.

### Product Data

- Shingle size: Symphony comes in nominal 6" wide x 18" tall, 9" wide x 18" tall, and 12" wide x 18" tall dimensions including side-to-side spacing nibs. The nominal width is measured from the vertical headlap side of the piece to the outer edge of the nib on the opposing vertical side.
- Variable exposure options at 6.0", 6.5", 7.0", 7.5" and 8.0".
- For the 12" width blends, there are 25 shingles per bundle. There are 36 shingles in mixed width blends.
- For the 12" width blends, there are 150 shingles per square at 8" exposure and 216 shingles per square in a mixed width blend at 8" exposure.
- There are 6 bundles per square at 8" exposure for both the 12" and mixed width blends.
- For the 12" width blends, there are 6 squares per pallet (36 bundles) at 8" exposure; 5 squares per pallet (30 bundles) at 8" exposure for mixed width blends.
- Typical pallet weight is 1350 lbs/pallet.

Exposure*	Shingles/Bundle	12" Width Blends				Lbs/Sq*	Sq/Pallet
		Lbs/Bundle*	Shingles/Sq	Bundles/Sq*			
8.0"	25	37.5	150	6.0	225	6.0	
7.5"	25	37.5	160	6.4	240	5.6	
7.0"	25	37.5	172	6.9	258	5.2	
6.5"	25	37.5	185	7.4	277	4.9	
6.0"	25	37.5	200	8.0	300	4.5	

Exposure*	Shingles/Bundle	Mixed Width Blends (6", 9" and 12")				Lbs/Sq*	Sq/Pallet
		Lbs/Bundle*	Shingles/Sq	Bundles/Sq*			
8.0"	36	37.5	216	6.0	225	5.0	
7.5"	36	37.5	230	6.4	240	4.7	
7.0"	36	37.5	248	6.9	258	4.3	
6.5"	36	37.5	266	7.4	277	4.1	
6.0"	36	37.5	288	8.0	300	3.8	

\*Typical values

### Color Blends

- Symphony's authentic earth palettes combine shades and textures to replicate the real thing. Consistency of colors from pallet to pallet allows aesthetic mixing on a roof. Symphony is available in the color blends Colonial Gray, Capital Blend, and Evergreen.

### Hip and Ridge

- Symphony is also available as a pre-formed hip and ridge product with a nominal 12" wide x 18" tall dimension and has exposure options of 6.0", 6.5", 7.0", 7.5" and 8.0". It is also available in two different pitch profiles; a shallow angled profile for hips and roof pitches less than 7:12, and a shaper angle for pitches 7:12 and higher.
- Symphony Hip and Ridge is packaged 15 pieces to a bundle, covering 10 linear feet at an 8.0" exposure. One bundle of Symphony Hip and Ridge weighs 18.75 lbs (typical value). Symphony Hip and Ridge is available in Colonial Gray, Capital Blend, and Evergreen.
- Contact CertainTeed Roofing Technical Services Department at (800) 345-1145 for additional information.

### Rake Accessory

- Symphony offers its 6" wide tiles in bundles of 15 to be used as a rake accessory. These tiles can be used as the first piece on alternating courses of 12 inch width blends, eliminating the need to cut a 12" wide tile in half. Colors available are Gray and Green.

### Safety

- All roofing and associated construction procedures should be performed with safety in mind. Good and proven safety practices should be followed.
- Fall protection equipment may be required.
- Roofing activity can be dangerous. All necessary precautions and safety guidelines should be observed in accordance with proper roofing trade practices and regulations, OSHA and local building codes.

### Code Compliance

- Fire Resistance\*\* – UL 790/ASTM E108, Class A.
- Wind Resistance – ASTM D3161, Class F at 6" through to 8" exposure.
- Impact Resistance – UL 2218, Class 4.
- Installation contractor is responsible for checking and following all local building codes and requirements.

\*\* UL Class A Fire Resistance is obtained using CertainTeed fiber glass All Weather/Empire™ Base Sheet or MetaLayment.

