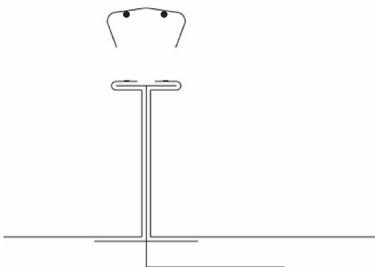
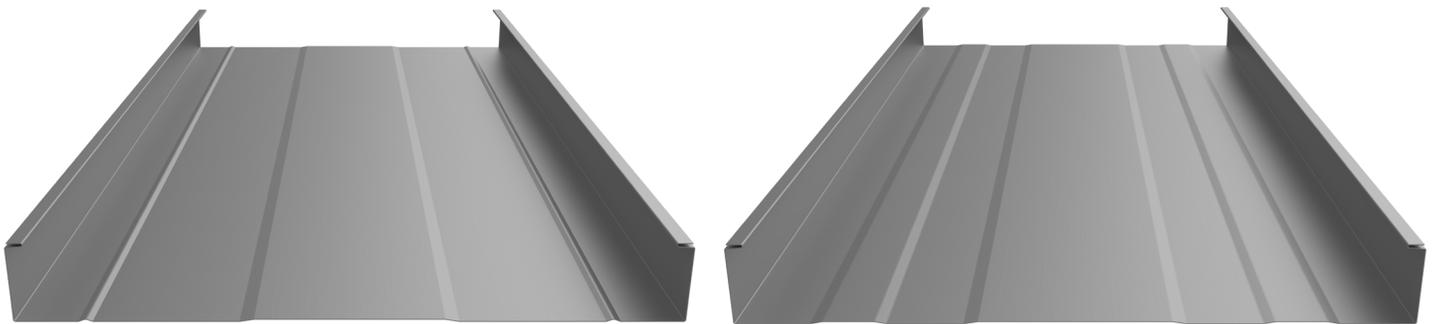
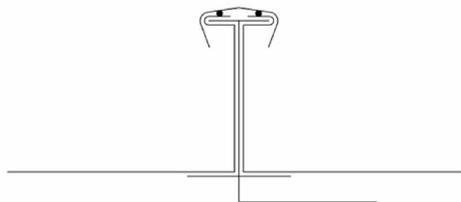


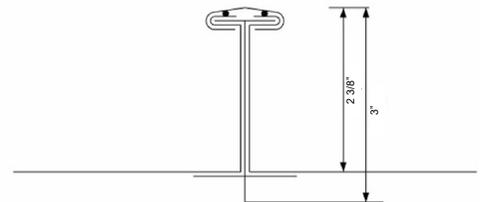
# MaxRun 238™ Installation Guide



**SEAM ENGAGEMENT**



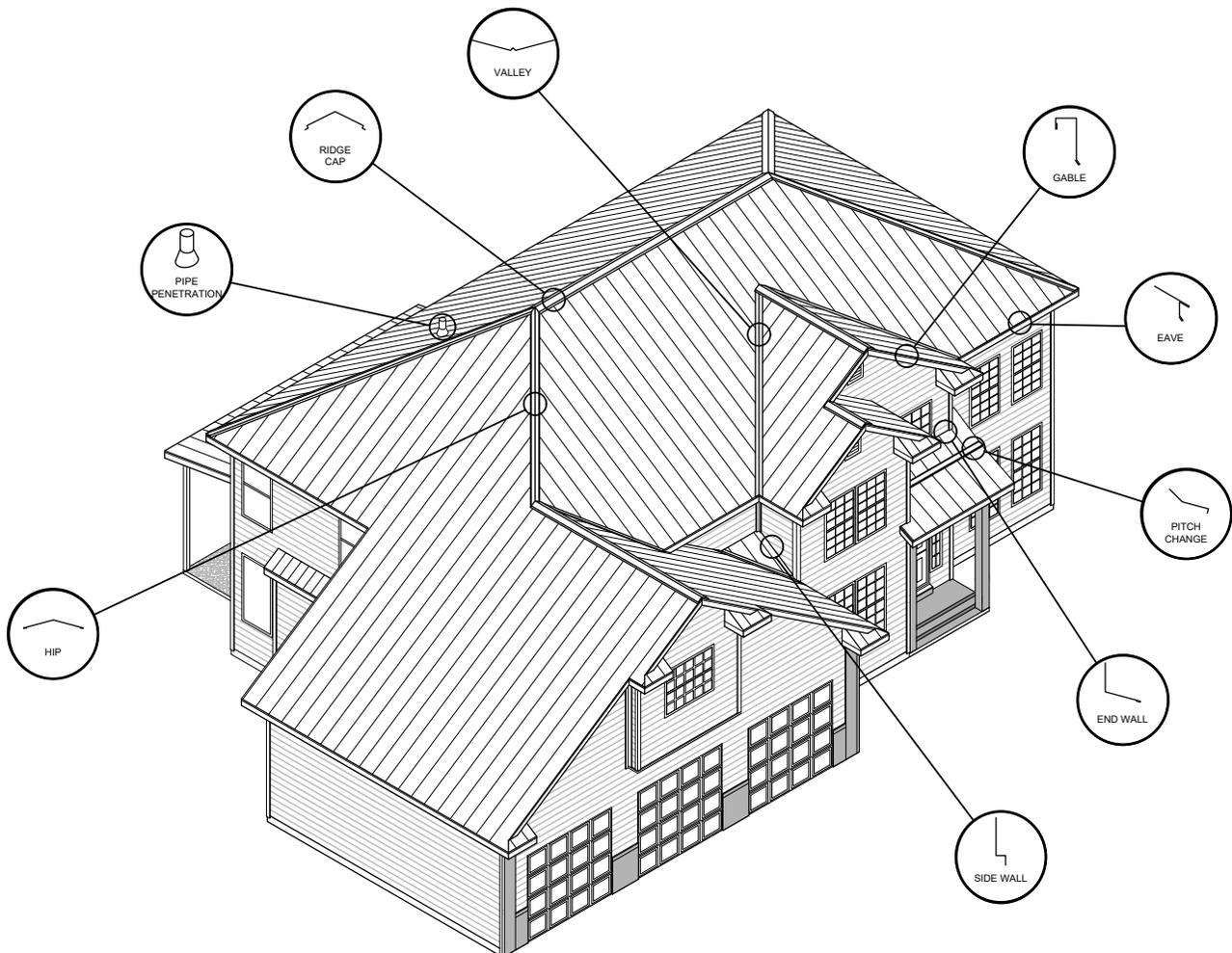
**BEFORE SEAMING**



**AFTER SEAMING**



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— 12", 14", 16", 18" & 24" coverage options —



**PLATEAU RIB W/ V-GROOVES**

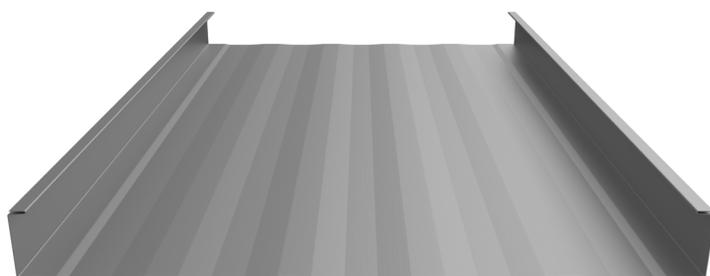


**ACCENT RIBS**

2 Accent ribs for 12" & 14" panels  
3 Accent ribs for 16", 18" & 24" panels



**PLATEAU RIB W/ ACCENT RIBS**



**STRIATIONS**

## KEY FEATURES

- 12", 14", 16", 18" & 24" coverage options \*Widths are nominal
- 24 and 22 Tru-Gauge™ and .032" and .040 Aluminum
- Zinc Coil (inquire for thickness)
- Floating system: allows for unlimited expansion and contraction of panels in longer lengths
- 1-3/8" or 2-3/8" vertical rib, factory notching available  
*\*Height is nominal*
- 1/2:12 minimum pitch for 2-3/8" and 1:12 minimum pitch for 1-3/8" is recommended (For lower pitches, please inquire)
- Standard panel lengths 1' to 60'  
(For longer length panels, please inquire)
- On-site roll forming available for longer panels
- Factory injected Butyl sealant available
- Clip Relief is not standard, available upon request
- Concealed fastener: fasteners cannot leak
- Weathertightness warranty available  
(Contact TMP representative for details)
- OverEZee retro-fit system available
- Panel options: Striations, Accent Rib, Flat Pan, Plateau Rib, Plateau Rib w/ V-Grooves
- Manufactured in Salem OR, Riverside CA & Sacramento CA

## TESTING

-  ICC EVALUATION SERVICE™ ICC-ESR #5046 with CBC-CRC Supplement (Coming 2026)
- UL 580 Class 90 - Wind Uplift (Coming 2026)
- UL 790 Class A (ASTM E108) - Fire rated (Coming 2026)
- UL 2218 Class 4 - Impact (hail) rated (Coming 2026)
- ASTM E1680 - Air infiltration (roof)
- ASTM E1646 - Water infiltration (roof)
- ASTM E1592 - Structural uniform static air pressure (2-3/8" Only)
- ASTM E331 - Water infiltration (wall)
- ASTM E283 - Air infiltration (wall)
- ASTM A653/A924 - G90 Galvanized
- ASTM A792 - Zinalume/Galvalume AZ-50/55
- ASTM B209 - Aluminum Substrate
- ASTM E2140 - Standard Test Method for Water Penetration (full immersion)
- ASTM E1514 Standard for Structural Standing steel roof panels systems.



SEAM ENGAGEMENT



BEFORE SEAMING



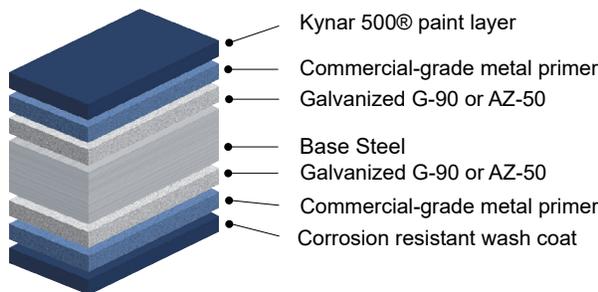
AFTER SEAMING

## MATERIAL SPECIFICATIONS

- 24 Tru-Gauge™ Kynar 500® Painted Steel
- ▲22 Tru-Gauge™ Kynar 500® Painted Steel
- ◆.032" Kynar 500® Painted Aluminum
- 24 Tru-Gauge™ G-90 Galvanized or AZ-50
- 24 and 22 Tru-Gauge™ bare Zinalume® Plus AZ-55 (No finish warranty – 25 yr. perforation warranty)
- G-90 Galvanized or AZ-50
- .040" Kynar 500® Painted Aluminum (please inquire)
- 24 Tru-Gauge™ Bonderized
- 22 gauge Rusteel Plus™ (A606)
- Custom 20 & 18 Tru-Gauge™ and .050" and .063" Aluminum (please inquire)
- 16 OZ & 20 OZ Real Copper (please inquire)
- Kynar 500® and substrate testing data available (See website)
- PVDF is a fluoropolymer that is manufactured under the trademarked names Kynar 500® and Duranar®(PPG). Paint finishes containing a minimum 70% PVDF resin meet the high-performance weathering criteria established by the American Architectural Manufacturing Association and are allowed to carry the Kynar500® trademarked name. Zinalume & Zinalume® Plus are registered trademarks of Bluescope Ltd. Galvalume® is a registered trademark of BIEC International, Inc. Vintage® is a registered trademark of Steelscape, Inc. Kynar® and Kynar 500® is a registered trademarks of Arkema, Inc.

## FINISHES

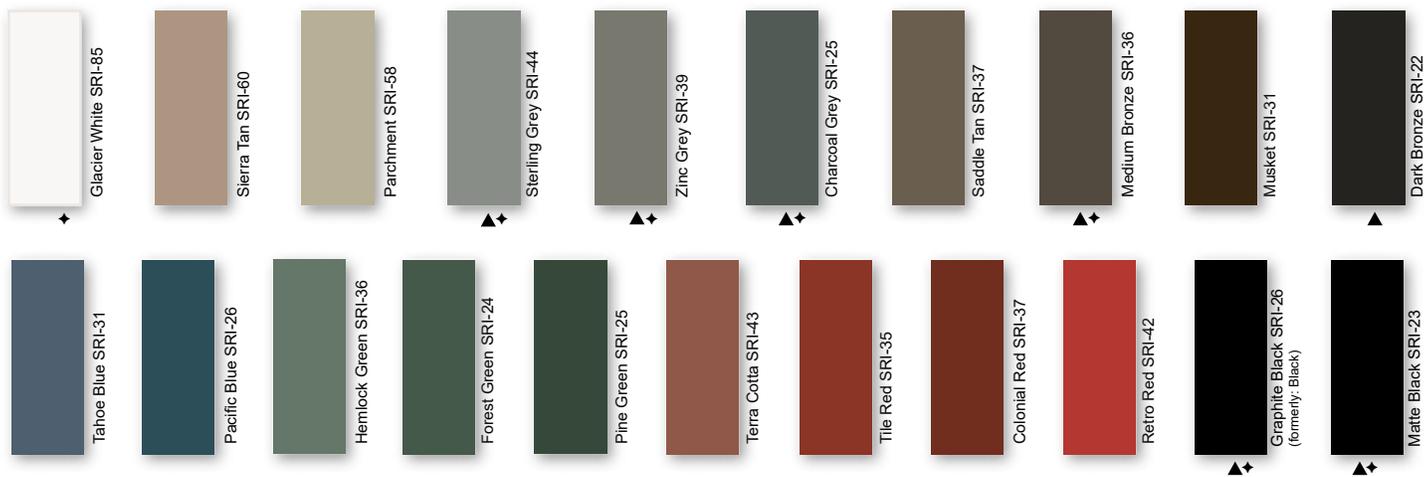
- 21 Standard Colors, 5 Metallic Colors and 4 Specialized Colors
- Kynar 500® Paint System - the ultimate in exterior durability and color retention
- “Cool” color pigments are specially designed to reflect infrared light, reducing heat gain to dwelling, and conform with ENERGY STAR® criteria
- Superior quality, two coat, 70% resin finish, applied at a 1 mil. thickness
- 40 year residential paint warranty
- 20 and 30 year commercial paint warranty: Contact TMP for warranty specifications
- “Oil Canning” is an inherent characteristic of roof and wall products, and not a defect, which is not a cause for panel rejection



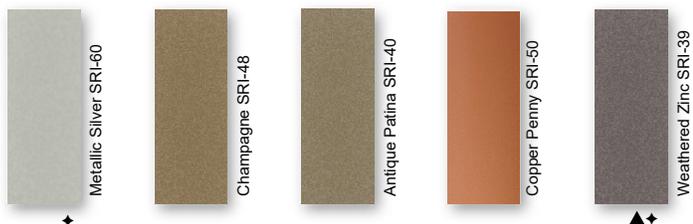
## STANDARD COOL KYNAR 500® COLORS

▲22 Tru-Gauge™

◆.032 Aluminum



## PREMIUM METALLIC COOL KYNAR® COLORS



## SPECIALIZED MATERIAL



These printed chips provide a close representation of the colors.

Metal samples are available upon request. Coatings are low gloss 10-15% sheen. SRI = Solar Reflective Index. SRI values listed above are in accordance with ASTM E 1980 and are based on actual testing.\*\*\*Oil canning is not a cause for material rejection\*\*\*



steelscape

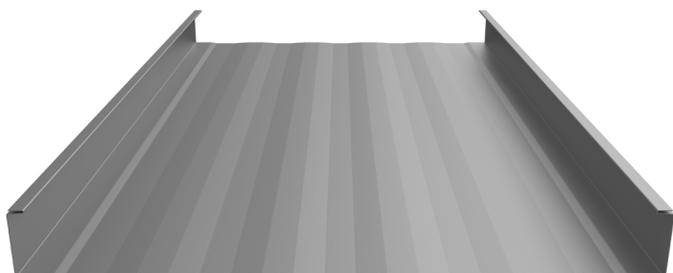




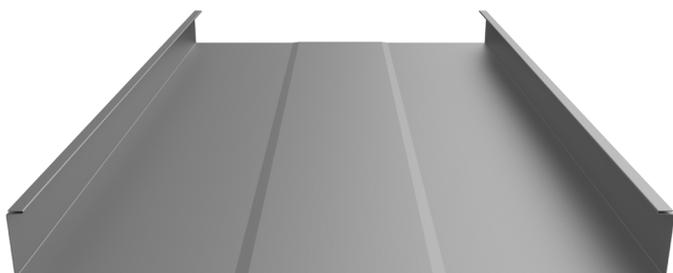
**FLAT**



**ACCENT RIBS**



**STRIATIONS**



**PLATEAU RIB**



**PLATEAU RIB with V-GROOVES**



**PLATEAU RIB with ACCENT RIBS**

## Notes to Designer/Installer

**Taylor Metal Products** is providing the following details as an aid in design. The details in this guide are not inclusive to all design situations. The designer/installer is responsible for modifications and should take into consideration all aspects of the project including climate conditions, such as, snow and wind, as well as, building code requirements, building design, building usage and maintenance requirements.

Installation should be performed only by qualified installers familiar with metal roofing systems and industry standards. For details not shown in this guide, refer to the Sheet Metal and Air Conditioning Contractors National Association (SMACNA) architectural sheet metal manual for proper design. For manufacturer's weather tightness warranties – all details must be preapproved by Taylor Metal Products technical representative.

The Standard gauge for all products in this guide is 24 gauge and the standard finish is Kynar 500®. We recommend specifying all flashings be the same gauge, color, and finish as the panels to insure long-term durability and color match.

### Substrates

Details in the manual are all shown over solid substrate. **MaxRun 238™** can be used over spaced purlins. For solid substrate, **Taylor Metal Products** recommends 15/32" plywood or metal decking. Contact a TMP representative with questions about panel attachment to varying substrates.

### Underlayment

Minimum underlayment requirements are a synthetic underlayment with Class A and ASTM UV protection technology or TMP Blue Armor/SAM-HT self-adhering rubberized membrane. When choosing the underlayment, consider the roof slope, roof design, roof panel, and the climate.

### Drag Load Requirements

All panels must be pinned at one end to resist the drag load caused by snow loads, live loads, and the weight of the panel. Drag load is a function of roof slope, actual load and length of panels. Contact **Taylor Metal Products** for specific drag load requirements.

## **Ventilation/Insulation**

It is the responsibility of the designer to determine the material types needed to control condensation and to insulate and ventilate the roof system. Applications over rigid insulation may require blocking for solid attachment and framing the perimeter for installation of perimeter flashings.

## **Oil Canning**

Flat metal surfaces will display waviness commonly referred to as “oil canning.” Oil canning is caused by a variety of conditions. Steel mill tolerances, variations in or uneven substrates and roofing underlayments. Oil canning is a characteristic of metal roofing, not a defect and is not a cause for rejection. **Taylor Metal Products** offers **MaxRun 238™** with striations or accent ribs to help minimize oil canning.

## **Thermal Movement**

The Panels and the flashings must be allowed to expand and contract, especially with longer length panels. The panel may need to have a slight gap where the panel hooks the offset cleat to allow for thermal movement of the panels.

## **Snow Design**

The following details do not address all conditions for snow environments. Consult with the designers, engineers, and others for acceptable details to accommodate your project and climate conditions. When possible; gutters, valleys, pitch changes or other penetrations should be minimized in snow areas.

All roof penetrations should be located as close to the ridge or “pin point” top of roof. Snow country requires special designs for valleys to accommodate accumulation of snow and ice from uphill panels. Roof design should be considered in snow areas. Roof design should help resist the melting and freezing of snow and ice.

A fit for purpose roof design has the greatest impact on maintaining a damage free roof system in snow areas. Please contact a Taylor Metal Products representative for assistance in detail designs and appropriate panel selection for specific climate and building conditions.

## Handling / Storage & Safety

Handle materials with care when off-loading or moving materials to avoid damage to panels or flashings. Long panels may require two or more pick-up points, properly spaced, to avoid damaging panels. Plan ahead; contact Taylor Metal Products for recommendations on handling/hoisting long panels.

Store the panels, flashings and accessories in a dry, well ventilated area, off the ground. If covering, allow ventilation around panels. Elevate one end of bundle to allow drainage of wet materials.

Wear clean, soft-soled shoes when walking on roofing panels to avoid damage to the painted finish.

Take care that sand, gravel, dirt, etc. sticking to your shoes is not carried onto the roof, scratching or otherwise damaging the finish on the roofing material. Walking on asphalt impregnated felt paper, especially on a hot day, can cause the asphalt to stick to your shoes and be tracked on to the roofing material.

Take care when painting to avoid getting over spray on the roofing material. Remember that wind can carry paint particles some distance. Over spray can cause the finish of the roofing material to look dull and may void your warranty.

Secure materials, especially when leaving the site, on the ground or roof to prevent winds from moving the materials. Wind-blown materials may cause damage to the material, property or persons.

Always use proper safety equipment and attire to minimize risk of cuts or other injuries.

Do not walk on panels that have not been completely installed.

Do not walk on major ribs of panels.

Metal roofs that are wet or dusty can be extremely slippery. Wear soft soled shoes and a safety harness to minimize risk of falling.

Avoid installing metal panels in windy conditions.

Safety considerations are the responsibility of the installer and his crew. Be sure to and **use common sense** generally accepted safety practices when installing roofing materials.

# Taylor Delivery Fleet



## Delivery Fleet

Taylor Metal Products prides itself with quick lead times delivered with our fleet of semi trucks. Our fleet of trucks are owned and operated by TMP. All of our drivers are Taylor Metal Products employees, so when your truck rolls in to deliver, you are dealing with Taylor Metal Products.

Expect consistent and exceptional service with short lead times. The inhouse fleet allows for efficient and cost-effective delivery.



Mounted on the rear of our truck's trailer, the trailer-mounted "Piggy-Back" forklift will accompany you right to your place of use, opening up unprecedented possibilities in terms of transportation. It can travel sideways, carrying panels up to 40' long, allowing delivery in locations that would typically be considered impossible to reach.

Save time and effort while avoiding potential loading and transport issues; have experienced TMP personnel deliver and unload your order.



## Delivery

We will make every attempt to deliver material to the desired location. We may be unable to gain access on tight corners or steep terrain. If the site is deemed inaccessible by our driver, the customer may choose an alternate delivery site within a reasonable proximity. If we are unable to make the delivery, additional charges may be assessed.

The customer is responsible for:

- Determining adequate access for delivery ahead of time.
- Meeting the delivery at the agreed upon time.
- Providing adequate resources (1-4 people as needed) for off loading materials.
- **A charge of \$100 per hour may be added for deliveries that go beyond their allotted time**
- Checking the shipment at the time of delivery.
- Verifying material quantities against the shipping/packing list.
- Noting any damage or discrepancies upon the paper work at the time of delivery and notifying Taylor Metal Products within 48 hours of delivery.

Delivery times are usually scheduled one day in advance. Taylor Metal Products will make every effort to make the delivery at the scheduled time. Please be aware that there may be conditions beyond our control such as traffic, mechanical failures, road closures, etc. which may affect our schedule.

## Will Call & Loading

Flatbed trailers and trucks are best suited to transport metal roofing materials. These can be loaded from the side with a forklift and tied down in a safe and secure manner.

We are not able to load materials onto vehicles and/or trailers which are not suitable or may be hazardous to load. Please be aware that if we find a vehicle to be inappropriate, we reserve the right to refuse to load your order.

Unacceptable examples include: boat trailers, vans, buses, motor homes, campers and box trailers. Pickup racks which do not have sufficient supports for the weight or are not long enough to support bundles are also unacceptable.

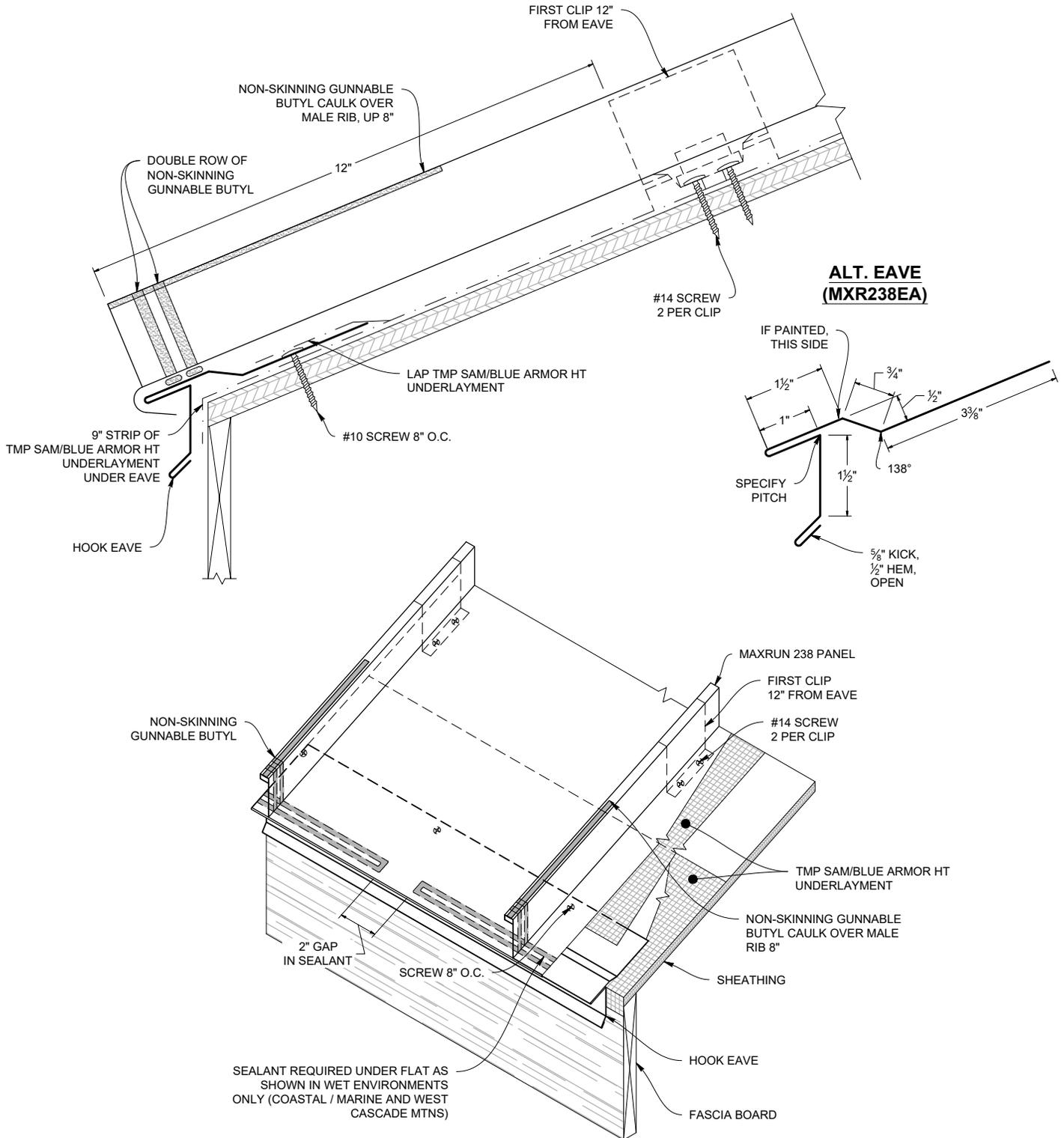
Taylor Metal Products is not responsible to tie down loads nor do we provide any tie down materials. Please bring tie downs to secure your load (string or twine are **not** acceptable for this purpose).

