YOUR OBJECTIVE:  
To learn the correct procedure for installing Laminated shingles.

LANDMARK™ SERIES AND LANDMARK™ TL

Landmark shingles have the installer-friendly WideTrack QB™ feature, which provides 1 1/2" wide nailing area and specially formulated Quadra-Bond laminating adhesive (See Figure 12-3).

Landmark Special is impact resistant and is specially manufactured with a reinforced fiberglass scrim to meet UL 2218 Class 4 impact resistance rating.

NOTE: Landmark Special must be installed over a clean deck (no roof-overs) to obtain the UL 2218 rating. It is strongly recommended that impact resistant cap shingles made from XT 30 IR shingles be installed on all hips and ridges. Some insurance carriers may not consider the roof system as compliant to UL 2218 Class 4 without impact resistant cap shingles.

Landmark TL is unique because its patented Tri-Laminate™ design combines three layers of material to provide a dramatically thick shingle with a wood shake style.

With the exception of Landmark TL, closed-cut valleys are preferred by CertainTeed when applying these shingles. Open valleys are recommended when applying Landmark TL; however closed-cut valleys are also acceptable. Woven valleys are not recommended for Landmark TL because the tri-laminated shingle can buckle and become damaged when shaped into the valley. Nails are required as fasteners for Landmark TL, staples are not allowed.

STANDARD OR STEEP SLOPE UNDERLayment: Shingle underlayment® meeting ASTM D 4869 Type I standards is suggested. CertainTeed’s Roofers’ Select™, ShingleFelt™, or RoofWrap™ is preferred.

LOW SLOPE UNDERLayment: One layer of WinterGuard™ or its equivalent®, or two layers of 36” (915 mm) wide felt shingle underlayment lapped 19” (485 mm) must be applied over the entire roof.

IMPORTANT: When installing LandMark TL on low slopes, one layer of WinterGuard or an equivalent waterproofing shingle underlayment must be applied over the entire roof. Applying two layers of felt shingle underlayment is not an acceptable alternative to WinterGuard. One layer of shingle underlayment meeting ASTM D4869 applied over the required WinterGuard is also recommended.

THE ROOF DECK* MUST BE AT LEAST: 3/8” (9.5 mm) thick plywood, or 7/16” (11 mm) thick non-veneer, or nominal 1” (25 mm) thick wood deck.

COLD WEATHER CLIMATES (ALL SLOPES): Applying WinterGuard or its equivalent® 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 and are covered by SureStart™ protection. See the warranty itself for specific details and limitations.

For technical questions, information on acceptable alternative application methods and materials, or a copy of the product warranty, contact the sources listed below:

<table>
<thead>
<tr>
<th>Source</th>
<th>Phone Number</th>
<th>Warranty</th>
<th>Alternate Instructions</th>
<th>Technical Questions</th>
</tr>
</thead>
<tbody>
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<td>Your supplier or roofing applicator</td>
<td></td>
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<tr>
<td>CertainTeed Home Institute</td>
<td>800-782-8777</td>
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<tr>
<td>CertainTeed-RPG Technical Services</td>
<td>800-345-1145</td>
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</table>
**FASTENING**

**Figure 12-2:** Proper and improper nailing.

**IMPORTANT:** For decks $\frac{3}{4}$" (19 mm) thick or thicker, nails must go at least $\frac{3}{4}$" (19 mm) into the deck. On thinner decks, nails must go at least $\frac{1}{8}$" (3.2 mm) through the deck.

Nails must be 11- or 12-gauge roofing nails, corrosion-resistant, with at least $\frac{3}{8}$" (9.5 mm) heads, and at least 1" (25 mm) long. **LandMark TL** requires nails at least $1\frac{1}{4}$" long.

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**LOW AND STANDARD SLOPE**

**WIDETRACK QB METRIC DIMENSIONS**

**WIDETRACK QB ENGLISH DIMENSIONS**

**LANDMARK TL**

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**Figure 12-3:** WideTrack QB™ features a wider nail area and extra-strong Quadra-Bond construction.

