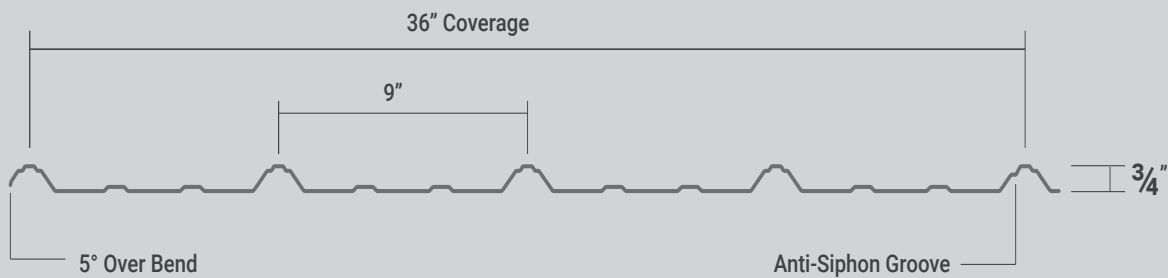


TUFF RIB

PANEL INSTALLATION GUIDE



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INTRODUCTION

Congratulations on the purchase of your customized metal panel system from Bridger Steel. We hope our panel system helps you create lasting beauty. When picking up or receiving your metal package check the parts you received against the invoice. If there are any discrepancies notify Bridger Steel Personnel right away.

HANDLING INSTRUCTIONS

Handle your panels and trim with care to avoid damage. Longer panels may need more than one pickup point when lifting on or off a trailer. Trim bundles can be heavy and awkward. Don't lift more than you can safely handle. Break open the bundle if needed.

STORING YOUR PANELS

Bridger Steel recommends you should have your structure built before ordering metal. With actual building measurements, your materials can then be ordered. The longer the metal package is stored at your work site, the more opportunity for damage to occur.

If for some reason you cannot install the metal right away, proper storage is a must. Store metal panels and other materials in a covered, dry, well ventilated area ensuring moisture and direct sunlight are kept away from panels. If stored outside, wrap a tarp loosely around the panel bundles so air can circulate freely to avoid moisture build-up. One end of the bundle should be elevated so any accumulated moisture can run off. Never store materials in direct contact with the ground. The trim package you receive has a protective plastic film on it. The film should be removed within 90 days or immediately after installation.

SAFETY RECOMMENDATIONS

Safety is always your first consideration when installing your metal package. Hazards exist on the ground as well as on the roof.

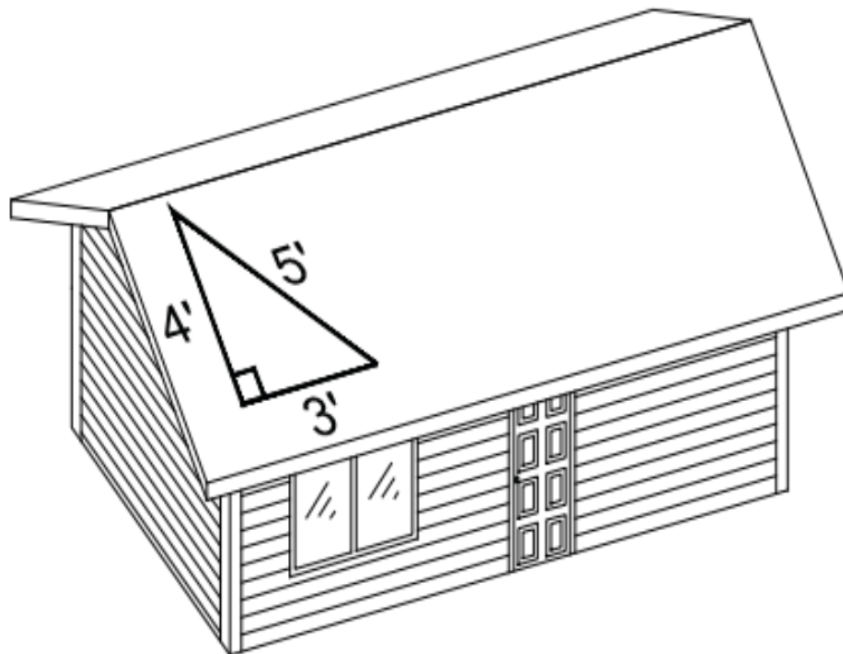
- Always be aware of where you are on the roof. Openings, edges, electrical lines and tripping hazards (cords and equipment) are a constant danger.
- Watch electrical lines when maneuvering panels.
- Never install metal roofing on windy or stormy days. The wind can get under the panel and force you off the roof. If panel becomes loose or airborne it can become a sharp projectile.
- Roofing can be very slick when dusty, wet, or covered with frost. Avoid being on the roof when these conditions are present.
- Never step on panels until they are in place and secured with fasteners.
- Wearing soft soled shoes will help with traction while preventing scratching the panels.
- Use fall protection where needed.
- Be aware of your coworker. Make sure they are not putting themselves in danger.
- If your building has an open purlin system make sure to walk on the purlin not in between the purlin this may result in injury.

PREPARING NEW CONSTRUCTION

Bridger Steel quality light gauge material can be used for new or existing structures.

1. If you need openings cut for venting through the ridge or plumbing vents or electrical conduits, now is the time to add them before panel installation.
2. It is very important to check for protruding nails and other objects which may puncture the underlayment and roofing panels. Be sure to clean all foreign materials from the roof.
3. Cover the deck with a moisture barrier such as a manufacturer approved synthetic underlayment or as code requires. Begin at the eave and roll the underlayment horizontally (along the eave). Overlap the next strip at least 3 inches. (Place a non-granulated hi-temp ice & water membrane underlayment in areas which snow, ice, and rain can accumulate, such as valleys and eaves. This will be applied to the roof before rolling the underlayment out).
4. Place an alignment line along the gable end where the first panel will be installed. This line must be parallel to the gable edge of the roof and square with the eave edge. Check the roof for squareness by making a 3 foot line across the eave. (See Figure A) Completing the 3' x 4' x 5' triangle should place the 4' line parallel along the gable edge. The first panel will be placed along this line. Any out of square conditions up to 3" can be covered by the gable trim.

It is important to measure the roof from gable to gable. Proper placement of panels will allow the panel ribs on each side to be covered by the gable trim while creating a symmetrical appearance on the roof.



PREPARING PRE-EXISTING ROOF

It's best if existing roofing such as shingles, cedar shakes be removed so there is a smooth flat substrate for installing metal roofing panels. Metal roofing should never be installed over an uneven surface.

Another good reason for stripping a roof is to look for any defects which need repair or replacement. **Never apply metal roofing over a damaged substrate.** (If you are going to strip the roof go back to new roof installation, see Page 4). If you do decide to apply over existing roofing, inspect the roof for defects and repair so the new roofing has a flat surface to be applied to.

1. Secure or remove any warped roofing.
2. Make sure there are no protruding nails or other objects which may affect the new underlayment or roofing panels.
3. Remove all moss and other debris.
4. Remove all hip cap, ridge cap, and penetration flashing.
5. Cover the deck with a moisture barrier such as a manufacturer approved synthetic underlayment. Begin at the eave and roll the underlayment horizontally (along the eave). Overlap the next strip at least 3 inches. (Place a non-granulated hi-temp ice & water membrane underlayment in areas which snow, ice, and rain can accumulate, such as valleys and eaves. This will be applied to the roof before rolling the underlayment out).
6. Place an alignment line along the gable end where the first panel will be installed. This line must be parallel to the gable edge of the roof and square with the eave edge. Check the roof for squareness by making a 3 foot line across the eave. (See Figure A, Page 3) Completing the 3' x 4' x 5' triangle should place the 4' line parallel along the gable edge. The first panel will be placed along this line. Any out of square conditions up to 3" can be covered by the gable trim.

It is important to measure the roof from gable to gable. Proper placement of panels will allow the panel ribs on each side to be covered by the gable trim while creating a symmetrical appearance on the roof.

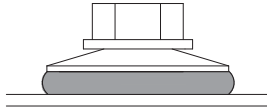
PREVENTING JOBSITE DAMAGE TO PANELS

To prevent damage to panels and trim, install immediately or store in a cool dry area. Carbonized Steel, Galvanized Steel, Aluminized Steel, Galvalume and all alloys of Aluminum are susceptible to what is commonly referred to as "White" or "Black" rust and water stain. These types of staining are caused by electrolysis, which occurs when moisture exists between stacked sheets.

Painted metal products are also susceptible to a change of or loss of paint gloss discoloration, delaminating, disintegrating, and other accelerated defects of the paint as a result of moisture between the panels sheets.

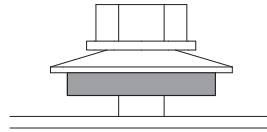
Bridger Steel assumes no responsibility of liability for damage to our product which occurs in the possession of the consignee or which we deem to be improper handling and storage. If panels are to be cut or drilled be certain to wipe free any metal filings that may accumulate. Protective plastic film on the trim should be removed within 90 days or immediately after installation. Failure to follow these instructions may void the warranty.

PROPER FASTENER INSTALLATION



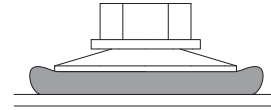
CORRECT

EPDM Material is compressed and visible at the washer.



TOO LOOSE

EPDM not at visible joint. Not enough compression.



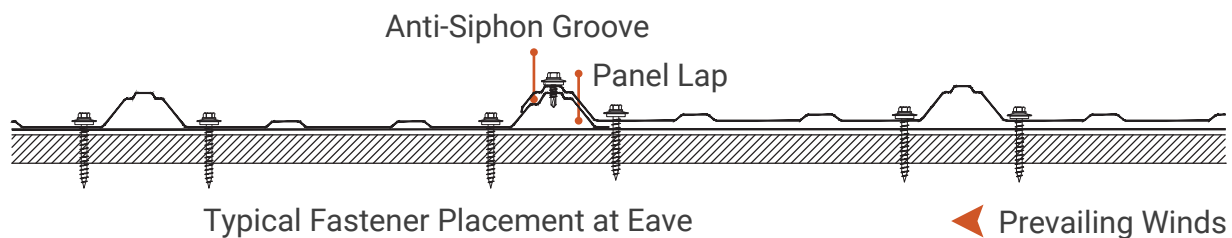
TOO TIGHT

EPDM is over-driven. Material is protruding beyond the fastener.

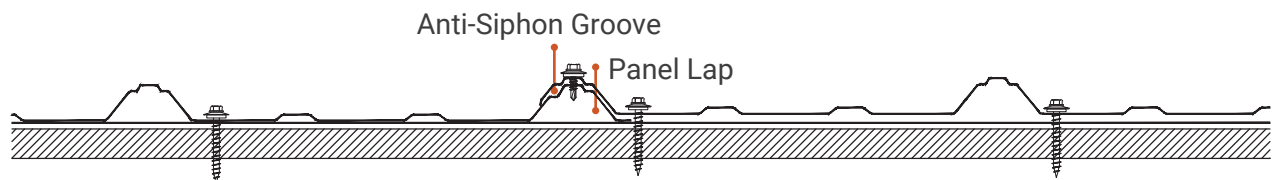
INSTALLING EXPOSED FASTENERS

Screw fasteners have been proven to have 2 to 3 times the holding power of nails. For maximum holding power, it is recommended that the minimum wood penetration be 1 inch. Utilizing screw fasteners with EPDM and metal washers have an excellent quality and are specifically designed for fastening the metal roofing panels. For 1/2" OSB and plywood 1/2" or thicker, use #14 x 1" wood screws.

EAVE OR ENDLAP FASTENER PLACEMENT - FIRST PANEL OVERLAP



TUFF RIB FASTENER PLACEMENT

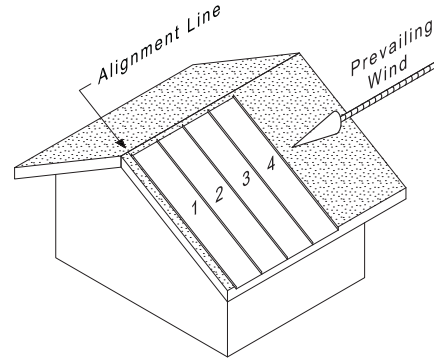


PANEL INSTALLATION

Before beginning installation of panel systems, review Trim Installation Instructions for your panel system. Pay close attention to Valleys, Eaves, and Transitions.

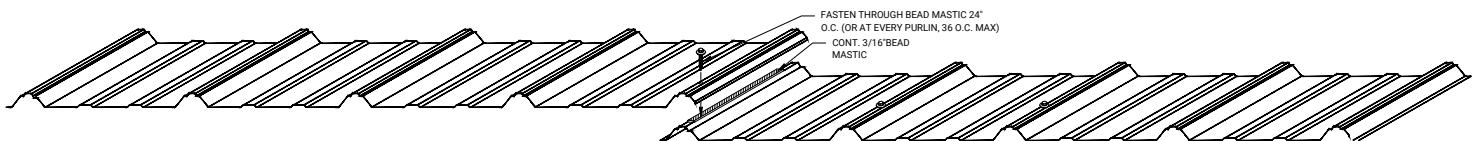
When installing Panel System follow these Guidelines:

1. Install eave trim, valley trim prior to panel installation.
2. Always install your panels into the prevailing wind.
3. Align the edge of the first panel with the alignment line constructed along the gable end. Allow the panel to overhang the eave 1 to 2". (If venting through the ridge make sure you hold the underlayment down 2" from the ridge. Also make sure your decking is 2" down from the top of the ridge on both sides. Doing this will allow for air circulation in the attic space.)
4. After the first panel is properly aligned, fasten your first panel based on Eave or Endlap fastener requirements (see below). Lay down second and third panels, check the alignment, and be sure they are square. You may have to stretch or shrink the panel by either pulling the top or bottom of the panel to make up the distance needed to be square. If you have over a ¼" to make up it is best to stretch or shrink the panel over the next few panels.
5. After the panels are installed, you can install the rest of your trim and flashing. Start at the eave edges and work your way up. For example, place your gable trim starting at the bottom edge and work towards ridge. If pieces must be overlapped; a 2" minimum is recommended. Once the gable trim is installed, you may then install the ridge cap. Please see trim details on how each piece of trim is installed.



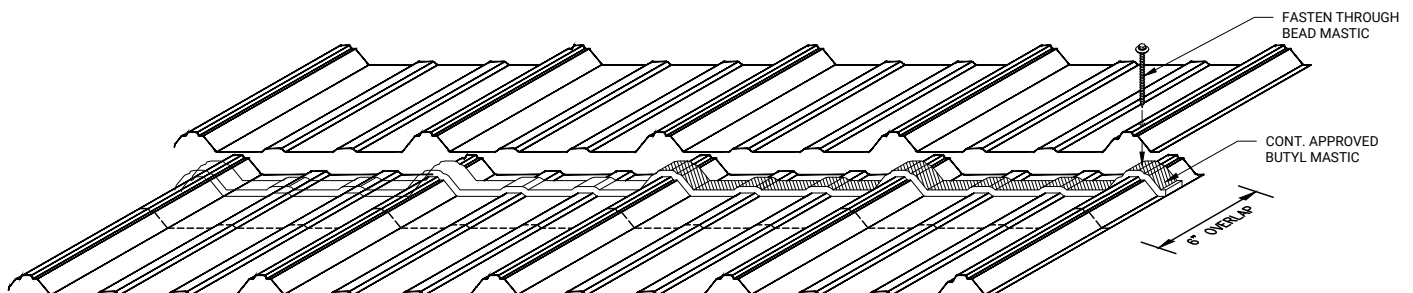
TUFF RIB PANEL SIDELAP

Bead Mastic is recommended on overlaps on 3/12 pitch roofs and under.



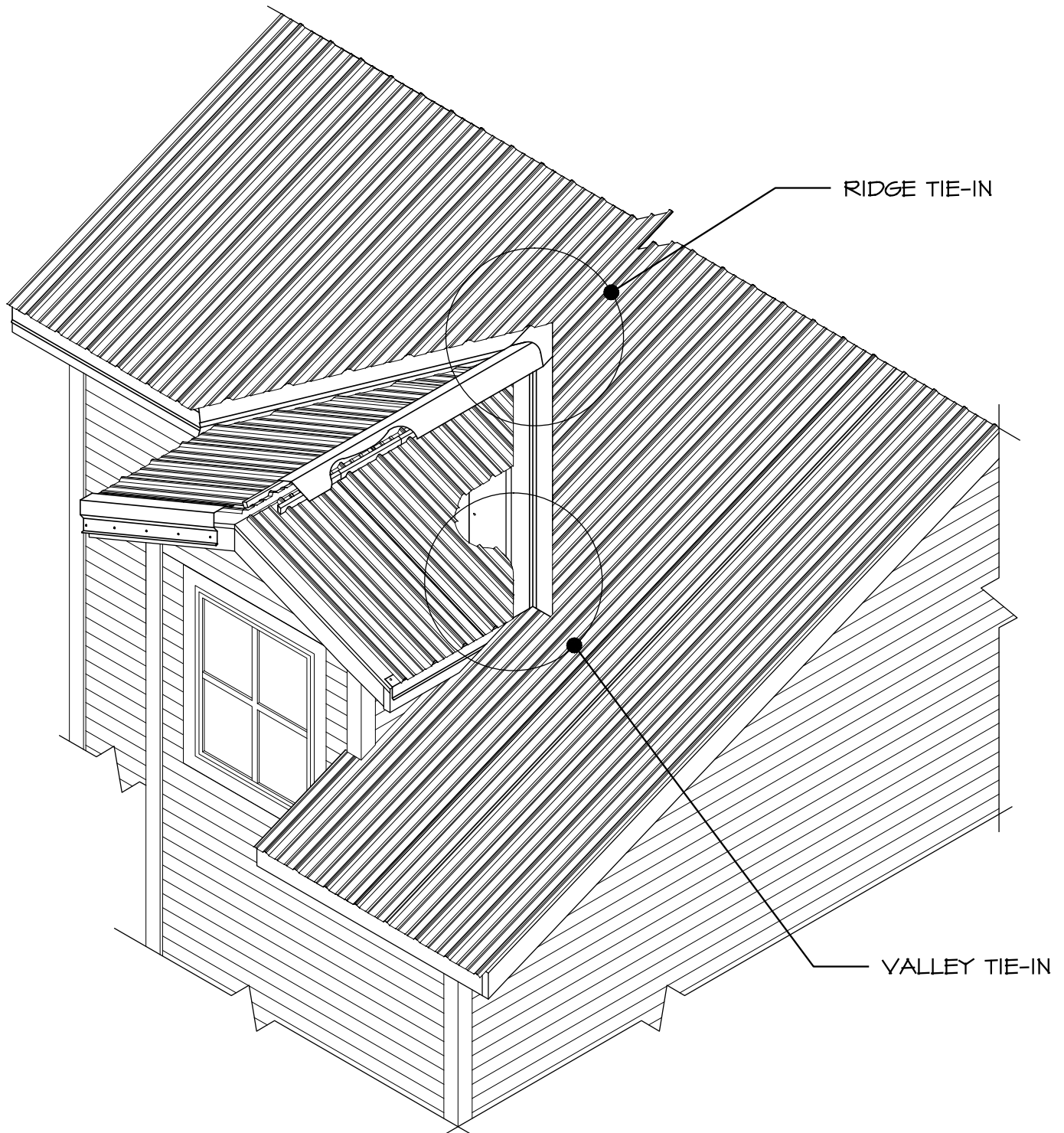
TUFF RIB ENDLAP

A minimum of one row of bead mastic is required for endlapping panels.

