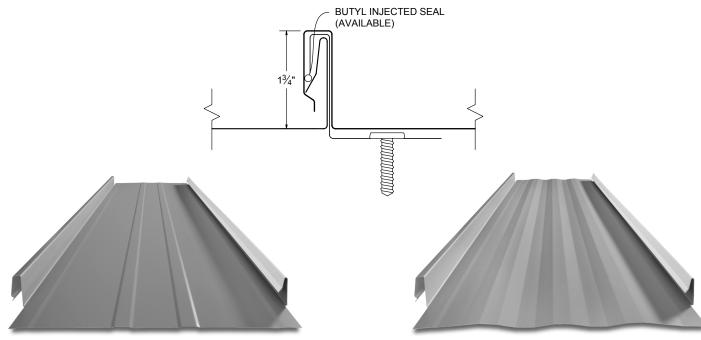


Versa-Span[™] Installation Guide





TAYLOR

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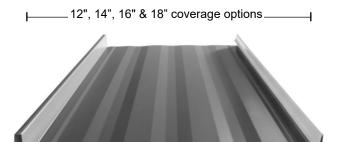
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	/			
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Versa Span TM STANDING SEAM



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



STRIATIONS

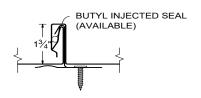


FLAT PAN



FLAT ACCENT RIBS

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



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

- Service ICC-ESR #5046 with CBC-CRC Supplement
- 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 E1514 Standard for Structural Standing steel roof panels systems.
- · 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
- ASTM E2886 Ember Resistant ridge/endwall/peak flashings available



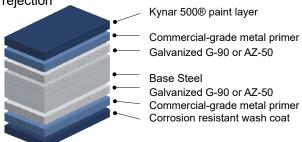
MATERIAL SPECIFICATIONS

- 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)

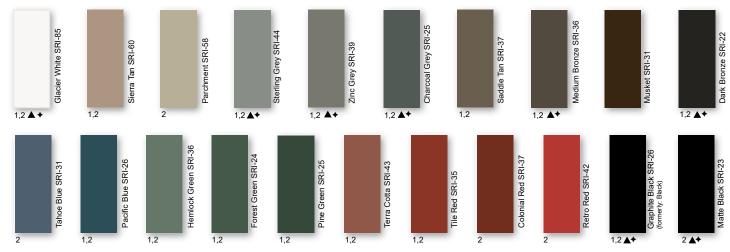
FINISHES

- 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

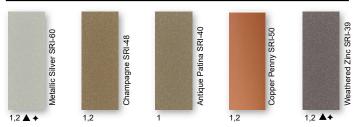
 "Oil Canning" is an inherent characterisite of roof and wall products, and not a defect, which is not a cause for panel rejection



STANDARD COOL KYNAR 500® COLORS



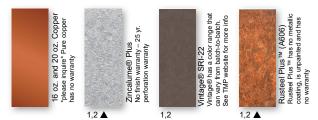
PREMIUM METALLIC COOL KYNAR® COLORS



These printed chips provide a close representation of the colors.

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

SPECIALIZED MATERIAL











Rev. Date 09/2025

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.



Notes to Designer / Installer



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.

<u>Underlayment</u>

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.



Notes to Designer / Installer

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.

Handling and Storage



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.

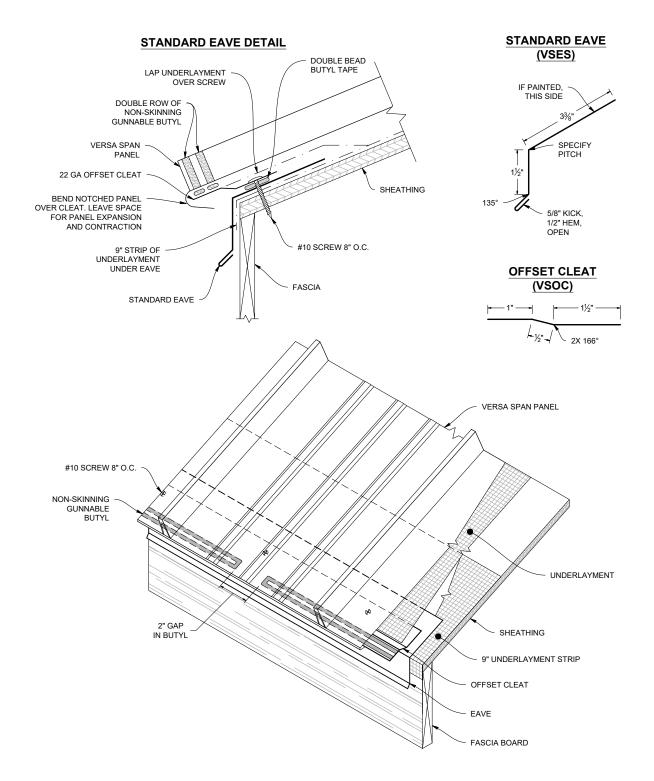
Metal roofs that are wet or dusty can be extremely slippery. Wear soft soled shoes and a safety harness to minimize risk of falling.

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.

