

INSTALLATION MANUAL



**5759 Cabot Trail Road
North East Margaree, Nova Scotia
(902) 248-2789**

WWW.BMLMETALS.COM

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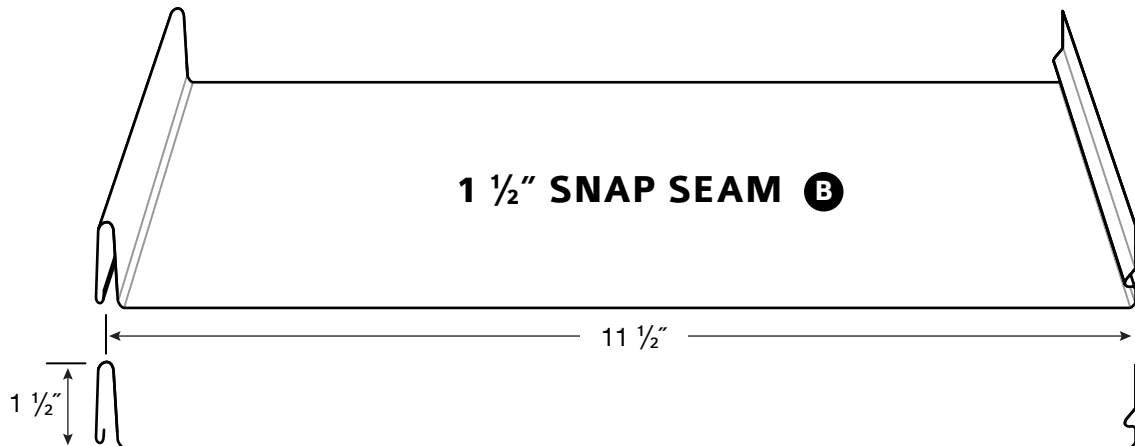
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BML METALS STEEL ROOF PANELS

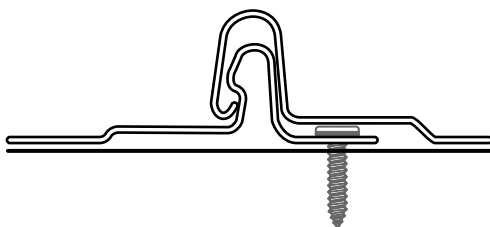
BML Metals roofing panels are pre-painted with Galvalume™ coating. Galvalume™ is 55% aluminum and 45% zinc alloy which makes it highly corrosion resistant. Combining Galvalume™ sheet and modern high-performance paint systems results in durable, versatile, colorful, and economical building products.

The **1” and 1.5” Nail Strip Snap Lock** roofing panels come in 26 gauge and are the fastest panels in the market for installation. They apply over open purlin or solid substrate and are known for limited thermal movement. Snap lock standing seam is created by “snapping” on side of a metal roofing panel onto another so that they hook together and are fastened to the roof by a nailing flange then hidden by the next sheet, no special tools needed for installation.

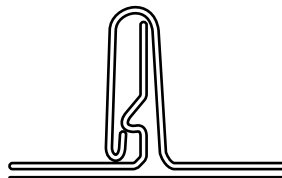
The **1.5” Snap Seam** roofing panels offer you a raised seam and low slope to your architectural and structural sheet metal panels. This panel offers clip fastening designed for thermal expansion and contraction. It is applied over open purlins or solid substrate and comes 26 gauge. This panel not only offers you a roof, it also can be used on walls.



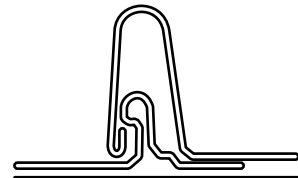
A



B



C



Note: Panels come with stiffener ribs unless otherwise stated.

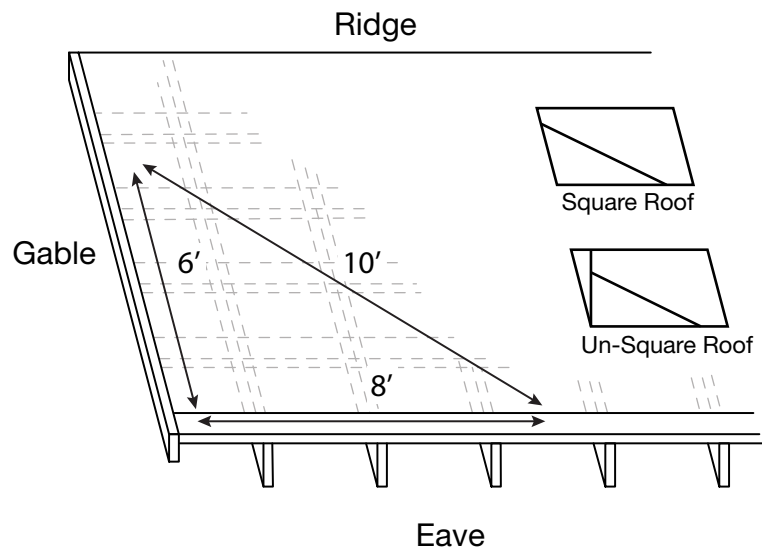
STORAGE

Stored metal panels are very vulnerable to damage due to prolonged exposure to moisture, condensation and wind driven rain.

- When you receive your metal roofing, remove plastic wrapping to help avoid any moisture/condensation.
- Installing roofing panels shortly after delivery would avoid storage times.
- If storing is required for an extended period of time, the most ideal location is under a roof in a cool, dry, well-ventilated area.
- If storage outdoors is unavoidable, the following 4 points are recommended:
 1. Use a good quality cover that is not plastic. Loosely cover stacks and make sure they are secured to prevent the wind blowing them off.
 2. Make sure the bundles are tilted for drainage.
 3. Keep off the ground by inserting blocks under bundles for ventilation and drainage.
 4. Metal panels can be damaged when exposed to other materials. Store away from anything that could contaminate the metal panels surface.

PREPARATION

- Prepare work site and gather all tools and equipment required
- Next check to see if the roof is square. From the corner where the eave and gable meet, measure eight feet along the eave and mark. Next measure six feet up the gable edge and mark. Measure the distance between the two marks. If it measures exactly ten feet, you have a square roof at that corner. Next check all roof corners using this method.
- The 1" Nail Strip Snap Lock covers $11 \frac{7}{8}$ ", 1.5" Nail Strip Snap Lock covers $10 \frac{3}{4}$ ", and the 1.5 Snap Seam covers 11.5" in width. It's important to check the total width of installed panels as you proceed along. Avoid stretching the panel, this might cause local buckling of the material.
- Check the deflection of your roof before installing the panels. Prepare the roof accordingly before installing the metal panels.



Note: If the roof is not square, the metal panel along the gable can be trimmed along its length to match. A gable flashing should then be used to reduce the visual appearance of the trimmed panel.

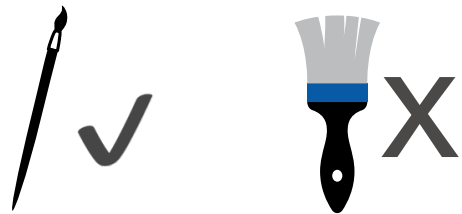
TOOLS AND EQUIPMENT

- Electric screw gun with adjustable torque.
- Snips or nibblers.
- It is not recommended to use a high speed disc cutter. If this tool must be used, only cut one sheet at a time, painted surface facing down. Do this away from other sheets because the filings will damage the paint finish. When finished cutting, wipe off all metal filing from the surface of the panels. Do not burn clear coat.
- Chalk line (make sure the chalk can be easily removed from the panels)
- Tape measure
- Working gloves
- Proper eye protection
- String
- Rubber Mallet
- Carpenters apron
- Nut setters (should be replaced for every 3000 screws)

TOUCH UP PAINT

- If scratches occur, use a fine detail brush to cover only the scratch using a small amount of paint. For multiple scratches or major paint damage, the panels affected should be replaced immediately.

