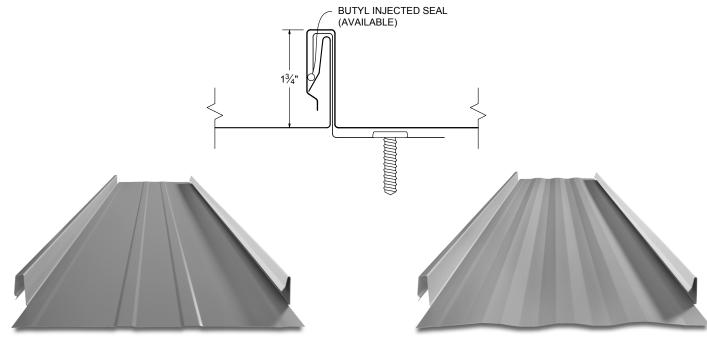


Versa-Span[™] Installation Guide





Flashing and Details Guide



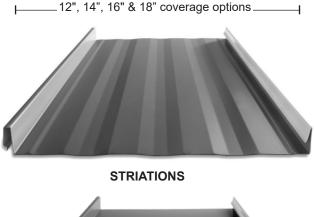
Table of Contents

Panel Specifications	2-3
Taylor Delivery Fleet	4
Delivery, Will Call & Loading	5
Notes To Designer/Installer	6-8
Standard Eave	9
Hook Eave	10
Gutter / Hook Eave	11
Standard Ridge	
Ridge Full Vented	13
End Dam Attachment	14
Valley	15
Valley – Low Slope	16
Standard Gable	17
Alternate Gable	18
Sidewall	
Peak Flashing (R.E.C.)	
Vented Peak Flashing (R.E.C.)	21
Pitch Change	22
Endwall	23
Vented Endwall	
Saw Cut Endwall	25
Curb Back Pan	26-28
Curb Sidewall	
Curb Endwall	
Curb/Pan Cricket	31
Eave to Gable Transition	32-34
Pipe Penetration – on Plate	35
Pipe Penetration – on Rib	36-37
Pipe Penetration – on Pan	
Flashing Selection	39-43





EVALUATION ICC-ES EVALUATION REPORT #5046 with CBC-CRC Supplement SERVICE®





FLAT PAN

KEY FEATURES

- 12", 14", 16" & 18" coverage options
- 24 and 22 Tru-Gauge™ and .032" and .040 Aluminum
- Floating clip system: allows for expansion and contraction of panels in longer lengths
- 1-3/4" vertical rib, factory notching available
- 2:12 minimum pitch 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
- Wide Batten incorporates nicely over Versa-Span™ standing seam panel *(separate clip required)*
- Weathertightness warranty available (Contact TMP representative for details)
- · Manufactured in Salem OR

TESTING

*wide batten options

• ES EXALIATION ICC-ESR #5046 with CBC-CRC Supplement

FLAT ACCENT RIBS 2 Accent ribs for 12" & 14" panels 3 Accent ribs for 16" & 18" panels

BUTYL INJECTED SEAL

(AVAILABLE)

- Code compliance UL Evaluation Report UL ER #25913-01
- UL Construction No. 254, 255, 261, 303, 342, 343, 414, 436, 445, 447, 448, 486, 508, 508A, 543, 544
- UL 580 Class 90 Wind Uplift
- UL 790 Class A (ASTM E108) Fire rated
- UL 2218 Class 4 Impact (hail) rated
- ASTM E1680 Air infiltration (roof)
- ASTM E1646 Water infiltration (roof)
- ASTM E1592 Structural uniform static air pressure
- ASTM E331 Water infiltration (wall)
- ASTM E283 Air infiltration (wall)
- · ASTM A653/A924 G90 Galvanized
- ASTM A792 Zincalume/Galvalume AZ-50/55
- ASTM B209 Aluminum Substrate

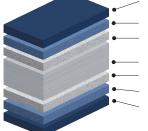
2

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
- .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
- 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 characterisitc of roof and wall products, and not a defect, which is not a cause for panel rejection



Kynar 500® paint layer

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

Base Steel Galvanized G-90 or AZ-50 Commercial-grade metal primer Corrosion resistant wash coat



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.





Mounted on the rear of a carrier vehicle, 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.



Versa-Span[™]

Flashing and Details Guide



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 ensure long-term durability and color match.

Substrates

Details in the manual are all shown over solid substrate. **Versa-Span**[™] can be used over spaced purlins. For solid substrate, **Taylor Metal Products** recommends 5/8" plywood or metal decking. Contact a TMP representative with questions about panel attachment to varying substrates.

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.

Versa-Span[™]



Flashing and Details Guide

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 **Versa-Span**[™] 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.

Versa-Span[™]

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.

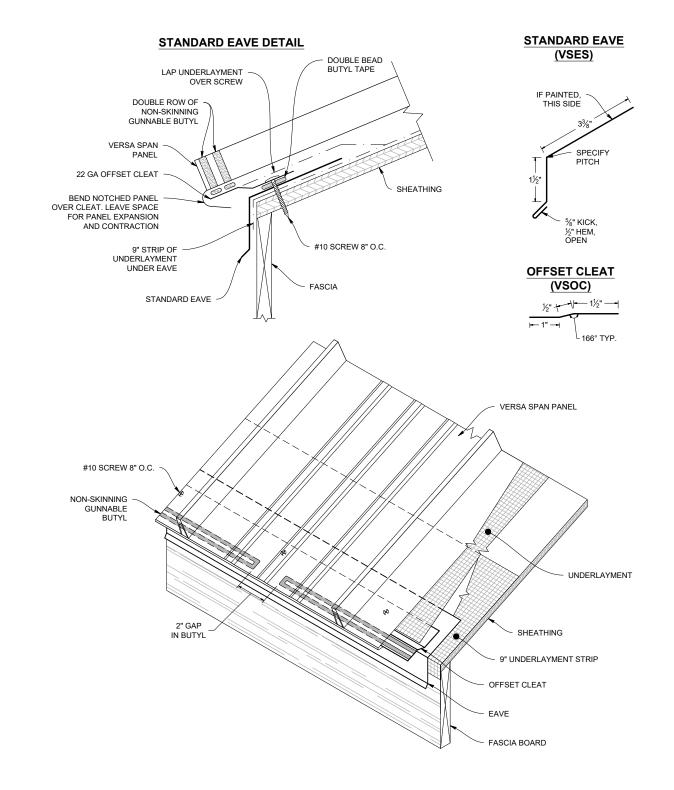
Metal roofs that are wet or dusty can be extremely slippery. Wear soft soled shoes and a safety harness to minimize risk of falling.

Avoid installing metal panels in windy conditions.