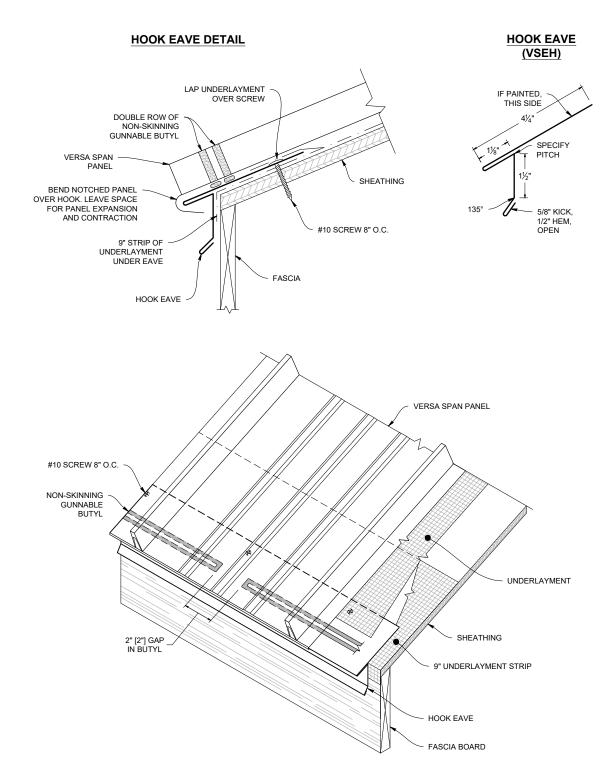


Standard Eave



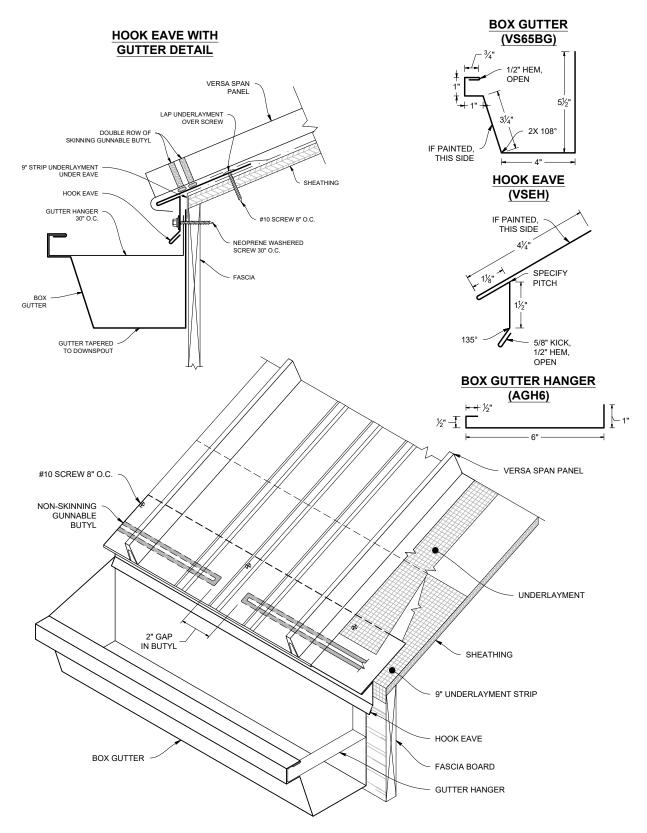
Hook Eave







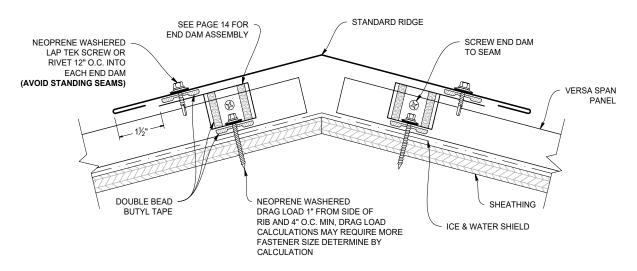
Gutter / Hook Eave



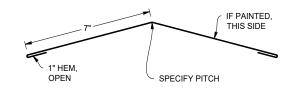
Standard Ridge



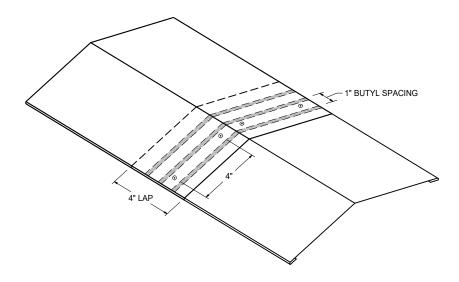
STANDARD RIDGE DETAIL



STANDARD RIDGE (VSRS)



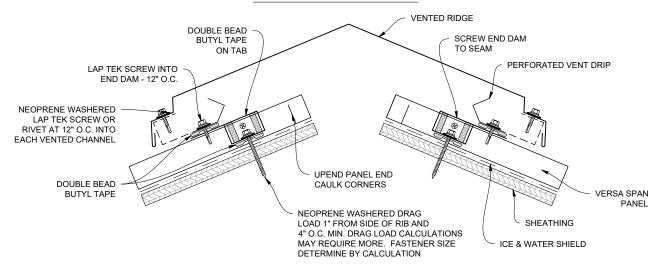
RIDGE LAP





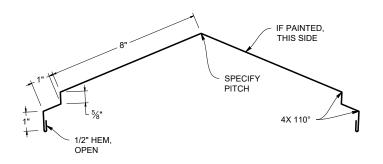
Vented Ridge

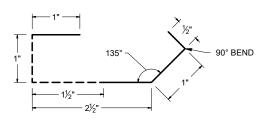
WT RIDGE VENTED DETAIL



WT RIDGE FULL VENTED (VSWTRFV)

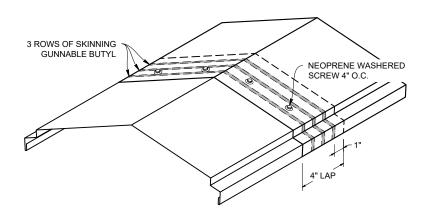
PERFORATED VENT DRIP: E2886 EMBER RESISTANT (VSPVD)





