

Clip-Lock[™] Installation Guide





Flashing and Details Guide

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Clip-LockTM STANDING SEAM



FLAT PAN

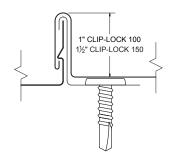


ACCENT RIBS 2 Ribs available



STRIATIONS

SEAM DETAIL



KEY FEATURES

- Standard widths for Clip-Lock 100 are 13" or 17" Standard width for Clip-Lock 150 is 15.5" (*Please inquire for other coverage options*)
- 24 and 22 gauge steel and .032" and .040" Aluminum
- · Factory notched & tabbed panels available
- Clip system: allows for expansion/contraction of panels in longer lengths
- Clip-Lock 100 1" rib height
- Clip-Lock 150 1-1/2" rib height
- Concealed fastener system
- 3:12 minimum pitch recommended (For lower pitches, please inquire)
- Standard panel lengths 3' to 50' (For longer panels, please inquire)
- Panel options: Striations, Accent Ribs, and Flat Pan
- Manufactured in Sacramento and Riverside, CA

The Clip-Lock[™] Standing Seam delivers a panel with strong clean continuous grace, together with unequaled quality. This provides you a weather tight roof to last a lifetime. Clip system allows for extremely long panels, without the need for laps.

TESTING

- Code compliance UL Evaluation Report UL ER #25913-01
- UL Construction No. 589
- UL 580 Class 90 Wind Uplift
- UL 790 Class A (ASTM E108) Fire rated
- UL 2218 Class 4 Impact (hail) rated
- ASTM A653/A924 G90 Galvanized
- ASTM A792 Zincalume/Galvalume AZ-50/55
- ASTM B209 Aluminum Substrate



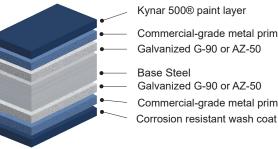


MATERIAL SPECIFICATIONS

- 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 Zincalume[®] Plus AZ-55 (No finish warranty – 25 yr. perforation warranty)
- G-90 Galvanized or AZ-50
- .032" & .040" Kynar 500® Painted Aluminum (please inquire)
- 24 Tru-Gauge[™] Bonderized
- 22 gauge Rusteel Plus[™] (A606)
- 16 OZ & 20 OZ Real Copper
- Kynar 500® and substrate testing data available (See website)

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



Commercial-grade metal primer

Galvanized G-90 or AZ-50

Galvanized G-90 or AZ-50 Commercial-grade metal primer



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





ETAL PRO

Mounted on the rear of our semitrailer, the truck-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 & Will Call/Loading

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 alternate 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
- Check the shipment at the time of delivery.
- Verify material quantities against the shipping/packing list.
- Note any damage or discrepancies upon the paper work at the time of delivery and notify 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.



Flashing and Details Guide

Clip-Lock



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. **Clip-Lock** can be used over spaced purlins. For solid substrate, **Taylor Metal Products** recommends 5/8" plywood or metal decking.

Underlayment

For roofs with pitches below 3:12, High Temp Ice and Water shield underlayment must be installed across the entire surface (projects with manufacturer's weathertightness warranties require the TMP private label product). For pitches steeper than (or equal to) 3:12, High Temp Ice and Water is necessary at all perimeter locations, eave, ridge, valley, hips, sidewall, endwall, prow and penetrations. The remaining of the roof's field areas can then be covered with approved synthetic felt. If local codes or specifications require a Class A fire rated assembly, Polystick XFR or Titanium FR (both products are distributed by TMP) must be installed over the entire roof with combustible decks.

Follow manufactures instructions carefully for all underlayment installation.

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 **Clip-Lock** 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.

Clip-Lock

Flashing and Details Guide



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.

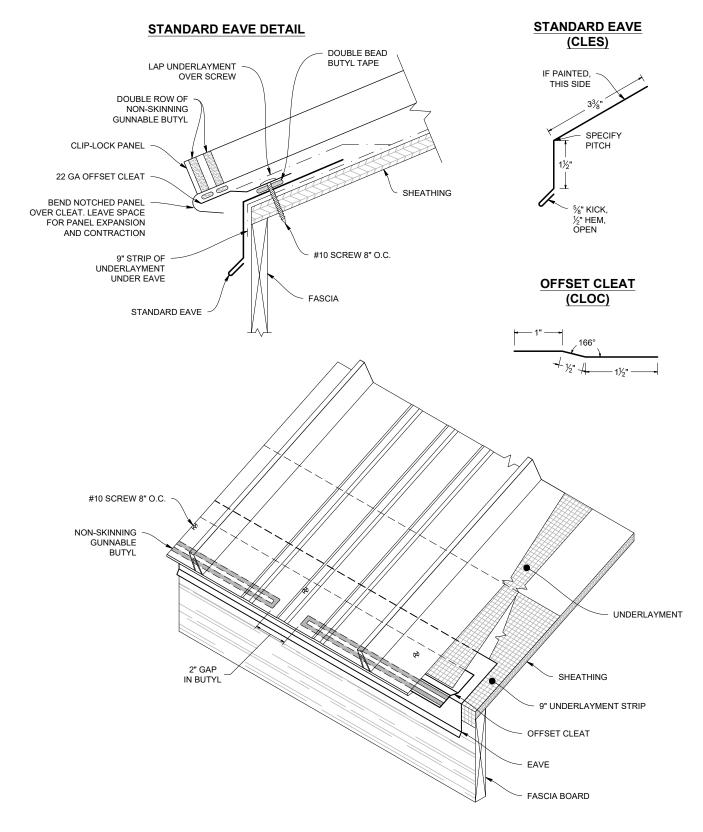
Metal roofs that are wet or dusty can be extremely slippery. Wear soft soled shoes and a safety harness to minimize risk of falling.

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.

Standard Eave

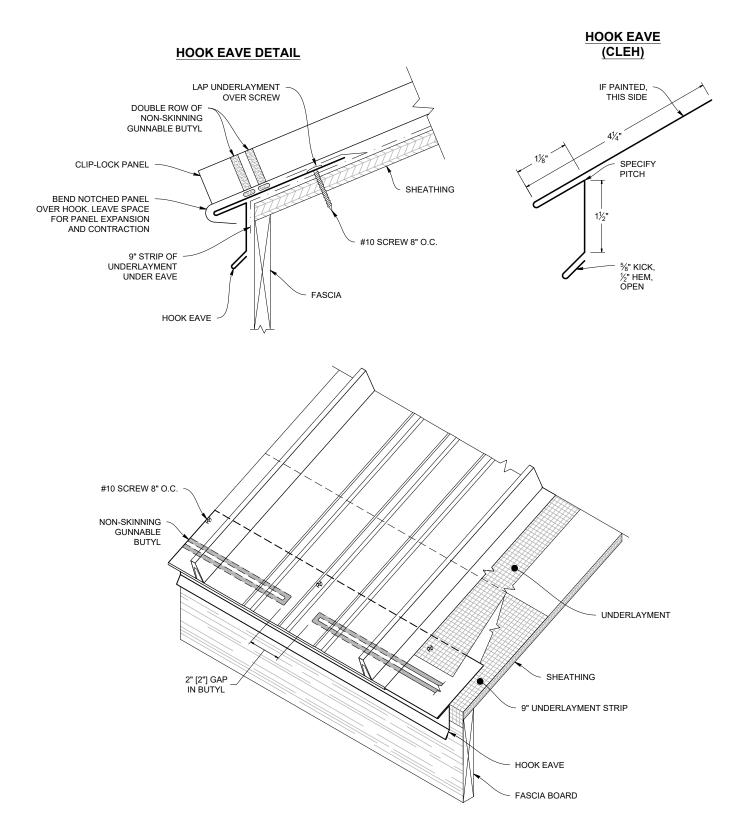


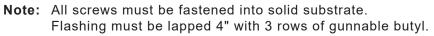


Note: All screws must be fastened into solid substrate. Flashing must be lapped 4" with 3 rows of gunnable butyl.

