

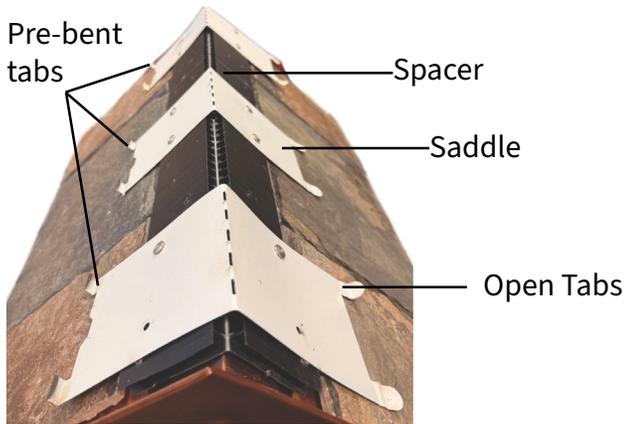
# RIDGE Installation Guide

## Step 1

Install the Spacer and secure it with fasteners.

Install the Saddles 12" apart from each other, securing them with screws.

**IMPORTANT:** Do not place fasteners through the Rake Metal.



## Step 2

Install the Tile Liner. Work in 3 - 4 ft lengths, overlap 6" on ends.

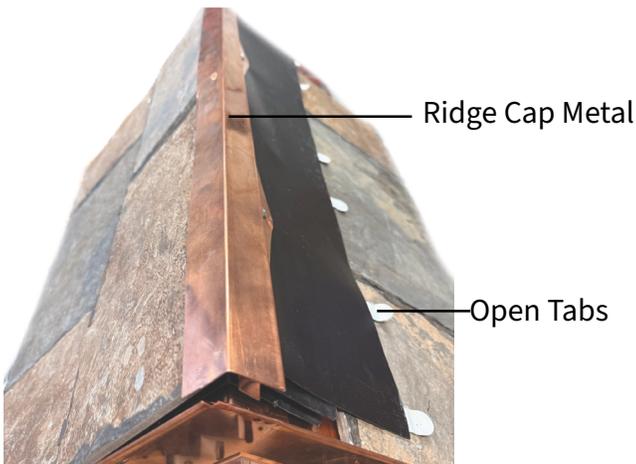
Install 3 Trim Tiles on Pre-bent Tabs.



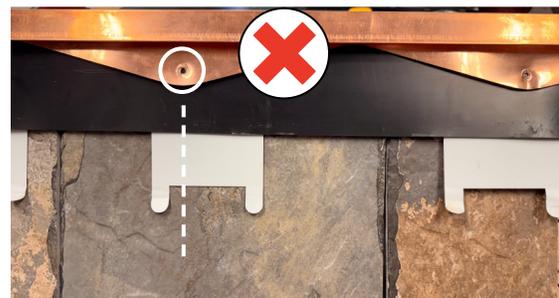
## Step 3

Install the Ridge Cap metal and fasten it with screws through each hole. Use stainless or copper fasteners on copper Ridge Cap.

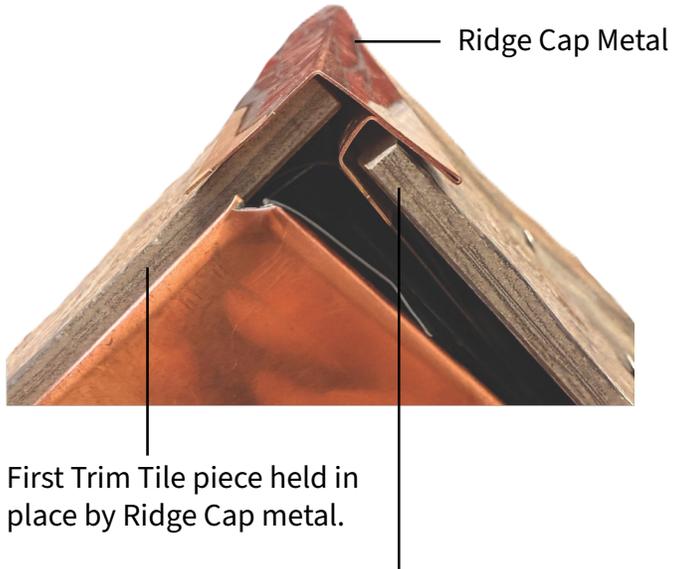
**IMPORTANT:** Make sure the side where the Ridge Cap metal is fastened is aligned with the Open Tabs side of the Saddle.