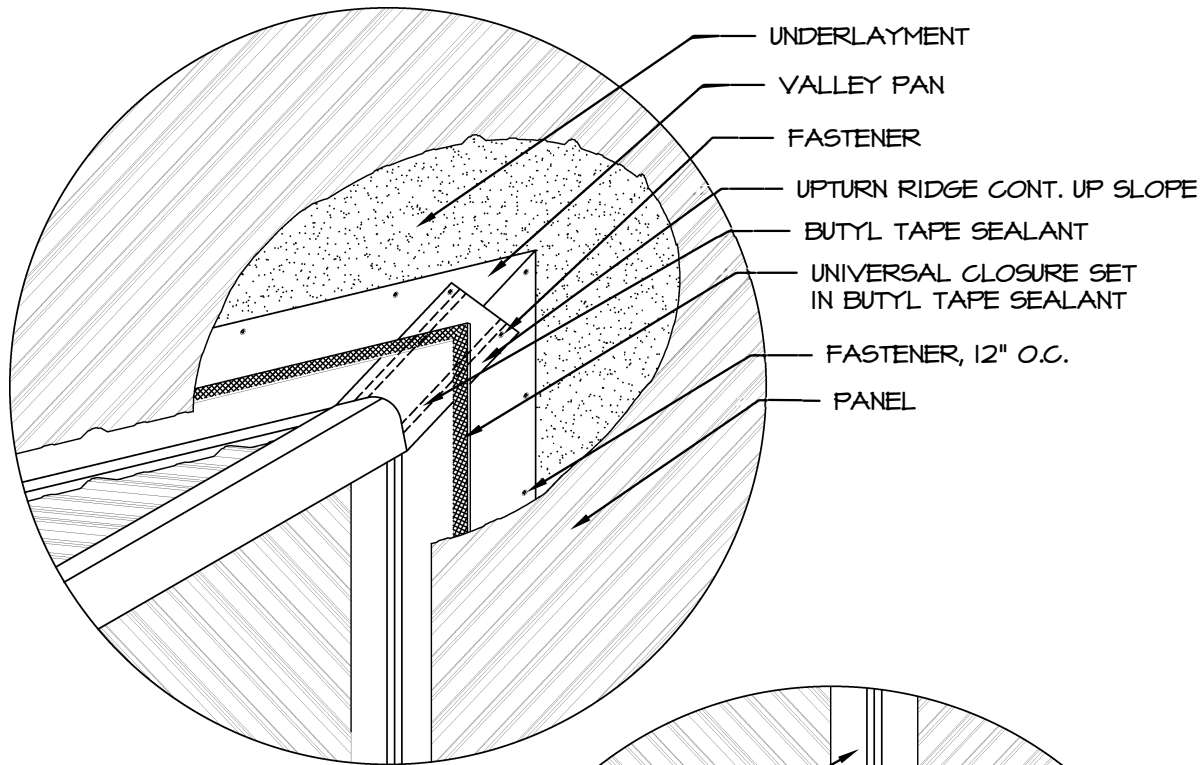


DORMER TIE-IN

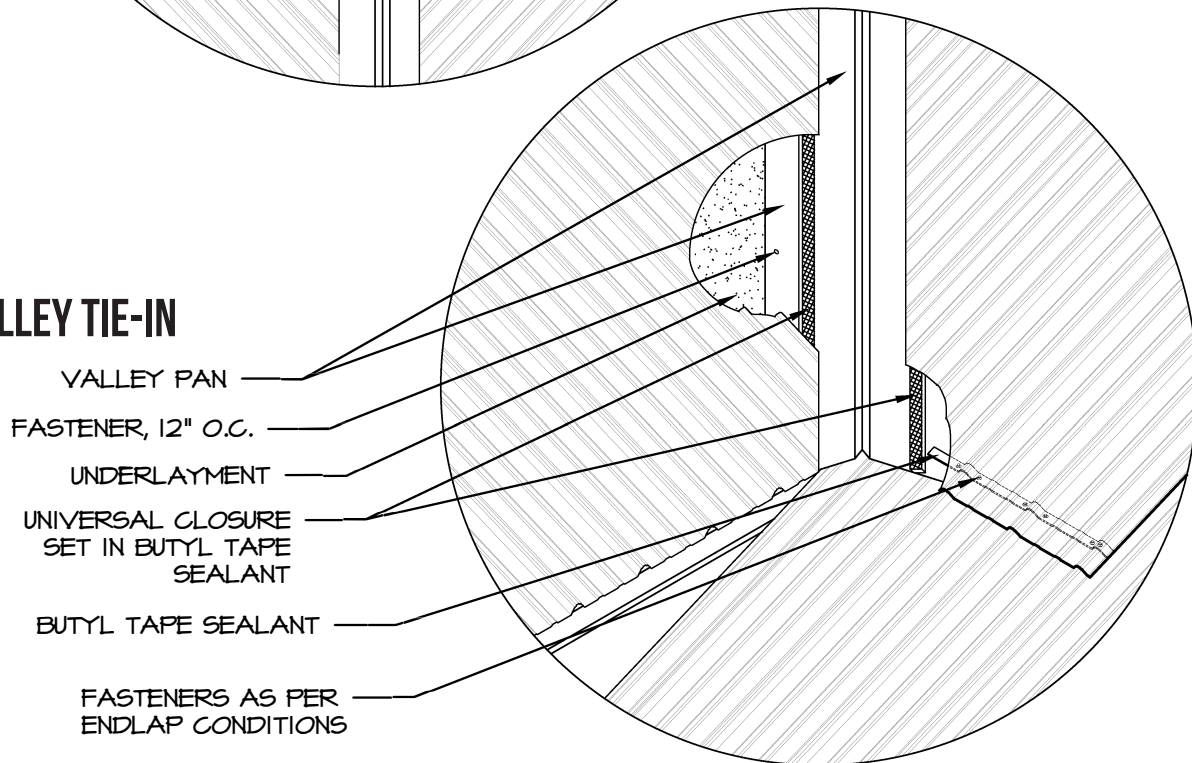
Many roofs have dormers extending out of the main roof. This requires additional ridge and valley trim and needs to be tied in properly to minimize any chance for water to penetrate the roof system. The image below shows the tie-in areas of concern. Install details are shown on the next page for these two areas.



RIDGE TIE-IN



VALLEY TIE-IN



ROOF MAINTENANCE

All roofs, metal or shingle, require periodic maintenance. An expert should perform any complex repair or addition; however, there are certain items that an owner can perform in order to maintain his or her roof in excellent condition.

PERSONAL SAFETY

Safety is the top priority, climbing ladders and walking on any roof can be dangerous. Always use some method of fall protection that is approved by OSHA. Failure to provide the required safety equipment can result in serious injury or death. During the roof inspection, remember to take the following precautions:

- Use fall protection and all required safety equipment.
- Keep foot traffic to a minimum. Only walk on the roof if absolutely necessary.
- Never walk on eave or rake flashings, gutters, hip, or ridge flashings.
- Never walk on any skylight or fiberglass type panels.
- Always walk near the roof panel supports.
- Don't wear black soled shoes; the marks they leave are almost impossible to remove.
- Soft soled shoes are recommended.

ANNUAL ROOF MAINTENANCE

The following are a few of the actions to complete (yourself or professionally). Failure to do so could decrease your roof's life dramatically:

- Clean gutters, down spouts, and drain boxes of leaves and debris.
- Inspect & remove tree branches or other items which are touching the roof.
- Clear the valleys and waterways on flat roofs and pooling areas. Leaves and other debris can block the flow of water in valleys or drainage paths. Organic material left on your roof can cause irreversible corrosion to your panels.
- Check for leaks in roof penetration points like heat, air vents, or skylights. Some leaks are caused by the shrinking or hardening of applied silicones as they dry out. Fill suspicious areas using an approved Metal Roofing Sealant.
- Inspect areas around chimneys, heat vents, oil condensers above cooking areas and air conditioners. Exposing your roofing to chemicals can damage the paint and corrode metals.
- Look for loose flashings, roof sheets, fasteners, or punctures from falling objects.
- Inspect your roof paint for scratches. Should this occur, clean the area with mineral spirits, Rinse completely with water and allow to dry.

If **Exposed Fasteners** have been used on your roof, it is imperative that they are inspected annually. The inspection entails several key points:

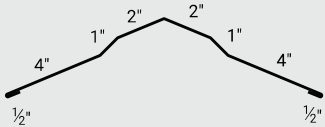
- Are the fasteners installed correctly? Sometimes fasteners are tightened down too much which may cause them to cut or split the neoprene washers.
- Other fasteners may not be tightened properly which will not create a seal between the fastener and the metal panel or flashing.
- EPDM rubber washers are a flexible and durable material that should withstand harsh environments and exposure to ultraviolet rays for many years. However, it is still important to periodically check the washers for any degradation or hardening of the EPDM rubber and replace any fasteners that show evidence of failure. By rubbing your finger nail over the washer you will notice if it is still flexible or has hardened and is breaking apart.

Finally, look at the closures or venting materials under the ridge caps, transitions, end walls and valleys. At times this material can come loose or break down from sun exposure and cause leaks.

Replace As Needed

RIDGE DETAILS

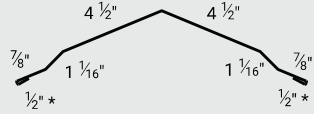
VENTED RIDGE CAP



Material
Girth:
15.0"

X $\frac{12}{}$
Provide Roof Pitch - X

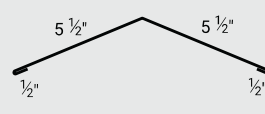
NON-VENTED RIDGE CAP



Material
Girth:
13.875"

X $\frac{12}{}$
Provide Roof Pitch - X

HIP RIDGE

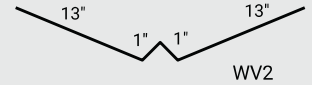


Material
Girth:
12.0"

X $\frac{12}{}$
Provide Roof Pitch - X

VALLEY

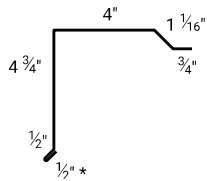
28" W-VALLEY



Material
Girth:
28.0"

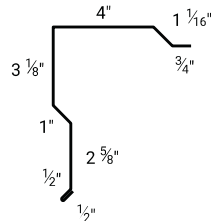
GABLE DETAILS

4" MINI GABLE



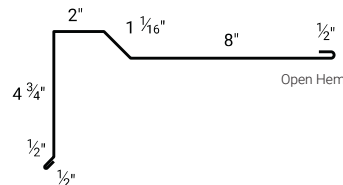
Material
Girth:
11.563"

6" GABLE



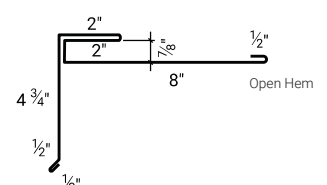
Material
Girth:
13.563"

OPEN PROW GABLE



Material
Girth:
17.313"

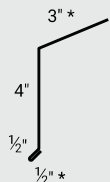
CLOSED PROW GABLE



Material
Girth:
19.125"

EAVE DETAILS

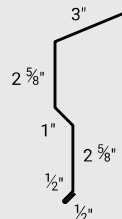
4" EAVE



Material
Girth:
8.0"

X $\frac{12}{}$
Provide Roof Pitch - X

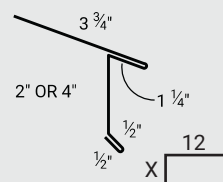
6" EAVE



Material
Girth:
10.25"

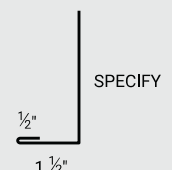
X $\frac{12}{}$
Provide Roof Pitch - X

STYLE D EAVE



2" Face Material Girth: **8.0"**
4" Face Material Girth: **10.0"**
Provide Roof Pitch - X (6:12 Max)

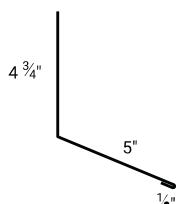
FASCIA



Material
Girth:
Varies

TRANSITIONS

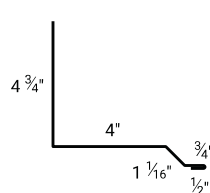
ENDWALL



Material
Girth:
10.25"

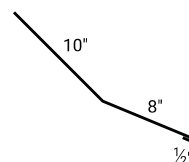
$\frac{12}{}$ X
Provide Roof Pitch - X

SIDEWALL



Material
Girth:
11.063"

TRANSITION HIGH LOW



Material
Girth:
18.5"

$\frac{12}{}$ X
Provide Both Roof Pitches - X

TRANSITION LOW HIGH

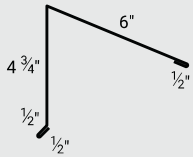


Material
Girth:
18.5"

$\frac{12}{}$ X
Provide Both Roof Pitches - X

TOP CAP

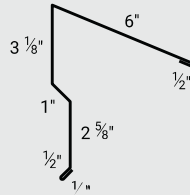
4' MINI TOP CAP



Material
Girth:
12.25"

X $\frac{12}{12}$
Provide Roof Pitch - X

6' TOP CAP

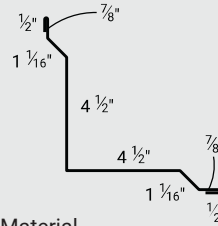


Material
Girth:
14.25"

X $\frac{12}{12}$
Provide Roof Pitch - X

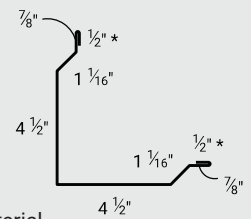
CORNERS

INSIDE CORNER



Material
Girth:
13.875"

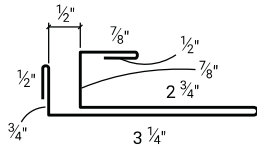
OUTSIDE CORNER



Material
Girth:
13.875"

TRIM PIECES

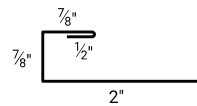
F&J TRIM



Material
Girth:
9.5"

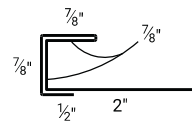
*V-SOFFIT TO 3' TUF RIB

7/8" J TRIM



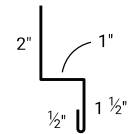
Material
Girth:
4.25"

7/8" DOUBLE J TRIM



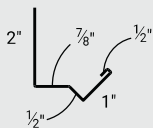
Material
Girth:
6.0"

WAINSCOT



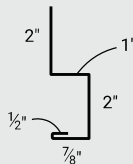
Material
Girth:
5.0"

HEAD TRIM



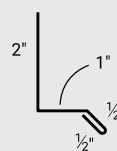
Material
Girth:
4.875"

BROOM BASE



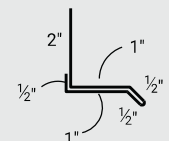
Material
Girth:
6.375"

BASE DRIP



Material
Girth:
4.0"

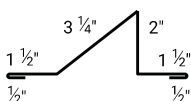
DOUBLE BASE DRIP



Material
Girth:
5.5"

SPECIALTY

SNOW BREAK



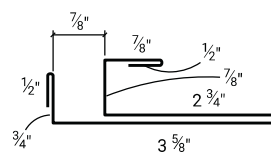
Material
Girth:
9.25"

DOOR CAP



Material
Girth:
Varies

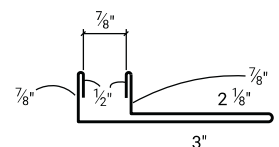
F&J TRIM



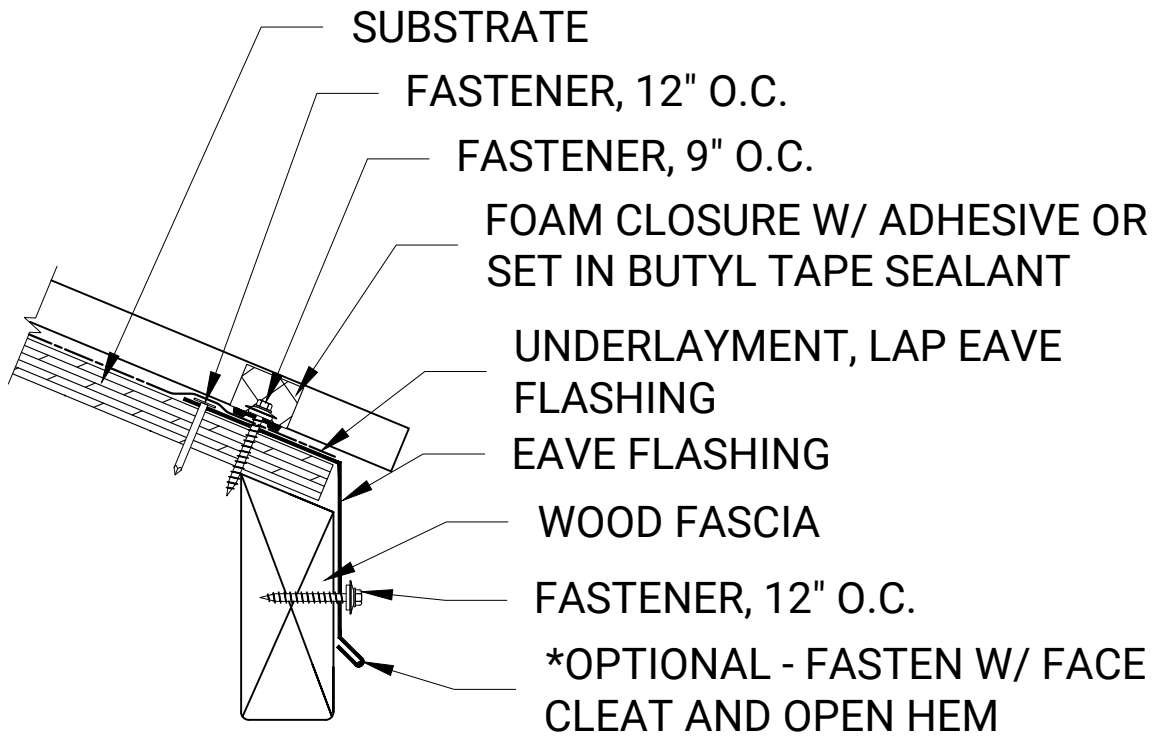
Material
Girth:
9.875"

3' TUF RIB TO 3' TUF RIB

F TRIM



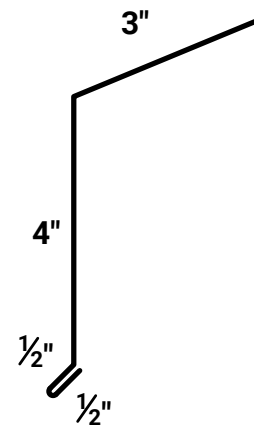
Material
Girth:
7.875"



NOTES:

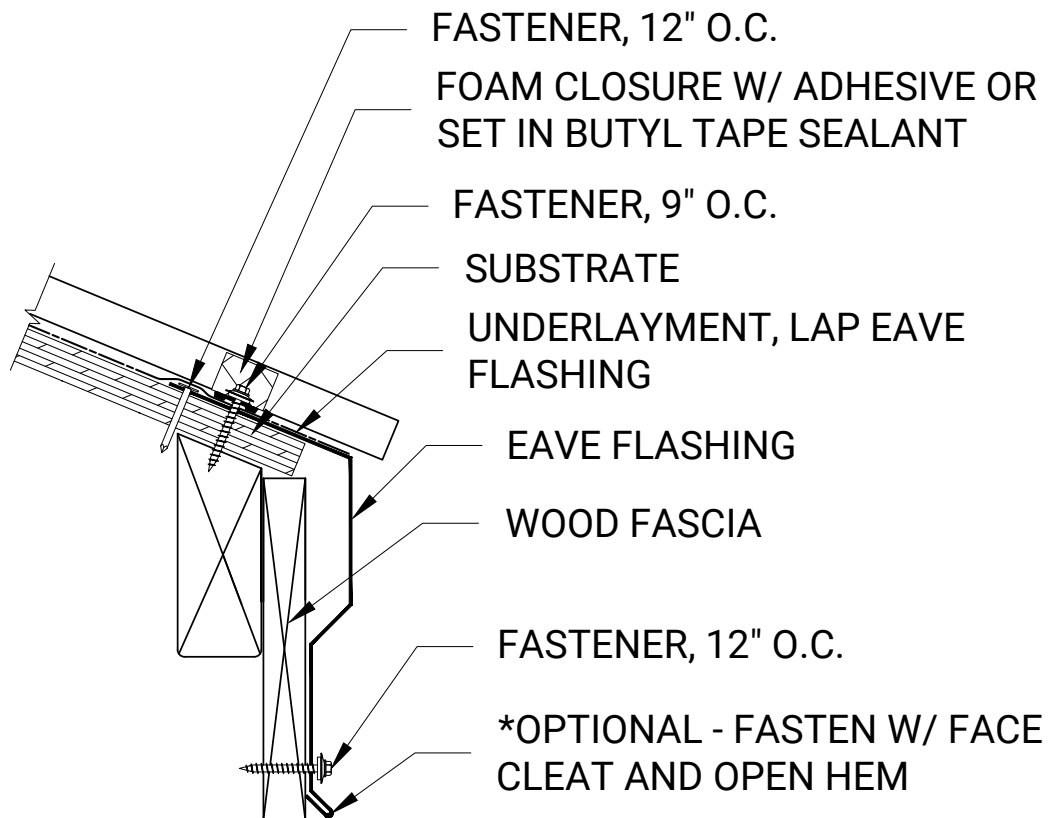
1. Place eave trim on lower edge of roof with nailing flange towards ridge.
2. Fasten down every 12" o.c., then apply underlayment over nailing flange.
3. Next you may start installing panels.