Hook Eave

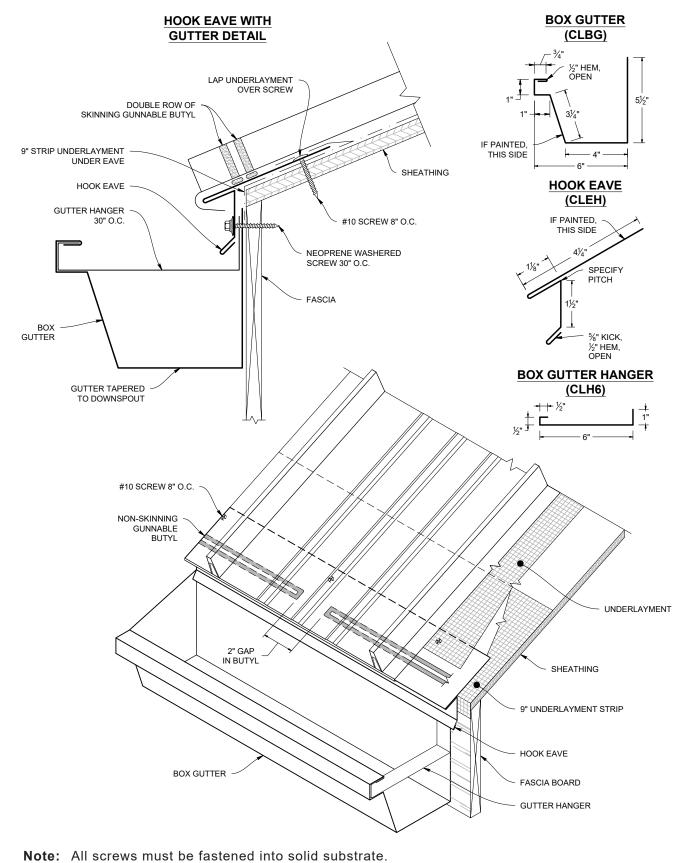






Gutter / Hook Eave





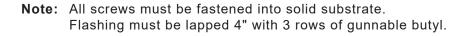
Flashing must be lapped 4" with 3 rows of gunnable butyl.

Standard Ridge



STANDARD RIDGE SEE PAGE 16 FOR END DAM ASSEMBLY NEOPRENE WASHERED LAP TEK SCREW OR SCREW END DAM TO SEAM RIVET 12" O.C. INTO EACH END DAM (AVOID STANDING SEAMS) CLIP-LOCK PANEL Ð 4 M DOUBLE BEAD BUTYL TAPE NEOPRENE WASHERED DRAG LOAD 1" FROM SIDE OF SHEATHING RIB AND 4" O.C. MIN, DRAG LOAD **ICE & WATER SHIELD** CALCULATIONS MAY REQUIRE MORE FASTENER SIZE DETERMINE BY CALCULATION STANDARD RIDGE (CLRS) IF PAINTED, THIS SIDE 1" HEM, SPECIFY PITCH OPEN STANDARD RIDGE LAP 1" BUTYL SPACING LAP

