



Recommended installation procedures for Ranchlands Shake and Rundle Slate

Do not begin installation until you have read and fully understand the procedures outlined in this Guide. Take special note of the Layout Patterns at the back of this guide and follow the layout for your mold number (marked on the product).

Note: Snow can accumulate and slide off Euroshield roofing. Installers and homeowners should assess the need for snow retention systems and apply accordingly.

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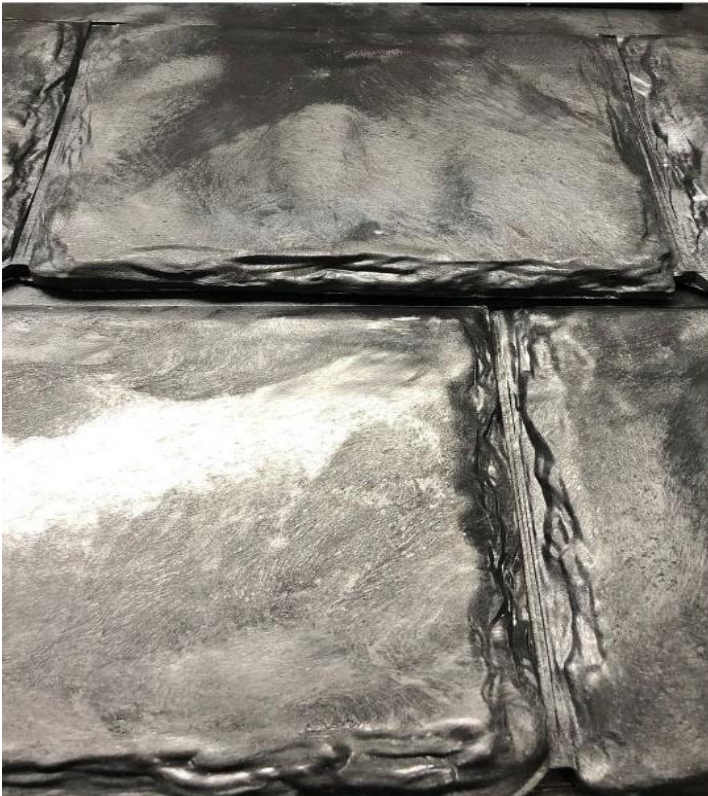
G.E.M. Inc. is the manufacturer & distributor of EuroShield® rubber roof roofing systems manufactured in Calgary, Alberta, Canada.

CCMC (Canadian Construction Materials Council) Reg. Number 13118-R
ICC ESR #3488 (Rundle Slate and Ranchlands Shake)

Ver.280120

TABLE OF CONTENTS

- Introduction - corporate profile
- Feature / benefit page
- Components - spec data sheets
- Packaging, handling
- Pre-installation - system introduction
- Roof deck, structure, load, eave protection
- ice dam, re-roofing, slope
- underlay
- ventilation
- fastening, impact, shading, fade
- Installation - deck, eave protection, loading, valleys, protrusions, openings
- Starter tile, field tile
- Ridge, gable, hip caps, gable cookie
- detail finishing, maintenance, flashing profiles



Rundle Slate



Ranchlands Shake

INTRODUCTION

Corporate profile

Calgary based Global Environmental Manufacturing Inc. (GEM), founded by Henry Kamphuis in 1999, has developed innovative technology to produce competitively priced, premium quality building products using up to 95% recycled materials (e.g. recycled tires). GEM's unique technology, insulation properties and product design is capable of producing significant energy benefits and savings. The product is competitively priced while being ultra-environmentally friendly. GEM's proprietary, unique Reinforced Rubber Based Compound including carbon black forms the basis of all of GEM's products. Aside from adding durability and strength, carbon black is widely considered the best U.V. inhibitor in the world.

GEM's EuroShield® Roof is an interlocking, pitched roofing system using rubber-based panels. Its unique selling features include unsurpassed durability and protection against all the elements and a simple installation resulting in a significant reduction in labour costs in comparison to other premium products. GEM's roofing system also provides an enhanced aesthetic appeal while providing superior lasting protection.

Features and benefits

- Long lasting, durable
- Unique interlocking “Tongue and Groove” panel system resists uplift and curling
- Aesthetically pleasing
- Flexible and versatile
- Weather resistant
- Environmentally friendly
- Easy to install
- Hail resistant
- Lightweight (3.1 lbs/Ranchlands Shake - 3.4 lbs/Rundle Slate per sq/ft)
- Affordable
- Discount on homeowners policy
- Maintenance free
- Keeps your house cooler in the summer and warmer in the winter
- Fire resistant
- Increases the value of your home

EuroShield® is the most advanced roofing system in the market today.

Components

Spec data sheet

Ranchlands Shake/Rundle Slate

Weight/pc 7.7 (Shake)/8.5 (Slate) lbs. approx.
Pieces/sq 40 approx.
Lbs/sq. 309/340 Shake/Slate approx.
Length 36" approx.
Width 22" approx.
Exposure 2.5 sq. ft.

Note: pricing is based on 40 pieces per square.

Ridge cap

Weight 2.2 lbs approx.
Length 26" approx.
Width 2 angles each 5.5" approx.
Exposure 12" approx.

Hip cap

Weight/pc 2.2 lbs approx.
Length 26" approx.
Width 2 angles each 5.5" approx.
Exposure 12" approx.

NEW – Starter Strip

Weight/pc 3.7 lbs approx.
Length 36" approx.
Width 12.75" approx.
Coverage/Bundle of 10 pcs = 30 lineal feet

Packaging and handling

Ranchlands Shake/Rundle Slate

Panel

8 pcs per bundle
20/20 bundles per pallet (shake/slate)
160/160 panels per pallet (shake/slate)
4/4 square per pallet (shake/slate)
1282/1410 lbs per pallet (shake/slate) (approx.)
20~32 pallets per truck*
80~128 square per truck* (shake/slate)

Ridge

10 pcs per bundle
42 bundles per pallet
420 pcs per pallet
1007 lbs per pallet (approx.)

Hip

10 pcs per bundle
42 bundles per pallet
420 pcs per pallet
1007 lbs per pallet (approx.)

Note: Hip and Ridge can be ordered per job need by the bundle.
* will vary with size and weight capacity of truck.

PRE-INSTALLATION

System Introduction

This manual contains the acceptable requirements for GEM's EuroShield® Roofing System. Installation specifications and details are designed for slopes 4/12 or steeper. Low slope applications less than 4/12 may warrant extra precautions, please contact GEM to qualify your particular circumstances and conditions.

This installation manual establishes a standard for the EuroShield® System that meets or exceeds the requirements of CMHC and National Building Standards.

Installers must familiarize themselves with the contents of this installation manual in order that the EuroShield® System is installed to its uncompromised standard.

GEM reserves the right to limit or cancel the sale of EuroShield® products should installation of the products not meet or exceed our standards.

This installation manual makes reference to installing product on plywood/OSB surfaces. Please contact G.E.M. Inc toll free at (877) 387-7667 regarding installation on any other deck surface.

These recommended installation procedures may be amended as required from time to time.

Note: As long as the minimum standards of installation are adhered to in accordance with this installation manual, installation practices and procedures may be modified; however, installers must comply with local building code standards in keeping with the needs and requirements for their area and application.

ROOF DECK

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

STRUCTURE AND LOAD REQUIREMENTS

There are no special structural changes or enhancements to make or special load requirements necessary for GEM's EuroShield® Roof. The roof structure and load requirements must meet the requirements of the National Building Code (or corresponding province/state building code where applicable).

EAVE PROTECTION

Eave protection materials must conform to National Building Code. Install 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 the region.

Roof structures will sometimes fail due to the formation of ice dams. Ice dams are formed by the continuous melting and freezing of snow and the backing up of frozen slush from the gutters, due to heat escaping from the house. The melted water flows under the snow and freezes as it reaches the unheated soffit, thus creating the ice dam. When this occurs, water can be forced under the panels and into the attic, causing damages to the home's ceilings, walls, insulation, gutters, eaves and roof.

To reduce ice dam formation and prevent ice dam problems:

1. Keep the attic space cold by insulating it from the warm house interior, thus reducing or eliminating snow melt.
2. Use high heel trusses, insulate to the outside of the plates and install cardboard baffles to ensure ventilation at the eaves.
3. Ensure that the outer edges of the gutters or eavestroughs are lower than the slope line to allow snow and ice to slide clear. Also ensure gutters are free of debris.

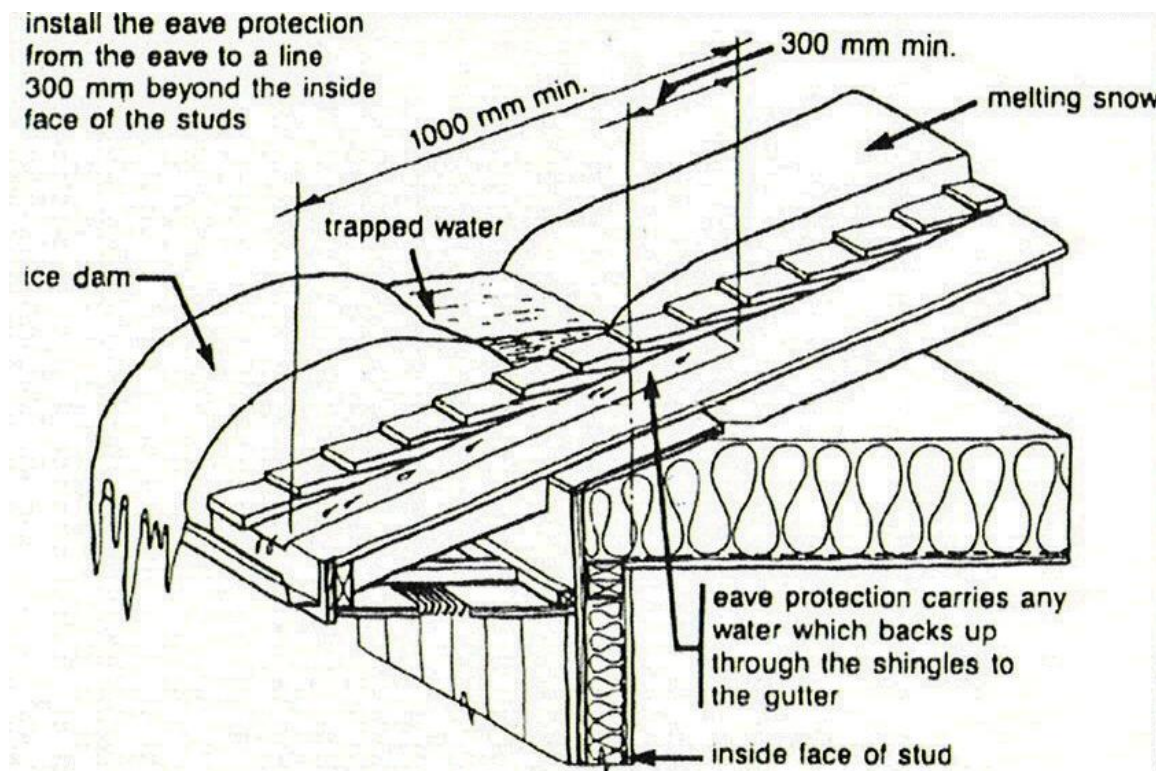
Reference: Canadian Mortgage and Housing Corporation, Roofing and Flashing Problems, publication NHA 6076.

