



ROSER Stone Coated Steel Roof
ROOFING SYSTEM

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STONE WOOD

— S H A K E —

► INSTALLATION MANUAL

Direct to Deck

ROSER ROOFING SYSTEM
Stone Coated Steel Roof



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Introduction:

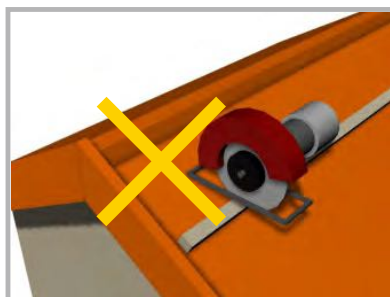
The drawings and the instructions in this manual are intended to be used as a guide for the installation of the Roser Roofing system. Architects, Builders and roof installers are responsible for adhering to local Building Codes and Standards.

If the application techniques vary from those illustrated in this manual or if the manual does not cover a specific case, please contact our Technical Department. The performance, quality and appearance of the installation will ultimately depend on the roofing contractor and installer.

Since, Roser Company Ltd. does not install the roofing materials they manufacture, there is no expressed or implied warranty relating to the installation of the product. Ask your installing contractor about a workmanship warranty for the installation of the product.

Local Code, State and Federal roof installation guidelines take precedence over this manual.

Please adhere to the recommended/common safe roofing practices. Use the appropriate protective safety equipment and clothing.



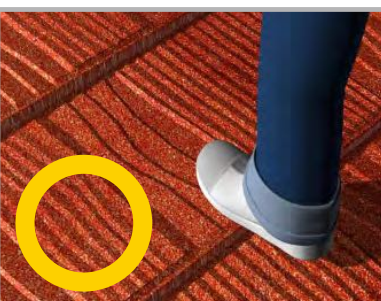
Do not cut the Stone Coated Steel Panels or accessories on the roof. The steel dust may cause rusting



Please try to avoid storing heavy items on the roof during the installation.



Do not nail or fasten through the face of the valley in order to avoid water penetration.



Please wear soft soled shoes whenever possible.

Please walk where the panels intersect in order to avoid denting the roofing material.

Roof slopes that are under 3:12 are considered to be decorative.

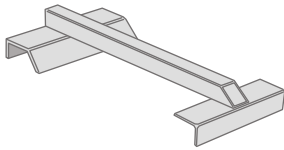
Roser recommends **30-pound felt** or **synthetic underlayment**. In cold climates, ice and water shield is highly recommended.

Do not use **lead or copper** with the Stone Coated Steel Roofing System.

Do not use **pressure treated lumber**.

Do not use **lead pencil** to mark the panels.