**IMPORTANT:** Make sure to place the Saddles at the required spacing. This ensures that, when installing the Ridge Cap metal, it will not be fastened on top of the Saddle.



# RIDGE Installation Guide (cont.)



Install the opposite Trim Tile by sliding it into the slot on Ridge Cap metal.

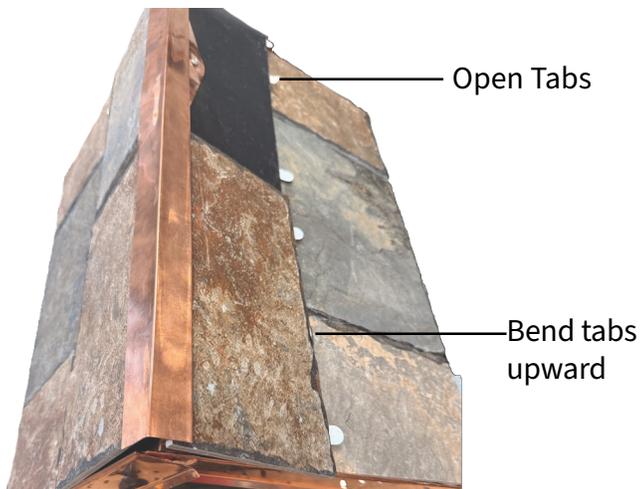
## Step 4

Install the opposite Trim Tile.  
Trim excess Tile Liner.



## Step 5

Bend the Open Tab up to secure the Trim Tile.



## Step 6

Repeat the process to finish the Ridge.



# MITERED HIP Installation Guide

## Step 1

Use a chalk line to mark the center line of the hip.

Trim the starter bracket and fasten it to the deck (*Image 1*).

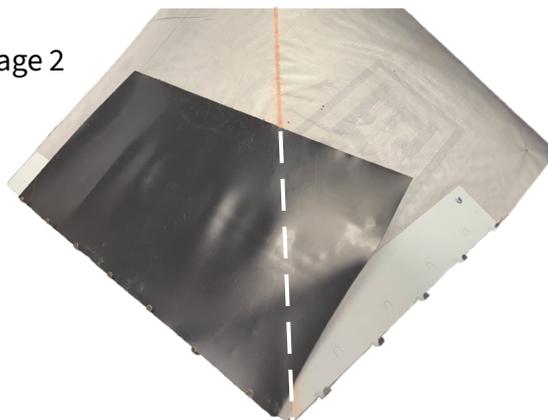
Image 1



## Step 2

Install the Tile Liner, folding it over the center of the Hip (*Image 2*).

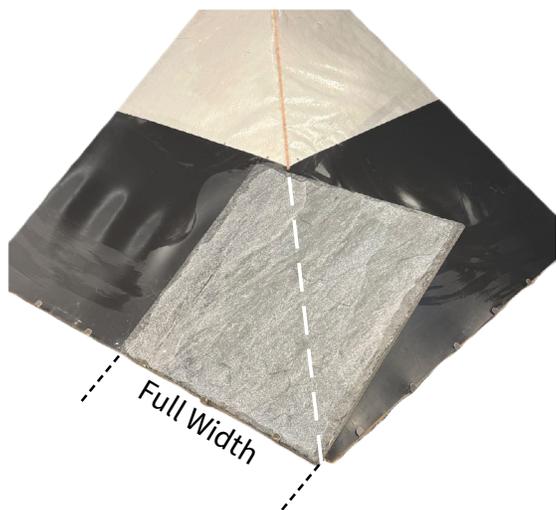
Image 2



## Step 3

Establish the angle of the first tile by placing a full Tile on the starter bracket on the bottom corner of the Hip (*Image 3*).

Image 3



**IMPORTANT:** Hip tiles, always make sure the bottom edge is full width.

Cut the tile quickly and easily using a manual tile cutter (*Image 4*).