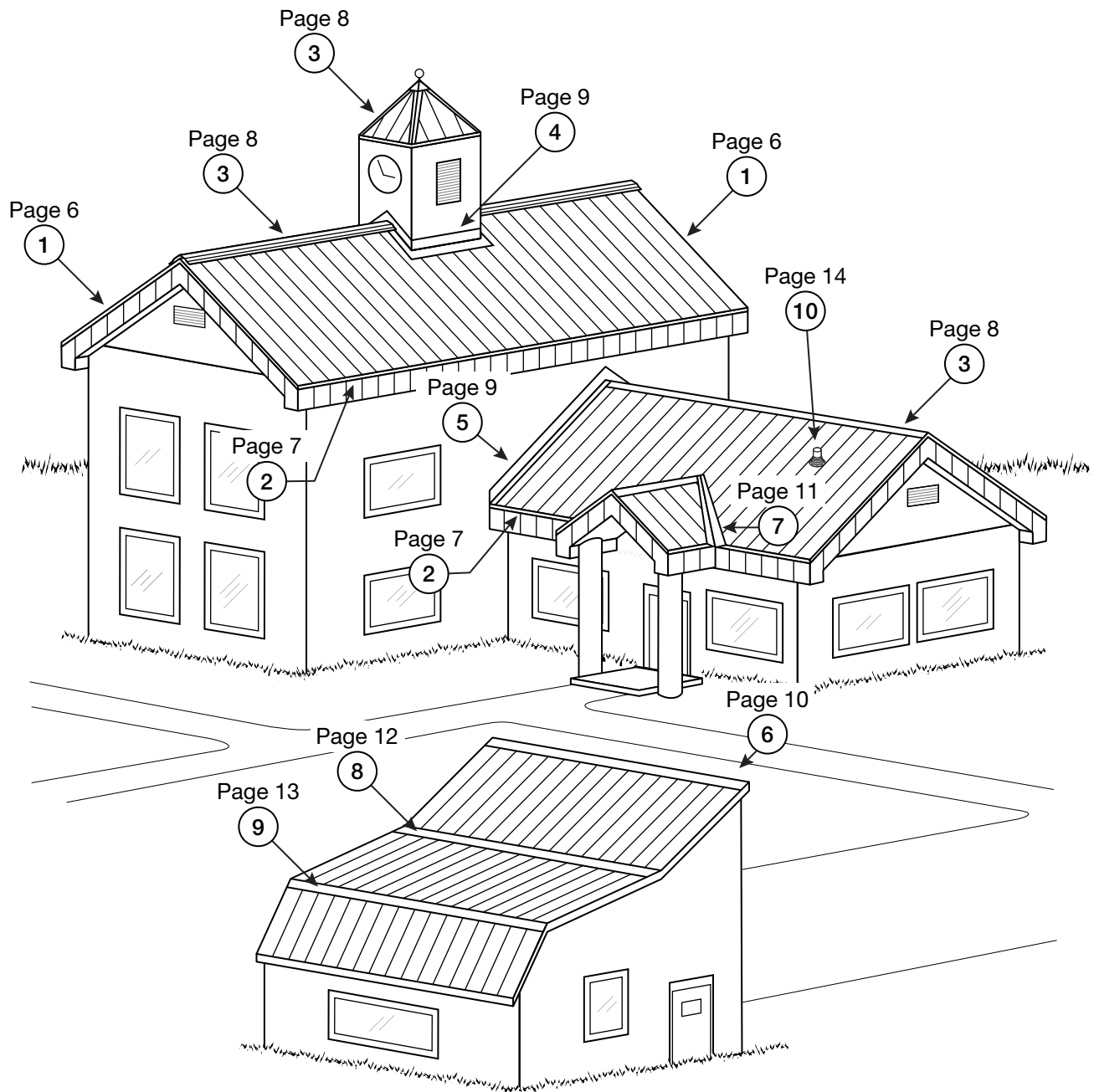
Note: It's possible the shine of the touch up paint may show a slight difference from the original pre-painted steel.



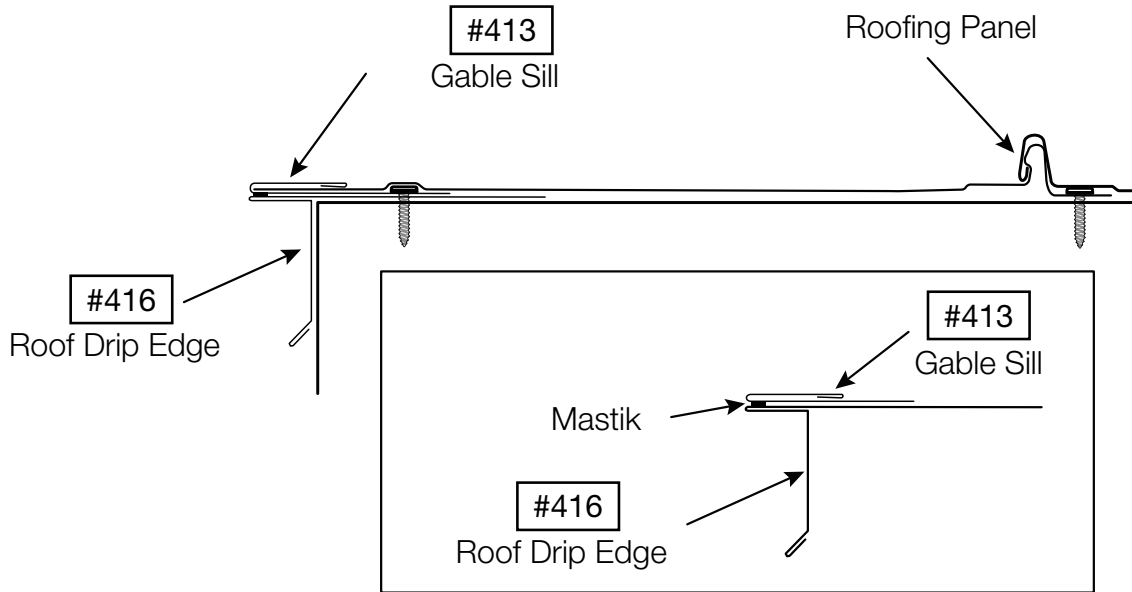
IMPORTANT INFORMATION

- When installing **BML Metals** panels, do not to over torque the flat head screws. This will allow the panel to expand and contract freely.
- Pressure treated lumber should never be in direct contact with **BML Metals** panels.
- It's important when ordering pre-painted panels, to order all items of the same colour at the same time. This will avoid possible colour differences between batches.
- Make sure to check all material against the shipping list as soon as it is received. Any damages or shortage of material should be noted and reported to the driver or to our offices straight away.
- *Failing to adhere to the above instructions will result in total refusal for any claim to BML Metals.*

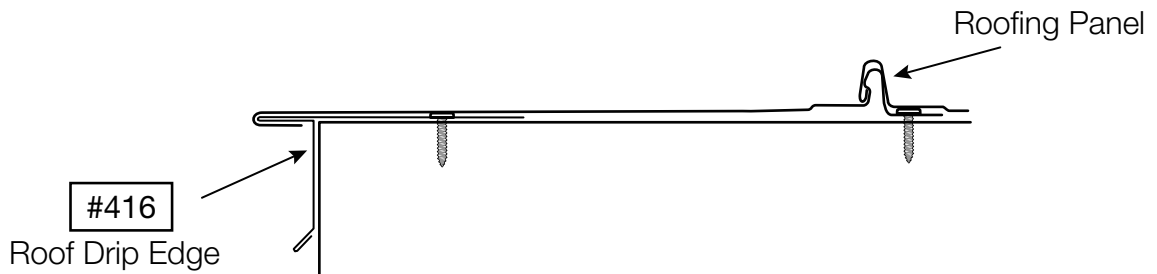
DETAILS OVERVIEW



1.1 GABLE END DETAIL (HIDDEN FASTENERS) (FIRST AND LAST PANEL)

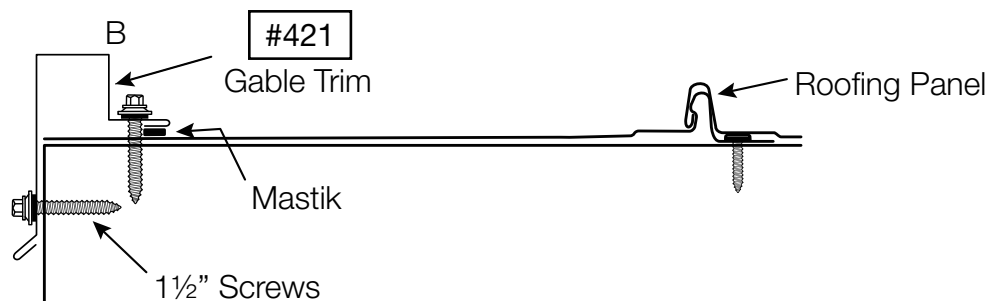


1.2 GABLE END DETAIL (HIDDEN FASTENERS) (FIRST AND LAST PANEL)



1.3 GABLE END DETAIL (EXPOSED FASTENERS) (FIRST AND LAST PANEL)

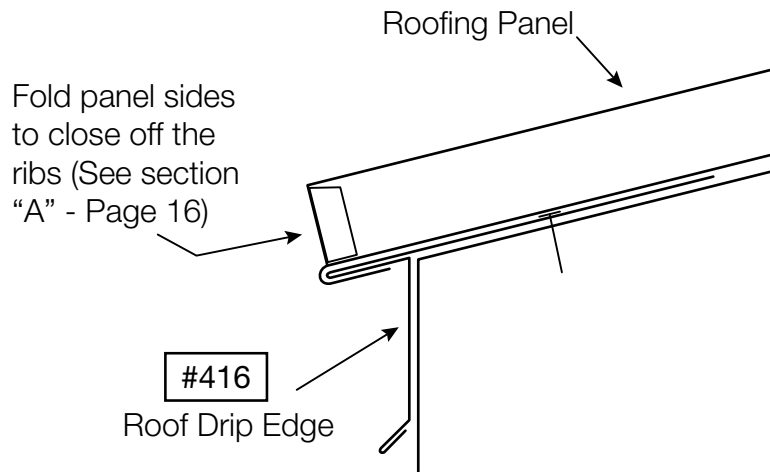
- Install the gable trim #421 with Mastik over the panel and fasten to secure. Dimensions for the gable trim #421 should be provided by the installer.