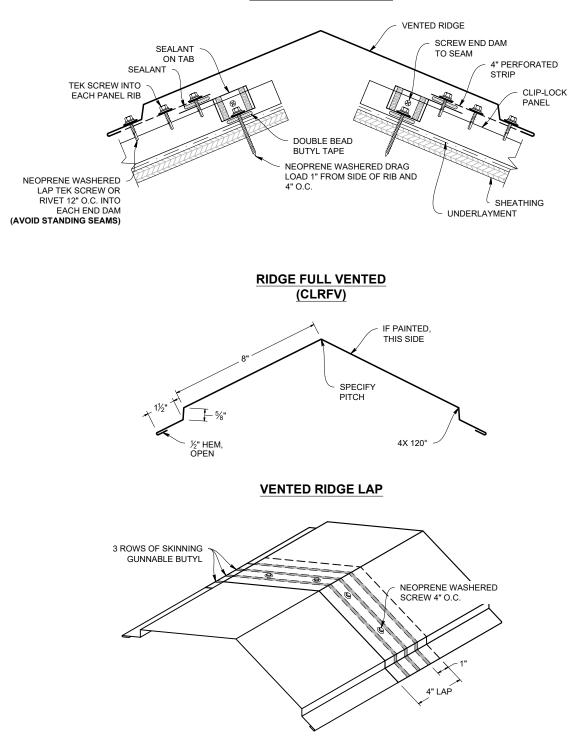
STANDARD RIDGE DETAIL





Vented Ridge

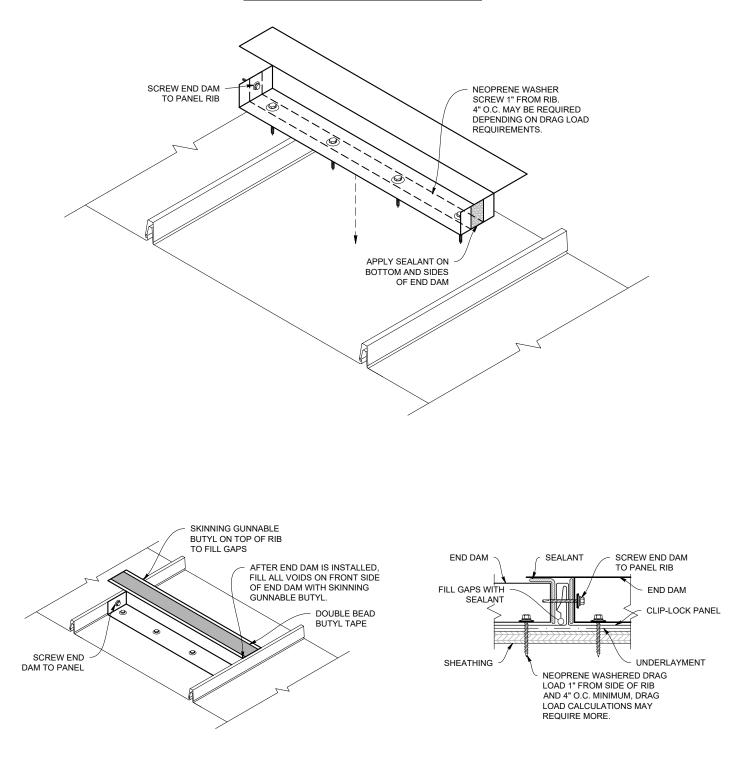
VENTED RIDGE DETAIL



End Dam

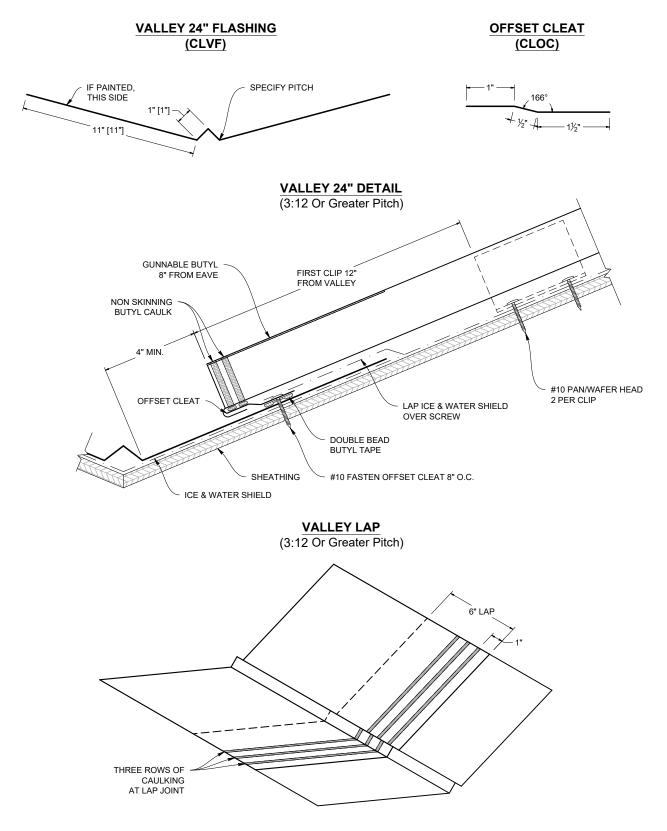


END DAM ATTACHMENT APPLICATION



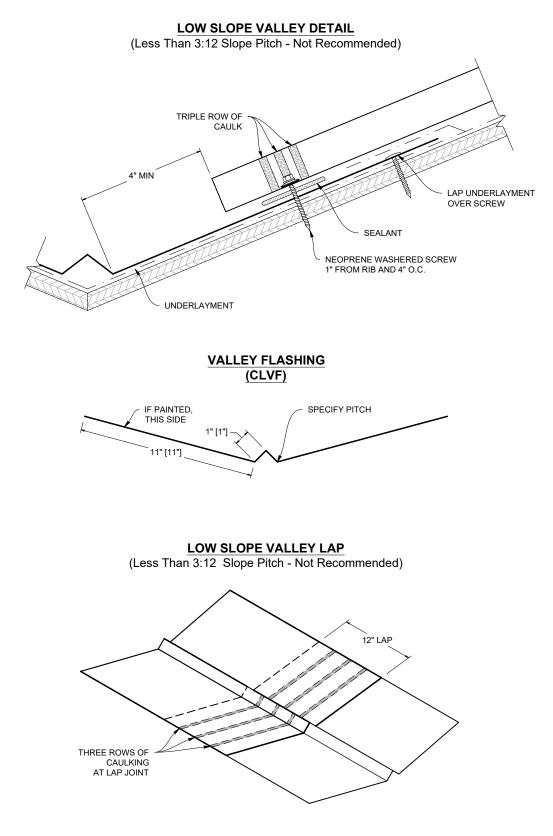


Valley Flashing Slope 3:12 or Greater



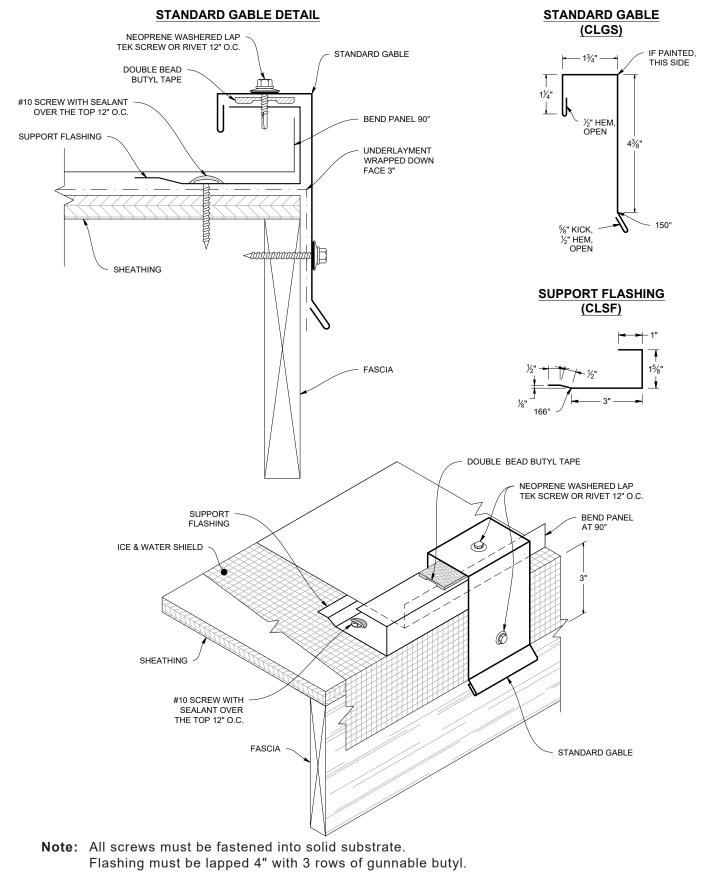
Valley Flashing - Low Slope Slope Less than 3:12





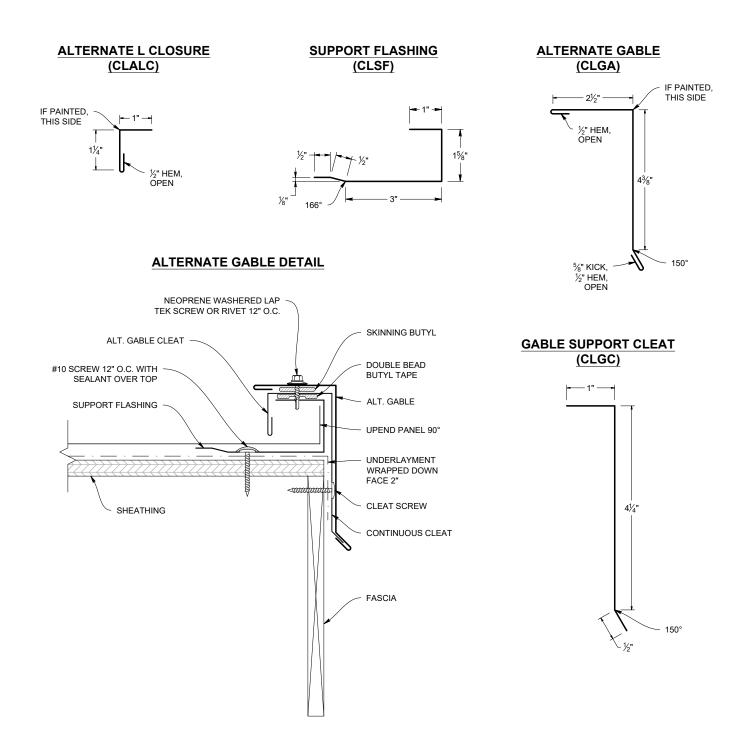
Standard Gable





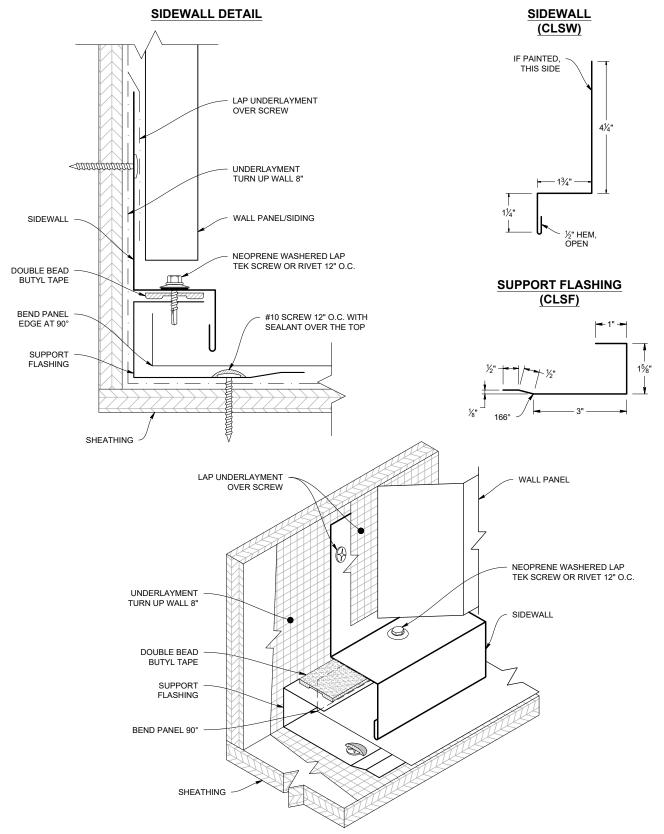








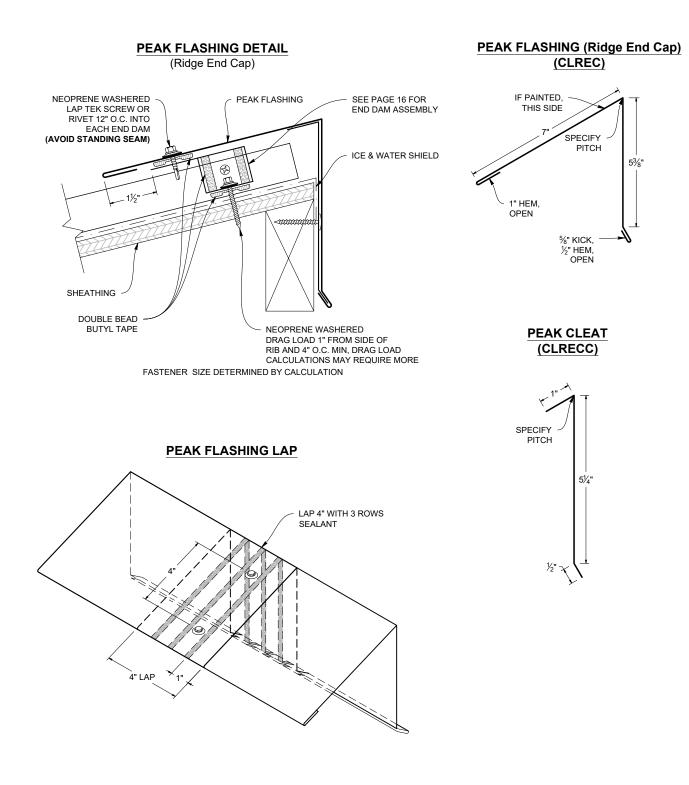
Sidewall

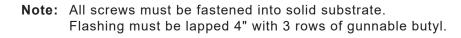


Note: All screws must be fastened into solid substrate. Flashing must be lapped 4" with 3 rows of gunnable butyl.