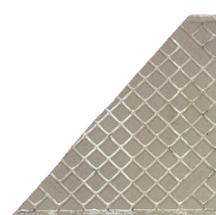
Image 4



**IMPORTANT:** The first tile can be used as the pattern for both sides of the hip in the next courses. If a tile is too small trim the adjoining 2-3 tiles to accommodate a larger piece.



Full Width  
at Bottom



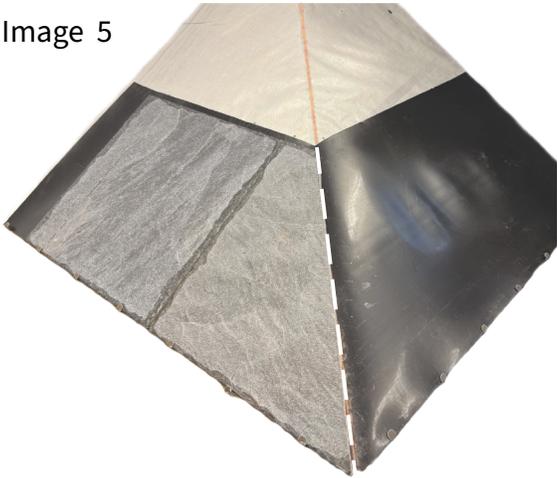
Back of tile used  
as pattern for  
opposite side

# MITERED HIP Installation Guide (cont.)

## Step 4

Install the cut Tile, aligning it with the center of the Hip (*Image 5*).

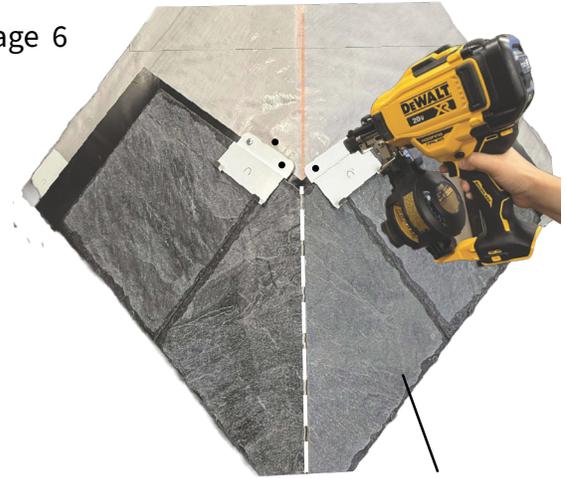
Image 5



## Step 5

Install the field brackets.  
Secure the field brackets over the top of cut Tile using two fasteners (*Image 6*).

Image 6



Use back of tile as pattern for this side.

## Step 6

Repeat the Process.  
Install the Tile Liner, the tile and secure the field bracket using two fasteners (*Image 7-8*).

**IMPORTANT: Ensure that the field brackets are installed at the joints of each tile.**

Image 7



Image 8



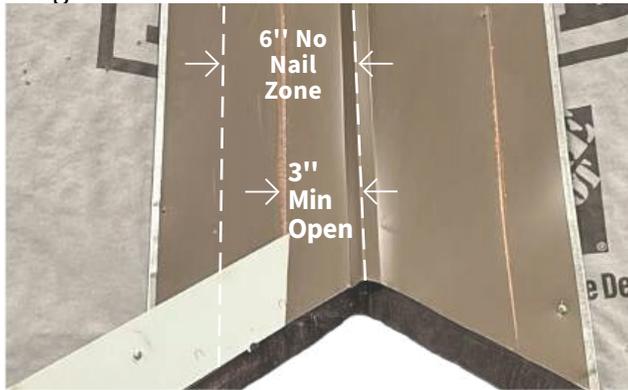
# OPEN VALLEY Installation Guide

## Step 1

Measure and mark the required open clearance (**minimum 3"**) from the center of the valley.

Measure and mark the starter bracket, trim for proper angle. Do not nail within 6" of the center of the valley. Fasten the Starter Bracket at the eave.

Image 1



## Step 2

Fasten a flat clip horizontally, 2" from the top of the starter.

Cut the tile liner to fit the valley angle.

