Malarkey Roofing Products®

Additional Installation Requirements: Certified Pro Warranty Projects



Additional Installation Requirements for Steep Slope, Certified Pro Warranty Projects

GENERAL INSTRUCTIONS

Malarkey's standard roofing products installation instructions and detail drawings must be followed unless these *Additional Requirements* supersede them or written approval has been granted by the Technical Services Department.

Certified Pro warranties require Malarkey shingles and *three or more* accessory products where applicable. The choice of shingles and accessory products include:

Laminates

- Highlander®, Highlander® AR or Highlander® Cool
- Vista®, Vista® AR, or Vista® Cool
- Legacy® Scotchgard™

Designer Heavyweights

- Windsor® Scotchgard™

Accessory Products

- Smart Start® Starter Shingles
- Windsor® Starter Shingles (for Windsor® installations only)
- EZ-Ridge® or EZ-Ridge® XT Hip & Ridge Shingles
- 10" or 12" RidgeFlex® Hip & Ridge Strips
- Right Start® UDL Field Underlayment
- Arctic Seal® Self-Adhering Underlayment
- Secure Start® HT Self-Adhering, High Temp Underlayment
- Secure Start® Synthetic *Field* Underlayments: Secure Start® Lite, Secure Start® Plus, and Secure Start® Permeable

PRELIMINARY REQUIREMENTS AND RECOMMENDATIONS

All work must be completed by a *Malarkey Certified Pro* or *Premium Contractor* and installed according to Malarkey's latest published installation instructions and adopted building code.

The building structure and roof deck must be sound, comply with all local codes and ordinances, and sufficient to support the weight of the roofing system and transient load during application.

The roof deck must be an acceptable substrate:

- Sheathing panels shall meet adopted building code requirements and be at least 3/8" (10 mm) thick, exterior-grade plywood or 7/16" (11 mm) oriented strand board (OSB). Panels should be supported, gapped, and securely nailed to all framing members per APA recommendations.
- Malarkey strongly recommends installing sheathing when wood board decking is the existing substrate and required when boards are greater than 6" (152 mm) wide. Problems with the performance of your roofing system, such as leaks and buckling, increase if installed directly over wood board decks. Failure to use properly conditioned deck materials can result in deck movement, which can damage the roof covering and may void your warranty.
- **Installing over existing roofing materials (i.e., re-covering) or deteriorated wood products is not acceptable. A complete tear-off is required.**
- Direct-to-deck, ASTM D1970 self-adhering underlayments can remain in place; ensure the surface of the roof deck is sound, smooth, and free of debris and protrusions.

Besides replacement of warped or rotted decking, repairs are required at other areas of roof that could lead to leaks unrelated to proper installation of the Malarkey roofing system such as deteriorated chimney mortar joints, etc.

Ventilation must comply with FHA Minimum Property Standards.

Use only manufactured Malarkey products for starter and hip & ridge shingles (see list opposite).

DRIP EDGE FLASHING

Install *drip edge flashing* (drip edge, eave or rake metal) along the eave and rake edges of shingle roofs.

Install drip edge first along the eaves, and later on the rakes once the field underlayment has been applied.

UNDERLAYMENTS

Field underlayment installation begins at the eave edge. At roof-to-wall transitions, turn all layers up the wall 3" minimum.

All buckles and wrinkles must be corrected prior to installation of shingles. Cut and install, in water-shedding fashion, membrane patches according to the number of plies affected.

Plastic cap or metal cap fasteners required when mechanically fastening *any* underlayment. No staples without plastic caps.

Where required by building code or in climates with a history of ice damming, install self-adhering Arctic Seal or Secure Start HT underlayments up and out onto the roof as necessary to a point not less than 24" (610 mm) past the interior warm inside wall of the house or above the expected level of ice dams. ***(See Figure 1)***