In areas where snowfall occurs, snow guards may be required to help prevent slides from the roof surface to the ground below. If snow guards are to be used with the Euroshield® product, they should be applied at the time of installation. It is the responsibility of the installation contractor, in conjunction with the homeowner, to determine the suitability of installing snow guards on the roof, unless specified in the local building code. GEM Inc. assumes no responsibility for the supply or install of these devices on the roof.

In high snow areas with a ground snow load greater than 3.5 kPa as identified in Chapter 1 of the supplement to the National Building Code of Canada, the eaves protection must extend from the edge of the roof to a minimum distance of 1700mm (67") up the roof to a line not less than 1100mm (43 ½") inside the inner beam.

Fasten and adhere the protection material to the sheathing sufficiently to prevent wind up lift and damage with hot galvanized or coated fasteners.

Valleys utilize the same materials as eaves protection. Material is applied parallel to valley centerline with half roll width on each side of the centreline and overhanging the fascia and eaves 25mm (1"). In areas with high snowfall combined with freeze thaw conditions use double roll width extending 860mm (34") to both sides including 100mm (4") lap at centreline.



RE-ROOFING

As Euroshield® is a permanent roofing product; it is imperative that the existing roof and the underlying roof structure are inspected to determine whether the substrate has not rotted and is of enduring quality. EuroShield® should not be installed over an existing roof covering; asphalt shingles, shakes or other. Remove existing roof covering to ensure trusses, sheathing fascia and other components including masonry, plumbing and mechanical are in good repair to support the EuroShield® System throughout its durable lifetime. In any case, the existing roof covering (asphalt, cedar, pine or other) must be removed and repairs or replacement of deteriorated components undertaken prior to installation of a Euroshield® roof. Please contact G.E.M. Inc. regarding any planned deviation from the above noted guidelines.

SLOPE

EuroShield® was designed to be installed on roofs with a slope of 4/12 or greater as described in the National Building Code. For low slope application (less than 4/12), contact our technical department at (877) 387-7667 prior to the installation of Euroshield® products. The installation of Euroshield® roofing products is not recommended on sloped roofing with a pitch of 2/12 or less.

Vertical wall applications are made possible through GEM's unique interlocking capability allowing for design considerations on different surfaces and mansards. The ruffed stone look of Rundle Slate and the natural wood shake look of Ranchlands Shake compliments any slope greater than 3/12.

UNDERLAY

In standard applications, whether installing on new sheathing or on existing sheathing, install ice dam protection and an approved synthetic underlayment, as described in the National Building Code (or corresponding province/state code where applicable). Note that though your building codes may not require underlay on the entire roof, GEM's warranty does require it.

There are many reasons why the use of underlayment prior to applying Euroshield® makes good roofing sense.

- Underlayment protects the wooden deck from the moisture penetration until the EuroShield® is applied, thus greatly reducing problems to structure.
- Installing underlayment helps to minimize “picture framing”, i.e. the visible outline of deck panels cause by irregularities in roof construction.
- The water resistance of underlayment provides secondary protection by helping to shield the deck from wind-driven rain.
- Underlayment offers protection to the EuroShield® from the resins that can be released by the wood decking.
- The underlayment material should meet or exceed the following industry standards:
 - a) ASTM D226 Type I
 - b) ASTM D226 Type II

The proper application techniques recommended by the manufacturer should be followed to ensure optimum performance of underlayment. The underlayment above eaves protection should be installed in minimum 900mm (36”) widths, parallel to eaves lines with a minimum 100mm (4”) head lap and 150mm (6”) side lap. Fasten underlayment to roof deck with galvanized nails sufficient to prevent wind lift and damage prior to EuroShield® installation. Extend underlayment a minimum 150mm (6”) up all walls, chimneys, skylights, etc. and seal corners with GEM Sealant (or equivalent). Underlayment must overlap valley protection 18” past centreline. Any underlayment damage must be repaired or replaced prior to EuroShield® application. For low slope underlay requirements see manual sections on Slope and Eave Protection.

VENTILATION

The proper ventilation of the attic area is an essential factor in attaining the maximum service life available from the building materials used in the roof assembly, in addition to improving heating and cooling costs. Overlooking this consideration may result in premature failure of the roofing system due to:

- 1) Accelerated aging of the EuroShield® System.
- 2) Rotting of the wood structure, wet insulation due to condensation.
- 3) Buckling of the roof deck.

Failure to adequately ventilate the attic space to meet minimum local building code standards may result in premature product failure and void your Euroshield® product warranty.

In the wake of technical advances and the proliferation of energy conservation measures, the ‘trapping’ of air and moisture in the attic is problematic. Improved insulation and better weather stripping are the two major reasons for this occurrence.

To correct this problem one needs to provide proper ventilation to ensure free and unobstructed air movement beneath the roof surface.

The National Building Code (Canada) requires 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 1 sq.ft./300 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).

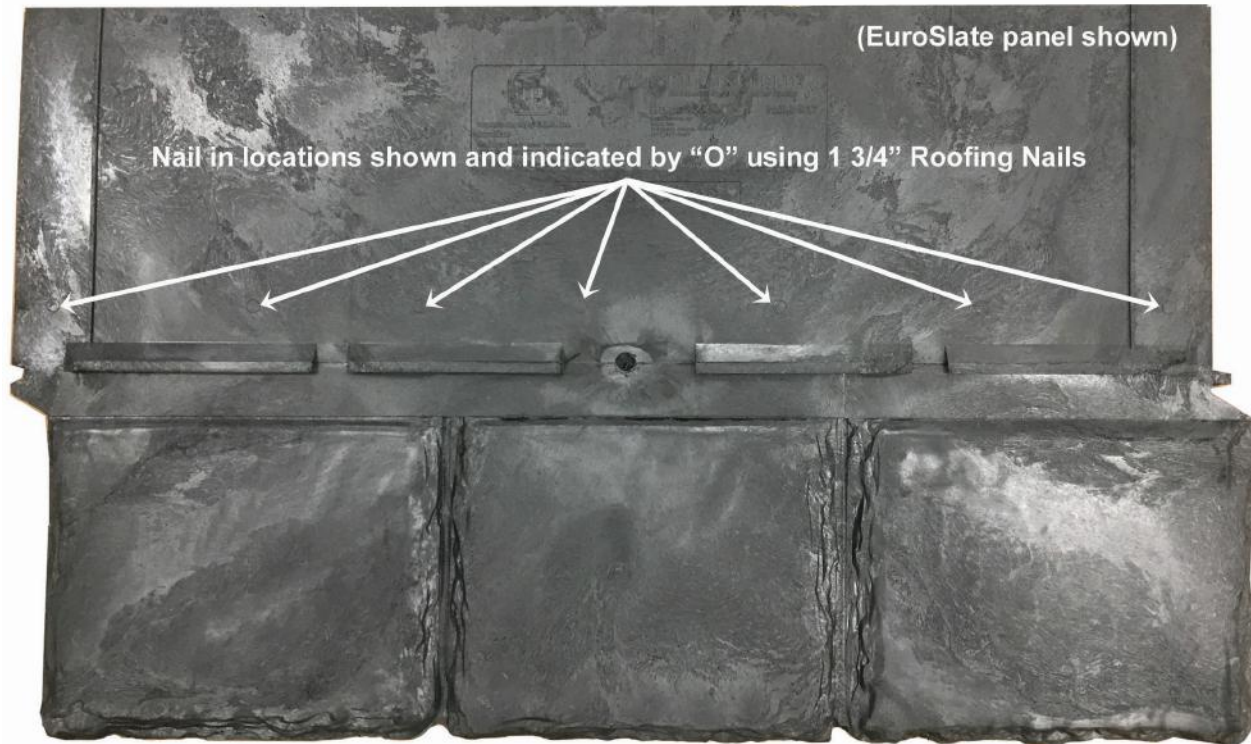
Cathedral ceilings covered with the EuroShield® System require adequate ventilation like any other roof to prevent damage to the products or structure. There should be a minimum space of 2 inches between the roof sheathing and the insulation to allow for the unobstructed air movement.

When vapour barrier is used, cathedral ceilings require a minimum total net area for the inlet and outlet vents equivalent to 1/300 of the total ceiling area. Cross ventilation should be ensured by locating half the required vent area at the eaves and the other half at the ridge.

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

FASTENING

THE RUNDLE SLATE PANEL IS ATTACHED USING SEVEN (7) 1 3/4"galvanized nails approximately 2" above the tongue lock bottom edge (where indicated by "O" nailing target points marked on the panel). THE RANCLANDS SHAKE PANEL IS ATTACHED USING SIX (6) 1 3/4" galvanized nails approximately 2" above the tongue lock bottom edge (where indicated by "O" nailing target points marked on the panel).



No exposed nails are permitted when installing Euroshield® products.

Each starter strip is fastened using seven (7) 1 3/4" galvanized roofing nails in the same manner above the tongue.

Gable end (rake) which can be installed using the ridge cap, is fastened using two 3" galvanized deck screws on the top surface and two one and a half inch screws on the gable end. These screws are to be installed right above the tongue on the ridge cap.

Each hip cap is fastened using four (4) 2.5" galvanized deck screws, two (2) on each side, placed so that the next hip cap covers the exposed fastener heads.

Each ridge cap is fastened using four (4) 2.5" galvanized deck screws, two (2) on each side and 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® (or equivalent sealant) under the cap at the fastening point prior to placing the brad nail.

IMPACT AND HAIL RESISTANCE – UL2218 CLASS 4 LISTED IMPACT RATED

EuroShield® demonstrates excellent resistance to mechanical impact and hail. The rugged and elastic nature of the rubber base material should weather the heaviest of storms.

SHADING

As a roof is viewed from different angles, and/or different lighting conditions, certain areas may appear darker or lighter. This inconsistency in colour has been designed to achieve the authentic look of slate.