### No Special Tools Required

- Symphony can be fastened by hand nailing or by pneumatic nail gun. The nail pocket is designed to fit the contour/shape of most pneumatic nailer heads. In addition, Symphony may be fastened with screws.
- Symphony is best cut with a table saw, jigsaw, or small handheld portable circular saw. A fine toothed or carbide toothed blade will produce acceptable cuts. A utility knife will not cut the product easily.

### Special Handling

- It is not recommended to apply Symphony at temperatures below 15° Fahrenheit.

### Decking

- Symphony must be installed over a solid wood substrate. Plywood and oriented strand board (OSB) decking must comply with specifications outlined by the APA-Engineered Wood Association. Acceptable wood decking materials are 3/8" thick plywood, 7/16" OSB, 1" nominal tongue and groove wood planks, or 1" nominal thickness wood decking no wider than 6".

## Underlayment

- Use CertainTeed WinterGuard™ Waterproofing Underlayment or equivalent waterproof underlayment in the valleys, along rake and eave edges, under half-piece hip and ridge caps, around chimneys, skylights, and other roof penetrations as necessary.
- A minimum of #30 organic felt underlayment meeting ASTM D226 Type I or equivalent should be used to cover the roof deck areas that are not covered by WinterGuard or equivalent waterproof underlayment.

Note: For UL Class A Fire Resistance, use CertainTeed fiber glass All Weather/Empire Base Sheet or MetaLayment.

## Fasteners

- Recommended fasteners (nails or screws) must penetrate at least 3/4" into wood decking or at least 1/8" through plywood or OSB sheathing, but in no case shall the fastener be less than 1-1/2" in length.
- Fasteners must be corrosion resistant, and higher quality fasteners such as electro galvanic (for non-coastal areas), stainless steel, hot dipped galvanized, solid copper, brass or aluminum are recommended in order to comply with the full warranty duration for Symphony. Fasteners such as 11-gauge nails with 3/8" (10 mm) head, No. 8 or No. 9 brass flathead Phillips, square drive screws or similarly sized stainless steel screws are acceptable. Where additional holding power is desired, use screws or ring shank fasteners. Do not over- or under-drive fasteners.
- Symphony has a dimpled nail pocket location for correct positioning of fasteners and ease of hand-nailing. Two fasteners per shingle are required, one placed in each of the nail pockets or within 1" of a cut edge in a non-exposed location.
- A fastener length of 2" is recommended for application of preformed hip and ridge pieces.

## Chalk Lines

- Snap chalk lines to ensure that Symphony is applied uniformly on the roof. Each shingle has reference marks to ensure that the exposure dimension chosen is from 6" to 8" in half-inch increments. Align the chosen marks to the top edge of the piece below.
- Refer to the vertical alignment marks that are provided for both left-to-right and right-to-left application to apply the shingles at the half-piece offset.

## Starter Pieces

- For 6.0", 6.5", 7.0", 7.5" and 8.0" exposures, 12" wide x 10" tall starter pieces are to be cut from the headlap of individual Symphony shingles and placed with the top edge turned facing the lower edge of the eave. The remaining 12" x 8" shingle can be used for the uppermost roof course. As an alternative, you may install CertainTeed's high performance 10" asphalt starter as the starter course for Symphony. It is recommended that the side and lowest edges of Symphony extend 1" +/- 1/4" beyond the fascia trim at the rake and eaves.