**Consider having your order delivered on one of our trucks with a piggy back forklift.**



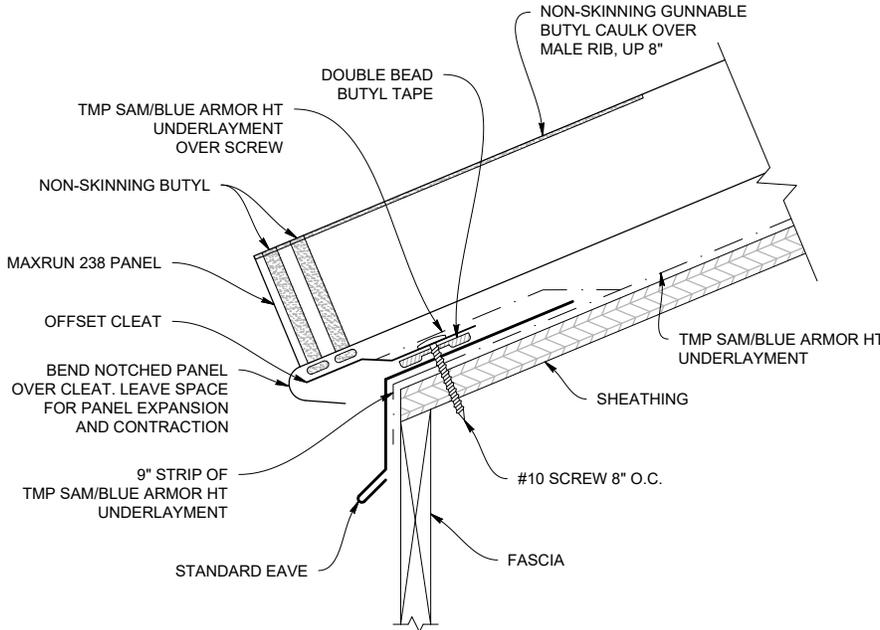
# Alternate Eave

## ALT. EAVE DETAIL

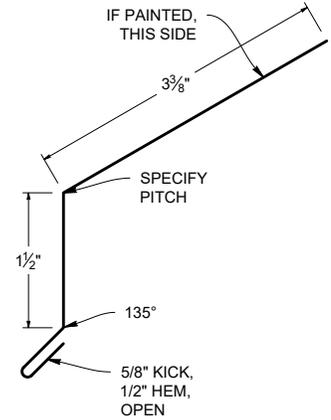


**Note:** All screws must be fastened into solid substrate.  
Flashing must be lapped 4" with 3 rows of gunnable butyl.

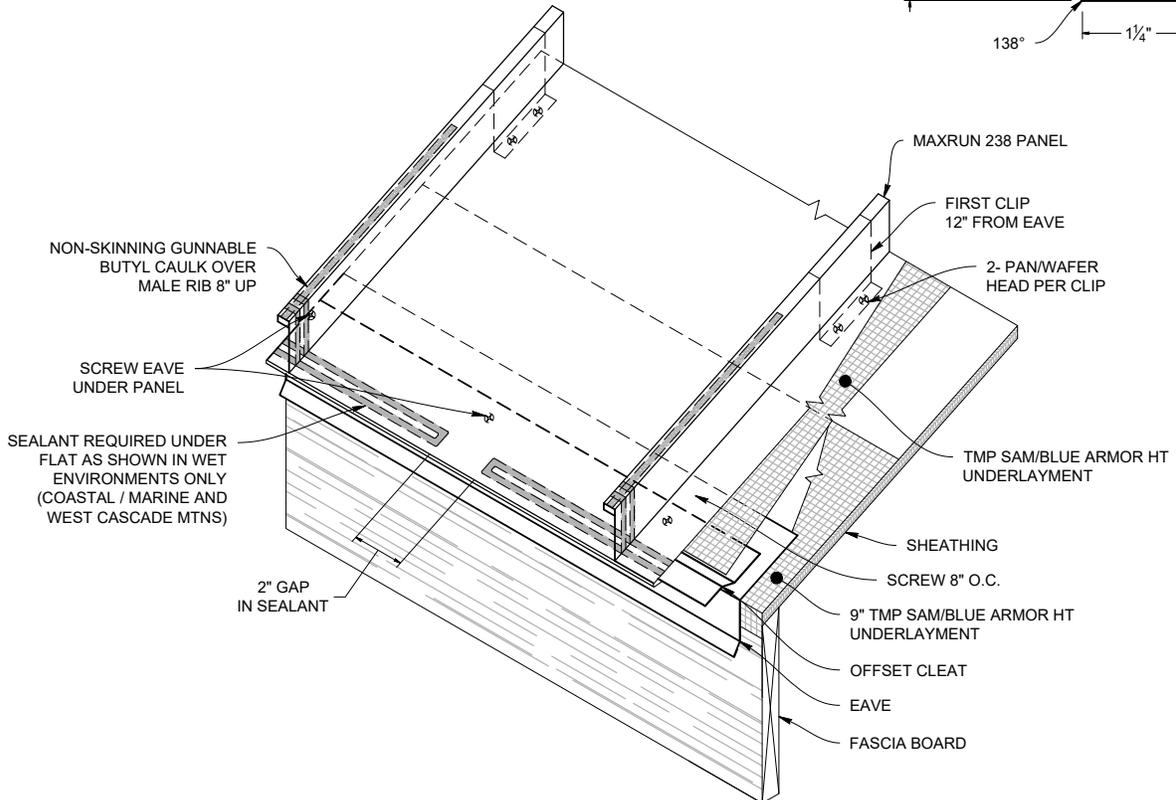
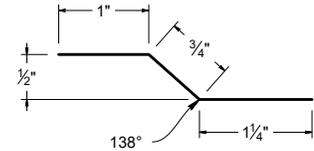
## STANDARD EAVE DETAIL



## STANDARD EAVE (MXR238ES)



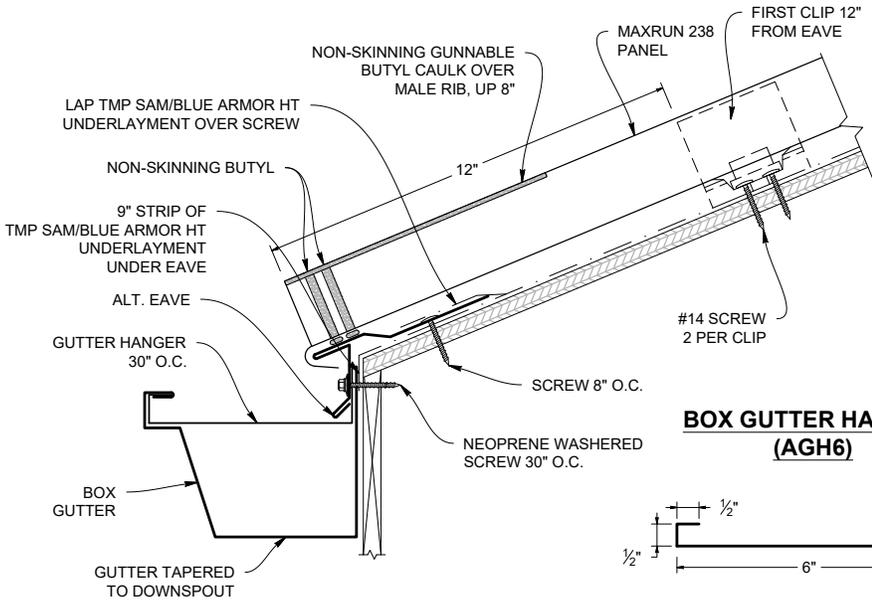
## OFFSET CLEAT (MXR238OC)



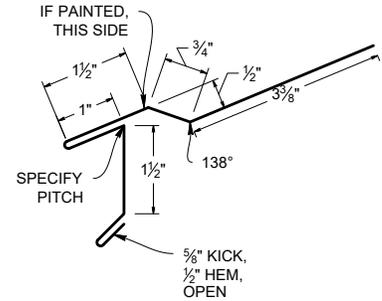
**Note:** All screws must be fastened into solid substrate.  
Flashing must be lapped 4" with 3 rows of gunnable butyl.

# Gutter / Hook Eave

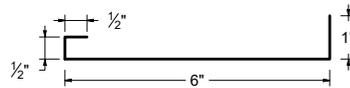
## ALT. EAVE WITH GUTTER DETAIL



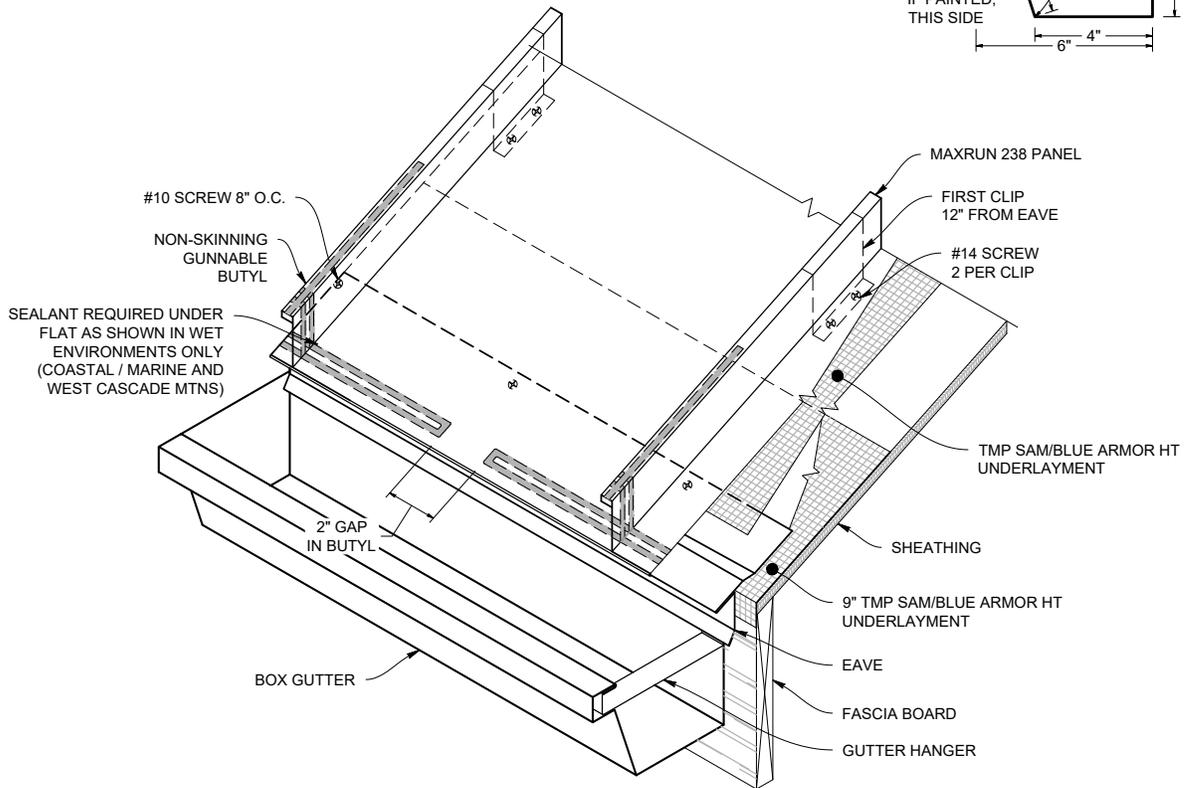
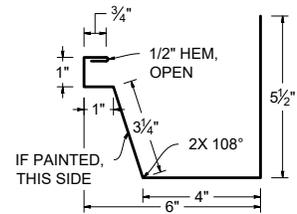
## ALT. EAVE (MXR238EA)



## BOX GUTTER HANGER (AGH6)

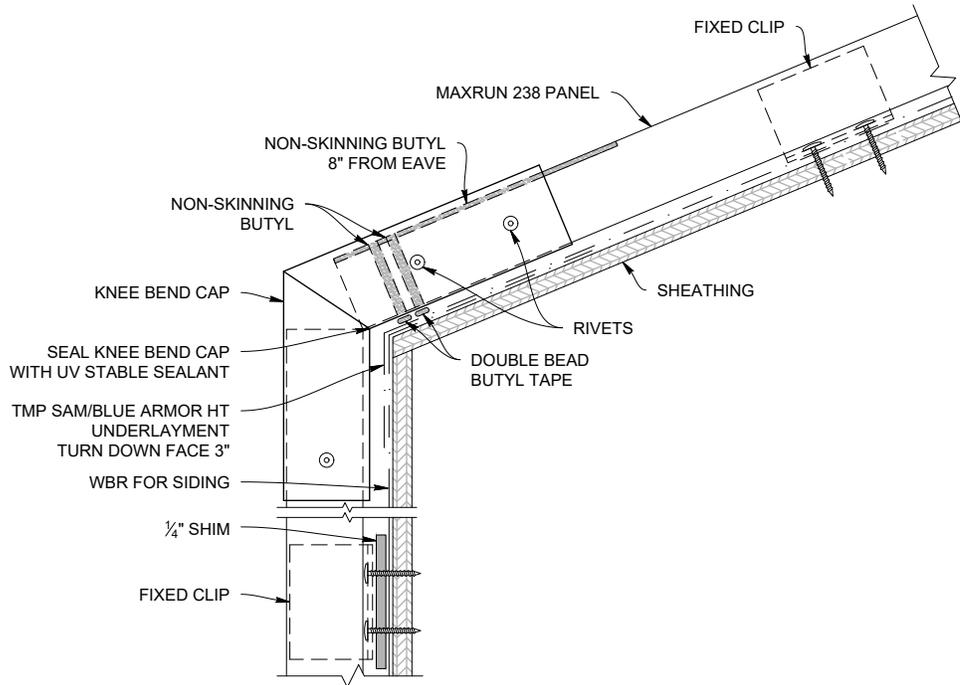


## BOX GUTTER (MXR23865BG)

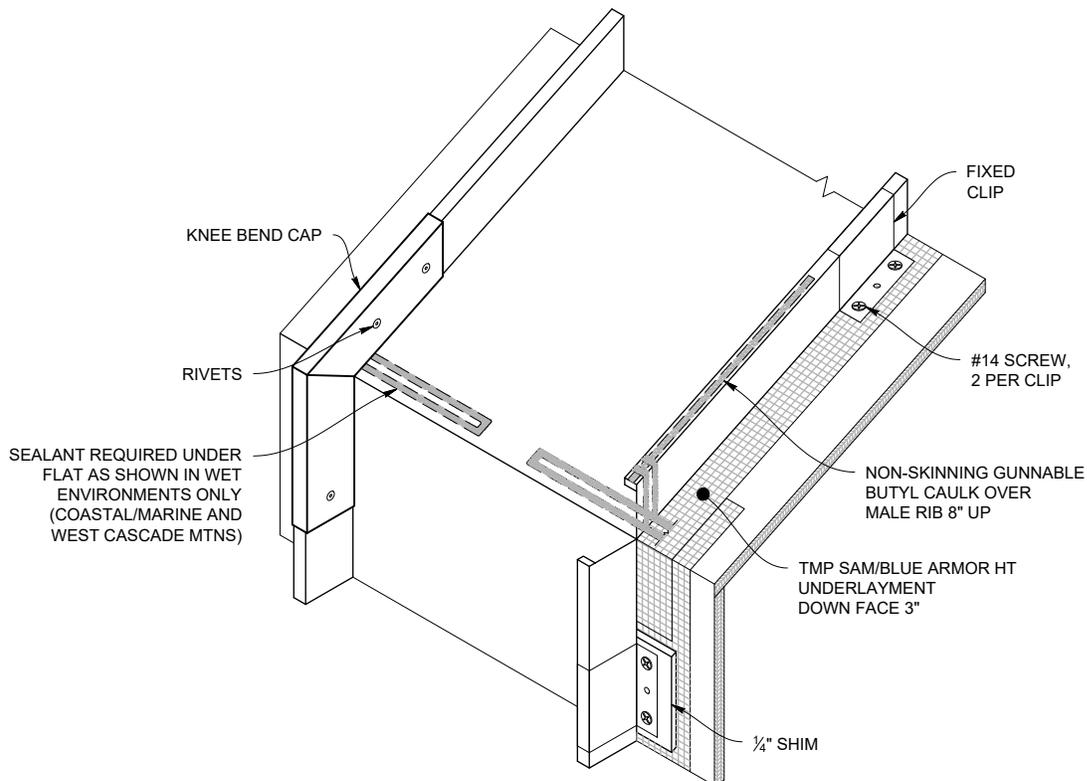


**Note:** All screws must be fastened into solid substrate.  
Flashing must be lapped 4" with 3 rows of gunnable butyl.

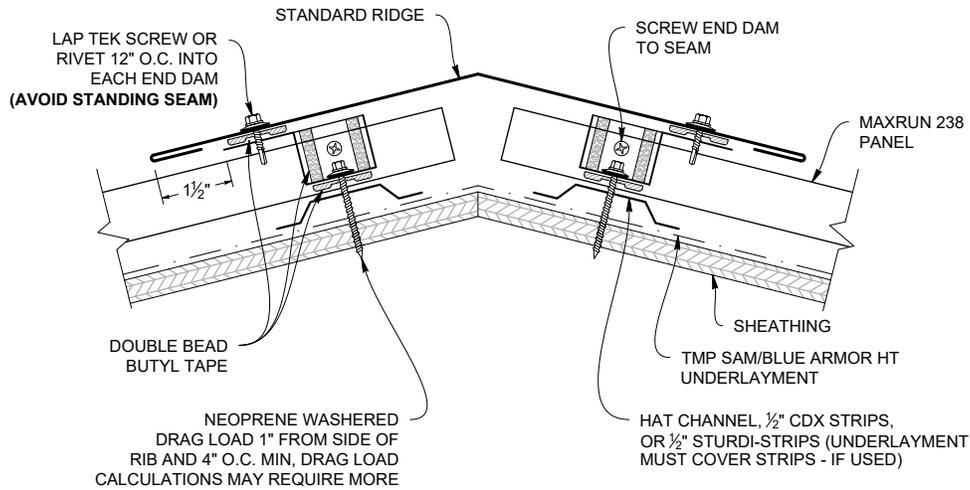
## KNEE BEND



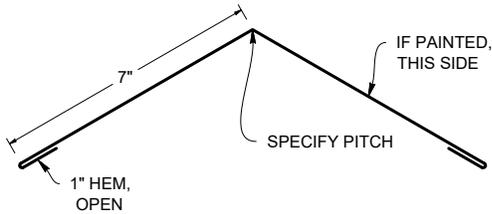
## KNEE BEND DETAIL



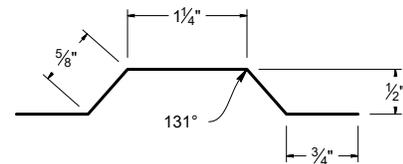
## STANDARD RIDGE DETAIL



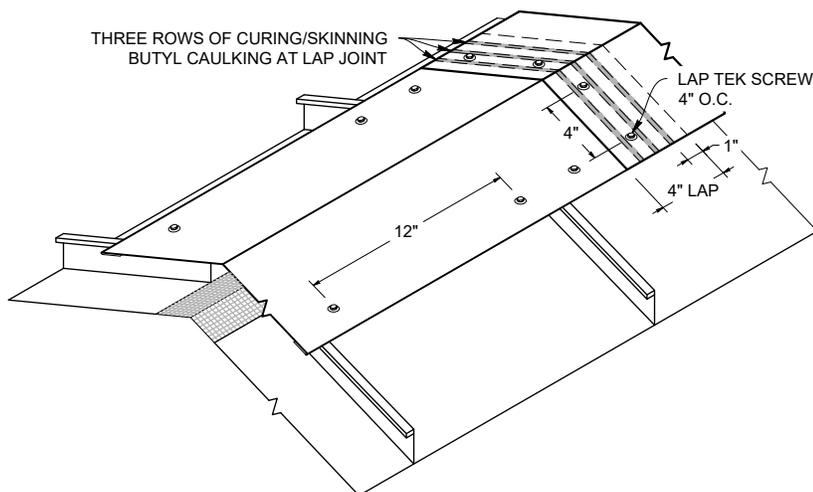
### STANDARD RIDGE (MXR238RS)



### HAT CHANNEL FLASHING

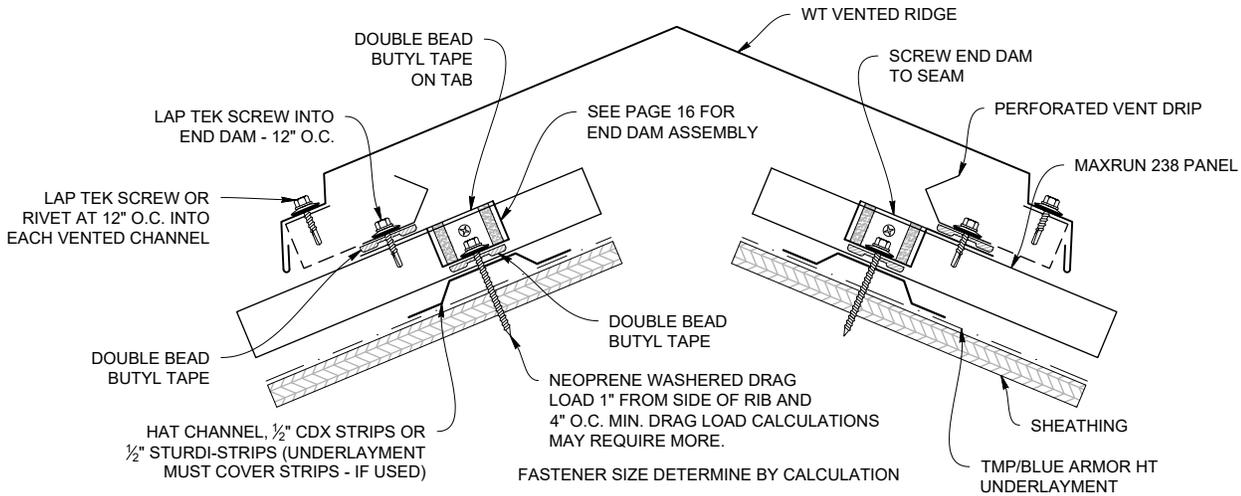


## STANDARD RIDGE LAP

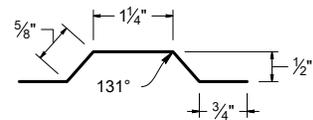


**Note:** All screws must be fastened into solid substrate.  
Flashing must be lapped 4" with 3 rows of gunnable butyl.

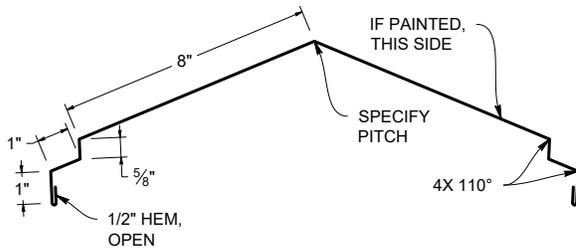
## WT VENTED RIDGE DETAIL



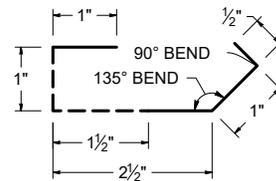
## HAT CHANNEL FLASHING



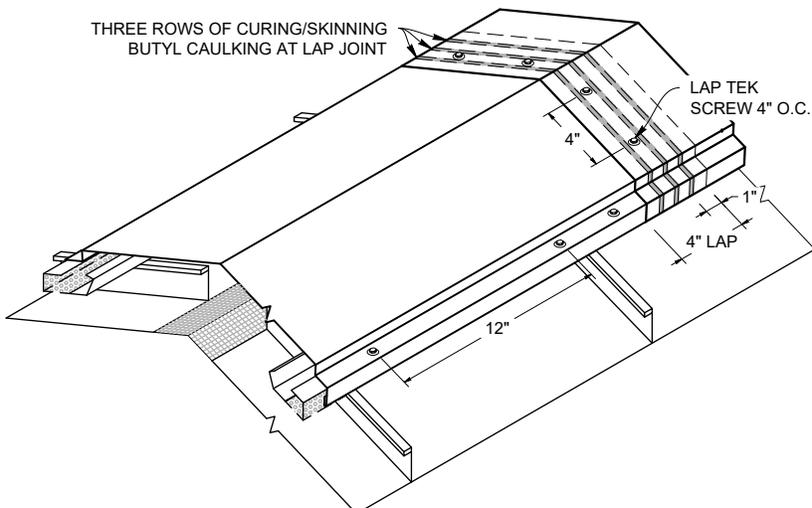
## WT RIDGE FULL VENTED (MXR238WTRFV)



## PERFORATED VENT DRIP: E2886 EMBER RESISTANT (MXR238PVD)



## VENTED RIDGE LAP

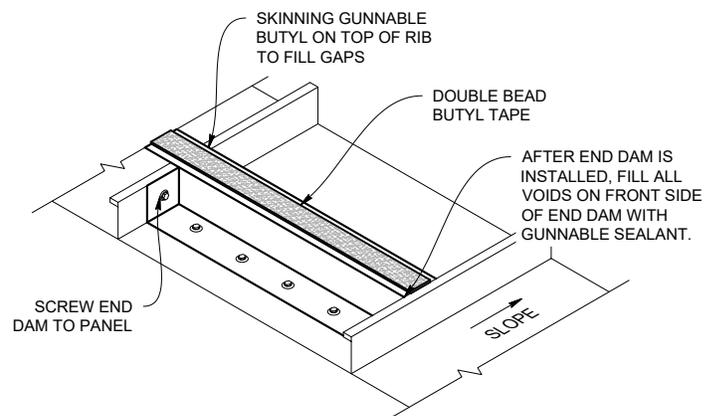
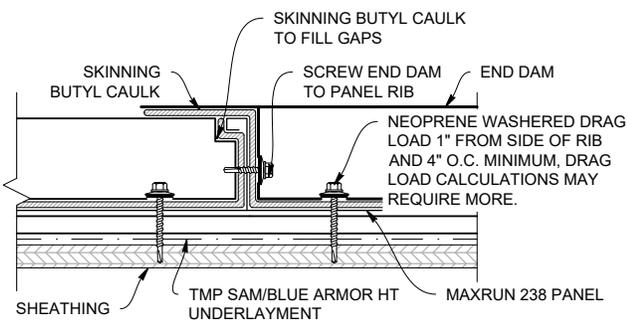
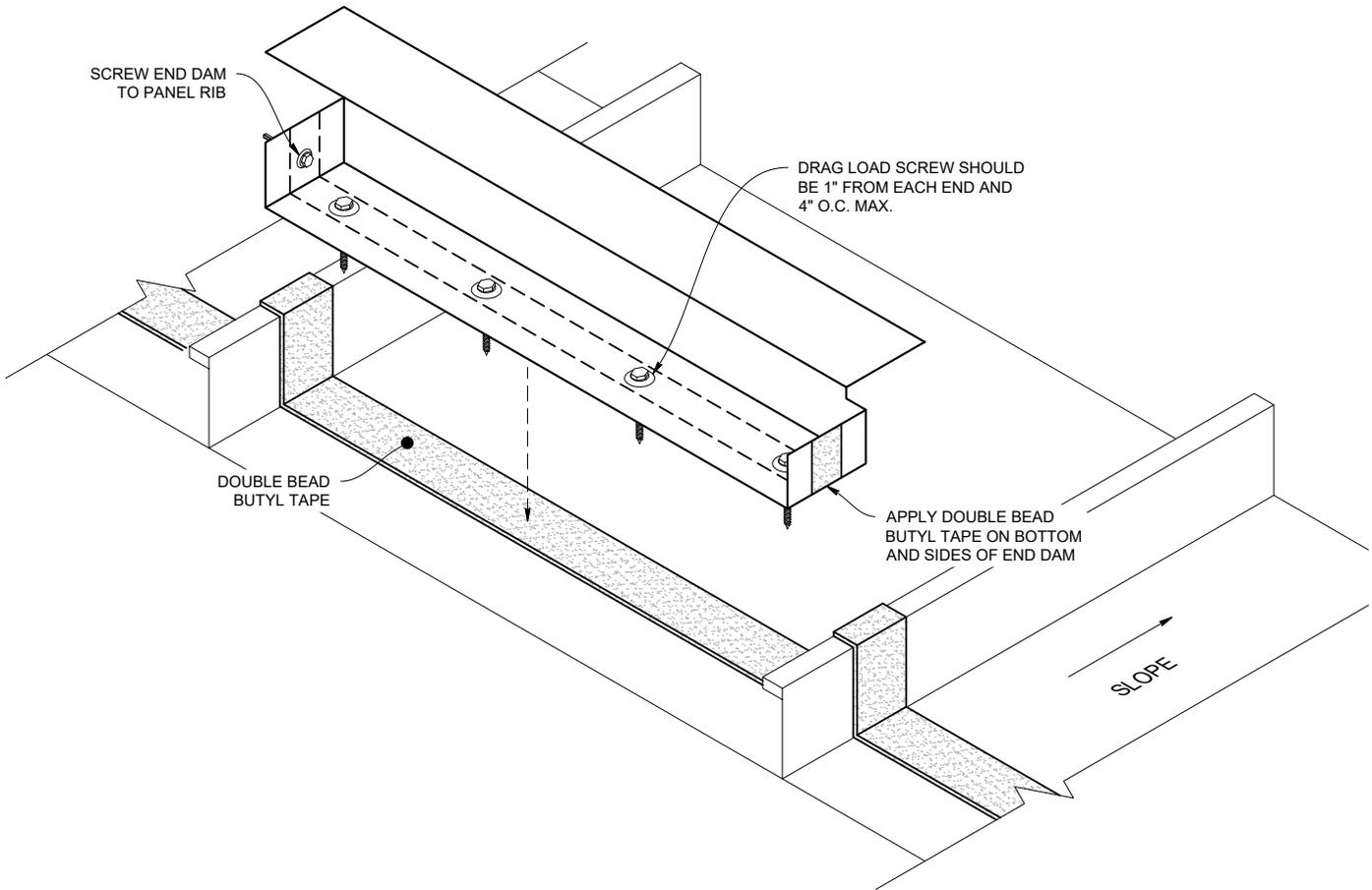