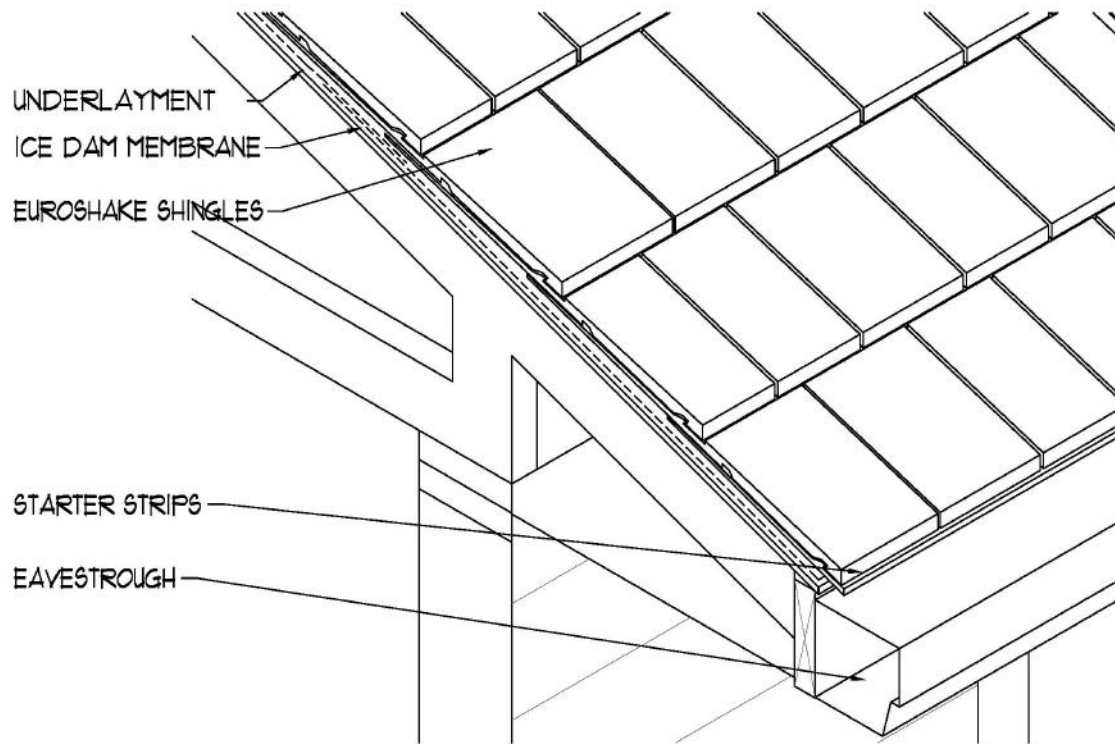
INSTALLATION INSTRUCTIONS

ROOF DECK

See pre-installation and preparation section regarding material requirements and codes applicable. 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 codes applicable. 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

Always load EuroShield® products toward the peak in such a manner as to not overload any one section of the roof, keeping in mind that the application will start on the left side, and bottom of the roof.

Distribute materials to allow for close proximity during installation, allowing extra room on the left side to start each course.

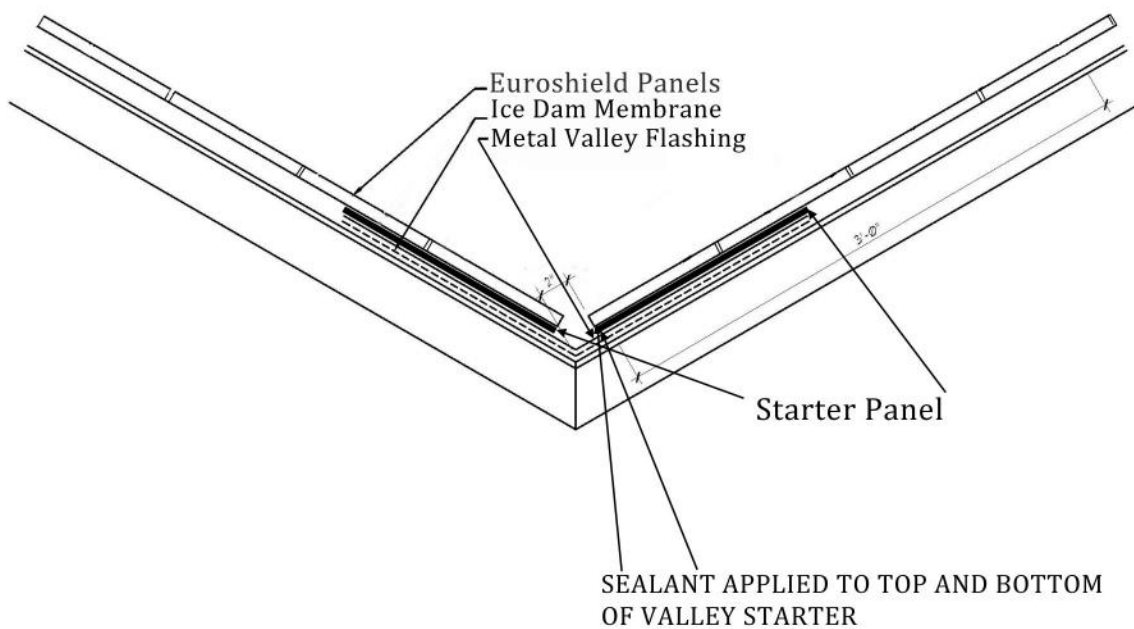
VALLEYS, PROTRUSIONS AND OPENINGS

Take extra care to make sure underlayment and eave protection is sealed and watertight at all valleys, chimneys, protrusions and openings.

Apply one layer of peel and stick to the valley with 24 to 36 inch metal valley on top.

Apply one layer of peel and stick membrane up the valley starting at the 3 inch mark from the centre of the valley and going out 39 inches on each side.

Start the Rundle Slate or Ranchlands Shake panel 2 inches from the centre of the valley and crop the top of each piece similar to asphalt shingles.



If a chimney is more than 750mm (30”) wide, building code demands a saddle be built for better drainage. A saddle need not be installed if a sheet metal flashing is used that extends up the chimney to a height equal to not less that one sixth the width of the chimney, but not less than 150mm (6”), and up the slope to a point equal in height to the flashing on the chimney, but not less than 1.5 times the slate exposure. Provincial building code demands flashing installation on all roof/wall intersections, thickness described previously.

Circular chimneys are flashed using a metal flashing (provided by mechanical contractor). Flange of flashing is to be woven into EuroShield® courses at top of the slope and sealed around complete flange with GEM Sealant (or equivalent).

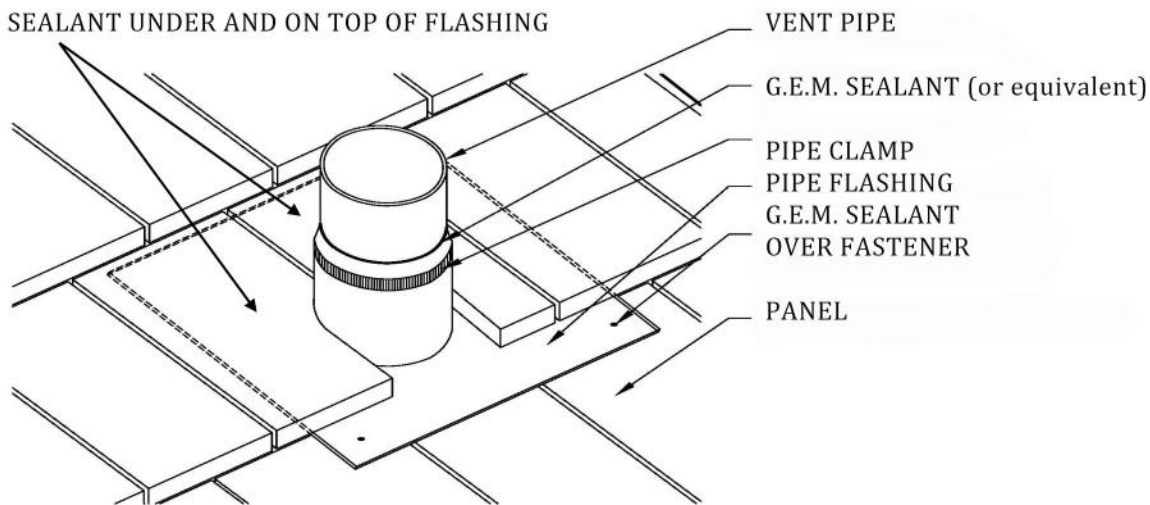
Plumbing vent stacks are flashed using a metal vent pipe flashing, metal or a flexible rubber flashing (normally supplied by mechanical contractor,) and woven into the EuroShield® courses at the top of the slope.

Note – if mechanical contractor is flashing, be sure they are on site before commencing EuroShield® application.

Ensure all other protrusions are properly flashed and woven into the Euroshield® courses and sealed in a lightweight manner. For unique circumstances contact G.E.M.’s technical department.