2.1 EAVE DETAIL (HIDDEN FASTENERS)

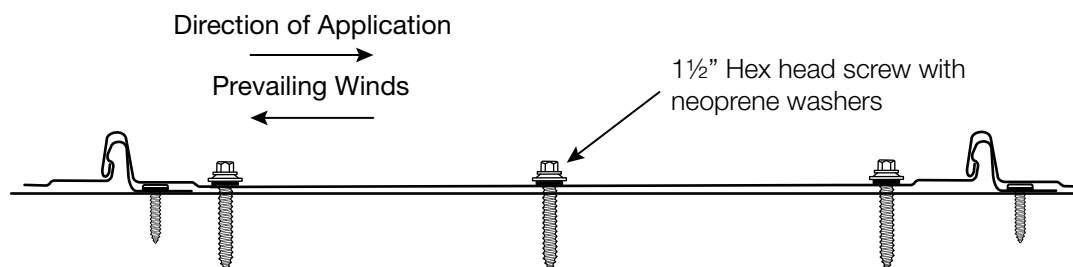
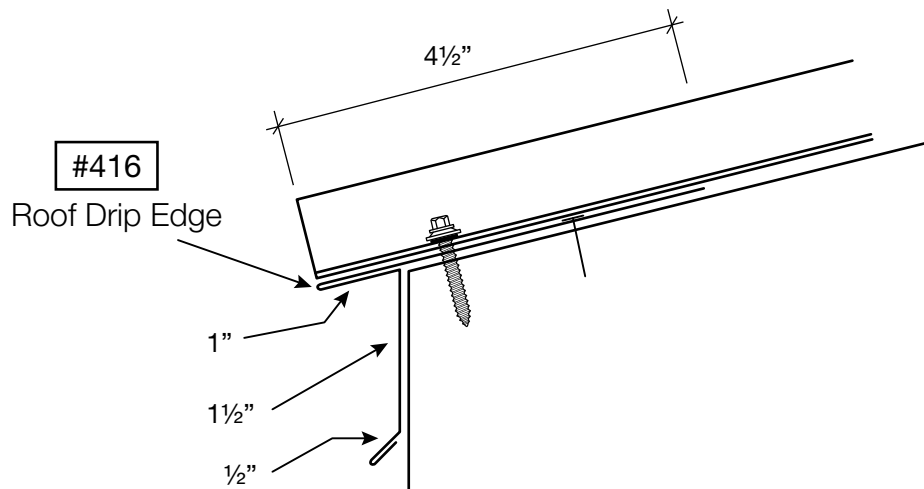
- Attach the folded edge* of the panel to the roof drip edge.

* (Folded edge of the panel done on site by installer.)

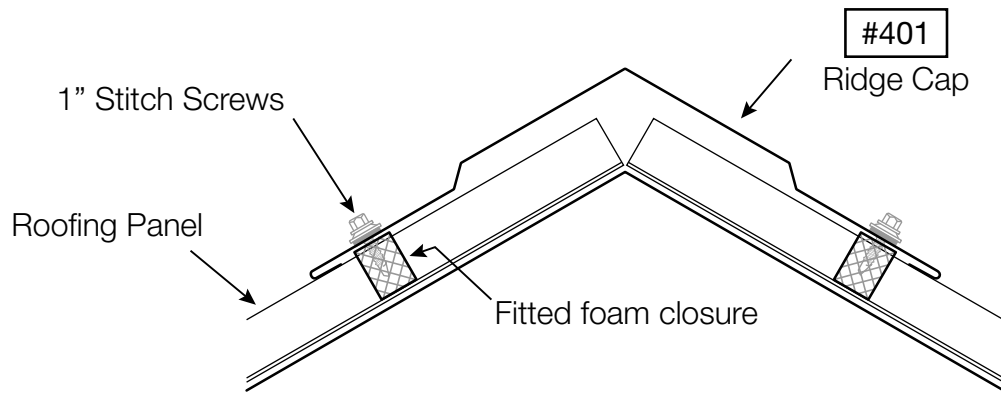


2.2 EAVE DETAIL (EXPOSED FASTENERS)

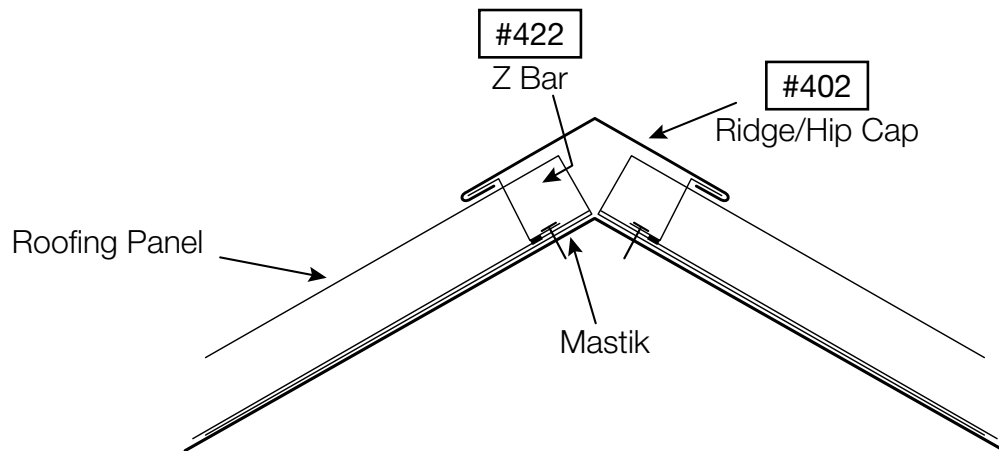
- Install the panels on top of the roof drip edge #416. Fasten the roofing panel along the eave. (Use 1 screw per panel).



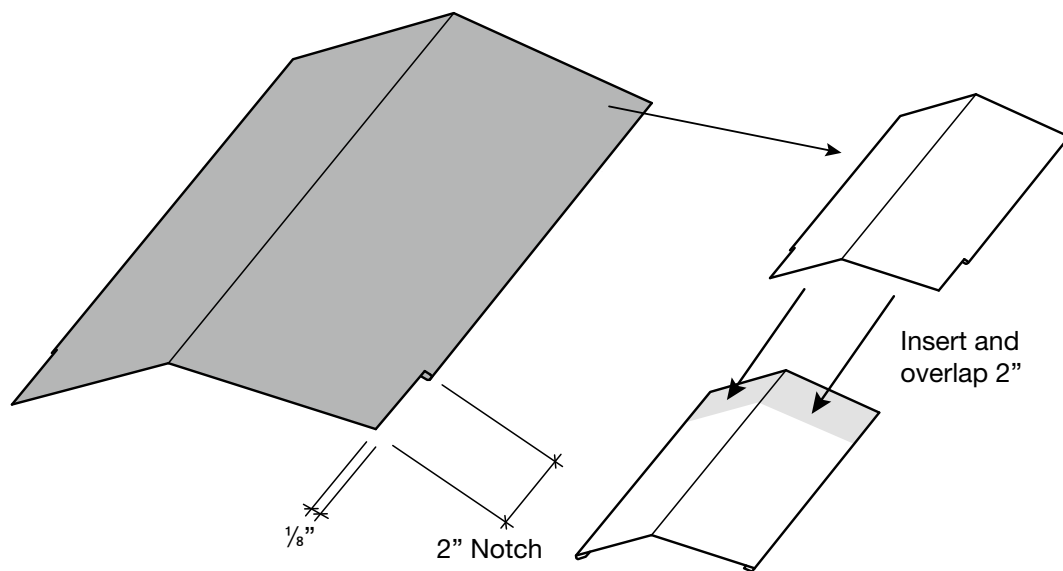
3.1 RIDGE DETAIL (EXPOSED FASTENERS)



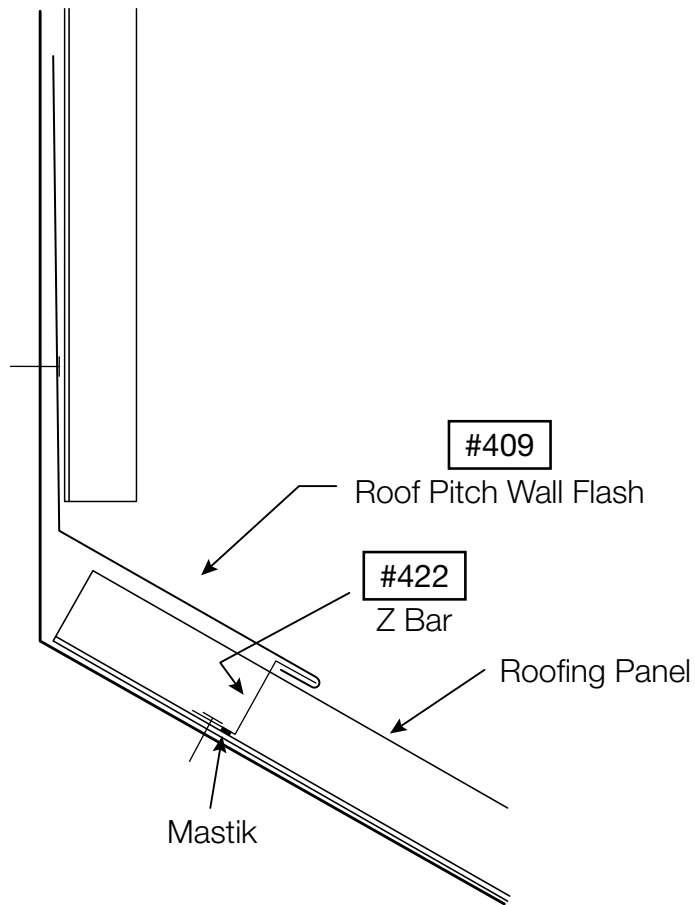
3.2 RIDGE DETAIL (HIDDEN FASTENERS)