**\*\*NOTE: PERFORATED VENT DRIP IS COMPATIBLE WITH WT VENTED RIDGE ONLY\*\***

**\*\*14.5" Free air per LFT for Ridge\*\***

**Note:** All screws must be fastened into solid substrate.  
Flashing must be lapped 4" with 3 rows of gunnable butyl.

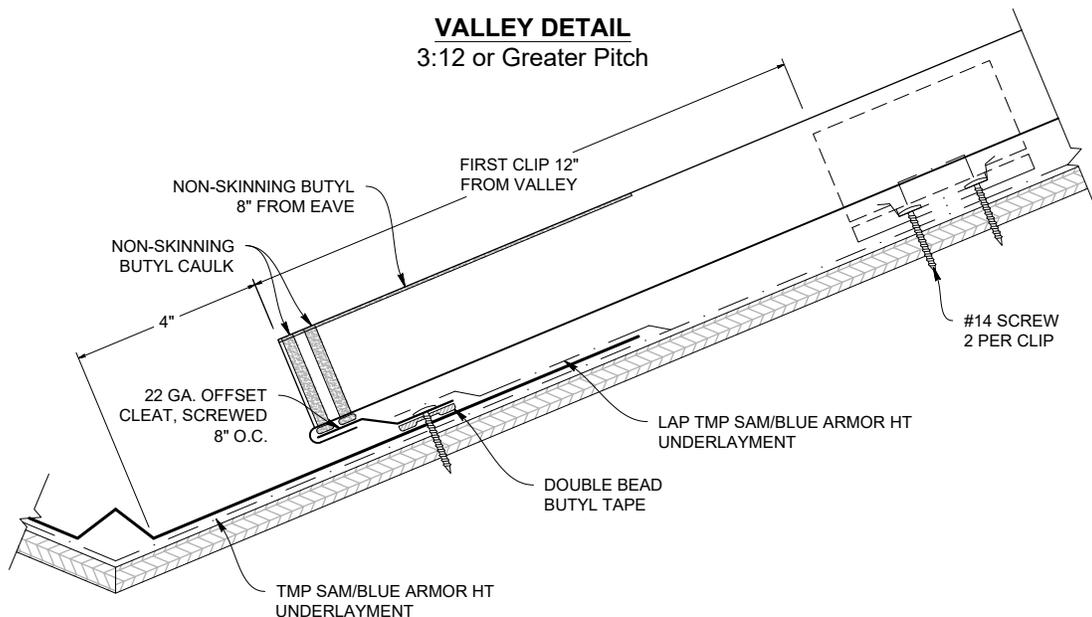
# End Dam Attachment



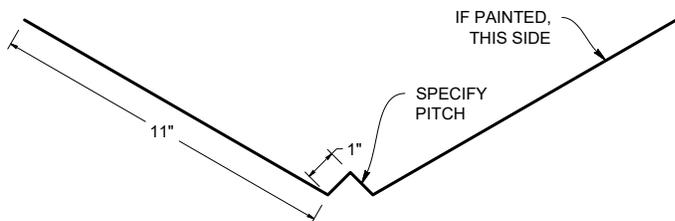
**Note:** All screws must be fastened into solid substrate.  
Flashing must be lapped 4" with 3 rows of gunnable butyl.

### VALLEY DETAIL

3:12 or Greater Pitch

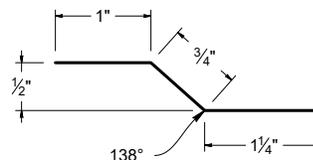


### VALLEY (MXR238VF)



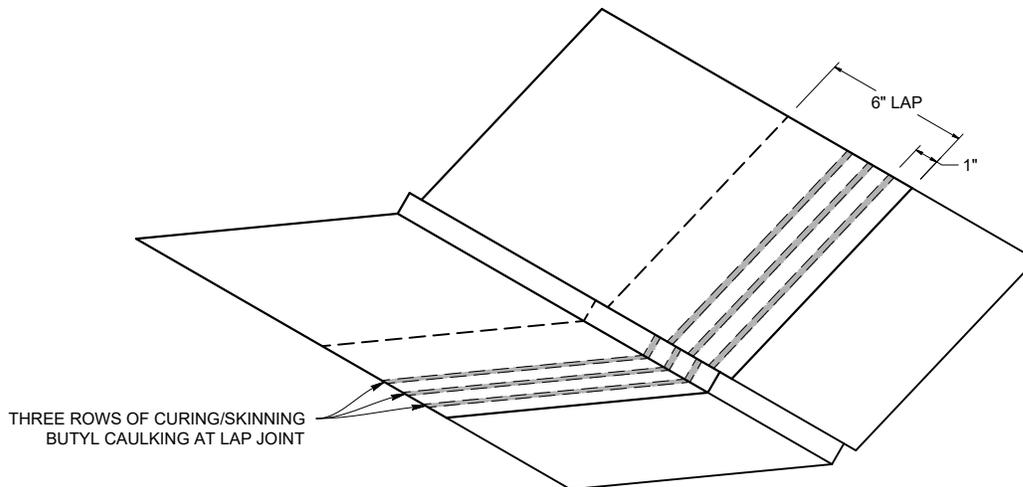
PITCHES UNDER  $\frac{3}{12}$  REQUIRE 23" RETURNS

### OFFSET CLEAT (MXR238OC)



### VALLEY LAP

3:12 or Greater Pitch



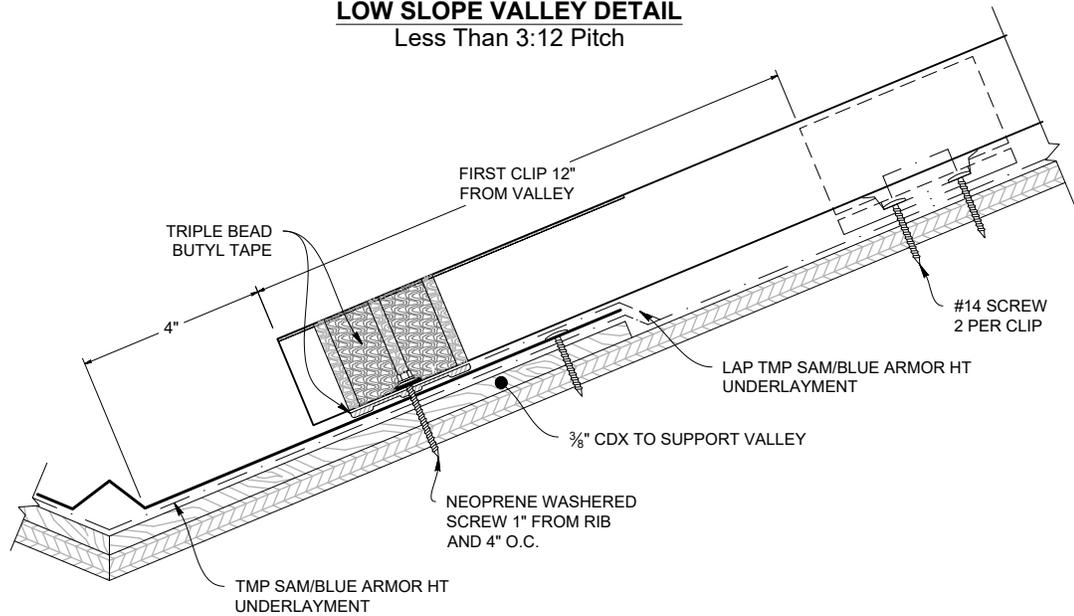
**Note:** All screws must be fastened into solid substrate.  
Flashing must be lapped 4" with 3 rows of gunnable butyl.

# Valley - Low Pitch

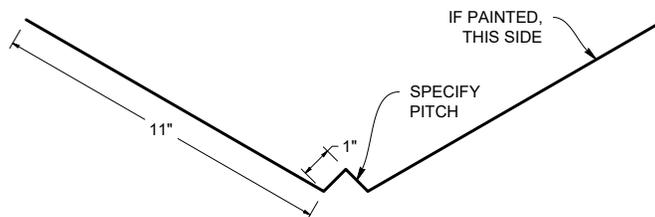
## Slope Less than 3:12

### LOW SLOPE VALLEY DETAIL

Less Than 3:12 Pitch

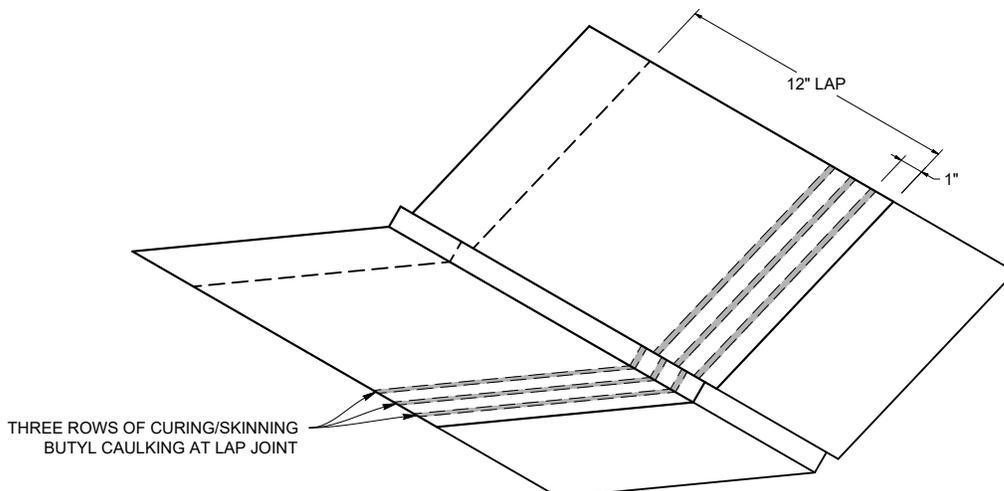


### VALLEY FLASHING (MXR238VF)



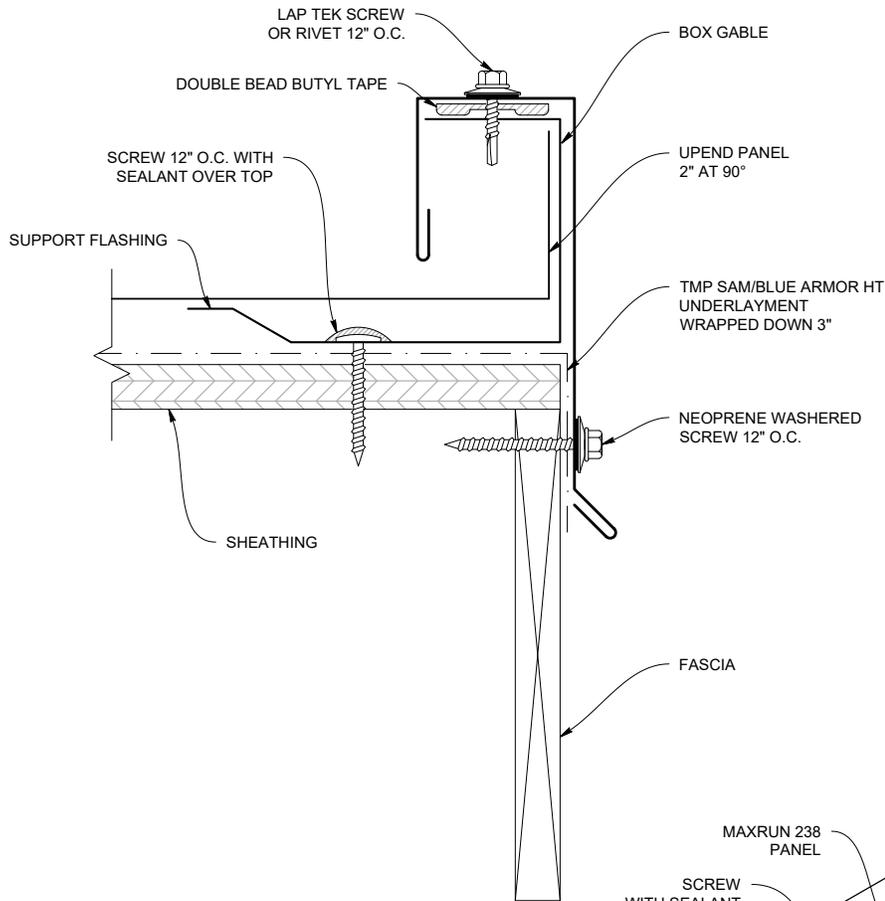
### LOW SLOPE VALLEY LAP

Less Than 3:12 Pitch

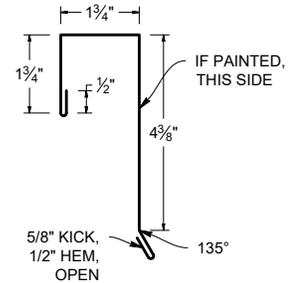


**Note:** All screws must be fastened into solid substrate.  
Flashing must be lapped 4" with 3 rows of gunnable butyl.

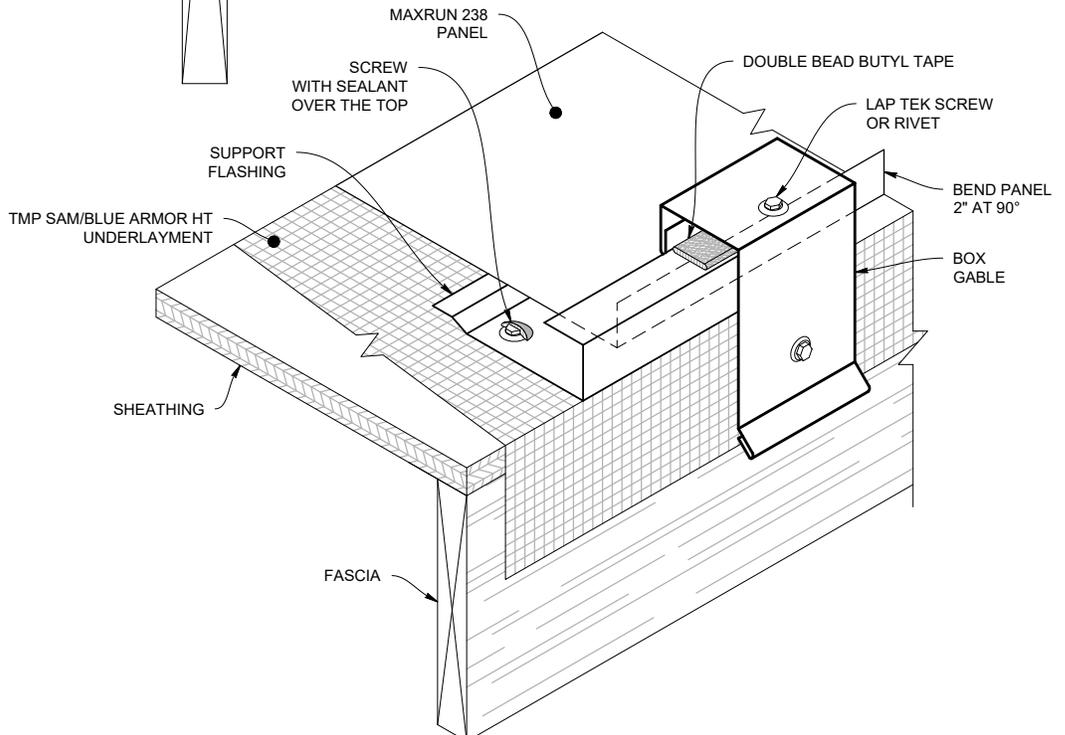
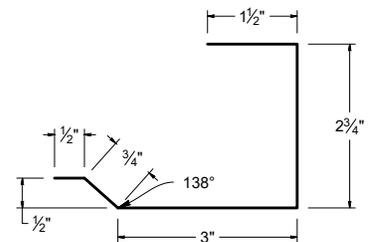
## BOX GABLE DETAIL



## BOX GABLE (MXR238GB)

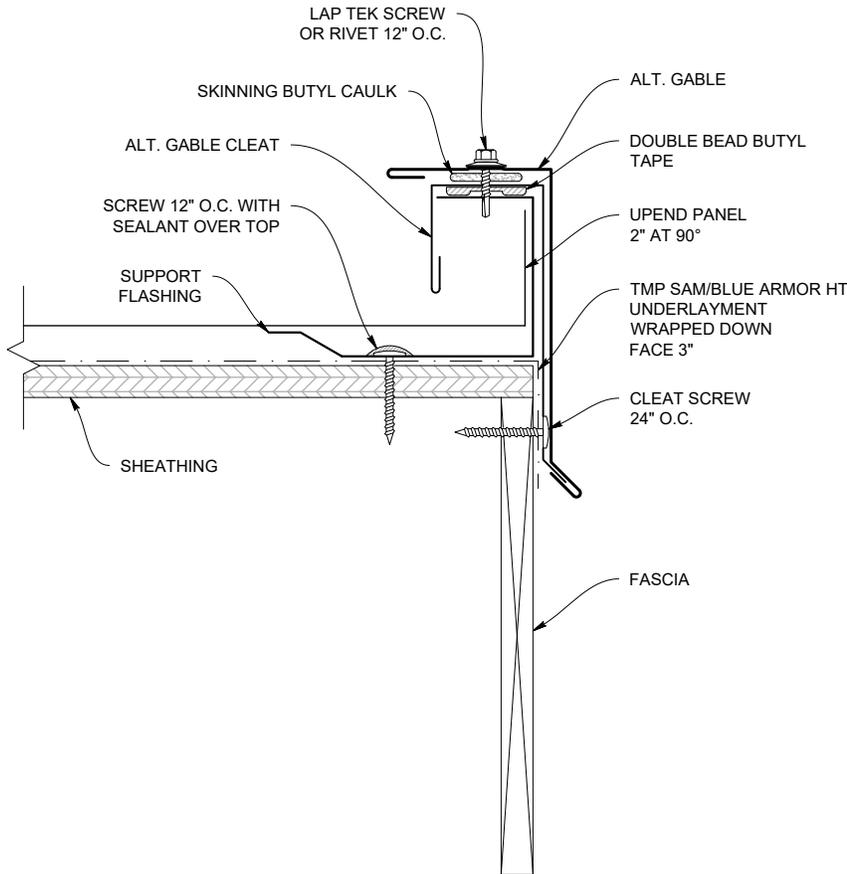


## SUPPORT FLASHING (MXR238SF)

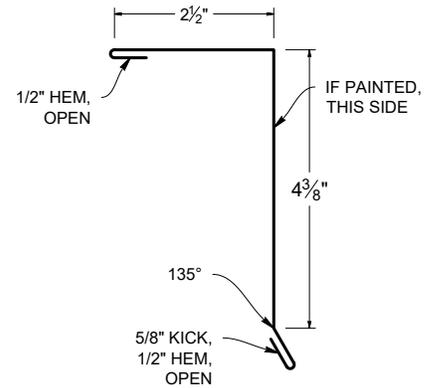


**Note:** All screws must be fastened into solid substrate.  
Flashing must be lapped 4" with 3 rows of gunnable butyl.

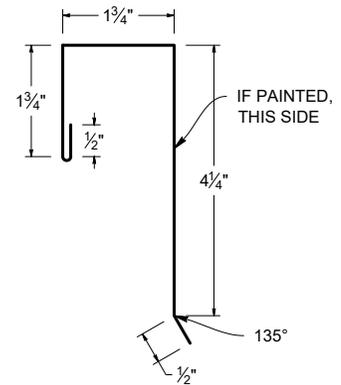
## ALTERNATE GABLE DETAIL



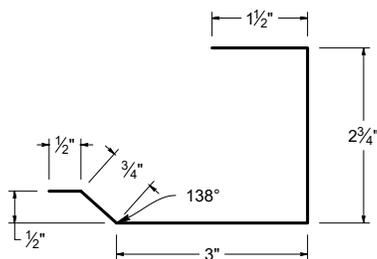
## ALTERNATE GABLE (MXR238AG)



## ALTERNATE GABLE CLEAT (MXR238AGC)

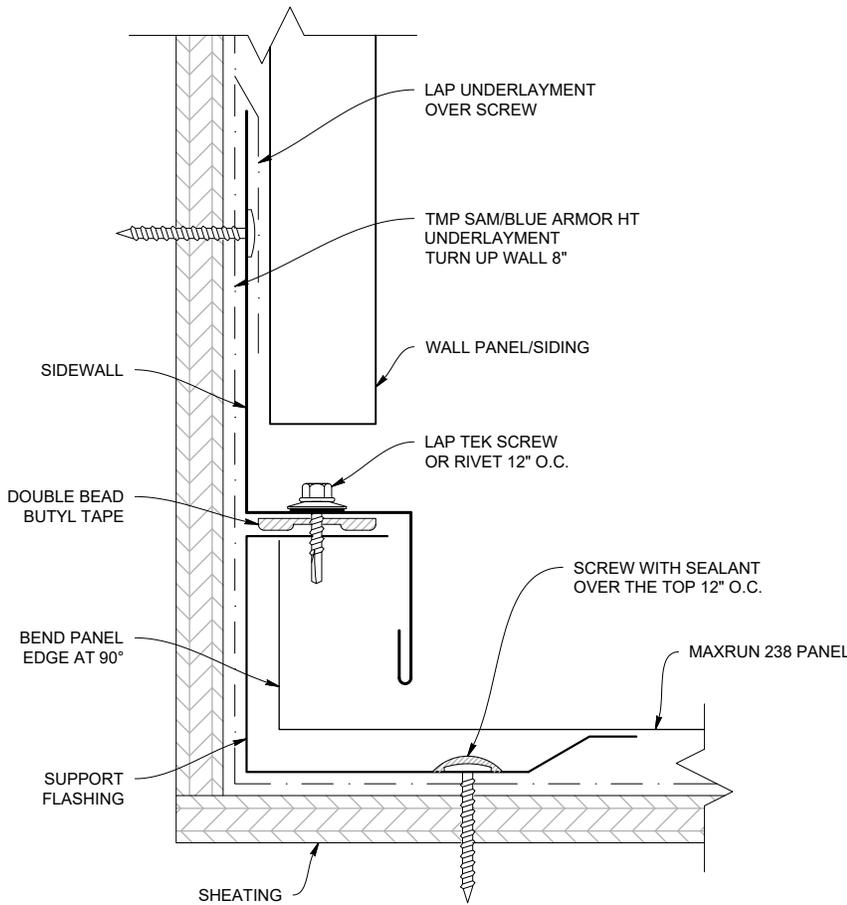


## SUPPORT FLASHING (MXR238SF)

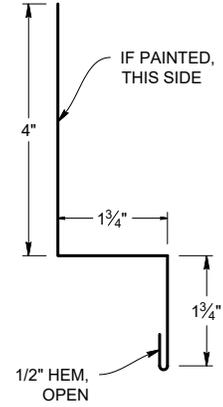


**Note:** All screws must be fastened into solid substrate.  
Flashing must be lapped 4" with 3 rows of gunnable butyl.

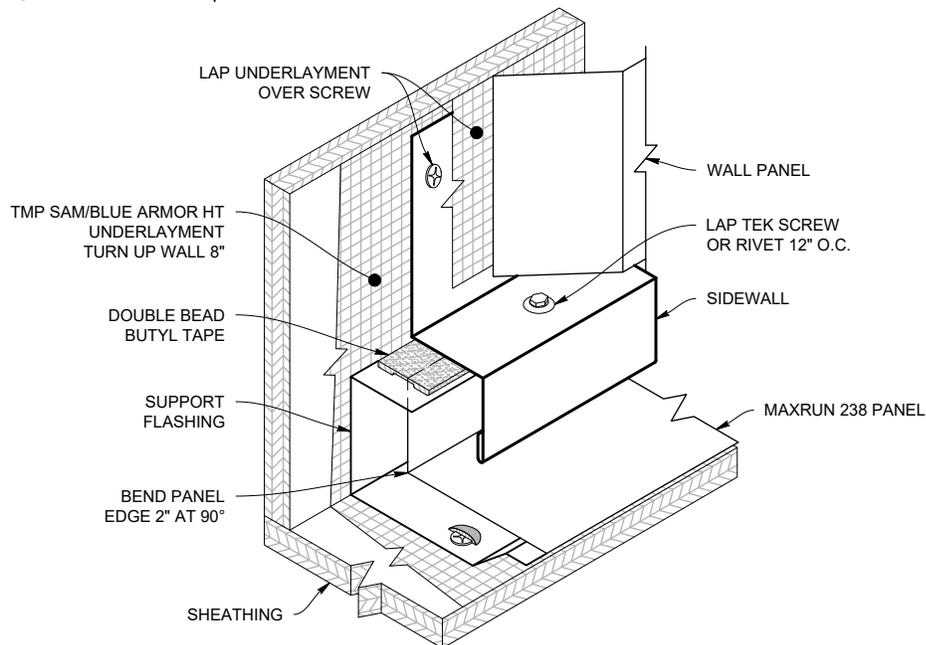
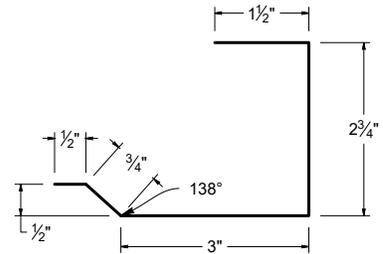
## SIDEWALL DETAIL