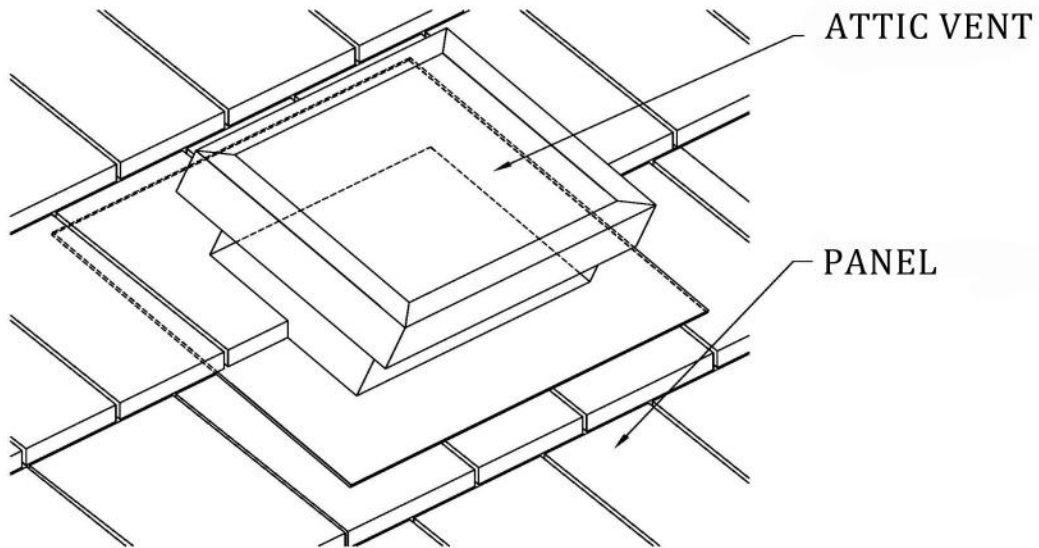
VENT PIPE INSTALLATION

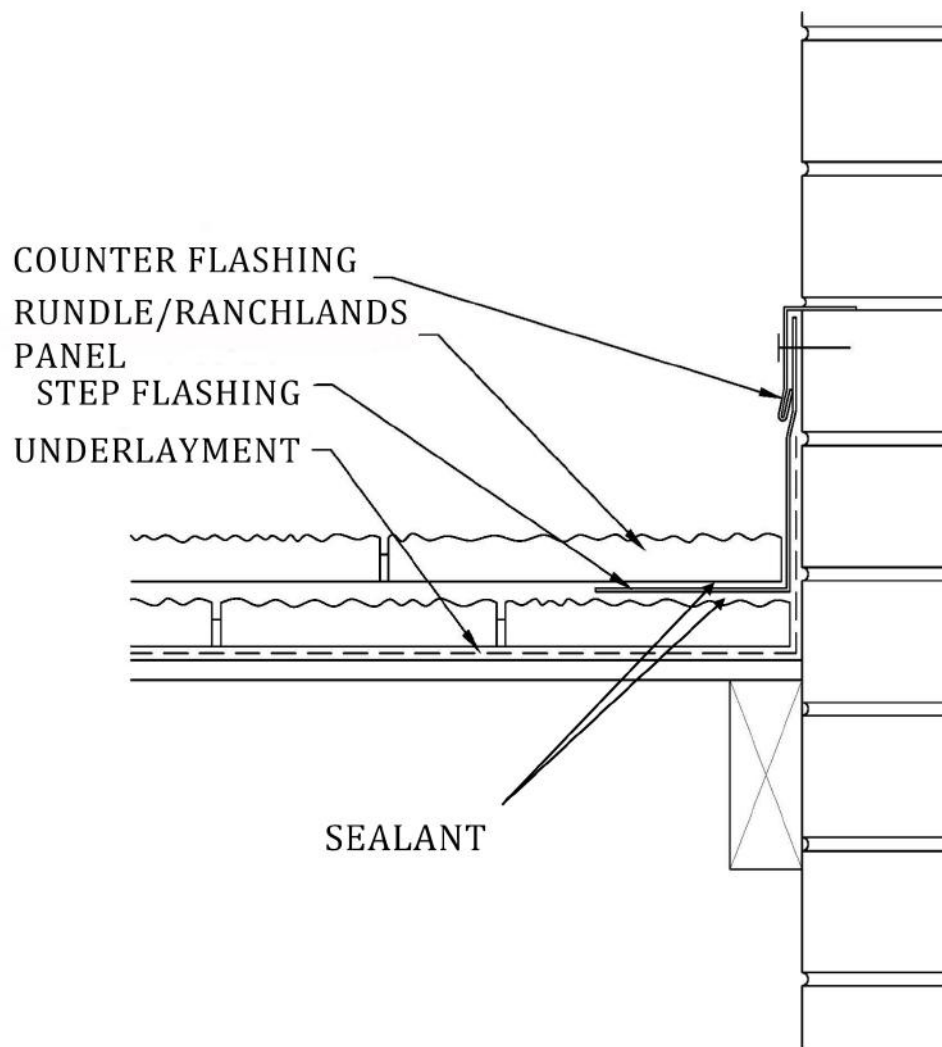
(Top and sides of pipe flashing covered by panels should be overlapped with 6” strip of ice and water membrane prior to installing roof panels)



ATTIC VENT INSTALLATION

(Top and sides of attic vent flashing portion covered by panels should be overlapped with 6" strip of ice and water membrane prior to installing roof panels)



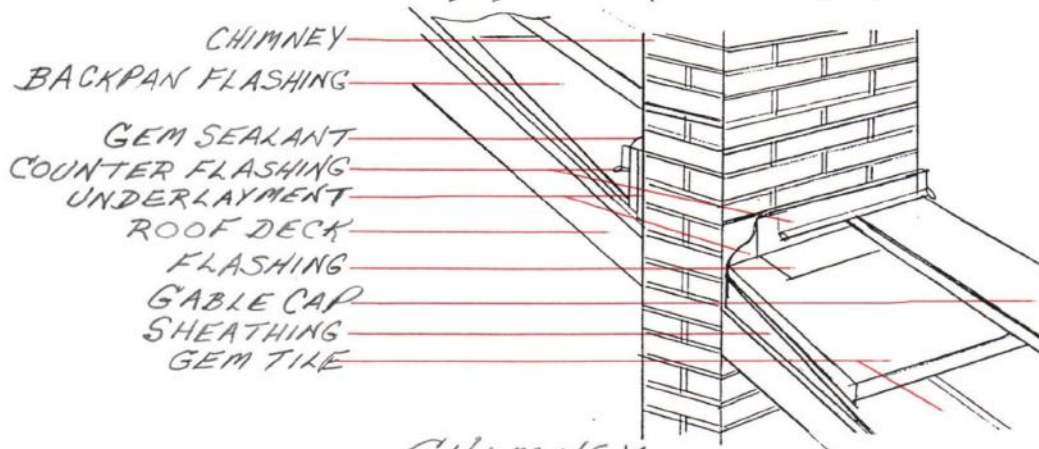
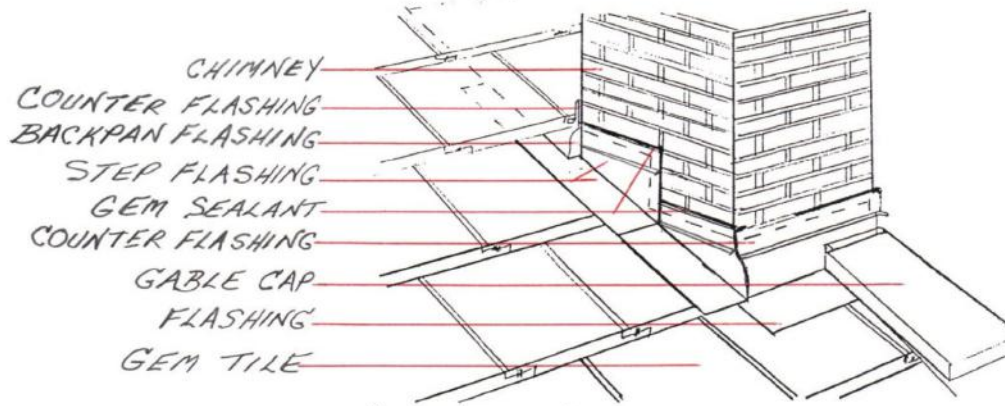
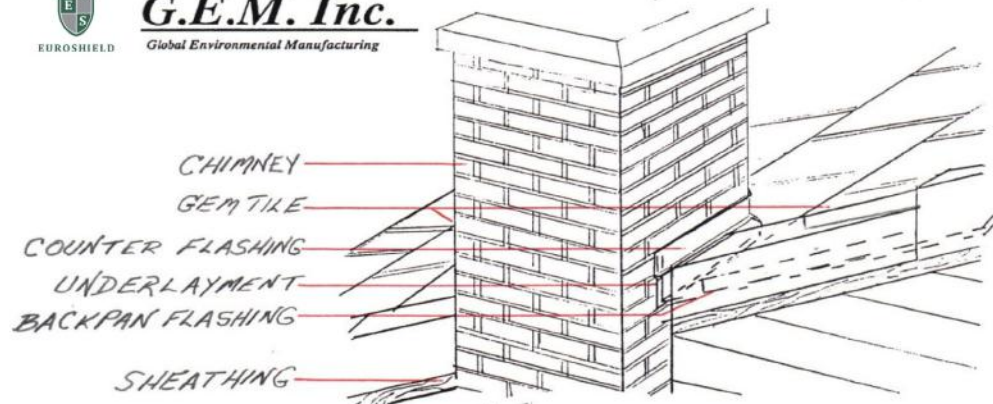


Note: Cut Locking Tongue off Ranchlands Shake/Rundle Slate panel for Step Flashing so flashing lays flat on the panel.