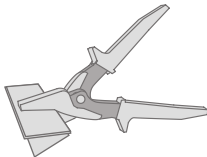
Recommended Tools



Batten Spacer



Cutter



Hand Bender



Circular Saw with a metal cutting blade



Bender

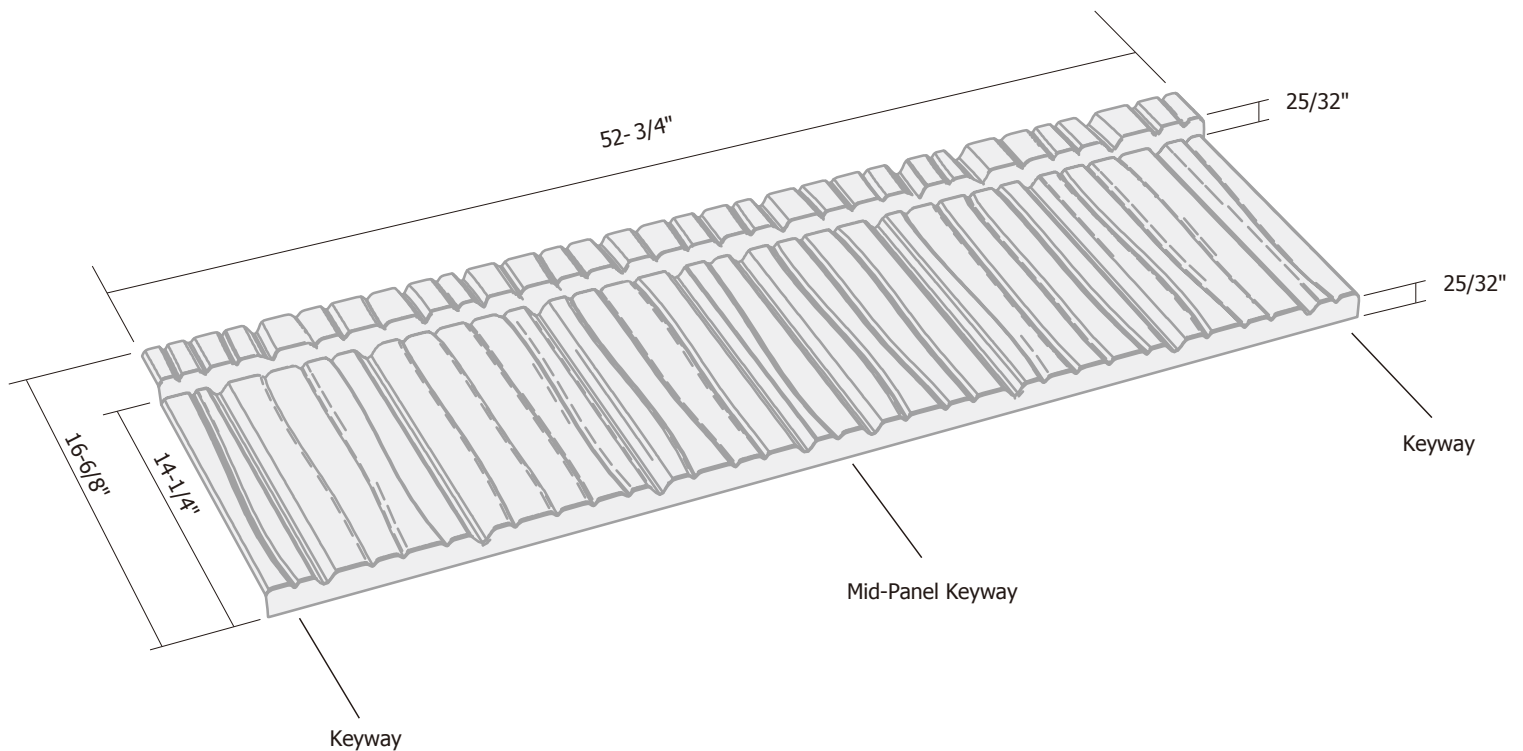


Aviation or Tin Snips



Touch UP Kit

Stone Wood Shake Tile



Overall Length	52-3/4"
Length of Cover	50-6/16"
Width of Cover	14-1/4"
Roof Cover / Tile	4.95 sqf per panel / 20.2 panels per square (100 sqf)
Base Steel Thickness	0.40mm / 26 Gauge
AL-Zn Coating	55% Aluminum-43.4% Zinc-1.6% silicon coating
AL-Zn Coating Grade	AZM 150
Galvalume ASTM Designation	ASTM A792
Weight	6.61 lbs

Accessories



Weight: 1.32 lbs

Product name	Hip & Ridge
Overall Length	15-15/16 x 6-5/16"
Exposed Length	14-9/16" x 6-5/16"



Weight: 0.08 lbs

Product name	Shake End Cap
Overall Length	6-1/8" x 5-7/8"
Exposed Length	6-1/8" x 5-7/8"



Weight: 6.5 lbs

Product name	Fascia / Eave Flashing
Overall Length	78-3/4"
Exposed Length	74-13/16"



Weight: 9.20 lbs

Product name	Flat Sheet
Overall Length	78-3/4"
Exposed Length	dependent on application



Weight: 6.30 lbs

Product name	Side Flashing
Overall Length	78-3/4"
Exposed Length	74-13/16"



► **Direct to Deck**

Weight: 5.21 lbs

Product name	Valley Type 1
Overall Length	78-3/4"
Exposed Length	74-13/16"



► Batten install

Weight: 5.71 lbs

Product name	Valley Type 2
Overall Length	74-13/16"
Exposed Length	78-3/4"