## SIDEWALL (MXR238SW)



## SUPPORT FLASHING (MXR238SF)

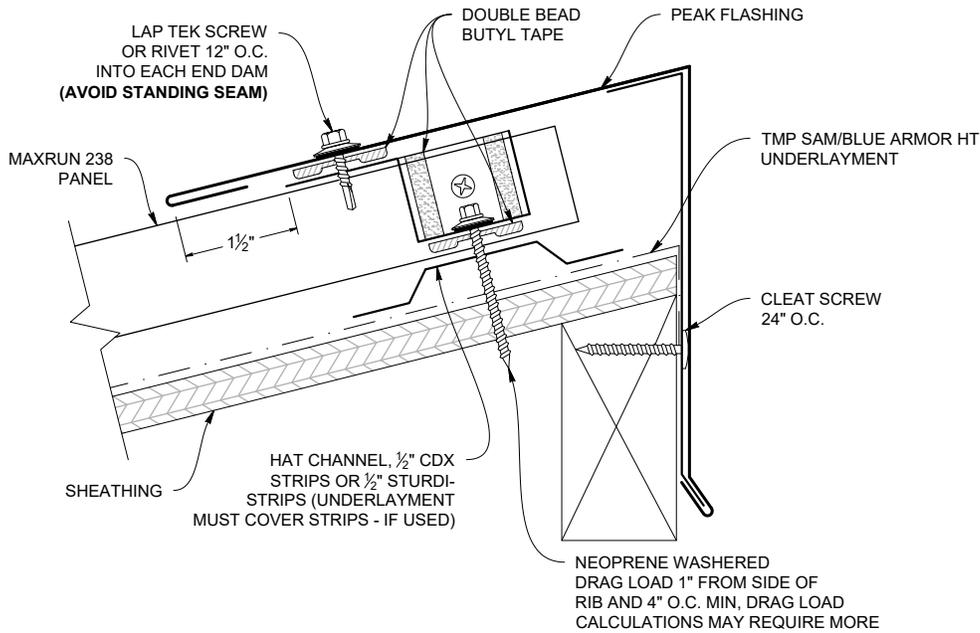


**Note:** All screws must be fastened into solid substrate.  
Flashing must be lapped 4" with 3 rows of gunnable butyl.

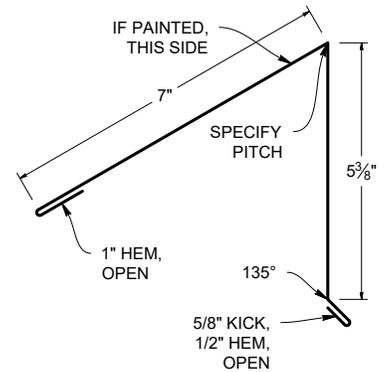
# Peak Flashing

(Ridge End Cap)

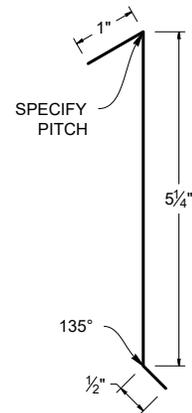
## PEAK FLASHING DETAIL (Ridge End Cap)



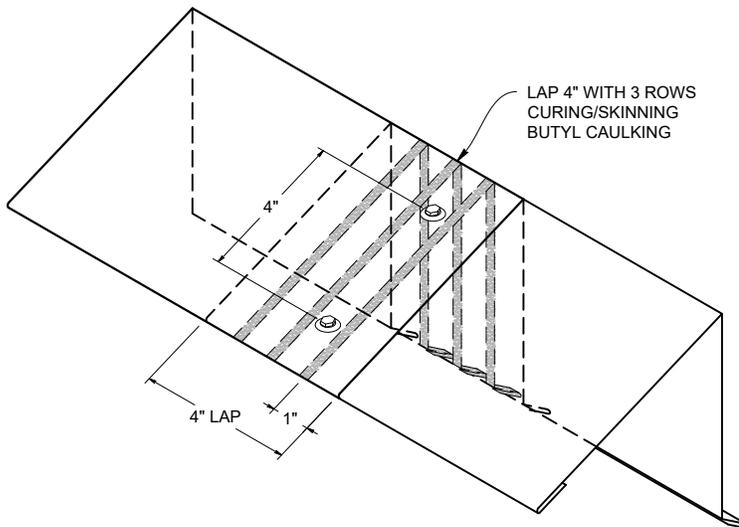
## PEAK FLASHING (MXR238REC)



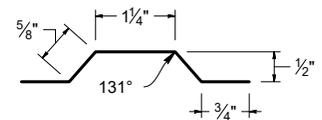
## PEAK CLEAT (MXR238RECC)



## PEAK FLASHING LAP



## HAT CHANNEL FLASHING

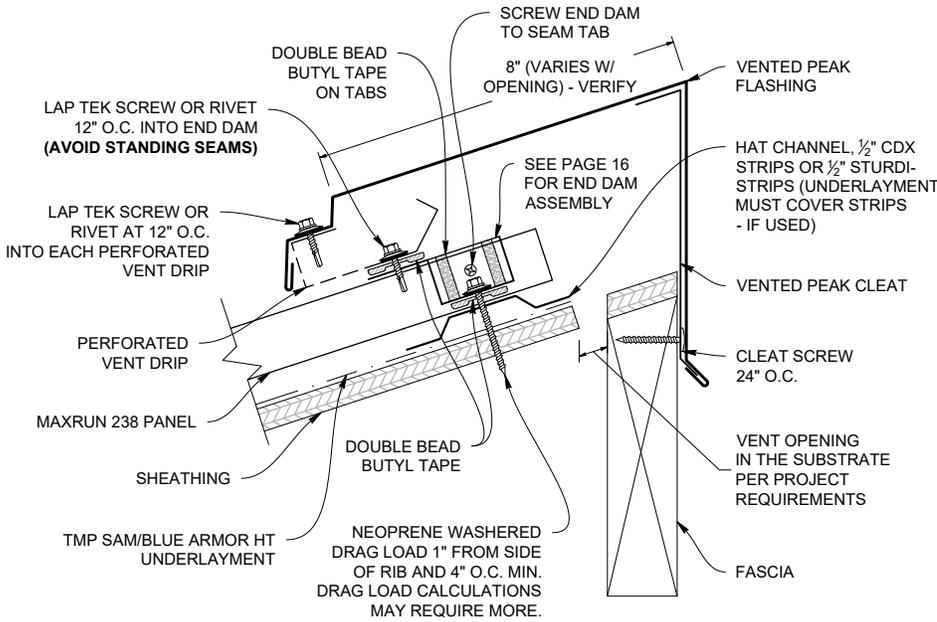


**Note:** All screws must be fastened into solid substrate.  
Flashing must be lapped 4" with 3 rows of gunnable butyl.

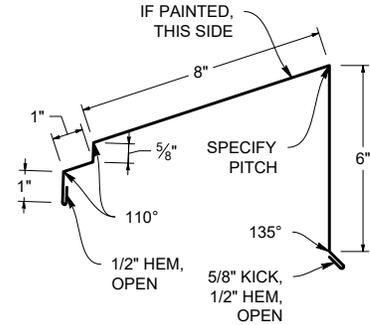
# Vented Peak Flashing

(Vented Ridge End Cap)

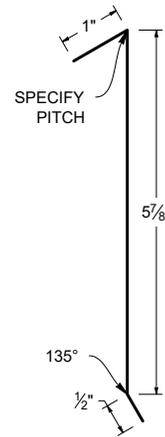
## WT VENTED PEAK FLASHING DETAIL (Vented Ridge End Cap)



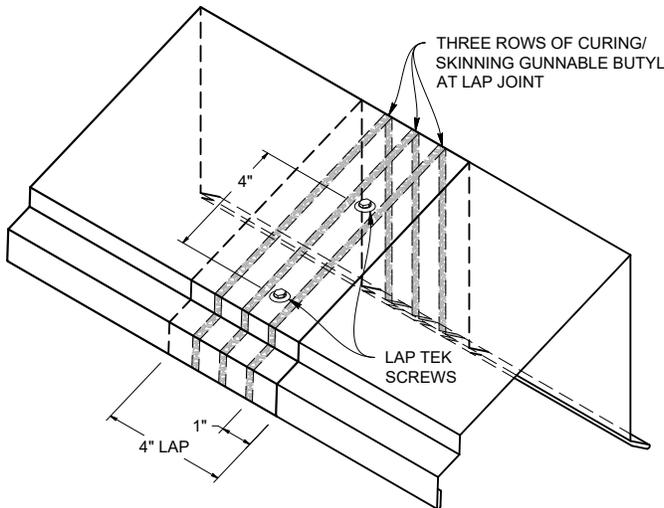
## WT PEAK FLASHING (MXR238WTRECV)



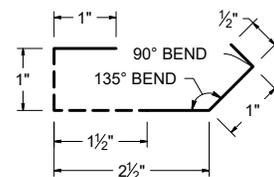
## VENTED PEAK CLEAT (MXR238VRECC)



## VENTED PEAK FLASHING LAP

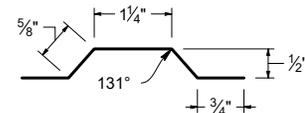


## PERFORATED VENT DRIP: E2886 EMBER RESISTANT (MXR238PVD)



**\*\*NOTE: PERFORATED VENT DRIP IS COMPATIBLE WITH WT VENTED RIDGE ONLY\*\***  
**\*\*7.25\" Free air per LFT for Ridge\*\***

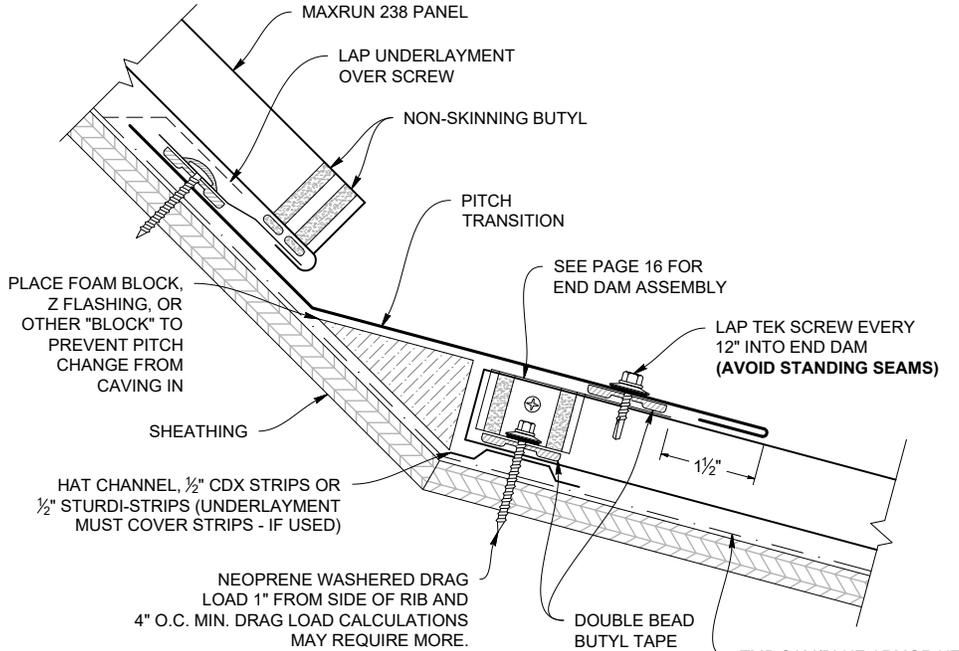
## HAT CHANNEL FLASHING



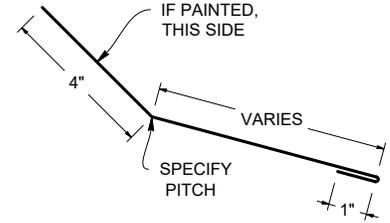
**Note:** All screws must be fastened into solid substrate.  
 Flashing must be lapped 4" with 3 rows of gunnable butyl.

# Pitch Change

## PITCH CHANGE DETAIL

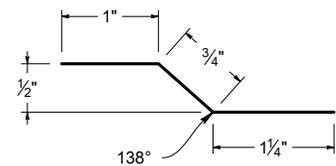


## INSIDE PITCH CHANGE FLASHING

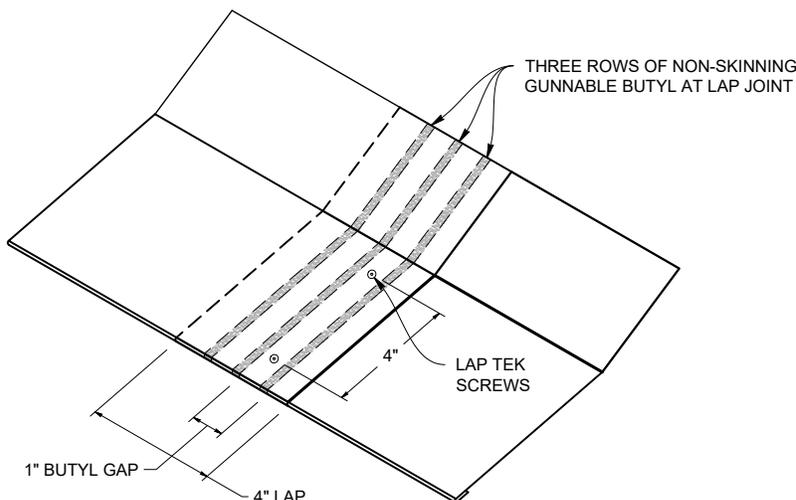


NOTE: Lesser slope transition will require wider flashings to assure positive slope. Please refer to page 46 for more information on pitches.

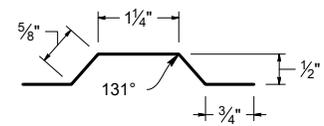
## OFFSET CLEAT (MXR238OC)



## PITCH CHANGE LAP

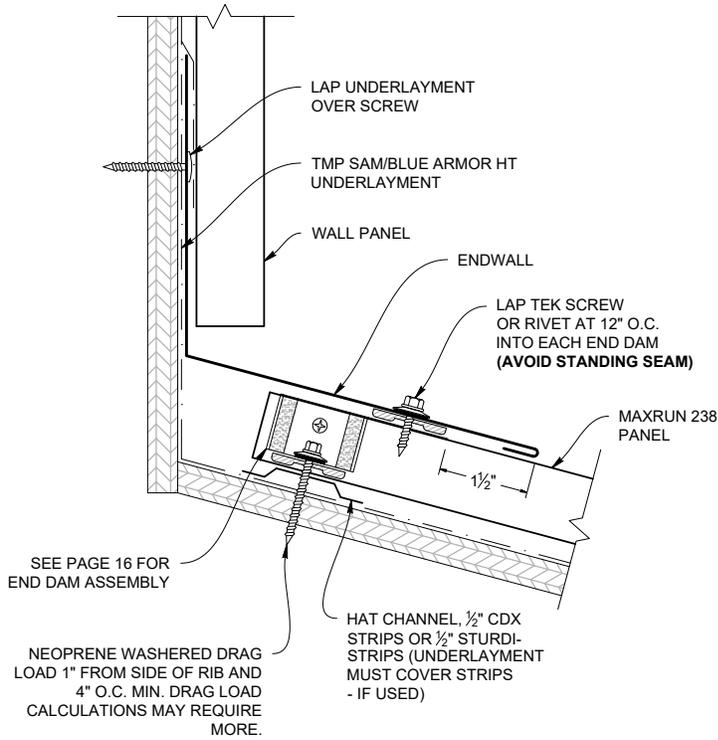


## HAT CHANNEL FLASHING

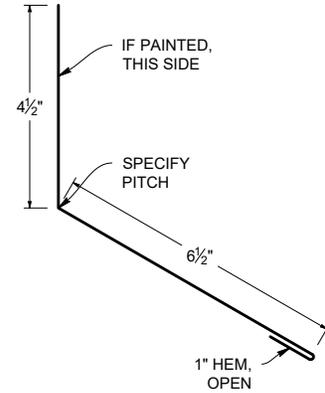


**Note:** All screws must be fastened into solid substrate. Flashing must be lapped 4" with 3 rows of gunnable butyl.

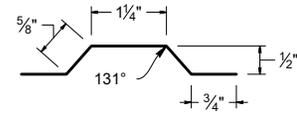
### ENDWALL DETAIL



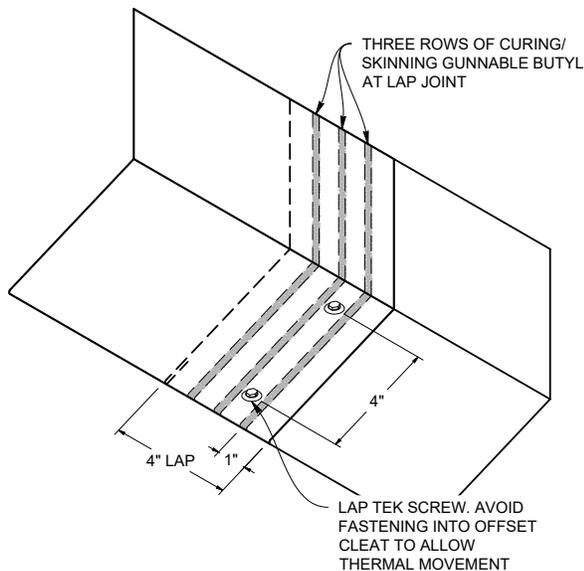
### ENDWALL (MXR238EW)



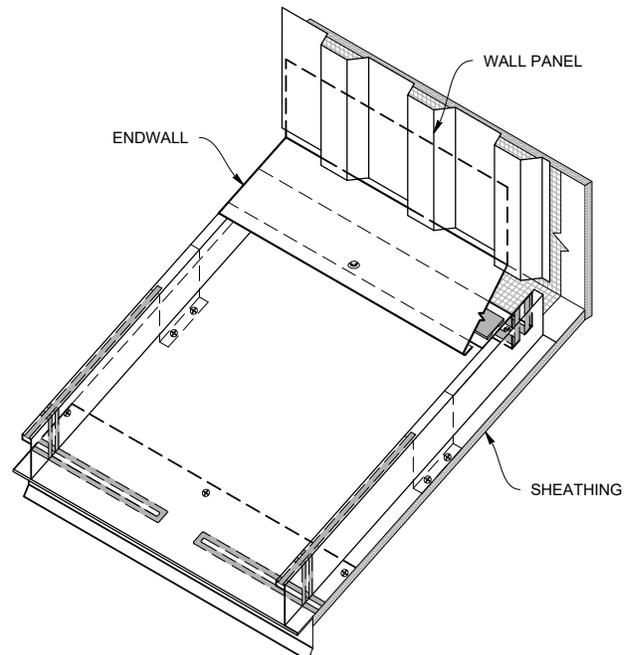
### HAT CHANNEL FLASHING



### ENDWALL LAP



### ENDWALL DETAIL

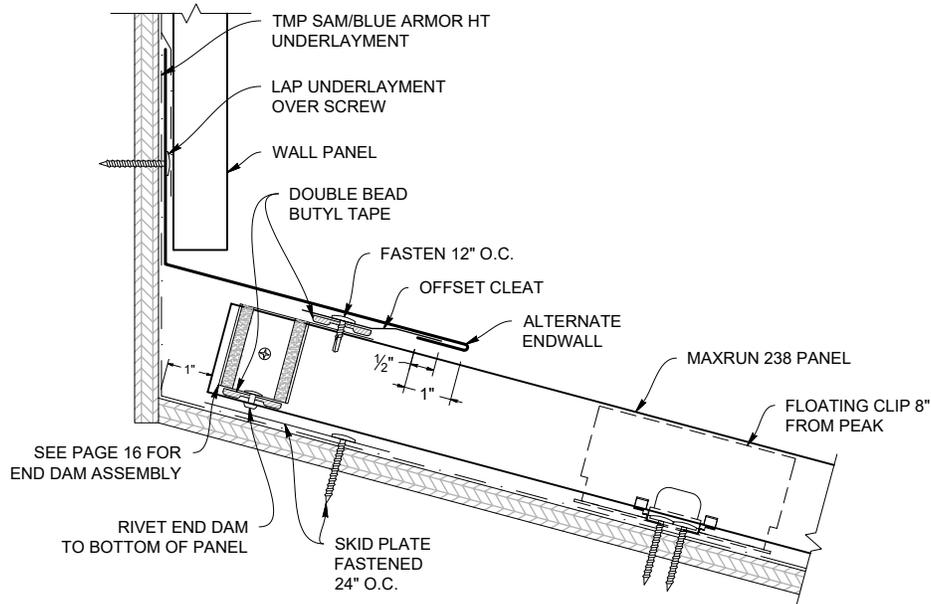


**Note:** All screws must be fastened into solid substrate.  
Flashing must be lapped 4" with 3 rows of gunnable butyl.

# Floating Endwall

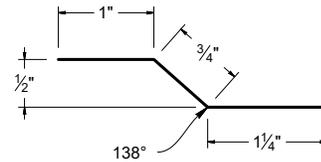
For pinned panels

## FLOATING ENDWALL DETAIL

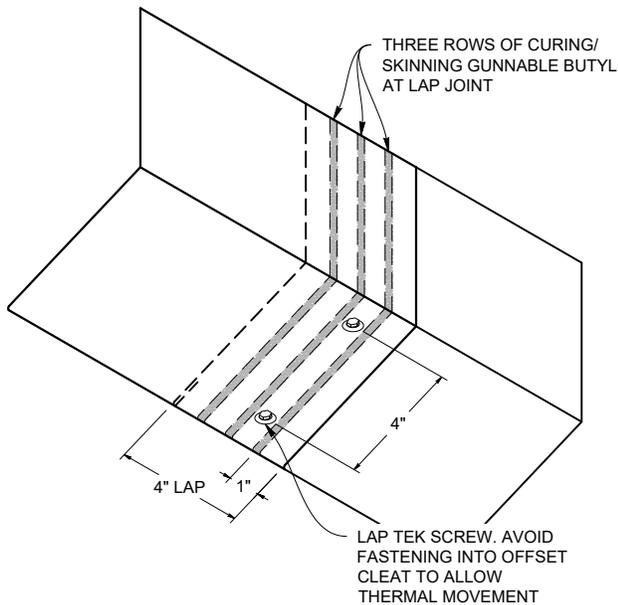


Note: Required when the panel is "pinned" at the eave or valley

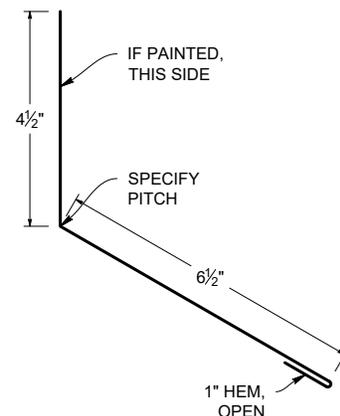
### OFFSET CLEAT (MXR238OC)



### ENDWALL LAP

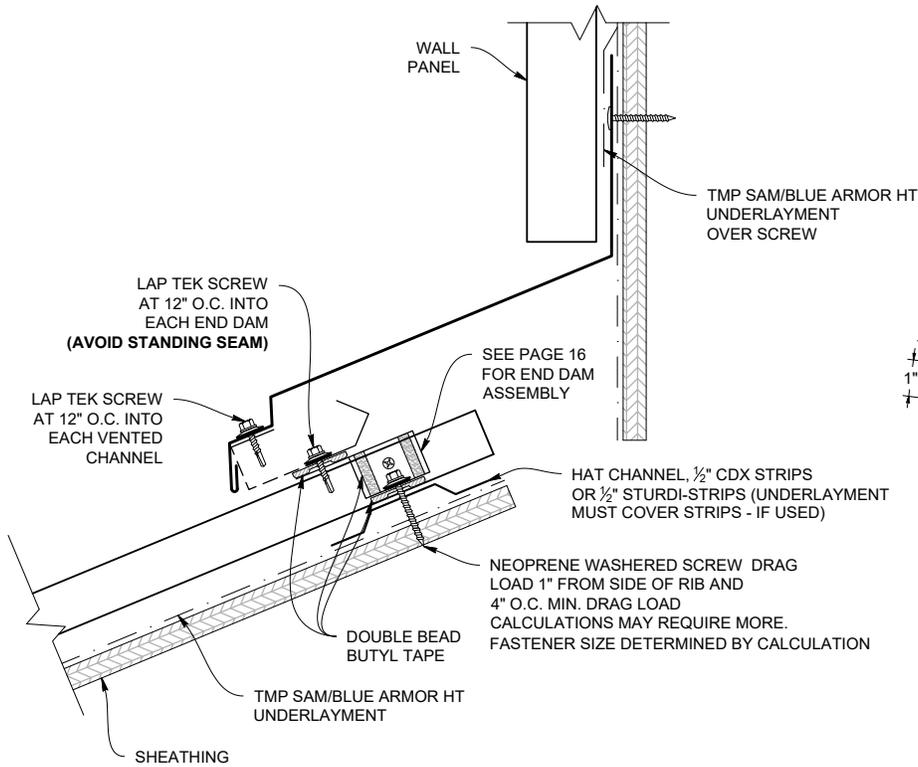


### ENDWALL (MXR238EW)

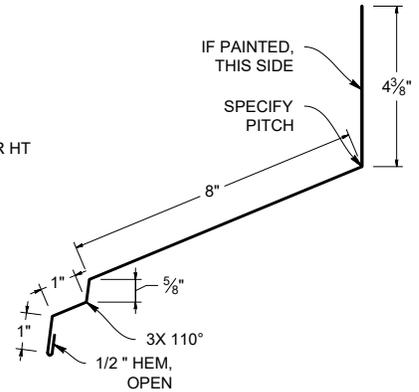


**Note:** All screws must be fastened into solid substrate. Flashing must be lapped 4" with 3 rows of gunnable butyl.

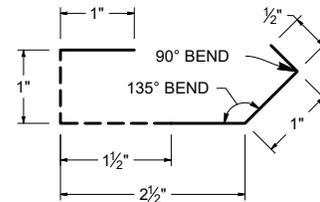
## WT VENTED ENDWALL DETAIL



## WT VENTED ENDWALL (MXR238WTEWV)

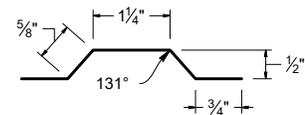


## PERFORATED VENT DRIP: E2886 EMBER RESISTANT (MXR238PVD)

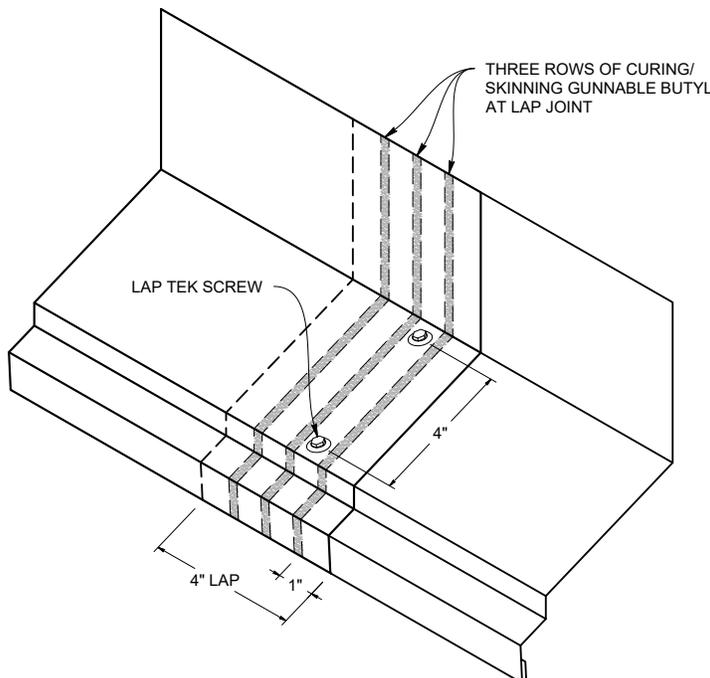


**\*\*NOTE: PERFORATED VENT DRIP IS COMPATIBLE WITH WT VENTED RIDGE ONLY\*\***  
**\*\*7.25" Free air per LFT for Ridge\*\***

## HAT CHANNEL FLASHING



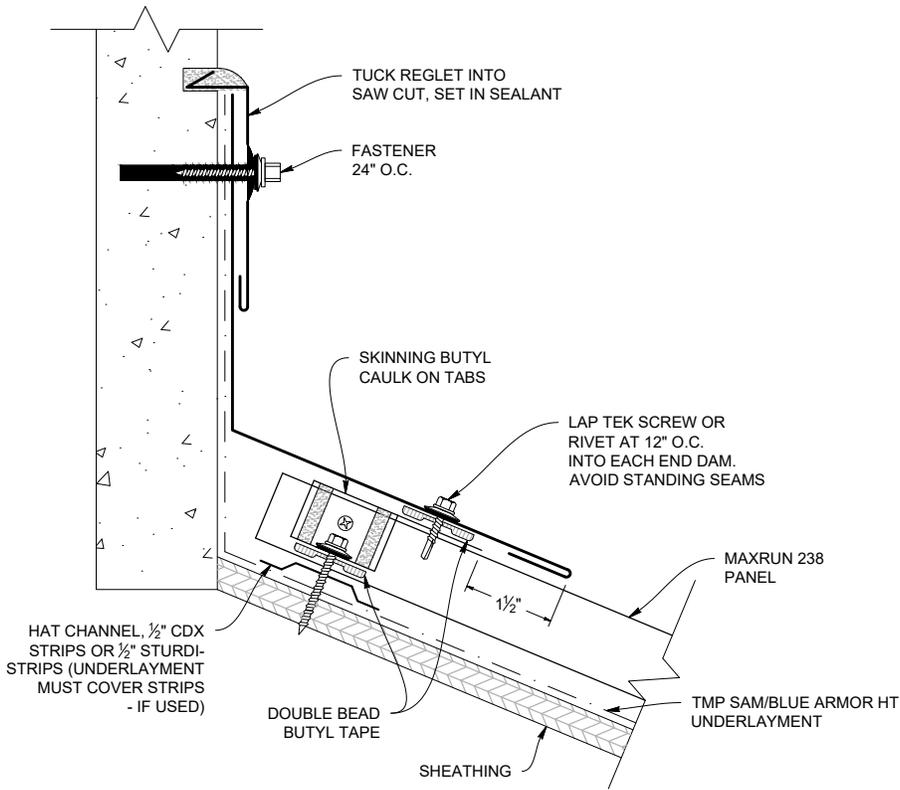
## VENTED ENDWALL LAP



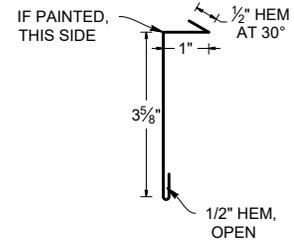
**Note:** All screws must be fastened into solid substrate.  
 Flashing must be lapped 4" with 3 rows of gunnable butyl.