3.3 RIDGE / HIP CAP DETAIL

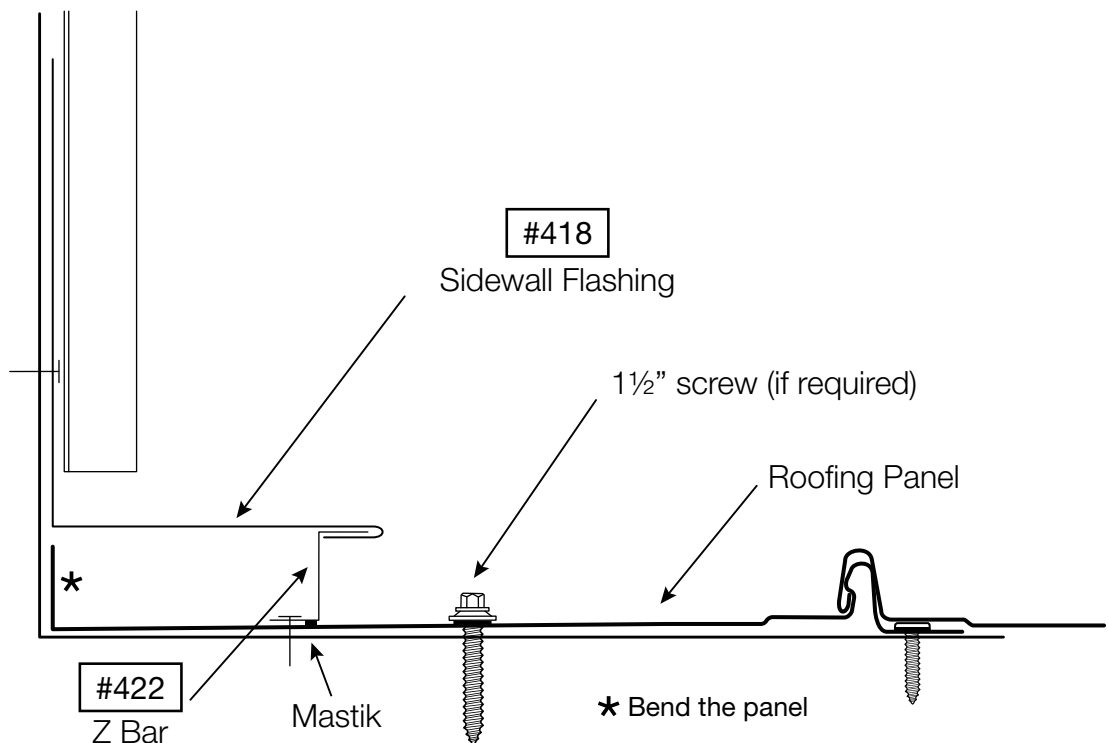


4 WALL & ROOF DETAIL (SLOPED)

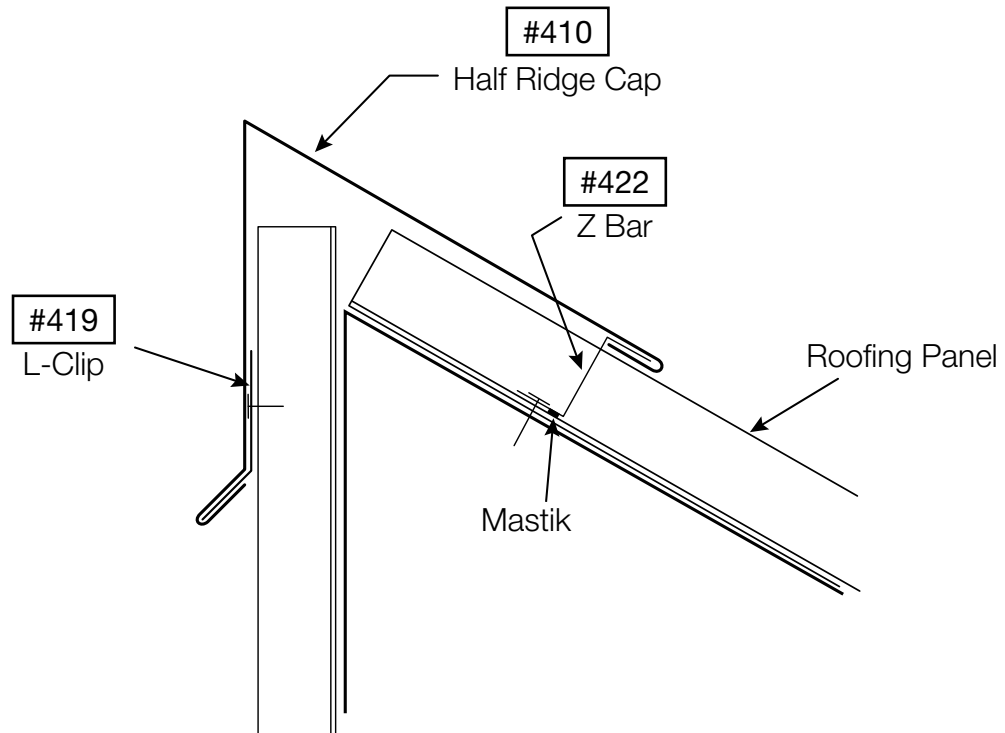


5 END WALL & ROOF DETAIL (90°)

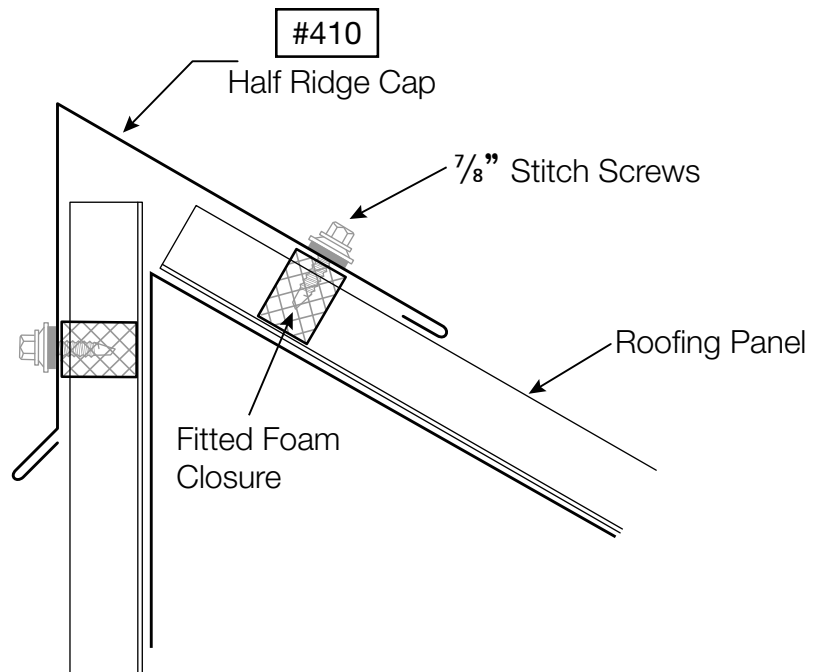
- Install the sidewall flashing. * Bend the roofing panel 90°. Insert the panel inside the sidewall flashing and fasten.