2X4 EAVE



Material
Girth:
8.0"

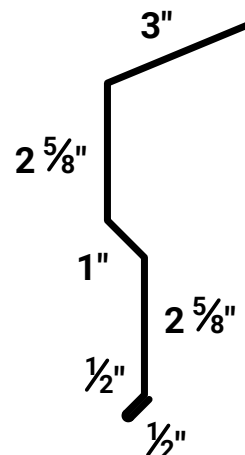
12
X Provide Roof Pitch - X



NOTES:

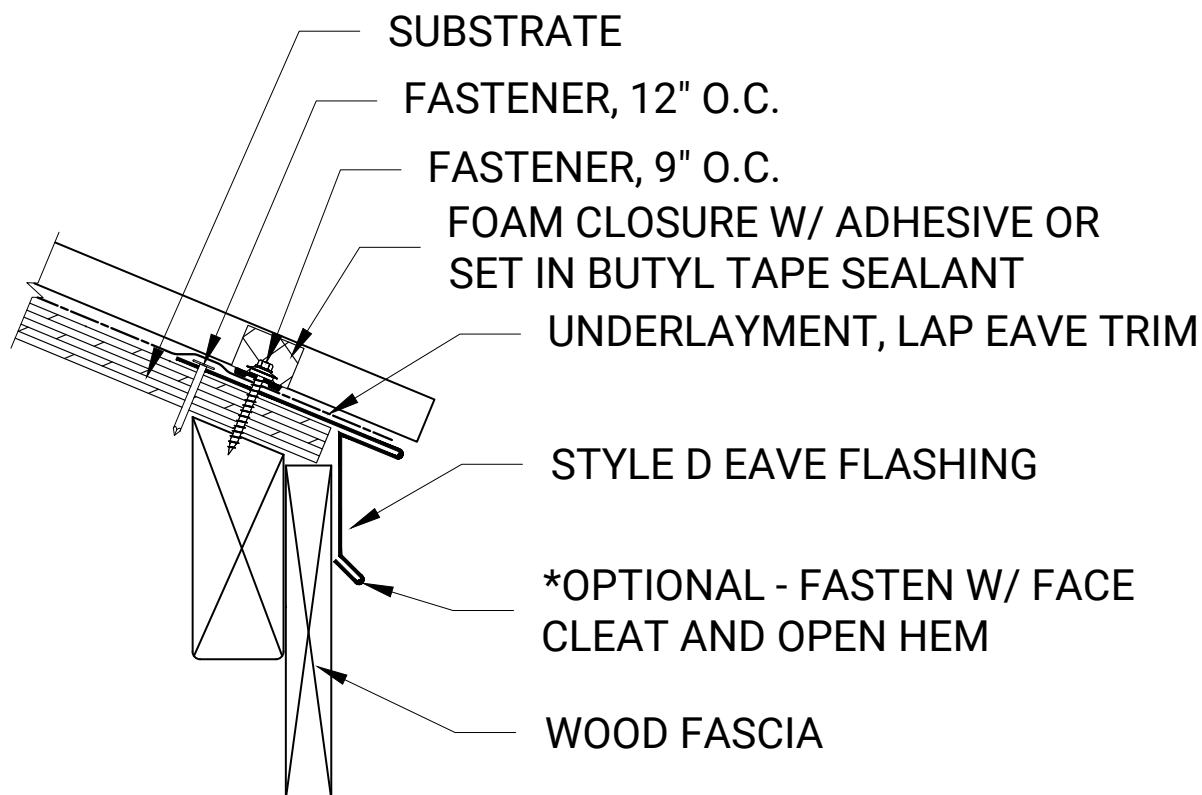
1. Place eave trim on lower edge of roof with nailing flange towards ridge.
2. Fasten down every 12" o.c., then apply underlayment over nailing flange.
3. Next you may start installing panels.

2X6 EAVE



Material
Girth:
10.25"

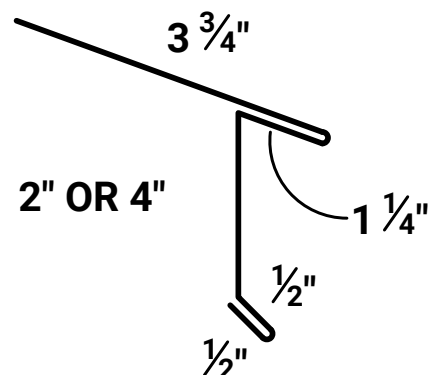
12
X
Provide Roof Pitch - X



NOTES:

1. Place Style D Eave at edge of roof with nailing flange towards the ridge.
2. Fasten down every 12" o.c., then apply underlayment over nailing flange.
3. Next you may start installing panels.

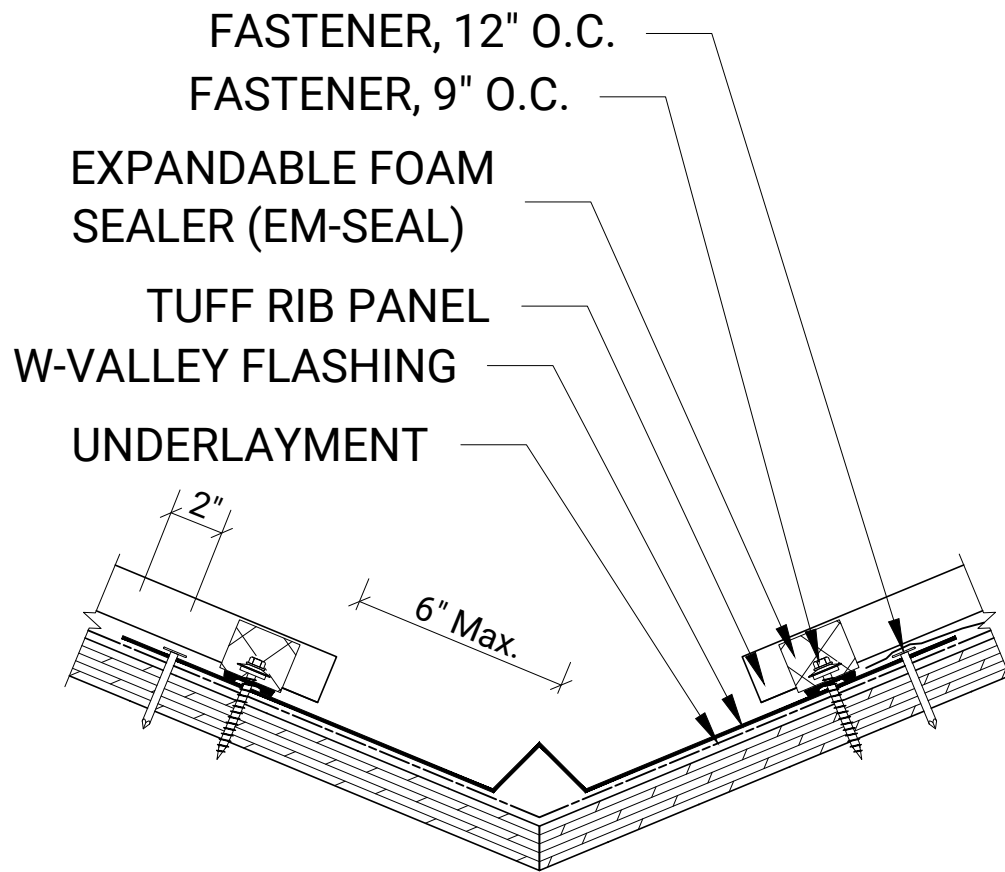
STYLE D EAVE



2" Face Material
Girth:
8.0"

4" Face Material
Girth:
10.0"

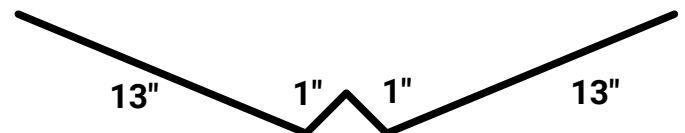
$\frac{12}{X}$
Provide Roof Pitch - X
(6:12 Max)



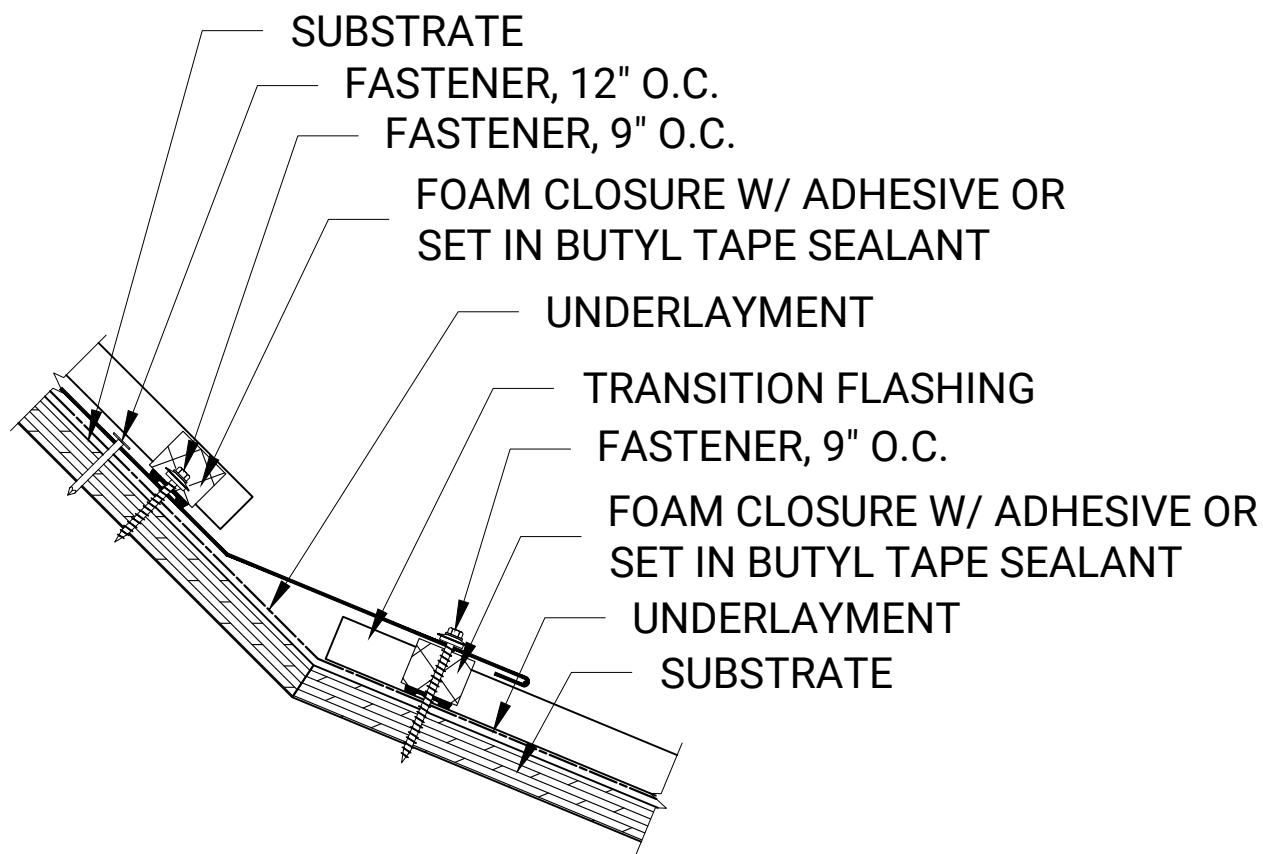
NOTES:

1. Install underlayment in bottom of the valley.
2. Lay valley panel down and fasten 2" from the outside edge every 12" o.c.
3. Apply second layer of underlayment over outer edge of valley, approximately 3" down on both sides of the valley.

W VALLEY



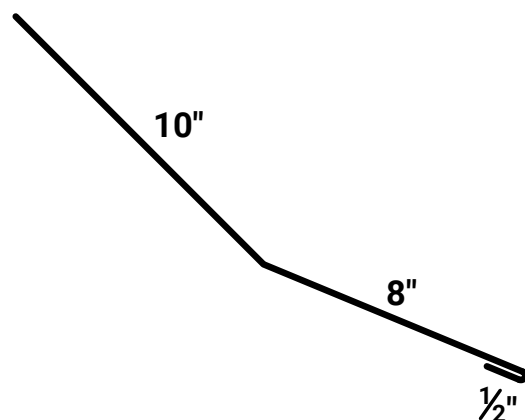
Material
Girth:
28.0"



NOTES:

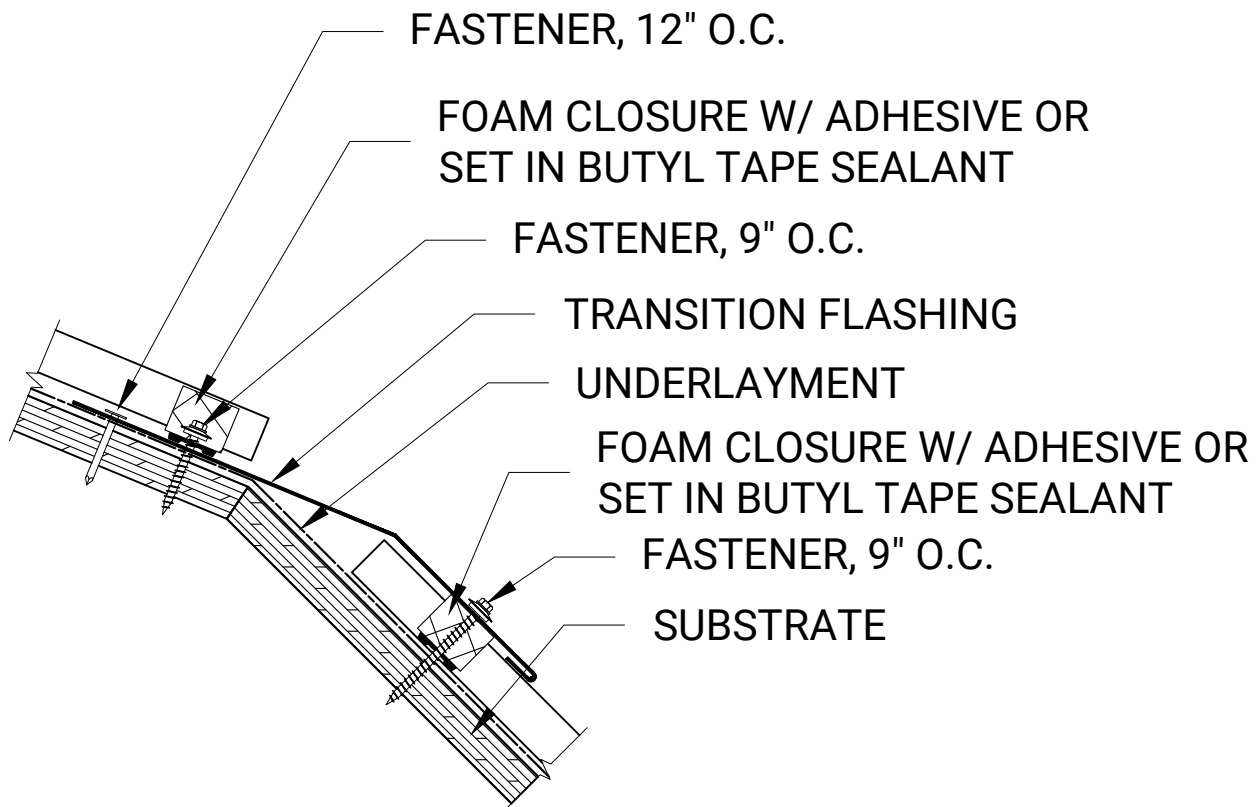
1. Install lower roof panels.
2. Install closures to lower roof panels.
3. Install High Low Transition over lower roof panels, make sure the transition covers closures. Fasten on top of all major ribs on lower roof panels.
4. Fasten upper leg of transition every 12".

