

Technical Data Sheet

Symphony™ Slate



PRODUCT INFORMATION

CertainTeed's Symphony synthetic slate is an innovative roofing product simulating the appearance, texture and contours of traditional natural slate. It is a carefully engineered polymer composite roofing product designed for beauty, durability, and easy-handling. Symphony is contractor friendly – simple to install and at a fraction of the weight and cost of slate.

Colors: Symphony is available in three widths – 6", 9" & 12", and in six colors – light, medium & dark gray, light & dark green and plum. Symphony is also available in pre-blended color blends in 12" width: Colonial Gray, Capital Blend, and Evergreen.

Limitations:

- Existing roofing material must be torn off prior to application; apply Symphony to a clean dry deck. Roof-overs are not permitted.
- Do not apply Symphony to roof slopes below 3:12.
- Low slope roofs from 3:12 through 5:12 the following conditions must be met:
 - Install CertainTeed WinterGuard™ Waterproofing Underlayment or equivalent waterproofing underlayment product over the entire roof deck. (Note: Ensure that adequate ventilation meeting or exceeding local code requirements is installed.)
 - Apply Symphony at a 6" exposure.
- At slopes greater than 5:12, Symphony can be applied at consistent exposures of 6" to 8" (maximum), in ½" increments.
- It is not recommended to apply Symphony at temperatures below 15° Fahrenheit.
- IMPORTANT:** Installation contractor is responsible for checking and following all local building codes and requirements.

Product Composition: Symphony consists of an innovative durable composite polymer material.

Applicable Standards: For all approved exposures of 6" – 8", unless otherwise noted.

ASTM E108, Class A Fire Resistance** –. (Note: Class A Fire Resistance requires use of CertainTeed fiber glass All Weather/Empire™ Base Sheet or an equivalent product meeting ASTM D4601 Type II or WinterGuard HT or MetaLayment).

ASTM D3161, Class F Wind Resistance
 UL 1897 Wind Uplift Resistance, -82.5 PSF
 UL 2218 Class 4 Impact Resistance
 ICC-ES Evaluation Report ESR-3000
 Energy Star Rated
 CA Title 24, Part 6: Meets prescriptive SR requirement (aged SR > 0.20)
 USGBC LEED®-NC

Canadian CCMC Approval 13448-R
 TDI Roofing Evaluation RC-232
 Miami-Dade Product Control Approved
 Florida Product Approval # FL12924

Symphony Color Blend Name	CRRC Rated Initial SR	CRRC Rated Initial TE	CRRC Product ID No.	ASTM E408 Initial TE	Initial Solar Reflective Index (SRI)*	Energy-Star Rated
Capital Blend	0.26	0.90	0668-0065	0.94	29	YES
Colonial Gray	0.26	0.90	0668-0066	0.94	29	YES
Evergreen	0.31	0.90	0668-0067	0.94	35	YES

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

Technical Data: (Typical values)

- Shingle size: The typical shingle is nominal 12" wide x 18" tall dimension including the side-to-side spacing nibs. Shingles are also available in 9" and 6" widths.
- Shingle exposure options of 6.0", 6.5", 7.0", 7.5" and 8.0".
- 25 shingles per bundle for the 12 inch width blends.
- 150 shingles per square at 8" exposure.
- 6 bundles per square at 8" exposure.

Technical Data Continued: (Typical values)

- 6 squares per pallet (36 bundles) at 8" exposure for the 12 inch width blends.
- Typical pallet weight is 1350 lb/pallet. Each pallet holds 36 bundles of roofing shingles for the 12 inch width blends.
- 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". Symphony Hip and Ridge is packaged 15 pieces to a bundle, giving 10 linear feet of coverage with an 8.0" exposure. One bundle of Symphony Hip and Ridge weighs 18.75 lb.
- Contact CertainTeed's Technical Services Department at (800) 345-1145 for additional information.

INSTALLATION

Roof Deck Requirements:

- 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 minimum 3/8" thick plywood, minimum 7/16" OSB, and nominal 1" thick tongue and groove wood planks, or nominal 1" thick wood decking no wider than 6".

Ventilation:

- Ventilation should meet or exceed current local building code requirements.

Valleys and Flashing:

- 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 14" up on the roof slope (4" x 4" x 14").

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.

Fastening:

- 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.

- Staples are not allowed.
- 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.

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 waterproofing 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".

MAINTENANCE

Symphony slates 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

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 Corporation
 Roofing Products Group
 P.O. Box 860
 Valley Forge, PA 19482

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