**IMPORTANT: Always cut the tile liner into 10-12 ft pieces to avoid expansion. Overlap ends 8-10".**

Image 2

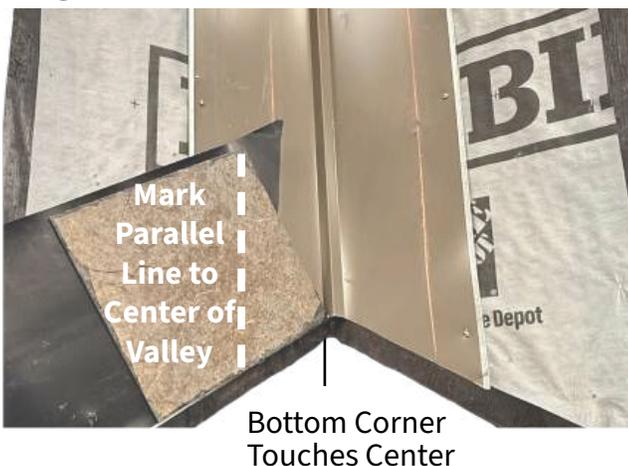


## Step 3

Place a full tile on the starter bracket. Make sure the bottom corner touches the valley center.

Use a straight edge to mark a line from the top corner, parallel to the valley as shown in below.

Image 3



## TIPS:

- Use a tile cutter for quick accurate cuts.
- Use the first cut piece as a template for the next rows.
- Valley Tiles: Always make sure the top edge is full width.

Image 4

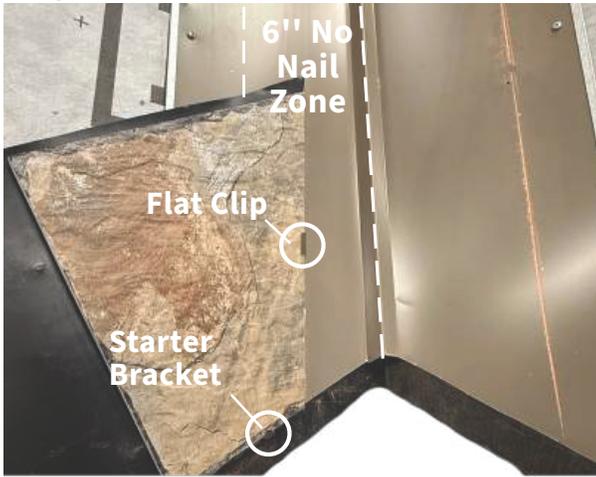


# OPEN VALLEY Installation Guide (cont.)

## Step 4:

Install the cut tile in the starter bracket bottom and flat clip on the cut edge.

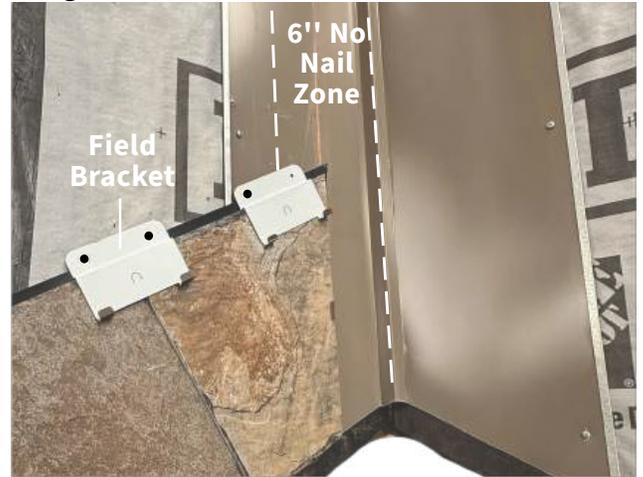
Image 5



## Step 5:

Center the field brackets on the tile joints and fasten them with two fasteners to secure the tile.