TRANSITION HIGH-LOW



Material
Girth:
18.5"

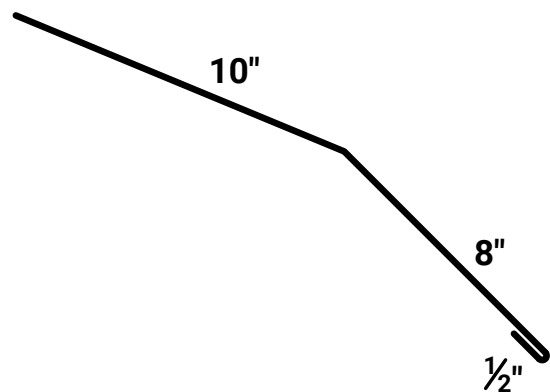
12
X
Provide Both Roof
Pitches - X



NOTES:

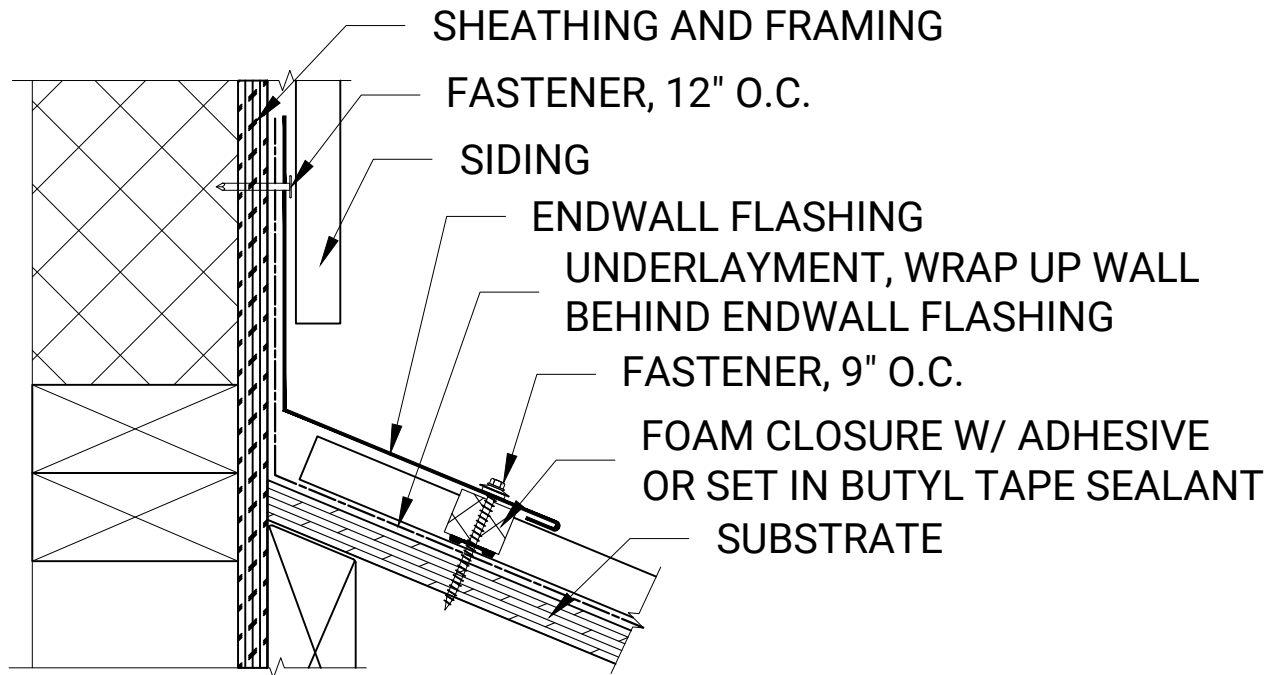
1. Install lower roof panels.
2. Install closures to lower roof panels.
3. Install Low High Transition over lower roof panels, make sure the transition covers closures. Fasten on top of all major ribs on lower roof panels.
4. Fasten upper leg of transition every 12".

TRANSITION LOW-HIGH



Material
Girth:
18.5"

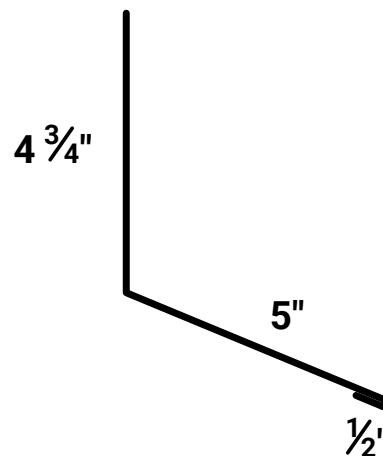
12
X
Provide Both Roof
Pitches - X



NOTES:

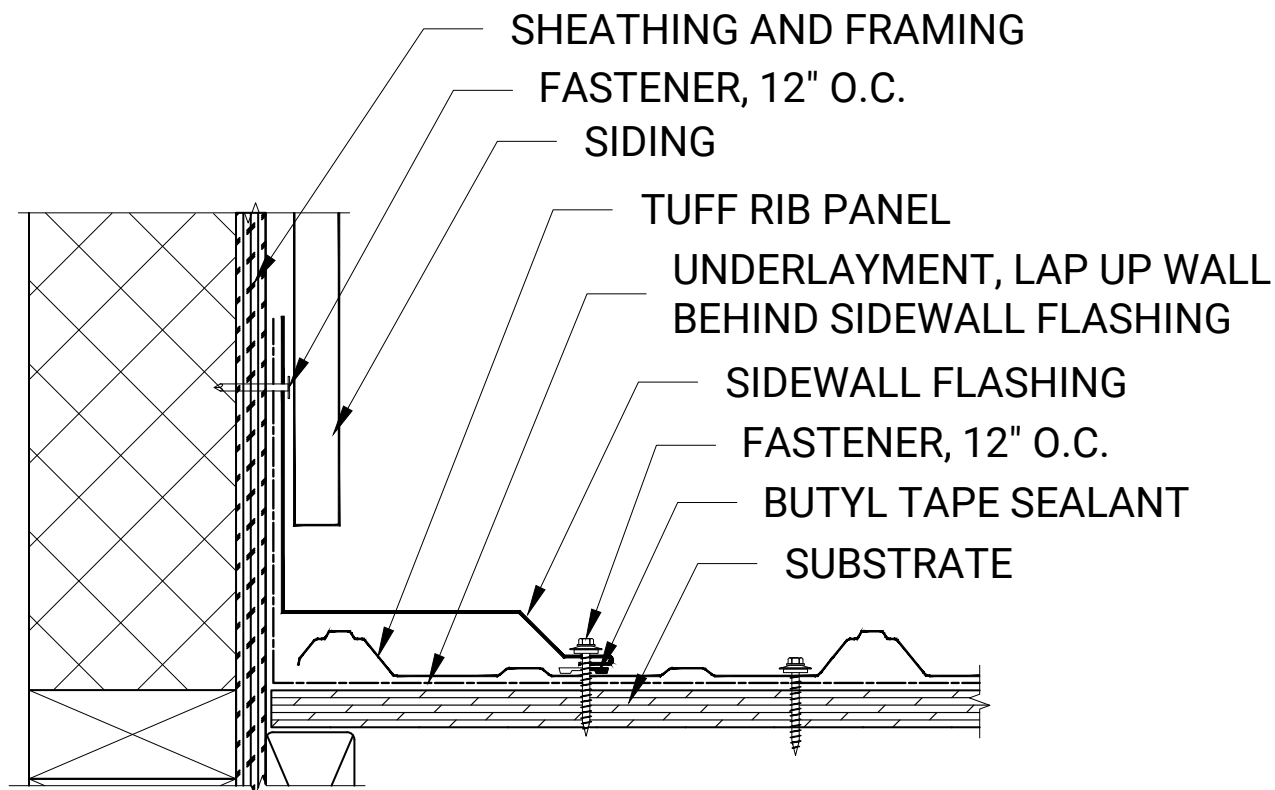
1. Install roof panels.
2. Install foam closure on roof panels.
3. Place endwall on the top of the roof panel and fasten endwall trim every 9" o.c. (major rib).
4. Fasten upper flange to wall every 12".

ENDWALL



Material
Girth:
10.25"

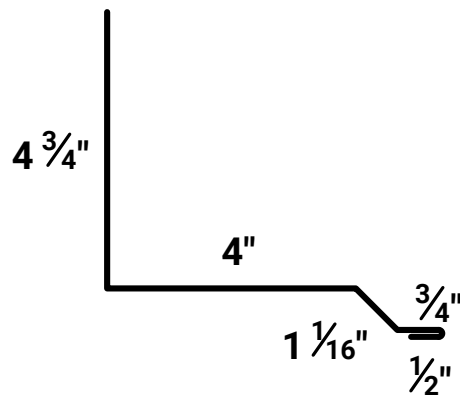
$\times \sqrt{\frac{12}{\text{Pitch}}}$
Provide Roof Pitch - X
(6:12 Max)



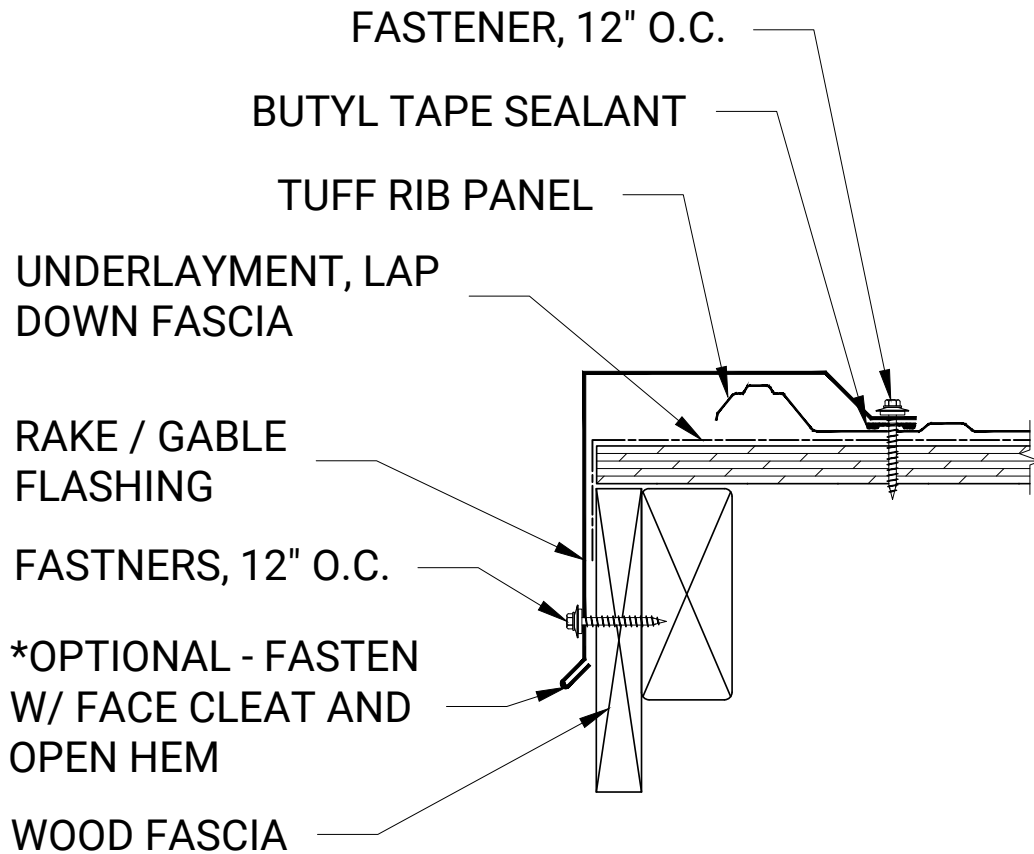
NOTES:

1. Install roof panels.
2. Install Sidewall Flashing on top of roofing panel. Butyl Tape Sealant is recommended between screw flange and roof panel.
3. Fasten through screw flange every 12" o.c.
4. Fasten nailing flange to wall every 12" o.c.

SIDEWALL



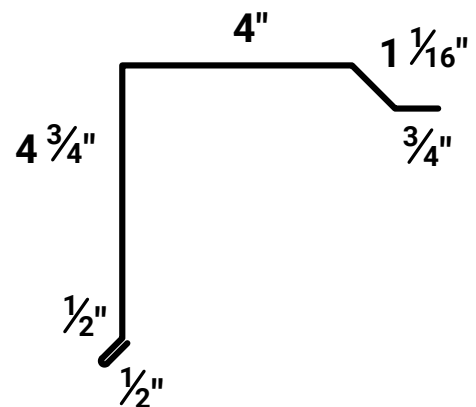
Material
Girth:
11.063"



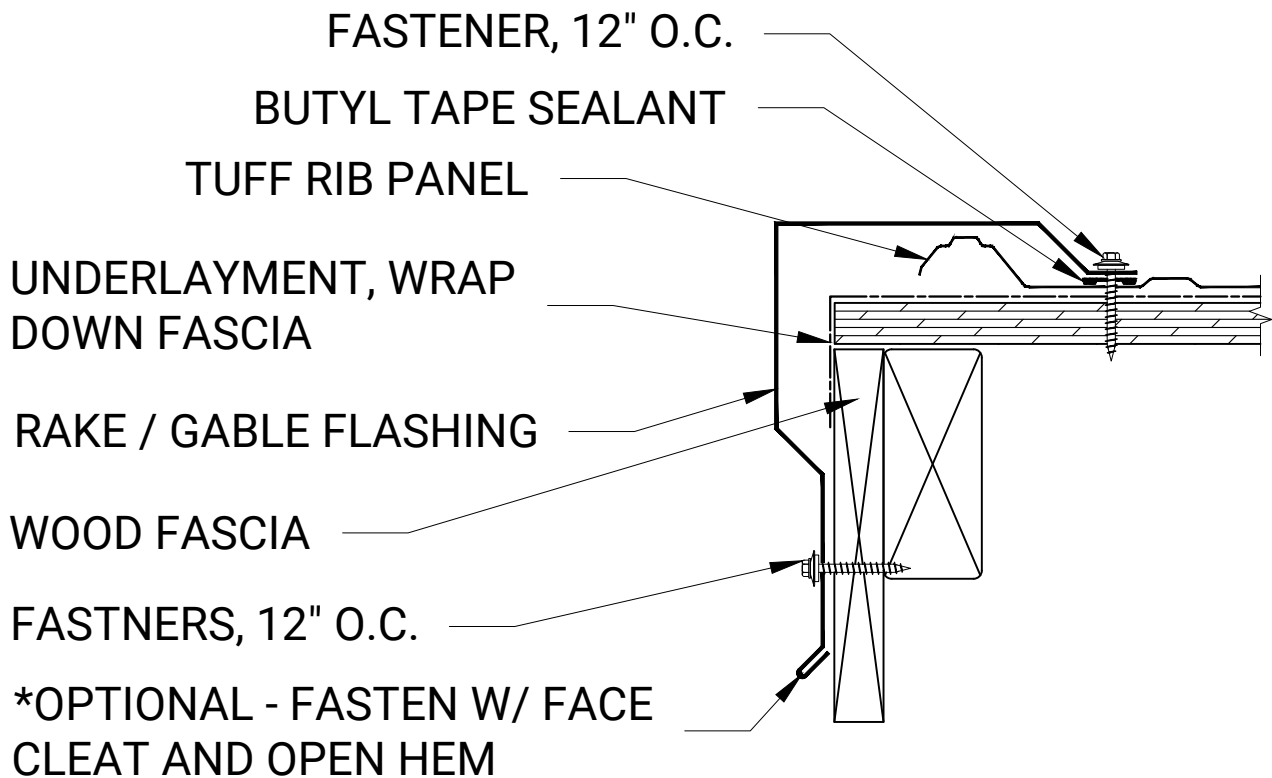
NOTES:

1. Apply roofing panels to building.
2. Place gable trim on top of roof sheet and fasten every 12" o.c. Butyl Tape Sealant is recommended between screw flange and roof panel.

2X4 GABLE



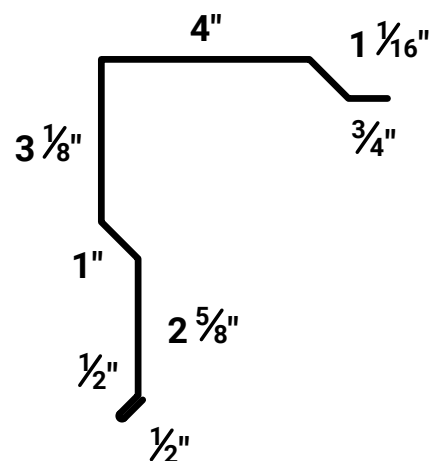
Material
Girth:
11.563"



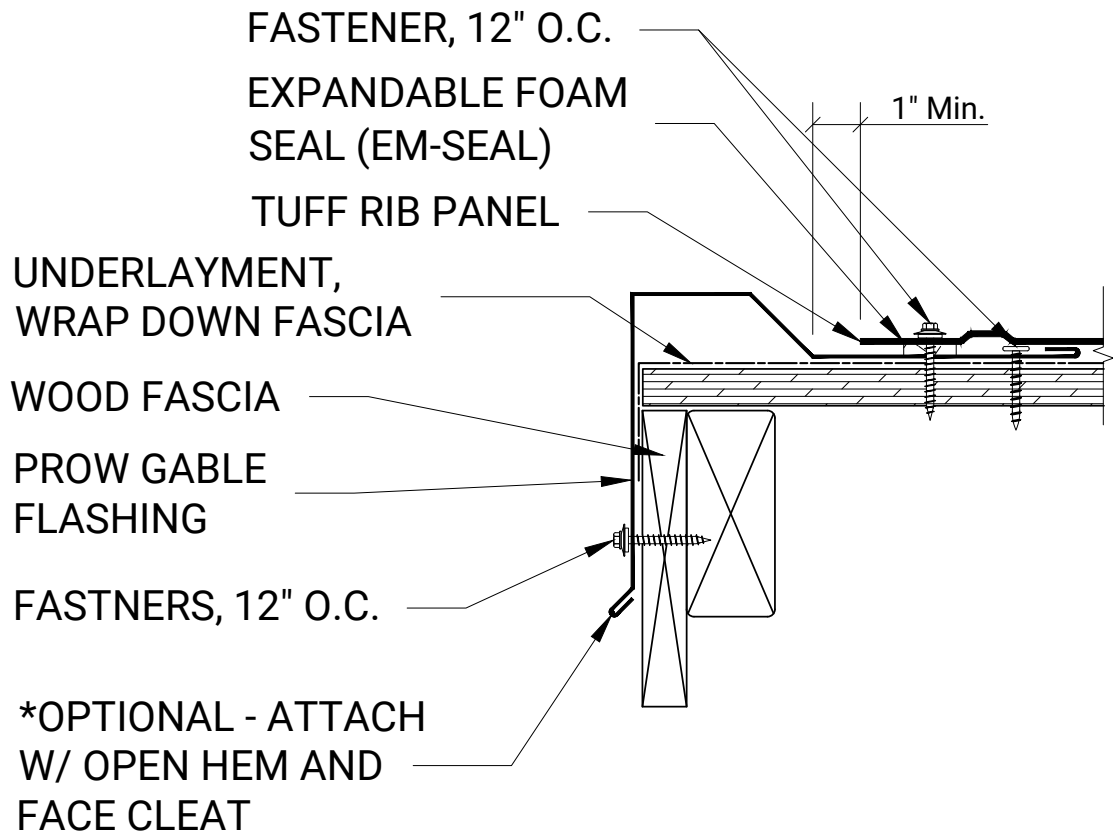
NOTES:

1. Apply roofing panels to building.
2. Place gable trim on top of roof sheet and fasten every 12" o.c. Butyl Tape Sealant is recommended between screw flange and roof panel.