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

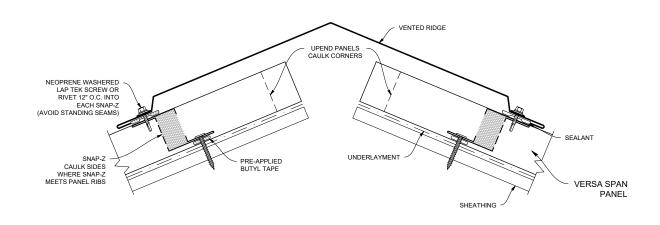
VENTED RIDGE LAP



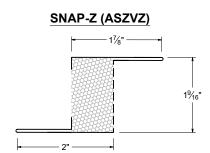
Full Vented Ridge with Snap-Z

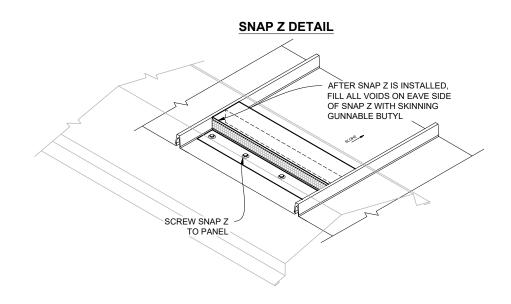


FULL VENTED RIDGE DETAIL WITH SNAP-Z



FULL VENTED RIDGE (VSWTRFV) IF PAINTED, THIS SIDE SPECIFY PITCH 1/2" HEM, OPEN

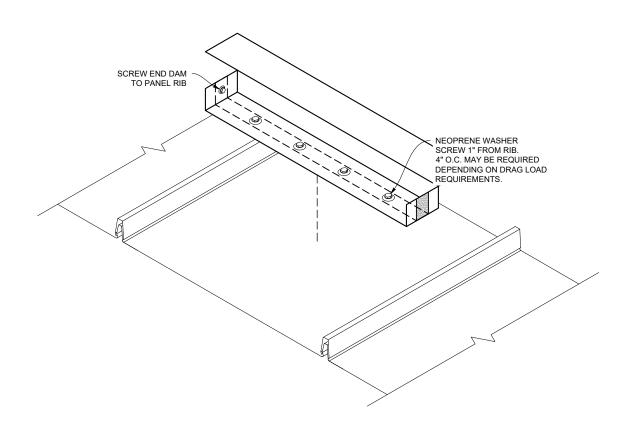


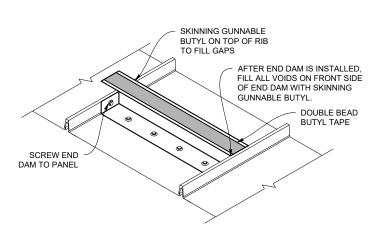


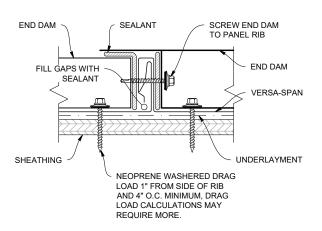


End Dam Attachment

END DAM ATTACHMENT APPLICATION

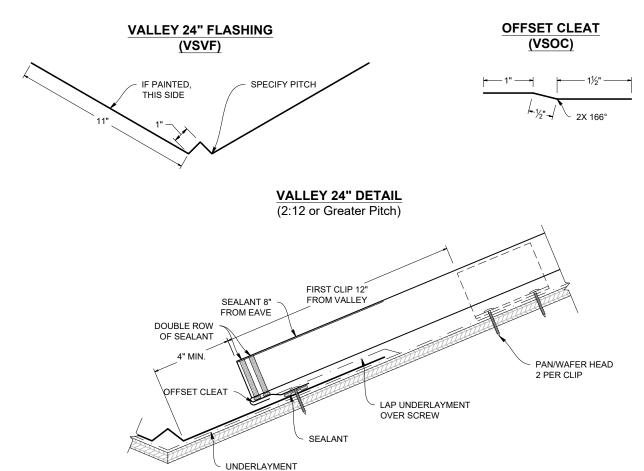




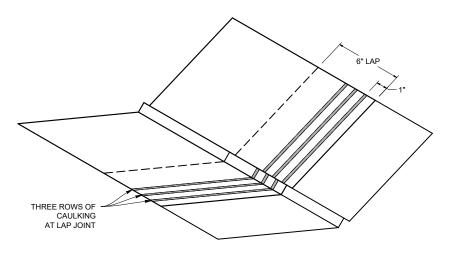


Valley Slope 2:12 or Greater





VALLEY LAP (2:12 or Greater Pitch)

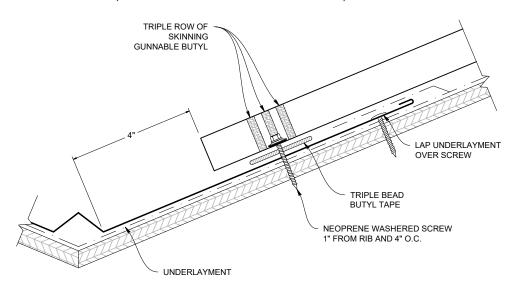




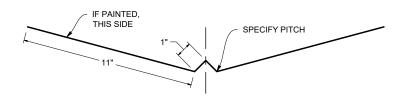
Valley - Low Pitch Slope Less than 2:12 (Not Recommended)

LOW SLOPE VALLEY DETAIL

(Less Than 2:12 Pitch - Not Recommended)

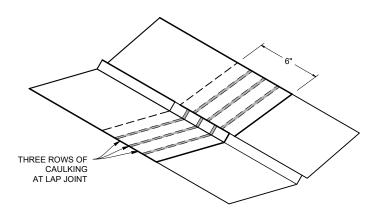


VALLEY FLASHING (VSVF)



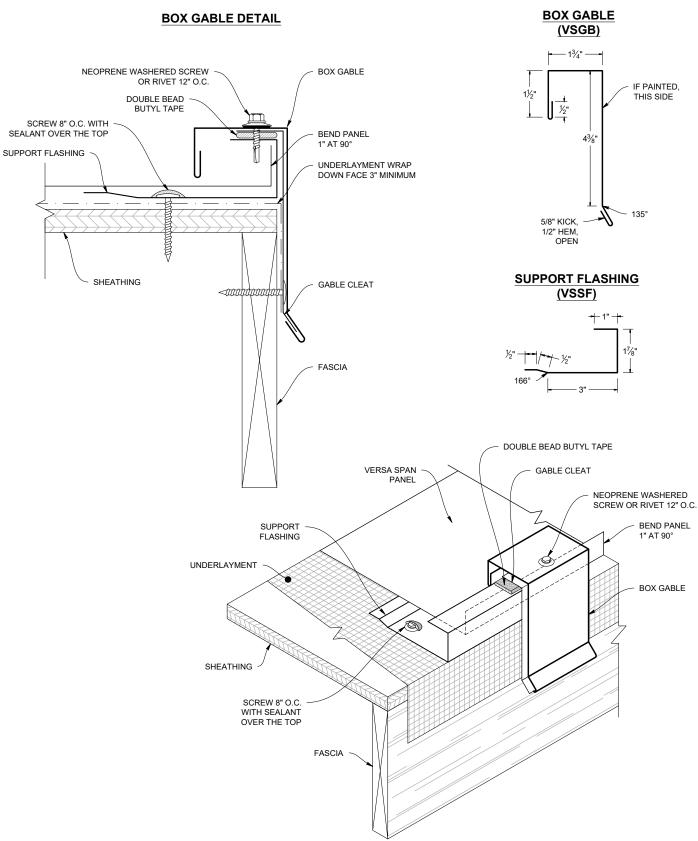
LOW SLOPE VALLEY LAP

(Less Than 2:12 Pitch - Not Recommended)