## Valleys and Flashings

- CertainTeed WinterGuard or equivalent waterproofing underlayment product is required as an underlayment beneath the metal valley.
- Open or closed valley systems may be used. Whether installing an open or closed valley, valley metal is required and must be no less than 24" wide. Valley and flashing metal must be a minimum of 16-oz copper or 26-gauge corrosion resistant metal such as stainless steel, painted galvanized steel, color clad steel or color clad aluminum. Use same metal type cleats or fasteners as valley metal.
- For open metal valleys, either a "W" valley or a double "W" valley with hemmed outside slater's edge is acceptable. Apply Symphony 2" or more from the valley centerline. Cut 2" off the top valley side corner of a Symphony shingle at a 45-degree angle to help divert water back into the valley. A double "W" valley has metal bent in the centerline direction to look like a "V" with a "W" diverter on either side, 2" from the centerline. Cut pieces should be laid against the "W" diverters on either roof side edge.
- For closed metal valleys, use a "W" valley, a standing seam center crimp design, or a classic "V" bend metal valley design. Apply cut Symphony to within 1/4" of the center diverters or the centerline.
- Always fasten Symphony 6" or more from the valley centerline. Always overlap valley metal at joints by at least 4".
- Metal step-flashing size minimums are 4" up a side wall, 4" across the headlap portion of an applied shingle course and 10" up on the roof slope (4" x 4" x 10").

## General Application

- The applicator-friendly design of Symphony includes spacer tabs, exposure marks, alignment marks (for left- and right-hand applications) and nail pockets.
- Symphony can be applied like traditional quarried slates with a straight or staggered bottom edge application, and with a half-piece offset (6"), or 5" or 4" offset with textured headlap show-through. It is recommended that side-edge to side-edge offset, regardless of shingle width, should not be less than 3".
- Tear off of the existing roofing material is required prior to application; apply Symphony to a clean, dry deck following installation of the appropriate underlayment (i.e., roof-overs are not permitted).
- If desired, apply standard drip edge or flared gable metal to eaves and rakes.
- Do not apply Symphony to roof slopes below 3:12 (a 3" rise for every horizontal run of 12").
- For roof slopes from 3:12 through 5:12 the following conditions must be met:
  - Apply Symphony at a 6" exposure.
  - CertainTeed WinterGuard or equivalent waterproofing underlayment product must be installed over the entire roof deck.(Note: When the entire roof deck is covered with a waterproof underlayment, be sure to provide adequate ventilation.)
- On slopes over 5:12, Symphony can be applied with a greater exposure, but not in excess of 8".
- WinterGuard HT or an equivalent waterproof underlayment product may be used in place of traditional hidden hip and ridge metal flashing. It can be applied either as a continuous length, centered 8"-10" wide strip on the hip or ridge line and under the hip and ridge pieces or in place of individual flashing pieces. Overlap WinterGuard joints 4"-6" along the ridge line.

## Hip and Ridge Application

- Symphony can be complemented with an available pre-formed full piece 12" x 18" hip and ridge product, available in 2 different pitch profiles; a shallow angled profile for hips and roof pitches less than 7:12 and a shaper angle for pitches 7:12 and higher.
- Hip and ridge can also be applied using one of the traditional half-piece application techniques that are typical for real slate applications, such as the saddle, comb, or mitered, with flashing covering the unexposed portion. Symphony 6" x 18" rake accessory shingles are ideal for this application. These pieces can be used as right-handed and left-handed sides, applied on either side of the hip or ridge line. Minimum two fasteners per piece.
- Alternative hip and ridge applications – including a minimum 16-oz. copper or metal lineals of 26-gauge corrosion resistant metal such as stainless steel, color clad steel, color clad aluminum, or metal ridge vent in a complementary color – are also acceptable for hips and ridges. Metal joint overlap should not be less than 4".

## Ventilation

- Ventilation should meet or exceed current HUD standards. Suggestions for ridge vents include continuous metal ridge vents or products such as Shingle Vent II (9" or 12" widths).

## Snow Guards

- The use of snow guards is highly recommended with Symphony. Note: Symphony may allow snow to slide off a roof easily, and therefore the use of snow guards is recommended in all applications. The risk of snow sliding off a roof increases in areas with above-average snowfall, and the use of snow guards is particularly important in such areas. The installation contractor should refer to local building codes and requirements for the use of snow guards and should follow the snow guard manufacturer's installation instructions for correct spacing and application.

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