CHIMNEY INSTALLATION

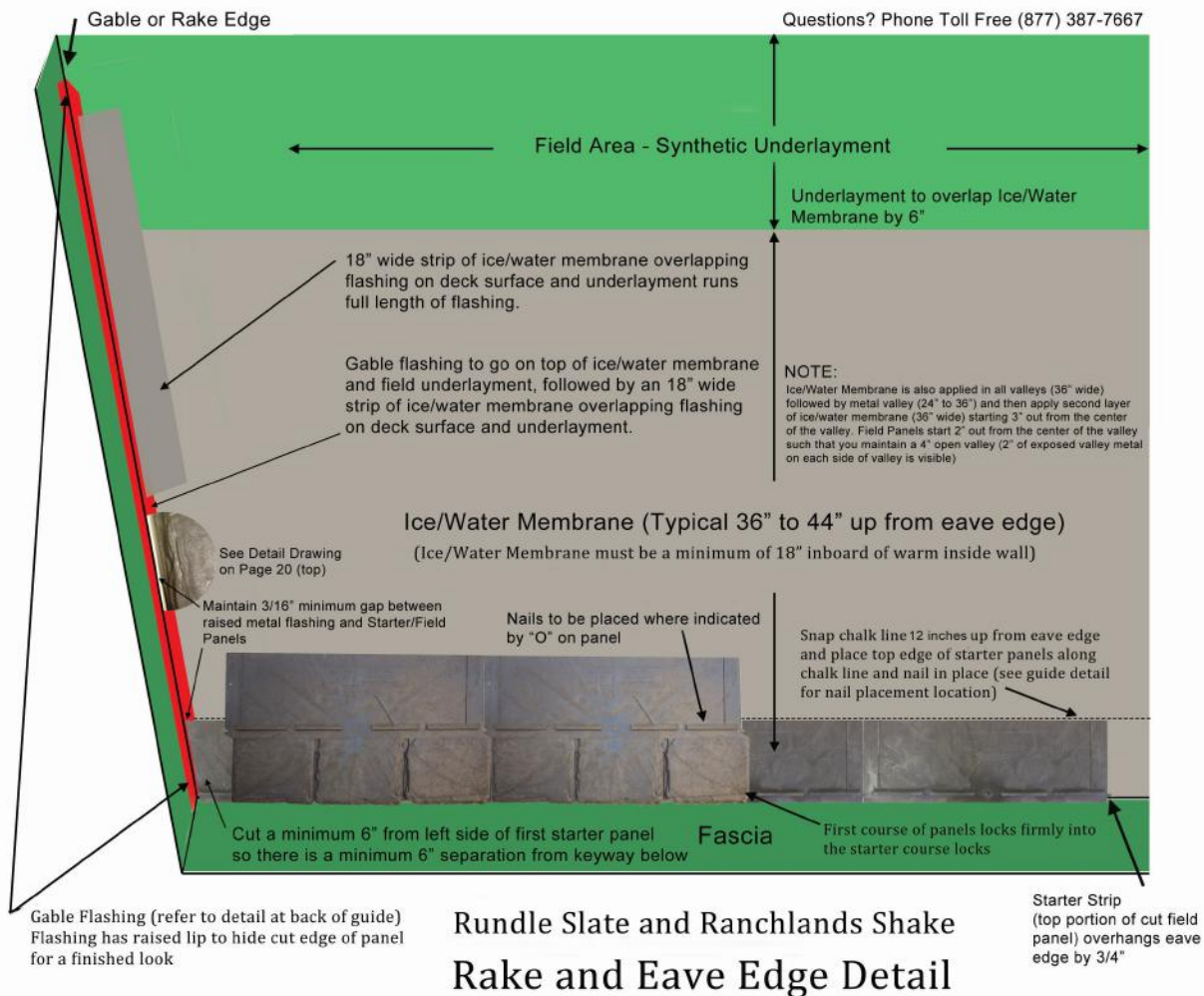


G.E.M. Inc.
Global Environmental Manufacturing



CHIMNEY
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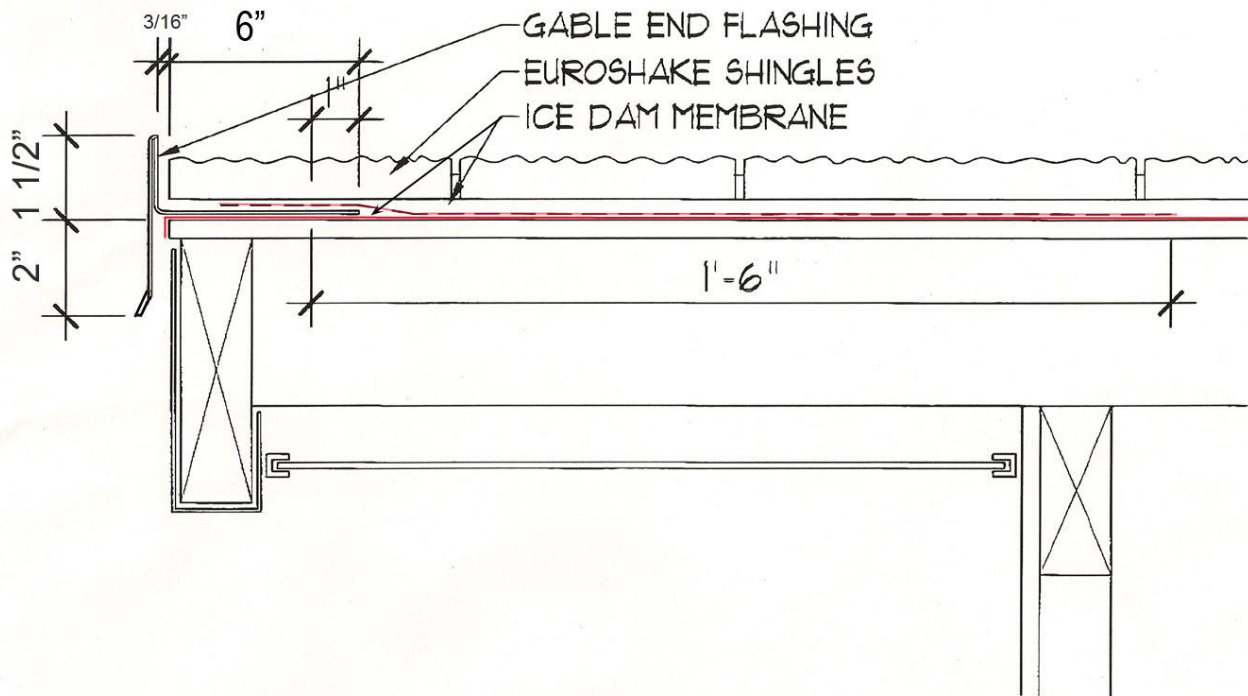


EAVE STARTER STRIP

Starting at the left side of the roof eave edge, chalk a straight line 30.5cm (12") from the lower most point of the eave edge.

The starter strip for Ranchlands Shake and Rundle Slate is a separate manufactured panel however you can also cut the top portion of the panel off and use as starter strip, should the need arise. Cut the panel using a portable table saw if possible to produce a straight cut, or use a utility knife and straight-edge steel guide along the edge where the exposed portion of the panel ends (as shown in the diagram below) and save the bottom portion for use later to finish at the ridge prior to cap installation.

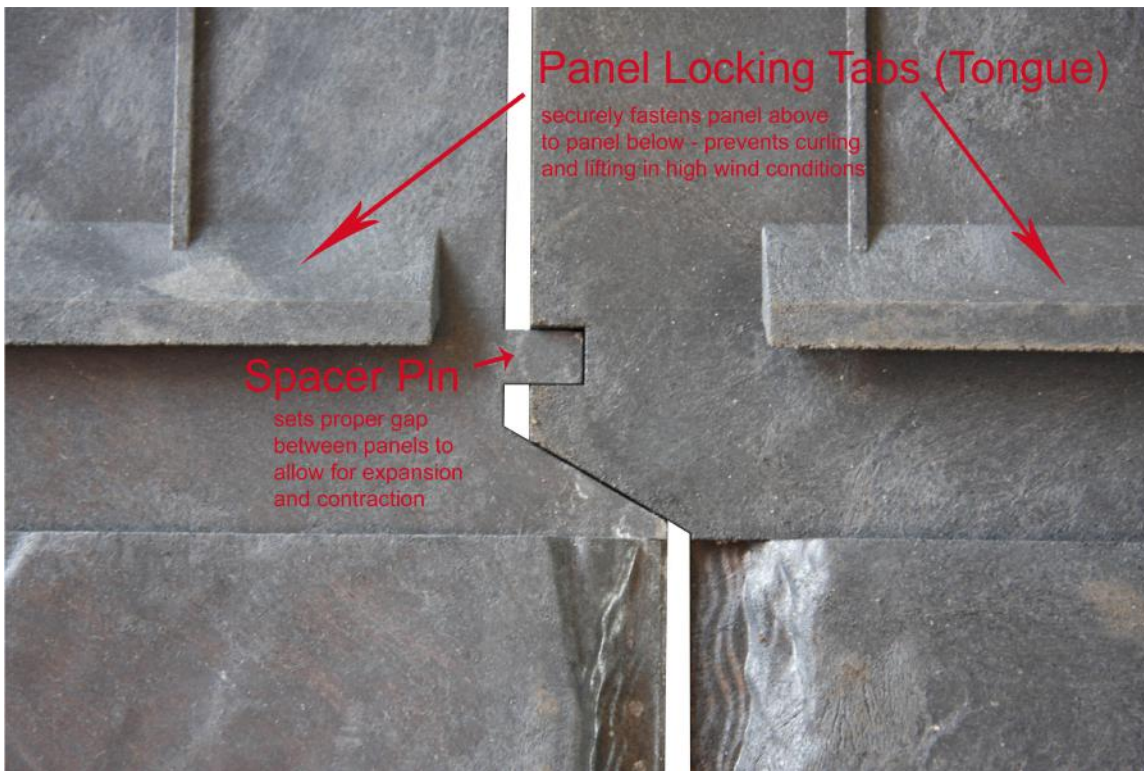
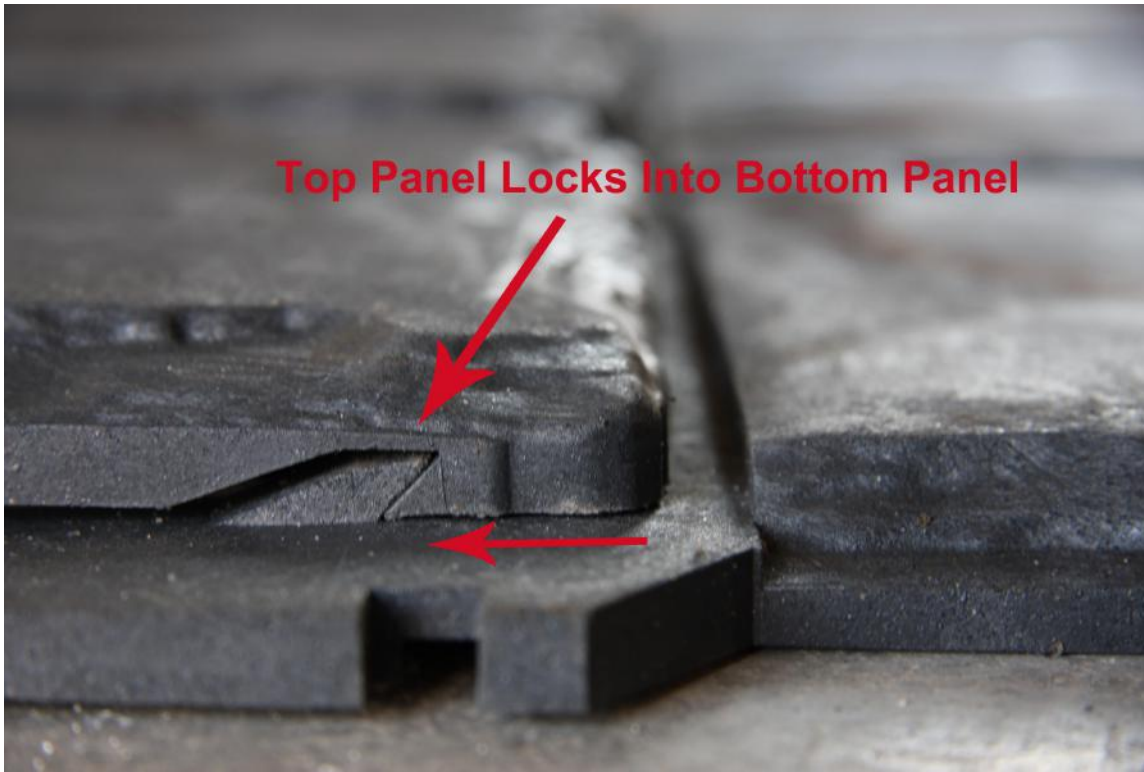




