

Three-tab Shingles

Application Instructions

CT20

Metric Dimensions

All of these shingles are “good” or “better” quality roofing products. This means that when offering a choice of “good,” “better” and “best” products, these shingles would fall in the “good” or “better” categories. Many homeowners know from experience that a CertainTeed three-tab strip-shingle roof will give them many years of excellent, trouble-free service (if it is installed properly). The fiber glass reinforced products are UL Class A fire resistance rated. CertainTeed three-tab shingles are made to have a dimensional tolerance size of $\pm 1.5\text{mm}$. All have a 100kph wind blow-off resistance rating and a very high quality sun-activated tab sealant. All of these products have tear resistance ratings that exceed ASTM D3462 requirements.

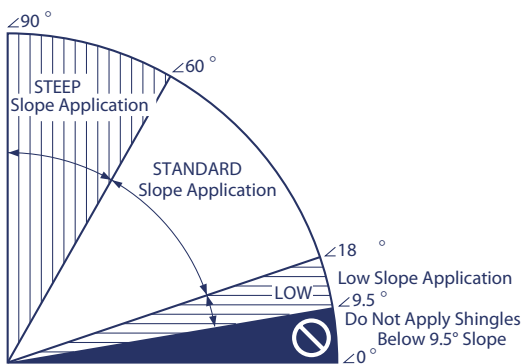


Figure 12-1: Slope definitions

STANDARD OR STEEP SLOPE UNDERLAYMENT:

Skellerup 15W underlay is required.

LOW SLOPE UNDERLAYMENT:

One layer of Skellerup Peel & Stick Waterproofing Shingle Underlayment or its equivalent*, or two layers of 915mm wide felt shingle underlayment lapped 485mm (double lapped) must be applied over the entire roof.

THE ROOF DECK MUST BE AT LEAST:

15 mm thick plywood

COLD WEATHER CLIMATES (ALL SLOPES):

Applying Skellerup Peel & Stick is strongly recommended wherever there is a possibility of ice build-up.

FLASHING:

Corrosion-resistant flashing must be used to help prevent leaks where a roof meets a wall, another roof, a chimney or other objects that penetrate a roof.

SEALING:

Shingle sealing may be delayed if shingles are applied in cool weather and may be further delayed by airborne dust accumulation. If any shingles have not sealed after a reasonable time period, hand sealing may be necessary.

CAUTION:

To prevent cracking, shingles must be sufficiently warm to allow proper forming for hips, ridges and valleys.

WARRANTY:

These shingles are warranted against manufacturing defects. See the warranty itself for specific details and limitations.

NOTE:

Some roofers choose to apply shingles at 100mm exposure (vs. standard 125mm) at slopes less than 19° in order to increase the wind-driven rain resistance. In some cases, this can be an acceptable practice, but there are risks for which CertainTeed will not take responsibility. A shortened exposure can harm the appearance of the applied roofing, especially those with shadow lines, and it can reduce shingle ability to resist wind blow-offs by shifting the adhesive seal line away from the bottom edge of the shingles.

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Fastening

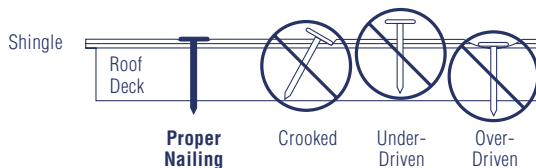


Figure 12-2: Proper and improper nailing

IMPORTANT:

For decks 19mm thick or thicker, nails must go at least 19mm into the deck. On thinner decks, nails must go at least 3.2mm through the deck. Nails must be 11- or 12-gauge roofing nails, corrosion-resistant, with at least 9.5mm heads, and at least 25mm long.

LOW AND STANDARD SLOPE

METRIC

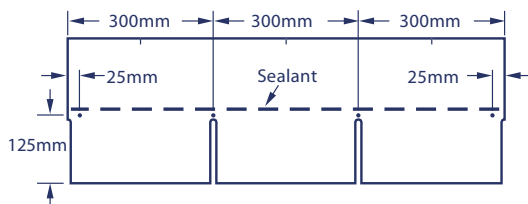


Figure 12-3: Use four nails for every full shingle

STEEP SLOPE

Use four nails and six spots of Skellerup roofing cement* for every full shingle.