2X6 GABLE



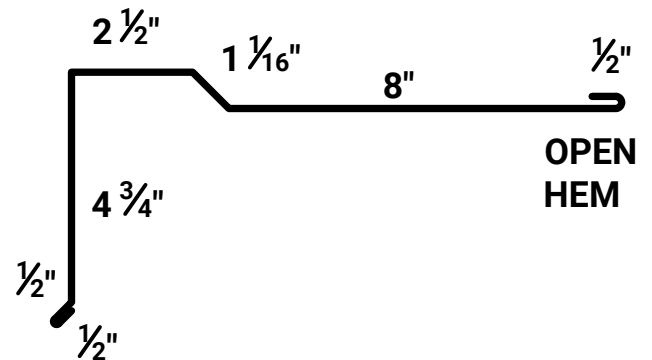
Material
Girth:
13.563"



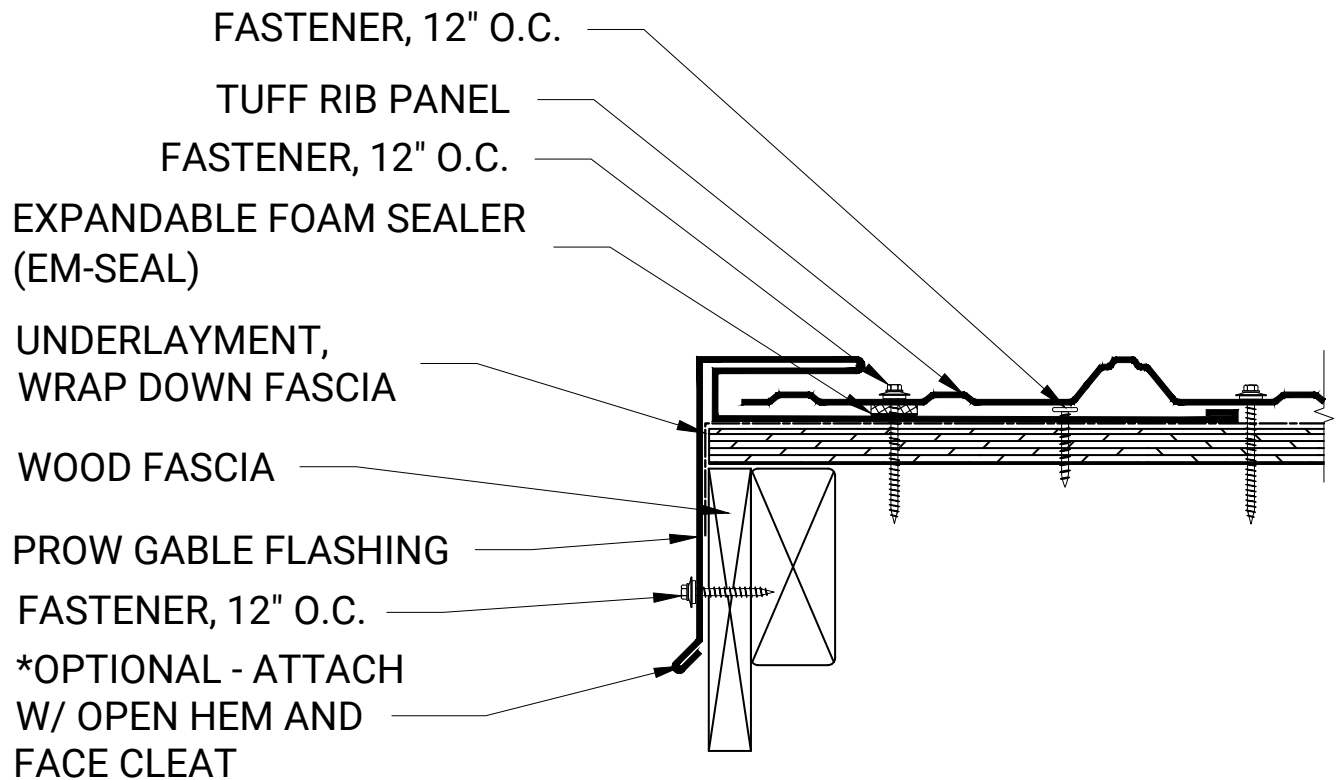
NOTES:

1. Install underlayment over edge of prow gable.
2. Lay prow gable trim down and fasten 2" from the outside edge every 12" o.c.
3. Apply expandable foam sealer under panel leaving panel 1" from flashing closure.

OPEN PROW GABLE



Material
Girth:
17.313"

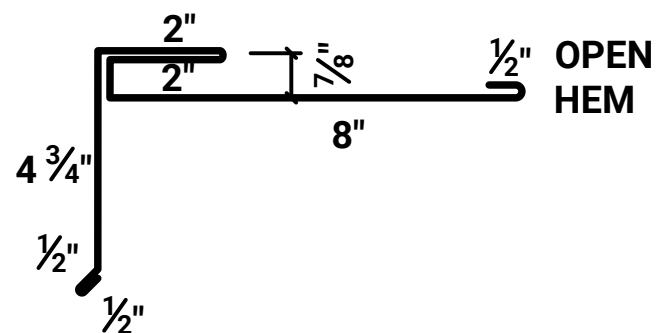


NOTES:

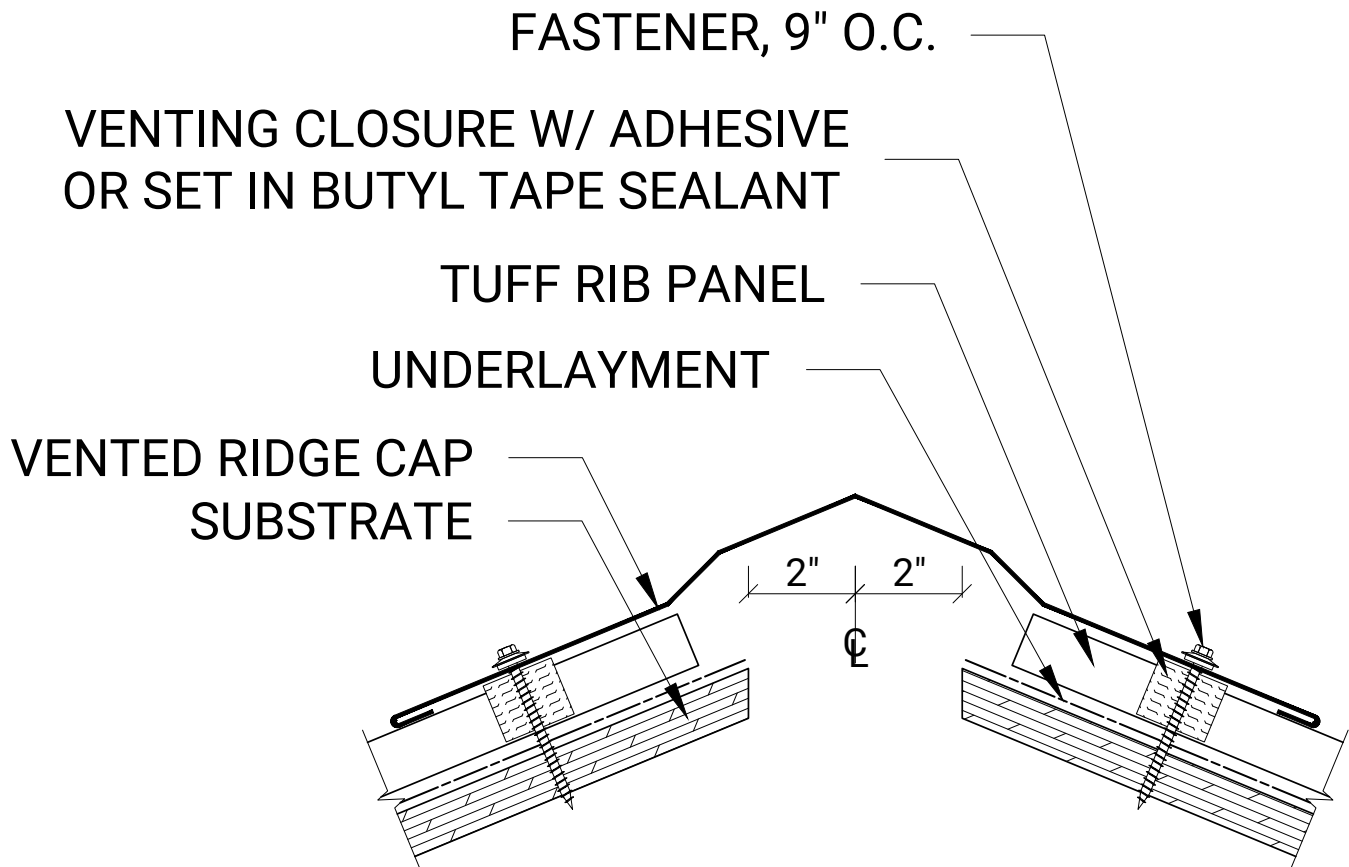
1. Install underlayment over edge of prow gable.
2. Lay prow gable trim down and fasten 2" from the outside edge every 12" o.c.
3. Apply expandable foam sealer under panel leaving panel 1" from flashing closure.

****Not recommended in cold climates due to potential ice accumulation.****

CLOSED PROW GABLE



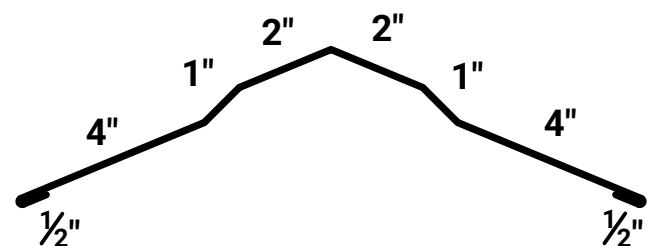
Material
Girth:
19.125"



NOTES:

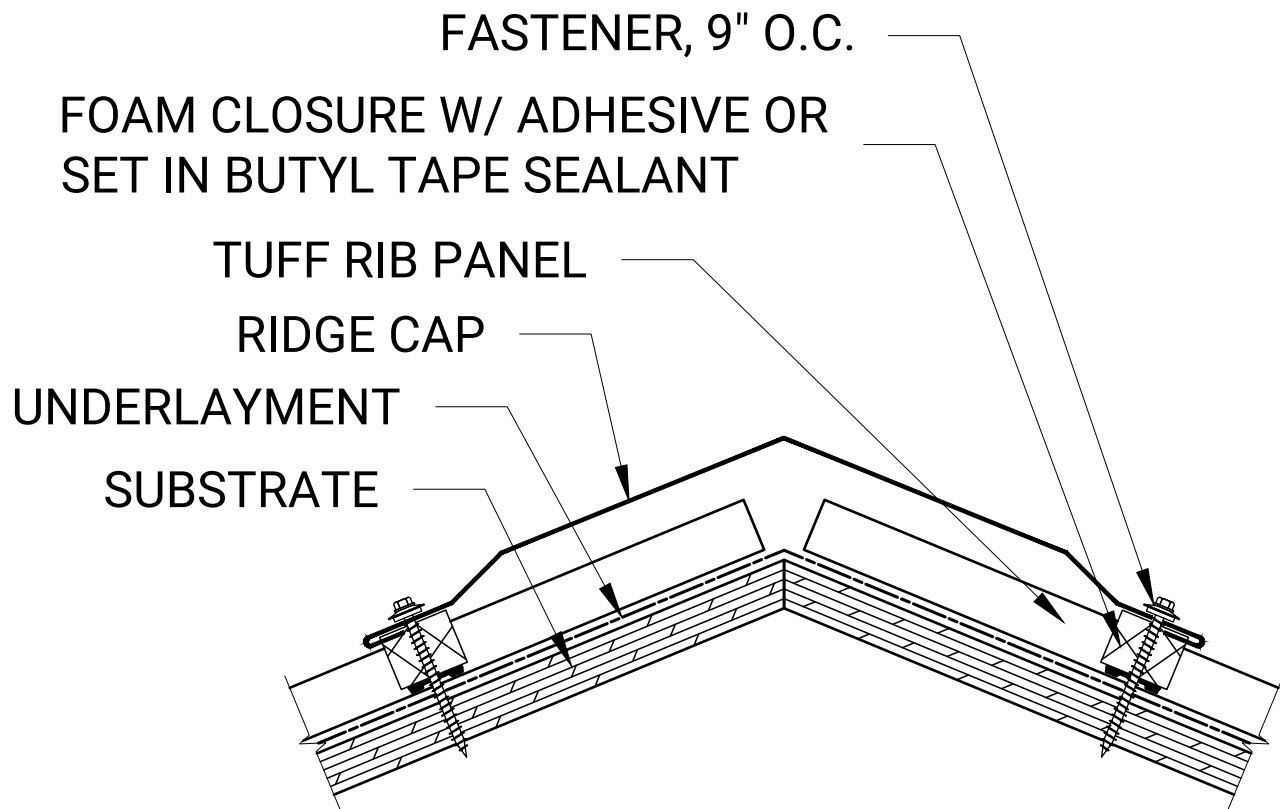
1. Make sure to leave a 2" gap from both sides of the ridge.
2. Install roof panels on both sides of the ridge, making sure not to cover up the 2" opening at the ridge.
3. Place vented closures on roof panel and fasten down both sides of the ridge on every major rib.

VENTED RIDGE CAP



Material
Girth:
15.0"

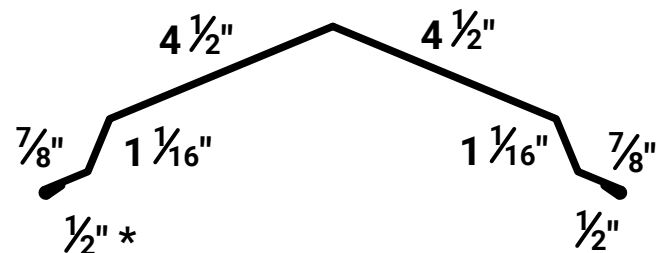
12
X
Provide Roof Pitch - X



NOTES:

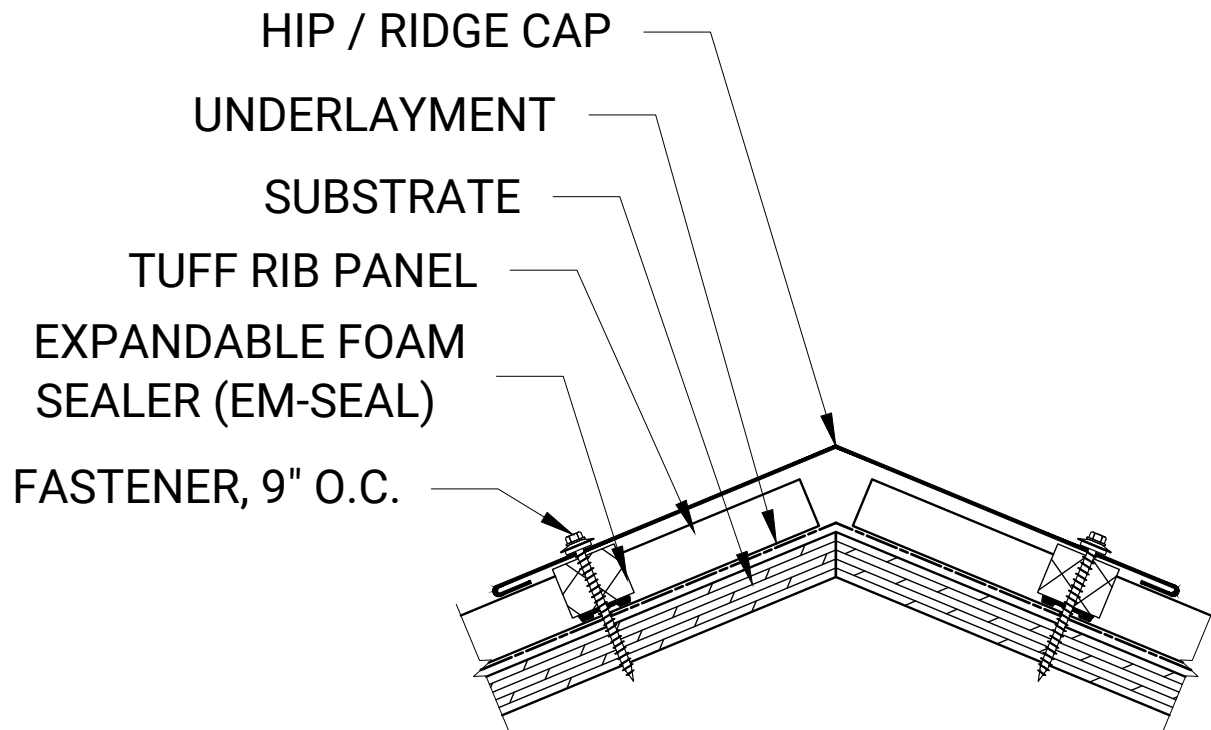
1. Install roof panels on both sides of ridge.
2. Place foam closure between panels and ridge cap.
3. Place ridge on roof and fasten on every major rib both sides of roof.

NON-VENTED RIDGE CAP



Material
Girth:
13.875"

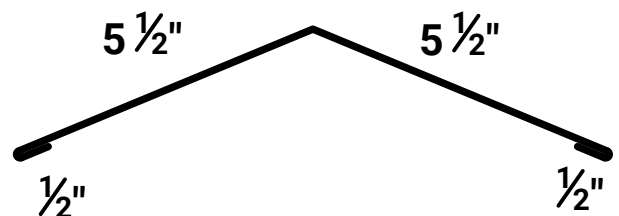
12
X Provide Roof Pitch - X



NOTES:

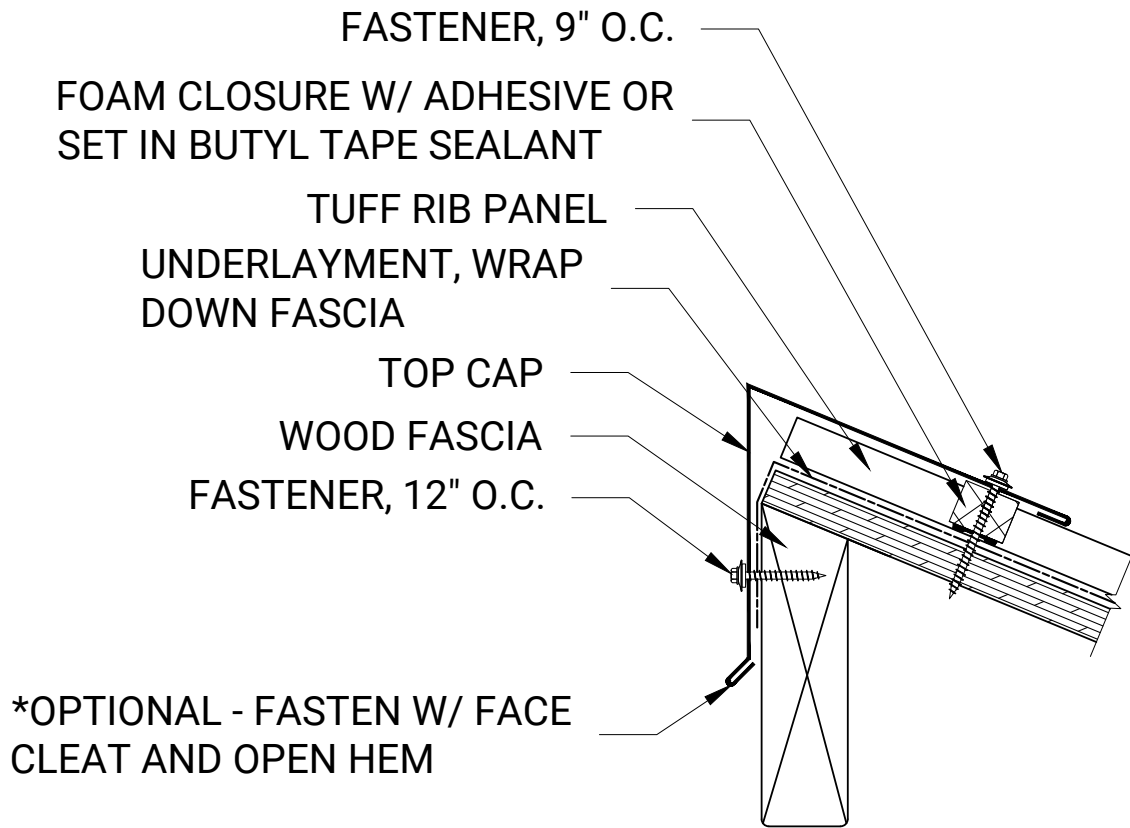
1. Install roof panels on both sides of ridge.
2. Place foam closure between panels and ridge cap.
3. Place ridge on roof and fasten on every major rib both sides of roof.