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

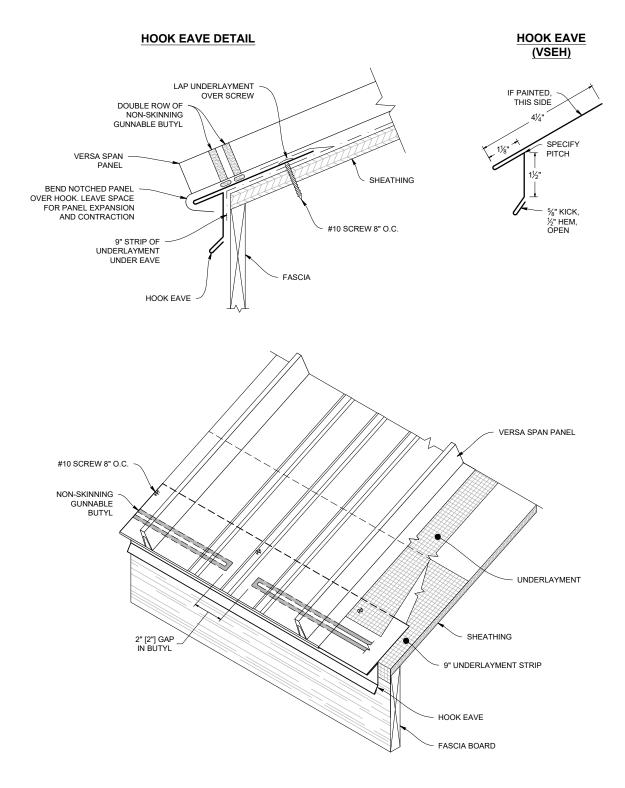
Standard Eave

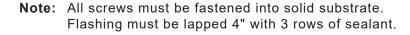






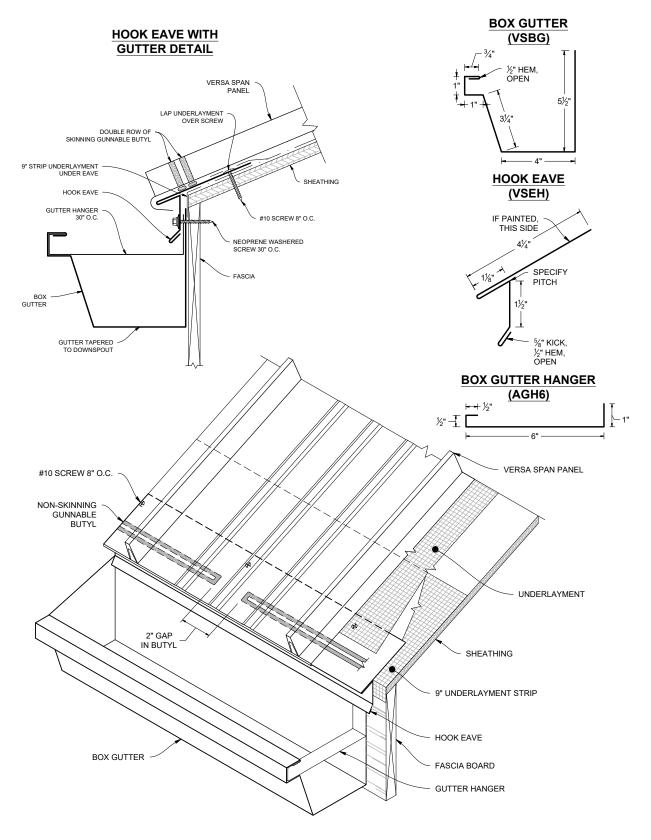
Hook Eave





Gutter / Hook Eave

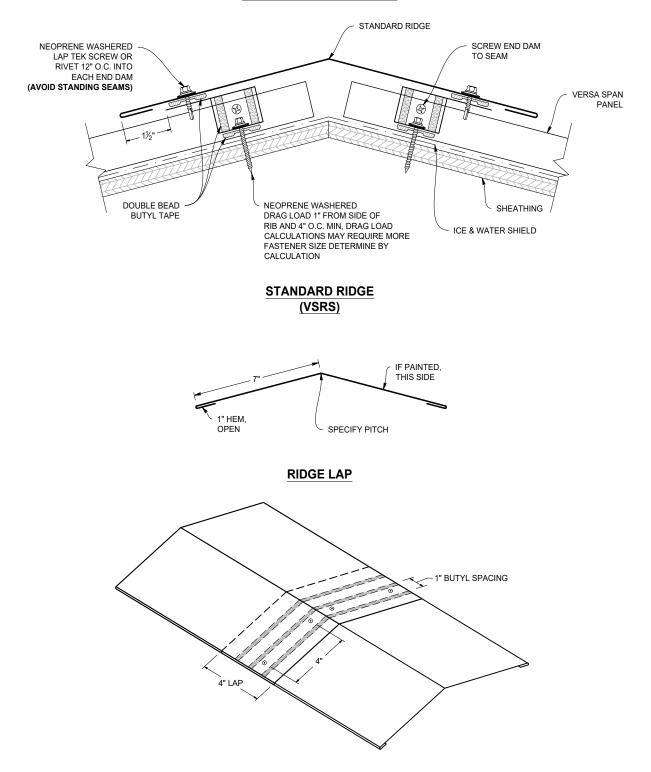


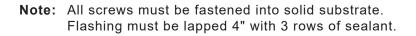


Standard Ridge



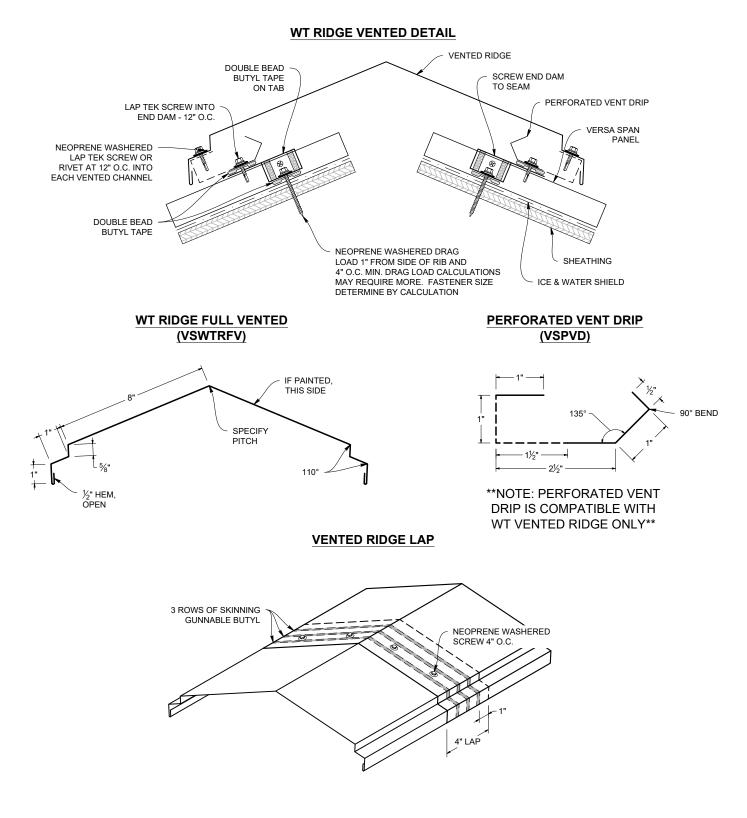
STANDARD RIDGE DETAIL





Vented Ridge

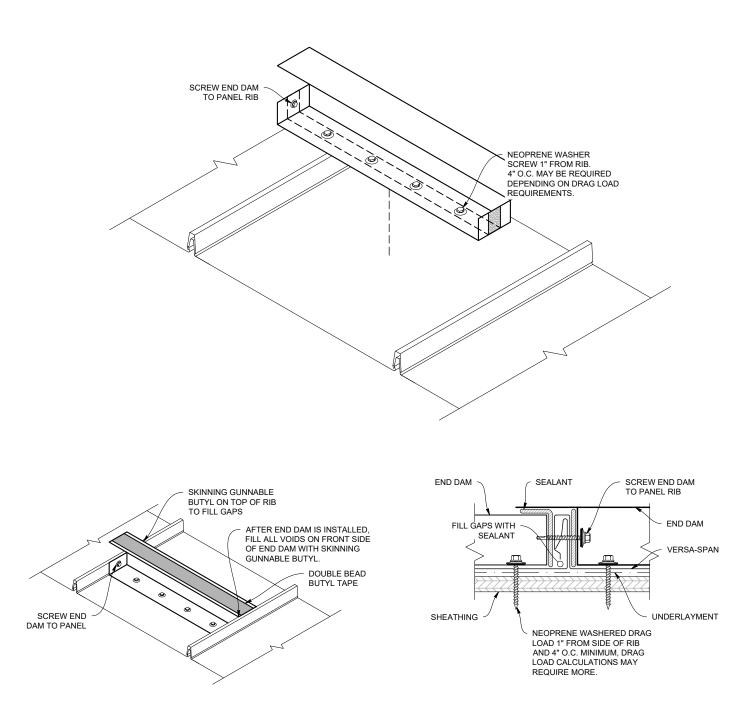




End Dam Attachment

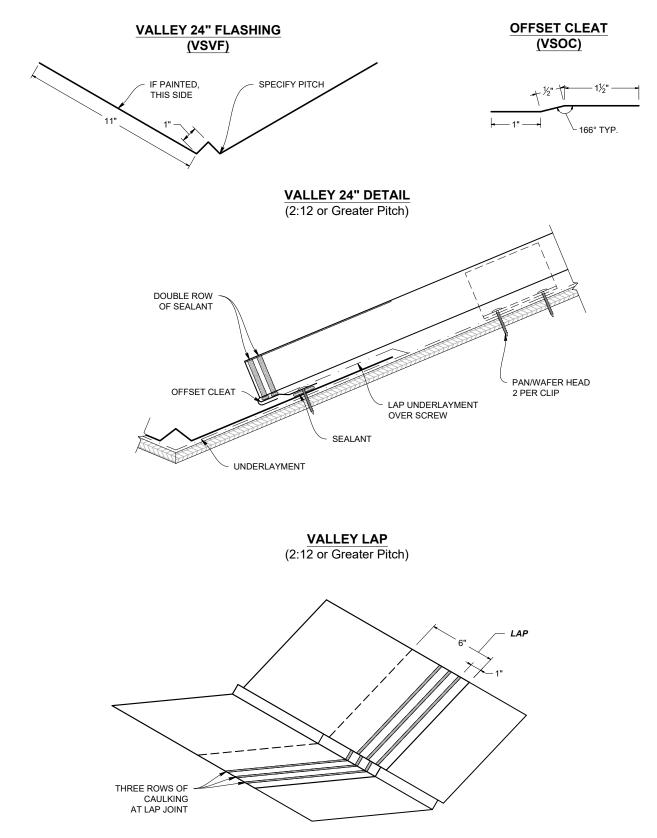