**6.1 HALF RIDGE DETAIL (HIDDEN FASTENERS)
(SHED ROOF)**



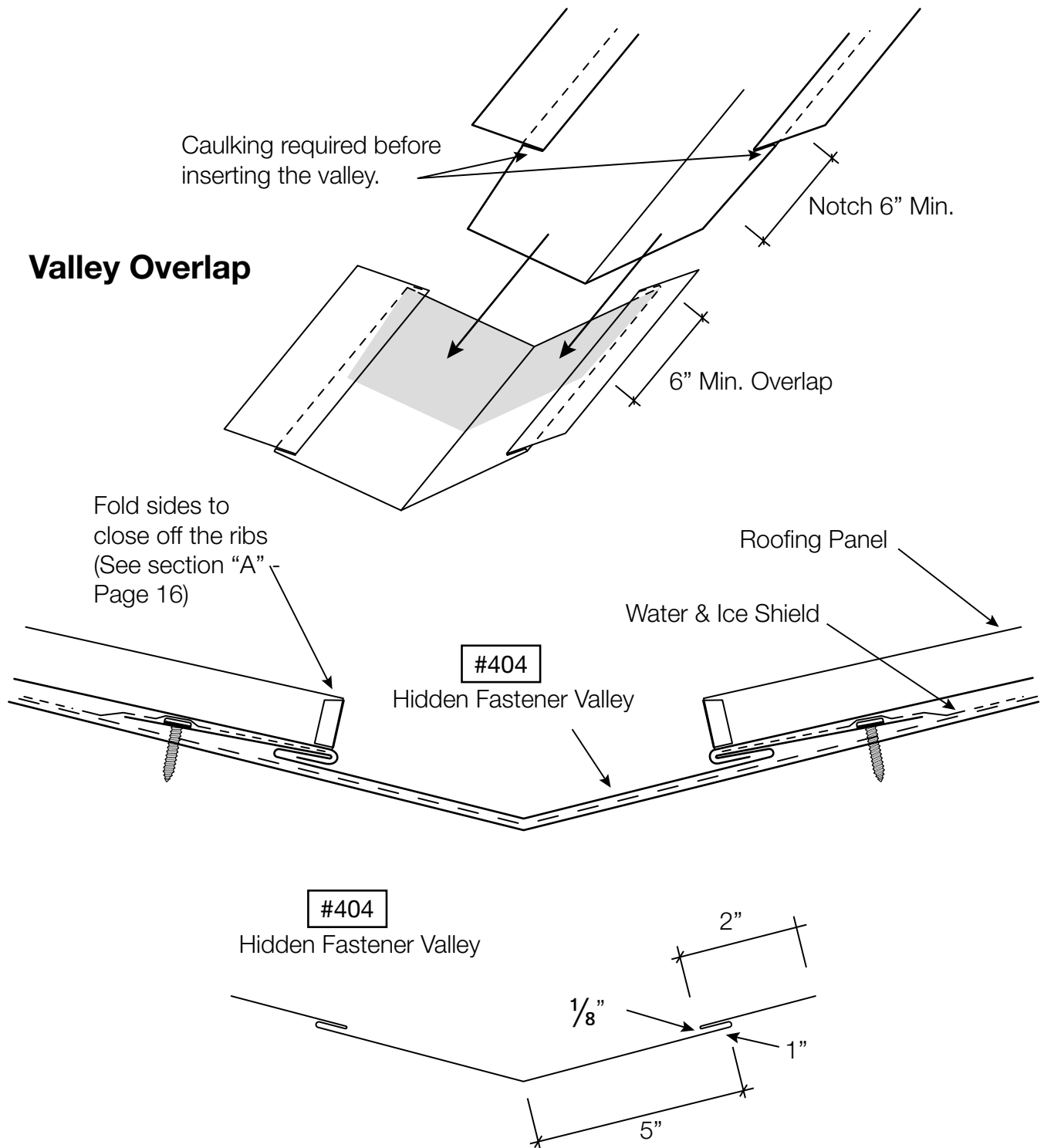
**6.2 HALF RIDGE DETAIL (EXPOSED FASTENERS)
(SHED ROOF)**



7 VALLEY DETAIL (HIDDEN FASTENER)

- Attach the folded edge of the panel to the valley.

*Folded edge to be done on site by the installer.

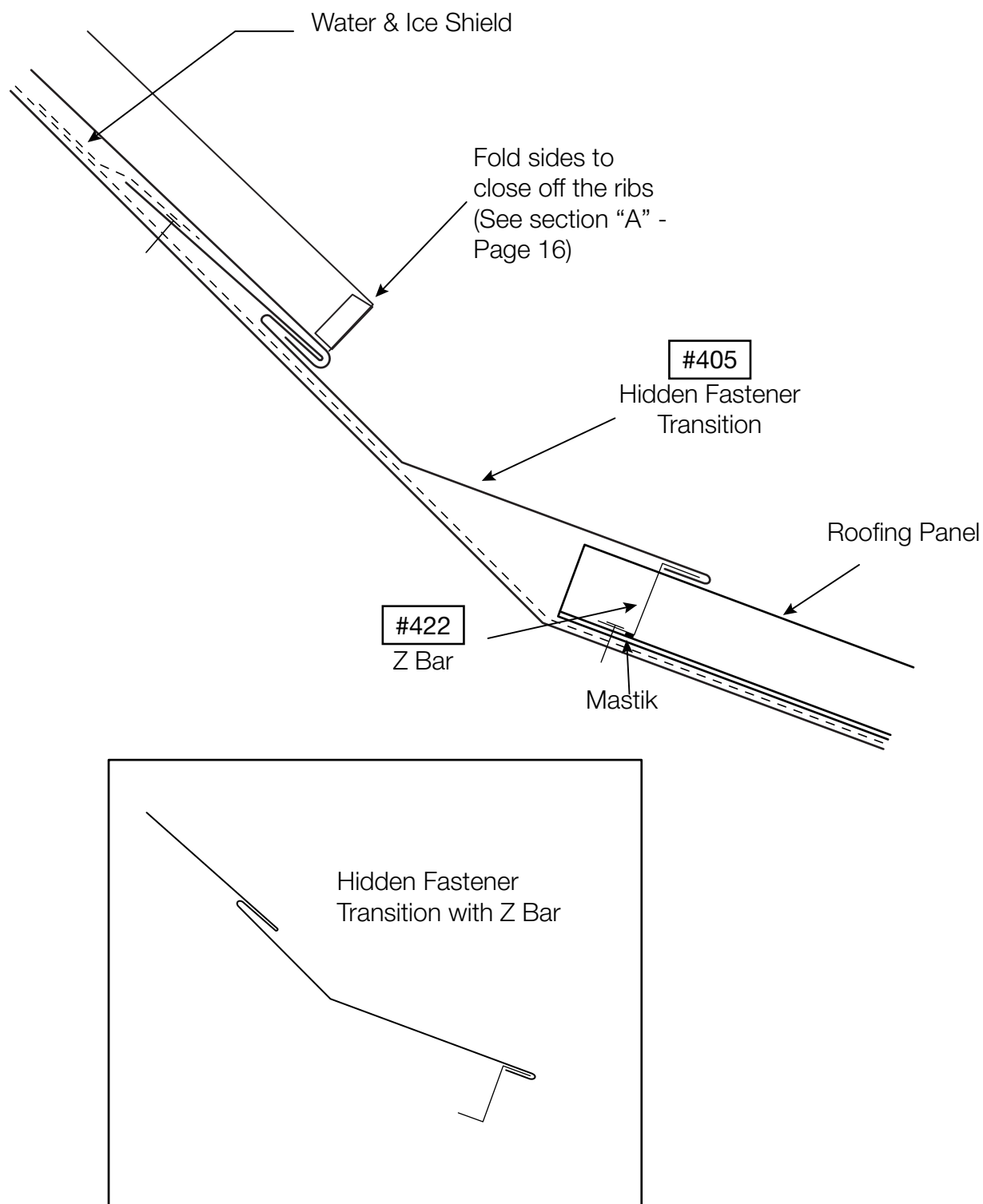


8 TRANSITION DETAIL (HIGH TO LOW PITCH)

- Attach the folded edge of the panel to the transition flashing.

* Folded edge to be done on site by the installer.

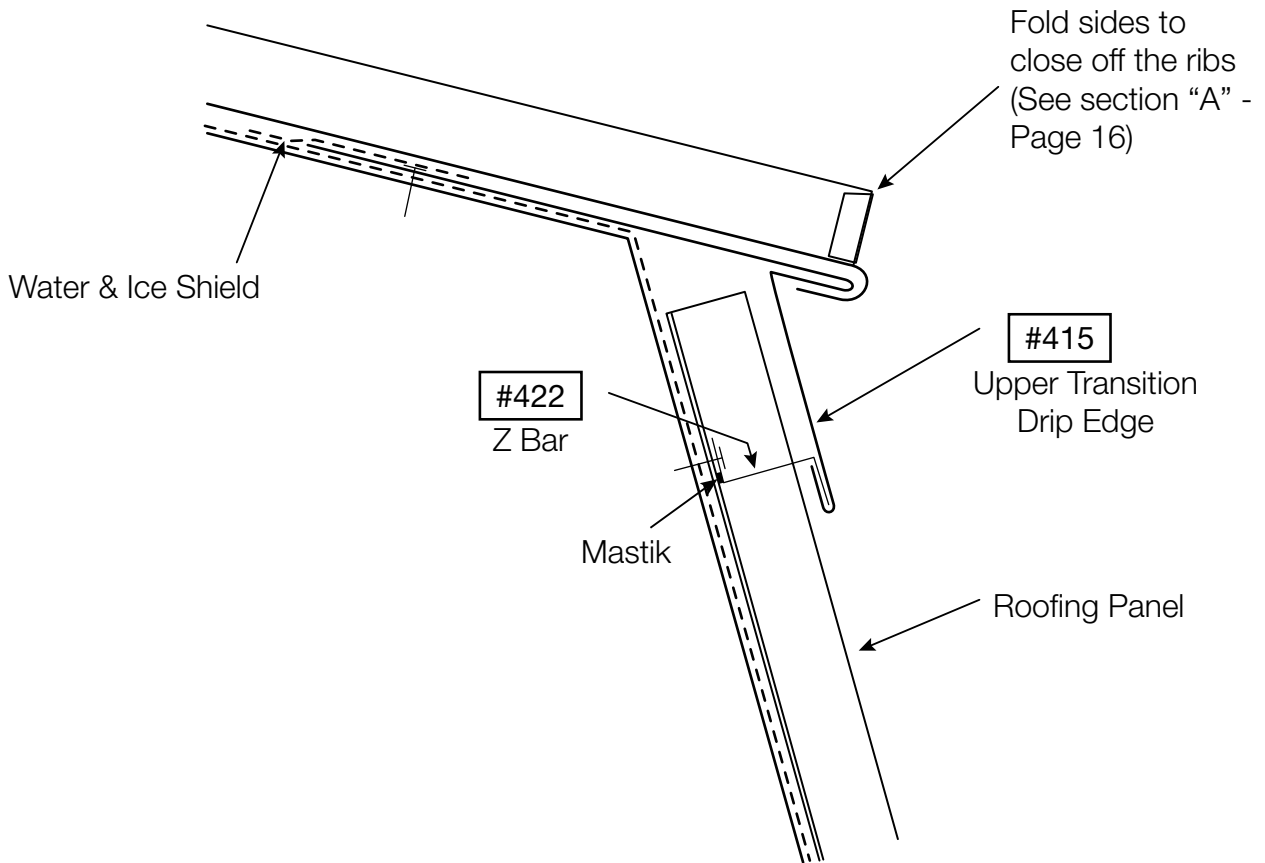
Dimensions for the hidden fastener transition should be provided by the installer.



