

CT20 Shingles

Technical Information

CertainTeed offers a variety of three-tab shingle products that combine exceptional durability with flexibility for better resistance to blow-off. In addition to their suitability for residential applications, these products are ideal for commercial applications. Available in dimensions 300mm x 900mm & 300mm x 1000mm.

Some of these shingles have the additional attribute of resisting the growth of algae (commonly called fungus) especially in damp regions.

Limitations:

Use on roofs with slopes greater than 10°. Low-slope applications (10 – 18°) require additional underlayment. In areas where icing along eaves can cause a back-up of water, apply Skellerup Peel & Stick Waterproofing Underlayment according to application instructions provided with the product and on the shingle package.

On slopes greater than 60°, apply a 25mm diameter spot of Skellerup roofing cement under the shingle tab corner, according to application instructions provided on the shingle package.

Product Composition:

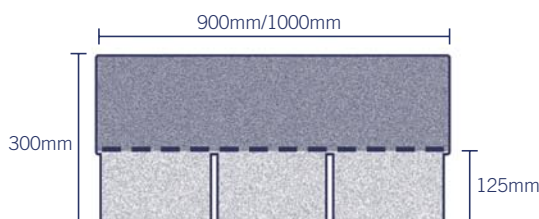
These shingles are composed of fibreglass mat base. Ceramic-coated mineral granules are tightly embedded in carefully refined, water resistant asphalt.

Applicable Standards

ASTM D 3018 Type 1
 ASTM D 3462
 ASTM E 108 Fire Resistance: Class A
 ASTM D 3161 Class F Wind Resistance (110mph)
 UL 790 Fire Resistance: Class A
 UL 997 Wind Resistance
 NTC-MEA-120-79-M
 BOCA & SBCCI Building Code
 ICC/ICBO Evaluation Report ER-5429 Pending
 CSA Standard A123.5-98
 Ontario BMEC Auth. 97-10-219
 BRANZ Appraisal Certificate #276

Technical Data

	CT20 Imperial	CT20 Metric
Weight/Square (approx)	9.5kg/m ²	9.5kg/m ²
Dimensions (overall)	300mm x 900mm	300mm x 1000mm
Weather Exposure	125mm	125mm



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Installation

Installation instructions including diagrams, are supplied on each bundle of Hatteras series shingles, or separate application sheets located in the installation section. Following is a general summary of the installation methods. NOTE – Refer to application instructions supplied with the shingles for further information and procedures.

Roof Deck Requirements:

Apply shingles to minimum 15mm thick plywood, or minimum 25mm thick (nominal) wood decks.

Ventilation:

Provisions for ventilation should meet or exceed current HUD Standards. To best ensure 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) and balanced soffit venting.

Valleys:

Valley liner must be applied before shingles. The Closed-Cut valley application method is recommended using Skellerup Peel & Stick Waterproofing underlayment or two to three layers of Underlayment to line the valley prior to being fully covered by the shingles.

Underlayment:

At standard slopes (18° or greater) a single layer of 15w High-Performance shingle underlayment (or product meeting ASTM D 4869 or ASTM D 6757) is recommended. 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 (10-18°) apply Skellerup Peel & Stick Waterproofing Shingle Underlayment or its equivalent, or two layers of 900mm wide felt shingle underlayment lapped 450mm, over entire deck according to the application instructions provided with the product. When Peel & Stick is applied to the rake area, the drip edge may be installed under or over Skellerup Peel & Stick. At the eave, when Peel & Stick does not overlap the gutter or fascia, the drip edge must be installed under membrane. When Peel & Stick overlaps the fascia or gutter, the drip edge or other metal must be installed over it.

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Fastening:

Four nails are required per shingle. Nails must be of sufficient length to penetrate into the deck 20mm or through the thickness of the decking, whichever is less. Nails are to be 11 or 12 gauge, corrosion-resistant roofing nails with 9mm heads. For high corrosion zones eg. coastal we recommend stainless steel nails to be used.

On steep slopes greater than 60° apply a 25mm diameter spot of Skellerup roofing cement (ASTM D 4586, Type II) under each shingle tab according to application instructions provided on the shingle package.

Application (Metric-Sized Shingles):

The recommended application method is the Seven Course, 140mm Stepped-Off Diagonal Method (Metric) found on each bundle of shingles. These shingles may also be applied using the Eight Course, 125mm Stepped-Off Diagonal Method (Metric), instructions for which may be obtained from Skellerup. These shingles may be used for new construction or for overlaying old shingles.

Flashing:

Use corrosion-resistant metal flashing.

Hips and Ridges:

Use CT20 shingle cut to shape for hip ridge caps.

Maintenance

These shingles do not require 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.