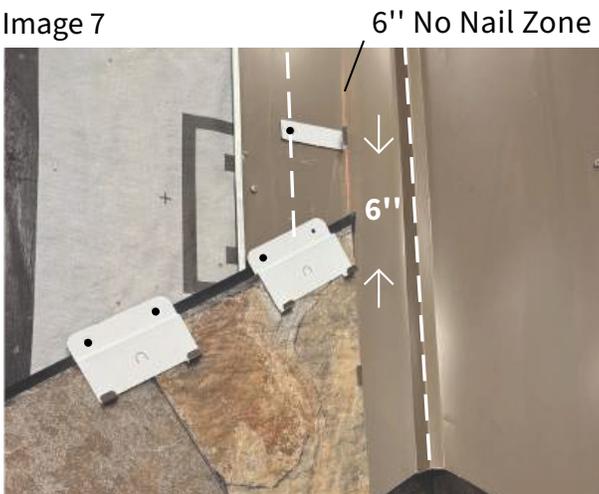
Image 6



## Step 6:

Insert a flat clip horizontally, 6" from the bottom of last placed field bracket.

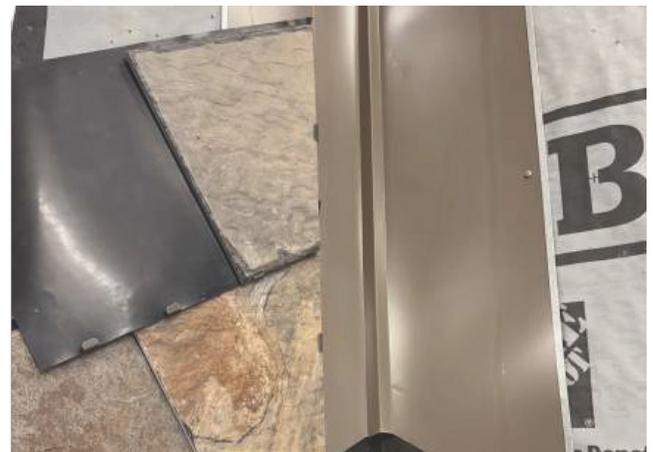
Image 7



## Step 7:

Install the tile liner over the field brackets. Install the tile followed by the field brackets.

Image 8



Field Bracket Pack



Flat Clip Pack



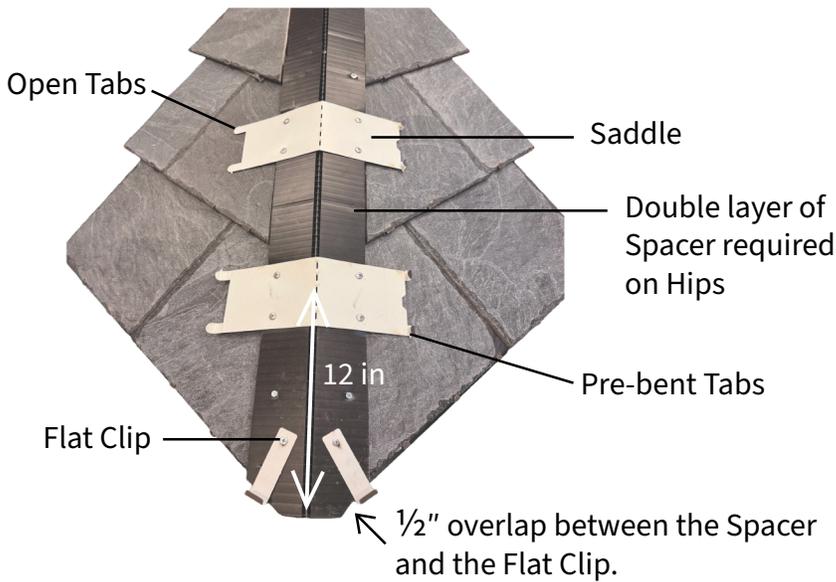
# HIP Installation Guide

## Step 1

Install the Flat Clip  $\frac{1}{2}$ " below the bottom edge of the Starter Bracket.

Install Saddles 12" on center from the end of the Hip.

**IMPORTANT:** The 12" spacing between Saddles ensures that the Trim Tile is centered on the Saddle.



## Step 2

Install the Tile Liner.

Install the Trim Tile.

Trim the excess Tile Liner.

