

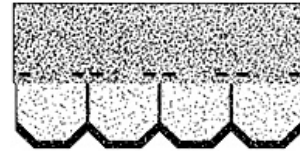
# Technical Data Sheet

## 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 with normal installation and up to 130-mph with special installation.



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 shingles are algae resistant and help 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 spots of roofing cement under the shingle, according to application instructions provided 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 D3018, Type I  
ASTM D3462  
ASTM E108 Class A Fire Resistance  
ASTM D3161 Class F Wind Resistance  
ASTM D7158 Class H Wind Resistance  
UL 2390/ASTM D6381 Class H Wind Resistance  
UL 2218 Class 1 Impact Resistance

UL 790 Class A Fire Resistance  
UL 997 Wind Resistance  
NYC-MEA-120-79-M  
ICC-ES Evaluation Report ESR-1389  
CSA Standard A123.5-98 (& -05)  
Ontario BMEC Auth. 97-10-219  
Miami-Dade Product Control Approved  
Florida Product Approval # FL5444

### TECHNICAL DATA

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

### INSTALLATION

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

**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:**

On slopes 4" per foot or greater, CertainTeed recommends one layer of DiamondDeck™ Synthetic Underlayment, or 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" up to 4" per foot), one layer of CertainTeed's WinterGuard Waterproofing Shingle Underlayment (or equivalent meeting ASTM D1970) or two layers of 36" wide felt shingle underlayment (Roofers' Select High-Performance Underlayment or product meeting ASTM D226, D4869 or ASTM D6757) lapped 19" must be applied over the entire roof, ensure sufficient deck ventilation. When DiamondDeck or other synthetic underlayment is installed, weather-lap at least 20" and ensure sufficient deck ventilation. 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. Follow manufacturer's application instructions.

**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. If Miami-Dade acceptance is desired, six nails must be used, located as shown on shingle wrap. Staples are not allowed.

On steep slopes greater than 21" per foot, use five nails and apply four spots of roofing cement according to application instructions provided on the shingle package.

**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™ shingles can be blended into a CertainTeed Grand Manor roof to achieve a unique and distinctive appearance. A common application method uses several courses of Carriage House in the middle of a Grand Manor roof. Other aesthetically appealing applications are possible using Grand Manor and Carriage House 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 Shangle 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 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](http://www.certainteed.com) ).

#### **FOR MORE INFORMATION**

Sales Support Group: 800-233-8990

Web site: [www.certainteed.com](http://www.certainteed.com)

See us at our on-line specification writing tool, CertaSpec, at [www.certainteed.com/certaspec](http://www.certainteed.com/certaspec).

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