# Endwall w/ Saw Cut Reglet

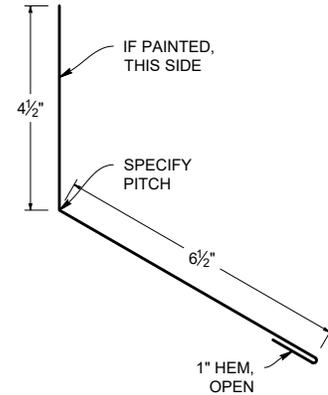
## SAW CUT ENDWALL DETAIL



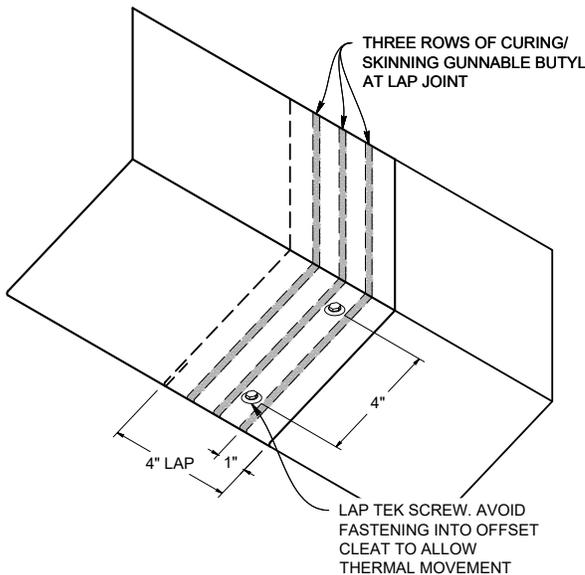
### REGLET (MXR238RF)



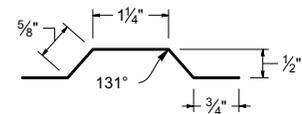
### ENDWALL (MXR238EW)



## ENDWALL LAP

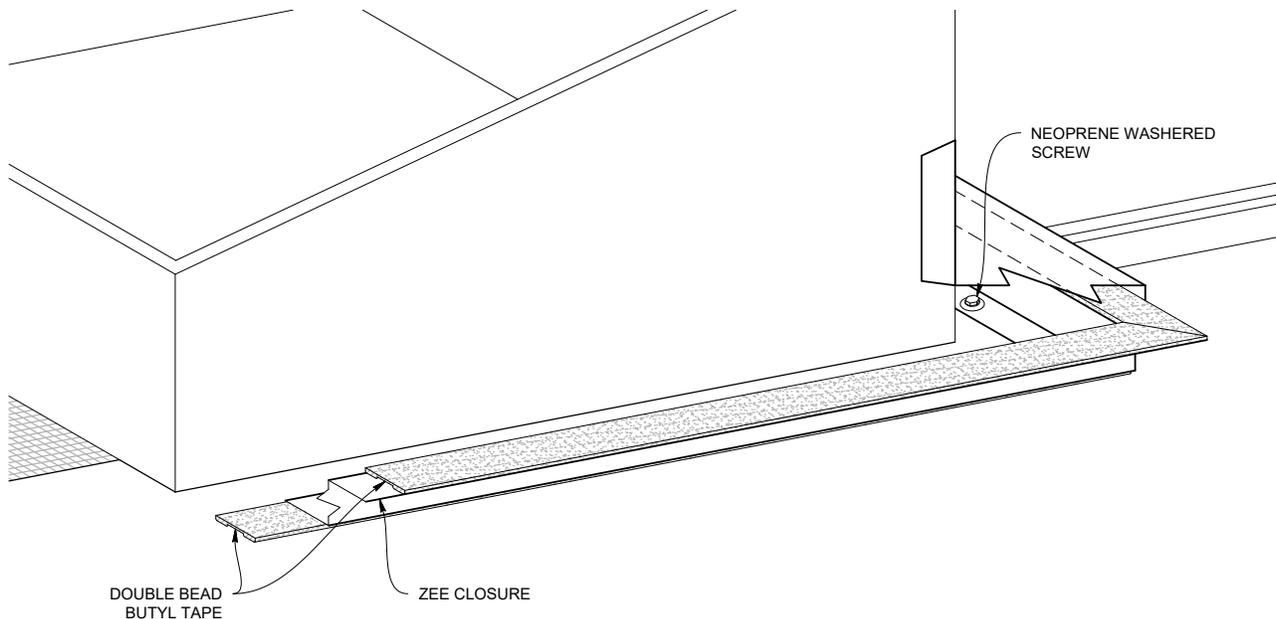


### HAT CHANNEL FLASHING

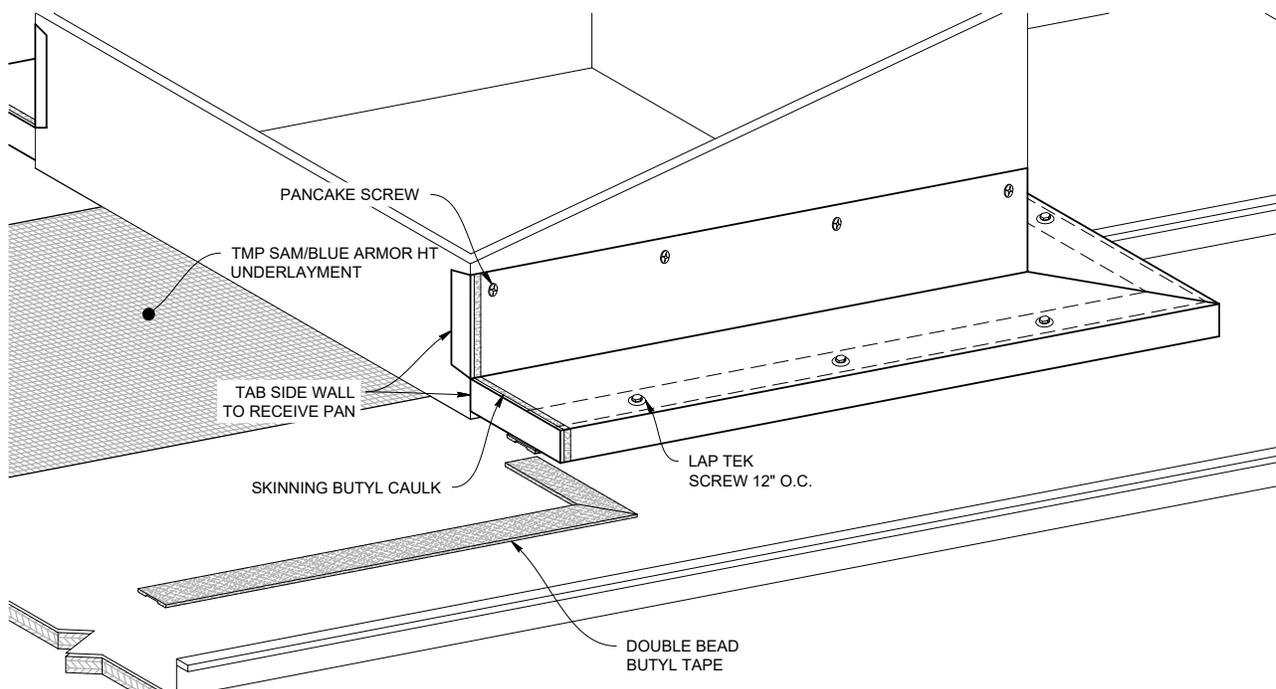


**Note:** All screws must be fastened into solid substrate.  
Flashing must be lapped 4" with 3 rows of gunnable butyl.

## STEP 1



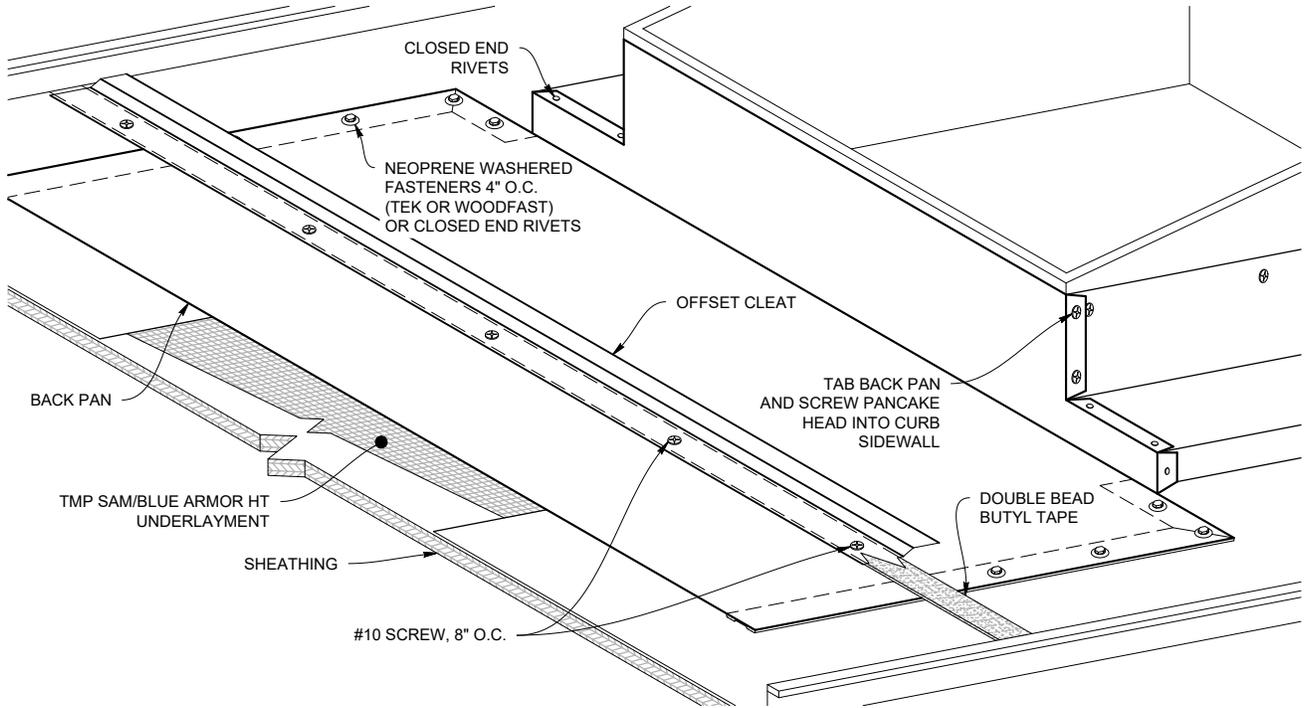
## STEP 2



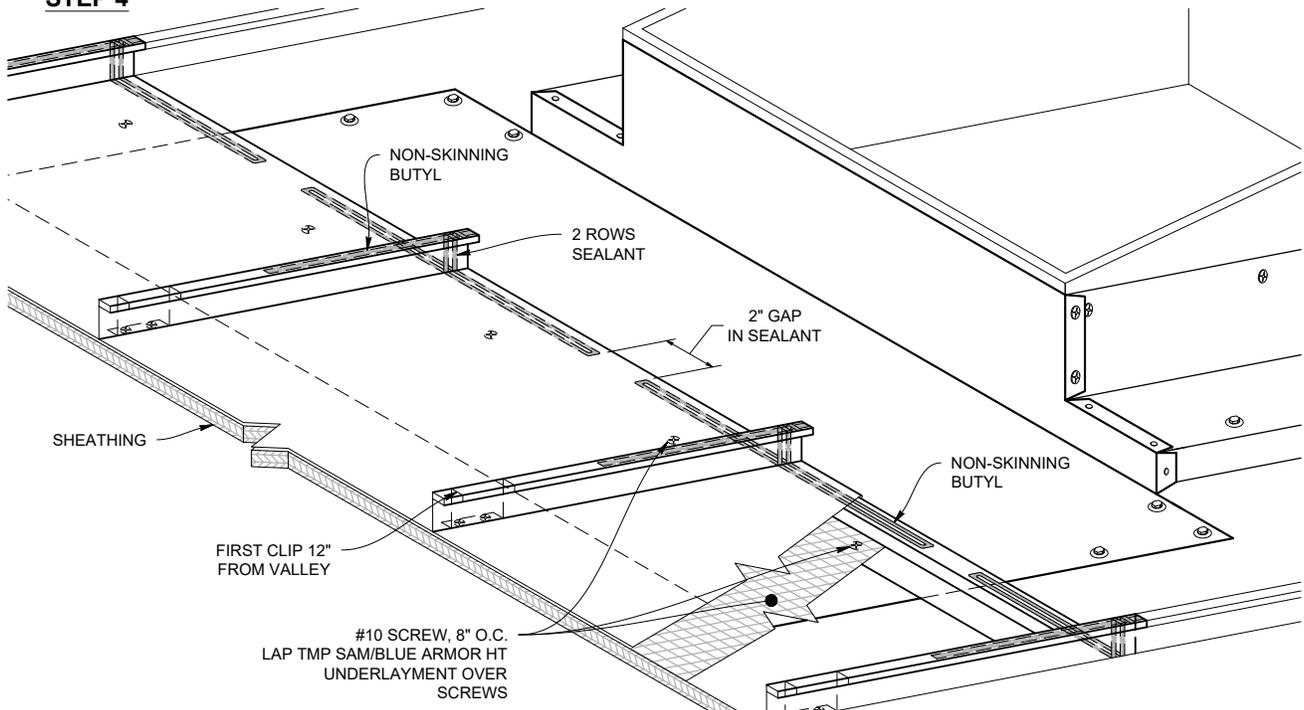
**Note:** All screws must be fastened into solid substrate.  
Flashing must be lapped 4" with 3 rows of gunnable butyl.

# Curb Back Pan / Cricket

## STEP 3

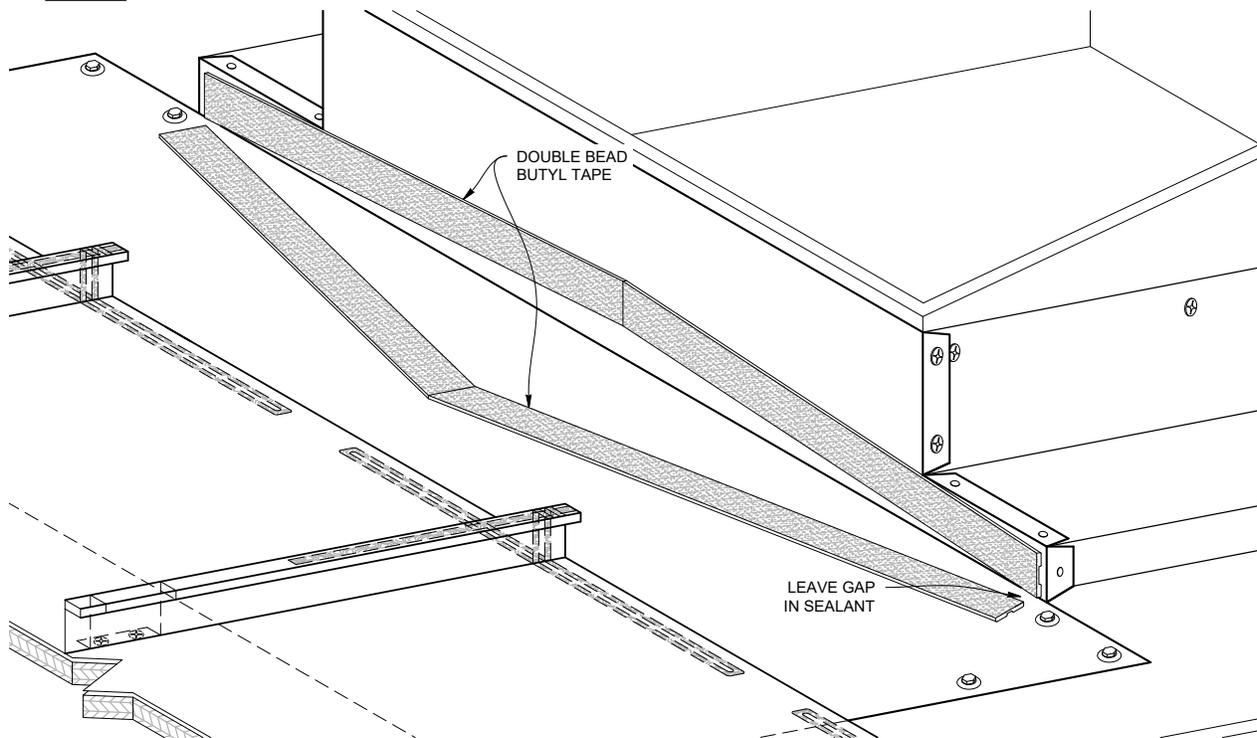


## STEP 4

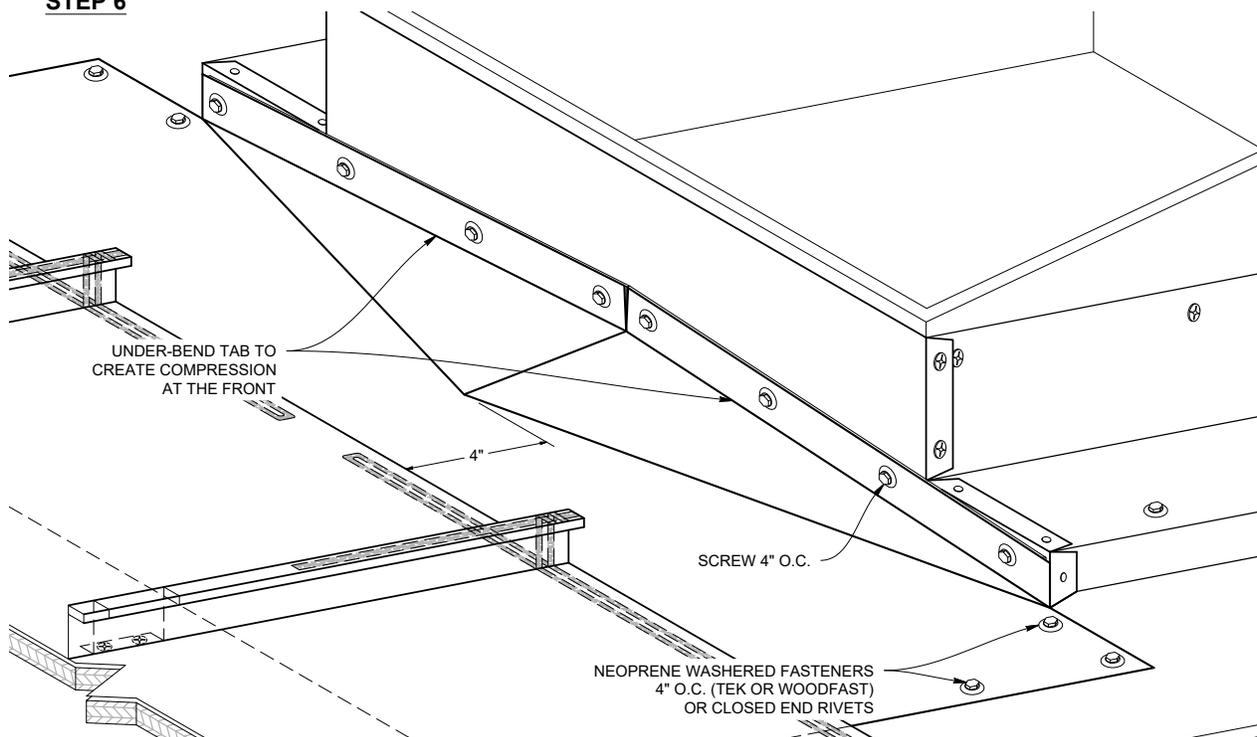


**Note:** All screws must be fastened into solid substrate.  
Flashing must be lapped 4" with 3 rows of gunnable butyl.

**STEP 5**

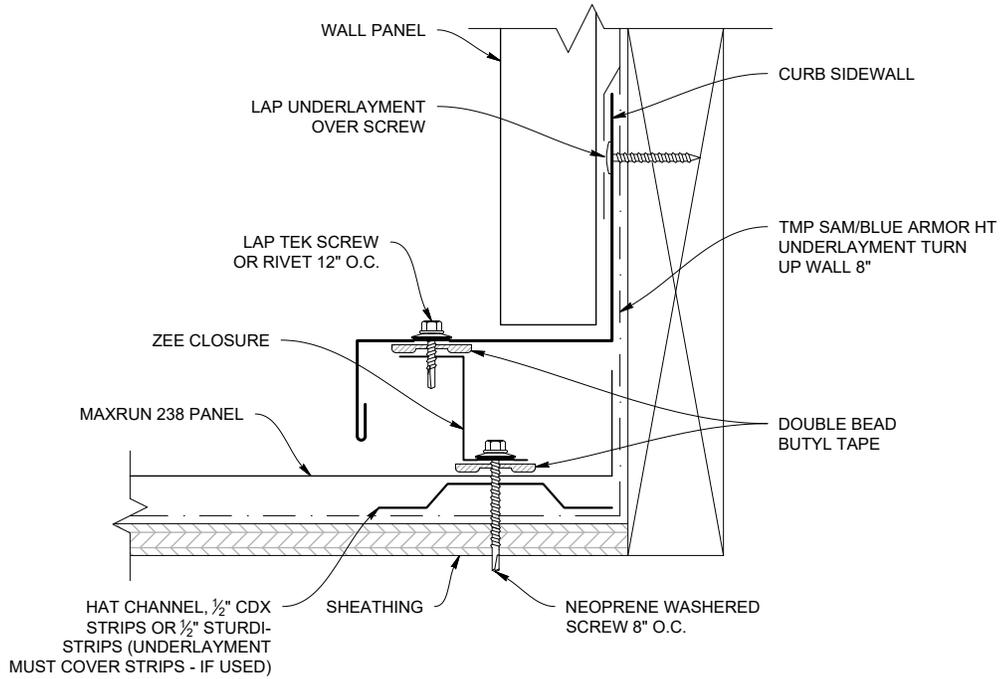


**STEP 6**

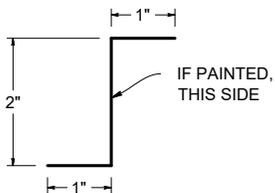


**Note:** All screws must be fastened into solid substrate.  
Flashing must be lapped 4" with 3 rows of gunnable butyl.

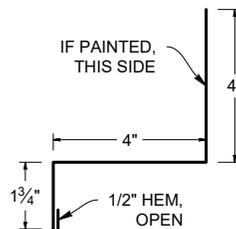
## CURB SIDEWALL DETAIL



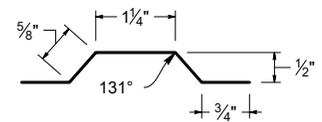
### ZEE CLOSURE (MXR238ZC)