Peak Flashing (Ridge End Cap)

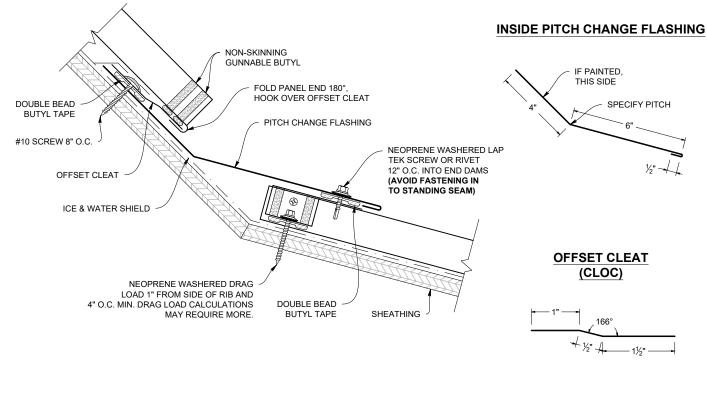




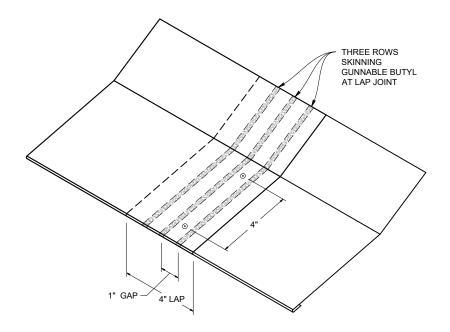




PITCH CHANGE DETAIL

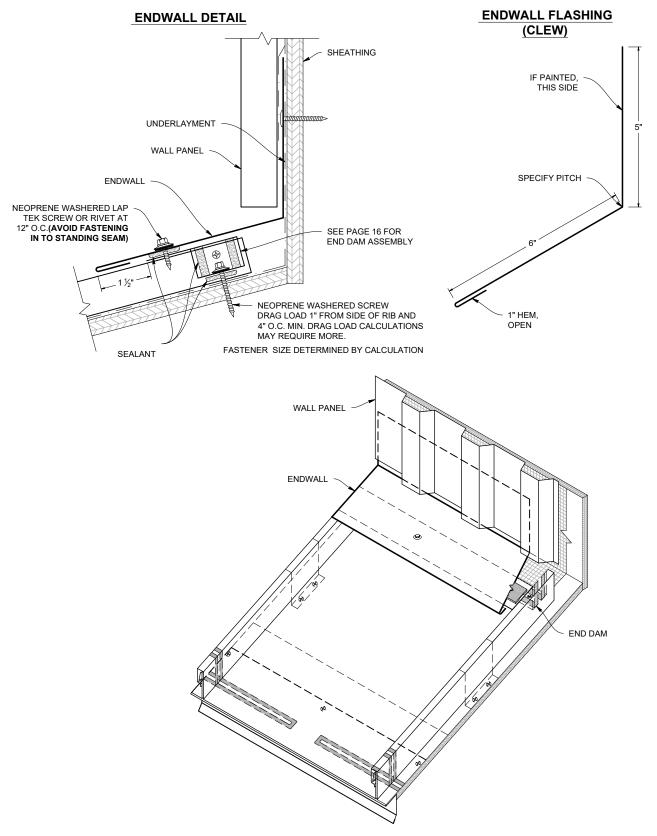


PITCH CHANGE LAP



Endwall

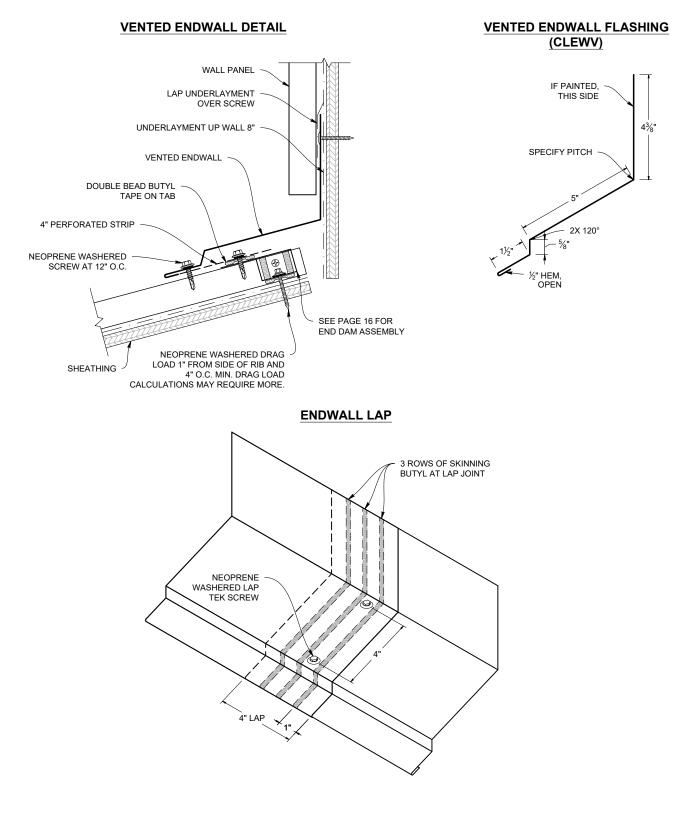




Note: All screws must be fastened into solid substrate. Flashing must be lapped 4" with 3 rows of gunnable butyl.