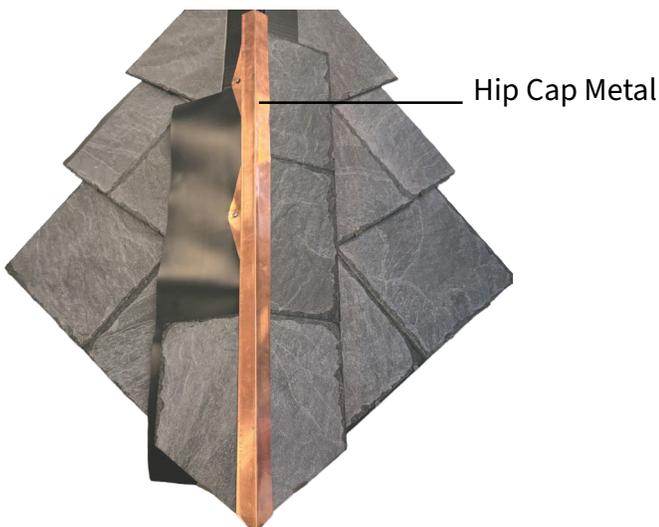
**IMPORTANT:** Cut the first Trim Tile to match the angle of the Field Tile on the Starter Bracket.



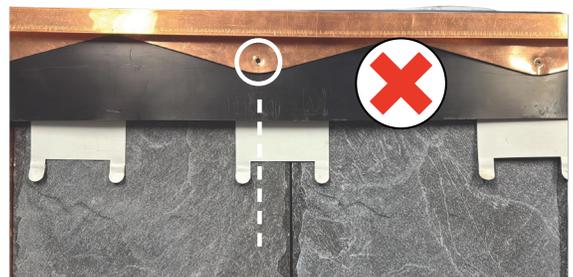
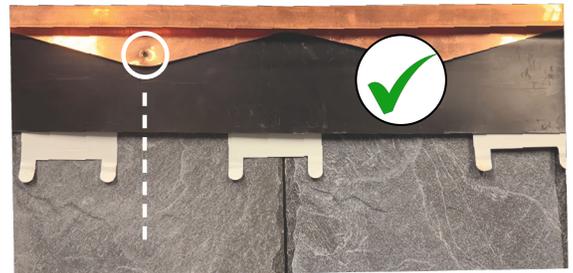
## Step 3

Fasten the Ridge Cap.

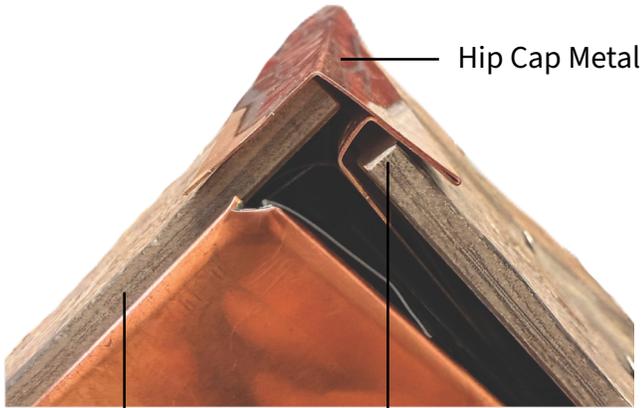
**IMPORTANT:** Make sure the side where the Hip Cap metal is fastened is aligned with the Open Tabs side of the Saddle.



**IMPORTANT:** Make sure to place the Saddles at the required spacing. This ensures that, when installing the Hip Cap metal, fasteners will not hit the Saddle.



# HIP Installation Guide (cont.)



Hip Cap Metal

First Trim Tile piece held in place by Hip Cap metal.

Install the opposite Trim Tile by sliding it into the slot on Hip Cap metal.

## Step 4

Trim the excess Tile Liner. Bend the tabs to secure the Trim Tile in place.



## Step 5

Repeat the process to finish the Hip.



## Saddle



Pre-bent tab

Open tab

## Flat Clip



# FIELD Installation Guide

## Step 1

Install the underlayment pursuant to local building code requirements.

If starting at rake edge metal, use a **6"** wide strip of "Ice and Water" to cover the rake metal fasteners leaving **1"** uncovered to form a gutter (*Image 1*).