### CURB SIDEWALL (MXR238CSW)

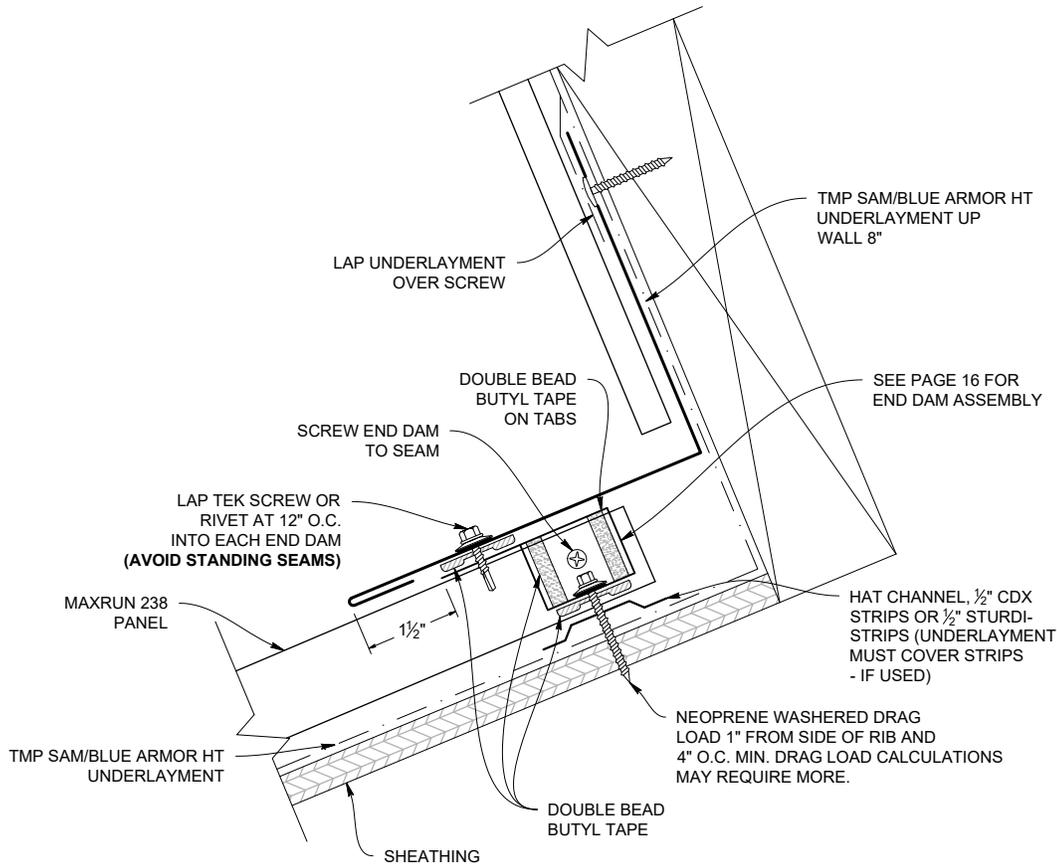


### HAT CHANNEL FLASHING

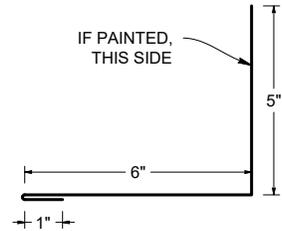


**Note:** All screws must be fastened into solid substrate.  
Flashing must be lapped 4" with 3 rows of gunnable butyl.

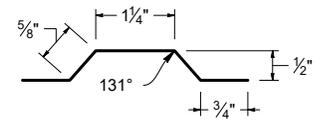
## CURB ENDWALL DETAIL



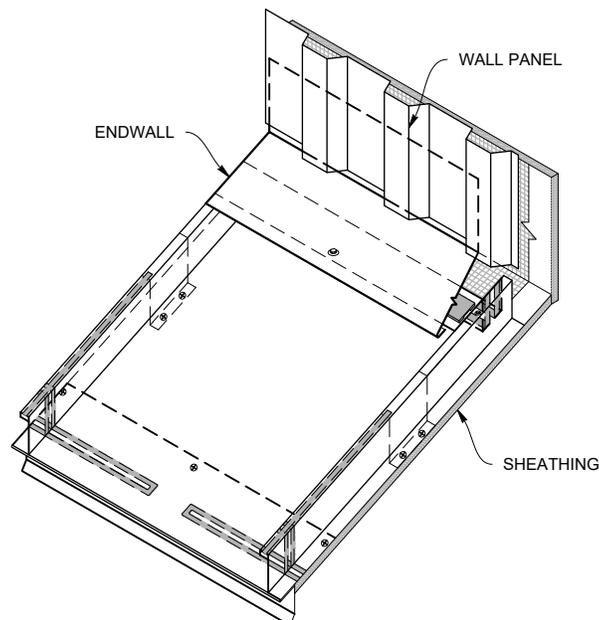
## CURB ENDWALL (MXR238CH)



## HAT CHANNEL FLASHING



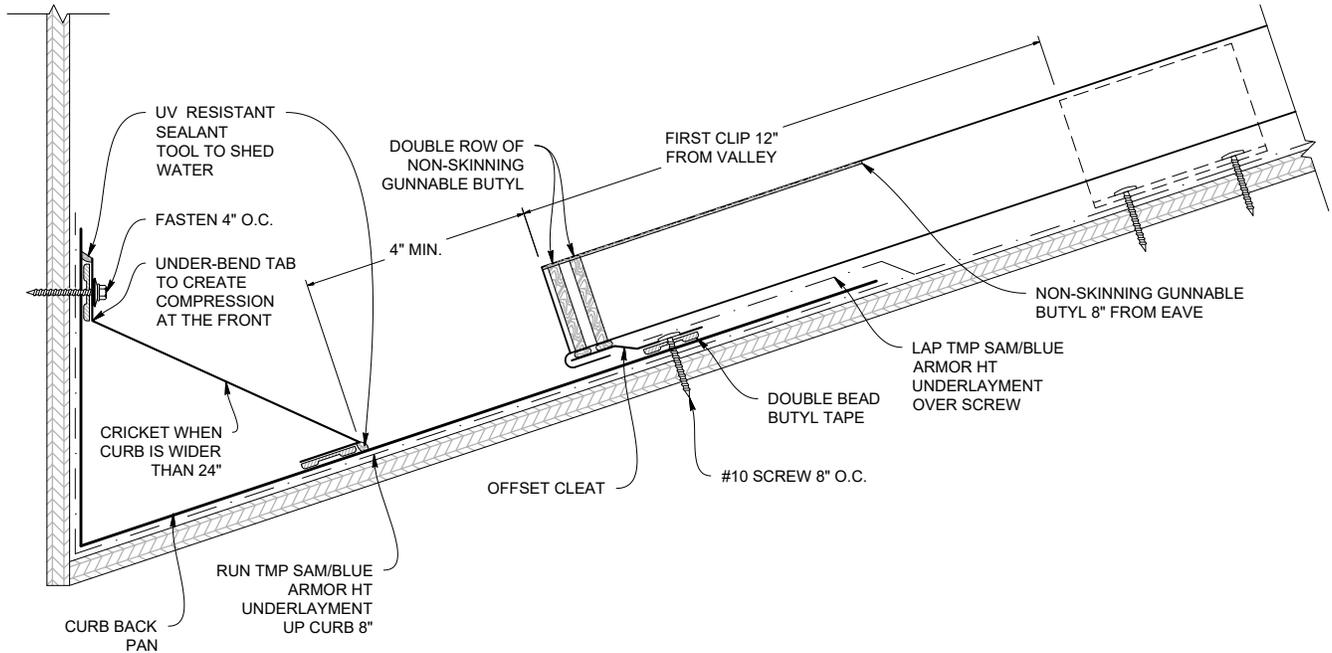
## ENDWALL DETAIL



**Note:** All screws must be fastened into solid substrate.  
Flashing must be lapped 4" with 3 rows of gunnable butyl.

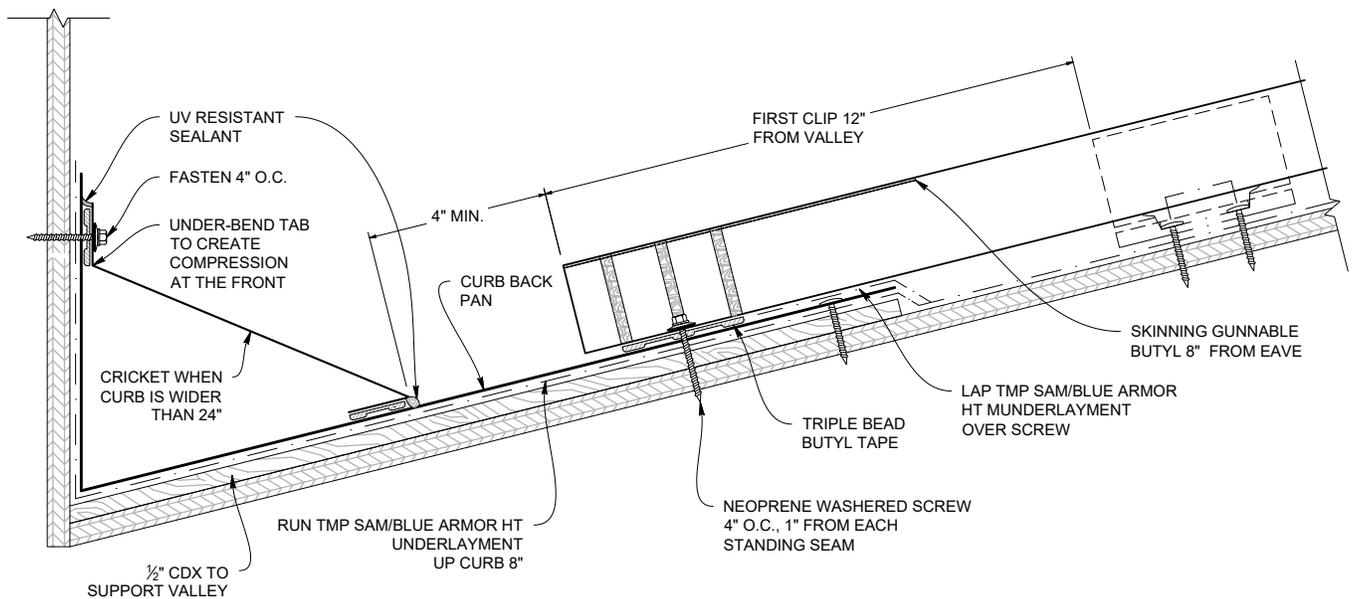
# Curb Back Pan / Cricket

## CURB BACK PAN / CRICKET DETAIL (3:12 Pitch or Greater)



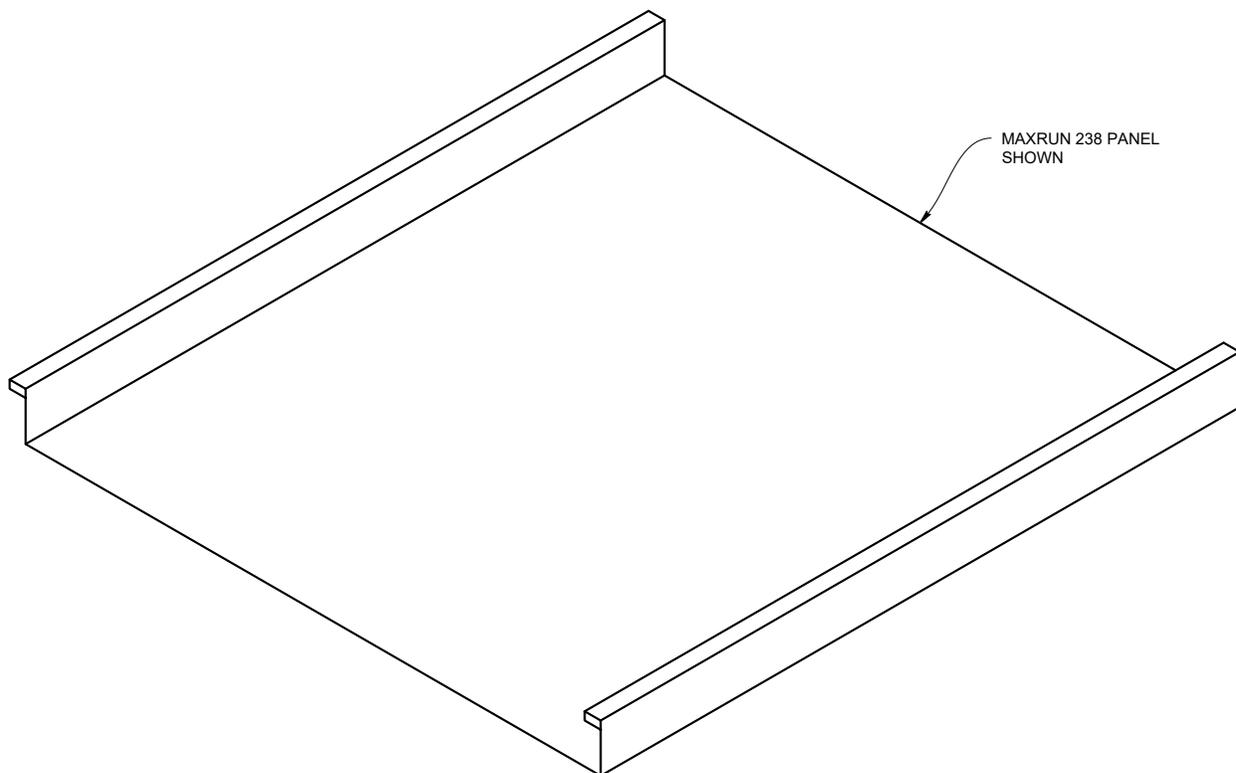
## CURB BACK PAN / CRICKET DETAIL (Less Than 3:12 Pitch)

Note: Panel must be allowed to "float" at the top ridge, endwall, or peak condition.

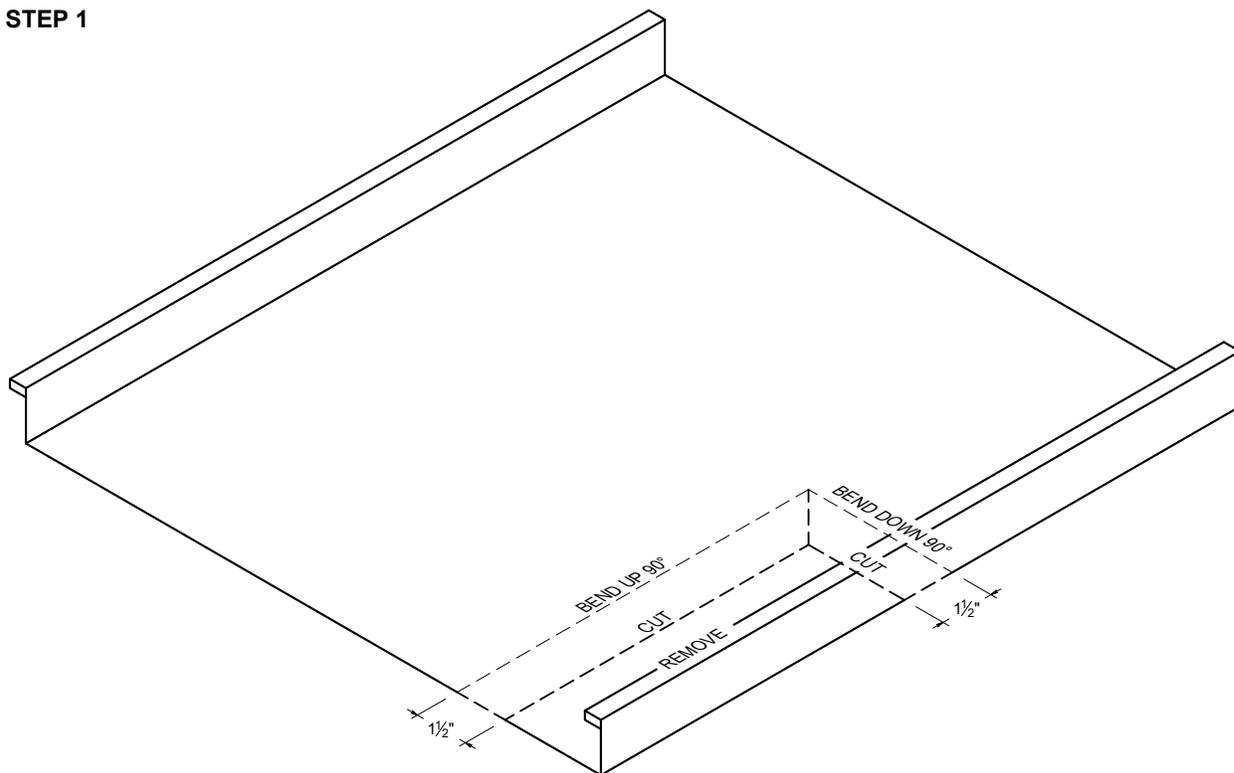


**Note:** All screws must be fastened into solid substrate.  
Flashing must be lapped 4" with 3 rows of gunnable butyl.

## EAVE TO GABLE TRANSITION

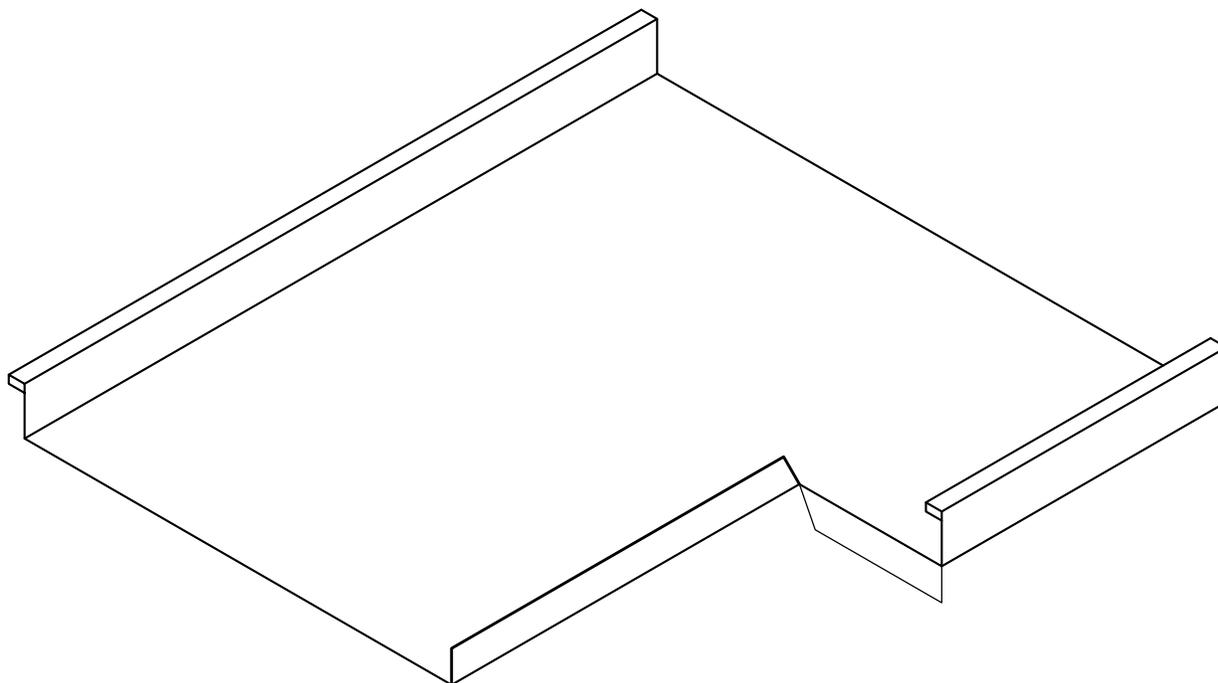


### STEP 1

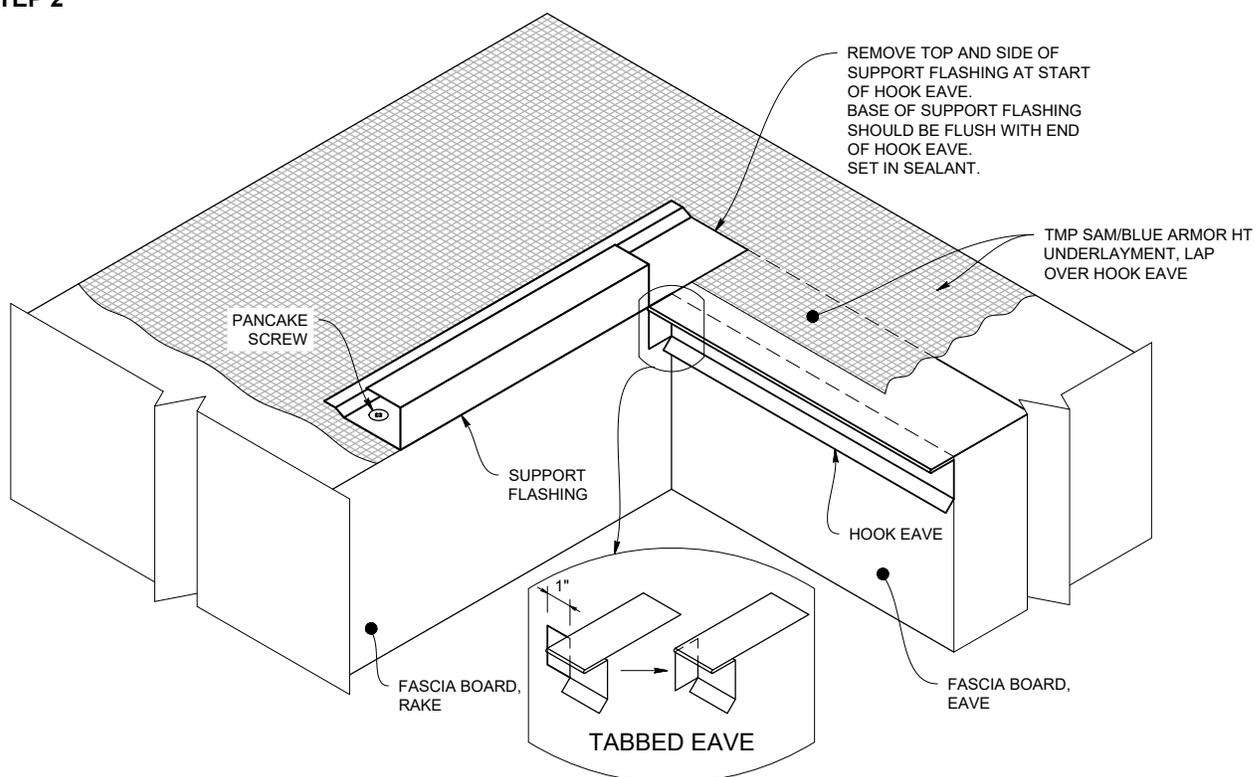


**Note:** All screws must be fastened into solid substrate.  
Flashing must be lapped 4" with 3 rows of gunnable sealant.

# Eave to Gable Transition

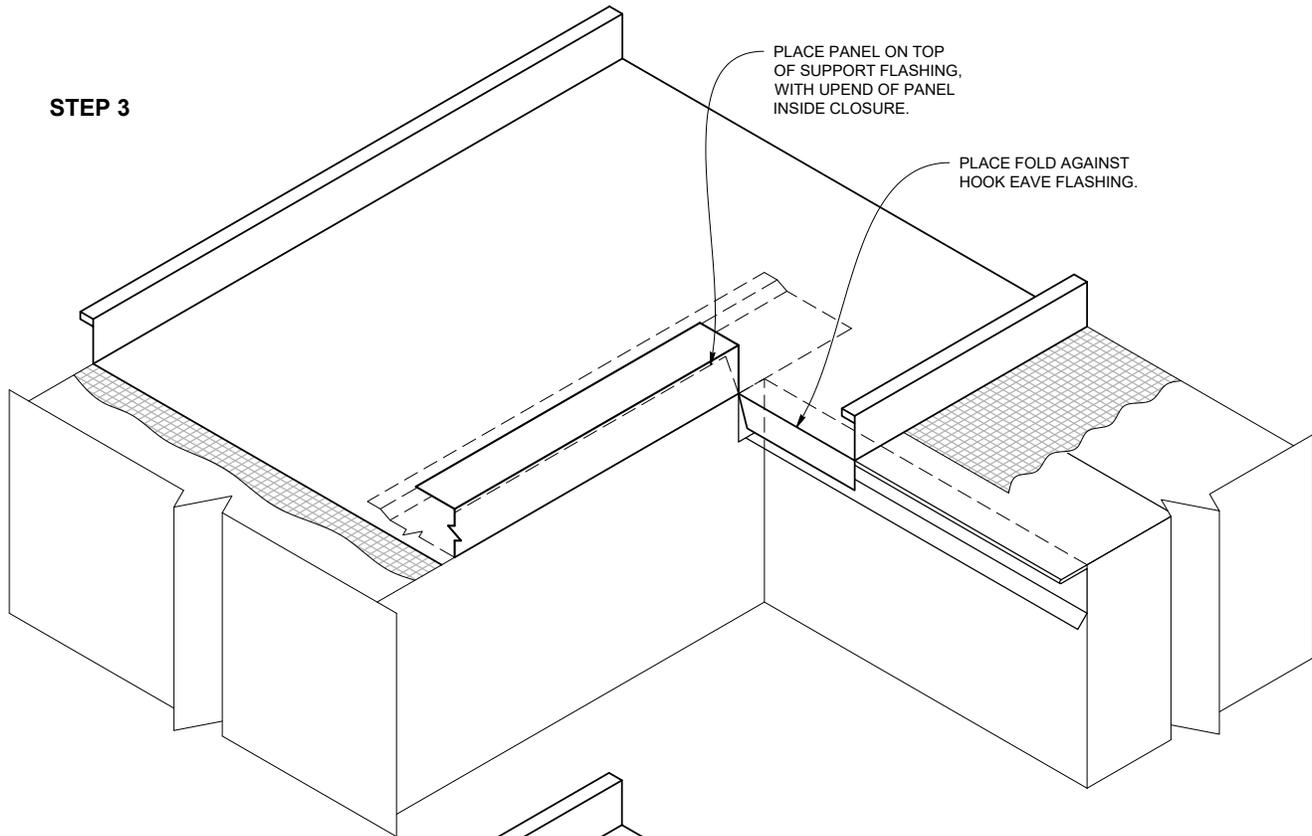


## STEP 2

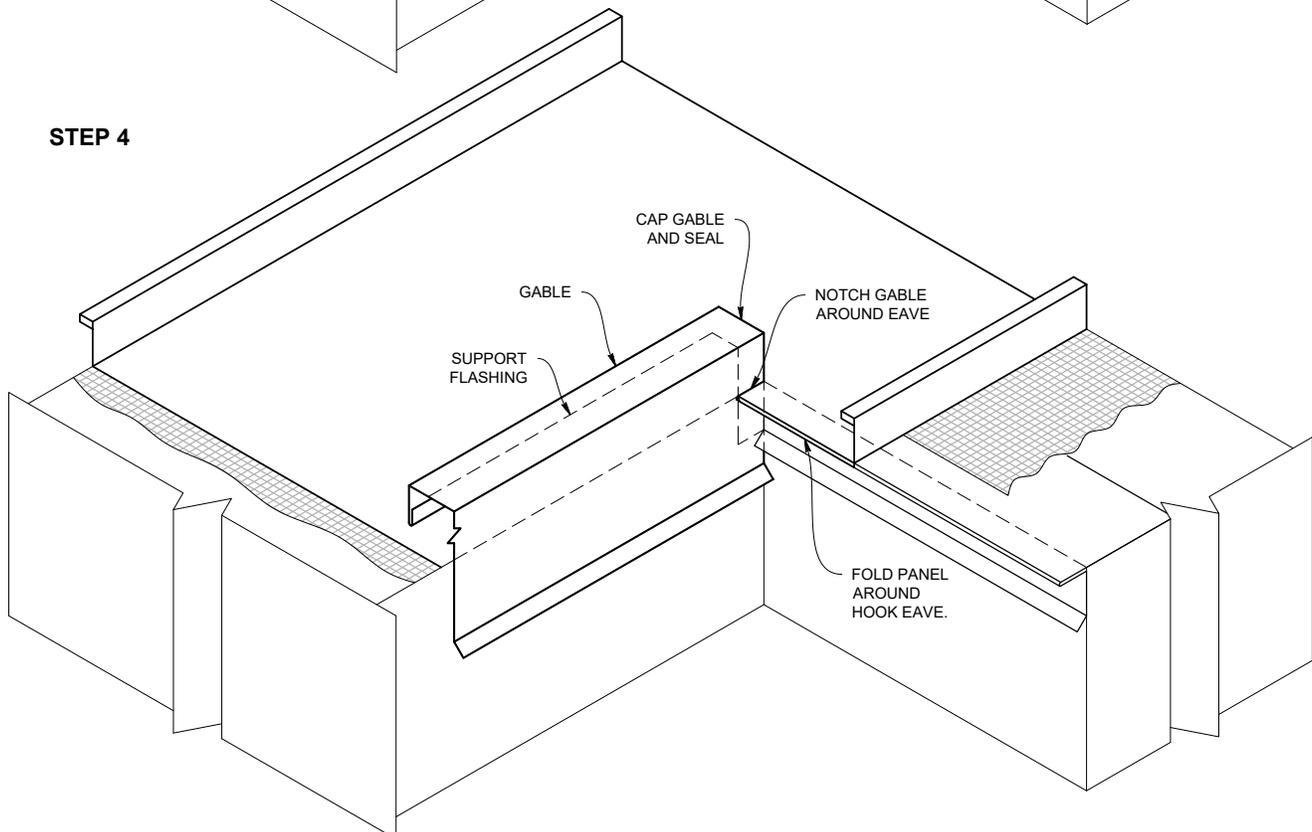


**Note:** All screws must be fastened into solid substrate.  
Flashing must be lapped 4" with 3 rows of gunnable sealant.

