EUROSHIELD

PROTECTING YOUR HOME | CONSERVING OUR PLANET

Recommended installation procedures for Rundle Slate and Ranchland Shake.

This installation manual is specifically designed for the installation of Euroshield Shingles in steep-slope applications of 4/12 pitch or above. If you require assistance or have any other questions regarding the installation process, please reach out to Technical Support at our toll-free number (877) 387-7667.

Important: Prior to proceeding with the installation of the Euroshield, it is crucial to carefully read the instructions provided and review the accompanying installation diagrams. To address any inquiries or concerns regarding the outlined installation procedures, please seek assistance by calling our toll-free number before commencing your project. You can also access an installation video online at www.euroshieldroofing.com or by contacting our toll-free number (887) 387-7667. Note that Euroshield cannot be held responsible for any expenses incurred by customers resulting from improper installation procedures.

Contact us at:
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Email: info@Euroshieldroofing.com

G.E.M. Inc. is the manufacturer & distributor of Euroshield rubber roof roofing systems manufactured in Calgary, Alberta, Canada.

ICC (International Building Code (IBC) and International Residential Code (IRC))
QAI-CERUS-1013

Ver. 231031B

PRE-INSTALLATION

Note: It is crucial to have Euroshield installed by a professional roofing contractor following Euroshield application instructions and requirements. Euroshield cannot be held responsible for leaks or defects arising from inadequate surface preparation, improper application, or use of non-approved materials. This includes the mandatory use of smooth, flat roof decks in good condition, synthetic roofing underlayment, approved sealants or adhesives, and proper attic ventilation as per standard minimum requirements. Installers are responsible for reviewing building codes and property standards before installation. Installation instructions can be found at www.euroshieldroofing.com.

The recommended minimum temperature for installing Euroshield products is -20 degrees Celsius (14F).

If installing on a mansard or vertical slope, please contact us prior to installing.

SAFETY

To ensure safety, it is advised to use fall protection equipment while engaging in roofing activities. It is important to prioritize safety in all roofing and related tasks, following established safety practices. Roofing work can be hazardous, and it is crucial to adhere to necessary precautions, safety guidelines, proper roofing trade practices, and regulations set by OSHA and local building codes**.**

SLOPE

Euroshield was designed to be installed on roofs with a slope of 4/12 or greater as described in the National Building Code.

Snow guards are recommended in regions where is there is a high risk of snow accumulation.
Please view "Alpine Snow Guards Installation" on the @EuroshieldRoofing YouTube channel:
https://www.youtube.com/watch?v=SrOFa7DQxm0

ROOF DECK

The roof area shall be sheeted with plywood, OSB or equivalent; and deck thickness must satisfy the requirements of the Building Code in effect for your region. Distance between support trusses or joists should not exceed 600mm (24"). Contact our technical department for individual attention should qualify distances exceeding 600mm (24"). Sheeting shall be fastened and clipped unless otherwise approved by Euroshield.

EAVE PROTECTION

Eave protection materials must conform to National Building Code. Install eave protection membrane material along all eaves overhanging fascia 25mm (1"). End laps of material are to be 150mm (6") and sealed according to manufacturer's instructions. Use an ice/water membrane that meets or exceeds requirements set out in the building code for your region.

UNDERLAY

Select and install underlayment adhering to local building codes, manufacturers' published installation requirements, and Euroshield requirements.
• Euroshield requires the use of synthetic underlayment that complies with ASTM D226, Type I or Type II; ASTM D4869, Type I or Type II; or ASTM D6757.

VENTILATION

Euroshield recommends that all roof and attic spaces above an insulated ceiling shall be ventilated with openings to the exterior to provide unobstructed vent areas of not less than 1sq. ft/150 sq. ft. The vents shall be uniformly distributed on opposite sides of the building, in such a way that approximately 50% are near the lower part of the roof (inflow) and approximately 50% are near the ridge (outflow).

Cathedral ceilings covered with Euroshield require adequate ventilation, like any other roof, to prevent damage to the products or structure. There should be a minimum space of 2 inches between the roof sheeting and the insulation to allow for unobstructed air movement.
When using ridge vent on a steep slope (greater than 8/12), you may need to use a larger ridge cap to ensure that the cap adequately covers the vent. Please contact Euroshield at (877) 387-7667.

Vent manufacturers should be consulted on the proper use of their products.

Refer to your local Building Code for details specific to your region.

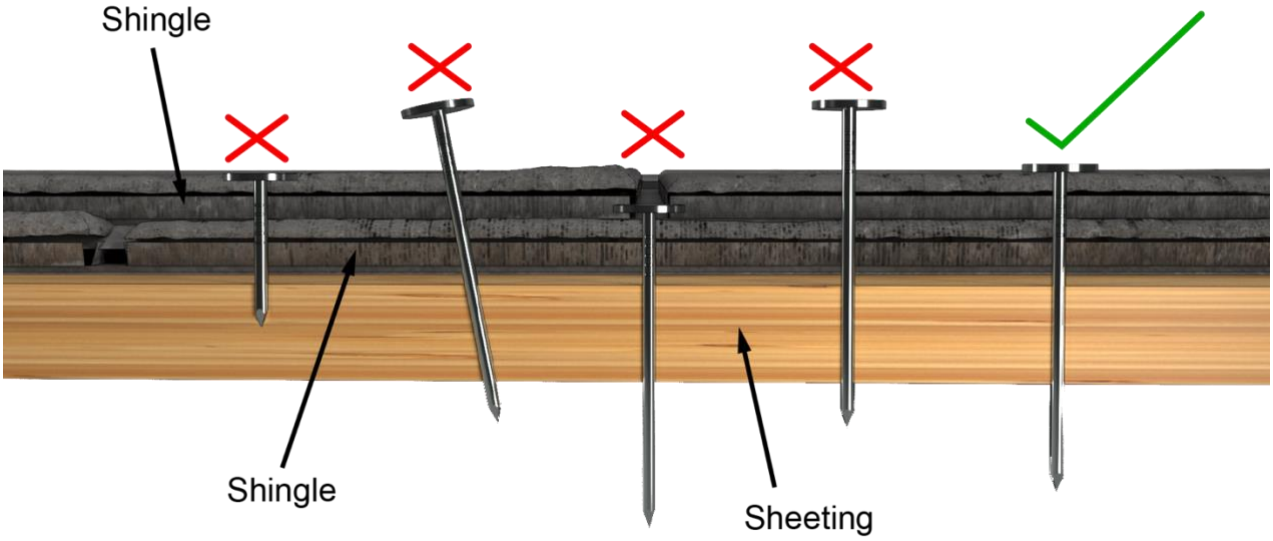
ROOF JACKS

Please view the Roof Jacks video on the @EuroshieldRoofing YouTube channel
https://www.youtube.com/shorts/XV7psQ50O14