**Figure 12-4:** Use four nails for every full shingle.
STEEP SLOPE

Use six nails and four spots of asphalt roofing cement for every full laminated shingle. See below. Asphalt roofing cement should meet ASTM D 4586 Type II. Apply 1” spots of asphalt roofing cement under each corner and at about 12” to 13” in from each edge.

WIDETRACK QB METRIC DIMENSIONS

<table>
<thead>
<tr>
<th>Section</th>
<th>Measurement</th>
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<tbody>
<tr>
<td>12”</td>
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<tr>
<td>14” 1/4”</td>
<td>(375 mm)</td>
</tr>
<tr>
<td>1”</td>
<td>(25 mm)</td>
</tr>
<tr>
<td>Release Tape</td>
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<tr>
<td>1”</td>
<td>(25 mm)</td>
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<tr>
<td>Roofing Cement</td>
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WIDETRACK QB ENGLISH DIMENSIONS

<table>
<thead>
<tr>
<th>Section</th>
<th>Measurement</th>
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<td>(305 mm)</td>
</tr>
<tr>
<td>12”</td>
<td>(305 mm)</td>
</tr>
<tr>
<td>1”</td>
<td>(25 mm)</td>
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<td>Roofing Cement</td>
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</table>

LANDMARK TL

<table>
<thead>
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<th>Measurement</th>
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</thead>
<tbody>
<tr>
<td>13” 1/2”</td>
<td>(343 mm)</td>
</tr>
<tr>
<td>13”</td>
<td>(330 mm)</td>
</tr>
<tr>
<td>1”</td>
<td>(25 mm)</td>
</tr>
</tbody>
</table>

CAUTION: Excessive use of roofing cement can cause shingles to blister.

ONE CLEAN-DECK APPLICATION METHOD FOR ENGLISH DIMENSION SHINGLES

FIVE-COURSE DIAGONAL METHOD (“SEVENS AND FOURTEENS”)

PREPARING THE DECK:

- Apply underlayment as required. CertainTeed suggests that a layer of shingle underlayment be applied. For UL fire rating, underlayment is generally required. Apply flat and unwrinkled.
- Snap horizontal and vertical chalklines to assure shingles will be correctly aligned. Expose all shingles 5” (125 mm).

CAUTION: Use of other installation methods may result in an objectionable pattern.

STARTER COURSE:

1. Use CertainTeed Swiftstart or Universal Starter, or use standard three-tab self-sealing shingles with the lower 5” tab portions removed to provide starter shingles that are 7” in height (Figure 12-7).

2. For the first starter, cut 7” from one side of the starter shingles.
3. Apply the 29” piece to the lower left corner of the roof. Make sure there is 1/2” overhanging the rakes and eaves if drip edge is being used. If you are not using drip edge, make the overhang 3/4”.
4. Use full 36” long, 7” wide starter shingles for the rest of the course.
1ST COURSE: Apply a full shingle at the lower left corner of the roof. Make the lower edge and left edge lie flush with the edges of the starter course (Figure 12-8).

2ND THROUGH 5TH COURSES:

CAUTION! Failure to follow instruction steps 1-5 below will bring joints too close together and may cause unattractive patterns!

1. Cut 7" off the left end of the first shingle and save this piece for later use. Apply the 29" long piece over and above the first-course shingle. Leave the bottom 5" tab portion of the first-course shingle exposed (Figure 12-8).

2. Cut 14" off the first shingle of the third course and save this for later. Install the 22" long piece over and above the second-course shingle.

3. Apply the previously removed 14" long piece over and above the third-course shingle.

4. Apply the previously removed 7" long piece from the second course over and above the fourth-course shingle.

5. Install a full shingle against the right edge of each shingle in courses one through five.

CONTINUING UP THE ROOF:

1. Beginning again with a full shingle, repeat the five-course pattern up the left rake (Figure 12-10 – see B).

2. Fill-in courses across the roof in a stepped diagonal fashion using full shingles (Figure 12-10 – see A and B). Do not run courses straight across.