Box Gable

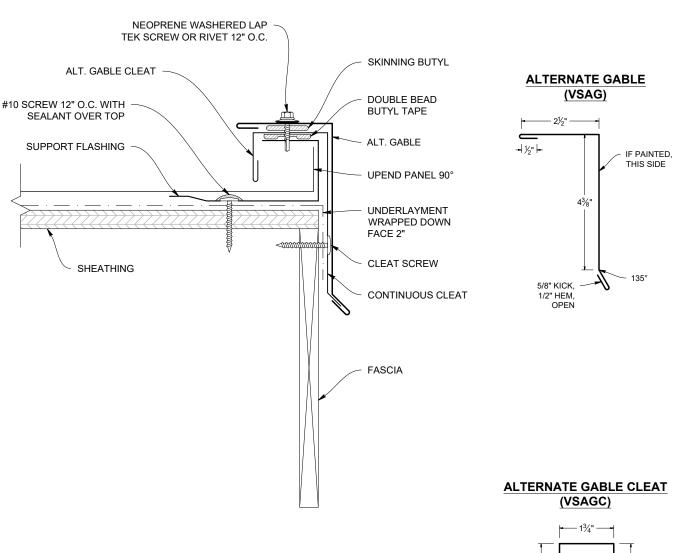




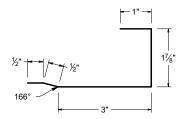


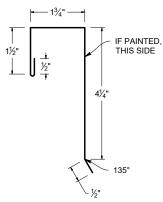
Alternate Gable

ALTERNATE GABLE DETAIL



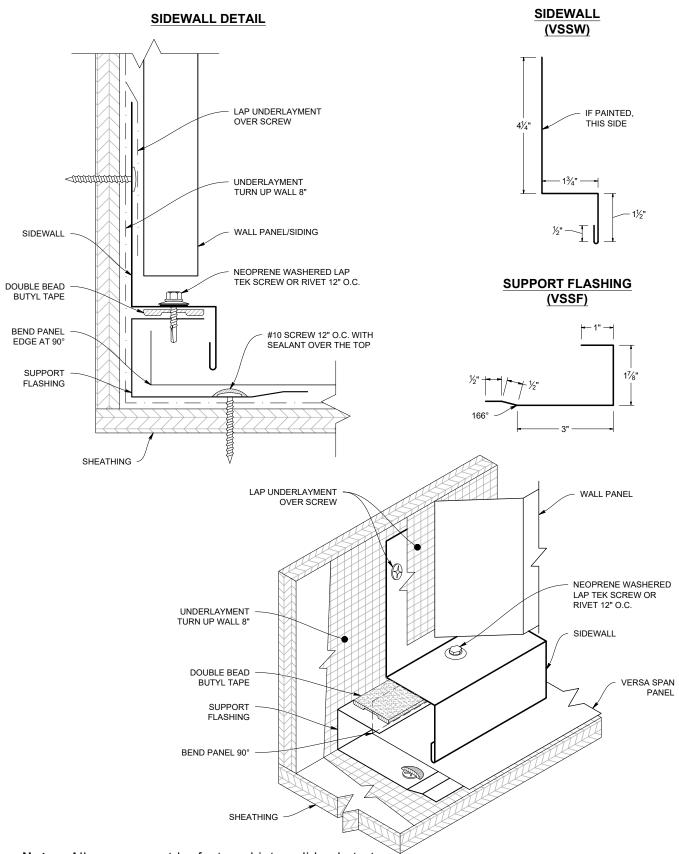
SUPPORT FLASHING (VSSF)





Sidewall





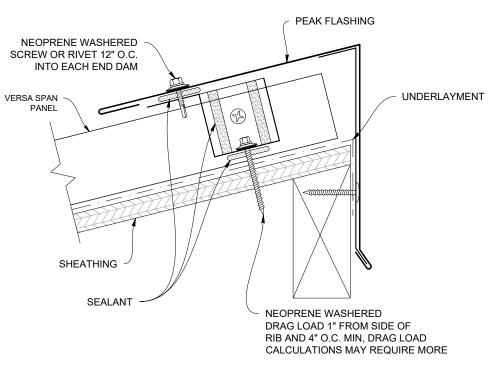


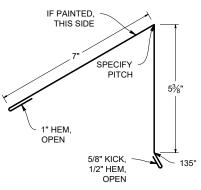
Peak Flashing (Ridge End Cap)

PEAK FLASHING DETAIL

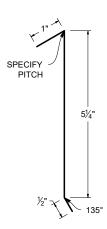
(Ridge End Cap)

PEAK FLASHING (Ridge End Cap) (VSREC)

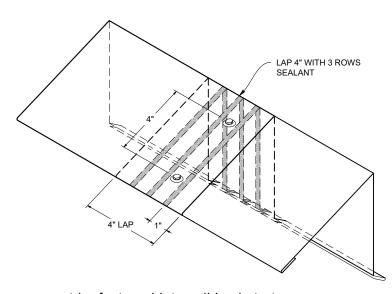




PEAK CLEAT (VSRECC)



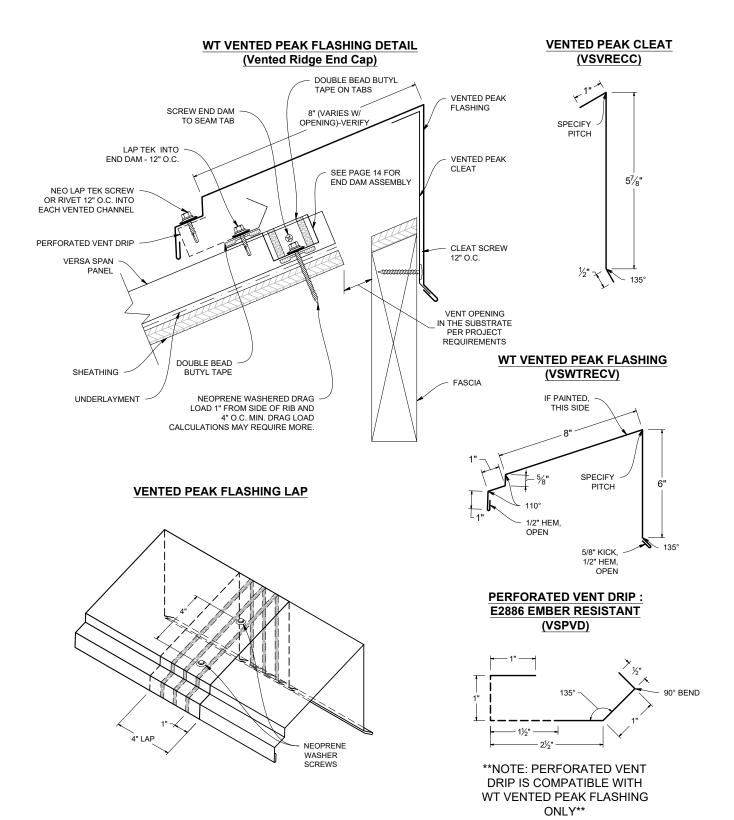
PEAK FLASHING LAP



Vented Peak Flashing

(Ridge End Cap)





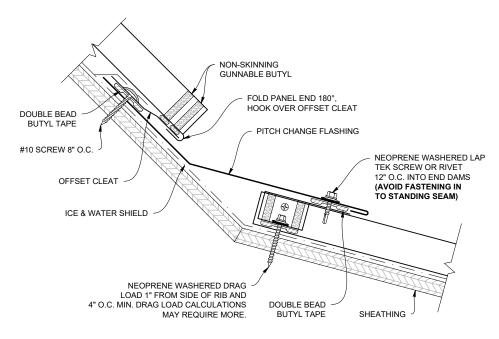
Note: All screws must be fastened into solid substrate. Flashing must be lapped 4" with 3 rows of sealant.