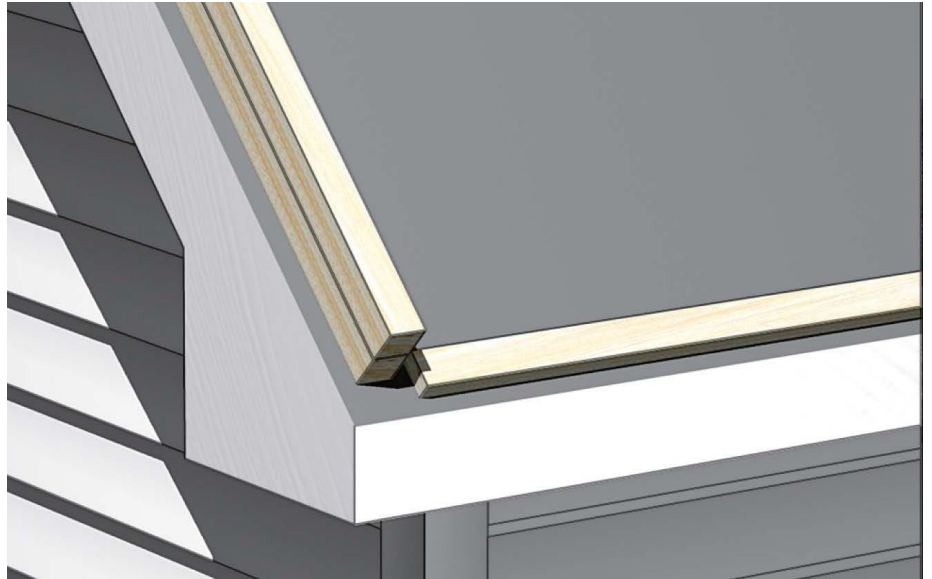
Direct to Deck Preparation

After preparing the deck with proper underlayment (Roser recommends 30-pound felt or synthetic) position a 1x4" starter batten flush with the fascia board.

Use 16d minimum common nails or their equivalent. Nail at 24" OC (on center)

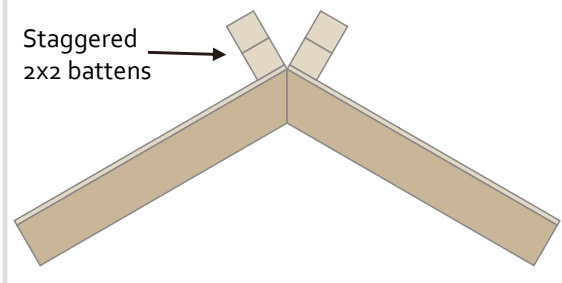
Stagger a pair of 2x2" battens along the hips, rakes and the ridges

Use 16d minimum common nails or their equivalent. Nail at 24" OC (on center)

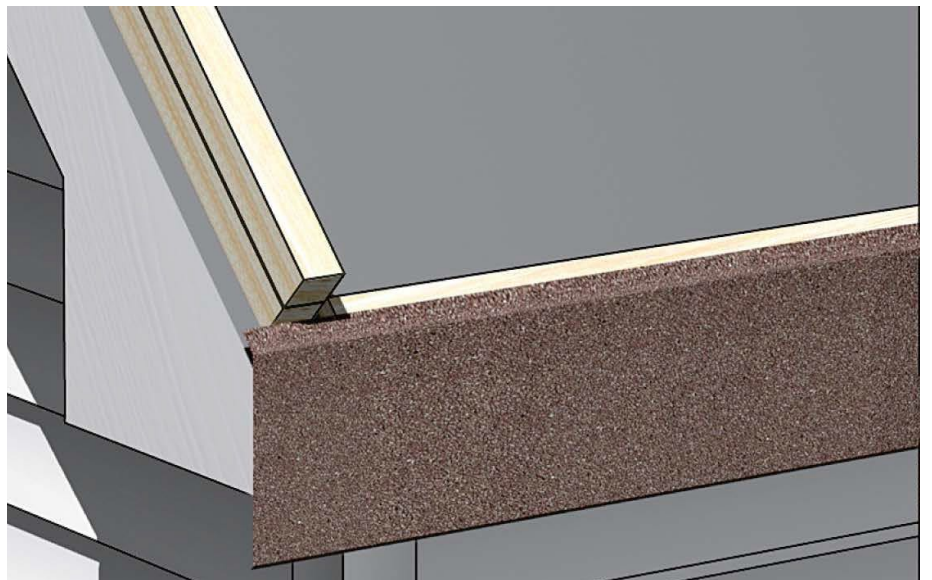


The starter batten must be parallel to the ridge. Fascia can be uneven.

