



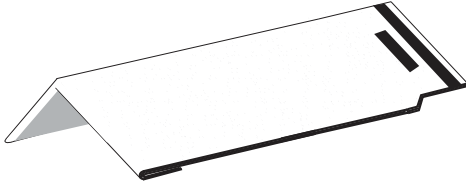
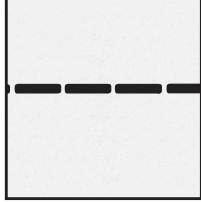




Hip & Ridge Shingle Installation Instructions

EZ-RIDGE[®]
EZ-RIDGE[®] XT
RIDGEFLEX[®]

Directions for Applying Malarkey Hip & Ridge Shingles

MALARKEY HIP AND RIDGE SHINGLE SPECIFICATIONS

Malarkey Roofing Products® manufacture two types of hip and ridge shingles (two sizes each), and all feature Scotchgard™ Protector from 3M and are UL 2218 Class 4 impact-resistant.

	HIGH PROFILE		LOW PROFILE	
				
	222 EZ-RIDGE® 	224 EZ-RIDGE® XT 	225 RIDGEFLEX® 	227 RIDGEFLEX® 
WIDTH	8" (203 mm)	10" (254 mm)	9 7/8" (251 mm)	12" (305 mm)
LENGTH	11 1/2" (292 mm)	11 1/2" (292 mm)	13 1/4" (337 mm)	13 1/4" (337 mm)
EXPOSURE	8 1/4" (210 mm)	8 1/4" (210 mm)	5 5/8" (143 mm)	5 5/8" (143 mm)
MALARKEY HIP AND RIDGE SHINGLES INCLUDE A FACTORY-APPLIED, THERMALLY ACTIVATED SEAL-DOWN ADHESIVE THAT PROVIDES ADDITIONAL PROTECTION AGAINST BLOW-OFF. ALL FEATURE ALGAE-RESISTANT SCOTCHGARD™ PROTECTOR FROM 3M.				

GENERAL INSTRUCTIONS

Malarkey hip and ridge shingles are recommended for all Malarkey shingle roofs. When bundled with other Malarkey products to form a complete roofing system, enhanced warranties are available.

Install Malarkey hip and ridge 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.

We assume no responsibility when there has been improper application, failure to properly prepare the surface or provide adequate ventilation according to FHA or HUD minimum property standard requirements and adopted building code.

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.

Precautions: Shingles with Scotchgard™ Protector from 3M require hip and ridge shingles with Scotchgard™ Protector to receive Malarkey's Limited Lifetime Scotchgard™ Protector Warranty. All Malarkey hip and ridge shingles feature Scotchgard™ Protector.

To avoid damage to hip and ridge shingles in cold weather, Malarkey recommends warming shingles sufficiently to prevent damage during installation.

Apply Malarkey hip and ridge shingles beginning at the bottom of the hip or from the end of the ridge opposite the direction of prevailing winds. EZ-Ridge® products can also be used on rake edges.

Complete hips before ridges because ridge applications have to overlap the hips at points where the two intersect. Snapping a chalk line will help maintain a straight line when installing ridge shingles.

In re-roofing situations where the old roofing is not being removed, it is still recommended to remove and replace the hip and ridge shingles.

FASTENING INSTRUCTIONS

Type of Fasteners: Fasteners must be minimum 12-gauge (0.105 inch [3 mm]) shank, galvanized steel, stainless steel, aluminum or copper roofing nails, with a 3/8" (10 mm) head, compliant with ASTM F1667, and long enough to penetrate through all layers of roofing materials and at least 3/4" (19 mm) into the roof sheathing. Where the roof sheathing is less than 3/4" (19 mm) thick, the fasteners shall penetrate *through* the sheathing.

Malarkey approves the use of hand-nailing and/or pneumatic nailers for applying fasteners, but nails must not be over-driven to cut into shingles or underdriven. Fasteners should be seated flush to the shingle surface, as illustrated. Nails should penetrate through all layers of shingles.