24

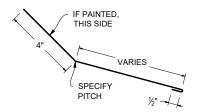


Pitch Change

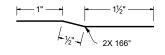
PITCH CHANGE DETAIL



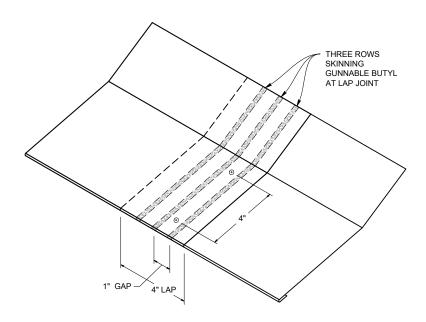
INSIDE PITCH CHANGE FLASHING (VSPCI)



OFFSET CLEAT (VSOC)

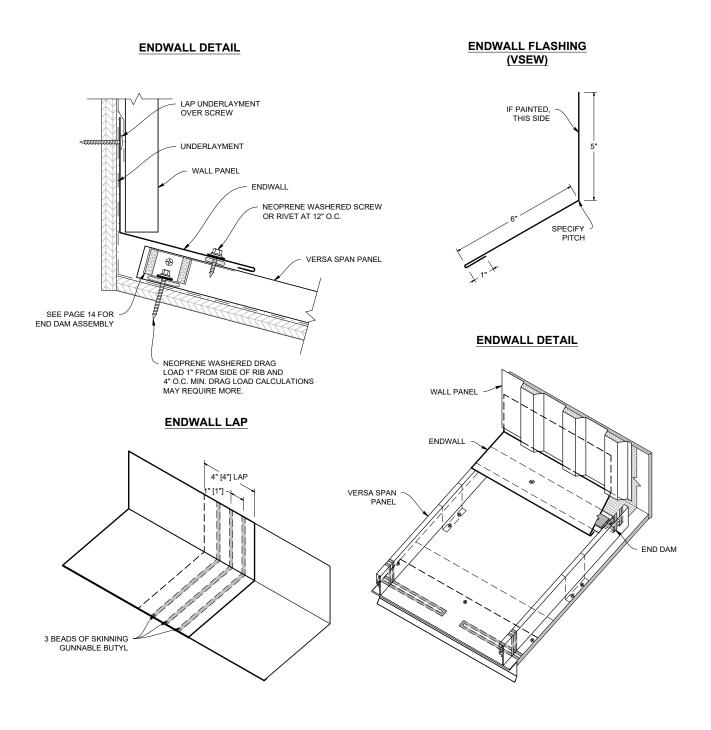


PITCH CHANGE LAP



Endwall







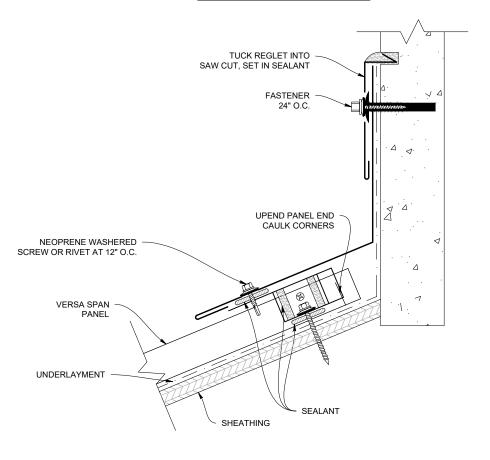
Vented Endwall

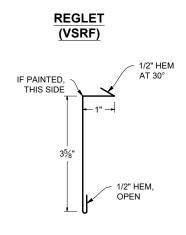
WT VENTED ENDWALL DETAIL WT VENTED ENDWALL FLASHING (VSWTEWV) WALL PANEL IF PAINTED, THIS SIDE 43/8" UNDERLAYMENT **OVER SCREW** 1/4" BEAD SKINNING BUTYL CAULK SPECIFY PITCH NEOPRENE WASHERED LAP TEK SCREW OR RIVET AT 12" O.C. INTO EACH UPEND PANEL END & CAULK VENTED CHANNEL CORNERS 110° 3X 1/2" HEM, OPEN SEE PAGE 14 FOR VERSA SPAN END DAM ASSEMBLY PANEL NEOPRENE WASHERED DRAG LOAD 1" FROM SIDE OF RIB AND 4" O.C. MIN. DRAG LOAD CALCULATIONS MAY REQUIRE MORE. DOUBLE BEAD FASTENER SIZE DETERMINED BY CALCULATION **BUTYL TAPE** PERFORATED VENT DRIP: UNDERLAYMENT **E2886 EMBER RESISTANT** SHEATHING (VSPVD) **VENTED ENDWALL LAP** 3 ROWS OF SKINNING **BUTYL AT LAP JOINT** 90° BEND 135° 1½" - 21/2" -**NOTE: PERFORATED VENT NEOPRENE DRIP IS COMPATIBLE WITH WASHERED LAP WT VENTED ENDWALL ONLY** TEK SCREW 4" I AP

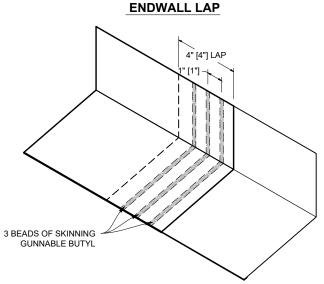
Endwall w/ Saw Cut Reglet

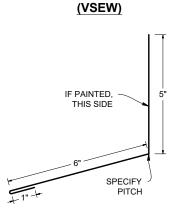


SAW CUT ENDWALL DETAIL









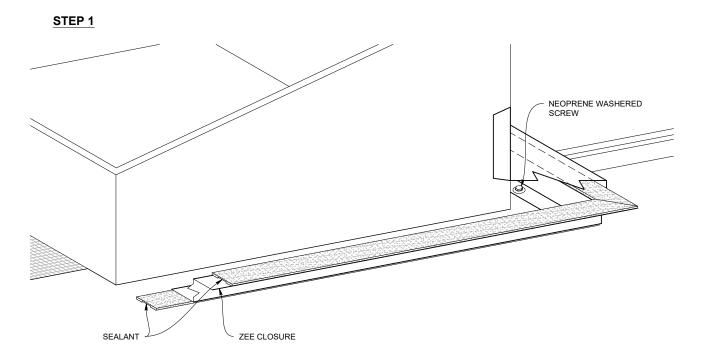
ENDWALL

Note: All screws must be fastened into solid substrate.

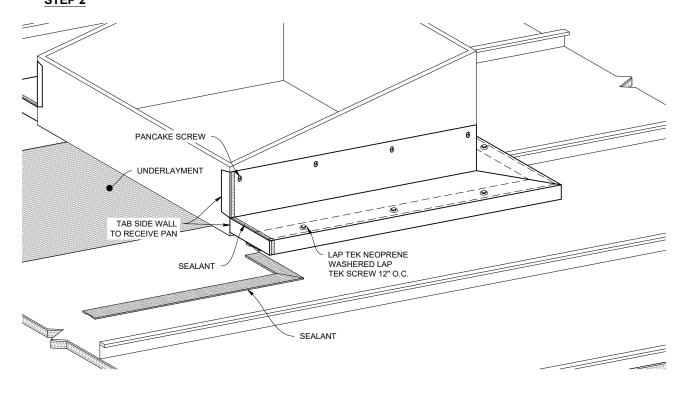
Flashing must be lapped 4" with 3 rows of gunnable sealant.