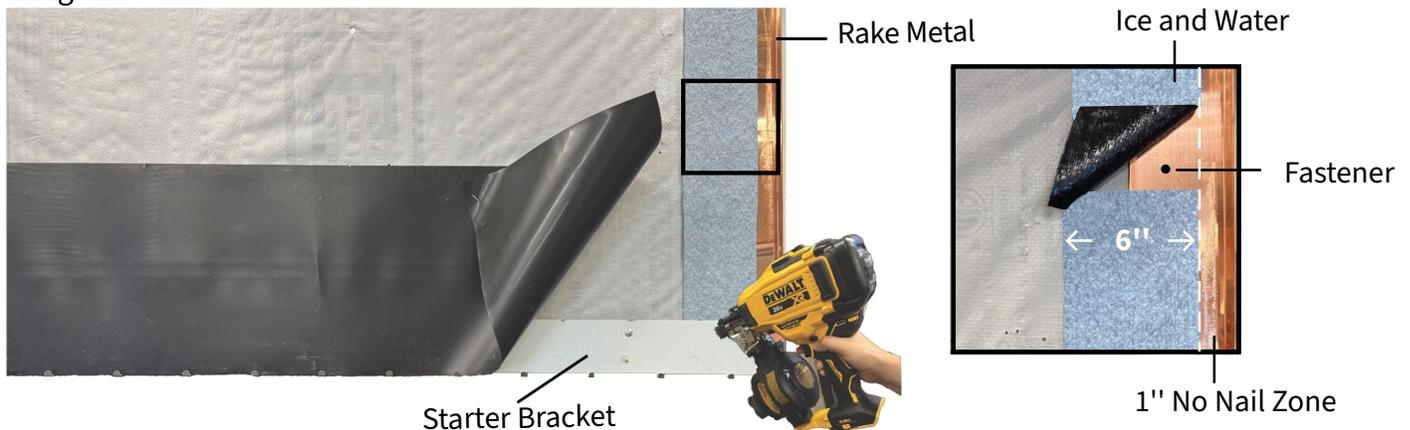
Fasten the starter bracket at the eave.

## Step 2

Install the tile liner. The Tile Liner is held in place by the field brackets.

**IMPORTANT: Always cut the Liner into in 10-12 ft lengths to reduce expansion. Overlap 8-10" at ends.**

Image 1



## Step 3

Install the tile on the starter bracket and fasten the field brackets at each joint between the Tiles (*Image 2*).

Fasten the brackets using two fasteners on each field bracket.

Image 2



# FIELD Installation Guide (cont.)

## Step 4

Second row, install a half-tile on the bracket to achieve a half-tile offset.

Install the remaining tiles and repeat the process of fastening the field brackets at each joint between the Tiles (*Image 3*).

Use two fasteners on each bracket.

Image 3



## Step 5

Repeat the process.

Install the Tile.

Fasten field brackets.

Install Tile Liner.

Install Tile...

Image 4



# CLOSED VALLEY Installation Guide

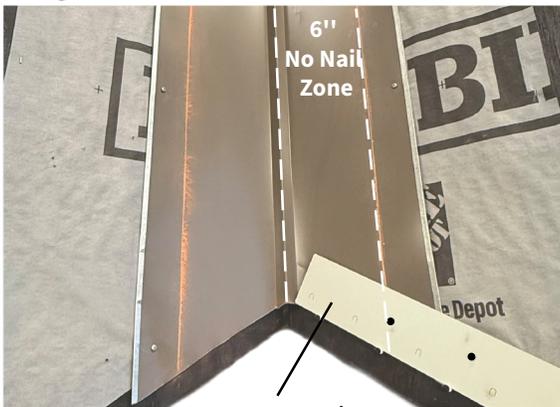
## Step 1

Measure and mark a "No Nail Zone" 6" from the center of valley.

Install and fasten the starter bracket at the valley.

**IMPORTANT: DO NOT nail within 6 inches of the center of the valley.**

Image 1



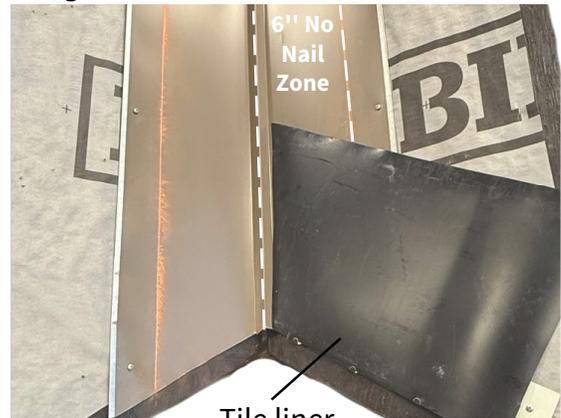
Starter Bracket

## Step 2

Trim and install the tile liner. The tile liner is held in place with the field brackets.