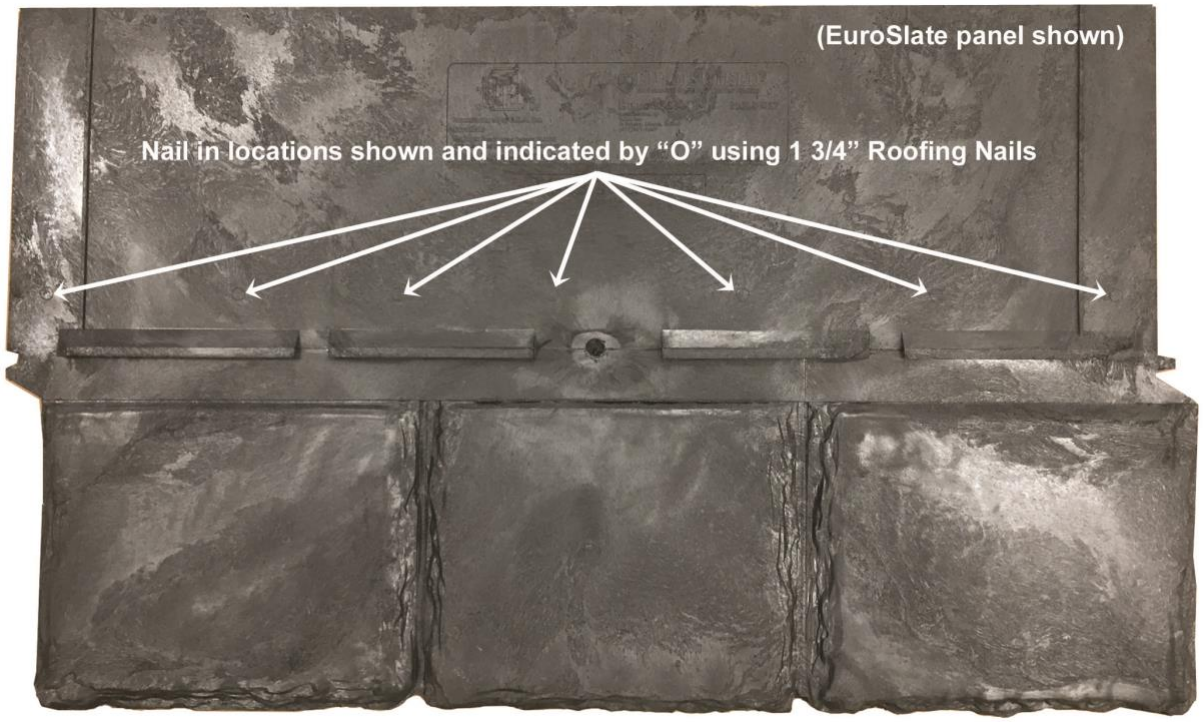
FASTENERS

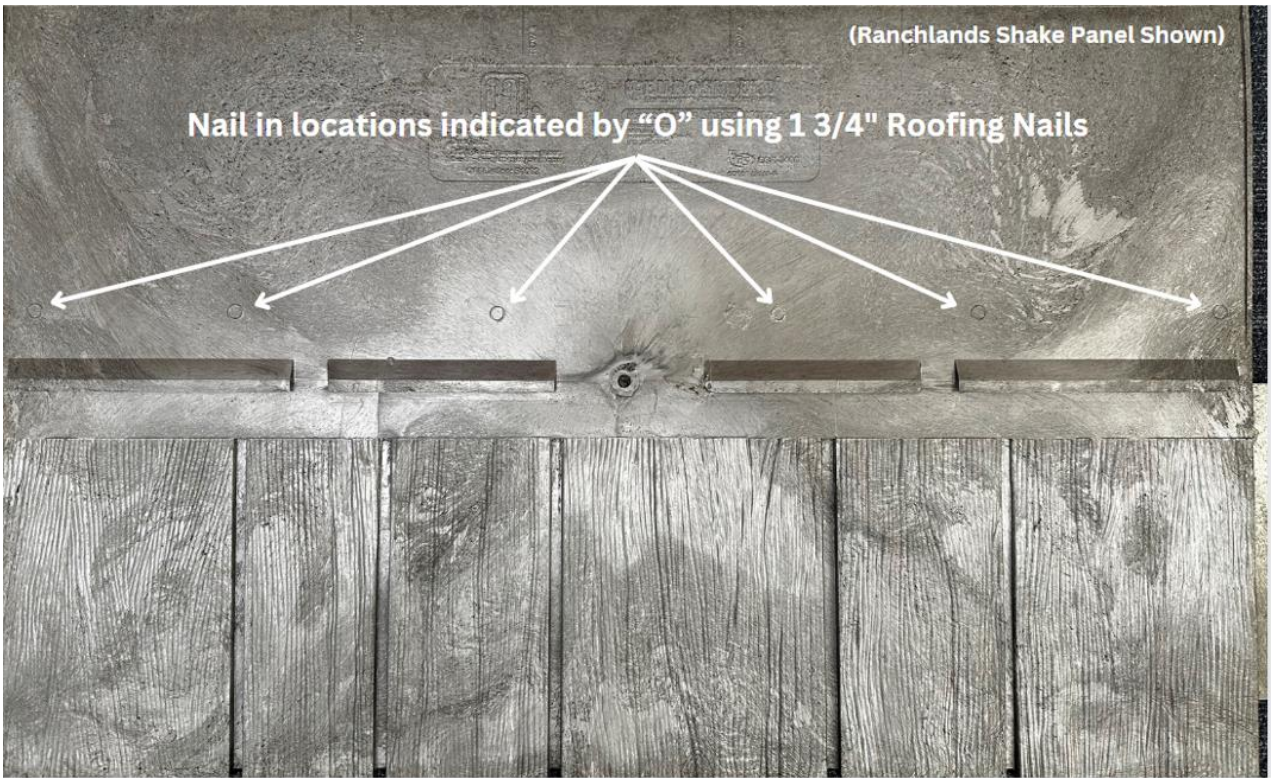
Select fasteners after consulting and adhering to both local building codes and Euroshield requirements. Euroshield requires the use of 11-gauge roofing nails or better, corrosion-resistant (electro-galvanized), with a minimum of 3/8" (9.5mm) head diameter and a minimum of 1 3/4" (44.5mm) long. Nails must penetrate 3/4" (19mm) below the roof deck. All nails must be driven straight with heads flush to the shingle surface, never cutting into the shingle.

No exposed standard roofing nails are permitted when installing Euroshield products.