END DAM ATTACHMENT APPLICATION



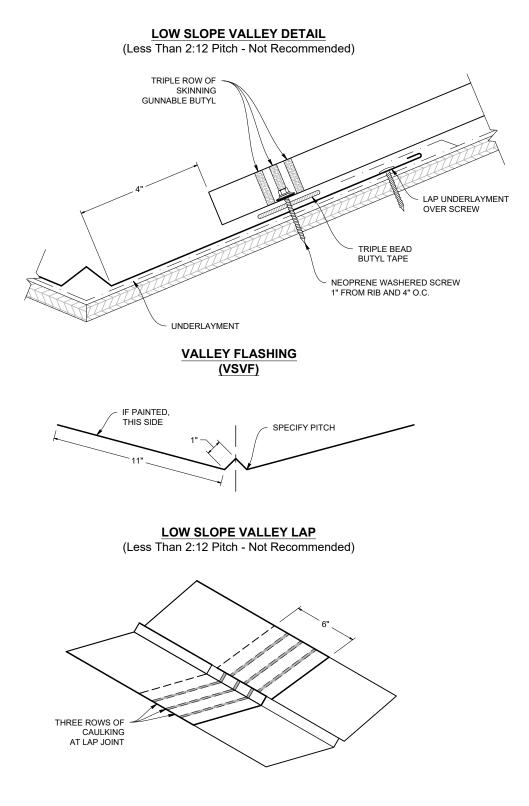


Valley Slope 2:12 or Greater



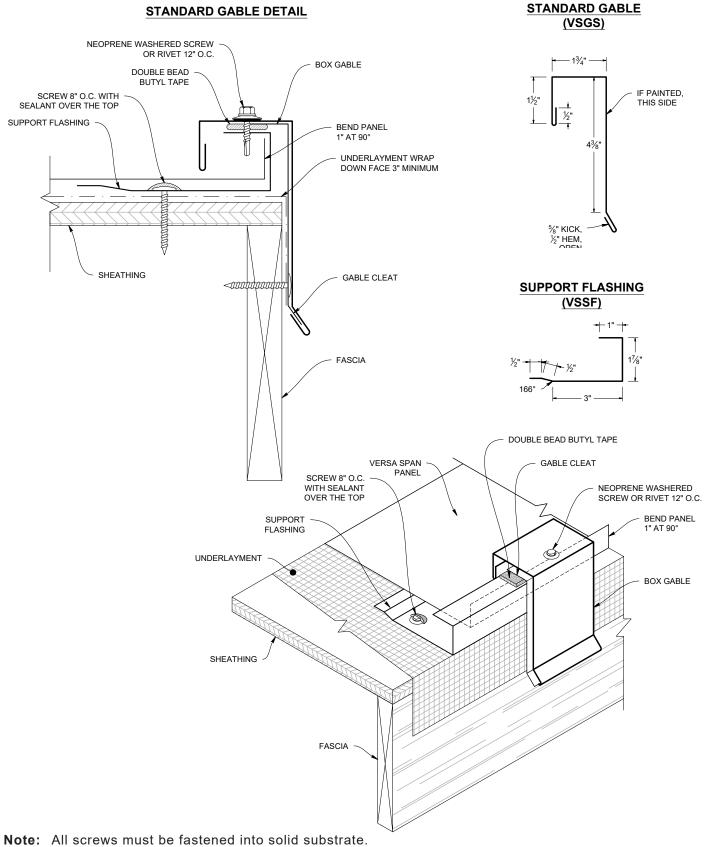
Valley - Low Slope Pitch Less than 2:12 (Not Recommended)





Standard Gable

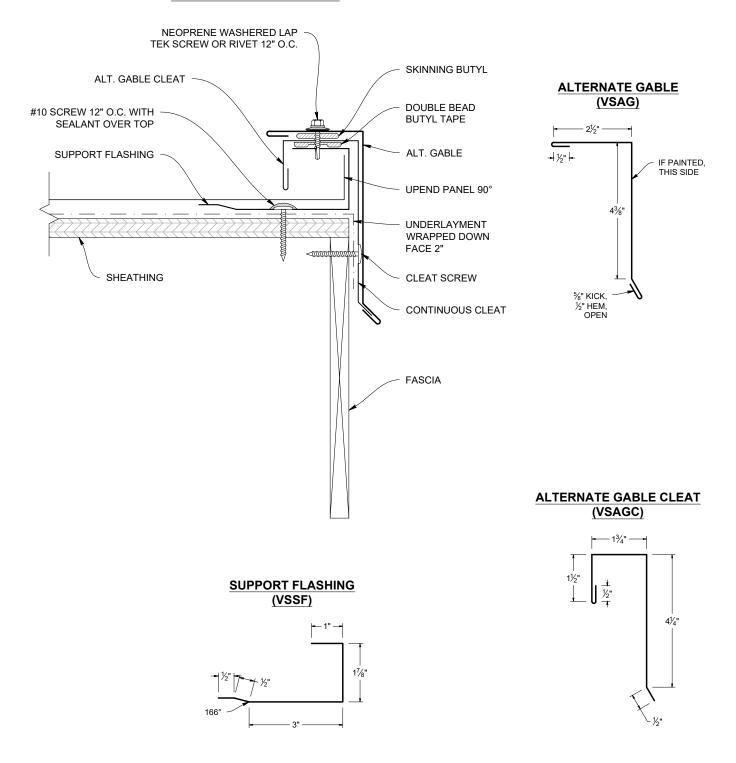




Alternate Gable

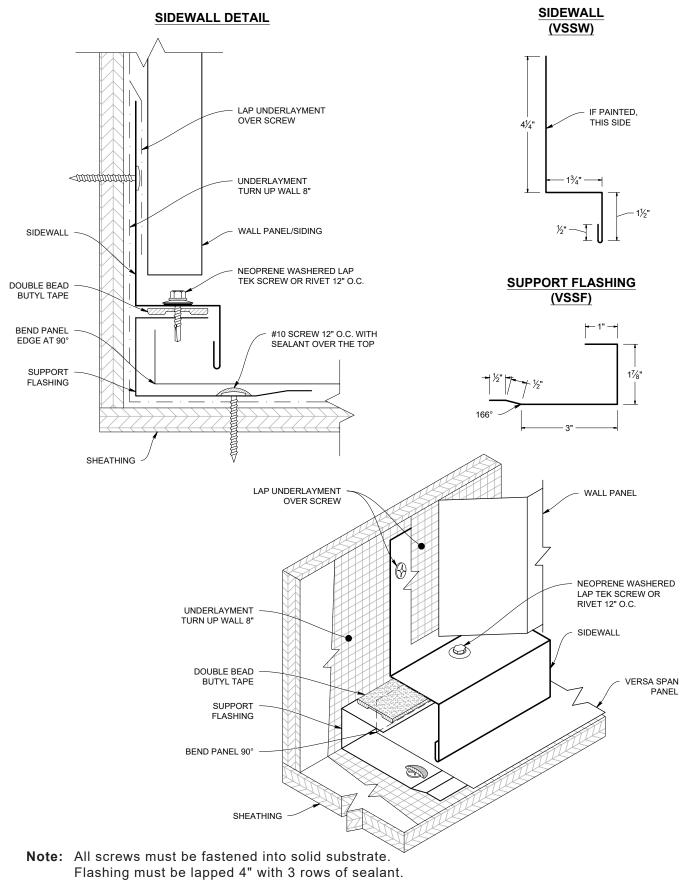


ALTERNATE GABLE DETAIL



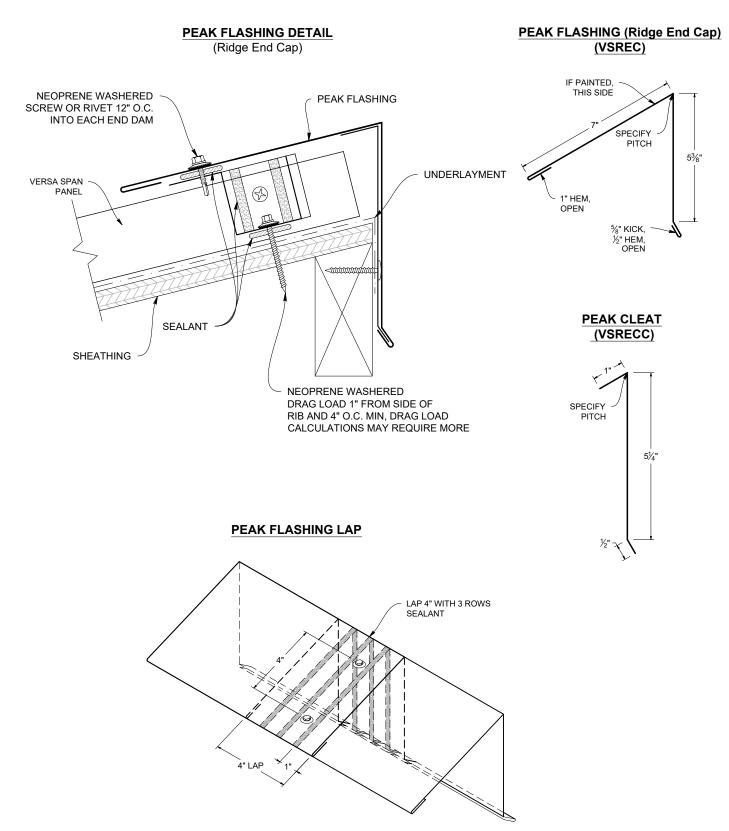


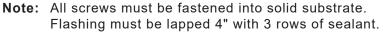
Sidewall



Peak Flashing (Ridge End Cap)