The use of staples is not an approved fastening method. (See Figure 1)

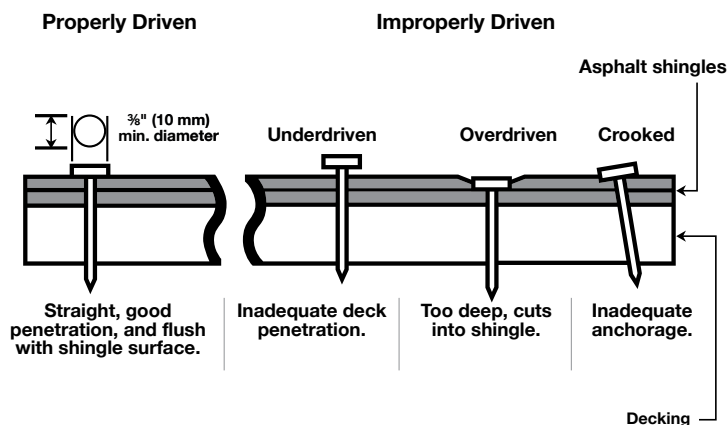


Figure 1 - Nailing Instructions

Hand-Sealing: Malarkey hip and ridge shingles are manufactured with strips of a factory-applied, thermal sealant that is activated by the heat of the sun after the shingle is on the roof. Exposure to the sun's heat bonds each shingle to the one below for wind resistance.

A variety of conditions like cold weather, high winds or blowing dust, however, can affect the ability of the sealant strip to activate and prevent shingles from self-sealing during, or shortly after, installation. If shingles have not sealed after a reasonable time period, *hand-sealing* (also called hand-tabbing) is strongly recommended.

Note: Malarkey's wind warranties apply only when shingles are sealed, whether by hand-sealing or activation of the self-sealing strips. Failure to seal under adverse circumstances like those described above is not a manufacturing defect.

To hand-seal a shingle, apply quarter-size dabs of asphalt roof cement conforming to ASTM D4586 under each side of the shingle, and press shingles firmly into the cement. Excessive use may cause blistering; correct amounts should not bleed out from under the shingle.

LOW-PROFILE INSTALLATION (10" and 12" RIDGEFLEX® HIP AND RIDGE SHINGLES)

Prepare for application by separating each hip and ridge shingle at the perforations: The 10" RidgeFlex® shingle produces four (4) individual hip and ridge strips (**See Figure 2**), and the 12" RidgeFlex® shingle produces three (3) (**See Figure 3**). Note the presence of seal-down strips.

Each scored strip is 13¼" (337 mm) tall and has an exposure of 5⅝" (143 mm). You will be installing these individual pieces, and all are installed sealant side up.

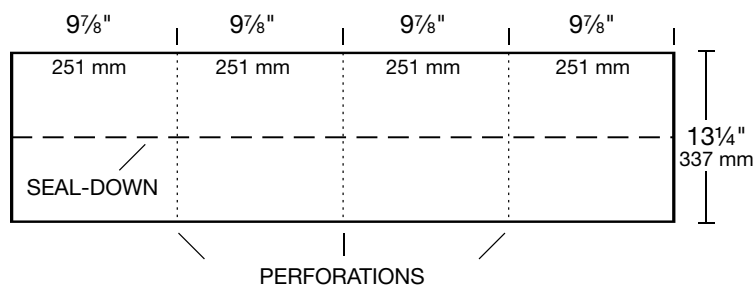


Figure 2 - 10" RidgeFlex® Hip and Ridge Shingle

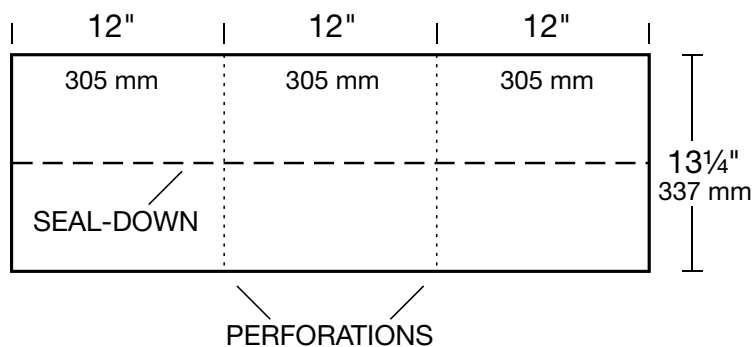


Figure 3 - 12" RidgeFlex® Hip and Ridge Shingle

Instructions and detail drawings to follow in this section show the installation of shingles along a roof ridge, but hips are essentially the same. Application begins at the bottom of the hip or from the end of the ridge opposite the direction of prevailing winds with a hip and ridge *starter shingle*.