9 TRANSITION DETAIL (LOW TO HIGH PITCH)

- Attach the folded edge of the panel to the upper transition drip edge.

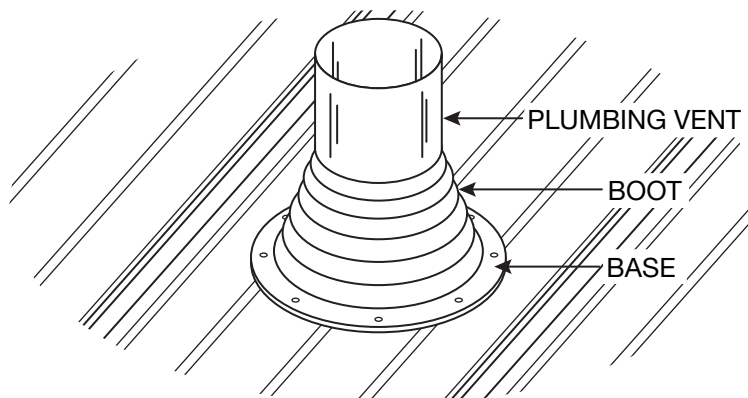
*Folded edge to be done on site by the installer.



Option:
Stitch screw option available.

10.1 PLUMBING VENT DETAIL

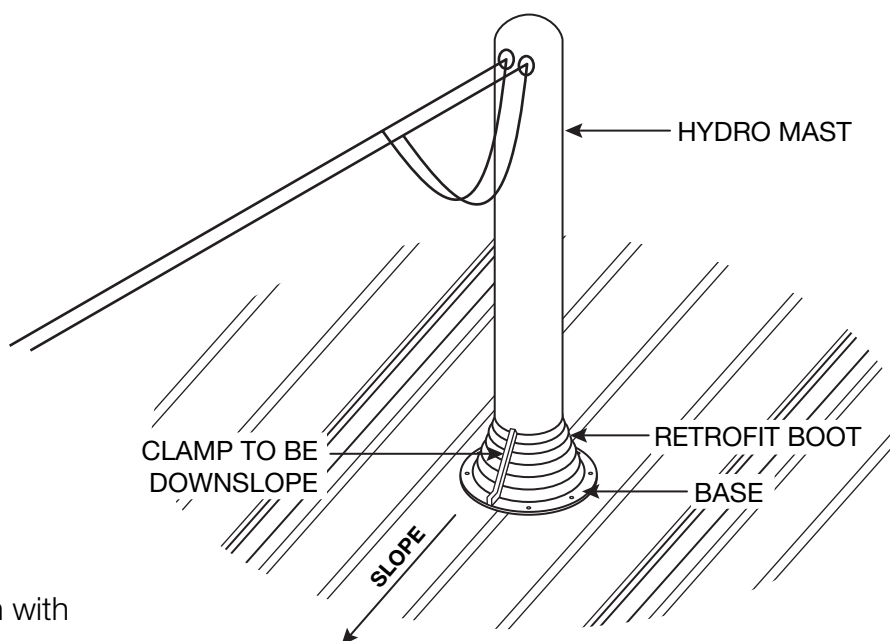
- Once roofing panels have been installed, cut the boot to the correct diameter and slide it over the plumbing pipe. Secure the rubber boot with a sealant between the base and the roofing, then fasten.



Note:
Image shown with optional stiffeners.

10.2 ELECTRICAL SERVICE MAST DETAIL

- Once the roofing panels have been installed, cut the boot to the correct diameter and install around the mast. Clamp the boot together and secure with sealant between the base and the roofing, then fasten.

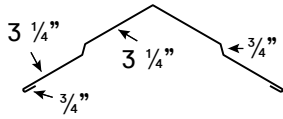


Note:
Image shown with optional stiffeners.

TRIM OPTIONS

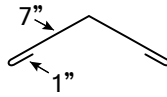
ALL TRIMS ARE SOLD IN 10' LENGTHS.