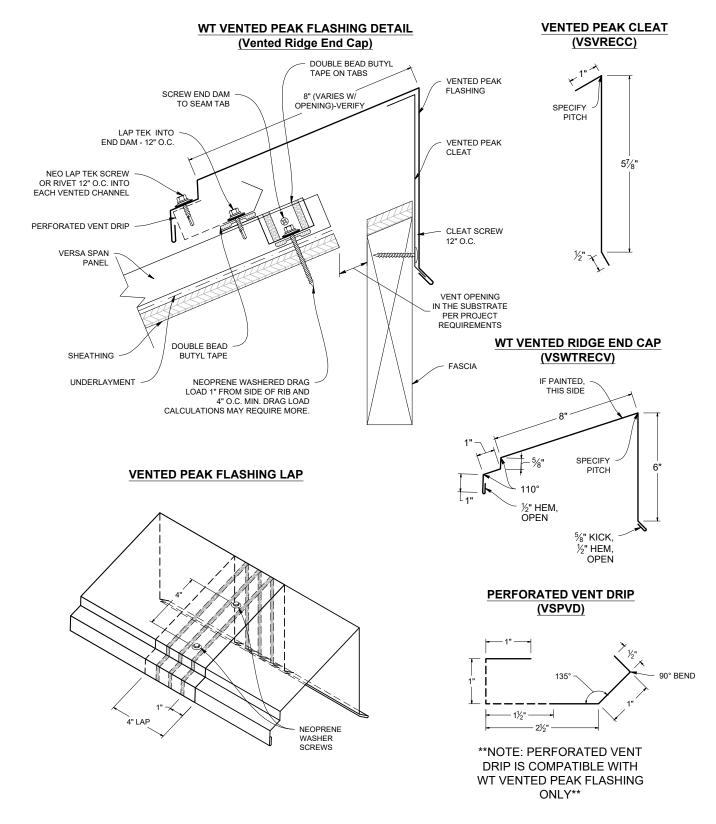
TAYLOR METAL PRODUCTS





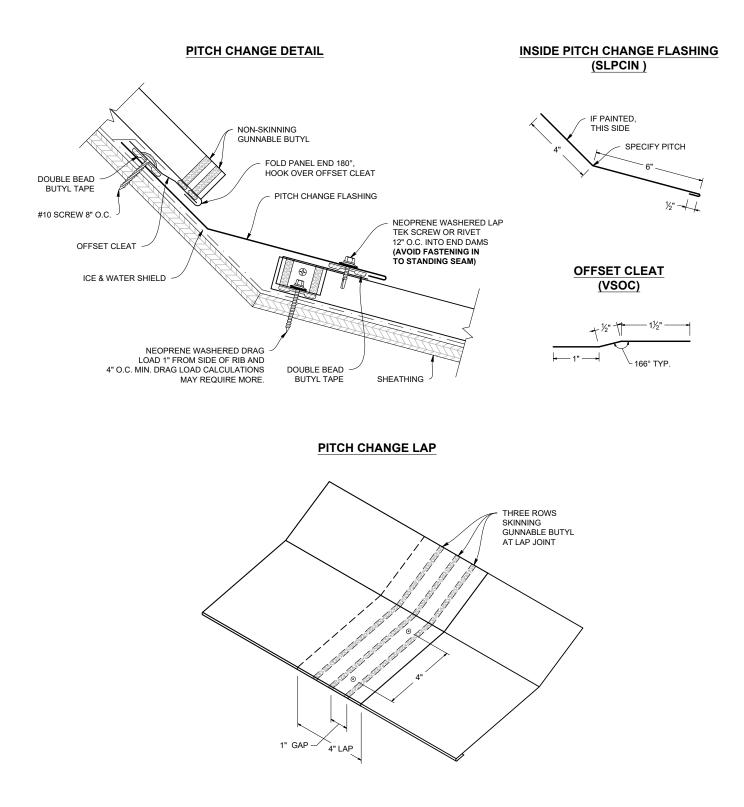






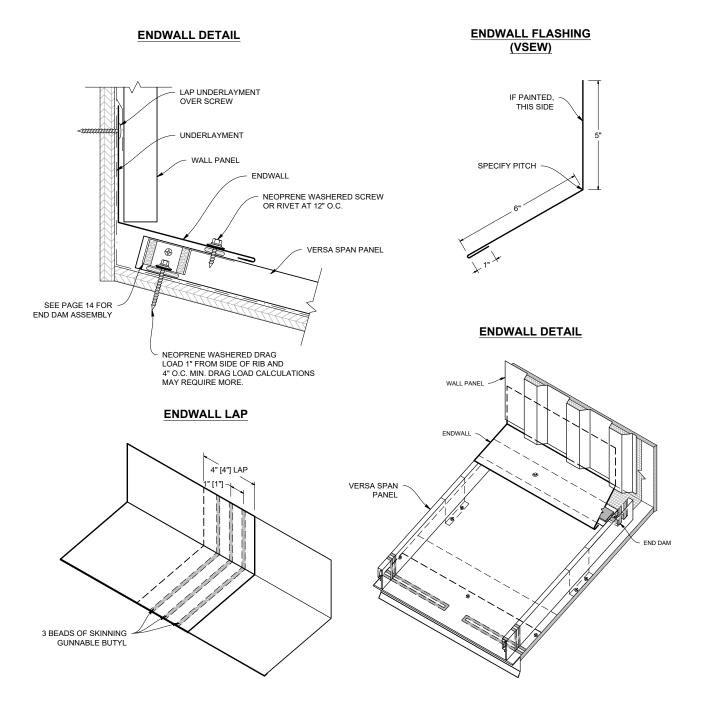
Pitch Change





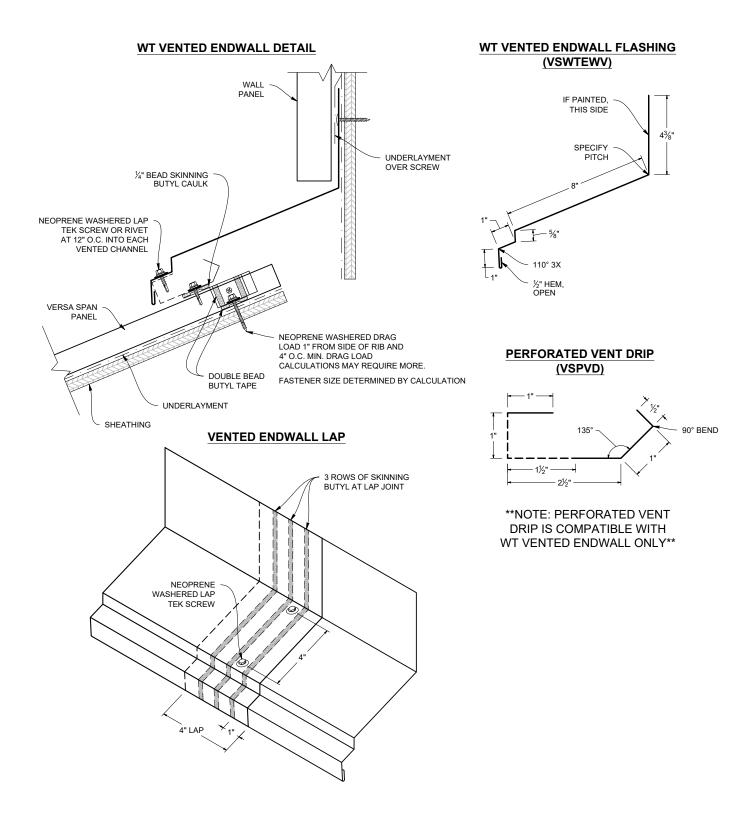


Endwall



Vented Endwall

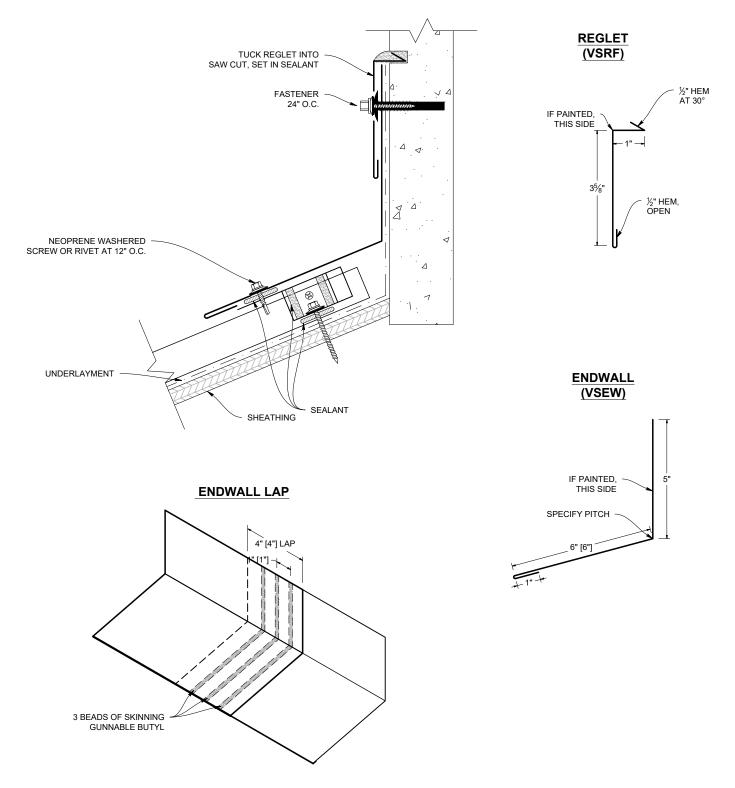






Endwall w/ Saw Cut Reglet

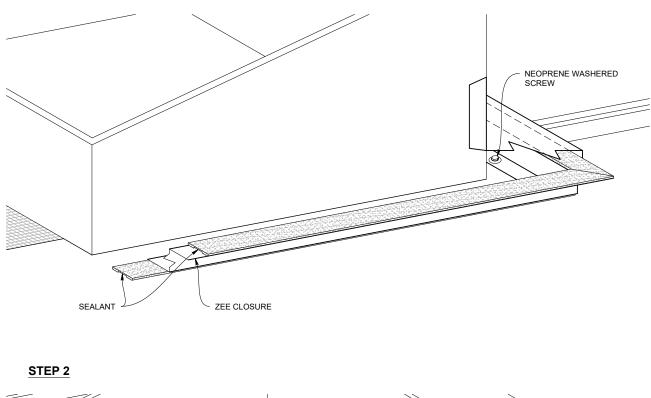
SAW CUT ENDWALL DETAIL

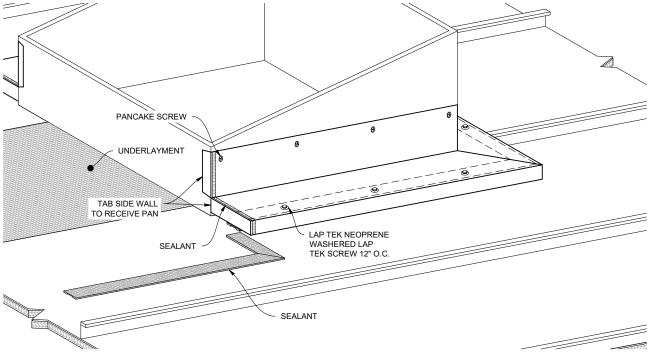