**IMPORTANT: Always cut the tile liner into 10-12 ft pieces to avoid expansion. Overlap ends 8-10 inches.**

Image 2



Tile liner

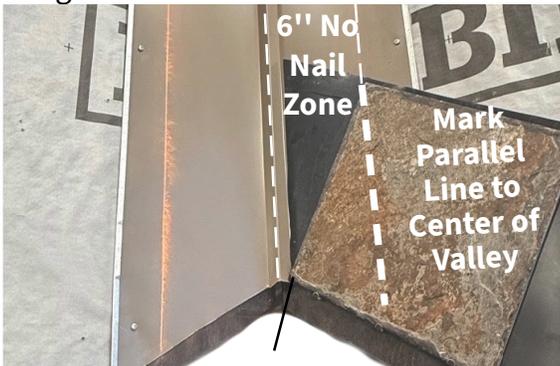
## Step 3

Place a full tile on the starter bracket.

Make sure the bottom corner touches the center of the valley metal.

Use a straight edge to mark a line from the top corner, parallel to the valley center (*Image 3*).

Image 3



Bottom Corner Touches Center.

## IMPORTANT:

- Use a tile cutter for quick accurate cuts.
- Use the first cut piece as a template for the next rows.
- Valley Tiles: Always make sure the top edge is full width.

Image 4



Simple Tile Cutter

Full Width At Top



# CLOSED VALLEY Installation Guide (cont.)

## Step 4

Install the cut tile next to the valley center (*Image 5*).

**IMPORTANT: The adjoining the tile in the row may need to be trimmed to ensure a full tile is used at the valley. "feather" or spread the change in size over 2-3 tiles.**

Image 5

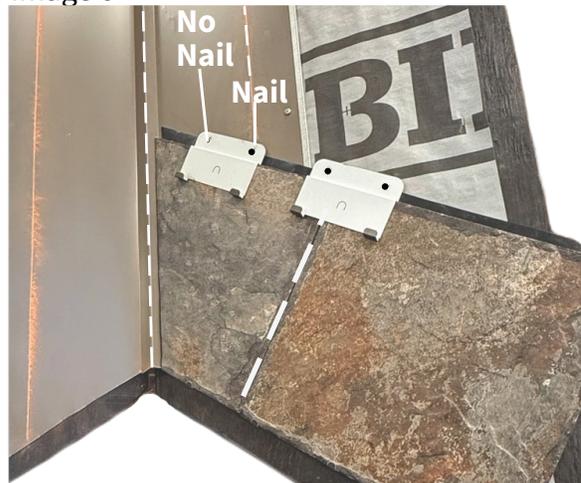


## Step 5

Install the remaining tiles and field brackets at the junctions of each tile (*Image 6*).

Fasten each field bracket with two fasteners. At the valley only one fastener is required to avoid no nail zone.

Image 6

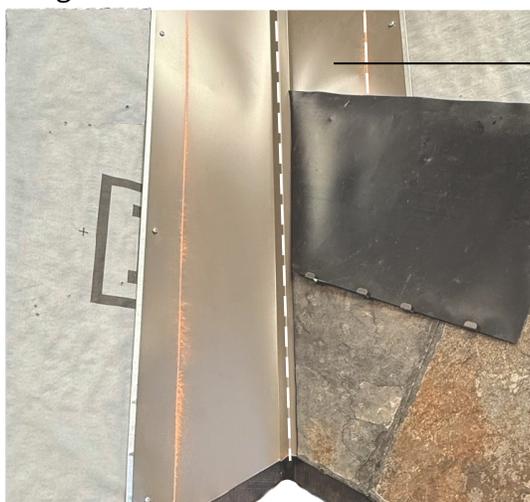


## Step 6

Repeat the previous procedure. Install the tile liner (*Image 7*).

Install the tile and secure it with the field brackets.

Image 7



6" No Nail Zone

**IMPORTANT: Never nail within 6 inches of the center of the valley.**