RidgeFlex® Starter Shingle: Create a starter shingle by cutting off the 5⅝" (143 mm) exposed portion of a RidgeFlex® shingle strip, and using the 7⅝" (194 mm) remainder as a starter. (**See Figure 4**)

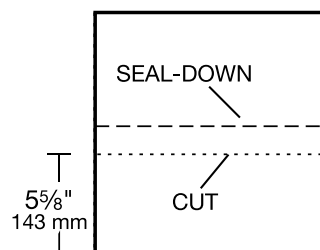


Figure 4 - RidgeFlex® Shingle Strip for Use as a Starter Shingle

Apply the starter shingle (with seal-down strip adjacent to the roof edge) over the bottom corner of the hip or on either end of the ridge, overhanging the corner or end by ¼" - ¾" (6-19 mm), and bending the starter shingle along its centerline to form into place (ensure shingles are sufficiently warm to avoid cracking).

Fasten with two nails, approximately 3" (76 mm) back from the leading edge and 1" (25 mm) up from each side. (**See Figure 5**)

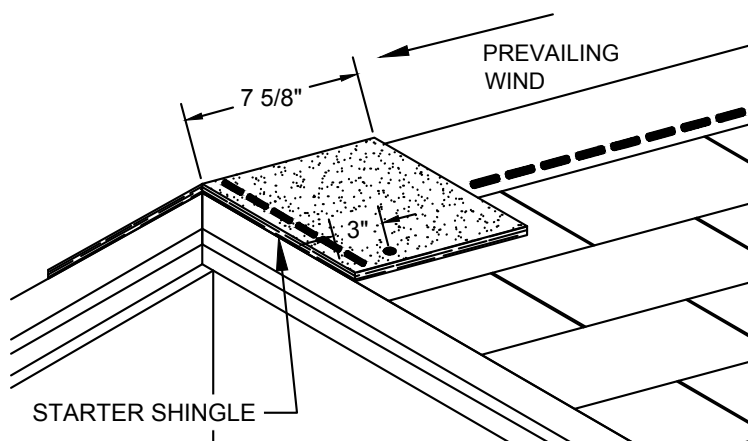


Figure 5 - Placement and Fastening of the RidgeFlex® Starter Shingle (3-tab Shingle Roof)

RidgeFlex® Hip and Ridge Shingles: Lay the first full-size shingle on top of the starter shingle (maintaining the overhang). Fasten with two nails, 1" (25 mm) more than the designed exposure and 1" (25 mm) up from each side so succeeding shingles conceal nailheads.

To aid installers for determining the *exposed* portion of a RidgeFlex® shingle, it's manufactured with a paint line in the headlap area, *opposite* the exposed portion. (See Figure 6)

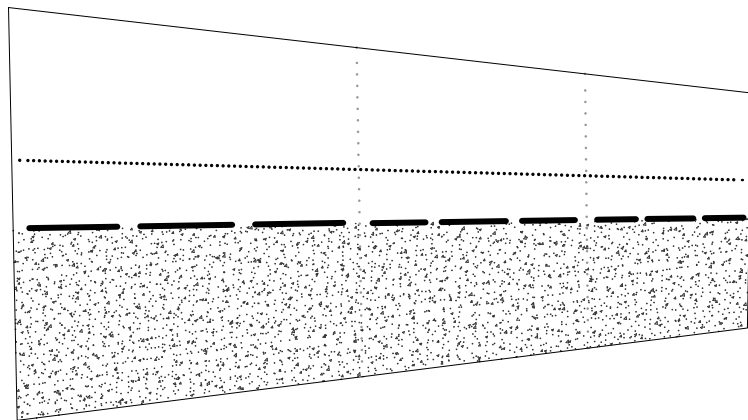


Figure 6 - Paint Line in Headlap Area of Shingle Is Opposite the Exposed Portion

Continue installing shingles across the ridge, maintaining the exposure of 5 $\frac{5}{8}$ " (143 mm) and fastening with one nail to a side. (See Figure 7)