ALWAYS PLACE NAILS WERE INDICATED BY AN "O"
(Do not skip any nail locations)



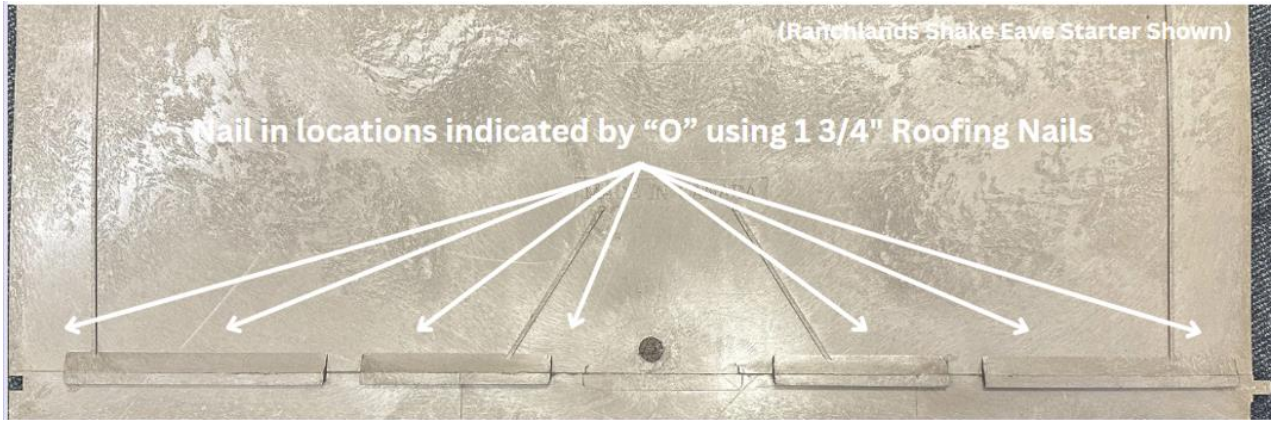


Florida approved nailing pattern with 1 ¾ ring shank nails

16 nails/shingle installation of Rundle Slate

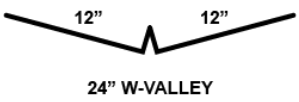
16 nails/shingle installation of Ranchlands Shake

EAVE PANEL LOC STARTER STRIP



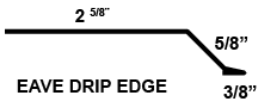
FLASHING DETAIL

FLASHING NEEDS TO BE A MINIMUM OF 26 GAUGE

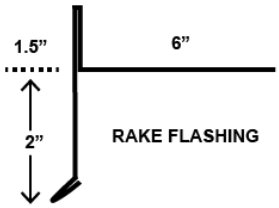


24" W-VALLEY

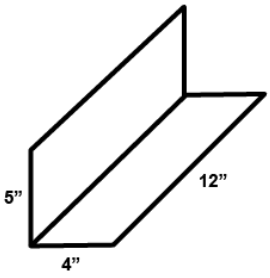
TIGHT VALLEY
(FOR HAIL AREAS)



EAVE DRIP EDGE



RAKE FLASHING



STEP FLASHING

WALL FLASHING

INSTALLATION INSTRUCTIONS

ROOF DECK

See pre-installation and preparation section regarding material requirements and applicable codes. Check all roof gables for squareness. Check eave edge for squareness. Before work begins, the work of all other trades on the roof should be complete.

EAVE PROTECTION AND UNDERLAY

See pre-installation and preparation section regarding material requirements and applicable codes. Check and repair if necessary, any damage to eave protection or underlayment, be sure the underlayment overhangs 25mm (1”), that head laps and side laps are sufficient to code and underlay extends up walls, chimneys, skylights, etc.

LOADING

Do not stack pallets on top of each other. Each bundle should lay flat on the roof. Do not place bundles so that they are curved.

Panel Layout Pattern

The layout helps minimize the effect of discernable patterns and ensures the individual keyways on each course do not closely line up with the keyways in the course below, taking care not to expose nails in the open keyways below. In no case shall a panel joint (area where two panels meet in a course) be within 5 inches of the panel joint in the course below or above. **The layout pattern is indicated by row markings (row number line indicators) at the top of each panel. Use the row number offsets as your guide for panel placement, lining up the weather strip tab on the right side of the panel with the row line indicator.**

RUNDLE SLATE AND RANCHLAND SHAKE LAYOUT PATTERN

The illustration below is an example of the recommended panel offset/layout. Please ensure that you match the layout pattern to the product you received. The style (Beaumont or Vermont) is marked on the front side of the panel. The purpose of this illustration is to demonstrate how each course should be lined up in relation to the course below to minimize the visible patterning on the roof.

When applying the next course of panels, be sure to fasten the nails at the designated points indicated by "O" so they are not visible in the keyway. It is required to keep panel-to-panel joints (where two panels meet in a course) at least five (5) inches away from any similar joint in the course below.

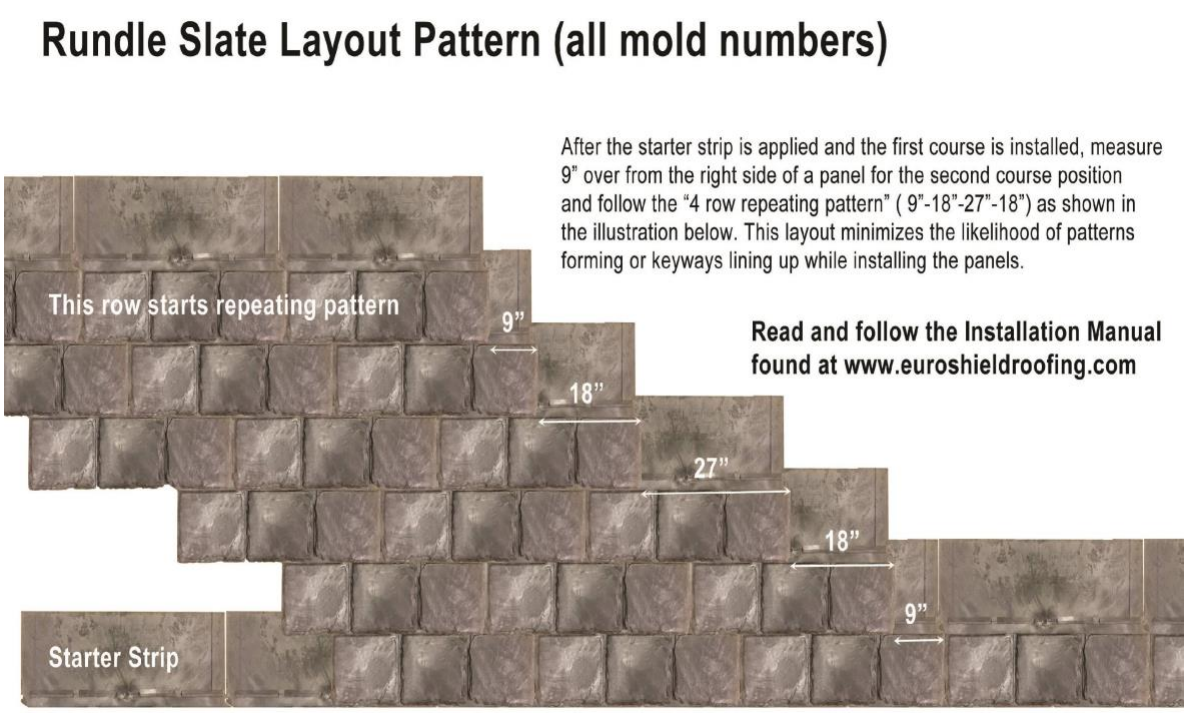
DO NOT install straight up the roof, as is often done with asphalt shingles, offsetting the same distance each course. Installing straight up the roof will create an unwanted step-like or “ladder” effect, which will be visible on the roof.