HIP RIDGE



Material
Girth:
12.0"

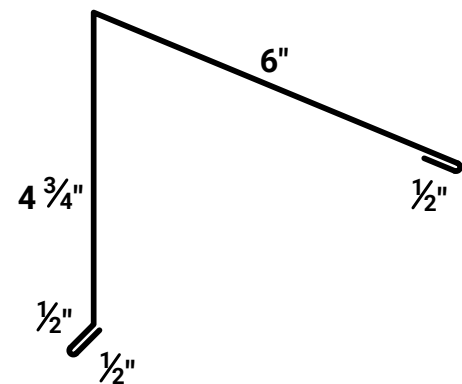
12
X
Provide Roof Pitch - X



NOTES:

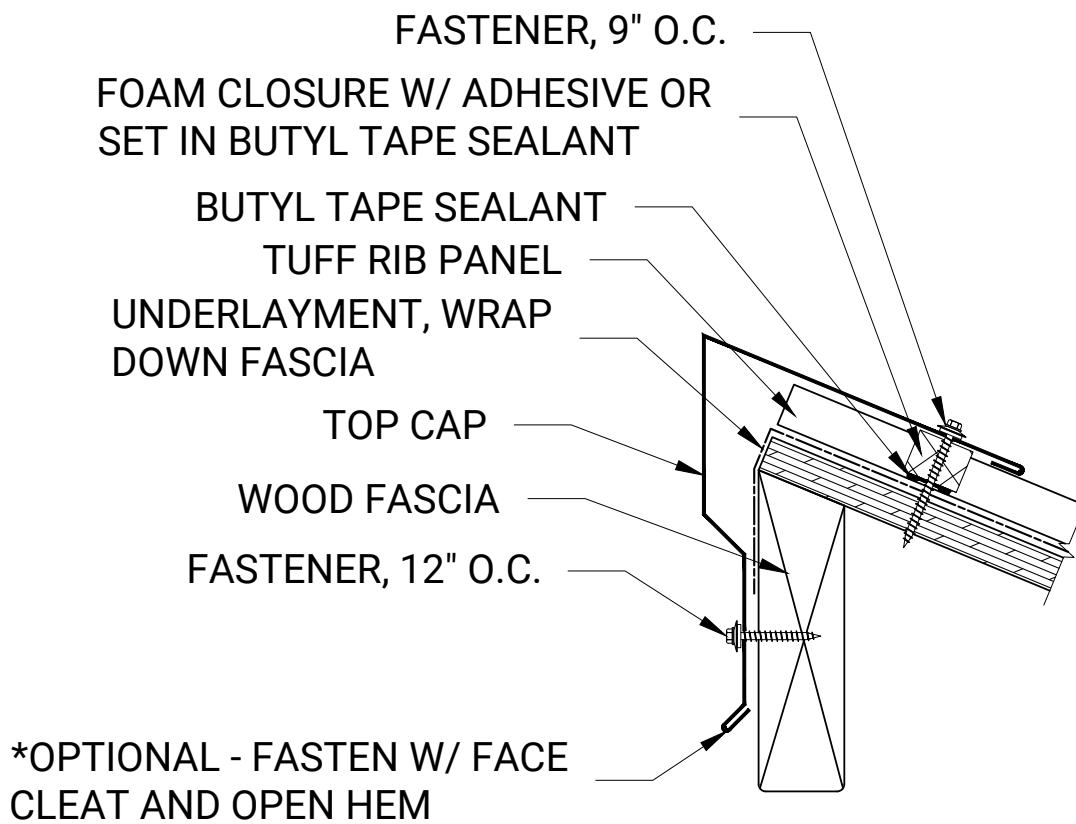
1. Install roof on building.
2. Install closures on upper portion of roof.
3. Place top cap over roof panels and closure.
4. Fasten top cap on every major rib of roof panel.

4" TOP CAP



Material
Girth:
12.25"

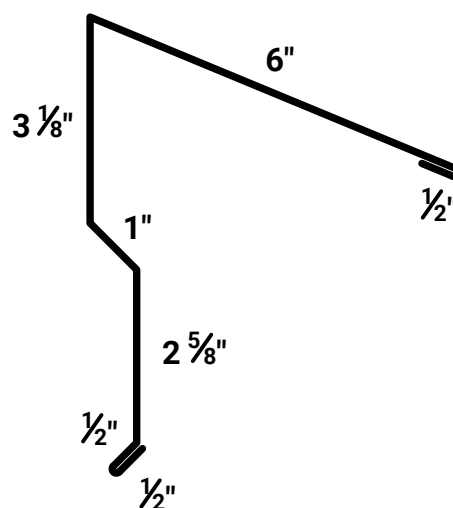
12
X
Provide Roof Pitch - X



NOTES:

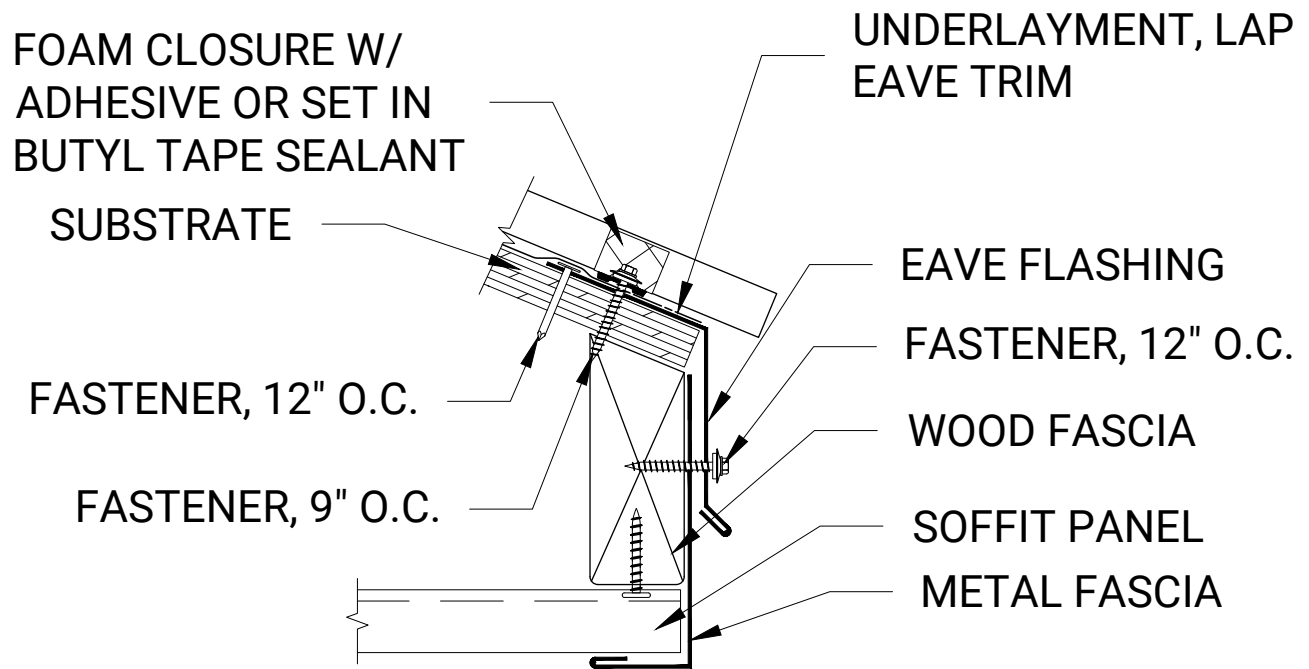
1. Install roof on building.
2. Install closures on upper portion of roof.
3. Place top cap over roof panels and closure.
4. Fasten top cap on every major rib of roof panel.

6" TOP CAP



Material
Girth:
14.25"

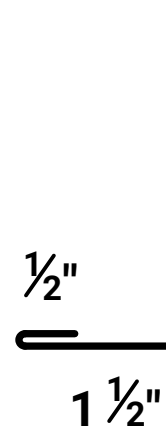
12
X
Provide Roof Pitch - X



NOTES:

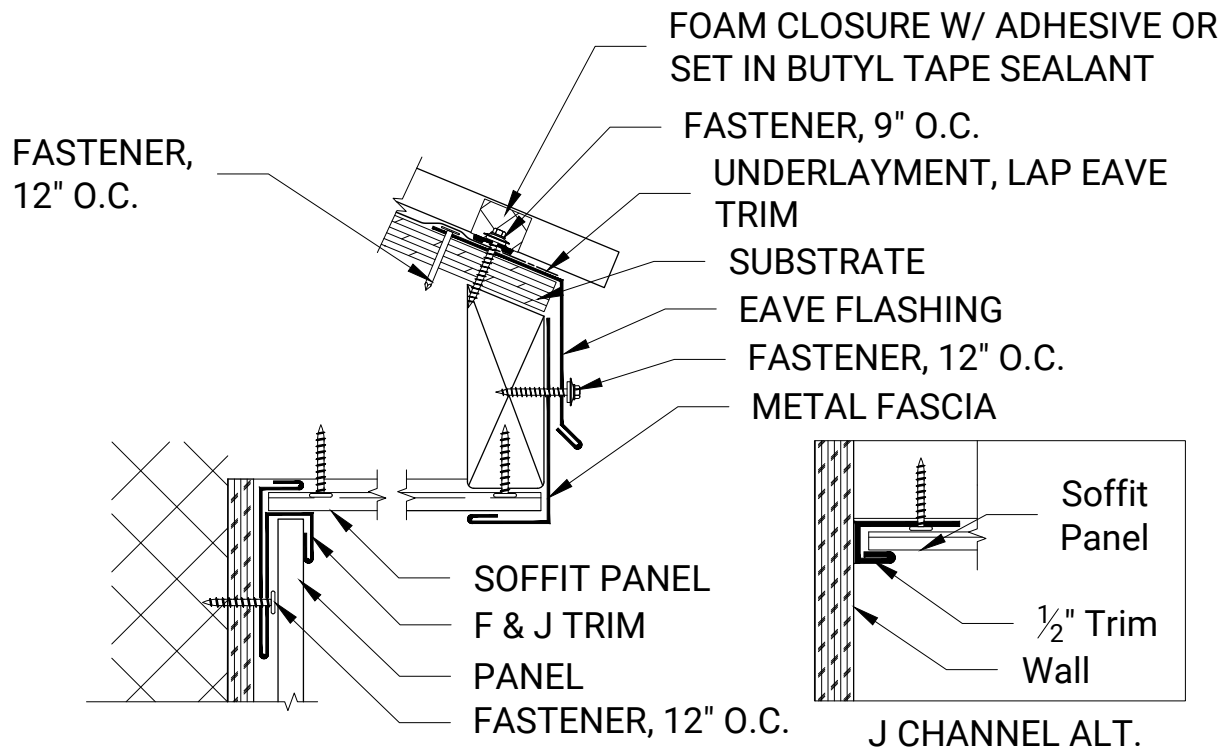
1. Apply metal fascia over soffit and over fascia material.
2. Fasten metal fascia to fascia board every 12".

FASCIA



SPECIFY

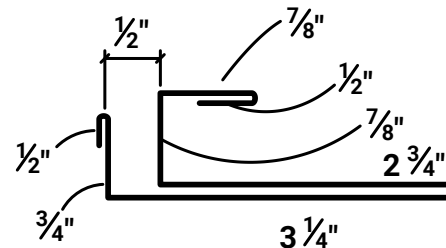
Material
Girth:
Varies



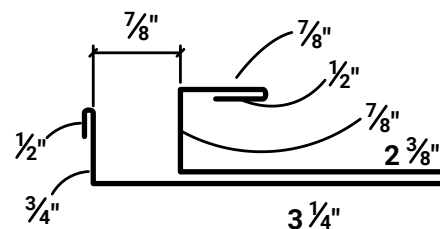
NOTES:

1. Place either F & J or 1/2" J Trim on wall of the building.
2. Make sure that the F & J or J Trim is parallel with your fascia.
3. Once F & J or 1/2" J Trim is installed, either install wall panels or soffit panel.

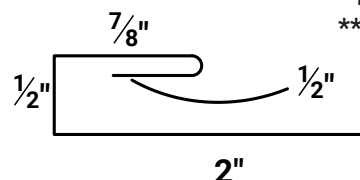
F & J TRIM / 1/2" J TRIM



1/2" F&J Material*
Girth:
9.5"

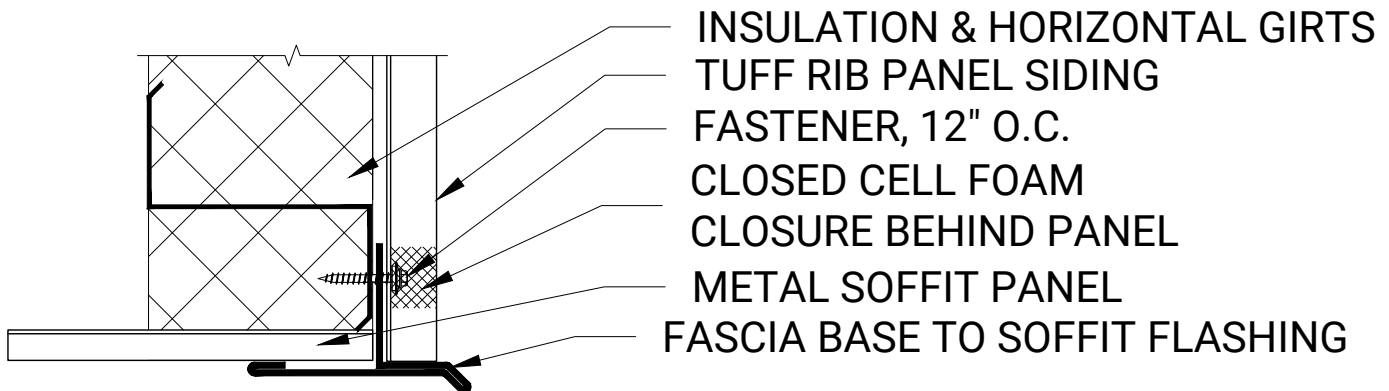


3/4" F&J Material**
Girth:
9.875"



* For use with V-Soffit Panel
** For use with Tuff Rib Panel

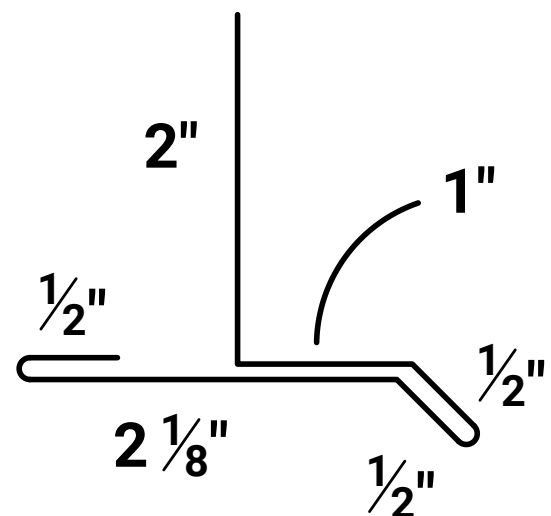
1/2" J Material
Girth:
3.875"



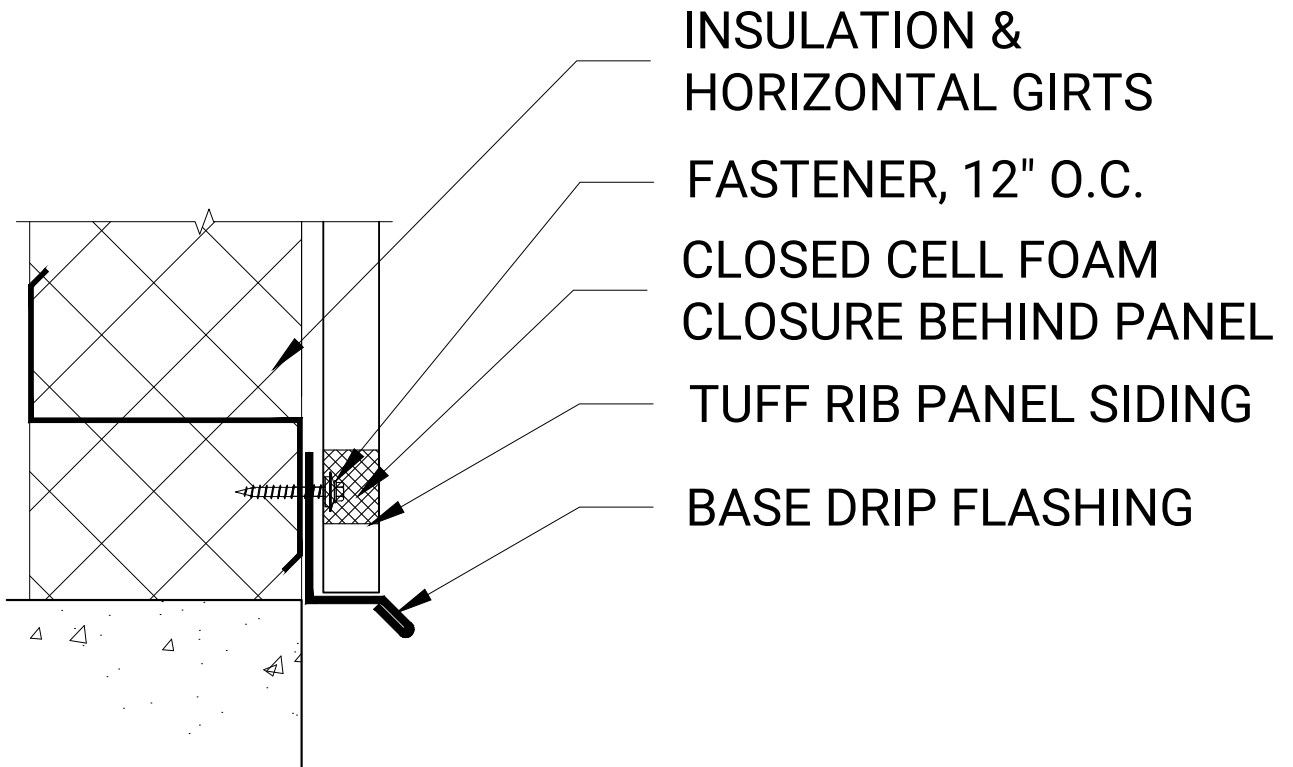
NOTES:

1. Once soffit is installed, install base flush to soffit panels.
2. Fasten Base-to-Soffit flashing to fascia board every 12".