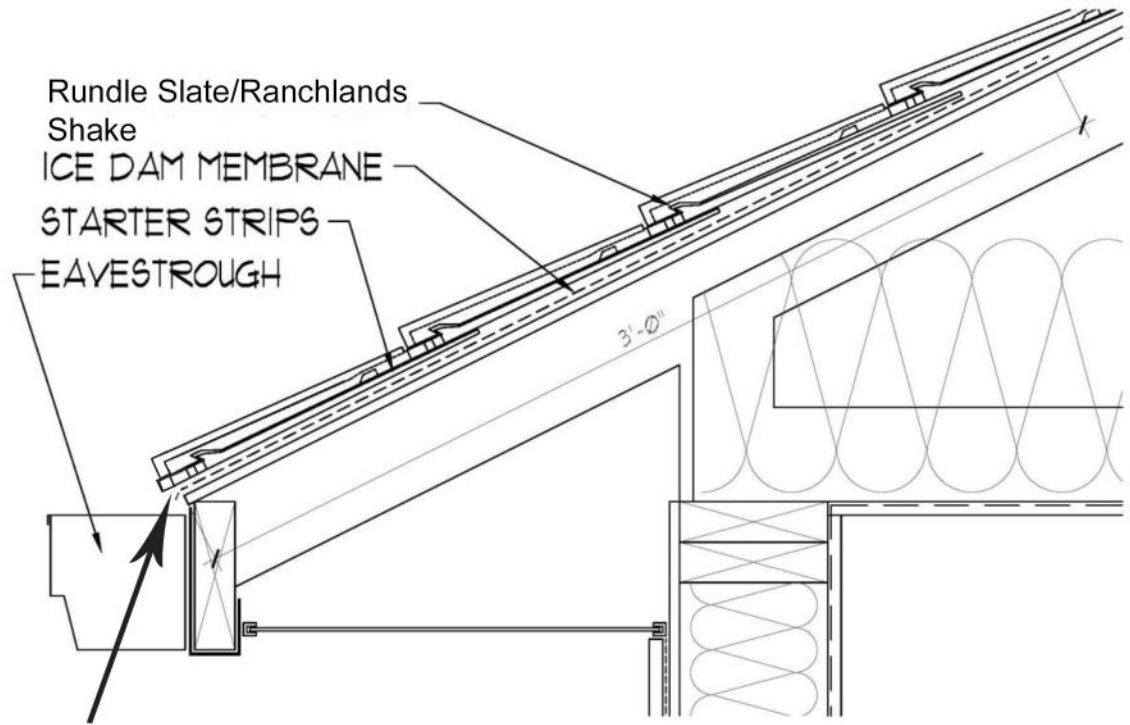
Install Rundle Slate/Ranchlands Shake starter strip panels leaving 1/8" space from the gable trim. Cut a minimum of 6" from the left side of the first starter strip prior to installing so that the first full panel installed on the lower left deck is a minimum 6" from the starter panel joint below.

Fasten utilizing seven (7) 1 3/4" galvanized roofing nails approximately 2" above the tongue in the panel (see illustration in "Fastening" section). At the right gable end of the roof, the last panel must be cut 3/16" from the gable trim.

The "Tongue and Groove" fitting of the panels ensures a straight row, and must be installed left to right.

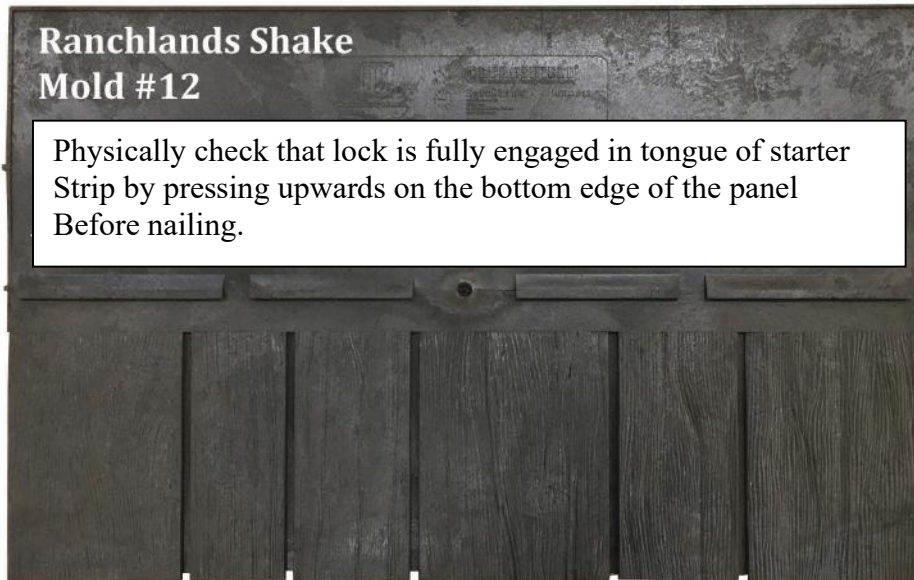


Do not nail the face of the panel as the fascia will have to be installed under the drip edge. Cut slate on the angle for the centre of the valley.



FIELD PANELS – Refer to Layout Pattern Sheets found at the end of this Guide.

Field panels can now be installed by sliding the tongue of each piece into the groove of the starter strip panel or field panel below.



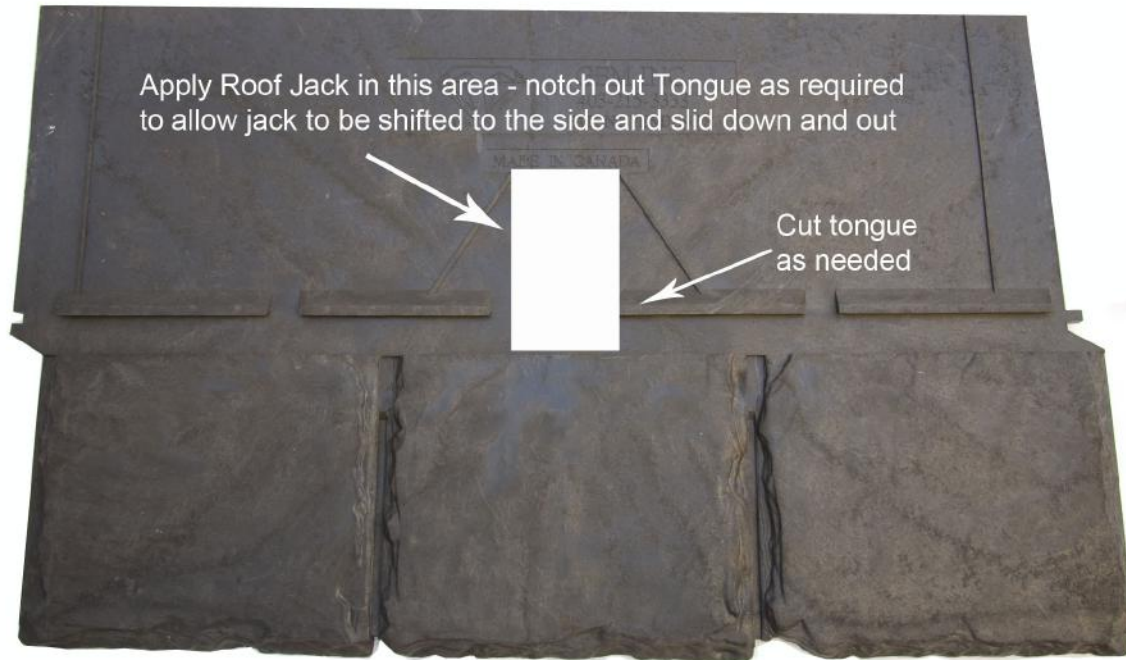
The first full-panel course locks into the tongue of the starter-strip. If working left to right out of a valley, place the top left portion of the panel in the valley such that the diagonal cut down, 2 inches out from the centerline of the valley, from left to right cuts through the entire panel. The edge spacer tab on each piece is fitted against the edge of the preceding panel. At the ends of the courses trim panels (using a power saw or knife), to be flush with the edge.



Rundle Slate panels are installed using seven (7) 1 3/4" galvanized roofing nails (6 nails for Ranchlands Shake) above the tongue of the panel where indicated by "O" target locations. (see illustration in "Fastening" section). No exposed standard roofing nails are permitted when installing Euroshield® products.

ROOF JACKS

Roof Jacks may be fitted and removed as shown in the photo below.



Upon reaching the peak of the roof, the last row of panels may have to be trimmed along the upper edge, flush with the ridge.

Walls, chimneys, plumbing vents, attic vents, skylights etc. must be flashed and sealed as described in other sections of this manual, and woven into the Euroshield® as the field panels are progressively installed up the slope of the roof.

RIDGE CAP

Ranchlands Shake/Rundle Slate can be installed over ridge venting. Please consult the ridge vent manufacturer for details on application.

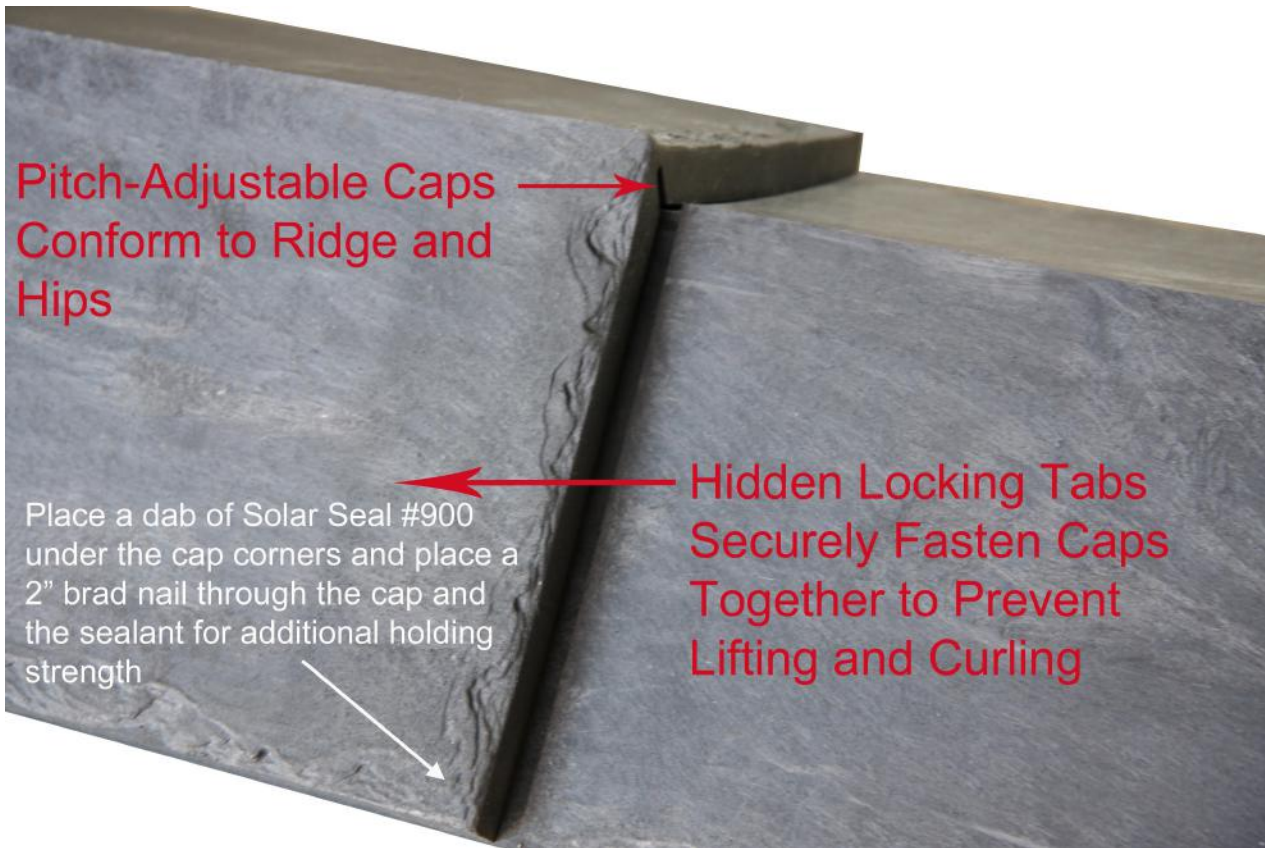
When the field panels are completely installed the ridge cap panels can be added. Ridge caps are installed starting from east or south side so they do not face prevailing winds. The caps are installed in similar fashion to the field panels, the tongue fitting firmly into the groove of next cap as you work your way along the ridge.