EAVE STARTER STRIP

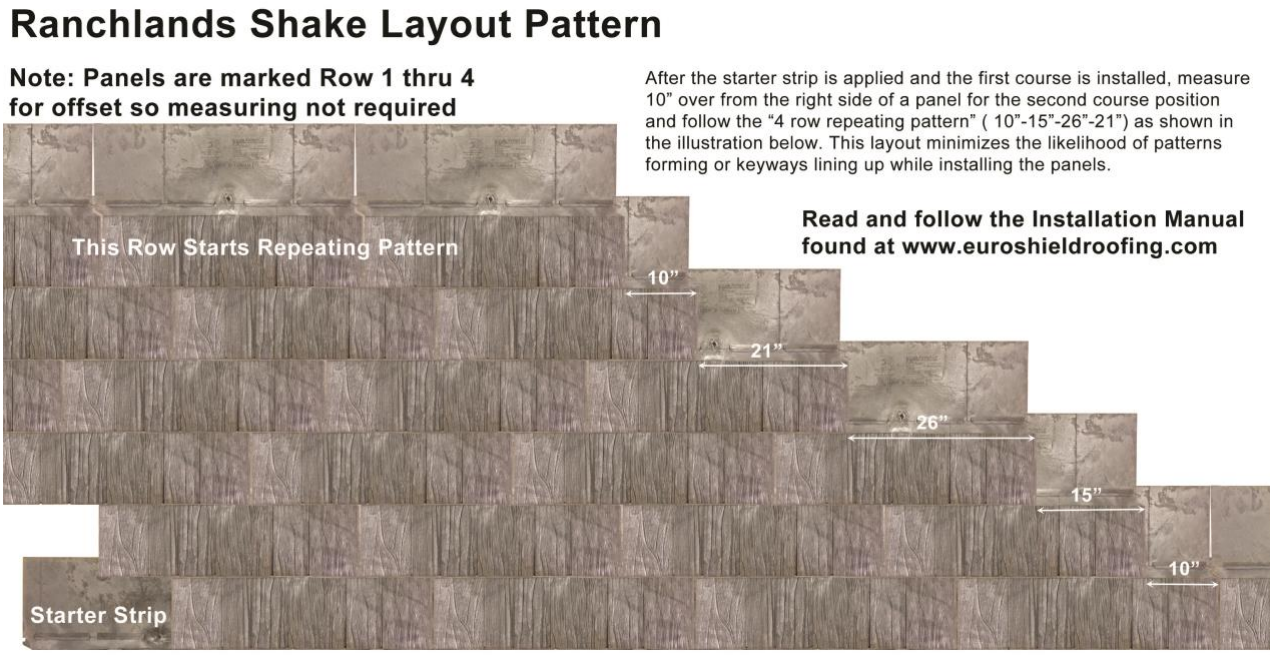
Install ***Eave Starter Strip*** maintaining a ¾” overhang along eave edge. This first piece must be a part-panel (cut eave starter panel in half) so that the starter “keyway” (space between panels/tiles) does not line up with the “keyway” of the first full course of Euroshield panel going down directly on top of the starter row. Fasten eave starter strip using eight 1 ¾” roofing nails as shown in the diagram on page 5.

The first full panel course will lock into the eave starter strip located at the eave edge. The full panel must be a minimum of 5 inches from the edge of the starter strip panel.