## STEP 3



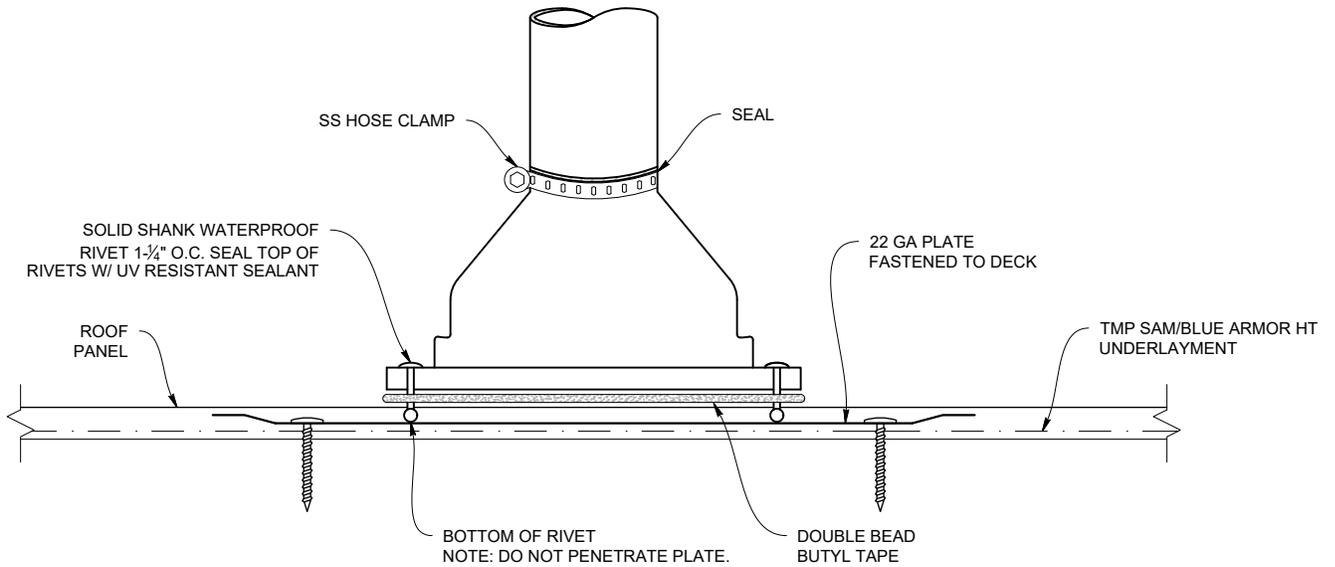
## STEP 4



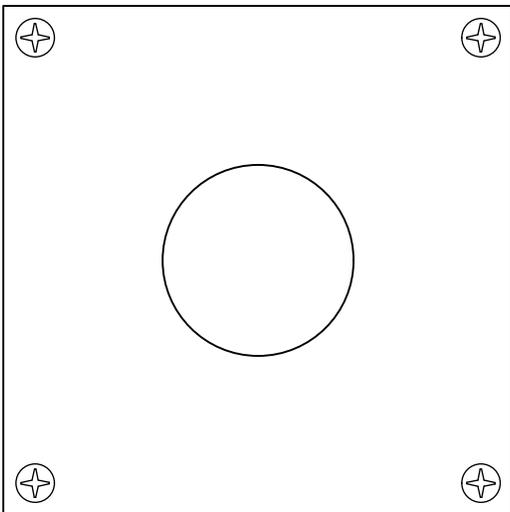
**Note:** All screws must be fastened into solid substrate.  
Flashing must be lapped 4" with 3 rows of gunnable sealant.

# Pipe Penetration - on Plate

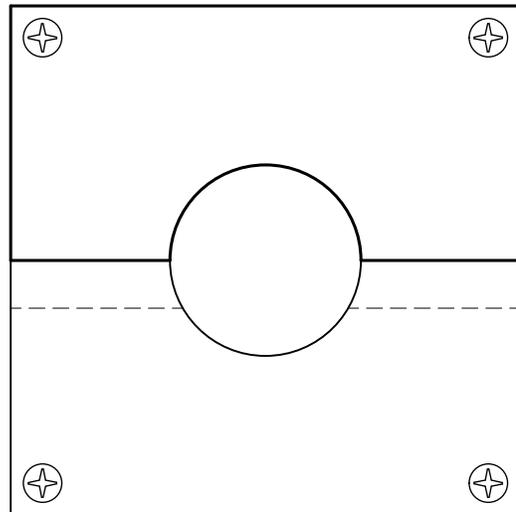
FOR PIPES LOCATED GREATER THAN 20' FROM PIN POINT  
(Allows panel and pipe flashing to move with temperature change.)



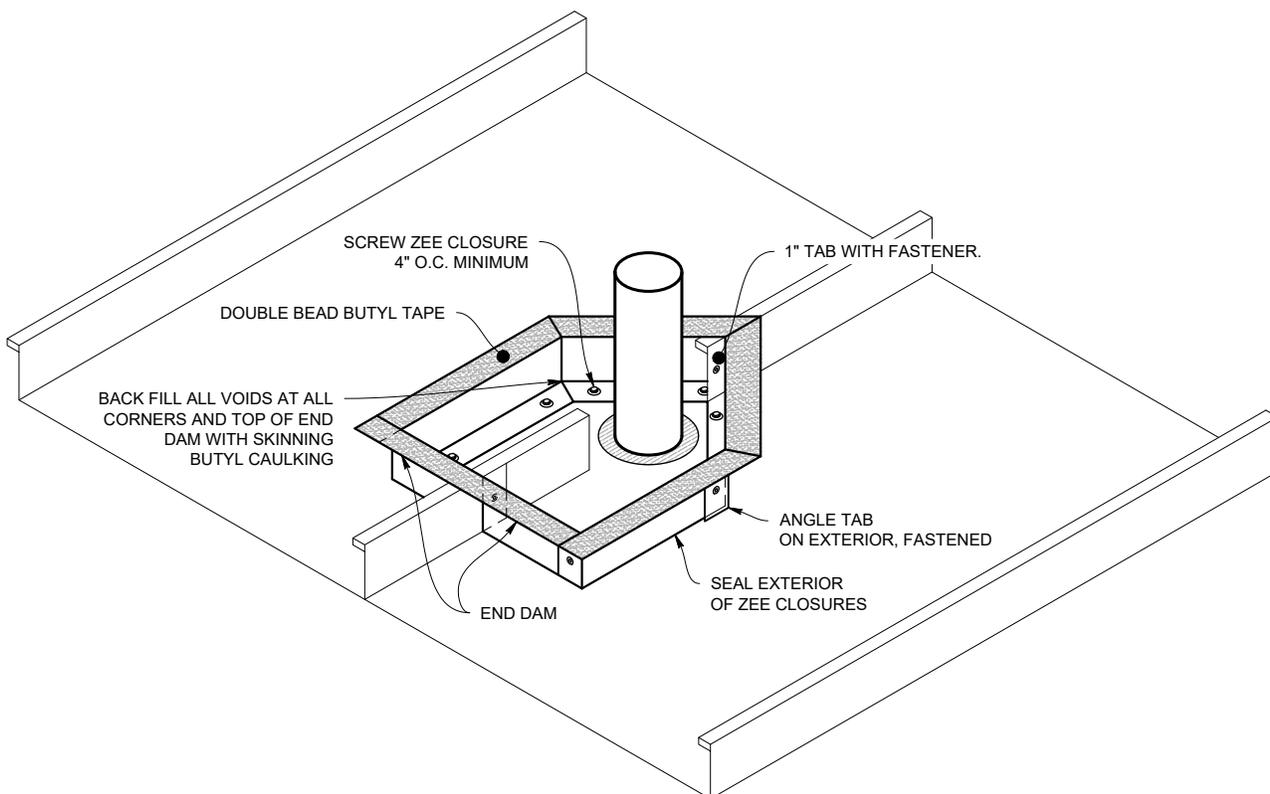
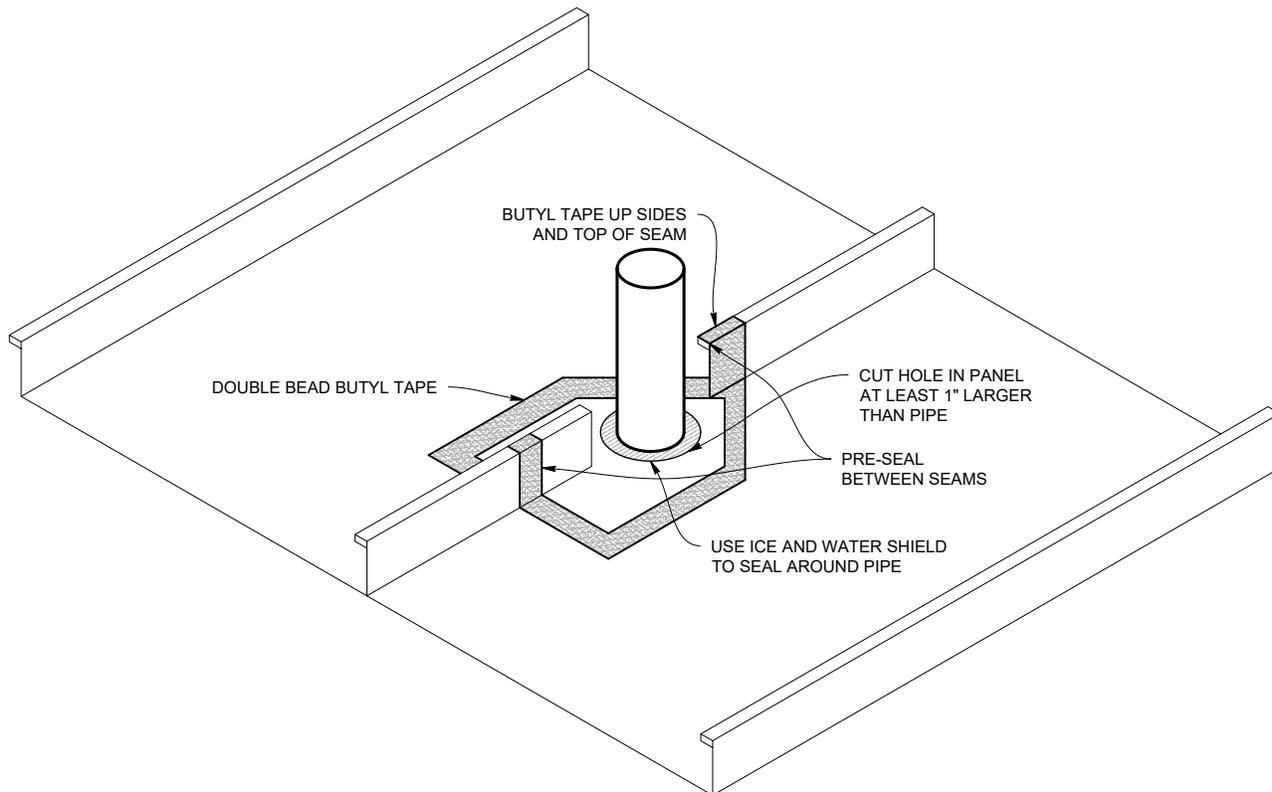
TWO TYPES OF PLATES YOU CAN USE:



SINGLE 22 GAUGE PLATE

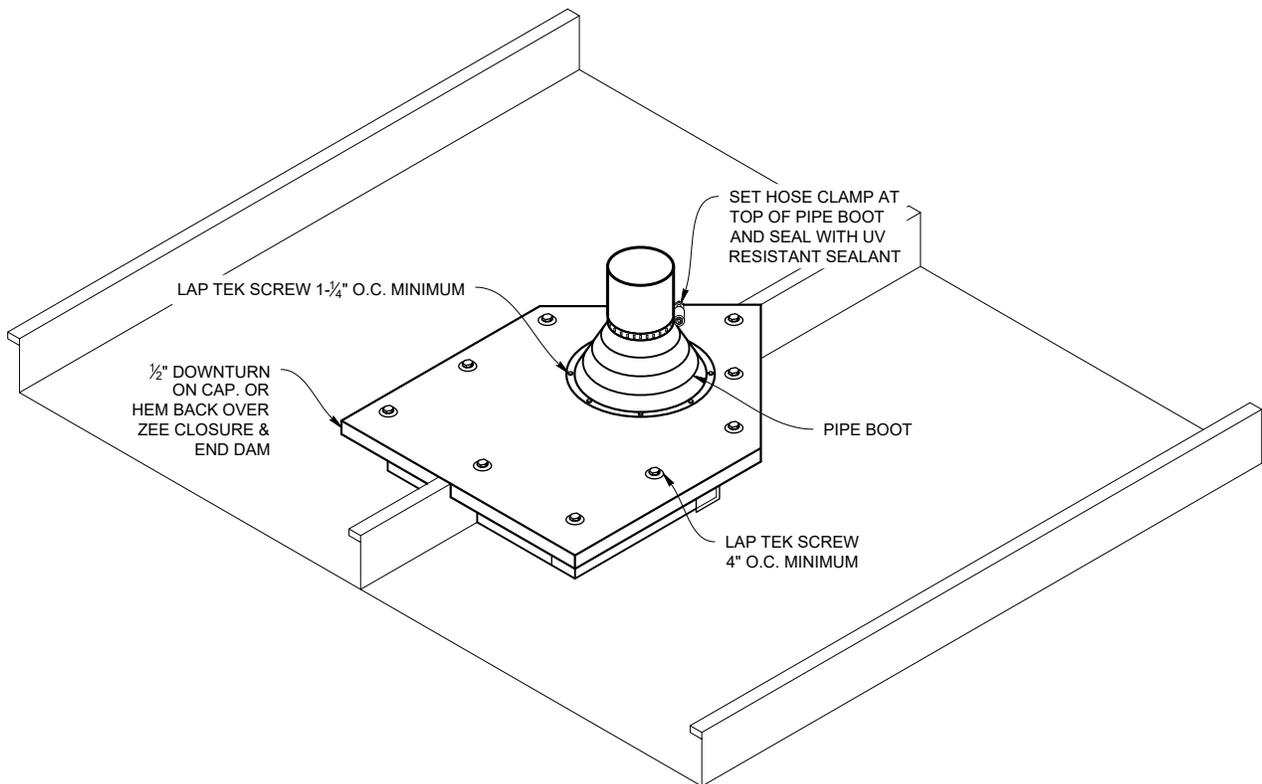
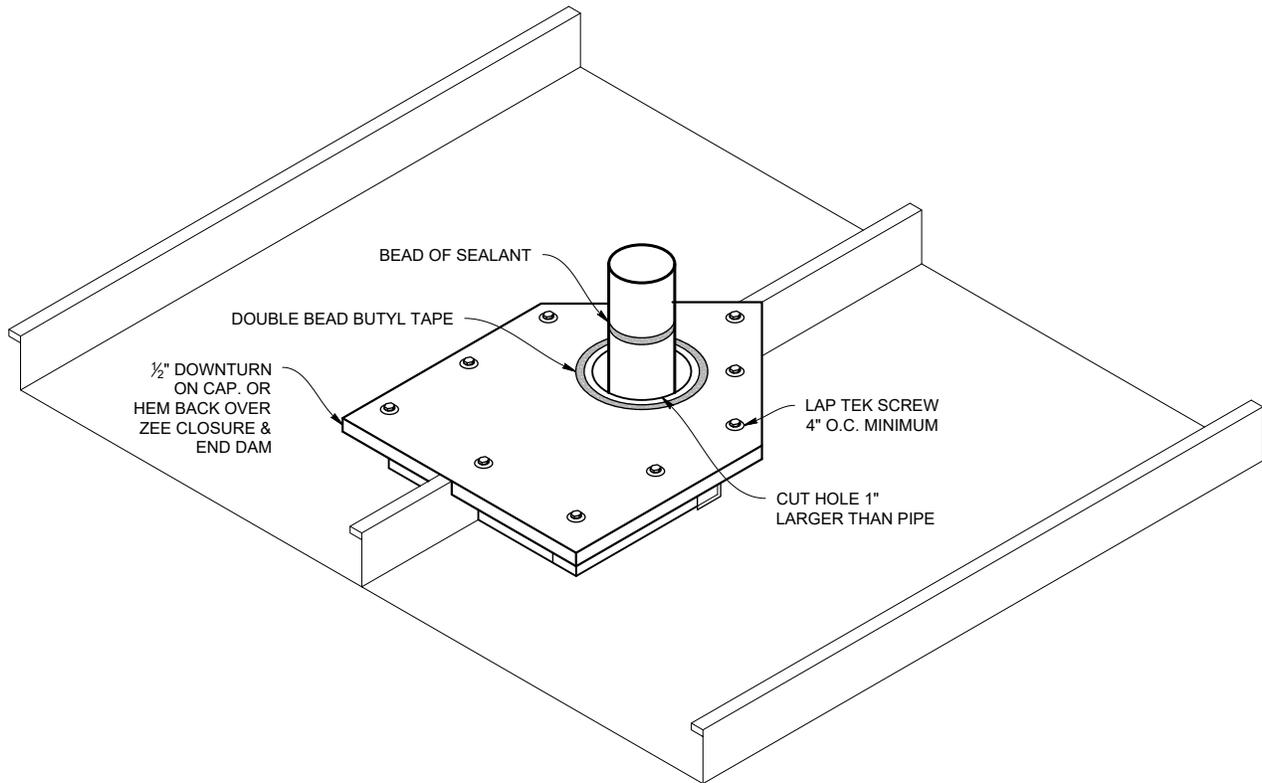


TWO OVERLAPPING 22 GAUGE PLATES

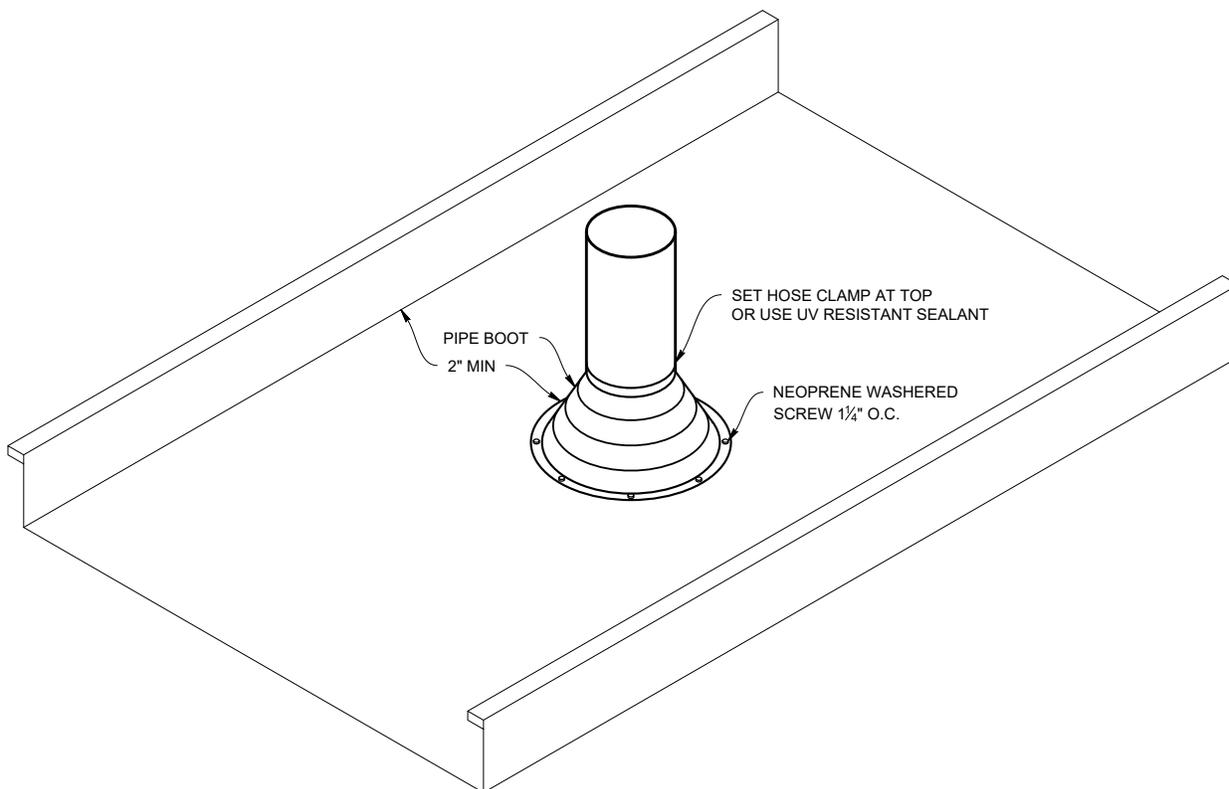
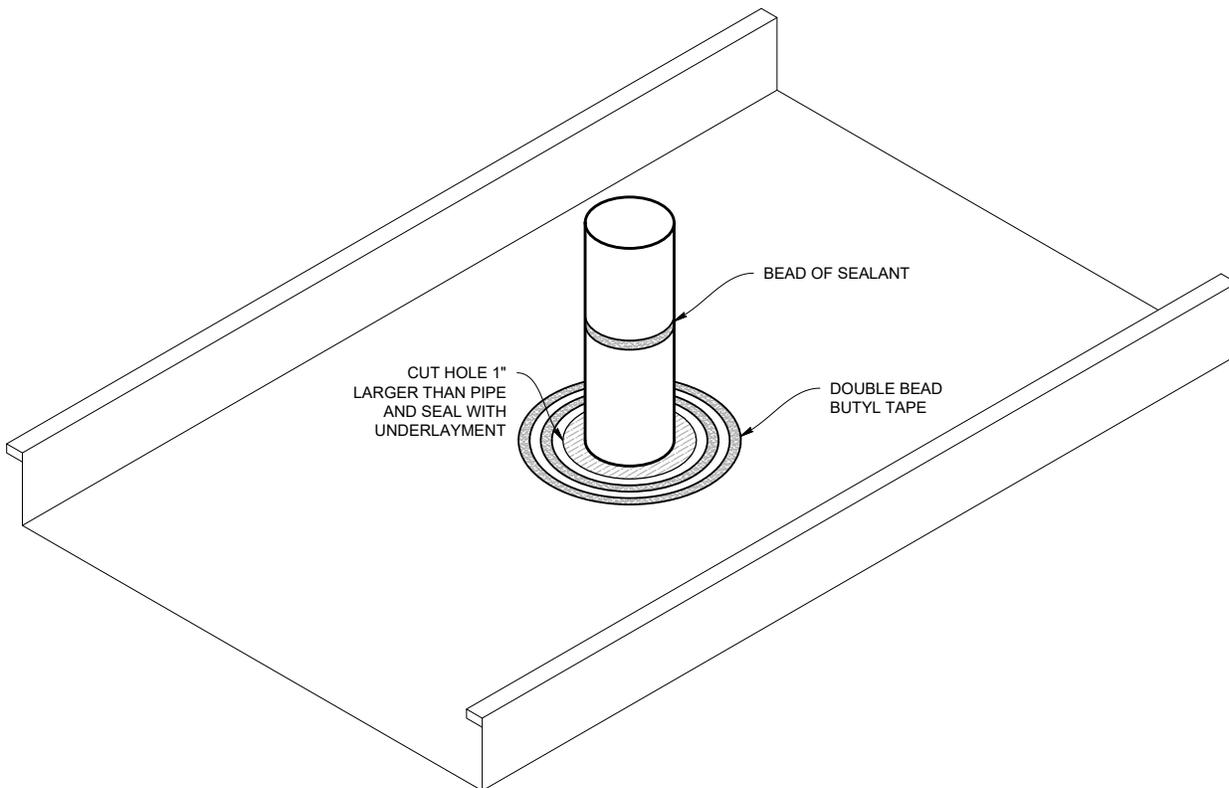


**Note:** All screws must be fastened into solid substrate.  
Flashing must be lapped 4" with 3 rows of gunnable sealant.

# Pipe Penetration - on Rib



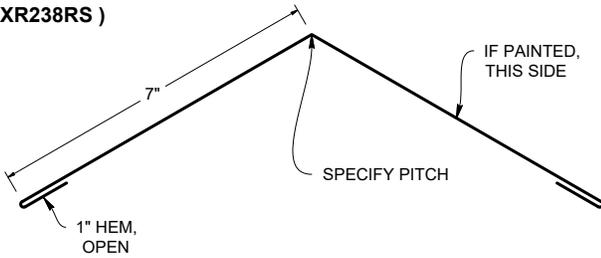
**Note:** All screws must be fastened into solid substrate.  
Flashing must be lapped 4" with 3 rows of gunnable sealant.



**Note:** All screws must be fastened into solid substrate.  
Flashing must be lapped 4" with 3 rows of gunnable sealant.

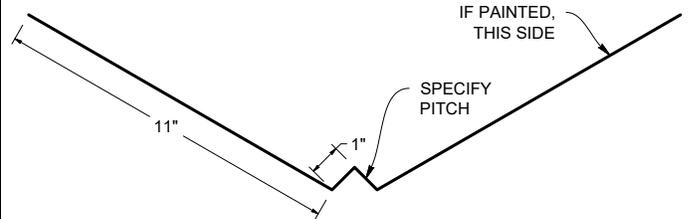
<p><b>EAVE STANDARD</b> ( MXR238ES )</p> <p>IF PAINTED, THIS SIDE</p> <p>3 3/8"</p> <p>SPECIFY PITCH</p> <p>1 1/2"</p> <p>135°</p> <p>5/8" KICK, 1/2" HEM, OPEN</p> <p>SCALE 1:3      S.O. 6"      WEIGHT: 4.9 LBS.</p>	<p><b>EAVE HOOK</b> ( MXR238EH )</p> <p>IF PAINTED, THIS SIDE</p> <p>4 1/4"</p> <p>SPECIFY PITCH</p> <p>1 1/2"</p> <p>135°</p> <p>5/8" KICK, 1/2" HEM, OPEN</p> <p>SCALE 1:3      S.O. 8"      WEIGHT: 6.5 LBS.</p>	<p><b>ALT. EAVE</b> ( MXR238EA )</p> <p>IF PAINTED, THIS SIDE</p> <p>3 3/8"</p> <p>SPECIFY PITCH</p> <p>1 1/2"</p> <p>138°</p> <p>5/8" KICK, 1/2" HEM, OPEN</p> <p>SCALE 1:3      S.O. 9.25"      WEIGHT: 7.3 LBS.</p>
<p><b>BOX GABLE</b> ( MXR238GB )</p> <p>1 3/4"</p> <p>1 3/4"</p> <p>1/2"</p> <p>IF PAINTED, THIS SIDE</p> <p>4 3/8"</p> <p>5/8" KICK, 1/2" HEM, OPEN</p> <p>135°</p> <p>SCALE 1:3      S.O. 9.5"      WEIGHT: 7.7 LBS.</p>	<p><b>GABLE SUPPORT CLEAT</b> ( MXR238GC )</p> <p>1"</p> <p>4 1/4"</p> <p>135°</p> <p>1/2"</p> <p>NON-VISIBLE / SUB-FLASHINGS ARE NOT PROVIDED IN SPECIFIC COLORS UNLESS SPECIFIED</p> <p>SCALE 1:3      S.O. 5.75"      WEIGHT: 4.7 LBS.</p>	<p><b>BOX GUTTER</b> ( MXR23865BG )</p> <p>3/4"</p> <p>1"</p> <p>1/2" HEM, OPEN</p> <p>IF PAINTED, THIS SIDE</p> <p>3/4"</p> <p>2X 108°</p> <p>5 1/2"</p> <p>6"      4"</p> <p>SCALE 1:4      S.O. 16"      WEIGHT: 13.3 LBS.</p>
<p><b>ALT. GABLE</b> ( MXR238AG )</p> <p>2 1/2"</p> <p>1/2" HEM, OPEN</p> <p>IF PAINTED, THIS SIDE</p> <p>4 3/8"</p> <p>135°</p> <p>5/8" KICK, 1/2" HEM, OPEN</p> <p>SCALE 1:3      S.O. 8.5"      WEIGHT: 6.9 LBS.</p>	<p><b>ALT. GABLE CLEAT</b> ( MXR238AGC )</p> <p>1 3/4"</p> <p>1 3/4"</p> <p>1/2"</p> <p>IF PAINTED, THIS SIDE</p> <p>4 1/4"</p> <p>135°</p> <p>1/2"</p> <p>*FOR USE WITH ALTERNATE GABLE ONLY</p> <p>SCALE 1:3      S.O. 8.75"      WEIGHT: 7.02 LBS.</p>	<p><b>SUPPORT FLASHING</b> ( MXR238SF )</p> <p>1 1/2"</p> <p>2 3/4"</p> <p>138°</p> <p>1/2"</p> <p>3"</p> <p>NON-VISIBLE / SUB-FLASHINGS ARE NOT PROVIDED IN SPECIFIC COLORS UNLESS SPECIFIED</p> <p>SCALE 1:3      S.O. 8.5"      WEIGHT: 6.7 LBS.</p>

**STANDARD RIDGE  
( MXR238RS )**



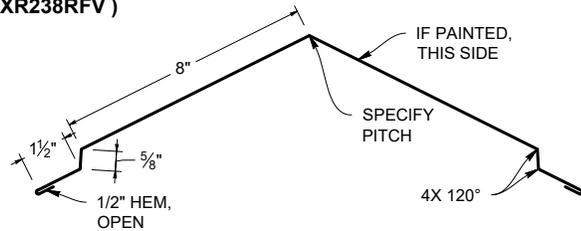
SCALE 1:4      S.O. 16"      WEIGHT: 13.1 LBS.