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® (or equivalent sealant) under the cap at the fastening point prior to placing the brad nail.

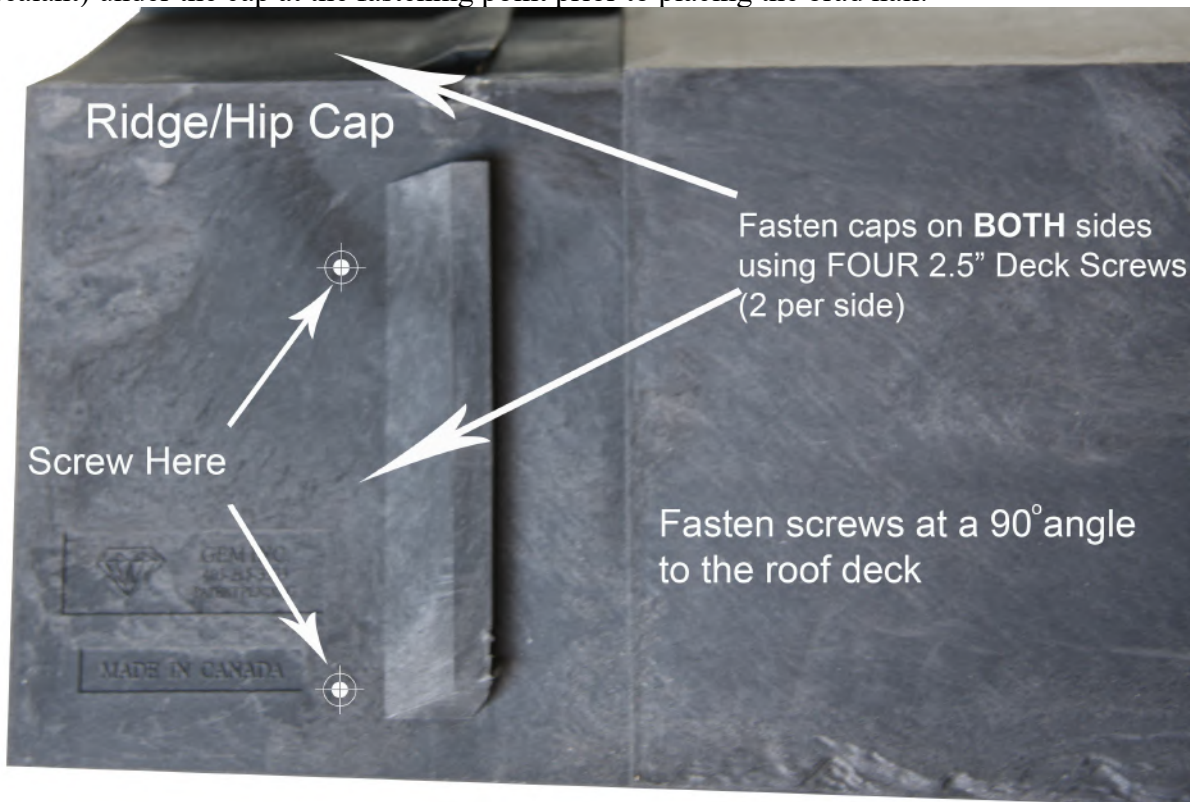


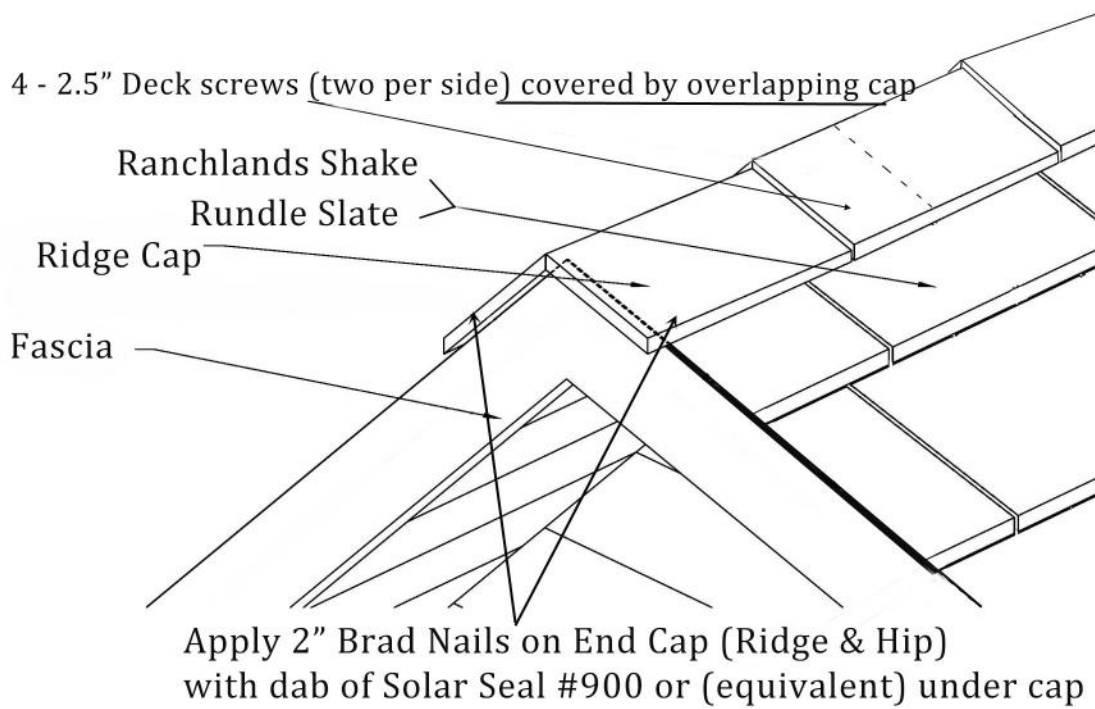
Top Cap - Reverse Side

Locking Tab fits into cap above - top cap slides forward to lock



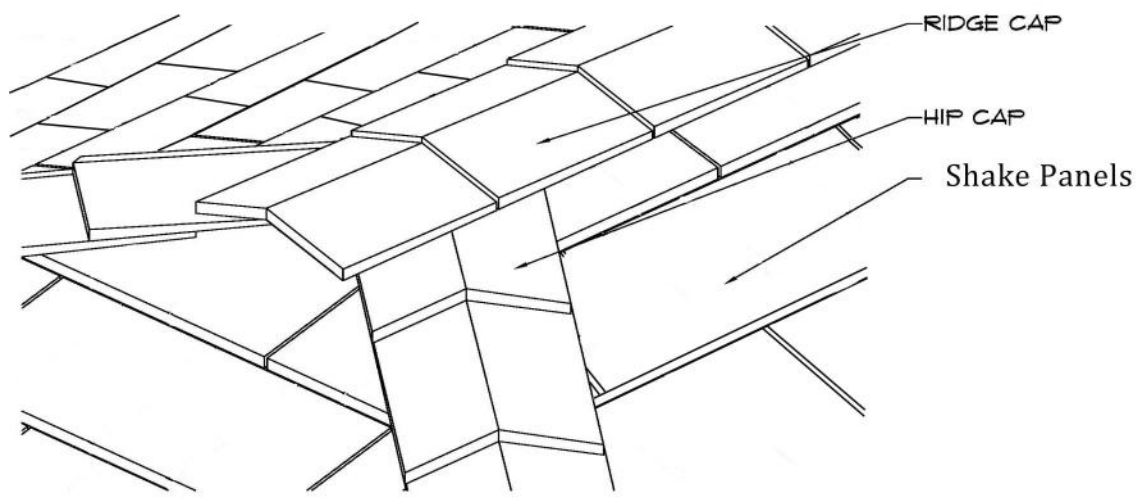
Each cap is fastened using four (4) 2.5" galvanized deck screws, 2 on either side above the Tongue. The first cap is additionally fastened with two 2" brad nails, one on either side of the cap, near the butt edge as shown in the illustration. Place a dab of Solar Seal #900® (or equivalent sealant) under the cap at the fastening point prior to placing the brad nail.