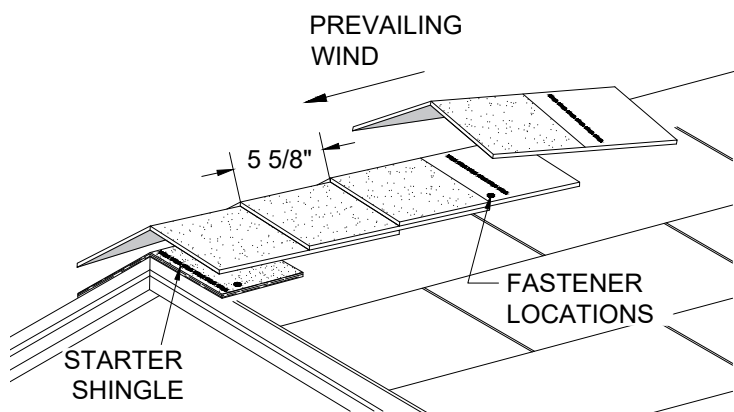


Figure 7 - Placement and Fastening of RidgeFlex® Shingles, Maintaining the 5 $\frac{5}{8}$ " Exposure

At the end of the ridge, cut a shingle strip, and use the 5 $\frac{5}{8}$ " (143 mm) exposed portion of a RidgeFlex® shingle to create an *end cap*, maintaining the exposure of 5 $\frac{5}{8}$ " (143 mm). Trim to fit and set the end cap in asphalt roof cement conforming to ASTM D4586, and press down firmly to seal. (See Figure 8)

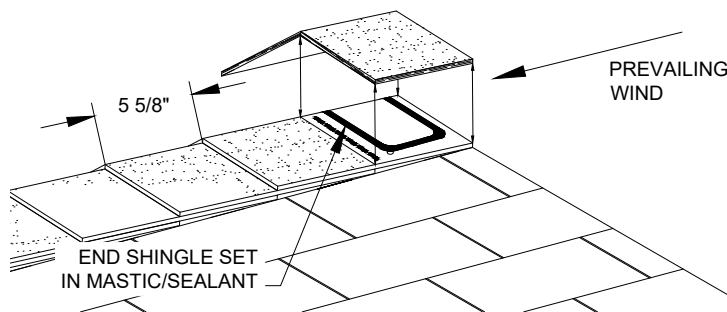


Figure 8 - Installation of RidgeFlex® Shingles; End Cap Set in Mastic

Should adverse conditions exist (like high winds), the end cap can also be face-nailed. Place two (2) nails on each side, 1" (25 mm) back from each end, and 1" (25 mm) up from the sides. Cover the nailheads with a dab of sealant.

HIGH-PROFILE INSTALLATION (EZ-RIDGE® AND EZ-RIDGE® XT HIP AND RIDGE SHINGLES)

High-profile hip and ridge shingles are recommended to accompany laminate and designer shingle applications, but Malarkey RidgeFlex® shingles may also be used.

Given the added thickness of EZ-Ridge® shingles, ensure your fasteners are long enough to penetrate all layers and at least $\frac{3}{4}$ " (19 mm) into the roof sheathing. Where the roof sheathing is less than $\frac{3}{4}$ " (19 mm) thick, the fasteners should penetrate through the sheathing.

Detail drawings to follow in this section show the installation of shingles along a roof ridge, but hips are essentially the same. Instructions for application along rake edges are at the end of the section.

Application begins at the bottom of the hip or from the end of the ridge opposite the direction of prevailing winds with a *starter shingle*.