BASE TO SOFFIT



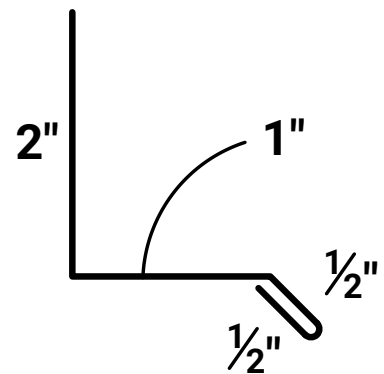
Material
Girth:
6.625"



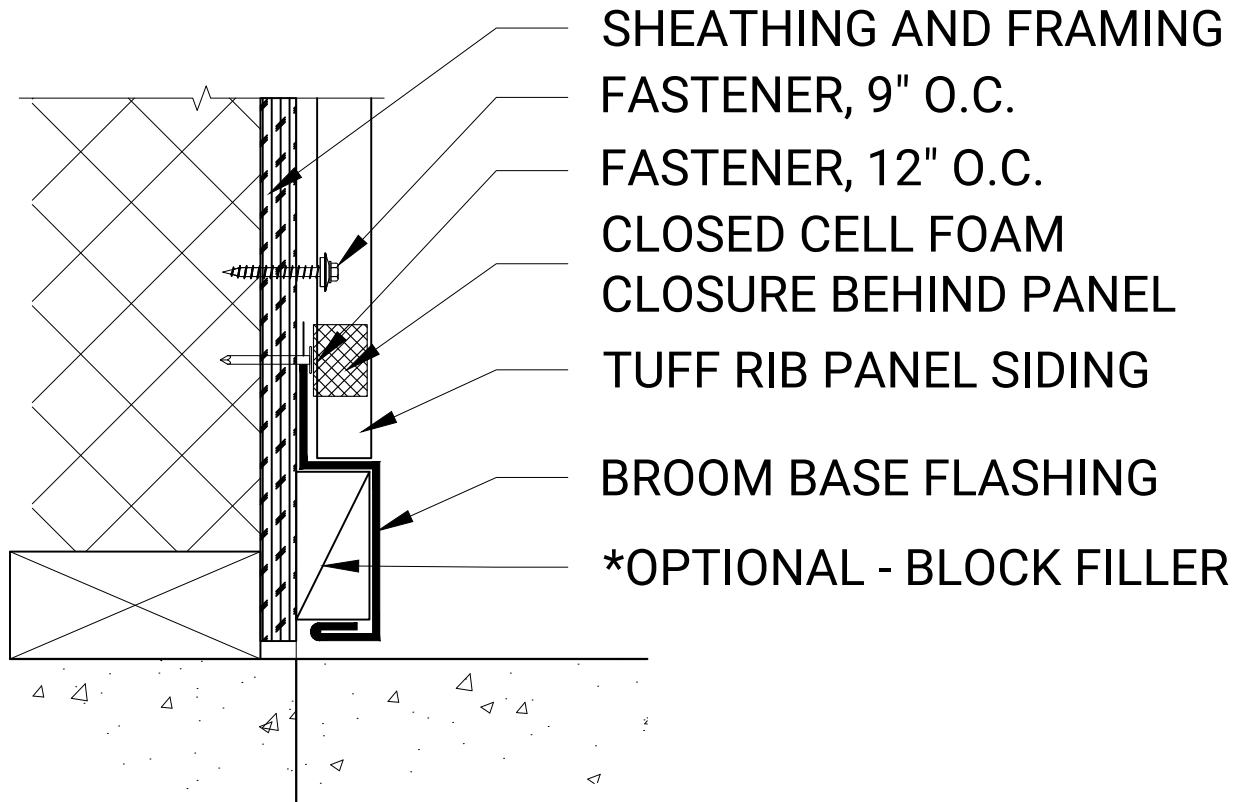
NOTES:

1. Apply Base Drip to bottom of wall to keep panels straight.
2. Base Drip must be installed above ground and fastened every 12" o.c. on nailing flange.

BASE DRIP



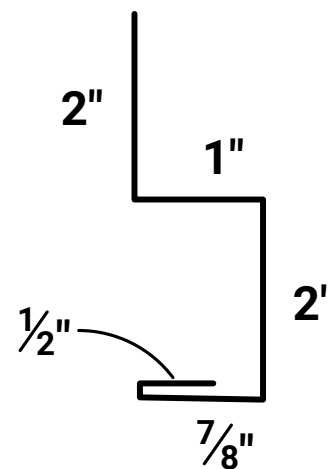
Material
Girth:
4.0"



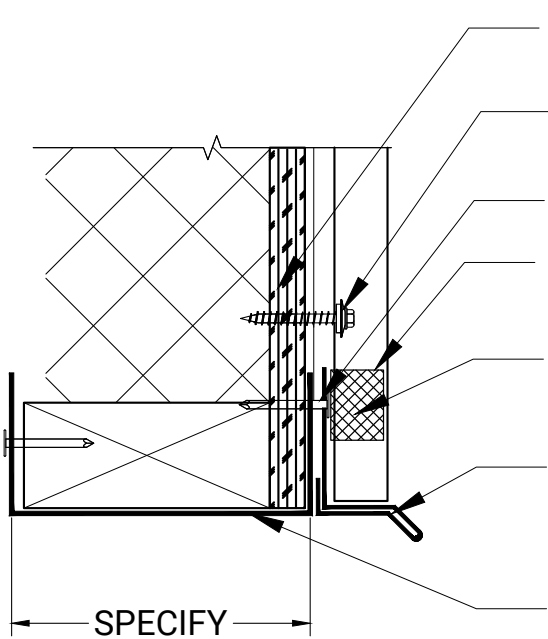
NOTES:

1. Apply Broom Base to bottom of wall to keep panels straight.
2. Broom Base is designed to be installed at floor level and fastened every 12" o.c. on nailing flange.

BROOM BASE



Material
Girth:
6.375"



SHEATHING & FRAMING

FASTENER, 9" O.C.

FASTENER, 12" O.C.

TUFF RIB PANEL SIDING

CLOSED CELL FOAM

CLOSURE BEHIND PANEL

DOUBLE BASE DRIP FLASHING

DOOR CAP AT WINDOW OR DOOR
OPENING - OPTIONAL

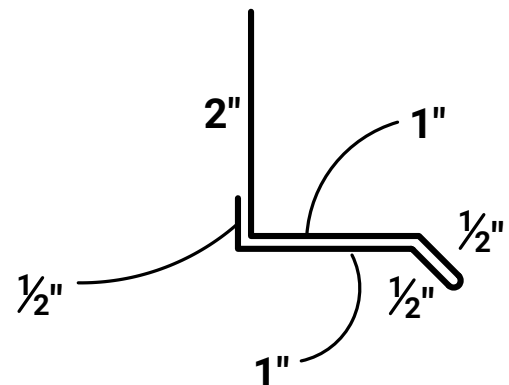
NOTES:

This is one option for trimming the tops of doors and windows. See also Head Trim.

1. Apply Double Base Drip to top of opening where under side of Base is exposed.

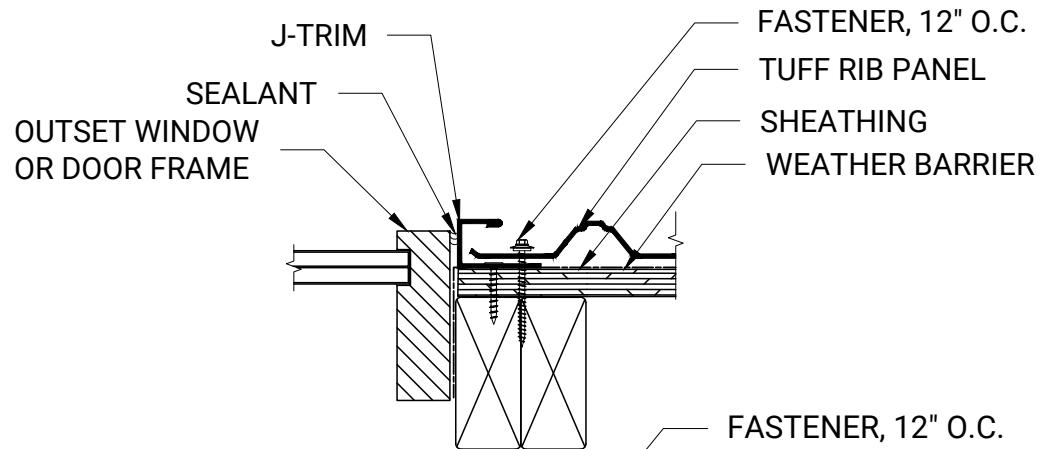
2. Double Base Drip is fastened every 12" o.c. on nailing flange.

DOUBLE BASE DRIP

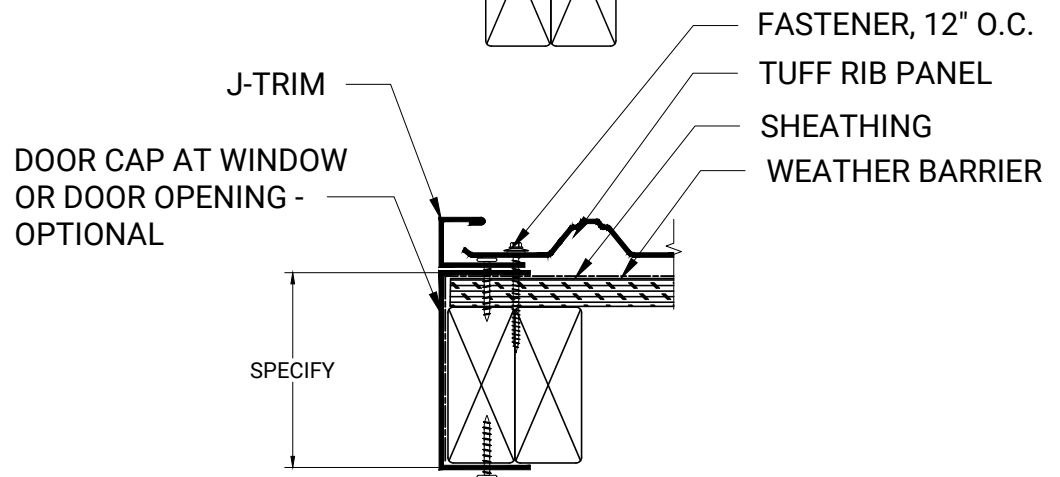


Material
Girth:
5.5"

PROUD WINDOW JAMB



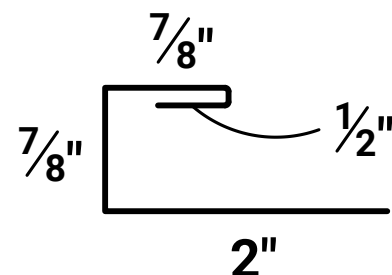
INSET WINDOW JAMB



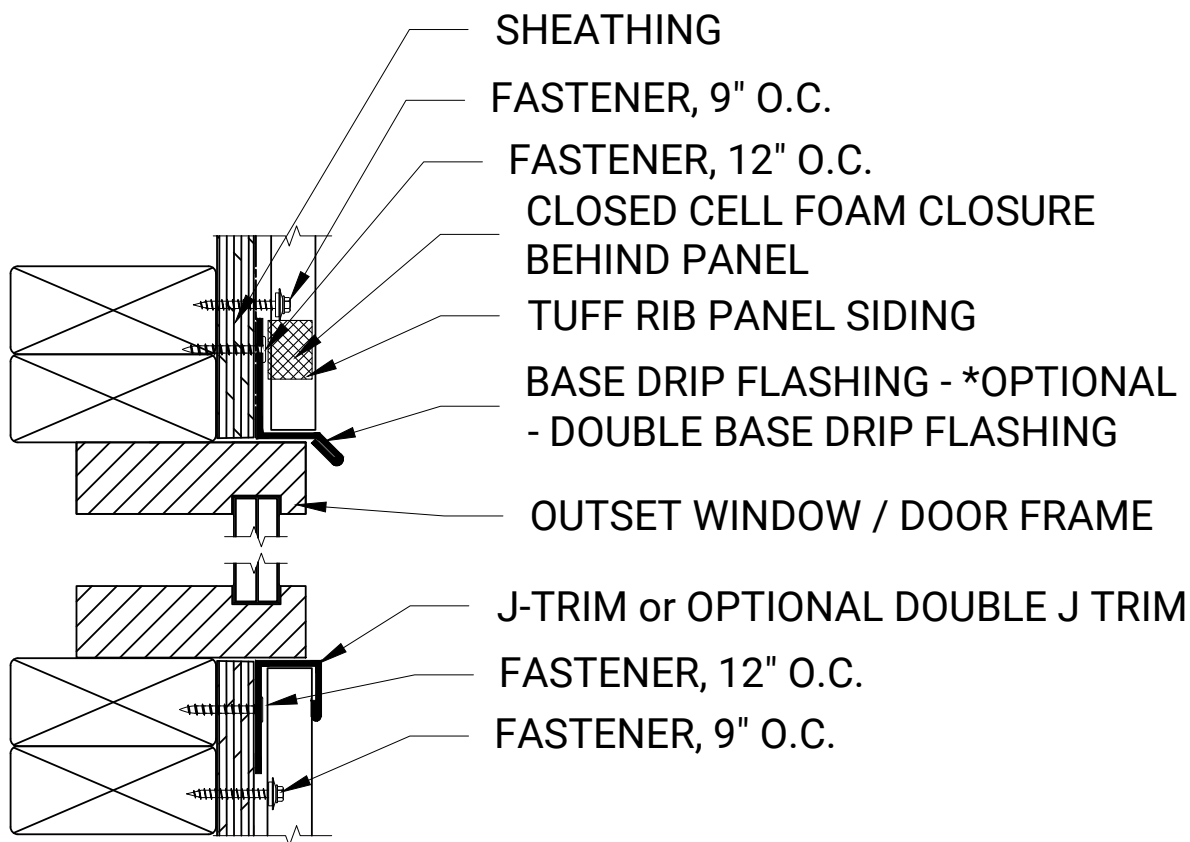
NOTES:

1. Apply J Channel flush to proud trim or edge of opening over leg of door cap.
2. Fasten J channel every 12" o.c. on nailing flange.
3. Install wall panels into J Channel and fasten accordingly.

J CHANNEL



Material
Girth:
4.25"



NOTES:

This is one option for trimming the tops of doors and windows. See also Head Trim.

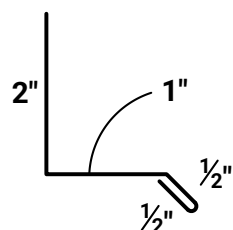
1. Apply Double Base Drip to top of opening where under side of Base is exposed.

2. Double Base Drip is fastened every 12" o.c. on nailing flange.

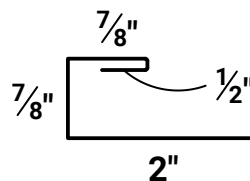
3. Apply J Channel flush to proud trim under sill of window and attach every 12" o.c.

4. Install wall panels and fasten accordingly.

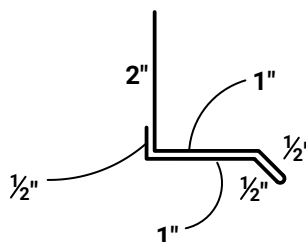
BASE DRIP & J CHANNEL OPTIONS



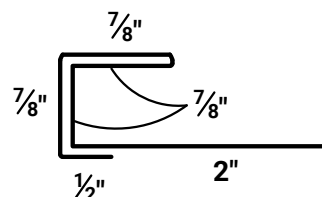
Material
Girth:
4.0"



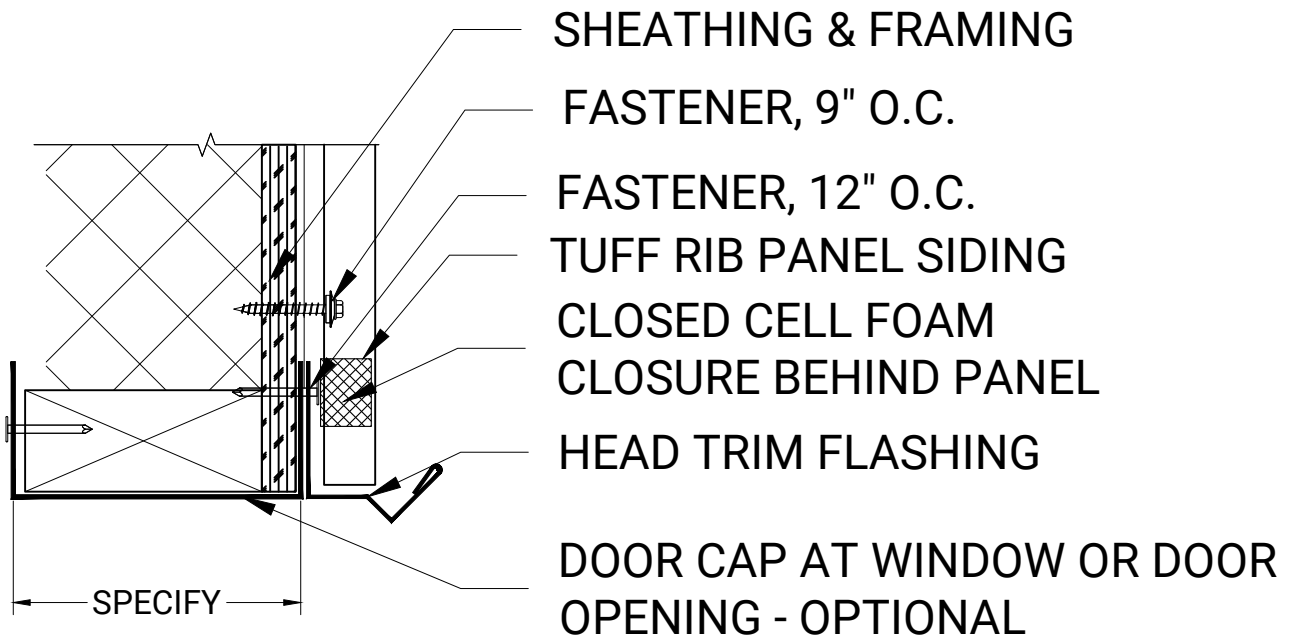
Material
Girth:
4.25"



Material
Girth:
5.5"



Material
Girth:
6.0"

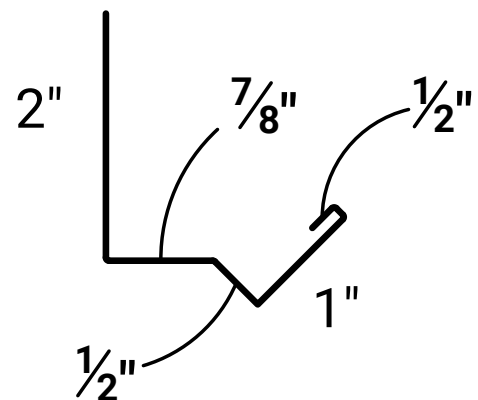


NOTES:

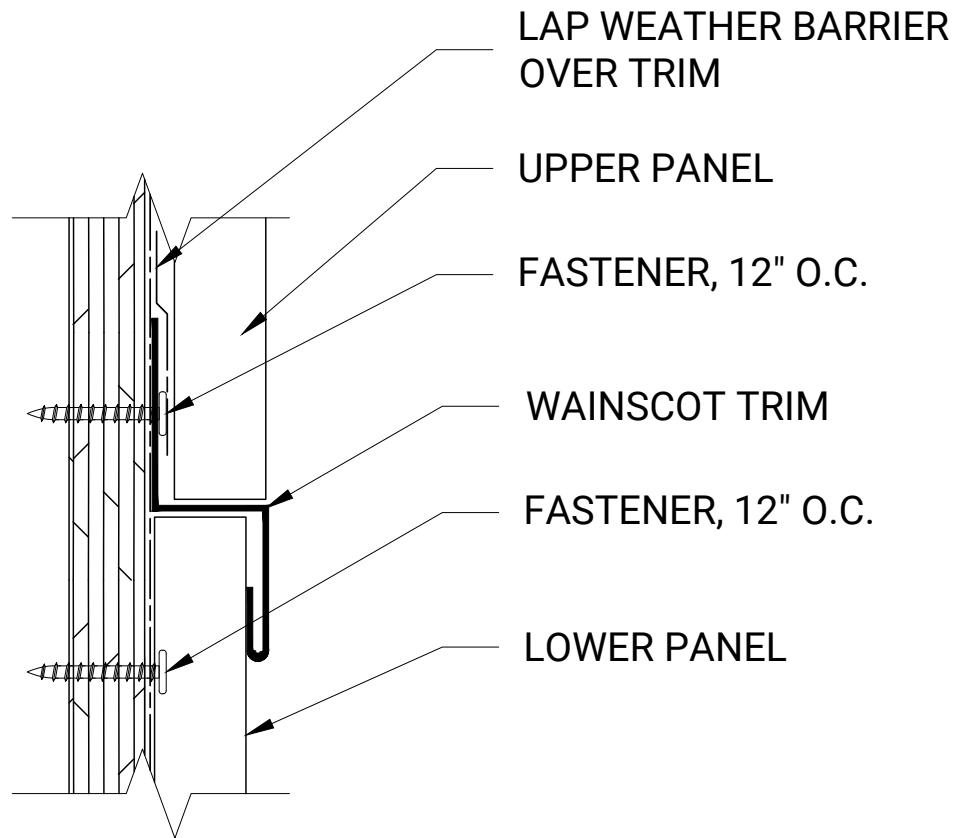
This is one option for trimming the tops of doors and windows. See also Double Drip Base.

