



Starter Shingles Installation Instructions

SMART START[®]

WINDSOR[®]
STARTER SHINGLE



Directions for Applying Malarkey Smart Start® and Windsor® Starter Starter Shingles

GENERAL INSTRUCTIONS

Install Malarkey 210 *Smart Start*® and 212 *Windsor*® Starter starter shingles according to adopted building code and local amendments. To qualify for warranty protection and obtain stated coverage, the installation instructions detailed here must be followed. Contact Malarkey Technical Services or check our website at WWW.MALARKEYROOFING.COM for the most current version.

For current warranty information, visit:
WWW.MALARKEYROOFING.COM/warranties.

IMPORTANT

- ALWAYS wear fall protection when working on a roof.
- Underlayments can be slippery, particularly when wet or covered with frost. Be careful when walking on them.

Windsor® Starter shingles are one piece, but Smart Start® starter shingles are designed to be separated lengthwise at a perforation so you get two, full-size, code-compliant starter shingles in one. The perforation is in the middle of the shingle, 8 $\frac{3}{16}$ " (208 mm) from each edge, and both pieces have seal-down strips. (See Figure 1)

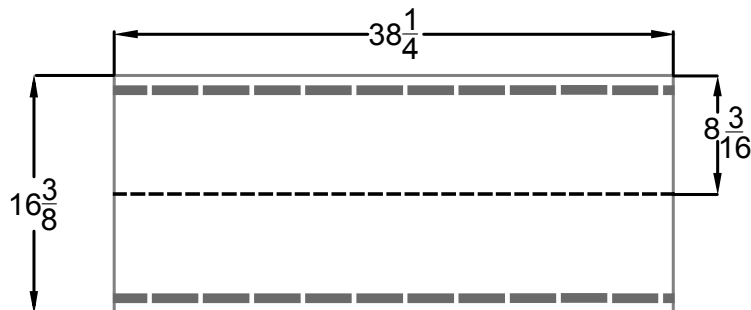


Figure 1 - Smart Start® Dimensions and Identification of the Perforation and Seal-down Strips

Smart Start® starter shingles (or equivalent conforming to ASTM D3462) are required under *all* Malarkey shingles, including the Windsor®, while Windsor® Starter is only required under Windsor® shingles. Besides eaves, it is recommended Smart Start® be installed on the rake edges of roof to provide a clean edge and increase wind resistance¹.

Do not apply shingles on roofs having a slope less than 2" (51 mm) per 12" (305 mm).

Preparing the Roof Deck: Prepare the roof deck for application of starter shingles by installing *drip edge flashing* at the eaves, followed by Malarkey underlayment (or equivalent), and then additional flashing along rake edges once underlayment is in place. See WWW.MALARKEYROOFING.COM for shingle installation instructions that include these materials.

SHINGLE FASTENING

Type of Fasteners: Nails must be galvanized 12-gauge with $\frac{3}{8}$ " (10 mm) head or an equivalent, corrosion-resistant roofing nail, and sufficient in length to penetrate through the roof deck or into the deck a minimum of $\frac{3}{4}$ " (19 mm).

1 Factory-produced Smart Start® is required on eaves and rakes for Emerald Pro and Premium Warranties and Steep Slope NDL Warranties.

Malarkey approves the use of hand-nailing and/or pneumatic nailers for applying fasteners, but nails must be driven flush to the shingle surface and not overdriven, underdriven or driven at an angle, especially on low slope installations where water runs off less freely and leaks could result. When fastening adjacent shingles, butt them loosely together to prevent buckling.

The use of staples is not an approved fastening method. (See Figure 2)

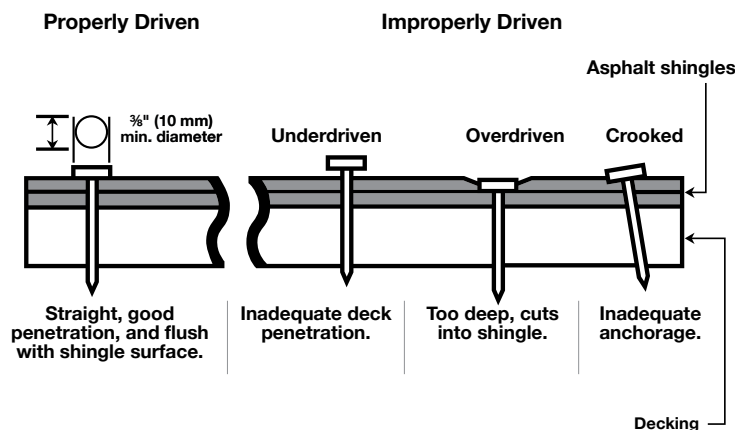


Figure 2 - Nailing Instructions

APPLICATION OF SMART START® STARTER SHINGLES

Eaves: Smart Start® starter shingles (or equivalent) are installed with the factory-applied seal-down strip adjacent to the roof edge. For proper end joint offsets in 3-tab and laminate shingle installations, cut 6" (152 mm) from the left side of a Smart Start® starter shingle and apply at a lower corner of roof. The starter course should overhang the rake and eave edges by $\frac{1}{4}$ " - $\frac{3}{4}$ " (6-19 mm). Continue across the eave with full-length starters. When fastening, butt starter shingles loosely together to prevent buckling.