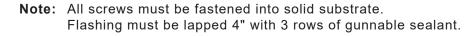
Curb Back Pan / Cricket



STEP 1



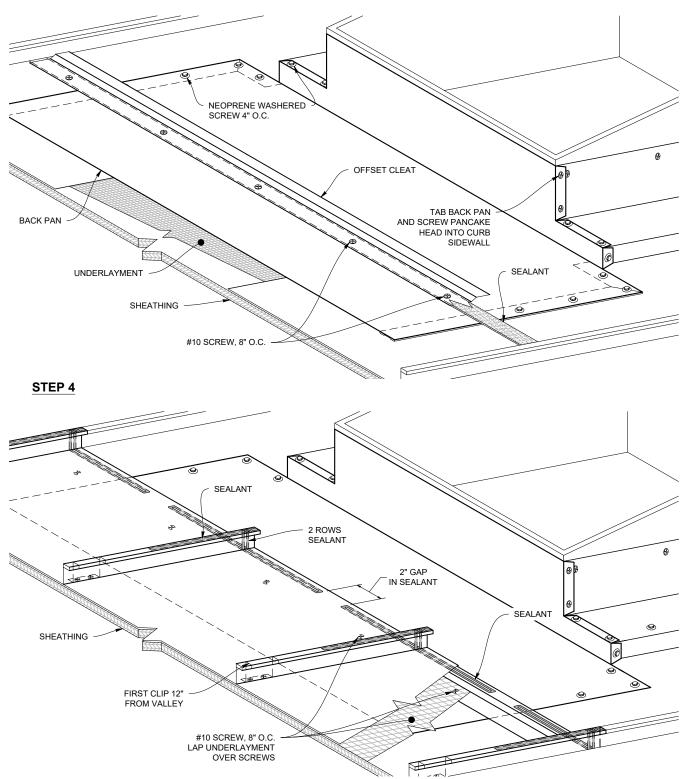






Curb Back Pan / Cricket

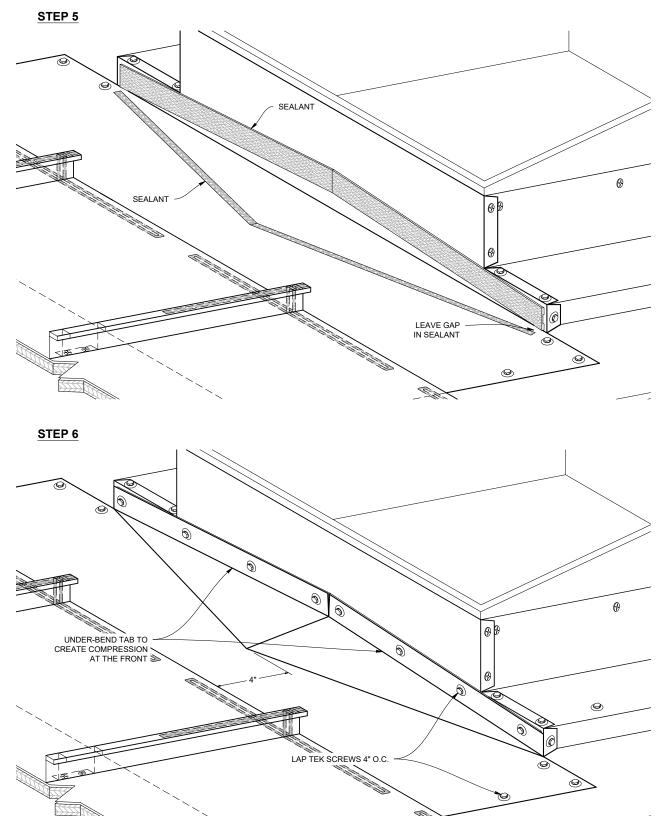
STEP 3



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

Curb Back Pan / Cricket



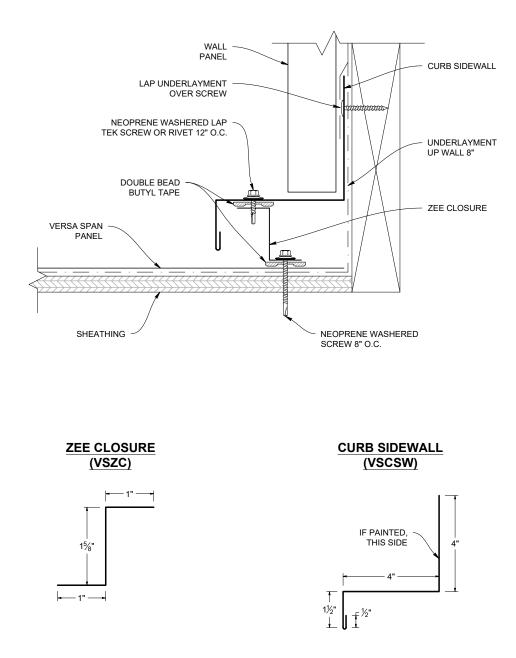


Note: All screws must be fastened into solid substrate. Flashing must be lapped 4" with 3 rows of gunnable sealant.