IMPORTANT: Do not align joints of shingles closer than 3 1/2" from one another.

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TWO CLEAN-DECK APPLICATION METHODS FOR METRIC DIMENSION AND LANDMARK TL SHINGLES

★ FIVE-COURSE DIAGONAL METHOD (6" AND 11")
★ FIVE-COURSE DIAGONAL METHOD (5 5/8" AND 11 1/4")

NOTE: The 6" and 11" method is shown below. The 5 5/8" and 11 1/4" method follows the same application instructions as the 6" and 11" method except the dimensions of the shingle cut-offs in the second and third courses are 5 5/8" and 11 1/4" respectively.

CAUTION: Use of other installation methods may result in an objectionable pattern.

PREPARING THE DECK:

- Apply underlayment as required. CertainTeed suggests that a layer of shingle underlayment be applied. For UL fire rating, underlayment is generally required. Apply flat and unwrinkled.
- Snap chalklines to assure shingles will be correctly aligned. Expose all shingles 5 5/8" (143 mm).

STARTER COURSE:

1. Use CertainTeed Swiftstart Starter, or three-tab self-sealing shingles with the lower tab portions removed. Be sure that the starter shingles are at least 7 5/8" in height. (Figure 12-9).

2. For the first starter, cut 6" from one side of the starter shingle.

3. Apply the remaining piece to the lower left corner of the roof. Make sure there is 1/2" overhanging the rakes and eaves if drip edge is being used. If you are not using drip edge, make the overhang 3/4".

4. Use full length starter shingles for the rest of the course.
Provide adequate ventilation under the roof deck to prevent harmful condensation in winter and heat build-up in summer.

For capping hip and ridge, apply CertainTeed "Accessory" shingles of a like color.

Figure 12-10: "Five-Course Diagonal Method" installation schematic.

Figure 12-11: Highlight of closed-cut valley details.
1ST COURSE: Apply a full shingle at the lower left corner of the roof. Make the lower edge and left edge lie flush with the edges of the starter course (Figure 12-12).

2ND THROUGH 5TH COURSES:

CAUTION! Failure to follow instruction steps 1-5 below will bring joints too close together and may cause unattractive patterns!

1. Cut 6” off the left end of the first shingle and save this piece for later use. Apply the 32\(\frac{3}{4}\)” (34” for Landmark TL) long piece over and above the first-course shingle. Leave the bottom 5\(\frac{5}{8}\)” tab portion of the first-course shingle exposed (Figure 12-12).

2. Cut 11” off the first shingle of the third course and save this for later. Install the 27\(\frac{3}{4}\)” (29” for Landmark TL) long piece over and above the second-course shingle.

3. Apply the previously removed 11” long piece over and above the third-course shingle.

4. Apply the previously removed 6” long piece from the second course over and above the fourth-course shingle.

5. Install a full shingle against the right edge of each shingle in courses one through five.

CONTINUING UP THE ROOF:

1. Beginning again with a full shingle, repeat the five-course pattern up the left rake.

2. Fill-in courses across the roof in a stepped diagonal fashion using full shingles. Do not run courses straight across.

IMPORTANT: Do not align joints of shingles closer than 3\(\frac{1}{2}\)” from one another.
CERTAINTEED SHINGLE APPLICATOR’S MANUAL

Chapter 12

ONE ROOF-OVER METHOD FOR ENGLISH DIMENSION SHINGLES

PREPARING THE ROOF SURFACE FOR REROOFING

- Make the surface of the old roof as smooth as possible by replacing missing shingles. Split and nail flat all buckled, raised tabs and curling shingles.
- It’s a good idea to cut old shingles back flush to the rakes and eaves.
- We suggest that you apply corrosion-resistant drip edge along the rakes and eaves, covering the edges of the old shingles. This will provide a uniform and straight edge that will help prevent water from seeping under the shingle edges.