Nailing Pattern: Use four (4) fasteners for each starter shingle. Install with fasteners placed 1 $\frac{1}{2}$ " - 3" (38-76 mm) up from the eave, one fastener 1" (25 mm) from each end of the starter and the remaining two (2) evenly spaced on the same line as the end fasteners. Do not place fasteners in the seal-down strip. (See Figure 3)

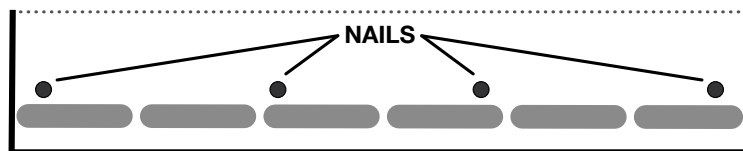


Figure 3 - Smart Start® Fastening Pattern

Rakes: Smart Start® starter shingles may also be used on the rake edges of roof to provide a straight edge, increase wind resistance, and reduce water runoff.

Install Smart Start® first along the eave, then the rake. Where they meet at the roof corner, butt the rake course loosely against the eave course as shown. (See Figure 4)

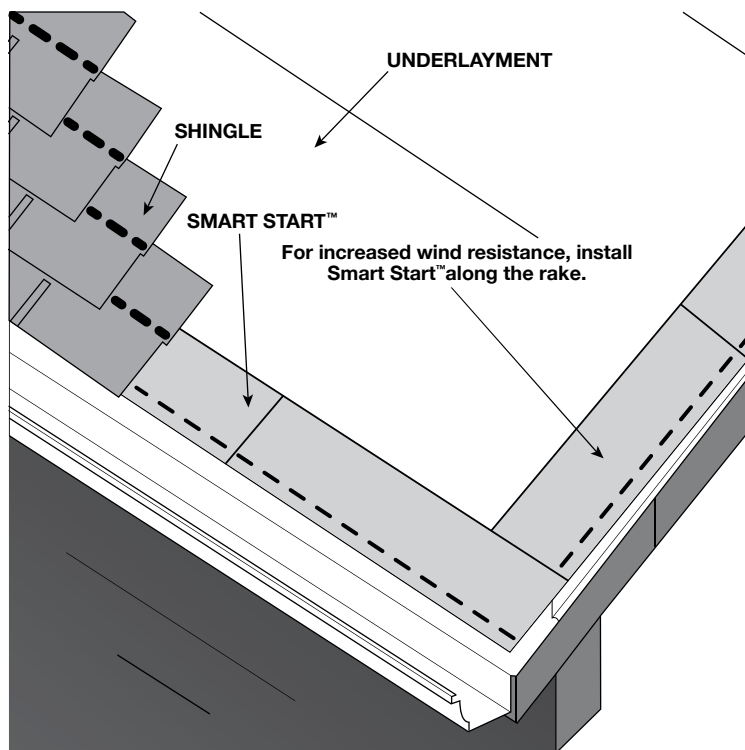


Figure 4 - Application of Smart Start® along the Eave and Rake Edges of Roof

APPLICATION OF WINDSOR® STARTER SHINGLES

Windsor® shingle roofs require both Smart Start® shingles *and* Windsor® Starter shingles. Windsor® Starter shingles share the same color blends as Windsor® shingles.

Smart Start® Starter Course: Windsor® shingle installations begin with an initial course of Smart Start® (or trimmed 3-tab) shingles, but unlike 3-tab and laminate shingle installations, there is no need to cut/shorten the first Smart Start® shingle. Install Smart Start® across the roof, and fasten as described above.

Windsor® Starter Course: Trim the end of the first Windsor® Starter shingle, $6\frac{3}{8}$ " (162 mm), and lay it over the Smart Start® starter course, positioning it so the full color blend overhangs the Smart Start® starter by approximately $\frac{1}{8}$ " (3 mm).

Fasten with four (4) nails in-between the paint lines, approximately 1" (25 mm) from each side of the starter and the remaining two (2) evenly spaced on the same line. Continue across the roof, butting the shingles loosely together to prevent buckling, and fasten in place. (See Figure 5)

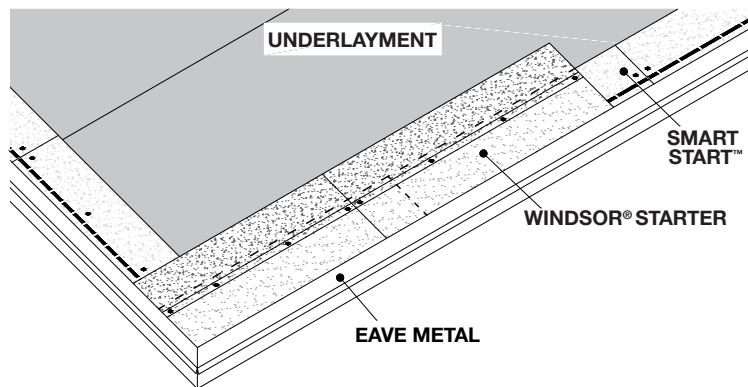


Figure 5 - Application of Windsor® Starter Shingles over Smart Start® at the Eave Edge of Roof

Steep Slope Fastening of Starter Courses: Roof decks with slopes greater than 21" (533 mm) per 12" (305 mm) require installation with six (6) fasteners per starter shingle, one fastener 1" (25 mm) from each end and the remaining four (4) evenly spaced on the same line.

Note: See Malarkey's *Shingle & Accessory Warranty* online for any additional requirements related to specific coverages.

Final Note

These instructions are meant to act as a general guide. If you have questions about this installation or any Malarkey roofing product, please contact our Technical Services Department weekdays at (800) 545-1191 or (503) 283-1191, 7:00 am to 5:00 pm, Pacific Time. You can also email us at: malarkey.technicalinquiries@holcim.com. Thank you.



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