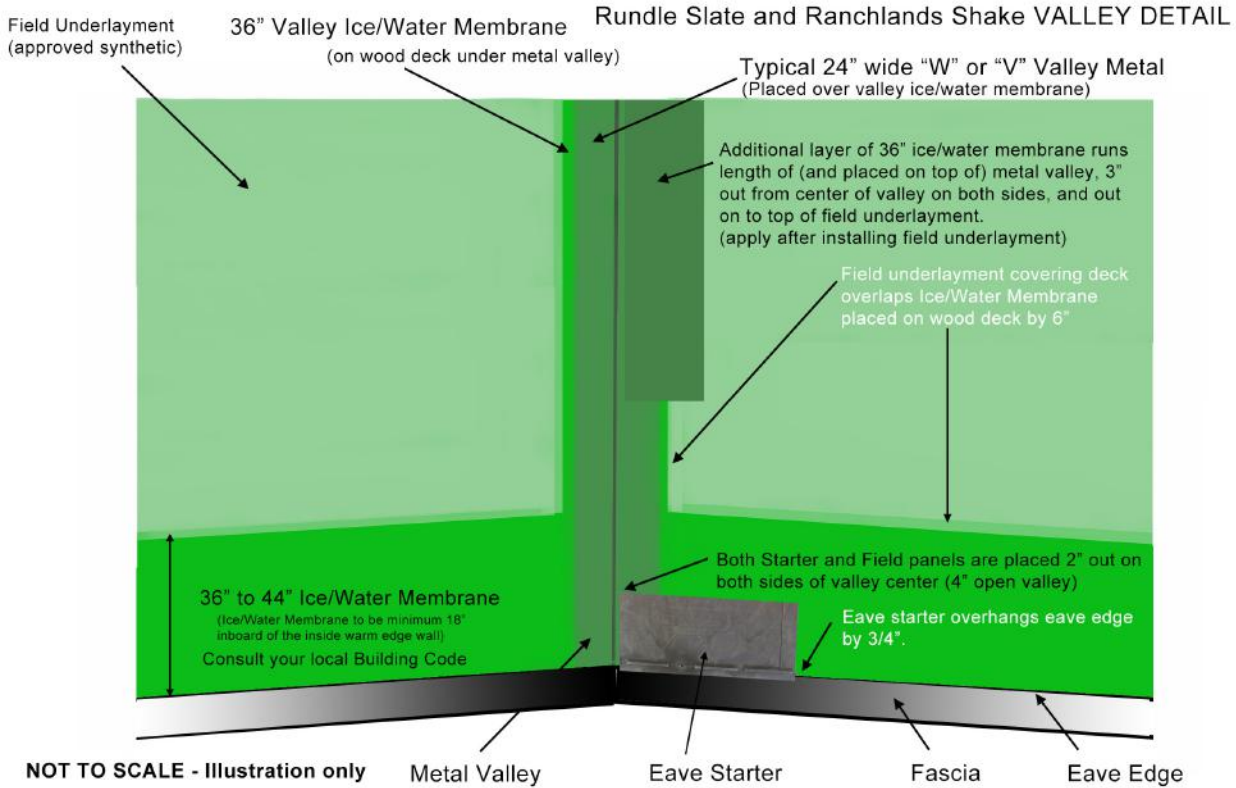


HIP CAP

The hip caps are the same piece as the ridge caps and are installed the same as ridge caps. Beginning at the eave, lock the tongue of the first cap into the groove of the next, working your way up the hip. Fasten with four (4) 2.5" galvanized deck screws, 2 on either side above the Tongue.



VALLEYS



Width - 24" to 36" "W" or "V" Valley: 28 gauge minimum – 26 gauge recommended

Copper

Galvanized

Stainless Steel

Color Clad Steel

Color Clad Aluminum

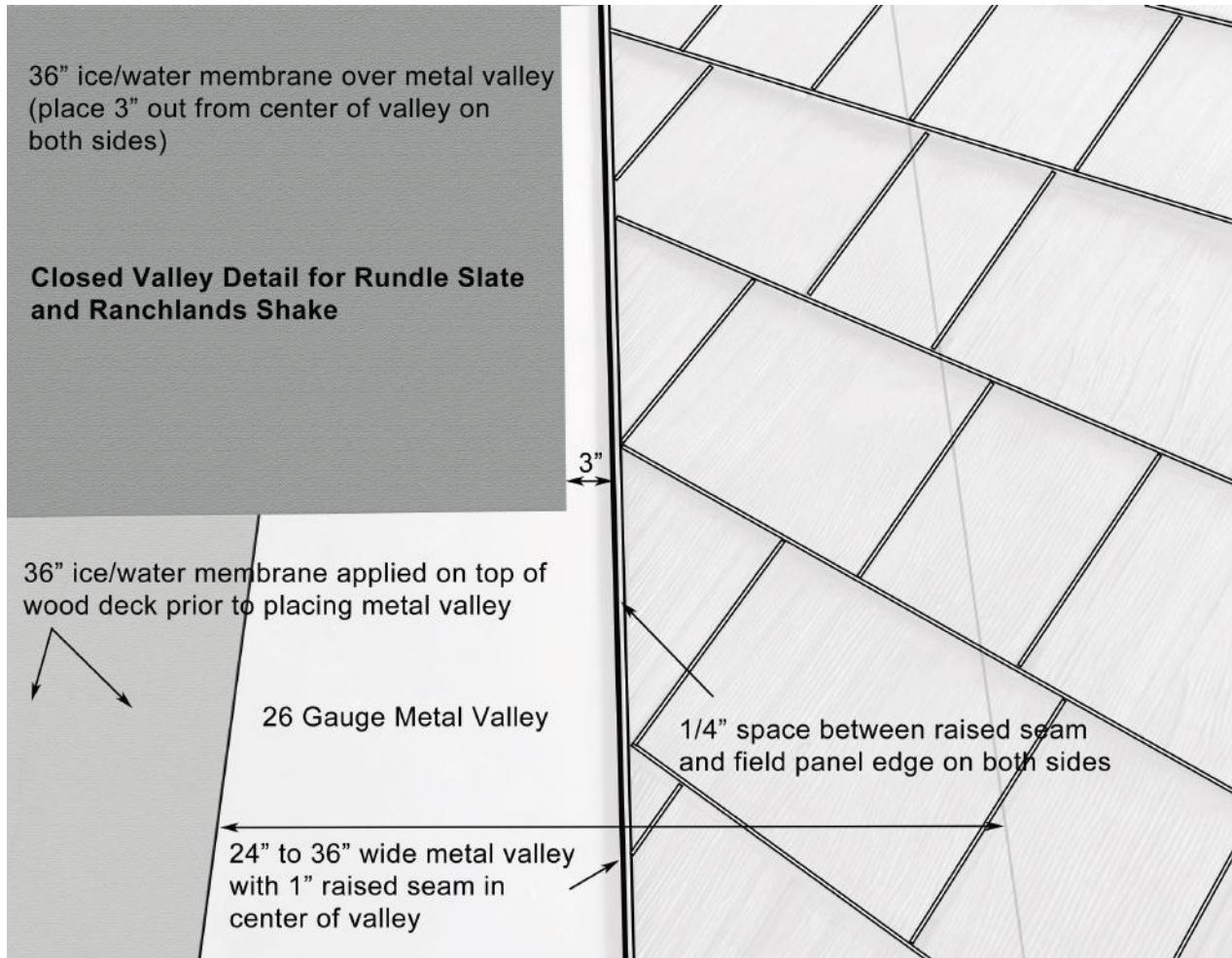
Note: If galvanized valley metals are used we recommend a space of 4" to 6" for the open area.

Note: Fastening shingles onto valley areas, nail as far away from the centre of the valley as possible to avoid penetrating into the valley metal.

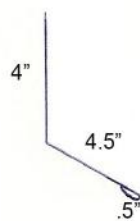
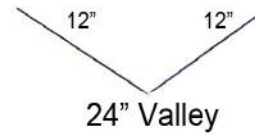
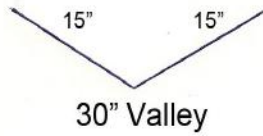
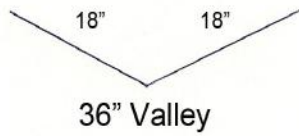
NOTE: OPTIONAL CLOSED VALLEY INSTRUCTIONS FOR SEVERE HAIL REGIONS

In areas where large hail occurs and there is a possibility of hail denting and damaging open valleys you have the option of a closed valley system which eliminates exposed metal valley flashing.

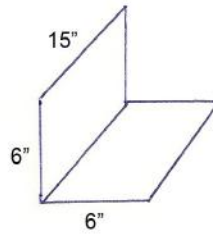
Note the illustration below for closed valley installation.



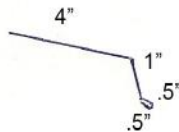
Euroshield™ Metal Profiles



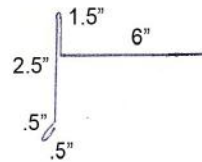
Wall Flashing



Step



Starter



Gable

Panel Layout Pattern

The following Product Layout Sheets are designed to facilitate smooth and easy installation of your Ranchlands Shake or Rundle Slate roof. The layout pattern provided should be followed and will help avoid improper spacing, such as keyways (space between panels and the “simulated keyways” found within each panel) lining up from course to course as you move up the roof, as well as minimizing the effects of undesirable “ladder, step or zipper” patterns. Follow the row numbers as indicated on the top section of each panel for the offsets shown below.

DO NOT install straight up the roof, offsetting each course by the same distance each time, as is often done with asphalt shingles, or you will create a ladder effect which will be visible on the roof.

Please note the mold number embossed on the top side of the Euroshield® panels and make sure you are using the correct Layout Sheet for your particular product/profile/mold number.

If you are installing Rundle Slate there is only one Layout Sheet that applies (pg. 31).

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

Rundle Slate Layout Pattern (all mold numbers)



After laying the first row along the eave edge on top of the starter strip continue up the roof course-by-course using the following panel “offset to left” patterns, Row 1 through 4, as shown in the illustration above. Position the outer edge of the right side of the panel that is exposed to the weather in alignment with the row marker for each designated row. This 4-row pattern is then repeated and continued in this manner all the way to the ridge.

The Rundle Slate panel utilizes 7 nails per panel as indicated by an “O”. Placement and measurements are taken from the outside edge of the to-the-weather portion on the right side of panel

Watch our complete installation videos at www.euroshieldroofing.com

Ranchlands Shake Layout Pattern (Mold #12)

Note: Panels are marked Row 1 thru 4 for offset so measuring not required



After laying the first row along the eave edge on top of the starter strip continue up the roof course-by-course using the following panel “offset to left” patterns, Row 1 through 4, as shown in the illustration above. Position the outer edge of the right side of the panel that is exposed to the weather in alignment with the row marker for each designated row. This 4-row pattern is then repeated and continued in this manner all the way to the ridge.

The Ranchlands Shake panel utilizes 6 nails per panel as indicated by an “O”. Placement and measurements are taken from the outside edge of the to-the-weather portion on the right side of panel.

Watch our complete installation videos at www.euroshieldroofing.com

DETAIL FINISHING

The above instructions should conclude the application of the Ranchlands Shake/Rundle Slate System, excepting the completion of the details on walls, chimneys, skylight, vents etc. They should be sealed with G.E.M. Sealant (or equivalent) and be flashed appropriately in accordance with C.R.C.A. Standard specifications, in conjunction with G.E.M. detail drawings contained within this Guide.

Plumbing vents must be sealed to the pipes with G.E.M. Sealant (or equivalent) and clamped according to pipe flashing manufacturer's instructions.

MAINTENANCE

The EuroShield® System requires very little ongoing maintenance. Renew sealant on details and exposed fastener heads from time to time as required, maintain gutters, troughs, downpipes and drain to remain free of debris so drainage water flows away unrestricted. Should alterations be required involving the roof as time goes on, please contact G.E.M.'s technical department for assistance. Repairs performed with non-EuroShield® system components or incompatible materials will void the EuroShield® warranty.

Thank you for your purchase of Euroshield® roofing products.