Curb Sidewall



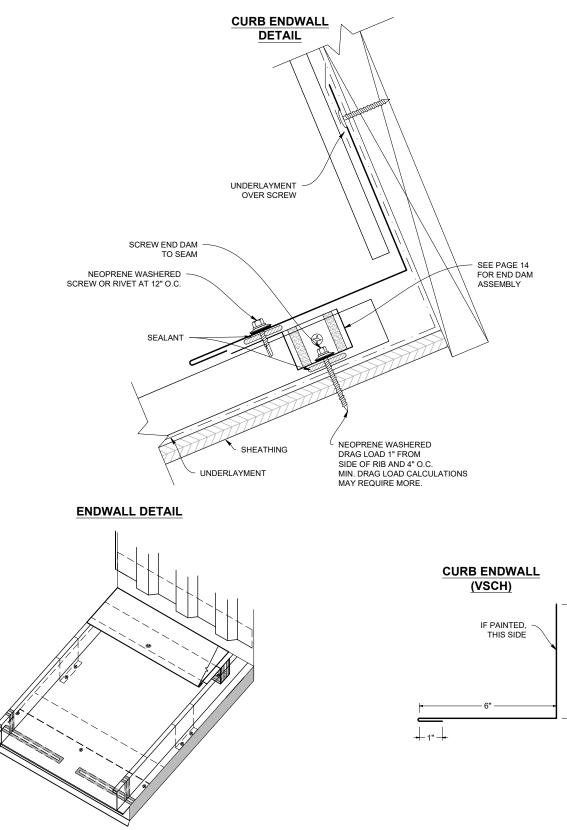
CURB SIDEWALL DETAIL



Curb Endwall



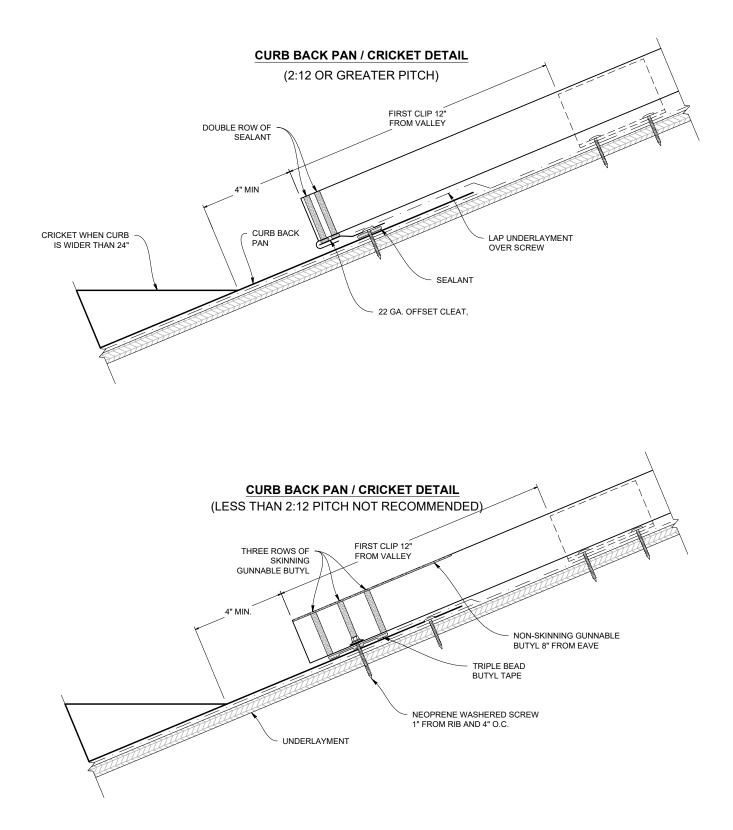
5'



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

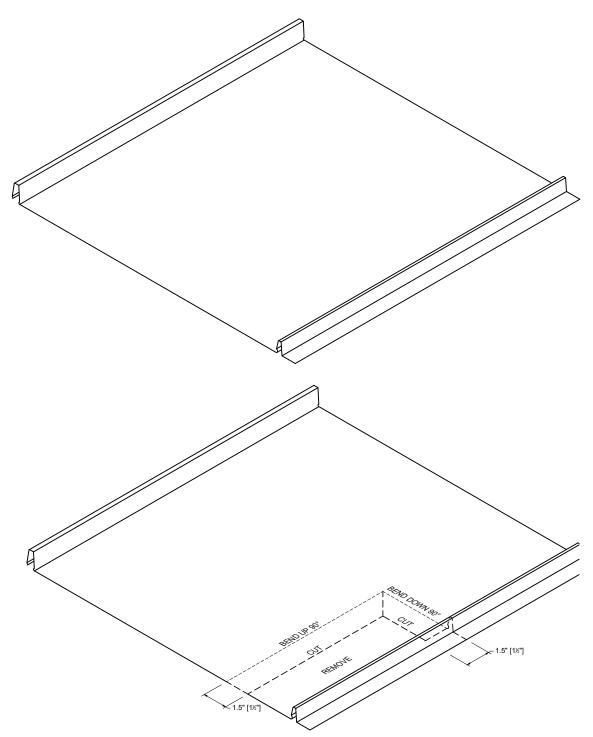


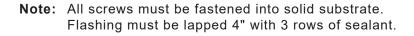
Curb Back Pan / Cricket Detail



Eave to Gable Transition

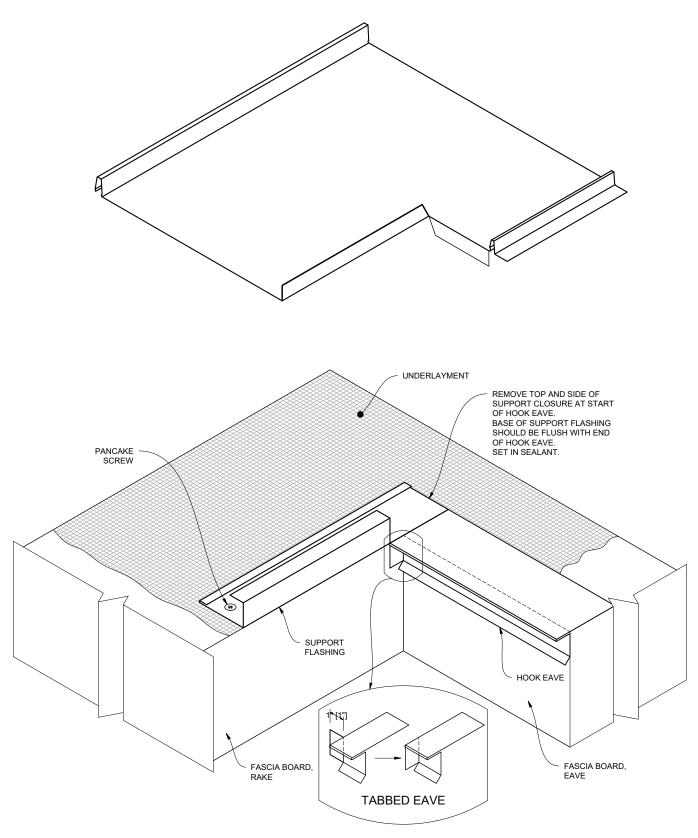






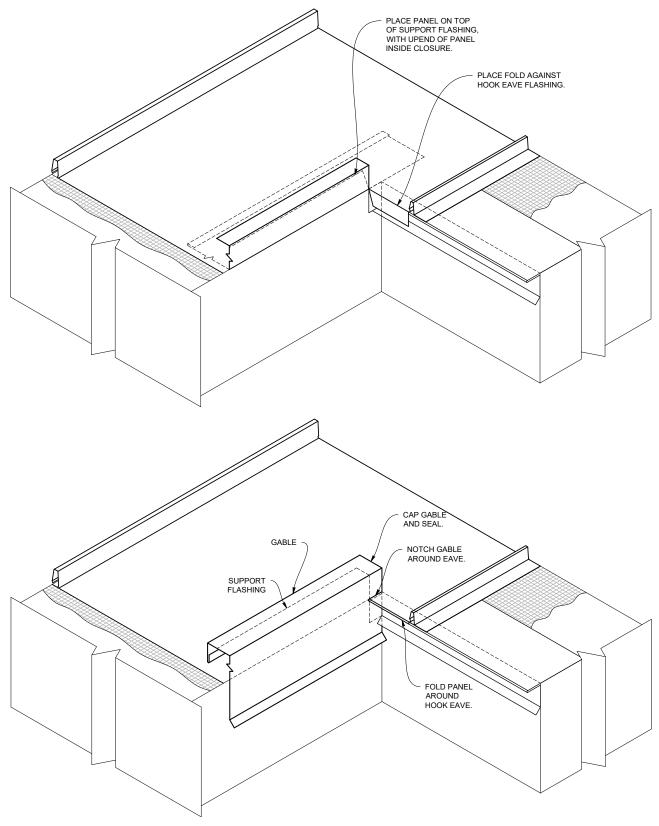


Eave to Gable Transition



Eave to Gable Transition



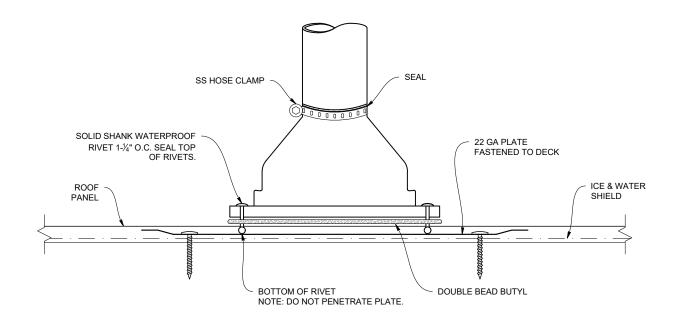


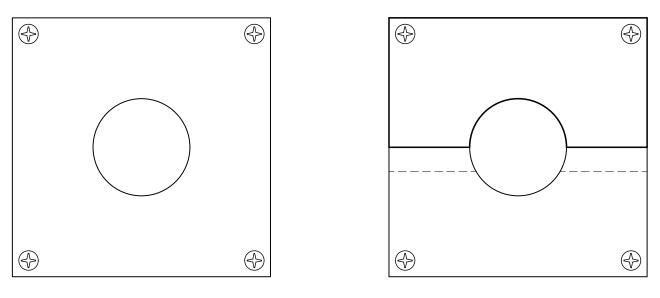
Note: All screws must be fastened into solid substrate. Flashing must be lapped 4" with 3 rows of sealant.