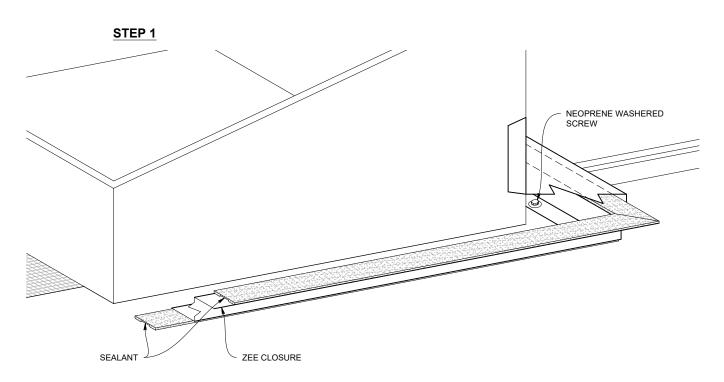
Vented End Wall

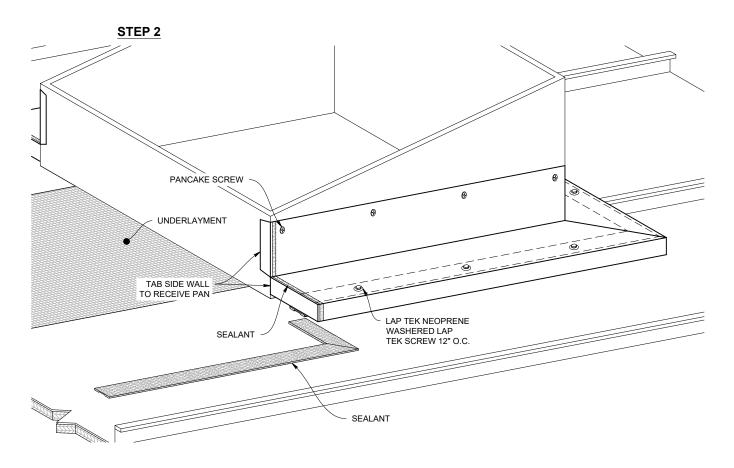




Curb Back Pan / Cricket

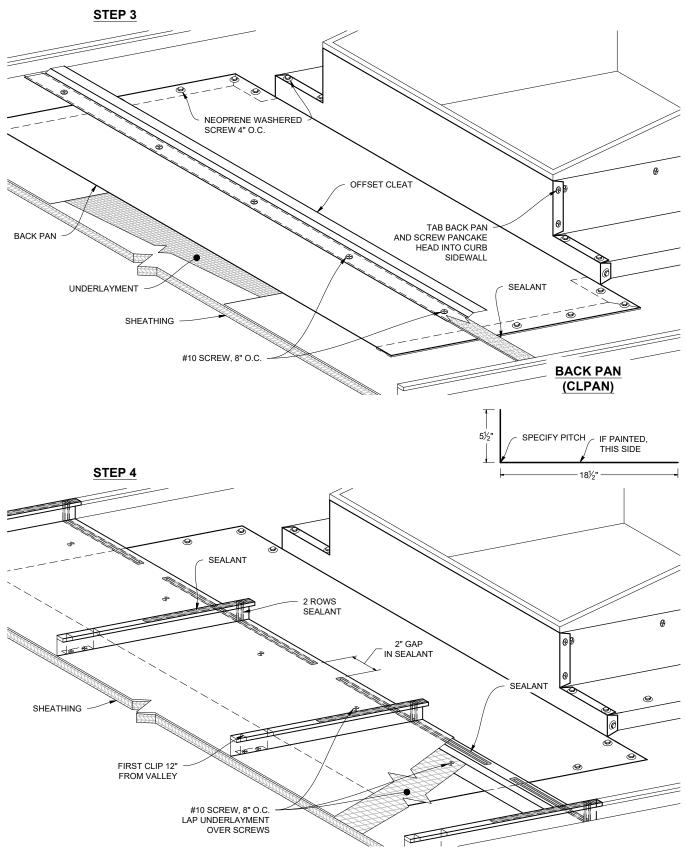






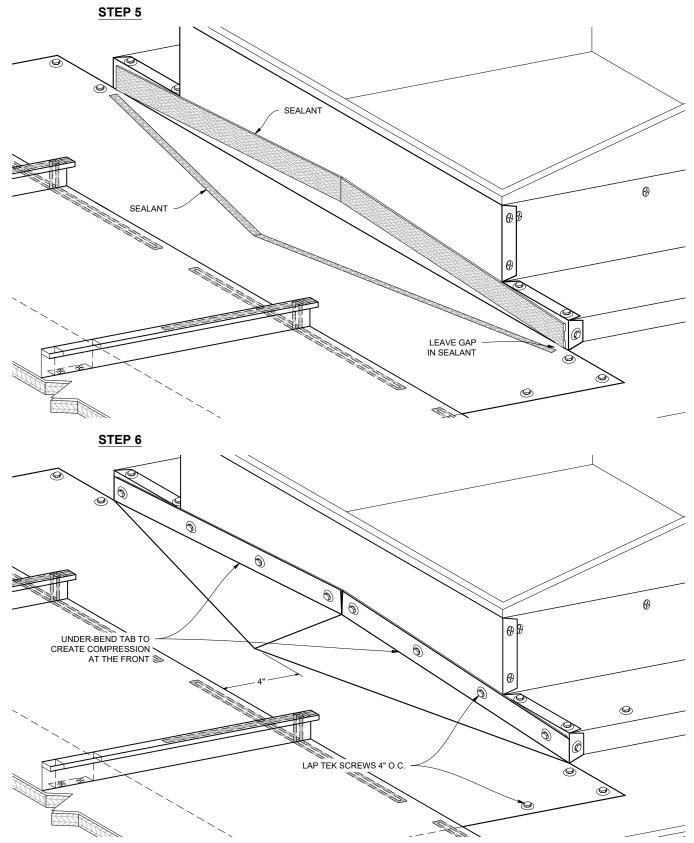


Curb Back Pan / Cricket



Curb Back Pan / Cricket

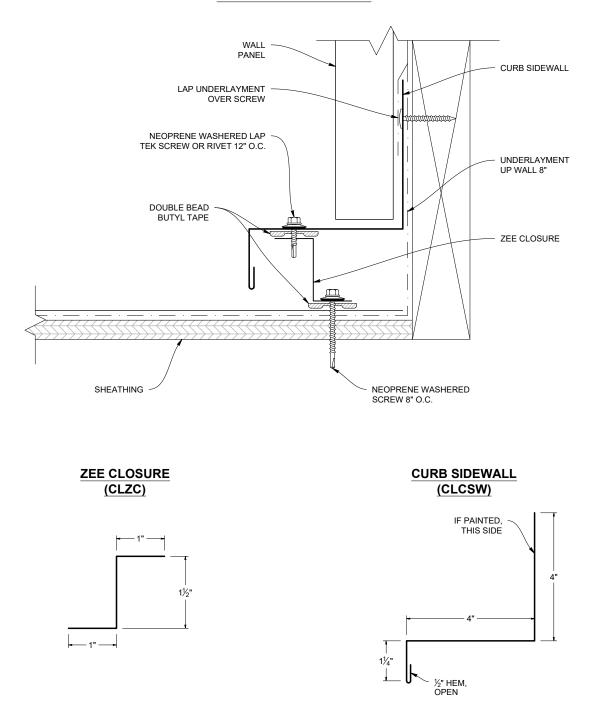








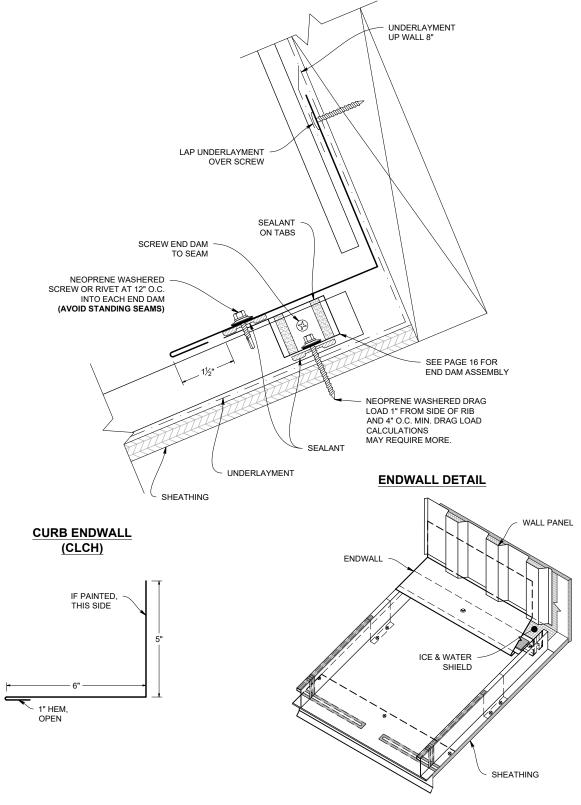
CURB SIDEWALL DETAIL



Curb End Wall

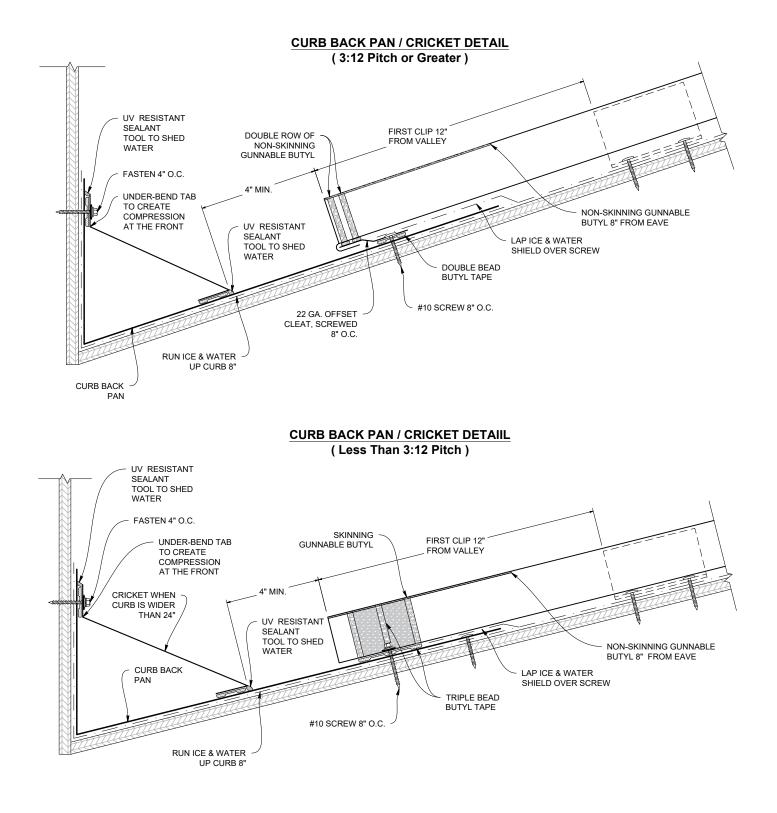


CURB ENDWALL DETAIL



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

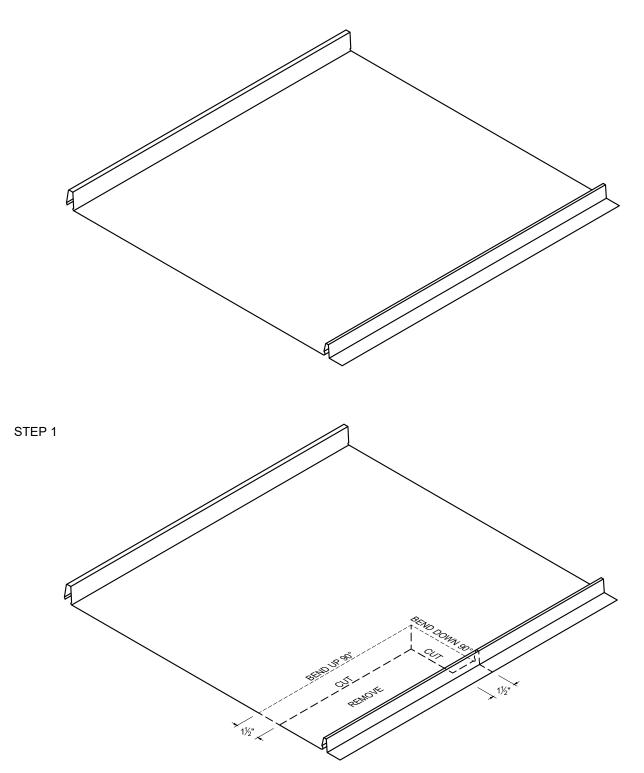


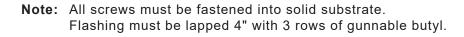


Eave to Gable Transition



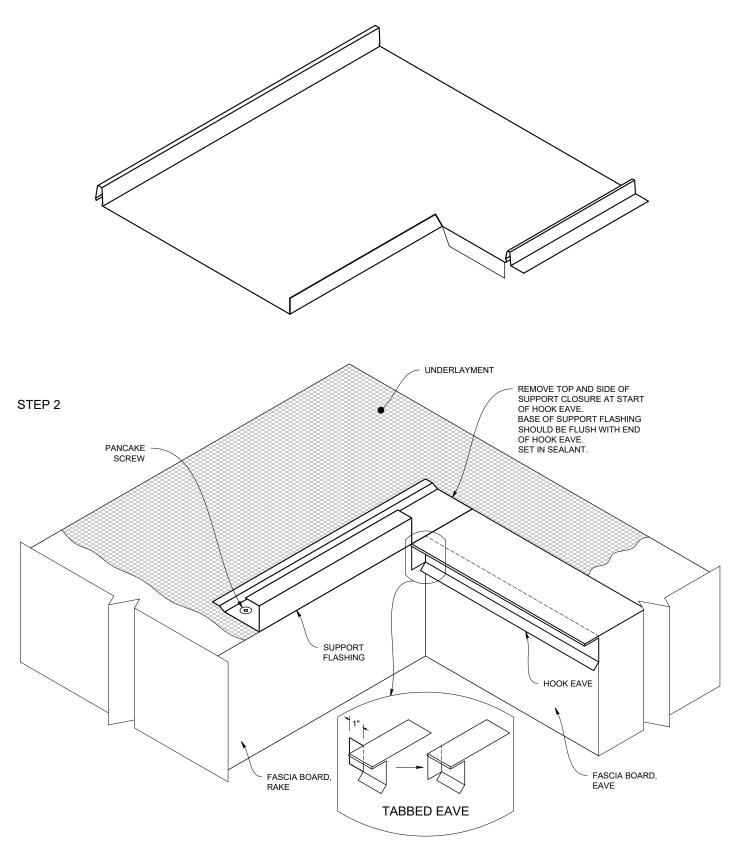
EAVE TO GABLE TRANSITION APPLICATION





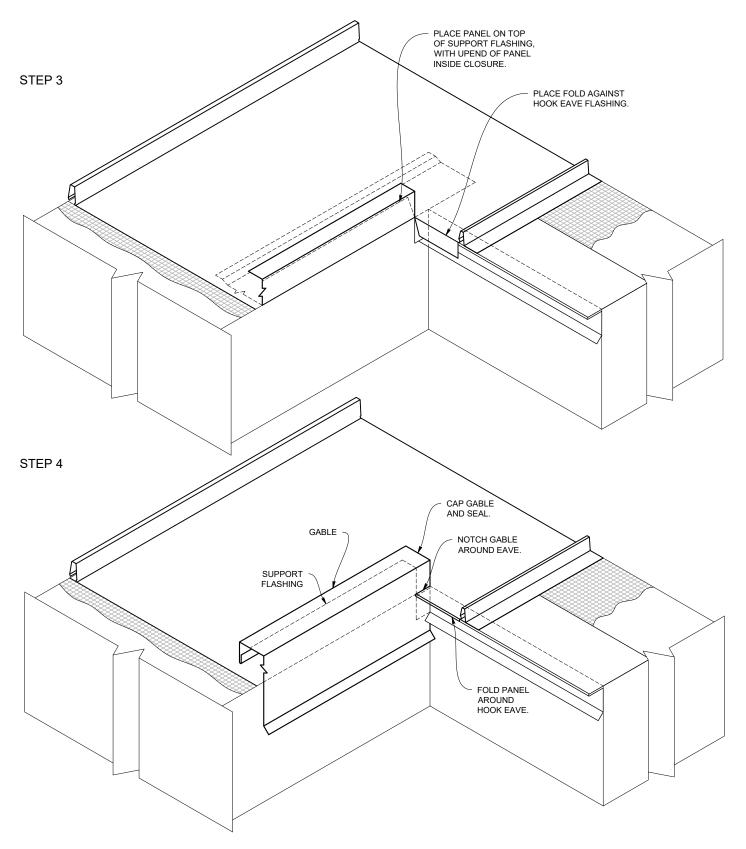


Eave to Gable Transition