“NESTING” COMBINED WITH THE FIVE-COURSE DIAGONAL METHOD (“SEVENS AND FOURTEENS”)

NOTE: Nesting is preferred over “bridging” methods when reroofing because nesting sheds water best and looks better. Nesting, as described below, is an easy application over square-tab asphalt strip shingles with a 5” exposure. If you are covering a different type or size shingle, you may need to cut back the tabs so that nesting is possible. To do this, simply cut off the leading edge of all old shingles when they are lapped less than 2 1/2” by the new shingles. This permits a flat nested application that avoids lifted edges and slumps.

STARTER COURSE:
1. Remove the tabs and the top 2” from standard self-sealing shingles, leaving 5” by 36” strips.
2. Cut 7” off the length of the first strip, apply the 29” remaining piece over the old first course at the lower left corner, overhanging the rakes and eaves 1/2” if drip edge is used, or 3/4” if no drip edge is used.
3. Continue with full-length starter shingles along the eaves

1ST COURSE:
1. The first-course shingles are made of full LandMark shingles with 2” cut off the bottom of the tabs.
2. Align the first-course strips with the left and lower edges flush with the starter course.

2ND THROUGH 5TH COURSES:

CAUTION! Failure to follow instruction steps 1-5 below will bring joints too close together and may cause unattractive patterns!

1. Cut 7” off the left end of the first shingle and save this piece for later use. Apply the 29” long piece over and above the first-course shingle. For this and all succeeding courses, align the top edge of the shingle to be applied with the bottom edge of old shingles in the next course. Exposure of first course only is reduced to 3”.
2. Cut 14” off the first shingle of the third course and save this for later. Install the 22” long piece over and above the second-course shingle.
3. Apply the previously removed 14” long piece over and above the third-course shingle.
4. Apply the previously removed 7” long piece from the second course over and above the fourth-course shingle.
5. Install a full shingle against the right edge of each shingle in courses one through five. Remember that course one shingles are only 10” wide.

CONTINUING UP THE ROOF:
1. Beginning again with a full shingle, repeat the five-course pattern up the left rake.
2. Fill-in courses across the roof in a stepped diagonal fashion using full shingles. Do not run courses straight across.

IMPORTANT: Do not align joints of shingles closer than 3 1/2” from one another.

TWO ROOF-OVER METHODS FOR METRIC DIMENSION AND LANDMARK TL SHINGLES

The same methods used for clean-deck application of these shingles are used for roof-overs. Application of these shingles over English dimension shingles is not recommended — due to the high cost of workmanship and greater risk of worker error.

HIPS AND RIDGES

SHADOW RIDGE® ACCESSORY SHINGLES FOR HIPS AND RIDGES

Shadow Ridge shingles have an accented shadow line that is designed to complement these shingles. Simply fold along the pre-cut lines and detach individual cap pieces. Save valuable installation time compared to cutting 3-tab shingles.

Figure 12-16: Shadow Ridge accessory shingles detach easily from three-piece units to make 72 individual cap pieces.
There are 24 three-piece units in each Shadow Ridge bundle, providing 72 individual caps that will cover 30 linear feet (33 \(\frac{3}{4}\) linear feet, Metric) of a hip or ridge. Each English dimension cap piece is 12" by 12" (Metric caps are 13 \(\frac{1}{4}\)" by 9 \(\frac{7}{8}\)"") and features clipped corners on the bottom edge of the exposed portion.

**APPLICATION IS AS FOLLOWS:**

1. Apply shingles up to the hip or ridge on both sides, then trim flush.

**NOTE:** The last course of shingles should have an exposure of 5" (5\(\frac{5}{8}\)" for metric) or less when the shingle cap or ridge vent is fastened in place. Otherwise, a potential water leak could occur at exposed shingle end joints. The figures used in this section illustrate the application of accessory shingles over a ridge vent; application directly to the roof deck is very similar.