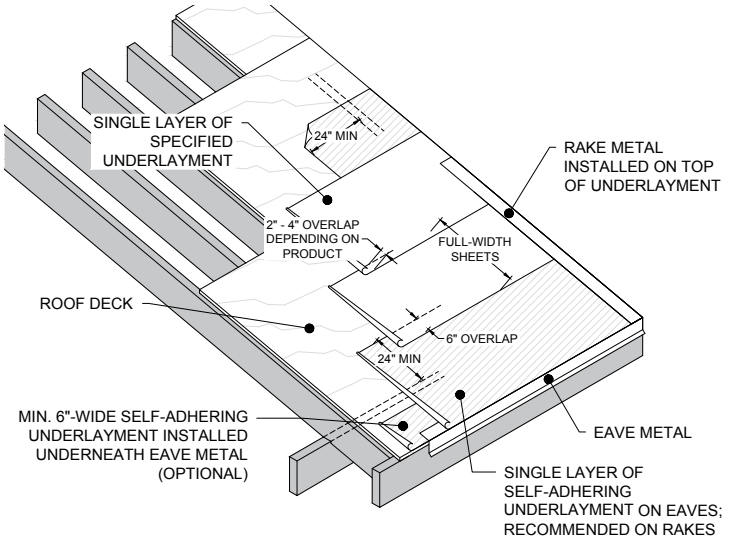


Figure 1 - Application of Self-Adhering and Field Underlayments on 4+ Roof Slopes in Ice Dam Regions

UNDERLAYMENT CONFIGURATIONS

Slopes 4:12 and Above, One (1) layer of the following:

- Right Start UDL
- Secure Start Lite, Plus, or Permeable
- Arctic Seal
- Secure Start HT

Slopes 2:12 up to 4:12, A *double* layer* of the following ***(See Figure 2)***:

- Right Start UDL
- Secure Start Lite, Plus, or Permeable
- Arctic Seal
- Initial layer of Secure Start HT or Arctic Seal and one additional layer of mechanically-attached underlayment (Right Start UDL or Secure Start Lite/Plus/Permeable)

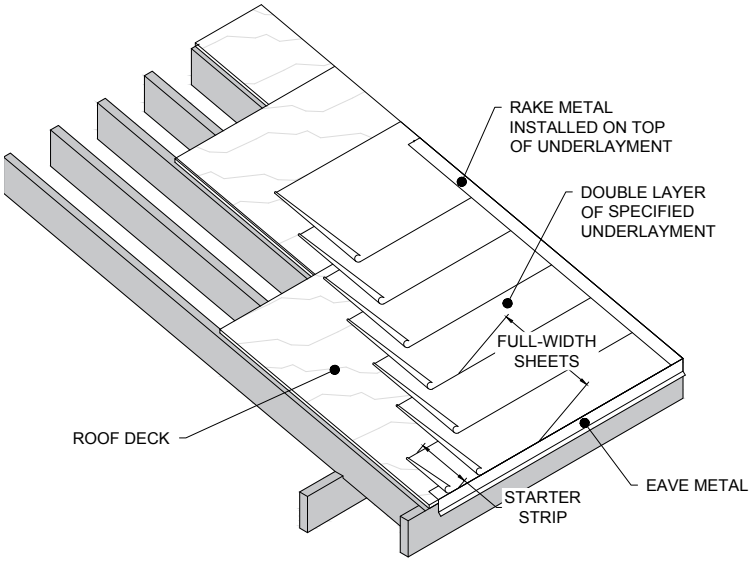


Figure 2 - Double-Layer Application of Field Underlayments on Roof Slopes 2:12 Up to 4:12

*If local building code has adopted 2015 or later IBC or IRC, a single layer of ASTM D1970 underlayment (Arctic Seal®, Secure Start® HT) is acceptable as an exception per the I-Codes.

FLASHING

Follow Malarkey's standard shingle instructions for installation of *sheet metal* flashings and accessories. No *plastic* flanged flashings. ***(See Figure 3)***

If electing to apply *self-adhering* Arctic Seal stripping plies at roof deck-to-vertical transitions (sidewalls, chimneys, curbs, skylights, etc.), do this prior to installation of flashing.

Any obstructions greater than 30" (762 mm) in width will need to have a cricket installed on the upslope side of the curb.

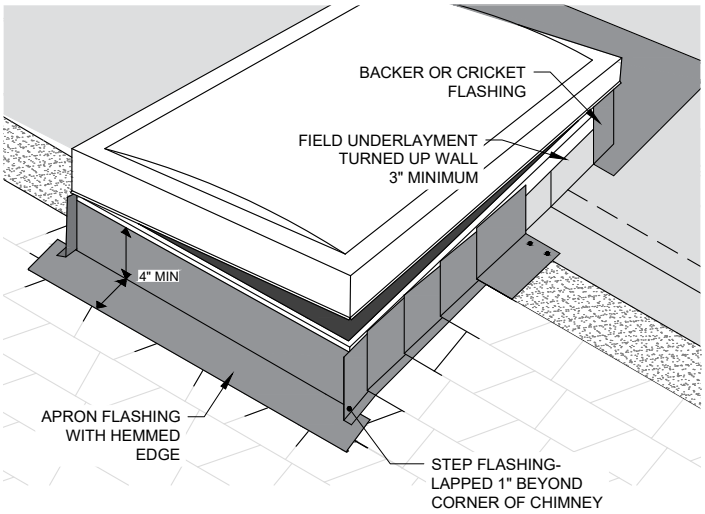


Figure 3 - Installation of Field Underlayment and Metal Flashings at Roof Openings

SMART START STARTER SHINGLES

Apply to both eave and rake edges of roof; overhang the drip edge flashing, ¼"- ¾" (6 -19 mm).