Curb Back Pan / Cricket

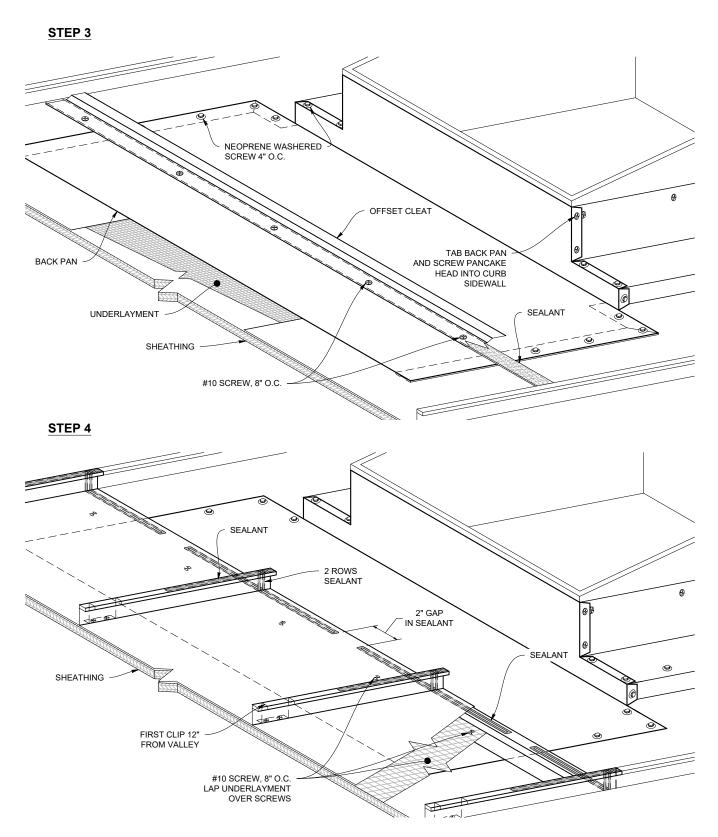


STEP 2



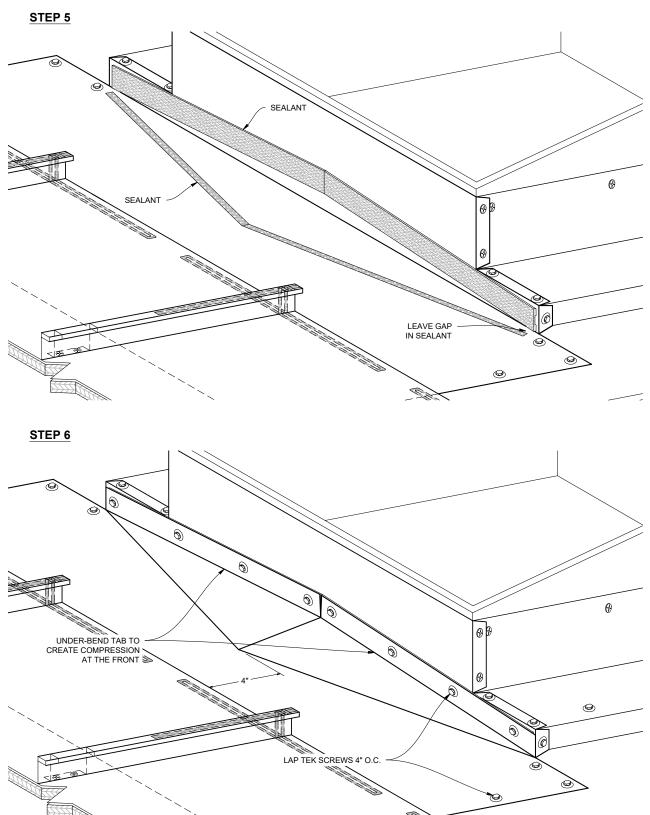
Curb Back Pan / Cricket







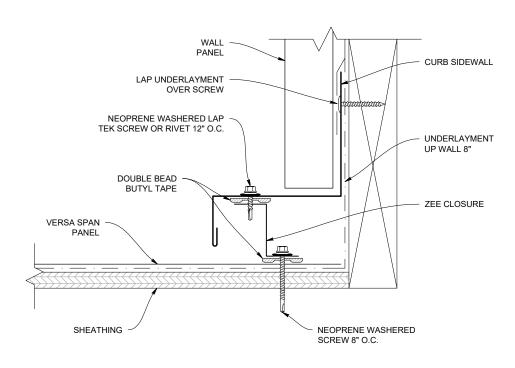
Curb Back Pan / Cricket



Curb Sidewall

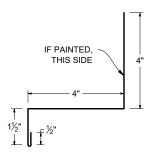


CURB SIDEWALL DETAIL



ZEE CLOSURE (VSZC) IF PAINTED, THIS SIDE

CURB SIDEWALL (VSCSW)

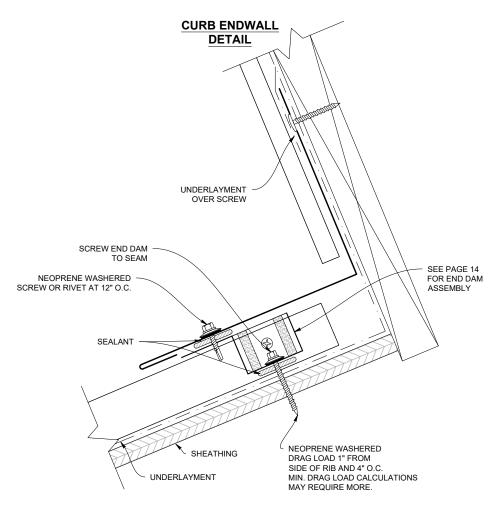


Note: All screws must be fastened into solid substrate.

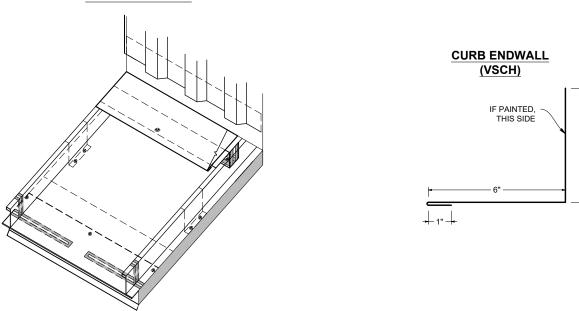
Flashing must be lapped 4" with 3 rows of gunnable sealant.