#401



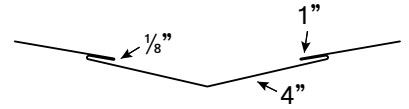
Ridge cap

#402



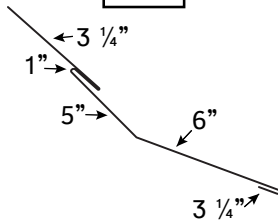
Ridge / Hip cap

#404



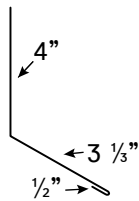
Hidden Fastener Valley

#405



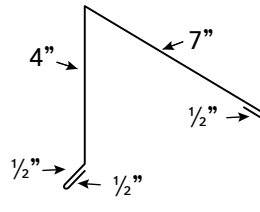
Hidden Fastener Transition

#409



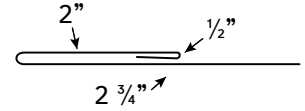
Roof Pitch Wall Flash

#410



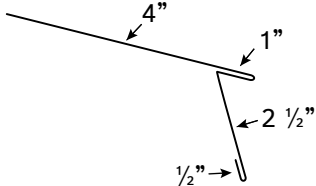
Half Ridge Cap

#413



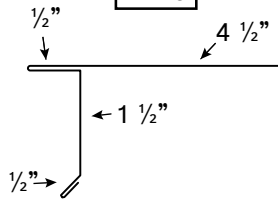
Gable sill

#415



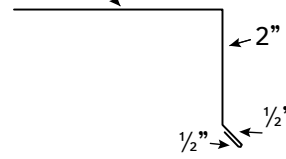
Upper Transition Drip Edge

#416



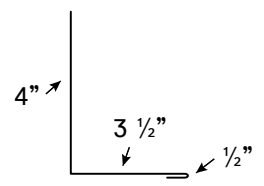
Roof Drip Edge

#417



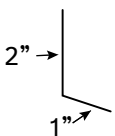
Eve Starter

#418



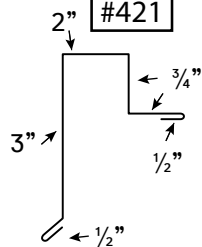
Sidewall

#419



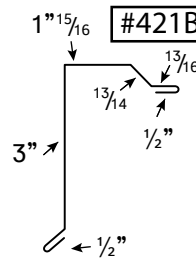
L-Clip

#421



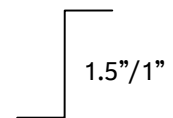
Gable Trim

#421B



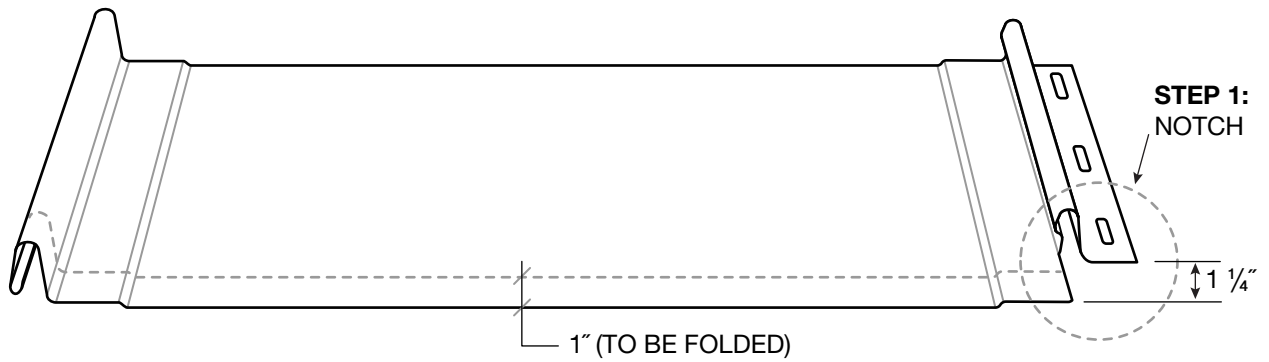
Gable Trim

#422

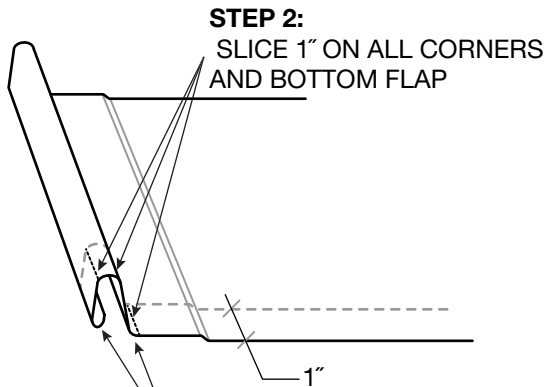


Z Bar

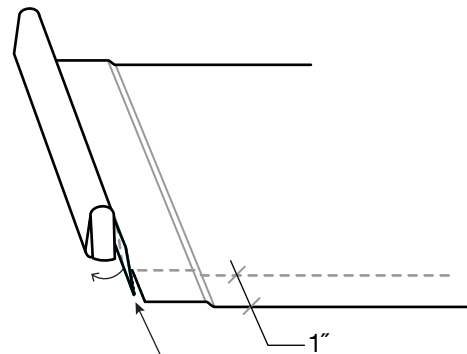
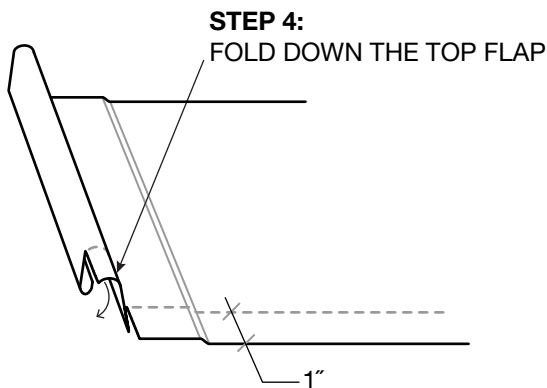
SECTION "A" EAVE DETAIL (FOLDED EDGE)



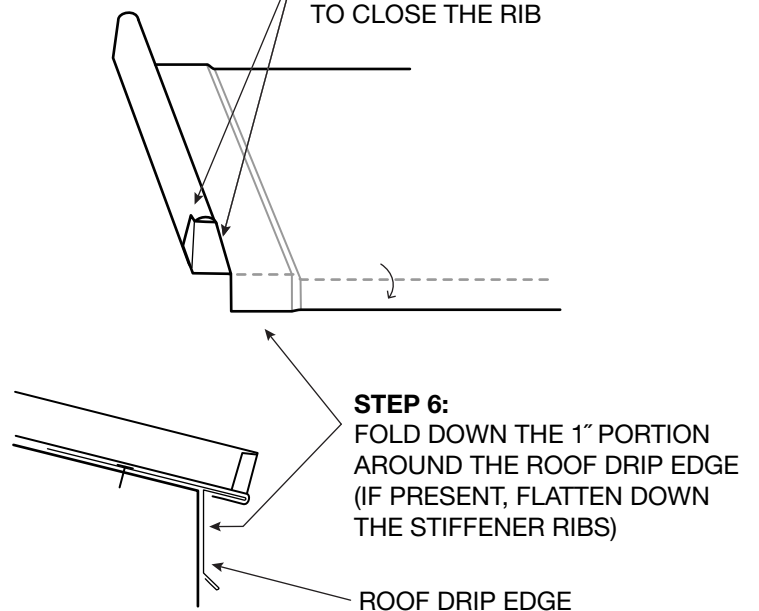
Note:
Images of panels shown
without stiffeners.



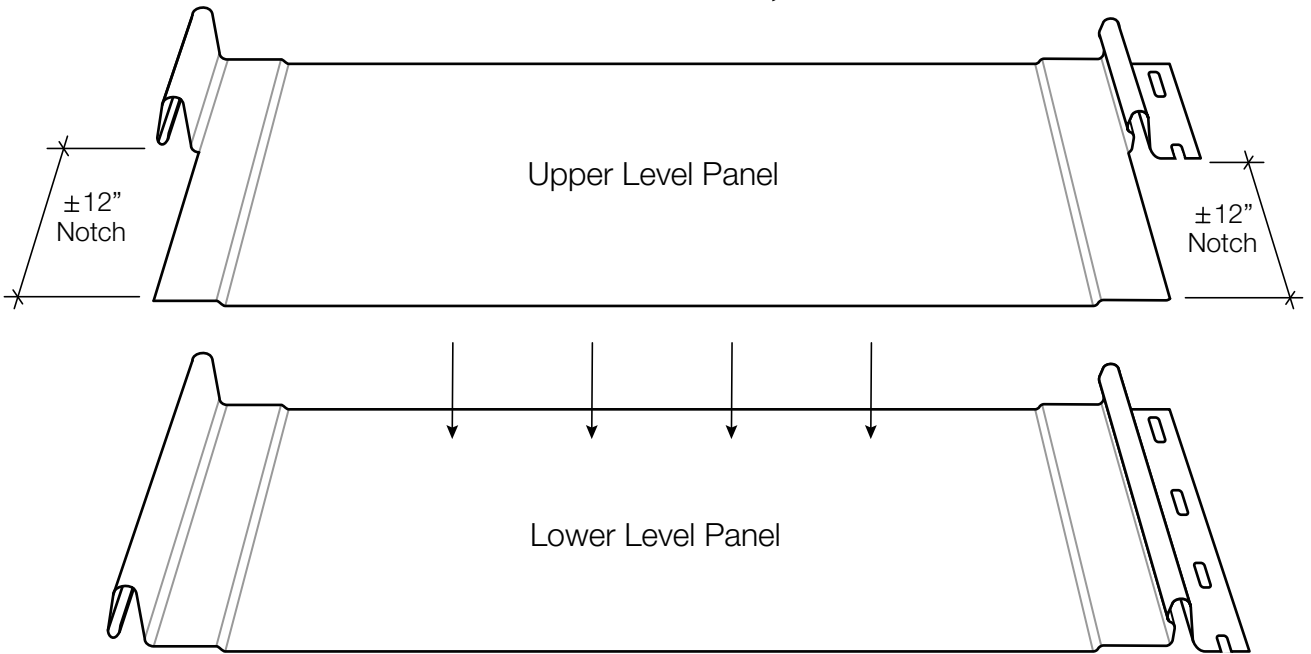
STEP 3:
CUT AND DISCARD
OUTER AND BOTTOM FLAPS



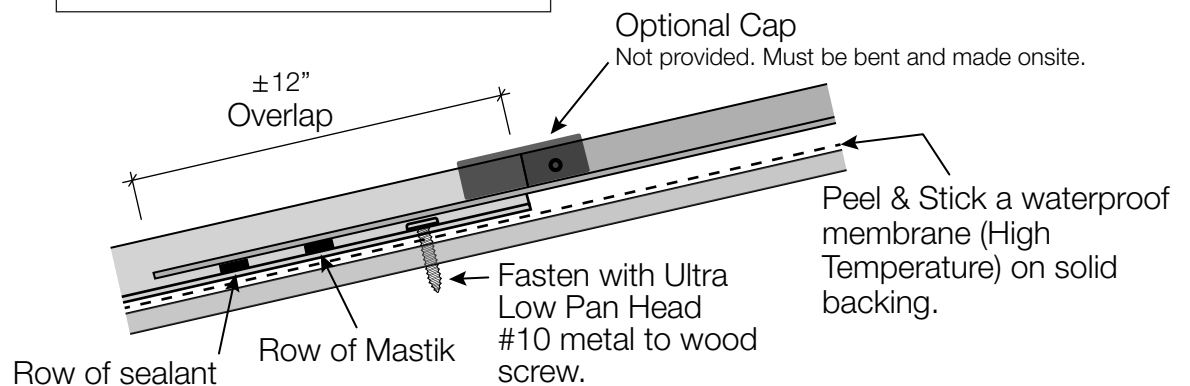
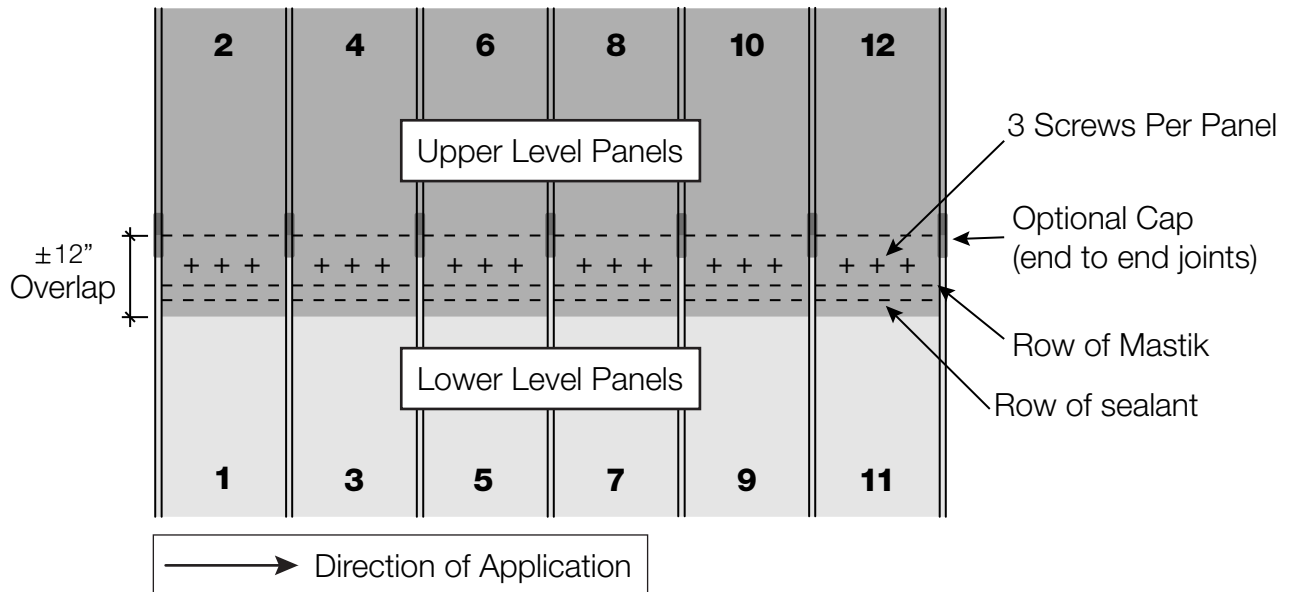
STEP 5:
FOLD REMAINING FLAP OVER
TOP FLAP THEN WRAP AROUND
TO CLOSE THE RIB