Rundle Slate Pattern

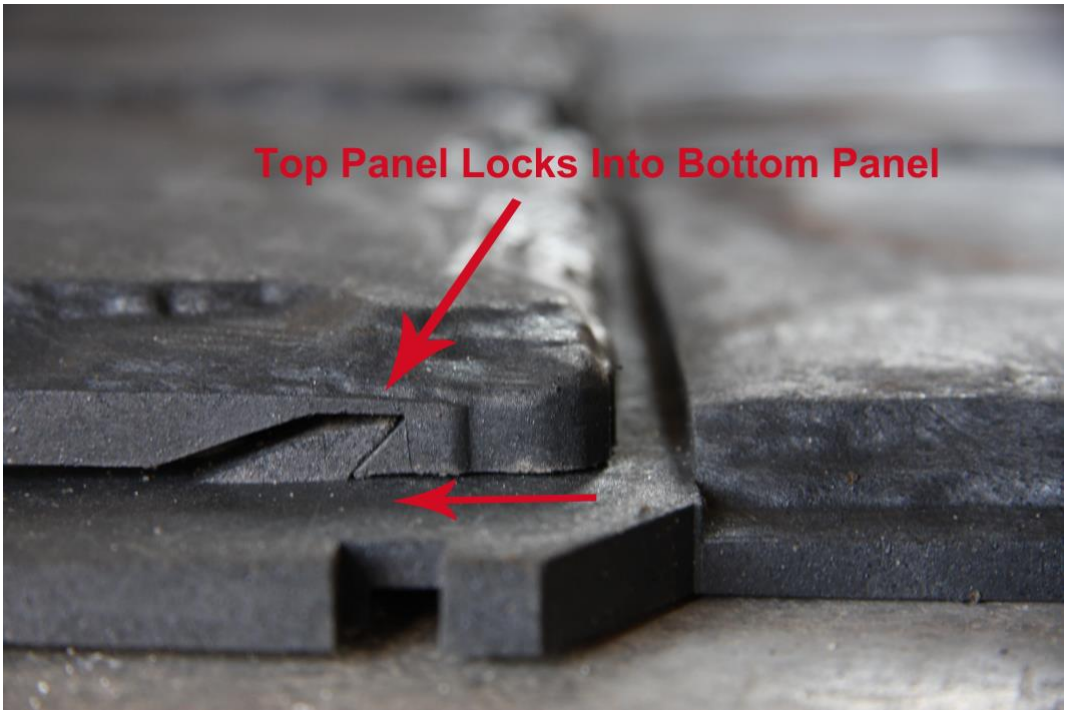


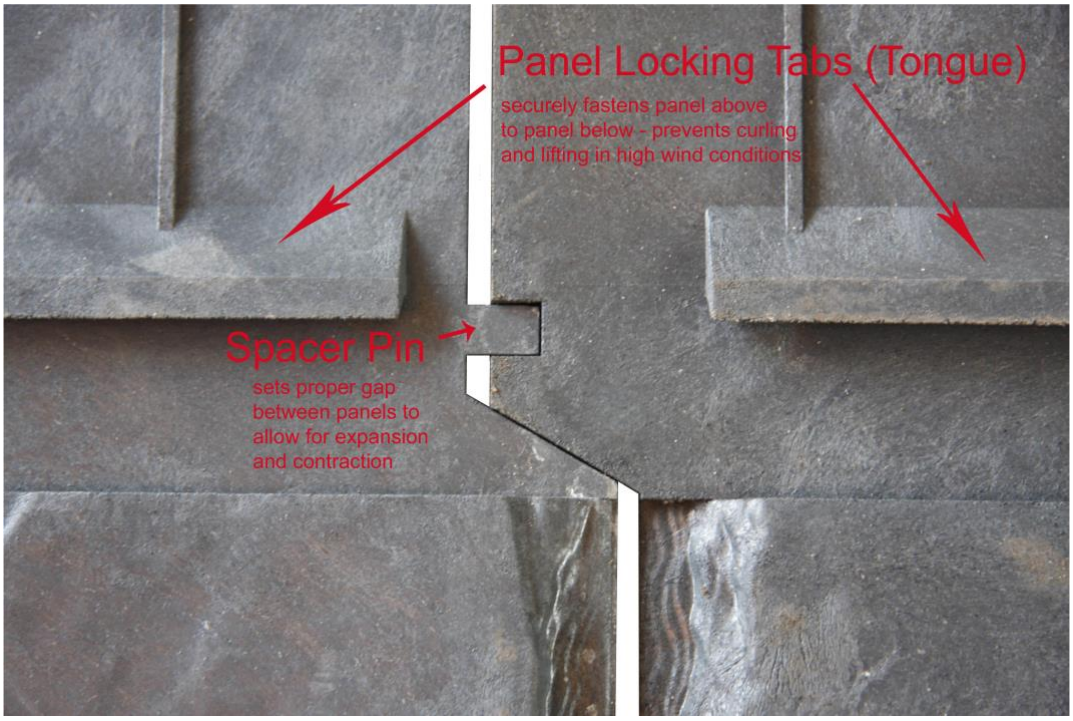
Ranchland Shake Pattern



Verify each course is tightly and fully locked in its entire length.

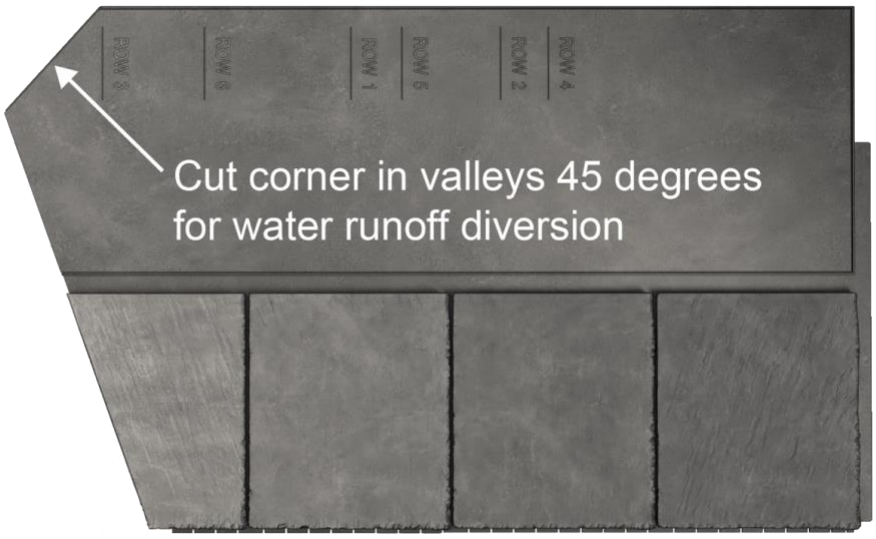
If necessary, a correction row can be made by cutting the entire lock, gluing down the shingle over the correction row, and applying a 2” 18-gauge brad nail to keep the shingle in place.
https://www.youtube.com/watch?v=etVXeM4slGY