Hip and Ridge front view



Install Fascia / Eave Flashing along the fascia board, using the colored fasteners at 6" increments.



Field Panel Connections

Start the installation of the panels from the Fascia towards the Ridge, (bottom to top)

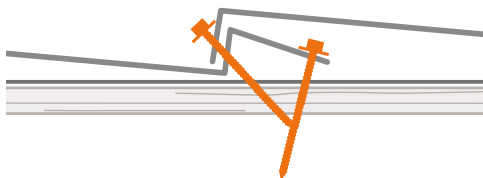
You can install the panels left to right or right to left.

Depending on the location of the installation, two types of fasteners are recommended.

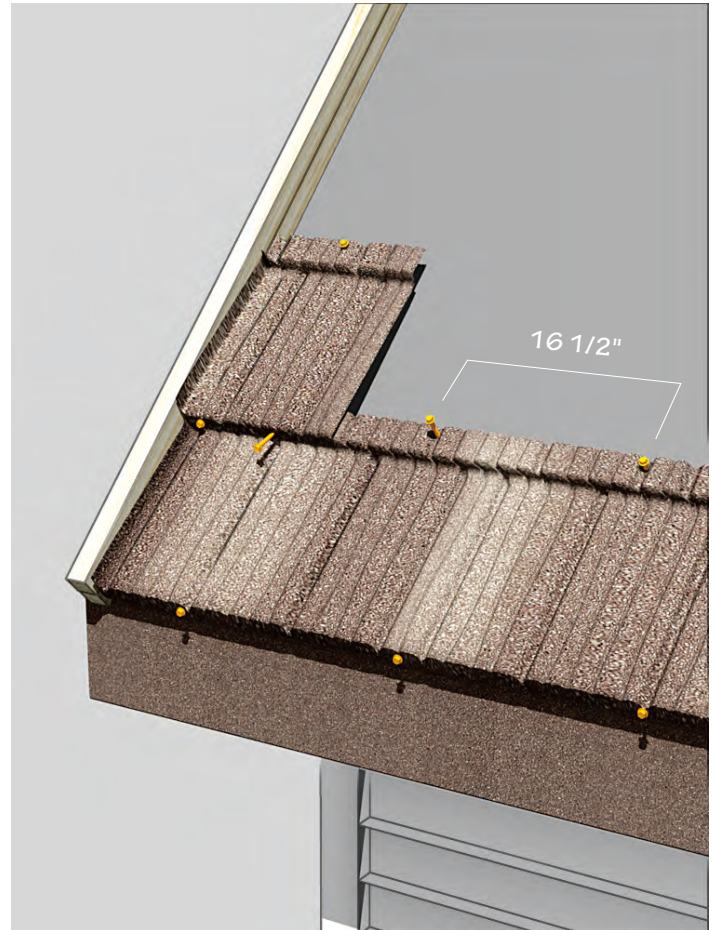
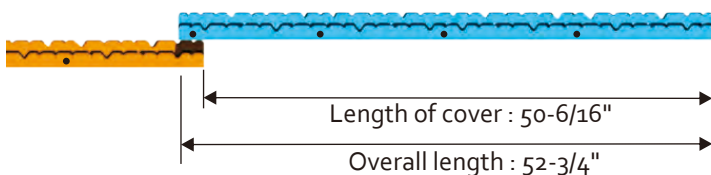
- **8D 1-1/2"** - Roser recommended galvanized colored screw - in locations that do not require both fasteners to go through the roof deck.
- **8D 2-1/4"** - Roser recommended galvanized colored screw - in locations that require both fasteners to go through the roof deck.



8D 1-1/2" - Galvanized colored screw application



8D 2-1/4" - Galvanized colored screw application

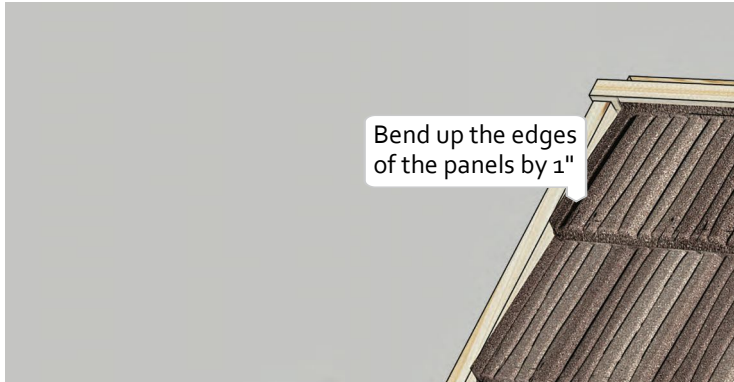


Connect panels at "keyways" on either side of the panel. There is also a keyway at the center of the panel.