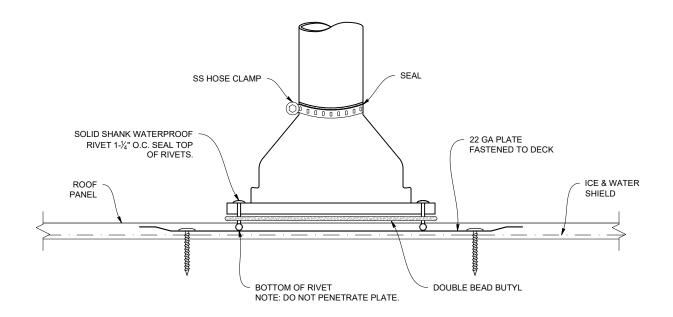
Eave to Gable Transition

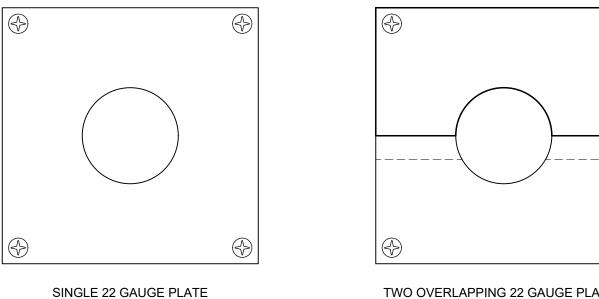






FOR PIPES LOCATED GREATER THAN 20' FROM PIN POINT

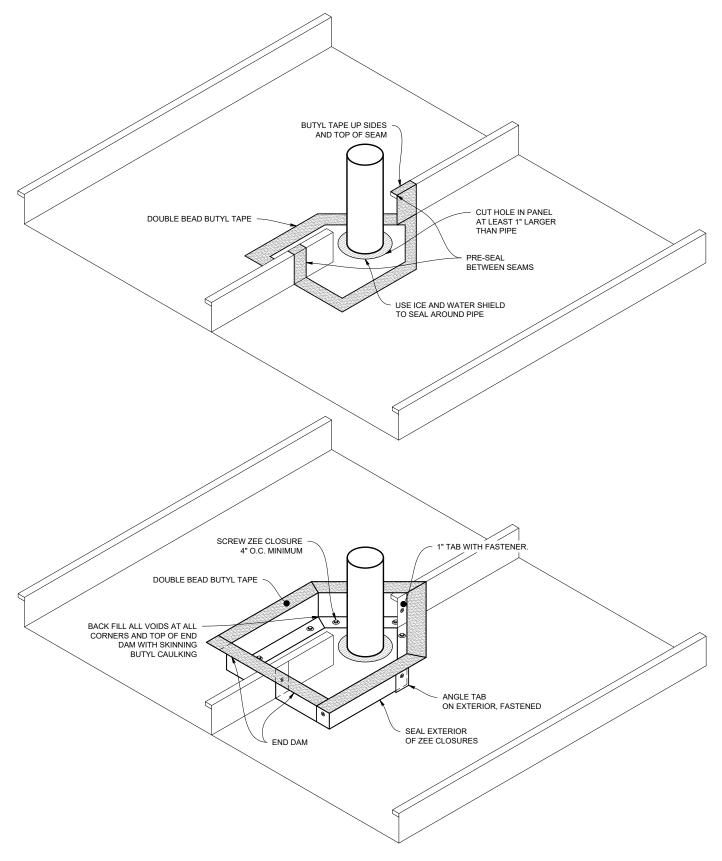




TWO OVERLAPPING 22 GAUGE PLATES

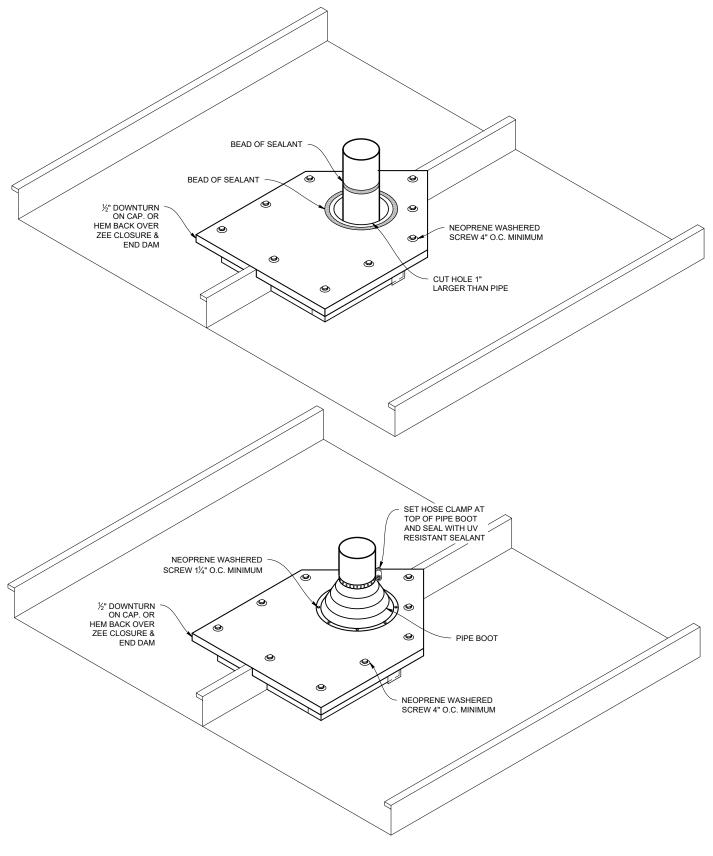
Pipe Penetration - on Rib





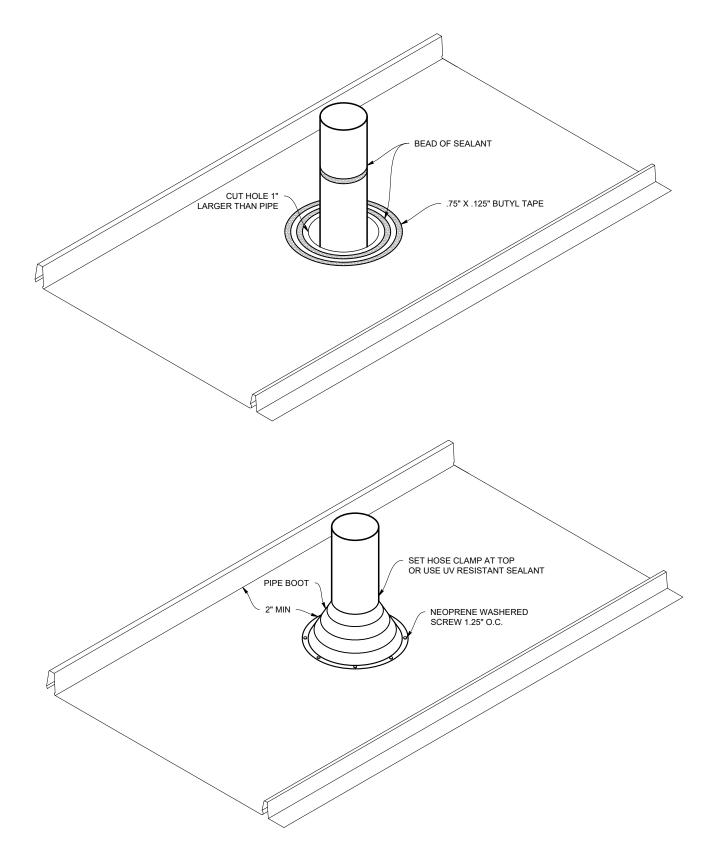


Pipe Penetration - on Rib

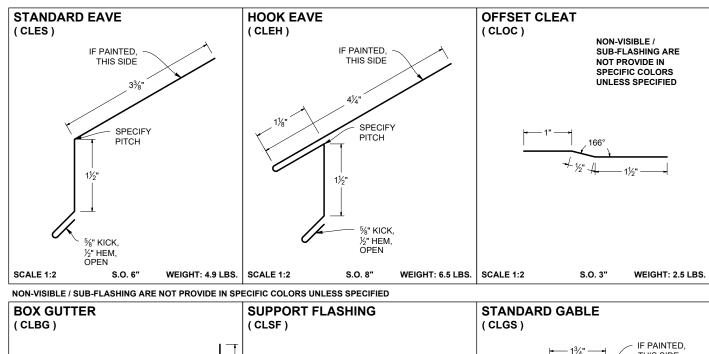


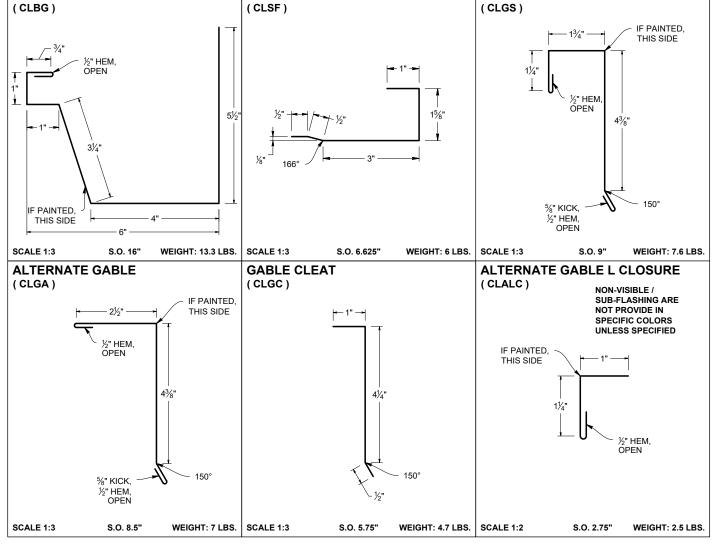
Pipe Penetration - on Pan



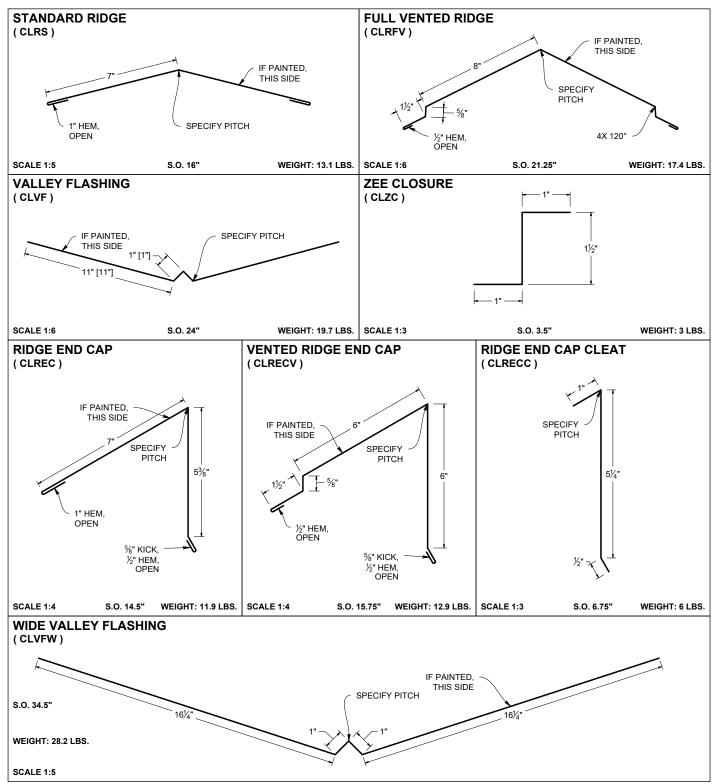


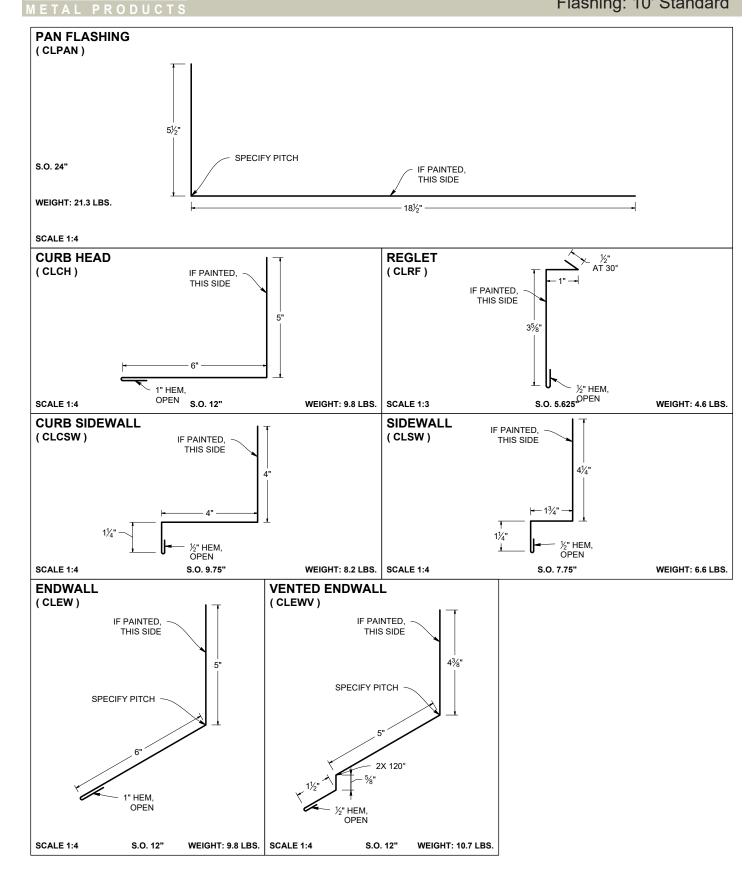












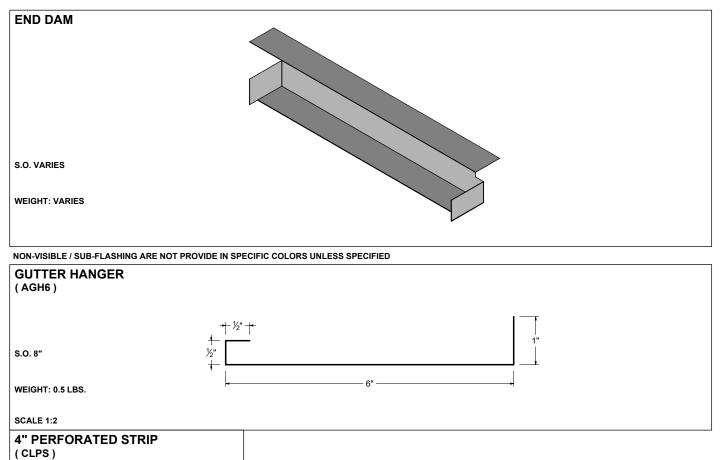
TAYLOR

— 4" [4"] —

S.O. 4"

WEIGHT: 3.3 LBS.





SCALE 1:3



Custom Trim Order