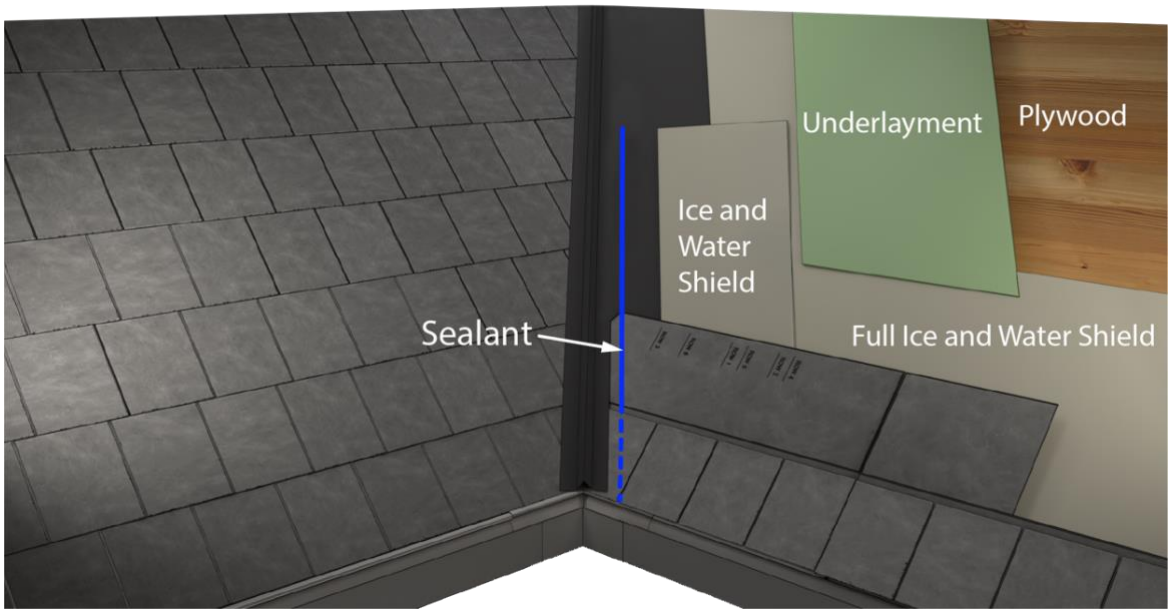


VALLEYS

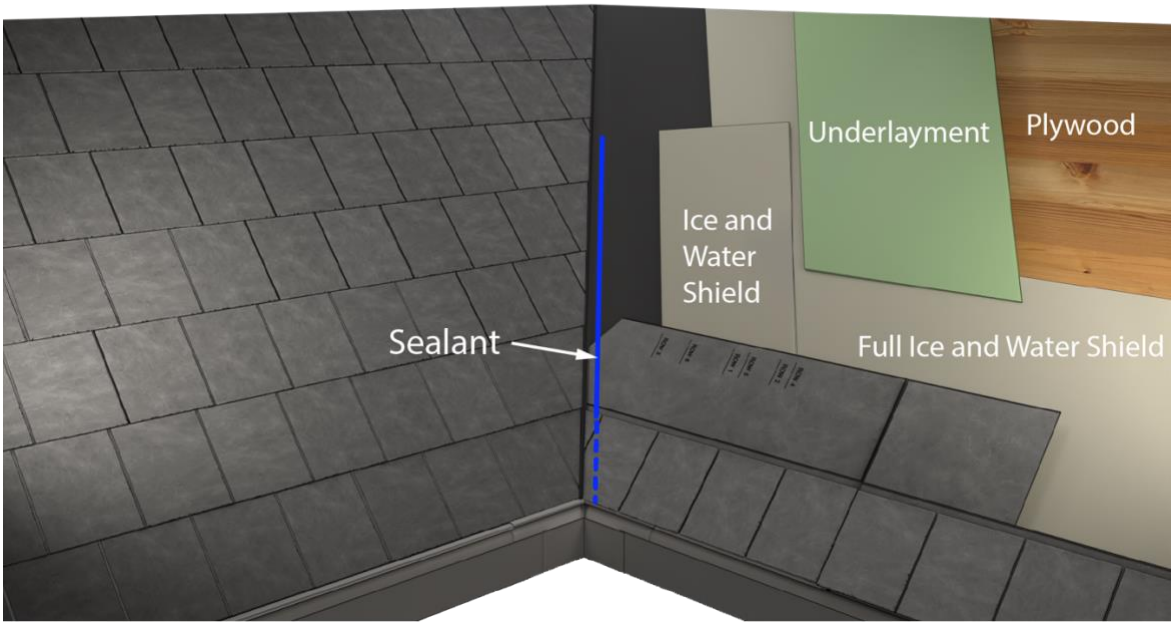
Make sure underlayment and eave protection is sealed and watertight at all valleys.
Apply one layer of ice/water to the valley with 24-inch metal valley on top. A second layer of 18" strip ice/water on both sides starting 3" from the middle of the valley.
Start the Euroshield panel 2 inches from the centre of the valley and crop the top of each panel in the same way you would crop asphalt shingles.



Open Valley –keep a space of 2 inches between the edge of the shingle and the center of the W valley on both sides. Apply sealant under shingle and over each shingle lap.



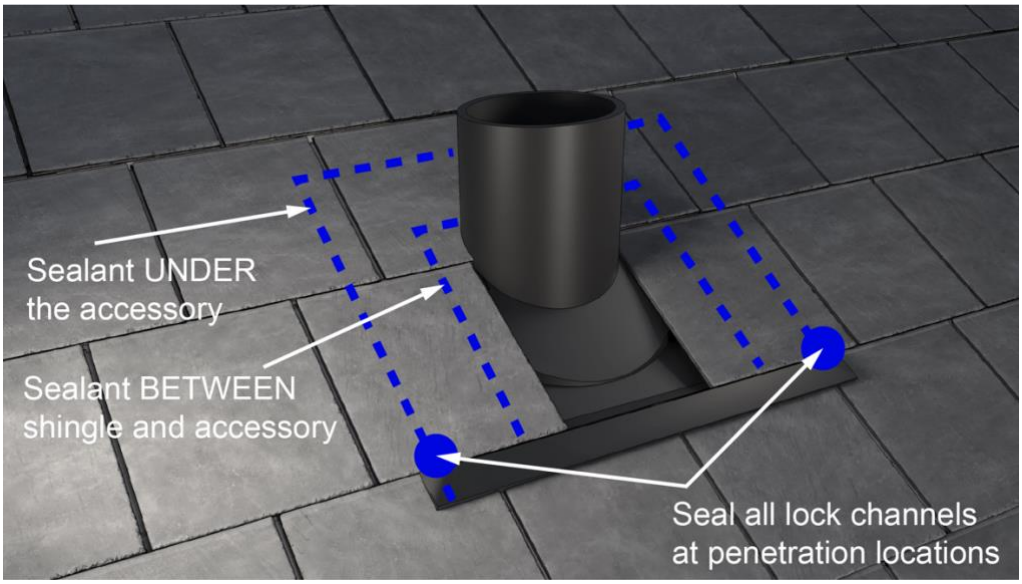
Tight Valley – for extreme hail areas, keep a space of 1/8 of an inch on both sides of the valley. Apply sealant under shingle and on each shingle lap.



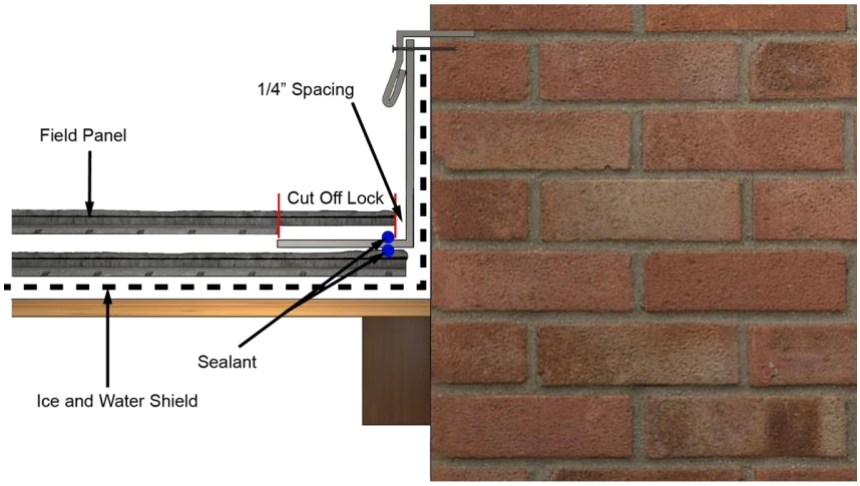
VENT PIPE, ATTIC VENT, AND GOOSE NECK INSTALLATION

IMPORTANT: SEAL ALL LOCKING CHANNELS AT PENETRATIONS

(Top and sides of pipe flashing covered by panels should be overlapped with 6 inch strip of ice and water membrane prior to installing roof panels)