Fasten four screws at 16-1/2" increments starting with the panel overlap at the keyway.

Field Panel Installation

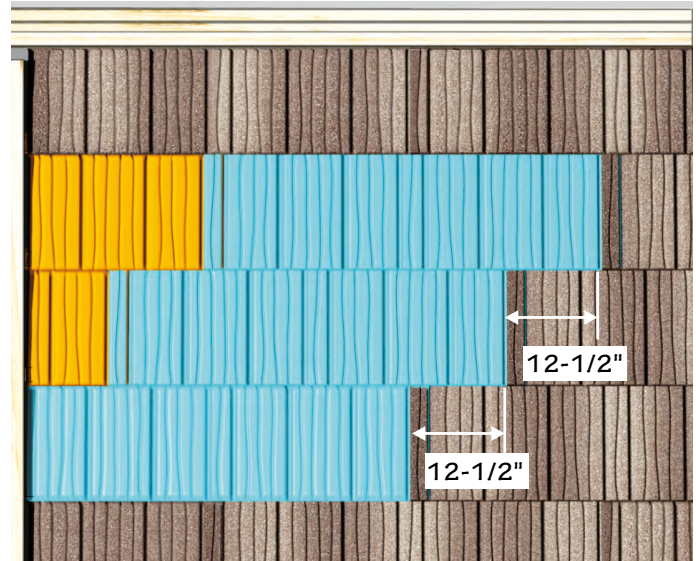
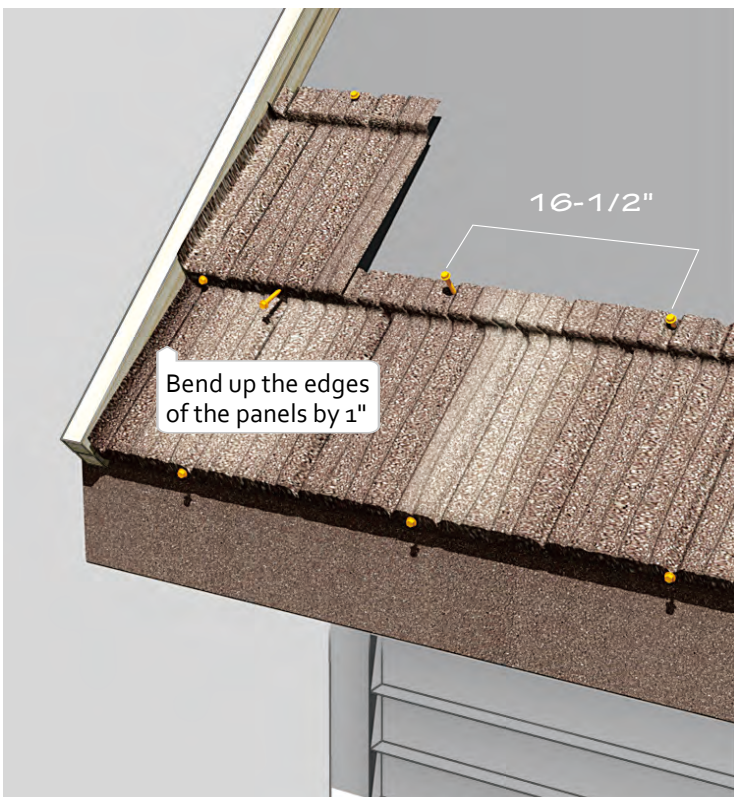


When installing the Roser field panels directly to the deck, begin with the **bottom row first**.

The panels can be installed from **left to right** or **right to left** at the installer's convenience.

Bend up the edges of the panels by an inch when they reach the eave, rake, ridge, or side-wall.

A standard field panel bender or tin/aviation snips are recommended for bend ups.