1. Apply Head trim to top of widows and doors as a header option.
2. Fasten Head Trim every 12" o.c.on nailing flange.

HEAD TRIM



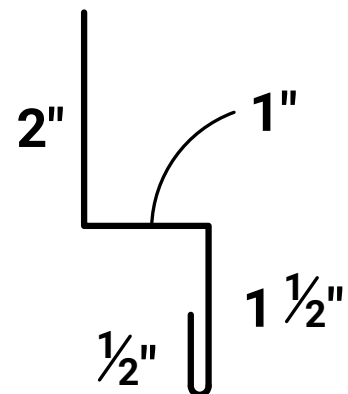
Material
Girth:
4.875"



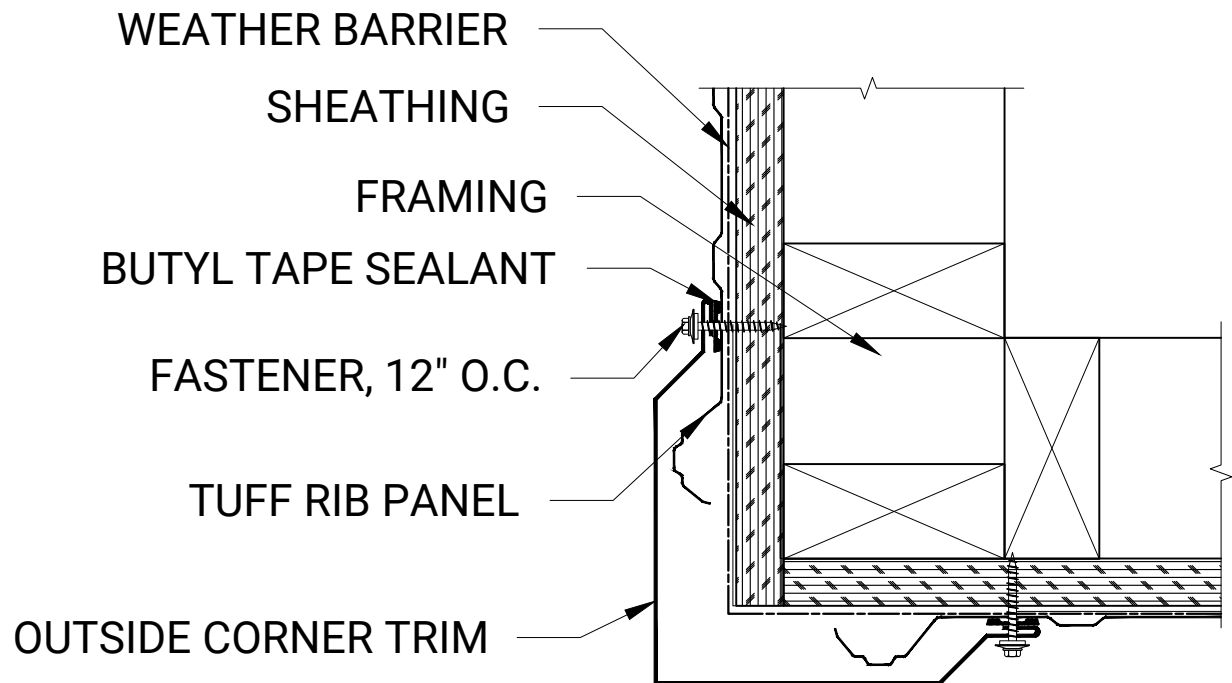
NOTES:

1. Apply Wainscot above wainscot panel wall applications as a base for upper wall panels.
2. Fastened every 12" o.c. on nailing flange.

WAINSCOT



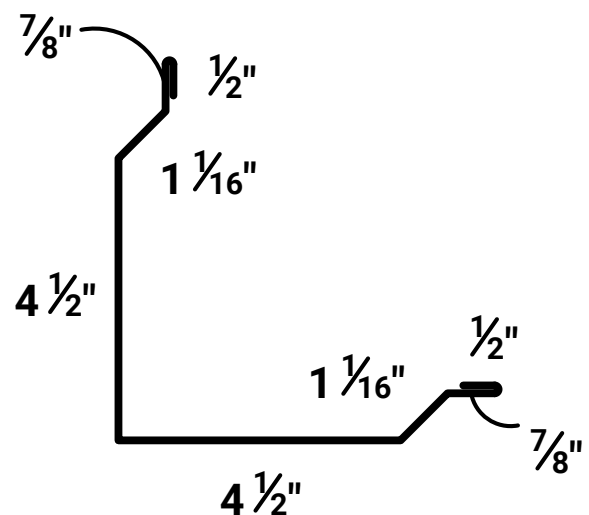
Material
Girth:
5.0"



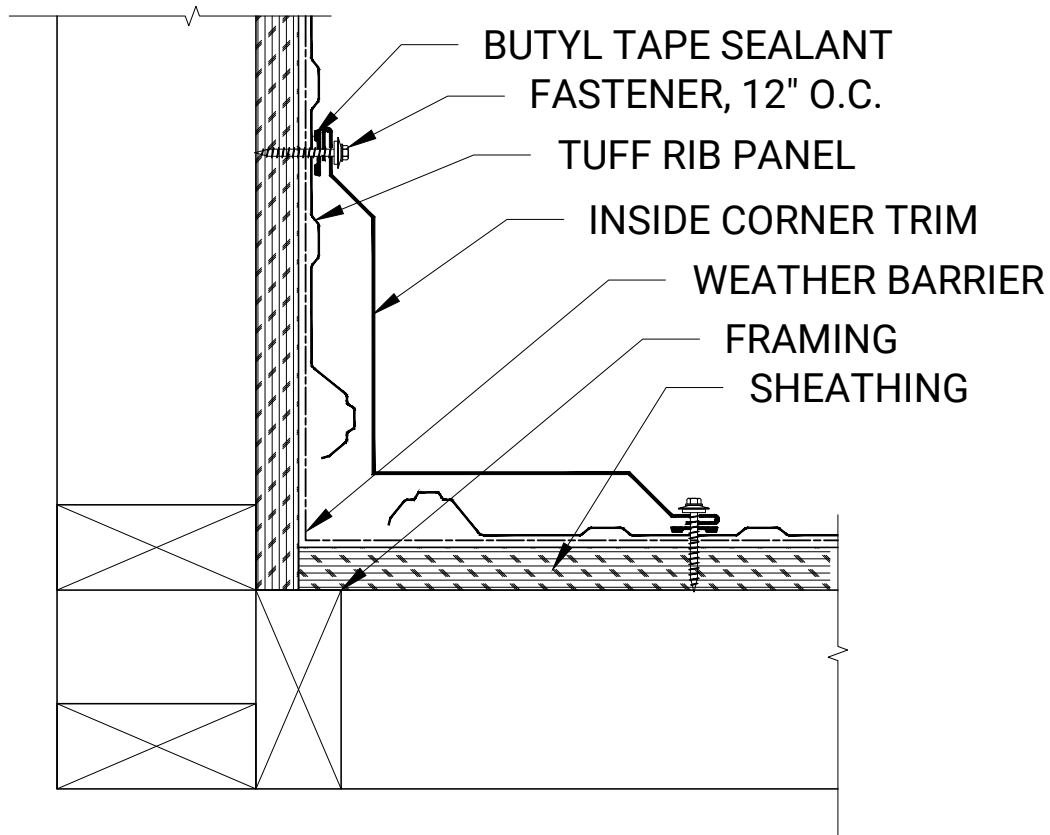
NOTES:

1. Install wall panels.
2. Install corners on the building, always working from base of wall to roof. Fasten every 12" on both sides of corner.

OUTSIDE CORNER



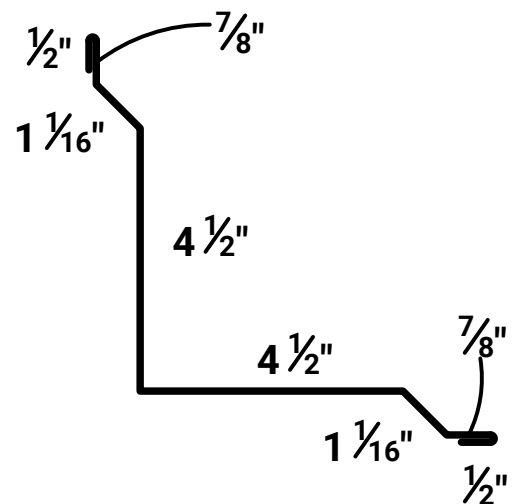
Material
Girth:
13.875"



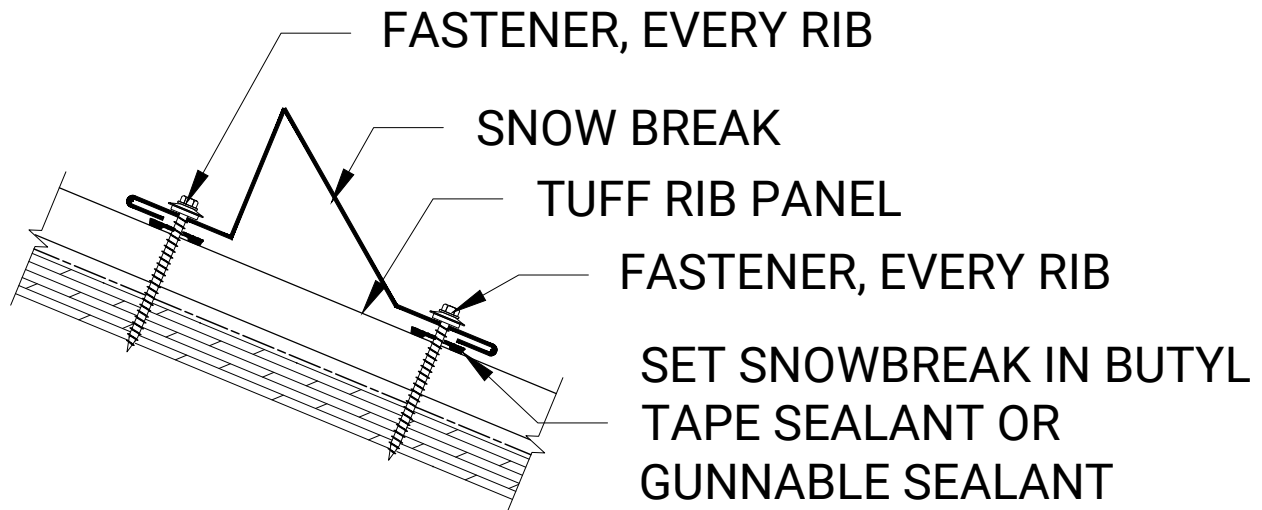
NOTES:

1. Install wall panels.
2. Install corners on the building, always working from base of wall to roof. Fasten every 12" on both sides of corner.

INSIDE CORNER



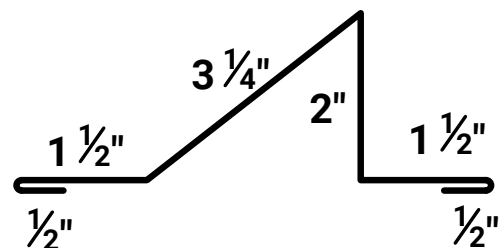
Material
Girth:
13.875"



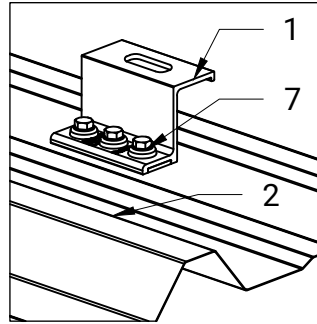
NOTES:

1. For sheeted roofs, install first row of snow break 6" to 12" above the eave line.
2. For open framed roofs, install first row of snow break over the first roof purlin.
3. Top and bottom flange of the snow break trim must be securely fastened into the roof deck or roof purlin with 2" fasteners.

SNOW BREAK

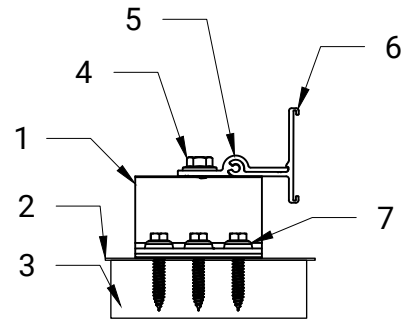
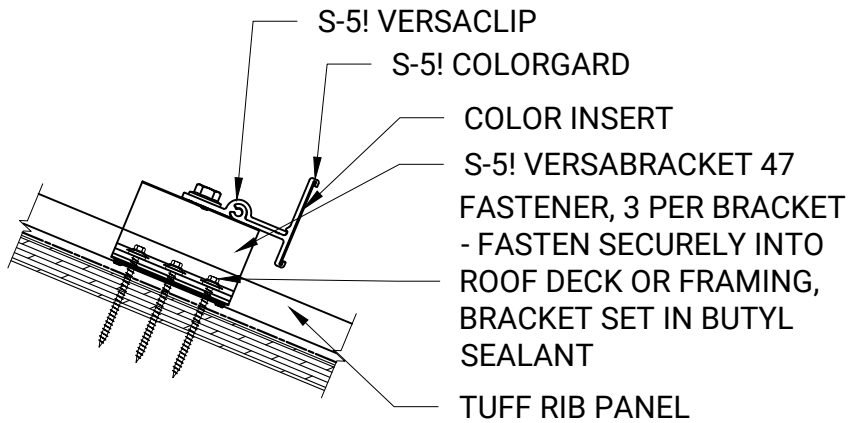


Material
Girth:
9.25"



GENERAL NOTES:

1. VERSABRACKET 47
2. TUFF RIB PANEL
3. SUBSTRATE
4. M8 HEX FLANGE BOLT
5. VERSACLIP
6. COLORGARD
7. FASTENER



NOTES:

1.Snow retention calculations available.
Consult with your Product Specialist.
Provide the engineered roof snow
load for accurate snow retention
calculations.

S-5! COLORGARD COLOR INSERT



2" Color Insert

Material
Girth:
2.0"

BRIDGER STEEL SAMPLE SMP FINISH WARRANTY

Contact your Product Specialist for details regarding the warranty on the paint finish and integrity for the actual material used on your project.

The following table is an example of our 40 Year SMP paint finish warranty. Bridger Steel Warranties are non-transferrable.

| Type of Environment of Installation | Film Integrity (Years) | Color Fade (Years) <6 Non Vertical, Years 1 through 10 <8 Non Vertical, Years 11 through 30 <5 Vertical, Years 1 through 10 <7 Vertical, Years 11 through 30 (In Hunter Delta E Units) | Chalk Rating (Years) >7 Non Vertical, Years 1 through 10 >5 Non Vertical, Years 11 through 30 >8 Vertical, Years 1 through 10 >6 Vertical, Years 11 through 30 (Using ASTM D-4214 Stds) |
|--|------------------------|---|--|
| Residential, Commercial and School – Buildings used for habit- station, Distribution Centers, Hotels, Shopping Malls, Office Buildings, Assembly Factories and Schools located in rural or residential areas. | 40 | 30 | 30 |
| Industrial – Steel Mills, Power Generating Stations, Oil Fields, Oil Refineries, Ore Mines, Chemical Plants, Paper Mills or other unusual environmental exposure. | No Warranty | Site Review Required | No Warranty |
| Severe Marine – Less than 1 mile from coastline. | No Warranty | No Warranty | No Warranty |

Notification Prior to Installation: Purchaser must notify Bridger Steel of installations that are deemed potential Industrial and/or Severe Marine environment prior to design implementation. Bridger Steel can then evaluate the installation site and provide specific warranty coverage before installation.

PRODUCT WARRANTY REQUEST

If you want to request a warranty for eligible panels, please fill out our on-line form by accessing the link below. One of our staff members will contact you to start the process. We have some of the best warranties in the business to make sure your home, ranch, or business is protected for years to come.

Scan the QR Code to go to our Product Warranty Request Page or visit: <https://info.bridgersteel.com/resources/metal-warranty>



For immediate assistance, please contact a Product Specialist at one of our convenient locations by calling 1.833.STEEL.US

DISCLAIMER

The information in this document was in effect at the time of its creation. Bridger Steel continually strives to update and improve products while reserving the right to change specifications or discontinue products at any time without obligation to our customers. Please visit our website at www.bridgersteel.com for the latest information regarding all of our products. Installation details are for illustration purposes only and may not be appropriate for all environmental conditions, building designs or panel profiles.

It is the installers responsibility to be sure the project is designed to conform to applicable building codes, regulations and accepted industry practices. Plans and plan drawings will take precedence over any conflicts with this manual.