EZ-Ridge® Starter Shingle: To create an EZ-Ridge® starter shingle, cut off the 8 $\frac{1}{4}$ " (210 mm) *exposure* portion of the shingle, and use the remaining 3 $\frac{1}{4}$ " (83 mm) *cutout* portion (with sealant strip) as the starter. (See Figure 9)

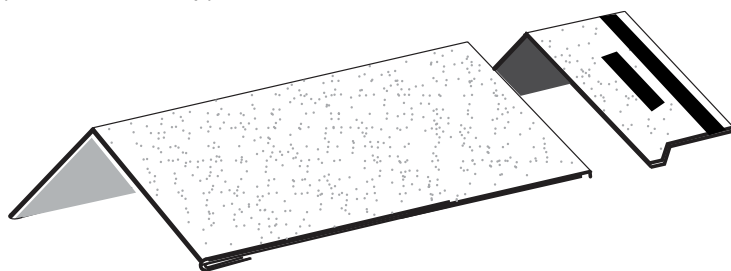


Figure 9 - Cutting an EZ-Ridge® Shingle to Make a Hip and Ridge Starter Shingle

Save the exposure portion because it can be used as the *end cap* on the opposite end of the ridge.

Note: The longer strip on the end of EZ-Ridge® shingles is a film strip that prevents the shingles from sticking together while in the box they're packaged in. It is not designed to be removed.

Place the EZ-Ridge® starter shingle flush to the rake at the peak, and position it so the seal-down strip is adjacent to the roof edge. Push down on the center of the shingle and adjust to fit the pitch of roof.

Fasten with two (2) nails, one (1) on each side, $\frac{3}{4}$ " (19 mm) behind the cutout and $\frac{1}{2}$ " (13 mm) up from the side. If installed correctly, the fasteners should be covered by the EZ-Ridge® shingles to come, leaving none exposed.

EZ-Ridge® Hip and Ridge Shingles: Apply a full-size shingle over the starter, and overhang the end of the ridge by $\frac{1}{4}$ " - $\frac{3}{4}$ " (6-19 mm). Push down on the center of the shingle and adjust to fit the pitch of roof.

Fasten this shingle and those to follow with two (2) nails, one (1) on each side, $\frac{3}{4}$ " (19 mm) behind the cutout (i.e., not on the exposed part of the shingle) and $\frac{1}{2}$ " (13 mm) up from the side.

Continue installing EZ-Ridge® shingles across the ridge, overlapping each with the side cutouts of the underlying shingle, and producing a consistent exposure of $8\frac{1}{4}$ " (210 mm). Fasten in the same manner as the first. (See Figure 10)

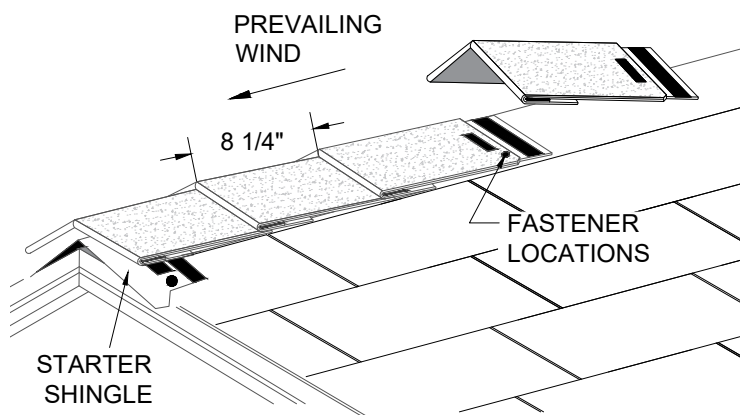


Figure 10 - Placement and Fastening of EZ-Ridge® Shingles, Maintaining the $8\frac{1}{4}$ " Exposure

For the last hip and ridge shingle in the run, remove the cutout portion of an EZ-Ridge® shingle and trim the exposure portion to fit or use the exposure portion of the shingle you cut earlier when creating the starter.