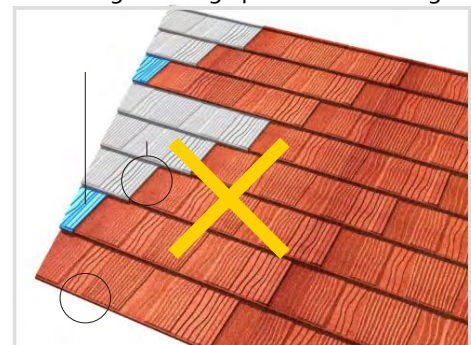


Do not stagger / line up the panels vertically on the roof

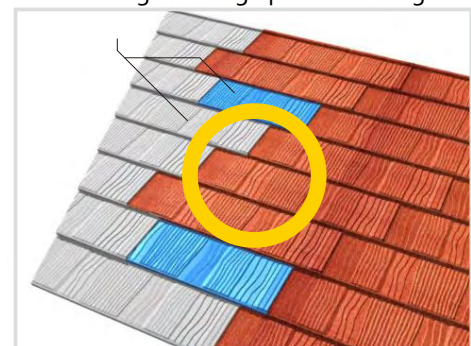
Try to maintain a **random** panel formation as much as possible

Do not make a pattern

The length of edge panel is not enough

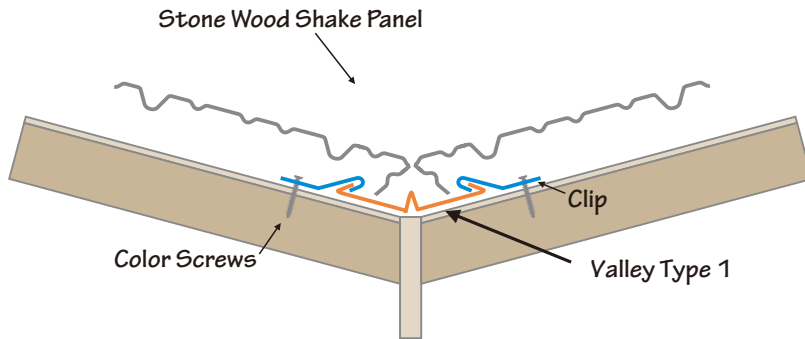


The length of edge panel is enough



Valley Installation

Closed Valley



A closed valley application creates a more attractive appearance. Insure that the panels that run into the valley are bent inwards into the Valley Type 1 provided by Roser.

Be certain that the line where the panels meet at the valley is straight from the ridge the the fascia.

Make sure the valley is secured every 24"



Make sure the valley pieces overlap at a minimum of 6"
The upper valley piece must go over the lower valley piece

Make sure that the terminating valley piece extends beyond the fascia boards in order to prevent wicking.

Roof to Wall Connection

At the connection of the field panels with front facing wall or side-wall, bend the panel up 2" to allow for maximum coverage by side flashing

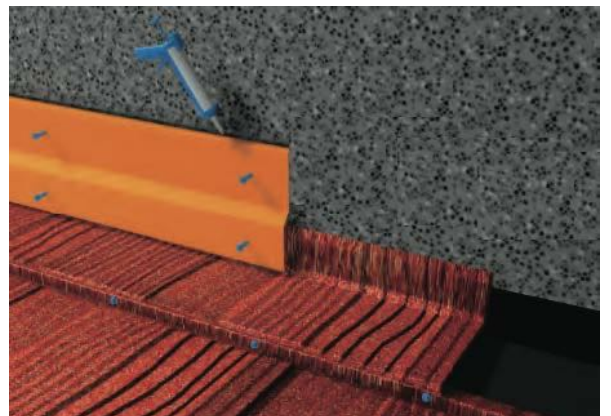
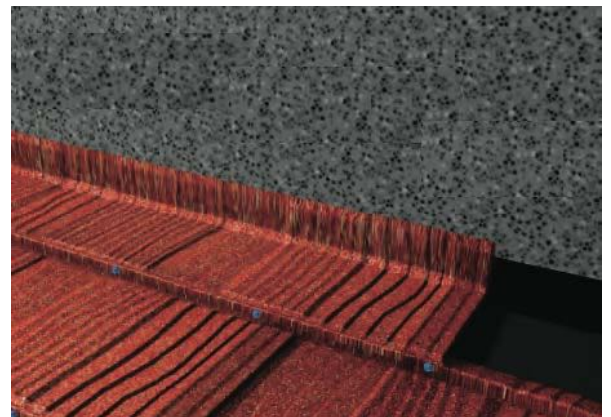
Seal the upper end of the panel bend with polyurethane sealant.