FLASHING DETAIL

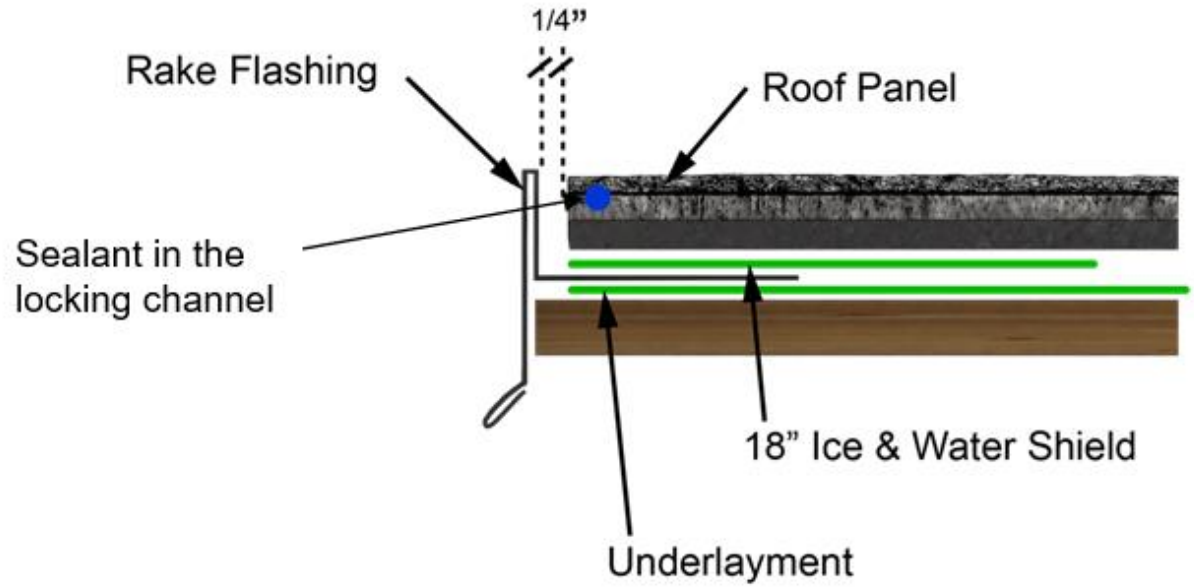


When dealing with step-flashing at vertical walls and chimneys as well as flashing around roof deck vents and skylights, it will be necessary to trim off the extended butt edge lock so the flashing will not interfere with panels lying flat. Where this is required, cut off the portion of the lock required to allow the panel to lay flat and apply Solar Seal #900 or equivalent to the underside, and if needed fasten with a 2" brad nail along the butt edge where the lock has been trimmed off.

It is very important to fill the end of the locking channel with sealant at the end of each course to prevent water from traveling under the penetration and creating a leak.

GABLE OPTIONS

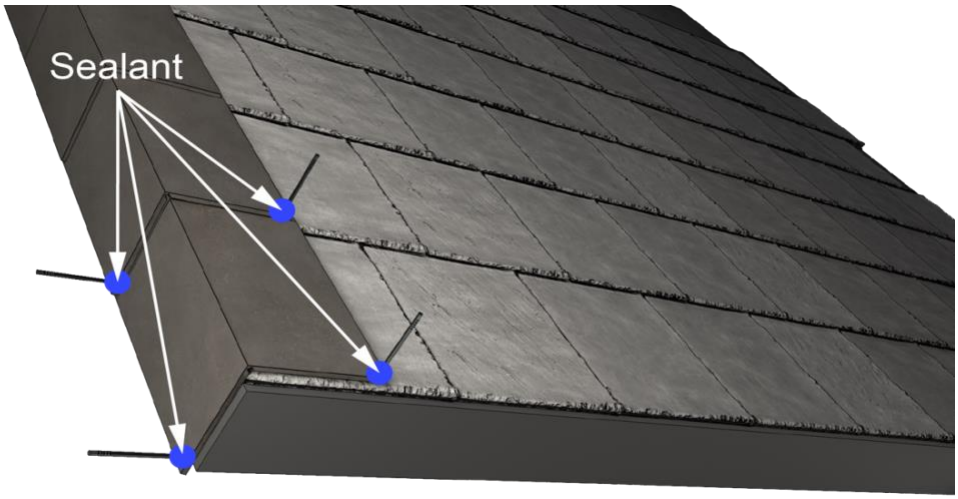
Option #1



Install a raised metal flashing detail designed to hide the cut edge and provide uplift/blow-off protection in high wind regions.
APPLY SEALENT AT GABLE CUT LOCKING CHANEL

Option #2

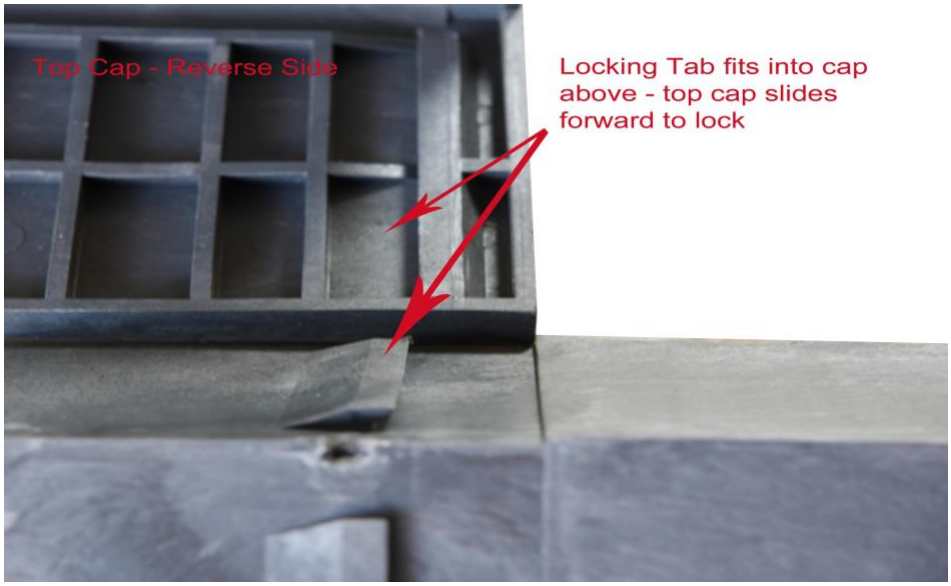
Overhang underlayment 2” down over the facia. Install field panels flush to the gable edge, then install Rundle Slate or Ranchland Shake Caps along the gable edge for a decorative finish. For additional blow-off protection in windy areas, we recommend the use of Solar Seal #900 adhesive and 2” galvanized or stainless 18-gauge brad nails at the butt edge corner of each cap along the rake edge, penetrating the surface of the deck and the fascia.
Do not use standard roofing nails with exposed heads.