Pipe Penetration - on Plate

FOR PIPES LOCATED GREATER THAN 20' FROM PIN POINT





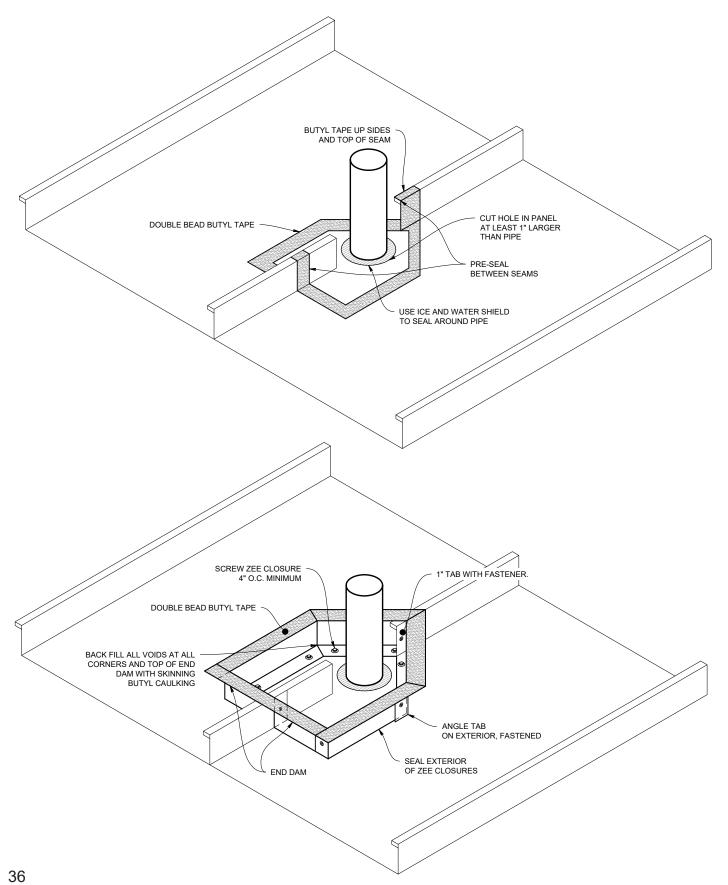
SINGLE 22 GAUGE PLATE

TWO OVERLAPPING 22 GAUGE PLATES

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

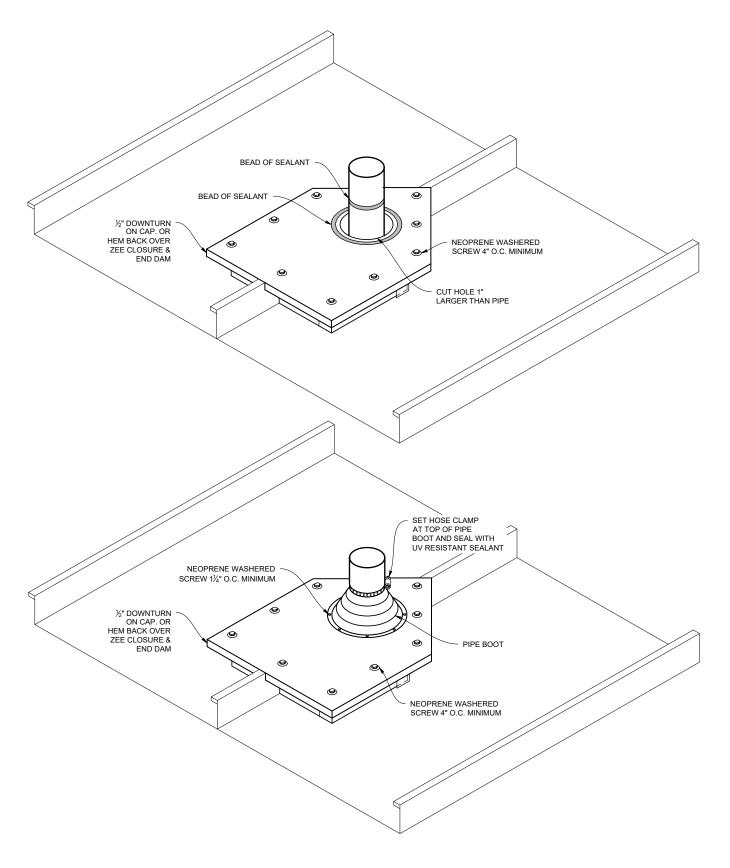
Pipe Penetration - on Rib





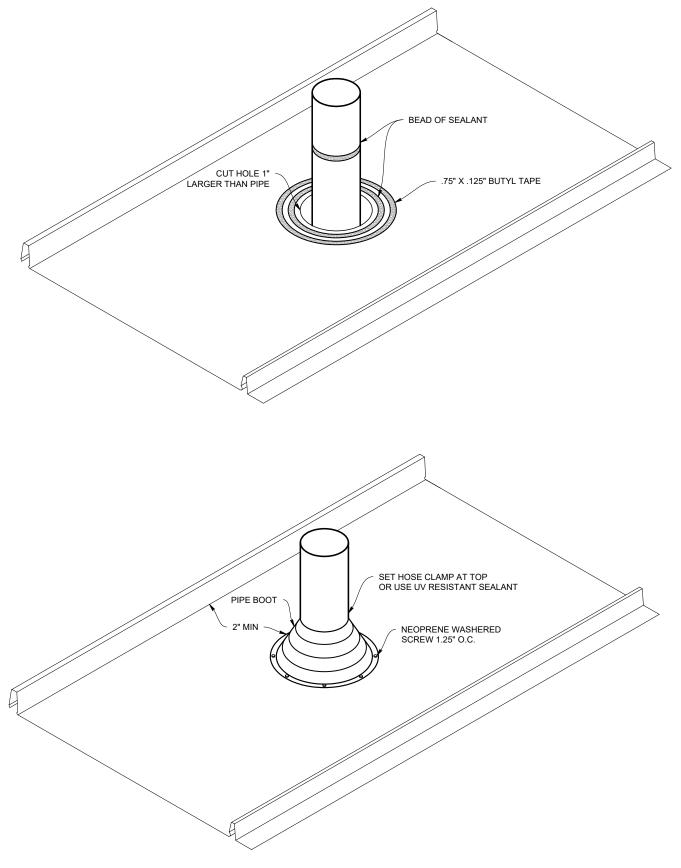


Pipe Penetration - on Rib

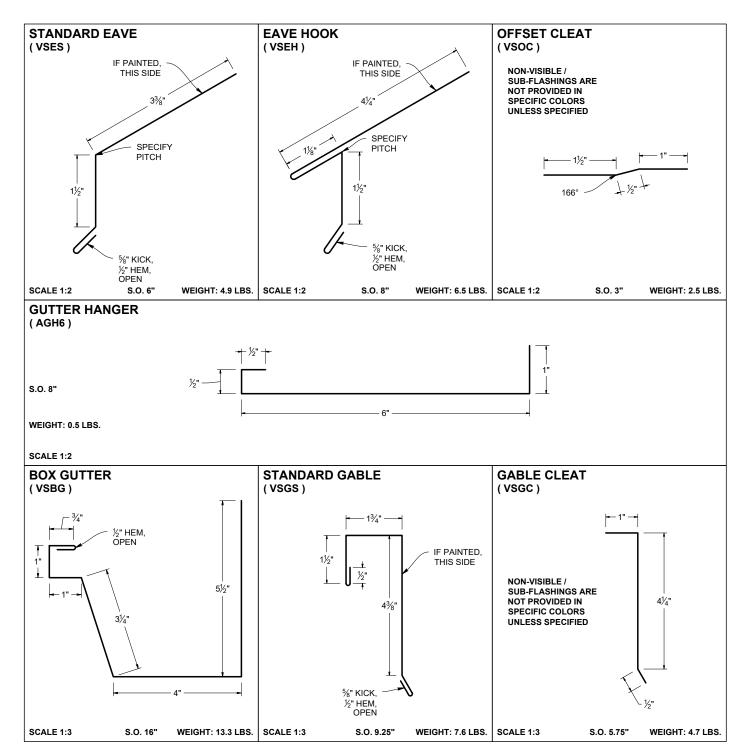


Pipe Penetration - on Pan

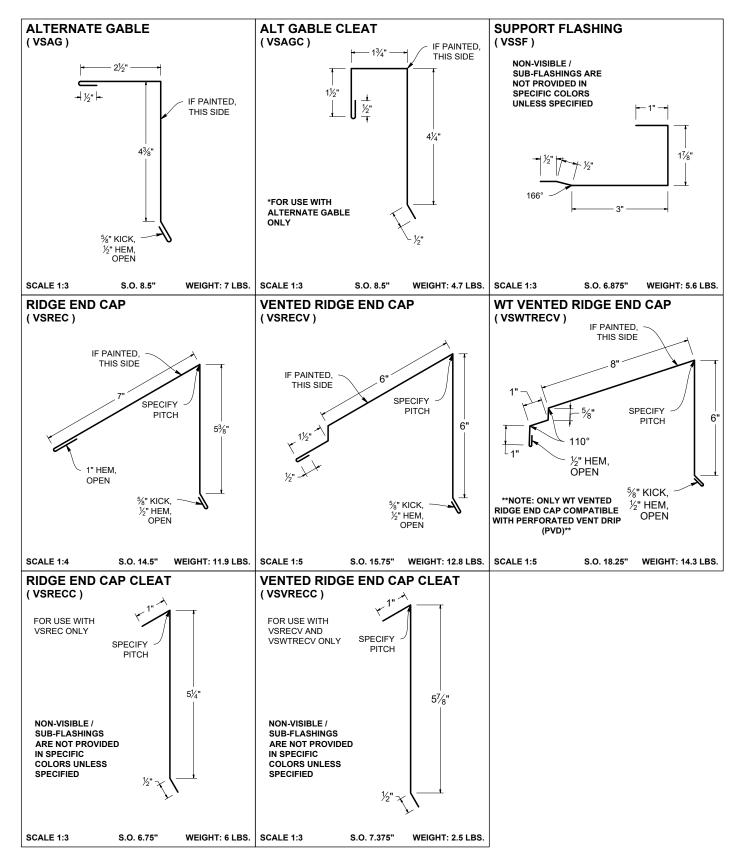






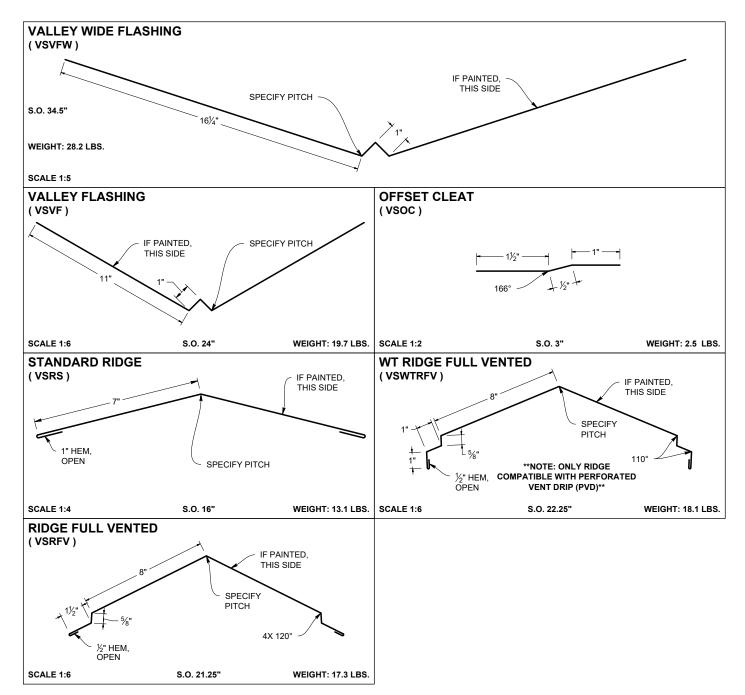




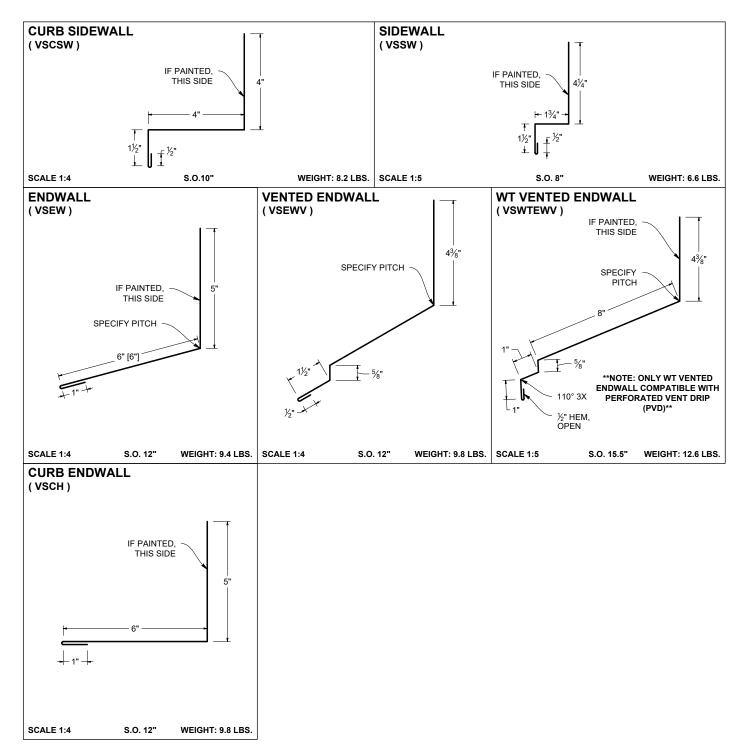




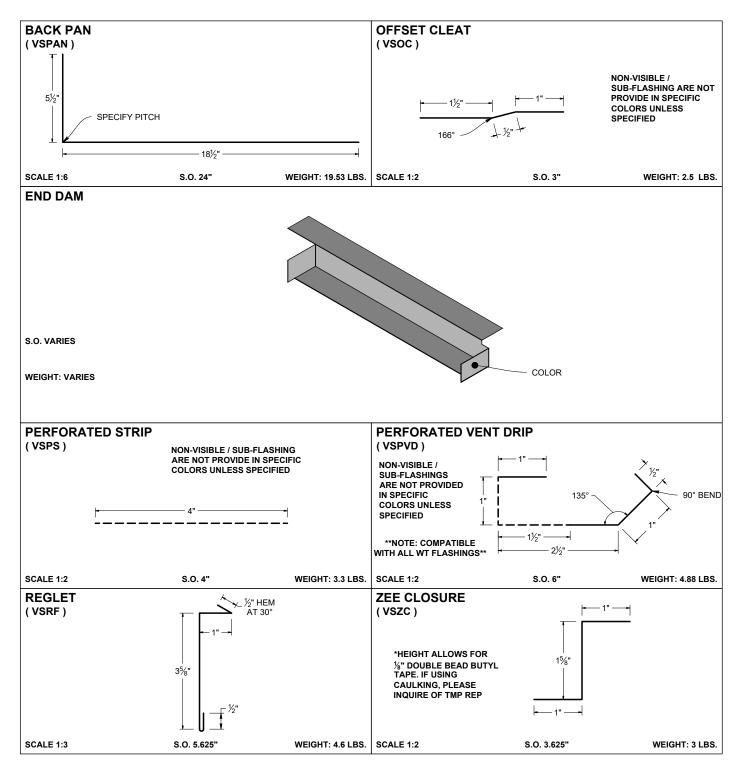
Versa-SpanTM Flashing and Details Selection Flashing: 10' Standard











	C)rdei	r Fori	m	Inside Sal	9:								
METAL PRO		rder	□ Add-	-on Oro	der 🗆 Qu	ote								
METAL PRO				_ Date:										
Sold To:														
Order Contact: Phone #: Fax #:				I Call	Delivery Delivery Date	9:								
□ Agricultural	Resident	-		Comme	Commerical Route:									
Standard Panels are in Bold font. PBR Marion "R" Panel Max Corr 2-1/2" Corrugated Classic 7/8" Corruga GR-7 HR-34 T-3 Tuff-Rib	Notched? Y / N Clip Relief? Y / Notched AND Tabbed? Y / N (REQUIRE Screw Concealer? Y / N (Standard for Rib 12" Easy-Lock*	Flat (Flat N Seala D together for Eas s and Striations) ShadowLi 1/2" to 1"x12" Sm 1"x12" Liff Choice: Groove	nt? Y / N syLock & StreamLine) ine**(circle): <u>1</u> ", c 3" Reveal: noothWall** fetime Soffit	t**	5 5/8" Slim-Lock* 2" MS-200* 4" MS-200* 3" MS-200* 2" MS-150* 5" MS-150* 5" MS-150* 3" MS-150* 3" MS-100* 7" MS-100* ther Panel:	Color: Pitch: Dmatch: Pallet: 10' 12" Versa-3 14" Versa-3 16" Versa-3 18" Versa-3 14 5/8" T-P	20' 30' Span* • Span * Span* • Span *							