Install the side flashing over the bends in the field panels.

Run a line of caulk over the top of the side flashing to make sure there is no water penetration.

Fasten the side flashing to the wall using appropriate corrosion resistant screws.

When existing side wall flashing is available, it is recommended to install the Roser Side Flashing underneath the existing flashing.

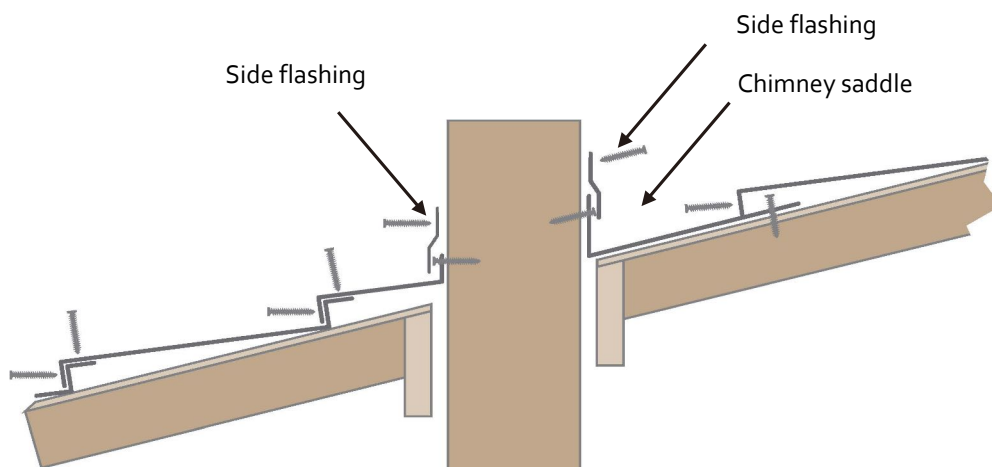
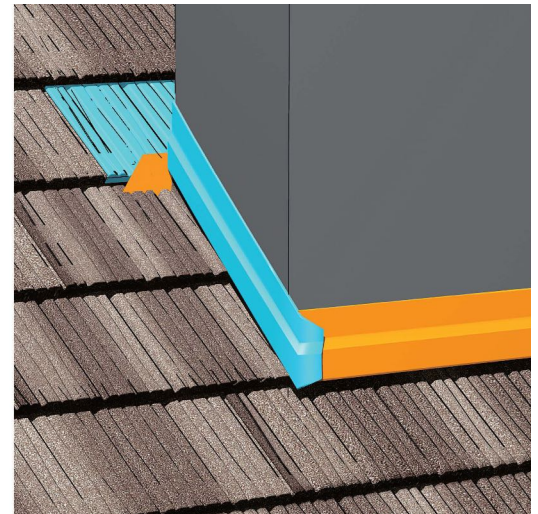
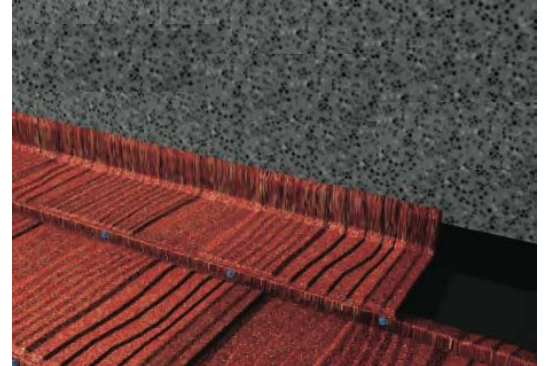


Chimneys

Make sure to counter-flash Roser flashing components or tuck them under existing siding. Seal all of the protruding edges with polyurethane sealant. Be mindful of water-flow direction when installing flashing components.

On the front and side walls of the chimney the panels should be bent up by 2" to allow for maximum coverage by Roser side flashing.

1. Install the Roser side flashing on the front facing wall and bend the edges that extend past the chimney wall inward.
2. Install the Roser side flashing on the side facing walls and bend the front facing side inwards over the front Roser side flashing
3. Install the chimney saddle
4. Install the Roser side flashing over the chimney saddle.