*CAUTION:

Excessive use of roofing cement can cause shingles to blister.

Three Clean-deck application methods for metric shingles

Install on new roofs and tear-offs using the following methods:

- The Seven-Course, 457mm (50%) Stepped-Off Diagonal Method
- The alternate “Eight-Course, 125mm, Stepped-Off Diagonal Method”; or
- The alternate “Half-Tab Method.”

Seven course, 141mm stepped-off diagonal method

PREPARING THE DECK:

- Apply underlayment as required. CertainTeed suggests that a layer of 15W shingle underlayment be applied. Apply flat and unwrinkled.
- Expose all shingles 141mm.



Figure 12-12: Make starter shingles by removing the lower tabs

STARTER COURSE:

1. Use CertainTeed Starter™ 250 x 915 (Figure 12-12). Remember, the sealant on starter courses should lay as close as possible to the eaves edge of the roof.
2. Next, cut half of a tab off the length of the first starter-course shingle. Install this shingle on the lower left corner of the roof. Make sure there is 13mm left overhanging both rakes and eaves.
3. Continue with full-length starter-course shingles along the eaves. (Figure 12-13).

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1ST COURSE:

Apply a full shingle at the lower left corner of the roof. Make tabs lie flush with the edges of the starter course. In this way, sealant on the starter strip will adhere to the first-course tabs and help keep them from lifting in high winds (Figure 12-13).

2ND THROUGH 7TH COURSES:

1. Cut 141mm off the left side of a shingle and install this 844mm piece over and above the first-course shingle, in line with the left edge of the starter course (Figure 12-13).
2. Cut 281mm off the first shingle of the third course, 422mm off the first shingle of the fourth course, 221mm off the first shingle on the fifth course, 281mm off the first shingle of the sixth course, and 333mm off the first shingle of the seventh course. Apply each with its left edge in line with the previous course (Figure 12-13).
3. Install full shingles flush against the seven applied courses.

SUCCEEDING COURSES:

As you go up the rake, repeat the same pattern used to start the first seven courses. Finish the courses with full shingles, working from the eaves up the roof.

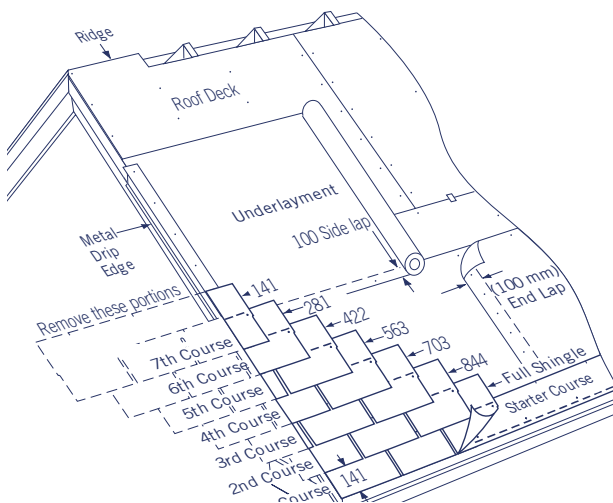


Figure 12-13: Applying the first 7 courses on a standard slope

IMPORTANT:

Do not align end joints of a given course closer than 457mm from one another, and they must be at least 75mm from the nails on the underlaying course. Figure 12-13: Applying the first 7 courses on a standard slope.

Eight-course, 125mm, stepped-off diagonal method

STARTER COURSE:

1. Use CertainTeed Starter™ (Figure 12-12). Remember, the sealant on starter courses should lay as close as possible to the eaves edge of the roof.
2. Cut 75mm off the length of the first starter strip and apply at the lower left corner of the roof. This starter strip should overhang the rakes and eaves 15mm.
3. Continue with full-length starter-course shingles along the eaves (Figure 12-14).