**VALLEY FLASHING  
( MXR238VF )**



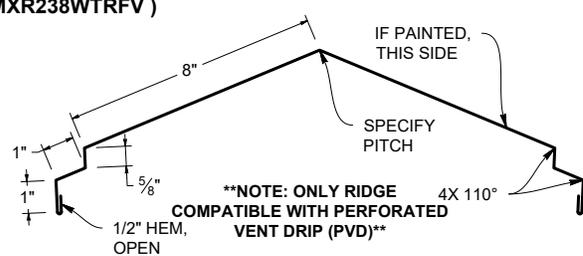
SCALE 1:6      S.O. 24"      WEIGHT: 19.5 LBS.

**RIDGE FULL VENTED  
( MXR238RFV )**



SCALE 1:6      S.O. 21.25"      WEIGHT: 17.3 LBS.

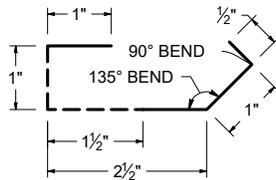
**WT RIDGE FULL VENTED  
( MXR238WTRFV )**



SCALE 1:6      S.O. 22.25"      WEIGHT: 18.1 LBS.

**PERFORATED VENT DRIP: E2886 EMBER RESISTANT  
( MXR238PVD )**

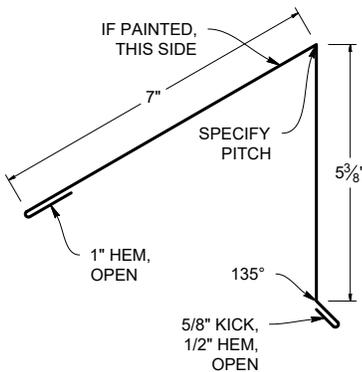
NON-VISIBLE / SUB-FLASHINGS ARE NOT PROVIDED IN SPECIFIC COLORS UNLESS SPECIFIED



**\*\*NOTE: COMPATIBLE WITH ALL WT FLASHINGS\*\***

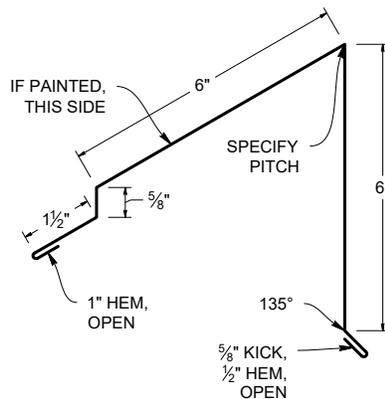
SCALE 1:3      S.O. 6"      WEIGHT: 4.9 LBS.

**PEAK FLASHING (R.E.C.)  
( MXR238REC )**



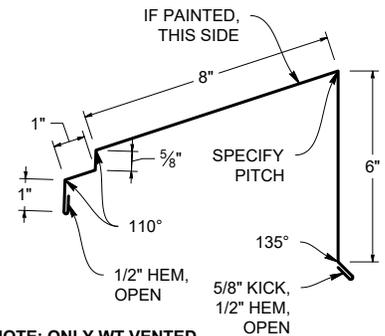
SCALE 1:4      S.O. 14.5"      WEIGHT: 11.8 LBS.

**VENTED PEAK FLASHING  
( MXR238RECV )**



SCALE 1:4      S.O. 16.25"      WEIGHT: 13.2 LBS.

**WT VENTED PEAK FLASHING  
( MXR238WTRECV )**

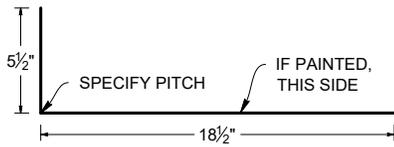


**\*\*NOTE: ONLY WT VENTED RIDGE END CAP COMPATIBLE WITH PERFORATED VENT DRIP (PVD)\*\***

SCALE 1:6      S.O. 18.25"      WEIGHT: 14.9 LBS.

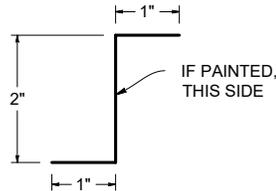
<p><b>PEAK CLEAT</b> ( MXR238RECC )</p> <p>SCALE 1:3      S.O. 6.75"      WEIGHT: 5.5 LBS.</p>	<p><b>VENTED PEAK CLEAT</b> ( MXR238VRECC )</p> <p>SCALE 1:3      S.O. 7.375"      WEIGHT: 6.0 LBS.</p>	<p><b>ENDWALL</b> ( MXR238EW )</p> <p>SCALE 1:5      S.O. 12"      WEIGHT: 9.8 LBS.</p>
<p><b>VENTED ENDWALL</b> ( MXR238EWV )</p> <p>SCALE 1:5      S.O. 12"      WEIGHT: 9.8 LBS.</p>	<p><b>WT VENTED ENDWALL</b> ( MXR238WTEWV )</p> <p>SCALE 1:5      S.O. 15.5"      WEIGHT: 12.6 LBS.</p>	<p><b>SIDEWALL</b> ( MXR238SW )</p> <p>SCALE 1:3      S.O. 8"      WEIGHT: 6.5 LBS.</p>
<p><b>CURB SIDEWALL</b> ( MXR238CSW )</p> <p>SCALE 1:4      S.O. 10.25"      WEIGHT: 8.3 LBS.</p>	<p><b>CURB ENDWALL</b> ( MXR238CH )</p> <p>SCALE 1:4      S.O. 12"      WEIGHT: 9.8 LBS.</p>	<p><b>OFFSET CLEAT</b> ( MXR238OC )</p> <p>SCALE 1:2      S.O. 3"      WEIGHT: 2.4 LBS.</p>

**BACK PAN**  
( MS200PAN )



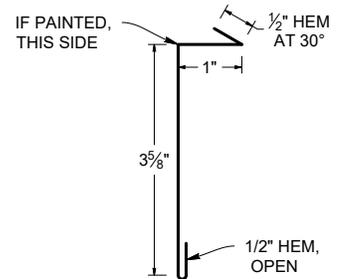
SCALE 1:10      S.O. 24"      WEIGHT: 19.5 LBS.

**ZEE CLOSURE**  
( MXR238ZC )



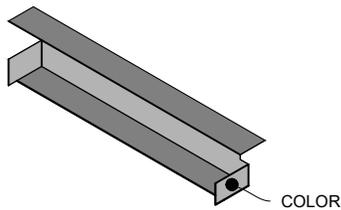
SCALE 1:3      S.O. 4"      WEIGHT: 3.1 LBS.

**REGLET**  
( MXR238RF )



SCALE 1:3      S.O. 5.625"      WEIGHT: 4.6 LBS.

**END DAM**

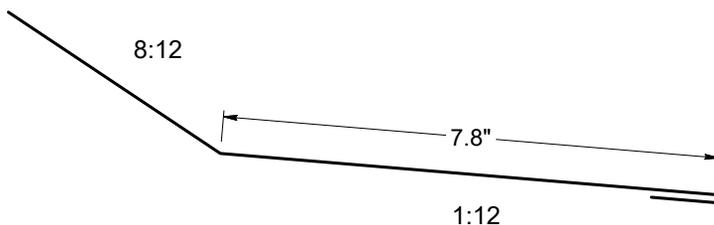


SCALE 1:10      S.O. VARIES      WEIGHT: VARIES

# Pitch Change Variables



		Lower Leg Pitch												
Upper Leg Pitch	Inside Pitch Change	Flat	1:12	2:12	3:12	4:12	5:12	6:12	7:12	8:12	9:12	10:12	11:12	
	1:12	18.1"	-	-	-	-	-	-	-	-	-	-	-	-
	2:12	12"	18.2"	-	-	-	-	-	-	-	-	-	-	
	3:12	10"	12.1"	18.5"	-	-	-	-	-	-	-	-	-	
	4:12	9"	10.1"	12.3"	19"	-	-	-	-	-	-	-	-	
	5:12	8.4"	9.1"	10.3"	12.6"	19.7"	-	-	-	-	-	-	-	
	6:12	8"	8.5"	9.25"	10.5"	13"	20.5"	-	-	-	-	-	-	
	7:12	7.7"	8.1"	8.6"	9.4"	10.8"	13.4"	21.5"	-	-	-	-	-	
	8:12	7.5"	7.8"	8.4"	8.5"	9.7"	11.1"	14"	22.7"	-	-	-	-	
	9:12	7.3"	7.6"	7.9"	8.4"	9"	9.9"	11.5"	14.6"	24"	-	-	-	
	10:12	7.2"	7.4"	7.7"	8.1"	8.6"	9.2"	10.25"	11.4"	15.3"	25.6"	-	-	
	11:12	7.1"	7.3"	7.5"	7.8"	8.2"	8.7"	9.5"	10.6"	12.4"	16.1"	27.2"	-	
	12:12	7"	7.2"	7.4"	7.7"	8"	8"	9"	9.8"	11"	13"	17"	29.1"	



EXAMPLE: If the Upper Leg Pitch is 8:12 and the Lower Leg Pitch is 1:12, as labeled on the left, then the lower leg will end up being 7.8" long.



# Custom Trim Order

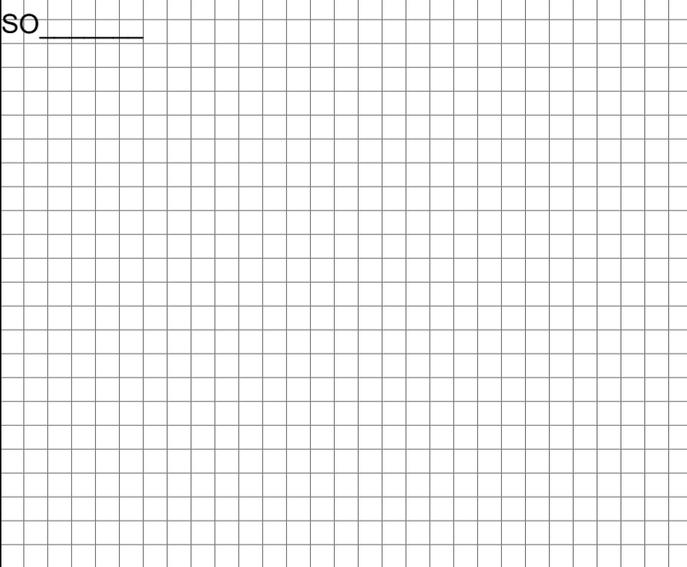


Customer Name: \_\_\_\_\_ Job Name: \_\_\_\_\_

Gauge: \_\_\_\_\_ Color: \_\_\_\_\_ Status:  Original  Updated

Specify:  Angles  Color Side  Dimensions  Stretchout \_\_\_\_\_ Customer Initials

SO \_\_\_\_\_

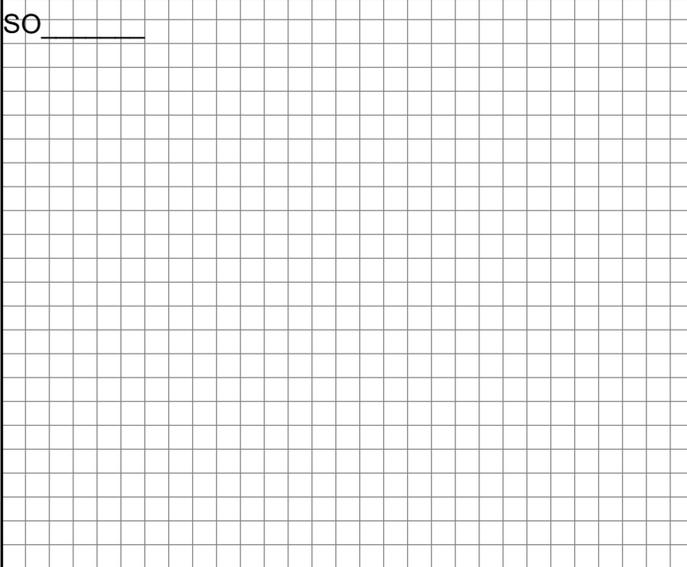


Dwg #: \_\_\_\_\_ Pitch: \_\_\_\_\_ # of Pieces: \_\_\_\_\_

Description: \_\_\_\_\_

Hems:  Open  Closed  Slightly Open

SO \_\_\_\_\_

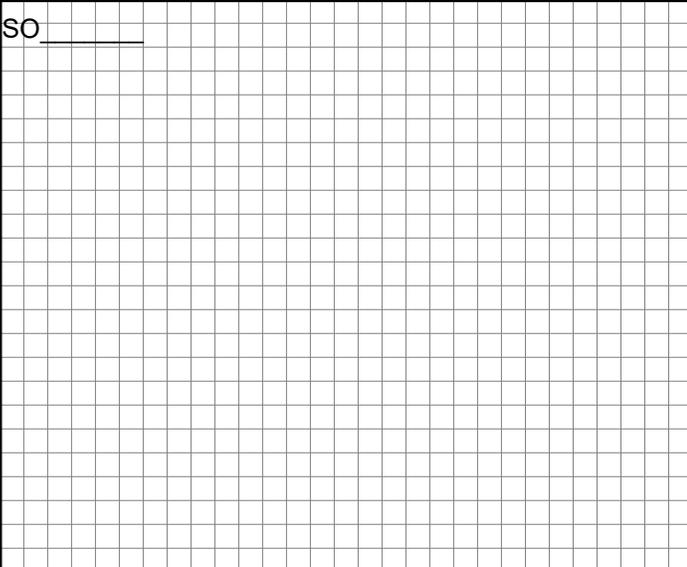


Dwg #: \_\_\_\_\_ Pitch: \_\_\_\_\_ # of Pieces: \_\_\_\_\_

Description: \_\_\_\_\_

Hems:  Open  Closed  Slightly Open

SO \_\_\_\_\_

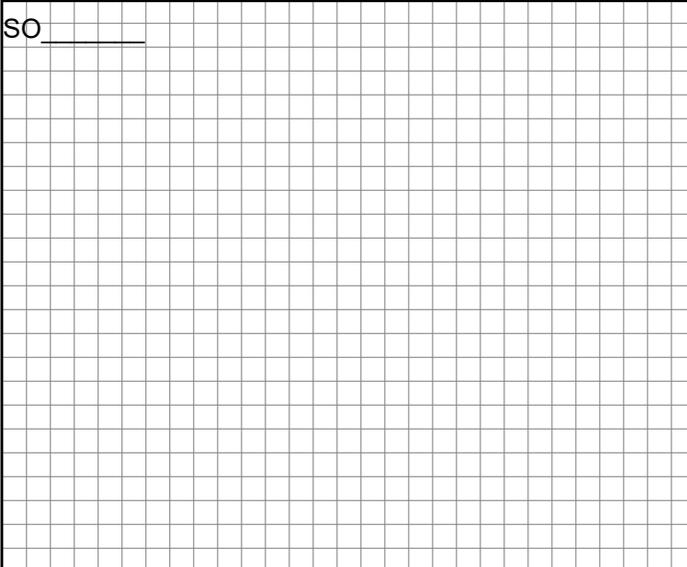


Dwg #: \_\_\_\_\_ Pitch: \_\_\_\_\_ # of Pieces: \_\_\_\_\_

Description: \_\_\_\_\_

Hems:  Open  Closed  Slightly Open

SO \_\_\_\_\_



Dwg #: \_\_\_\_\_ Pitch: \_\_\_\_\_ # of Pieces: \_\_\_\_\_

Description: \_\_\_\_\_

Hems:  Open  Closed  Slightly Open

50 Please provide a drawing for each flashing with precise measurements and angles

Fax to: 503-581-6877



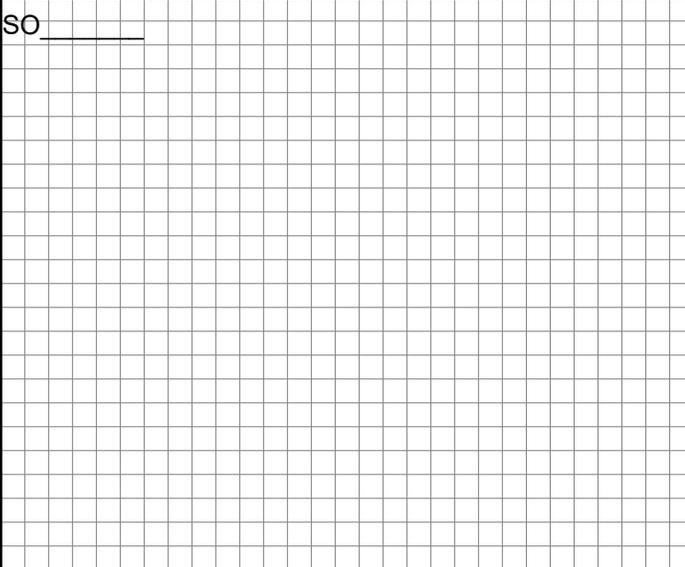
# Custom Trim Order

Customer Name: \_\_\_\_\_ Job Name: \_\_\_\_\_

Gauge: \_\_\_\_\_ Color: \_\_\_\_\_ Status:  Original  Updated

Specify:  Angles  Color Side  Dimensions  Stretchout \_\_\_\_\_ Customer Initials

SO \_\_\_\_\_

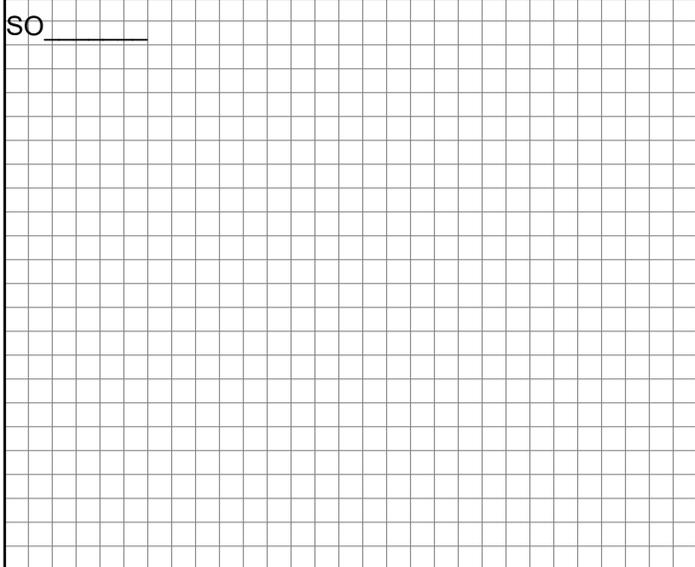


Dwg #: \_\_\_\_\_ Pitch: \_\_\_\_\_ # of Pieces: \_\_\_\_\_

Description: \_\_\_\_\_

Hems:  Open  Closed  Slightly Open

SO \_\_\_\_\_

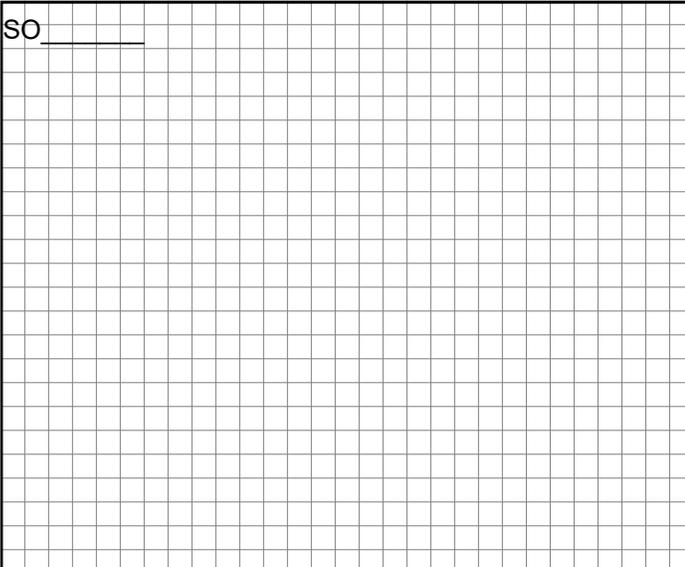


Dwg #: \_\_\_\_\_ Pitch: \_\_\_\_\_ # of Pieces: \_\_\_\_\_

Description: \_\_\_\_\_

Hems:  Open  Closed  Slightly Open

SO \_\_\_\_\_

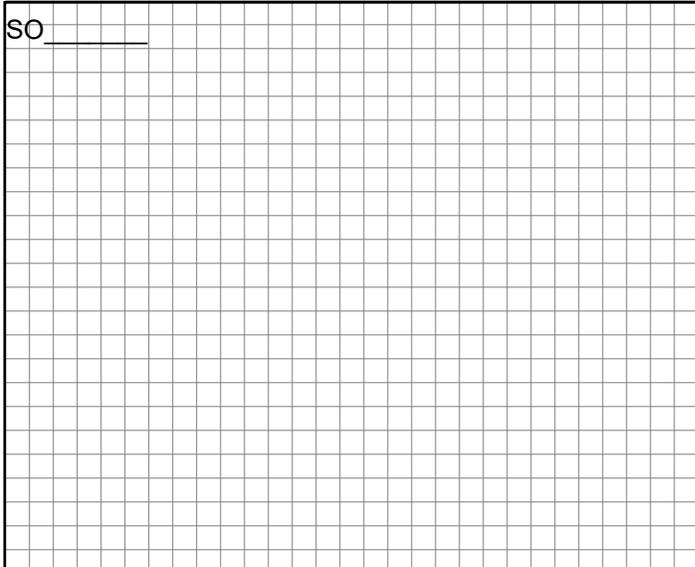


Dwg #: \_\_\_\_\_ Pitch: \_\_\_\_\_ # of Pieces: \_\_\_\_\_

Description: \_\_\_\_\_

Hems:  Open  Closed  Slightly Open

SO \_\_\_\_\_



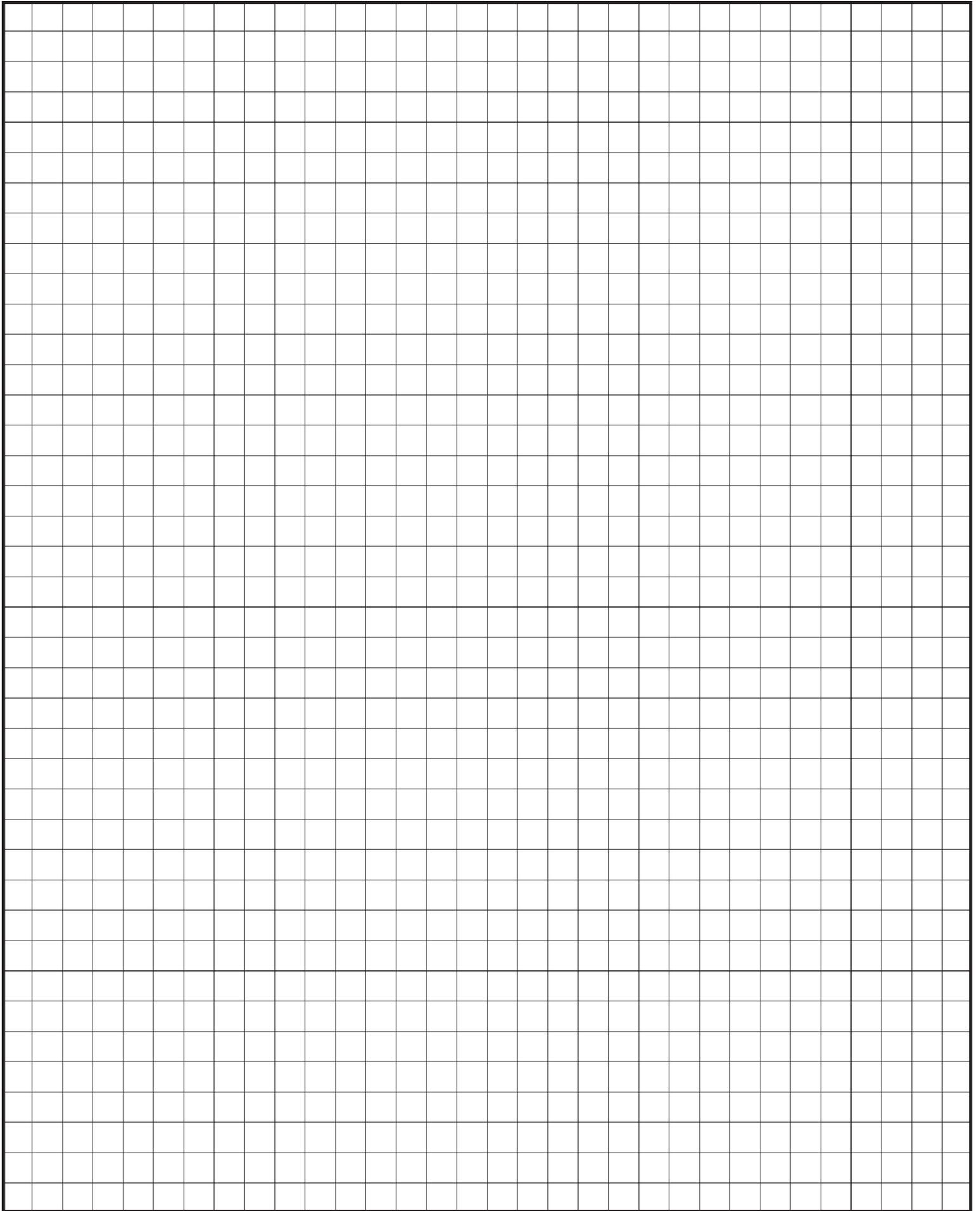
Dwg #: \_\_\_\_\_ Pitch: \_\_\_\_\_ # of Pieces: \_\_\_\_\_

Description: \_\_\_\_\_

Hems:  Open  Closed  Slightly Open

Please provide a drawing for each flashing with precise measurements and angles

Fax to: 503-581-6877







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