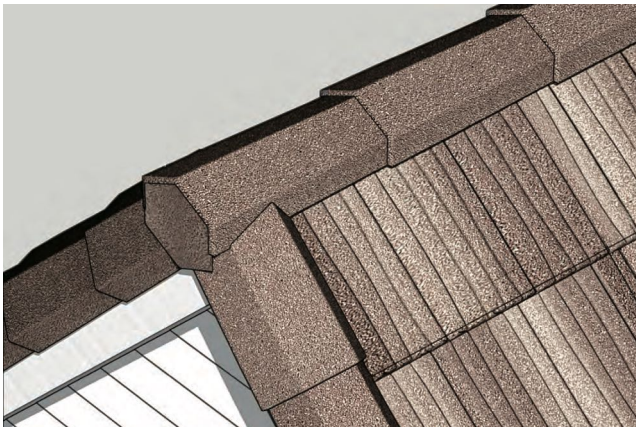




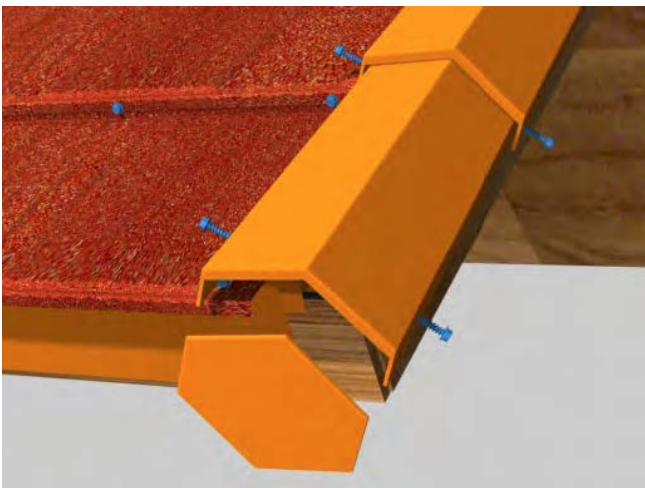
Hip and Ridge

Bend up the panels at 1" at the hips, ridges and rakes

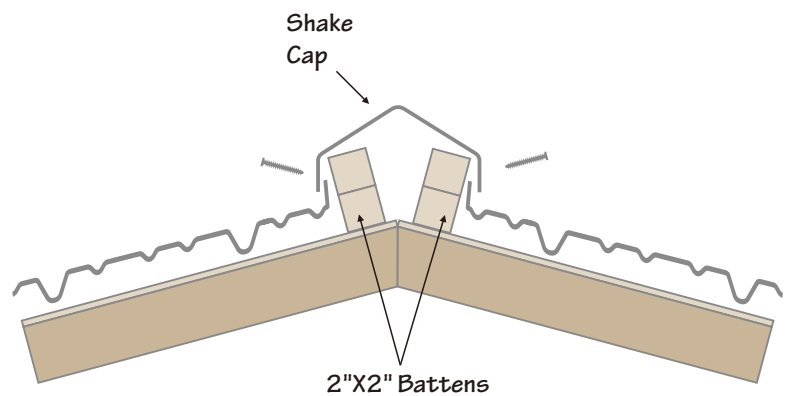
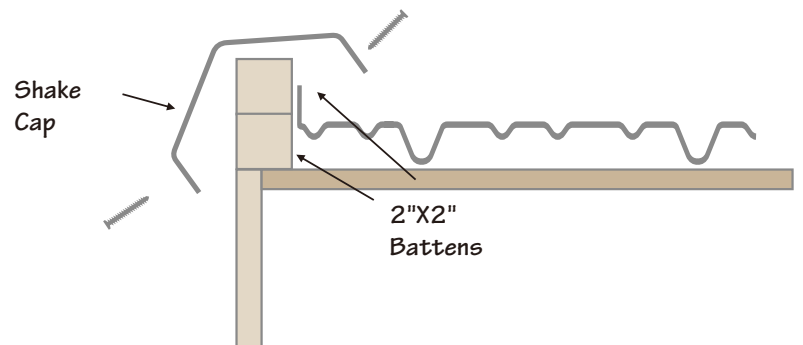
Fasten the bend ups at the hips, ridges and rakes with the same fasteners that were used to install the field panels



Miter the shake caps where necessary, when multiple lines of the roof intersect



Seal the end-caps to the ridge caps securely



Notes



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