2. Install caps beginning at the bottom of a hip or at either end of a ridge. Apply a starter piece that has the bottom 5" (5\(\frac{5}{8}\)" for metric) removed (Figure 12-18). Fasten the starter with two nails located about 3" from the rake edge, and 1" in from each side edge. Make sure fasteners used to apply caps penetrate at least \(\frac{3}{4}\)" into or through the decking.

**NOTE:** To assist in proper alignment when ridge vent is not used, snap a chalk line parallel to the hip or ridge along the line where the side edges of the cap shingles should be.

3. Apply a full cap shingle over the starter (Figure 12-18), and place fasteners at 5\(\frac{5}{8}\)" (6\(\frac{1}{4}\" for metric) up from the exposed bottom edge and 1" in from each side. Nails must not be exposed on the finished roof. All nail heads must be driven straight and must not cut into the shingle surface.

**NOTE:** Each cap has a laying/alignment notch at the top edge to center the piece on the ridge line, and two notches on each side to indicate the correct exposure and shadow-line placement (Figure 12-19). The side notches of the cap being applied should be aligned with the top edge of the previously applied cap.
Use Mountain Ridge accessory shingles to cover hips, ridges or rake edges. One box will cover 20 linear feet. To prevent damage to shingles during application, they must be sufficiently warm to allow proper forming.

FASTENING

IMPORTANT: Use two nails to fasten each shingle. Nails must be minimum $1\frac{3}{4}''$ (45 mm) long. For the 4” (100 mm) starter shingle, place fastener 1” (25 mm) in from each side edge and about 2” (50 mm) from the rake (or eave) edge, making sure the fastener goes $\frac{3}{4}''$ into the deck or all the way through. For each full Mountain Ridge shingle, place fasteners $8\frac{5}{8}''$ (219 mm) up from its exposed butt edge and 1” (25 mm) in from each side edge.

HIP, RIDGE AND RAKE SHINGLE APPLICATION

Apply the primary field roofing up to the hip or ridge from both sides of the roof and trim flush or lap over one side, not more than half the width of a Mountain Ridge shingle.

Assure that the installed Mountain Ridge shingles properly cover hip and ridge field shingles on both sides and the field shingles applied along rake edges. For a rake edge installation, cut the field shingles flush to the rake edge. Apply Mountain Ridge shingles ensuring they fit securely against the rake board. To assist in proper alignment, snap a chalk line parallel to the hip, ridge or rake along the line where the side edges of the Mountain Ridge shingles should fall.

Prepare a 4” Starter shingle by cutting off the lower 8” color granule butt portion of one Mountain Ridge shingle. Apply the 4” starter piece (with sealant nearest the outer edge) over the bottom corner of the hip or rake, or on either end of the ridge, overhanging the corner or end by approximately $\frac{1}{2}''$ and bending the starter shingle along its centerline to form into place (see figures below.) Install a nail on each side about 2” up from the starter shingle’s exposed butt edge and 1” in from each side edge of the shingle. The 8” piece that was cut off may be used to finish the opposite end of hip, ridge or rake.

Next, apply a full Mountain Ridge shingle over the installed starter shingle, bending it along its centerline and forming into place over the hip, ridge or rake, flush with the bottom and side edges of the starter shingle. Install a nail on each side of the shingle $8\frac{5}{8}''$ up from the bottom edge and 1” in from each side edge.

Continue application of the Mountain Ridge shingles along the hip, ridge or rake as shown. Expose Mountain Ridge shingles 8”, covering all fasteners.

Here’s a Tip… In the winter put hip and ridge cap shingles in your truck with the heater blasting for 20 minutes so the caps don’t crack when formed. (Thanks to Mark Dulz, Richmond, MI.)