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Please provide a drawing for each flashing with precise measurements and angles Fax to: 503-581-6877

•

Phone: 503-581-8338 or 1-800-574-1388

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Marion [•]	"R" Pane		cealer? $\underline{Y} / \underline{N}$ (Standard fo			1	6" MS-200*		natch: llet: 10' 20' 30'						
Max Co			2" Easy-Lock*		1 e** (circle): <u>1</u> ", o		8" MS-200*								
	o rrugate 7/8" Corrug	pated 10 Panels with Striatio	5" Easy-Lock* 5" StreamLine* 1 ** need Pattern ns Hat 1 V (Available on Lifetime So]1"x12" Sm]1"x12" Life Choice: ⁄-Groove [3" Reveal: oothWall** etime Soffit		2" MS-150* 6" MS-150* 0" MS-150* 3" MS-100* 7" MS-100* ther Panel:	12" Versa 14 " Versa 16" Versa 18 " Versa 18 " Versa 14 5/8 " T-	a-Span* -Span* a-Span*						
Panel & Flashing	*All Kynar S	lim-Lock, Easy-Lo	ock, Lifetime Soffit, Smo -3, Tuff Rib, GR7, PBR,	othWall, Shado				S-200 flashings a	are 10'						
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SALEM BRANCH 4566 Ridge Dr. NE Salem, OR 97301

Office: 503-581-8338 Toll Free: 1-800-574-1388 Fax: 503-581-6877 SACRAMENTO BRANCH 5711 Perrin Ave McClellan, CA 95652

Office: 916-318-8844 Toll Free: 1-800-574-1388 Fax: 916-993-4123 SPOKANE BRANCH

1010 N Nelson St., Spokane, WA 99202 www.go-rsp.com

Office: 509-535-8667 Toll Free: 800-238-4057 Fax: 509-535-8682

AUBURN BRANCH 2601 C St SW, Auburn, WA 98001

Office: 206-900-9923 Toll Free: 1-800-574-1388 Fax: 253-804-3545 RIVERSIDE BRANCH 4880 Felspar St. Riverside, CA 92509

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