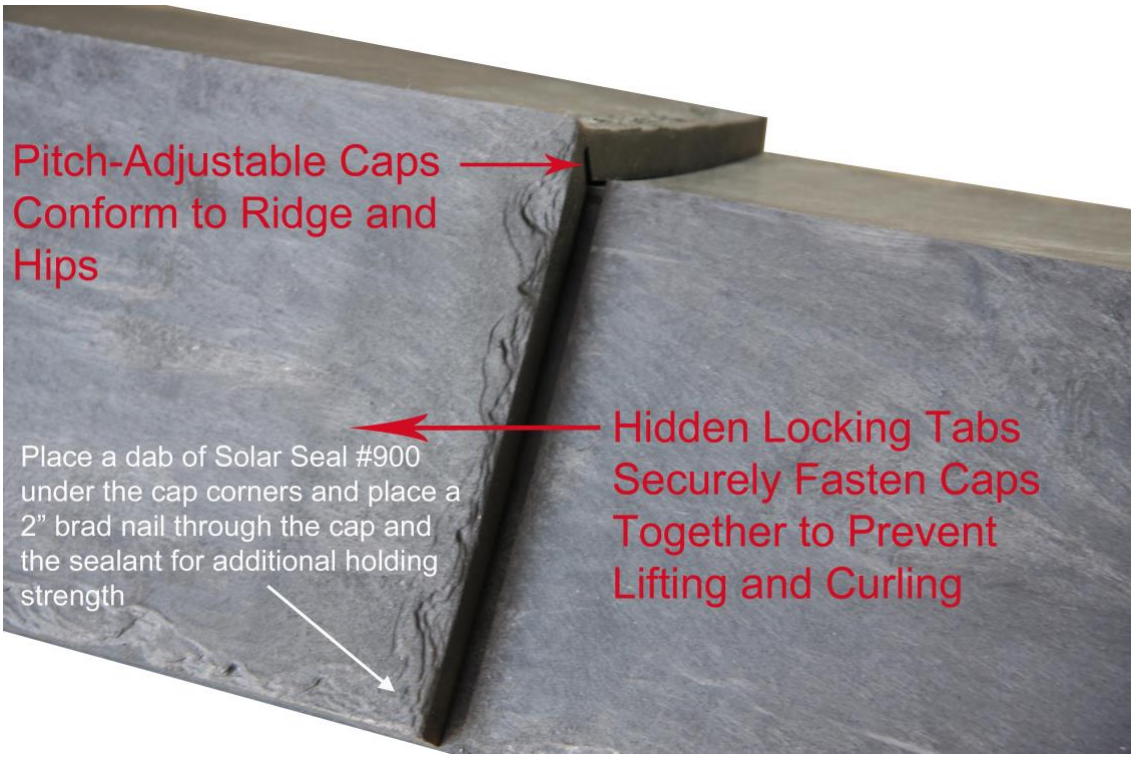


HIP AND RIDGE CAP

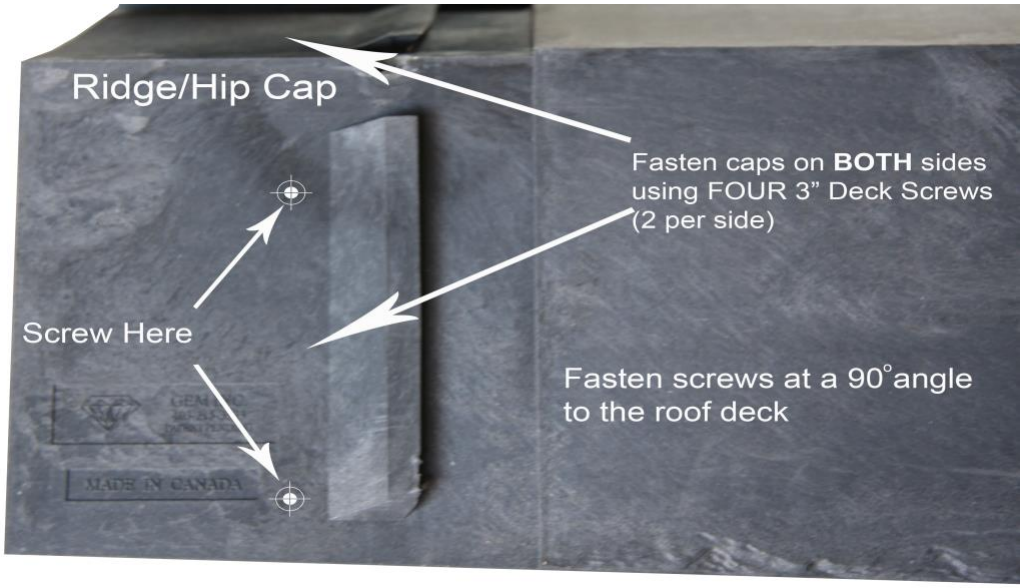
Caps can be installed over ridge venting with a longer fastener of 3". Please consult the ridge vent manufacturer for details on application. Note that the caps cover approximately 4.5" on each side.

Each cap is fastened using four (4) 2" galvanized deck screws, two (2) on either side. The last cap must be "face fastened" using a dab of Solar Seal #900 (or equivalent) under the cap at the fastening point and a 2 inch brad nail fastened through the cap and sealant. Make sure the cap is warm enough before adjusting the angle of the cap to the pitch of the hip or ridge. Do not step or apply heavy weight to the cap.





Each cap is fastened using four (4) 3” galvanized deck screws, 2 on either side above the Tongue. The first cap is additionally fastened with two 2” brad nails, one on either side of the cap, near the butt edge as shown in the illustration. Place a dab of Solar Seal #900® under the cap at the fastening point prior to placing the brad nail.



SOLAR PANEL

Typically, the mounting plate should be mounted between the butt edges on a course laying on the flat portion of the surface (10" reveal on Rundle Slate and Ranchland Shake). When lag screwing into the deck/truss, after you drill the holes, make sure to create a gasket seal on the bottom of the plate using Solar Seal 900 (recommended) sealant and coat the screws mounting the plate before fastening to the roof. Do not over tighten such that you collapse the panel around the plate.

MAINTENANCE

A roof needs to be inspected for debris and to ensure the ventilation is clean at least once per year.
The Euroshield System requires very little ongoing maintenance. Renew Solar Seal #900 sealant (or equivalent) on details and exposed fastener heads from time to time as required. Keep gutters, troughs, downpipes, and drains free of debris, so that drainage water flows away unrestricted. Should alterations be required involving the roof as time goes on, please consult our warranty document, or contact our technical department for assistance. Repairs performed with non–Euroshield system components or incompatible materials will void the Euroshield warranty.

If you have any questions regarding the layout, or any other installation-related questions, please call our North American Toll-Free Number (877) 387-7667 <u>prior to beginning installation.</u>