Curb Endwall

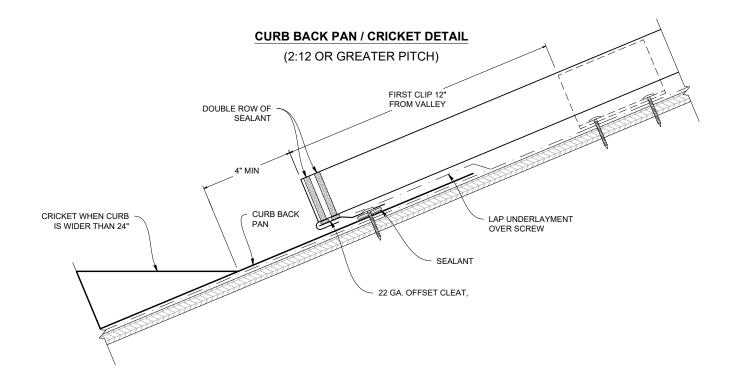


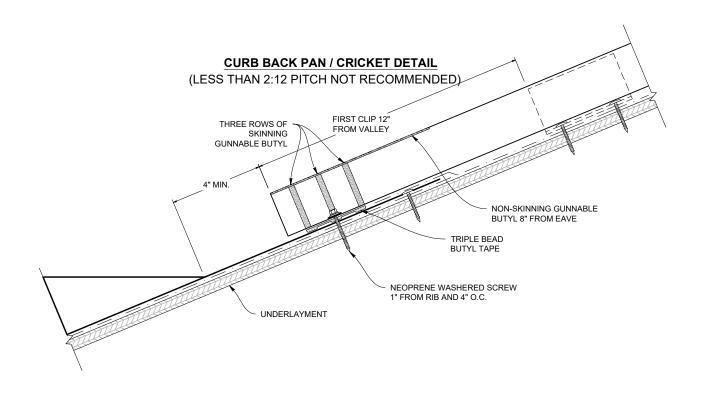
ENDWALL DETAIL



Curb Back Pan / Cricket Detail

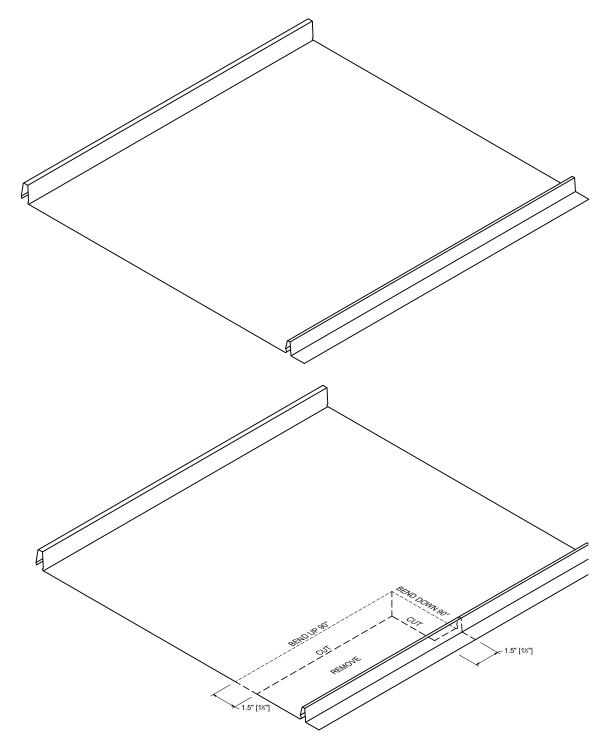






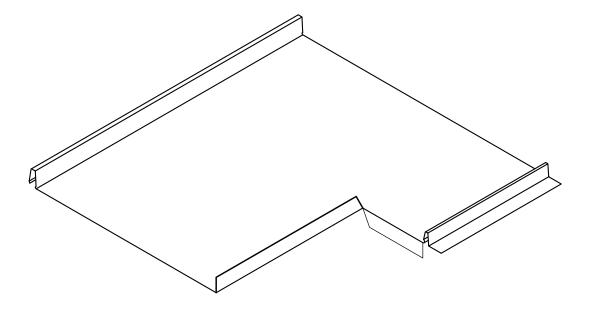


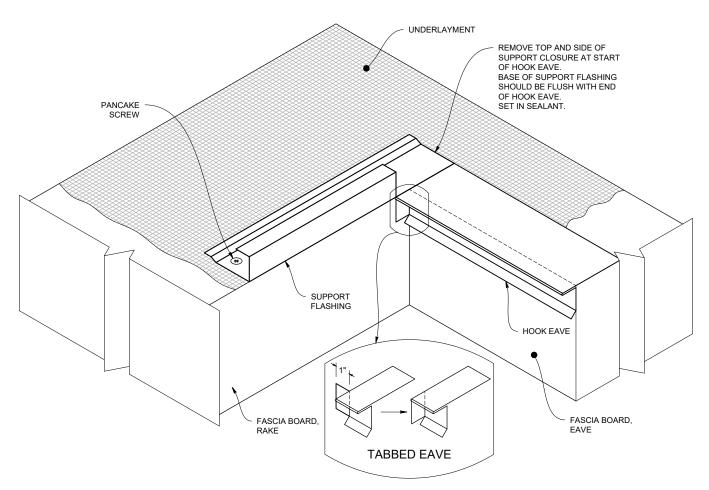
Eave to Gable Transition



Eave to Gable Transition

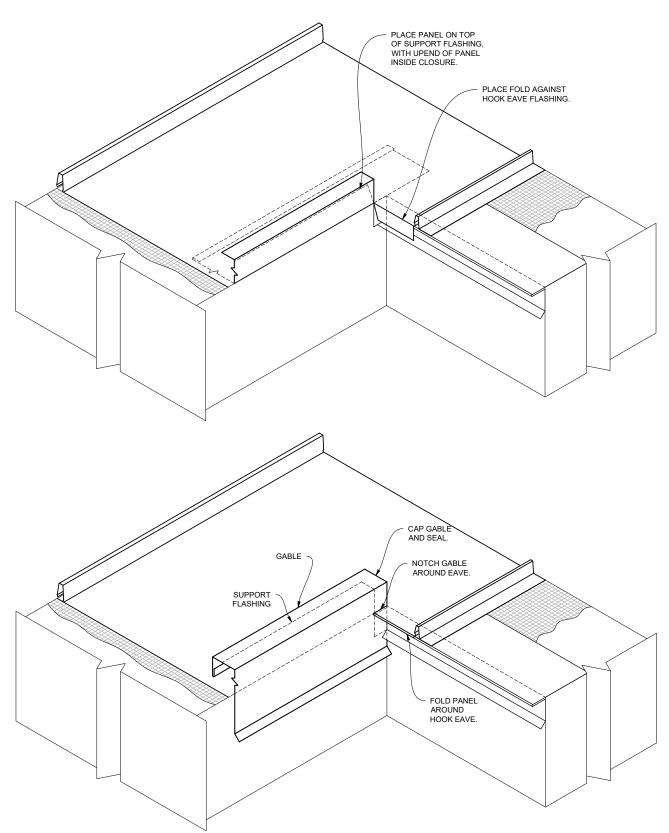








Eave to Gable Transition

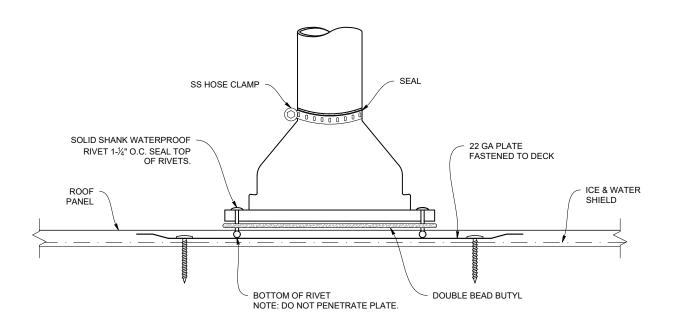


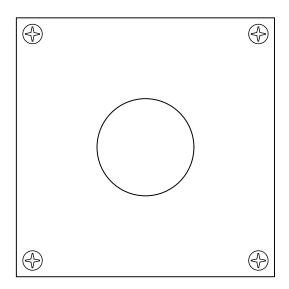
Note: All screws must be fastened into solid substrate. Flashing must be lapped 4" with 3 rows of sealant.