Fasten with four (4) nails placed 1½"- 3" (38 -76 mm) back from the roof edge: one (1) nail 1" (25 mm) from each end and the other two (2) evenly spaced on the same line as the end fasteners. Do not place fasteners in the seal-down strip. No staples. ***(See Figure 4)***

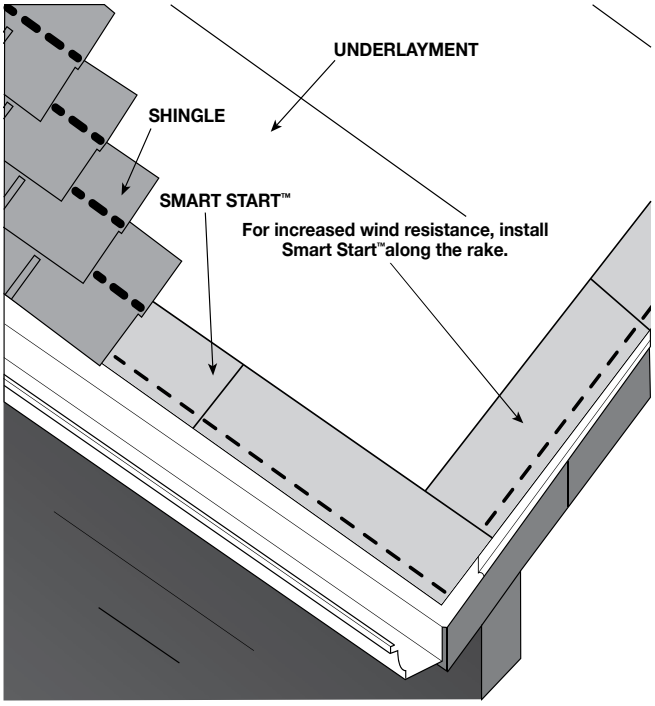


Figure 4- Application of Smart Start® along the Eave and Rake Edges of Roof

WINDSOR STARTER SHINGLES

Installation of Windsor Starter shingles *must be preceded* by a starter course of Smart Start (fastening instructions above).

Windsor Starter should completely overlap the starter course and overhang it by 1/8" (3 mm).

Fasten with four (4) nails placed in-between the nailing lines: one (1) nail 1" (25 mm) from each end and the other two (2)

evenly spaced on the same line as the end fasteners. ***(See Figure 5)***

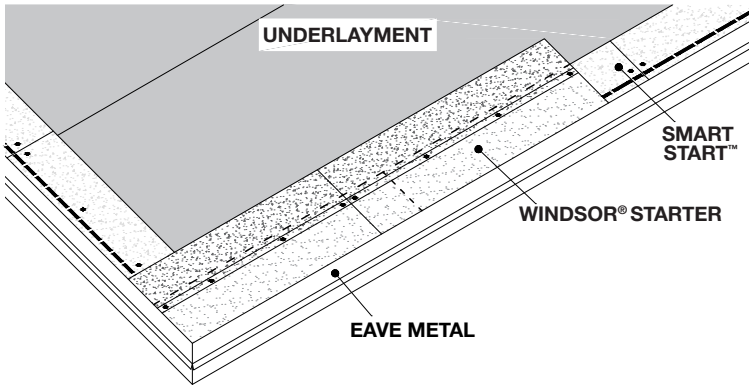


Figure 5 - Application of Windsor® Starter Shingles over Smart Start® at the Eave Edge of Roof

NAILING

For roof slopes >21:12, shingles, including starter shingles, must be 6-nailed; 9-nails for Windsor shingles, and hand-sealed with asphalt roof cement conforming to ASTM D4586 (not necessary to hand-seal the starter shingles).