SECTION "B" ROOFING PANEL OVERLAP, END TO END

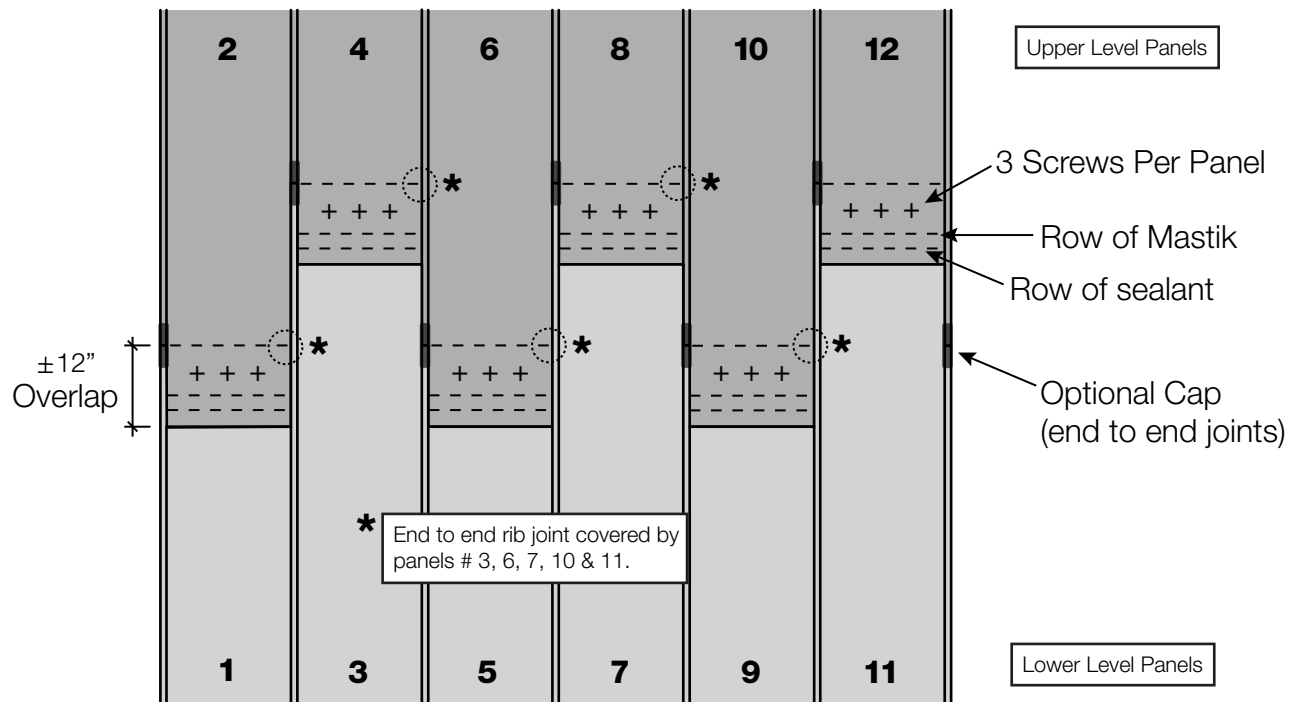
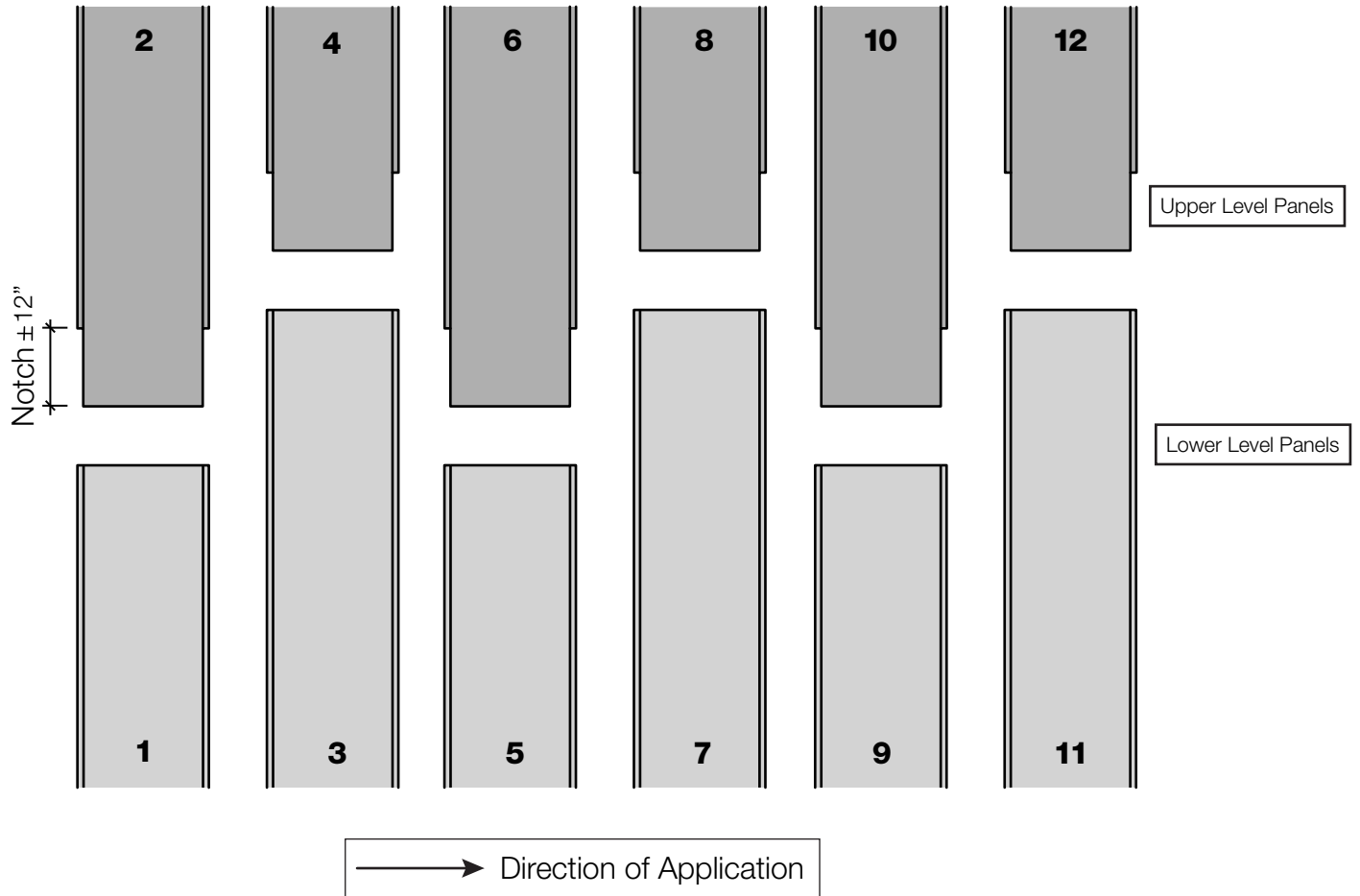


ALIGNED JOINTS



SECTION "B" CONTINUED ROOFING PANEL OVERLAP, END TO END

STAGGERED JOINTS





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