Set this *end cap* in asphalt roof cement, maintaining the $8\frac{1}{4}$ " (210 mm) exposure. (See Figure 11)

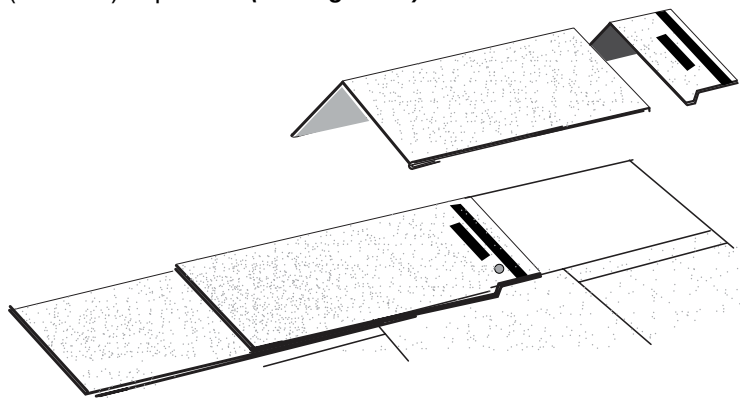


Figure 11 - End Cap Cut to Fit and Set in Mastic

Should adverse conditions exist (like high winds), the end cap can also be face-nailed. Place two (2) nails on each side, 1" (25 mm) back from each end, and 1" (25 mm) up from the sides. Cover the nailheads with a dab of sealant.

Note: The end cap can also be flipped around to preserve the high-profile appearance and give a finished look to the ridge. Position it to overhang the end of the ridge by $\frac{1}{4}$ " - $\frac{3}{4}$ " (6-19 mm). (See Figure 12)

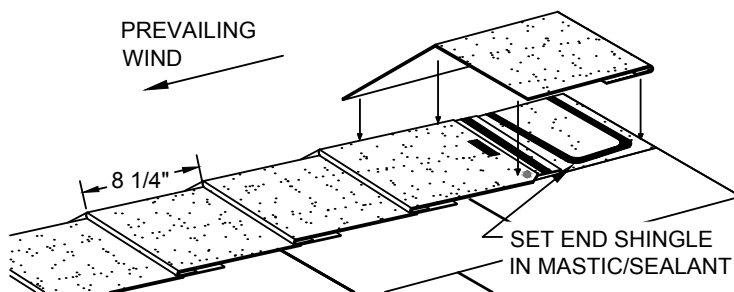


Figure 12 - Optional Positioning and Fastening of the EZ-Ridge® End Cap

EZ-RIDGE® RAKE EDGE INSTALLATION

Instructions are the same as those above with these exceptions:

1. Always start at the low end of the roof.
2. Have the high-profile, finished end of EZ-Ridge® shingles in the lowest position. (See Figure 13)

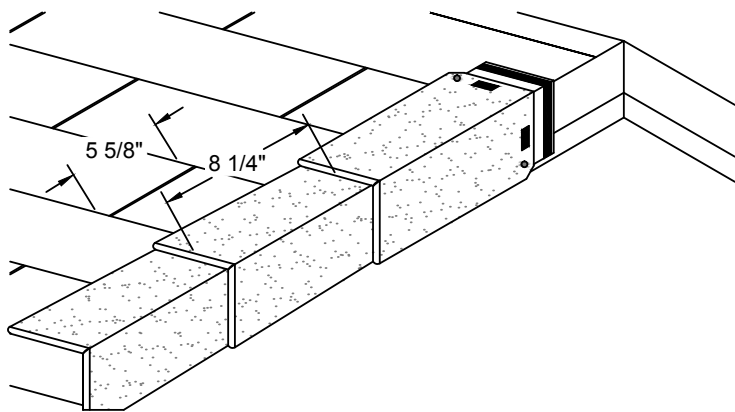


Figure 13 - Application of EZ-Ridge® Shingles on Rake Edges of the Roof

Note: Installation with exposed nails may affect the aesthetic appeal of EZ-Ridge® shingles.

FINAL NOTE

These instructions are meant to act as a general guide. If you have questions about these installations 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.



P.O. Box 17217
Portland, OR 97217-0217

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