ROOF VALLEYS

Closed-cut and open metal valley details are approved. Follow Malarkey's standard installation instructions for constructing roof valleys. ***(See Figures 6 and 7)***

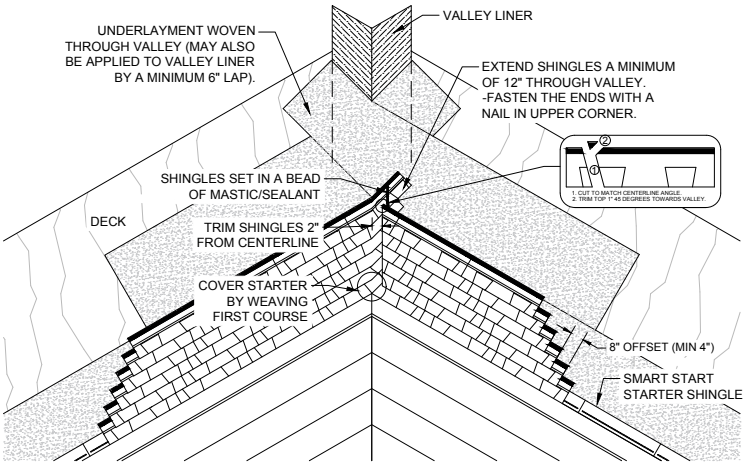


Figure 6 - Laminate Shingle Closed-Cut Valley Application

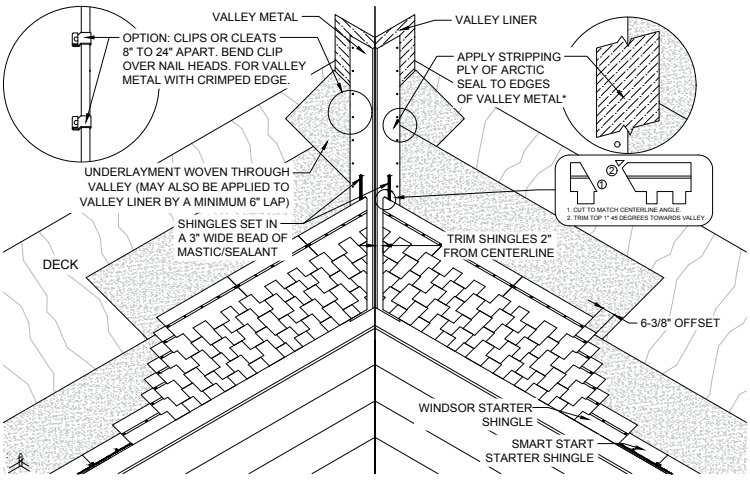


Figure 7 - Windsor Shingle Open Metal Valley Application

MISCELLANEOUS REQUIREMENTS

When runoff from an upper roof drains onto a lower, it is recommended water be channeled to a gutter by a downspout extension or *trough* installed under each downspout. Doing so will protect shingles from damage and avoid unsightly streaking. ***(See Figure 8)***

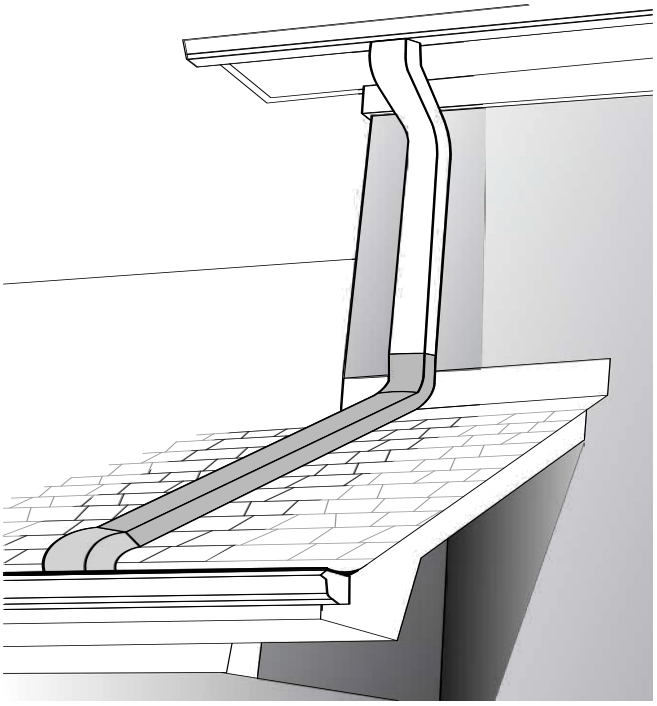


Figure 8 - Channeling Runoff to a Gutter With a Downspout Extension

Vented Nail Base Assemblies: Contact Malarkey's Technical Services Department on any projects with a vented nail base product.

CONTACT US

Malarkey Technical Services is available for questions at (800) 545-1191 or (503) 283-1191, 7:00 am to 5:00 pm Pacific Time, or email malarkey.technicalinquiries@amrize.com. Thank you.

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