I Flashing	m-Lock, Easy-Lock, Lifetime Soffit, Smoo ch StreamLine, T-3, Tuff Rib, GR7, PBR,					S-200 flashings ar	e 10'							
Quantity Length	Item Description	Part #	Quantity	Length	Item Desc	ription	Part #							
							<u> </u>							
							<u> </u>							
							<u> </u>							
							+							
Forgetting Anything Underlayment?	? Screws? NE • Salem, OR 97301 •		ps?	Caulki	5	Closures?	L com							



Custom Trim Order

Customer N	ame:						Job Name	:								
Gauge:			Color:				Status		Original	□ New						
Specify: 🗆	Angles 🗆	Colo	r Side □	Dimensions	□ S	stretchout										
Dwg #: Description:					Desc	cription:			t of Pieces:							
Hems: C		Closed						lose	d 🗌 Sligh							
SO	Pitch:		of Pieces:		SO	#:	Pitch:		¢ of Pieces:							
Description:					_ Description:											
Hems: 🗌 C	Dpen 🗌	Closed	I 🗌 Sligl	htly Open	Hem	is: 🗌 Op	en 🗌 C	lose	d 🗌 Sligh	ntly Open						

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



Custom Trim Order

Customer N	ame:						Job Name	:								
Gauge:			Color:				Status		Original	□ New						
Specify: 🗆	Angles 🗆	Colo	r Side □	Dimensions	□ S	stretchout										
Dwg #: Description:					Desc	cription:			t of Pieces:							
Hems: C		Closed						lose	d 🗌 Sligh							
SO	Pitch:		of Pieces:		SO	#:	Pitch:		¢ of Pieces:							
Description:					_ Description:											
Hems: 🗌 C	Dpen 🗌	Closed	I 🗌 Sligl	htly Open	Hem	is: 🗌 Op	en 🗌 C	lose	d 🗌 Sligh	ntly Open						

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

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