1ST COURSE:

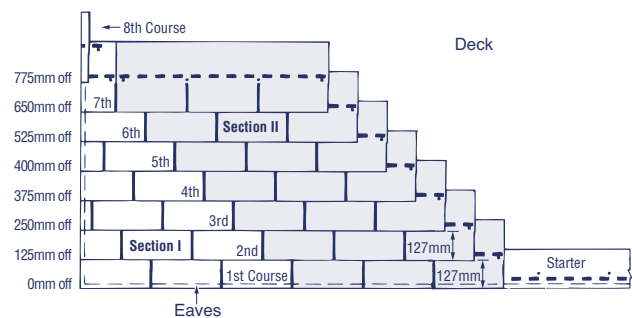


Figure 12-14: Eight-course, 125mm, Stepped-off diagonal method

Begin "Section I" by applying a full shingle at the lower left corner of the roof, tabs flush with the starter course.

2ND TO 8TH COURSE:

1. Begin the second course by cutting 125mm off the left end of a shingle and applying the 790mm piece over the first-course shingle, flush with the left edge of the first-course shingle, and exposing the first course 457mm (Figure 12-14).

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- Each succeeding course, up to and including the eighth course, should start with a shingle 125mm shorter (off the left end) than the previous course. Expose each course 141mm. This completes "Section I".
- Install "Section II" as shown in Figure 12-14 using full shingles against the eighth courses in "Section I." This must be done before continuing with course nine. These "Section II" shingles are to be butted-up against the "Section I" shingles.

SUCCEEDING COURSES:

- Repeat the above two-part procedure up the roof.
- Complete courses across the roof using full shingles.

Half-tab method

STARTER COURSE:

- Use CertainTeed starter course consisting of the shingles from which the lower tabs have been removed (Figure 12-12). Remember, the sealant on starter courses should lay as close as possible to the eaves edge of the roof.
- Cut half a tab off the length of the first starter strip and apply at the lower left corner of the roof.
- Continue with full-length starter-strip shingles along the eaves. (Figure 12-15).

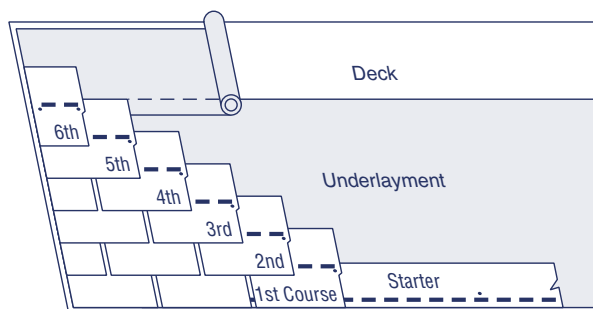


Figure 12-15: Half-tab method

1ST COURSE:

Apply a full shingle at the lower left corner of the roof, tabs flush with the starter course (Figure 12-15).

2ND COURSE:

Cut 147mm (half of a tab) off the left end of a shingle and apply the remaining piece over the first-course shingle, flush with the left edge and exposing the first course 141mm (Figure 12-15).

3RD THROUGH 6TH COURSES:

Each succeeding course, up to and including the sixth course, should start with a shingle one-half of a tab 147mm shorter (cut-off from the left end) than the previous course (Figure 12-16). Expose each course 141mm.

NOTE:

Most CertainTeed 3-tab shingles have 3 aligning notches cut into headlap which can be used as a guide to line-up the cut-outs.

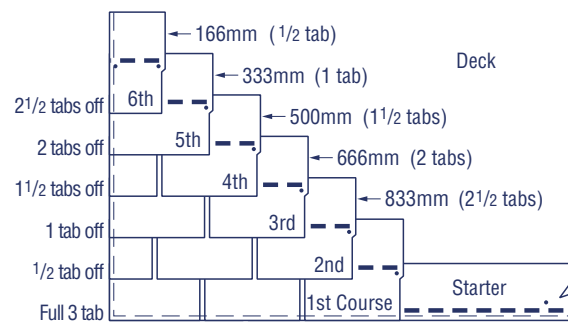


Figure 12-16: Half-tab method