

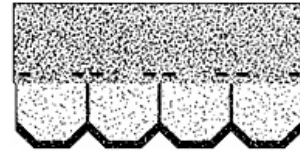
Technical Data Sheet

Carriage House Shingles



PRODUCT INFORMATION

Carriage House is built on CertainTeed's patented design using two full-size base shingles, resulting in four full layers of shingle protection when applied. Moreover, this one-piece construction offers the applicator greater ease of installation. Most importantly, its tough fiber glass composition makes Carriage House a durable, long-lasting shingle. It is designed to resist blow off in high wind conditions up to 110-mph.



Deep 8" tabs, distinctive shadow lines, and chamfered corners give Carriage House the appearance of a scallop-edged finish, creating a look reminiscent of the handcrafted slate roofs of yesteryear. These shingles are most aesthetically appealing when used on slopes of 9"per foot or greater.

Carriage House Shingle shingles are algae (commonly called fungus) resistant and thus protect against staining or discoloration caused by algae.

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

Limitations: Use on roofs with slopes greater than 2" per foot. However, slopes greater than 9" per foot best show the product design. Low slope applications (2" to 4" per foot) require additional underlayment. In areas where icing along the 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, apply four 1" diameter spots of asphalt roofing cement (ASTM D 4586) under the shingle, according to application instructions provided with the product and on the shingle package.

Product Composition: Carriage House shingles are composed of a fiber glass mat base. Ceramic-coated mineral granules are tightly embedded in carefully refined, water-resistant asphalt. The laminated tabs are firmly adhered in a special tough asphaltic cement. These fiber glass based shingles have self-sealing adhesive.

Applicable Standards:

ASTM D 3018, Type 1	UL 790 Class A Fire Resistance
ASTM D 3462	UL 997 Wind Resistance
ASTM E 108 Class A Fire Resistance	NYC-MEA-120-79-M
ASTM D 3161-08b, Class "F" Wind Resistance (110-mph)	ICC-ES Evaluation Report ESR-1389
ASTM D 3161-03b, Class "F" Wind Resistance (110-mph)	CSA Standard A123.5-98 (& -05)
ASTM D 3161-99a, 110-mph Wind Resistance	Ontario BMEC Auth. 97-10-219
ASTM D 7158 Class "H" Wind Resistance	Miami-Dade Product Control Approved
UL 2390/ASTM D6381 Class "H" Wind Resistance	Florida Product Approvals # FL5444
	UL 2218 Class 1 Impact Resistance

TECHNICAL DATA

Weight/Square (approx.):	355 lb.
Dimensions (overall):	18" x 36" (English)
Shingles/Square:	50
Weather Exposure:	8"

INSTALLATION

Detailed installation instructions including diagrams are supplied on each bundle of Carriage House shingles, or separate application sheets may be obtained from CertainTeed. The following is a general summary of the installation methods. NOTE - Refer to application instructions supplied with the shingles for further information and application procedure.

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 best insure adequate ventilation, use a combination of continuous ridge ventilation (using Ridge FilterVent or Ridge Filter ShingleVent II, manufactured by Air Vent Inc, or a comparable product with an external baffle) combined with balanced soffit venting.

Valleys: Open valley is required. 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. Refer to the application instructions on our packaging for further information.

Underlayment: At standard slopes (4" per foot or greater) a single layer of Roofers' Select™ High-Performance shingle underlayment (or product meeting ASTM D 4869 or ASTM D 6757) is recommended. 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.

On low slopes (2" to 4" per foot), apply CertainTeed WinterGuard Waterproofing Shingle Underlayment or its equivalent, or two layers of 36" wide felt shingle underlayment (Roofers' Select High-Performance Underlayment or product meeting ASTM D 4869 or ASTM D 6757) lapped 19", over entire deck according to the application instructions provided with the product. 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.

Fastening: Five nails are required per shingle. They are to be located 5/8" above the cutouts (8-5/8" above the bottom edge of the shingle) and 1" in from each side of the shingle. Nails must be of sufficient length to penetrate into the deck 3/4" or through the thickness of the decking, whichever is less. For new construction, nails must never be less than 1-1/4" long, for reroofing never less than 1-1/2" long, and for caps a minimum of 1-3/4" long. Nails are to be 11- or 12-gauge, corrosion-resistant roofing nails with 3/8" heads. For fastening of copper valley, use copper cleats or large head copper nails.

Application: The recommended application method is the 4-1/2" Stepped-Off, Single Column Vertical-Racking 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 is in satisfactory condition 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. The weather exposure of these shingles is 8". An alternate application method is the 'Six-Course, 4 1/2" Stepped-Off, Diagonal Method'. Contact CertainTeed for a copy of this application method.

Special Application: Carriage House Shingle shingles can be blended into a CertainTeed Grand Manor Shingle roof to achieve a unique and distinctive appearance. A common application method uses several courses of Carriage House Shingle in the middle of a Grand Manor roof. Other aesthetically appealing applications are possible using Grand Manor and Carriage House Shingle shingles. Contact us for more information.

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

Hips and Ridges: Use only Shingle Ridge Accessory shingles of the matching color for capping the hips and ridges.

MAINTENANCE

Carriage House 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

Carriage House Shingle carries a lifetime limited transferable warranty against manufacturing defects for the original homeowner. In addition, Carriage House also carries 10-year SureStart Protection. 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

See us in Sweets and ARCAT printed and electronic publications

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