Pipe Penetration - on Plate

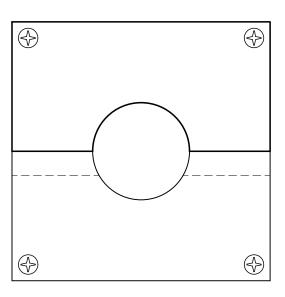


FOR PIPES LOCATED GREATER THAN 20' FROM PIN POINT









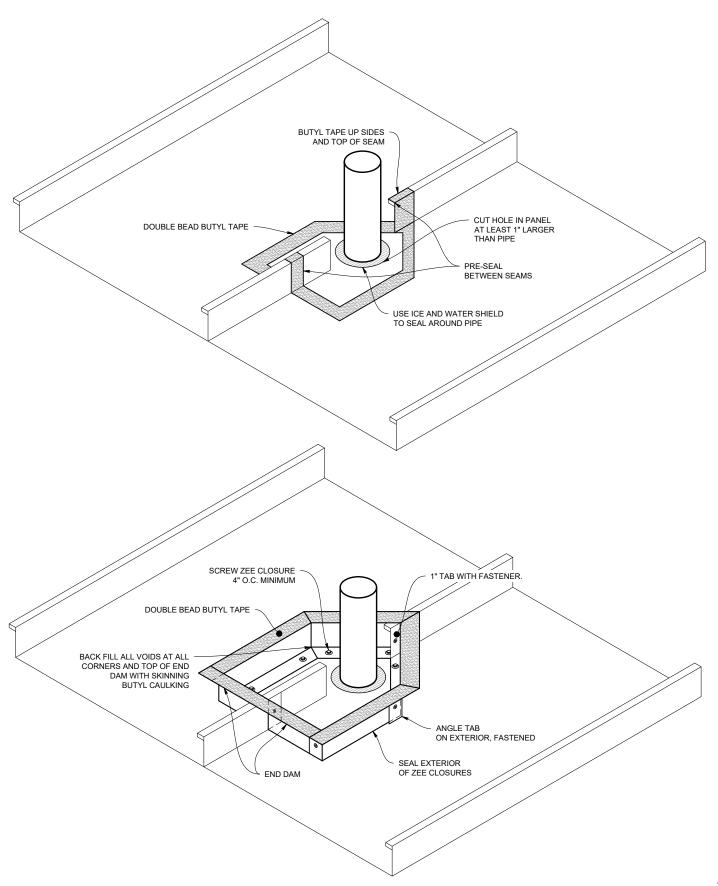
TWO OVERLAPPING 22 GAUGE PLATES

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

38

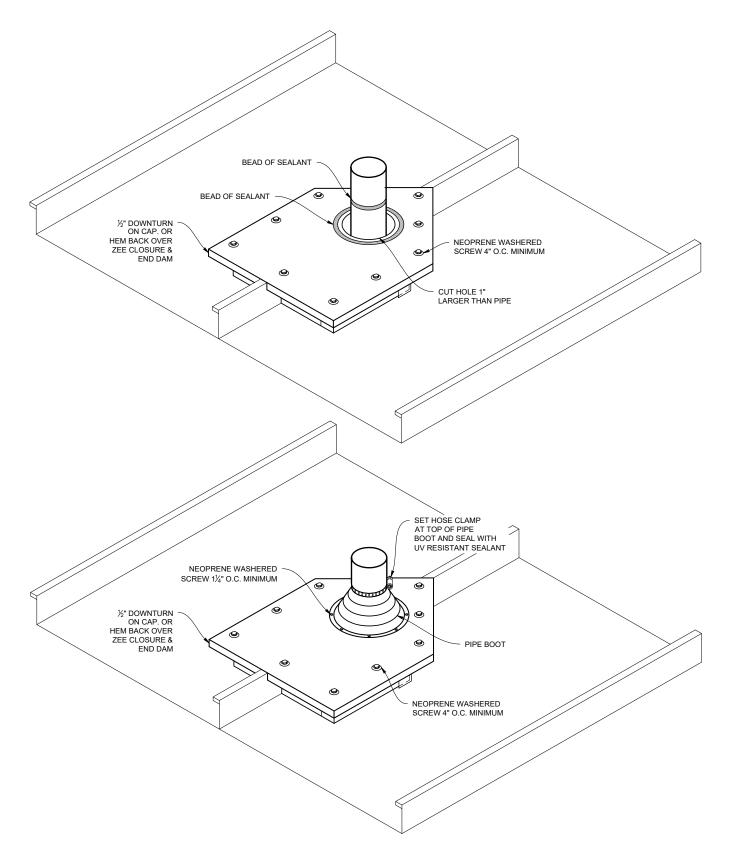


Pipe Penetration - on Rib



Pipe Penetration - on Rib

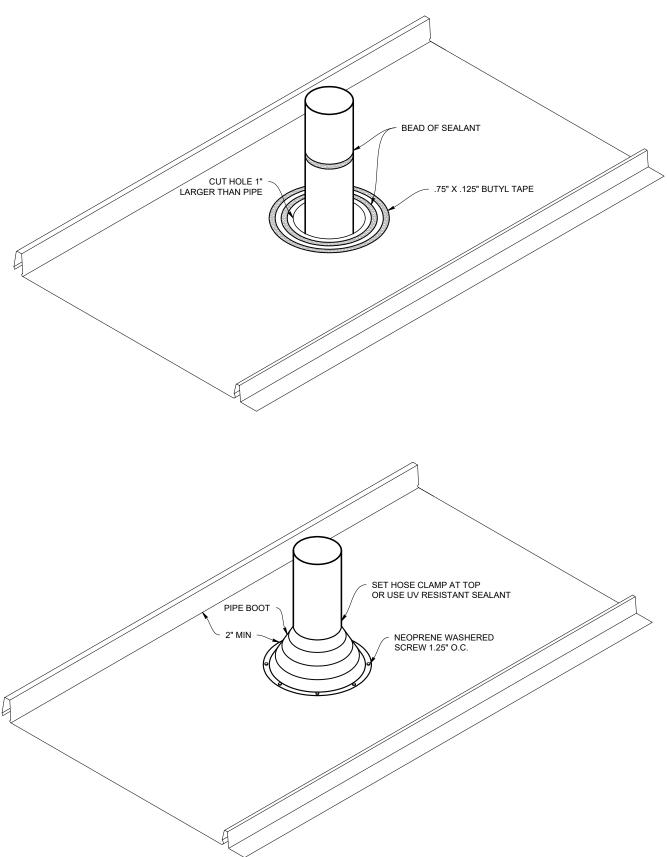




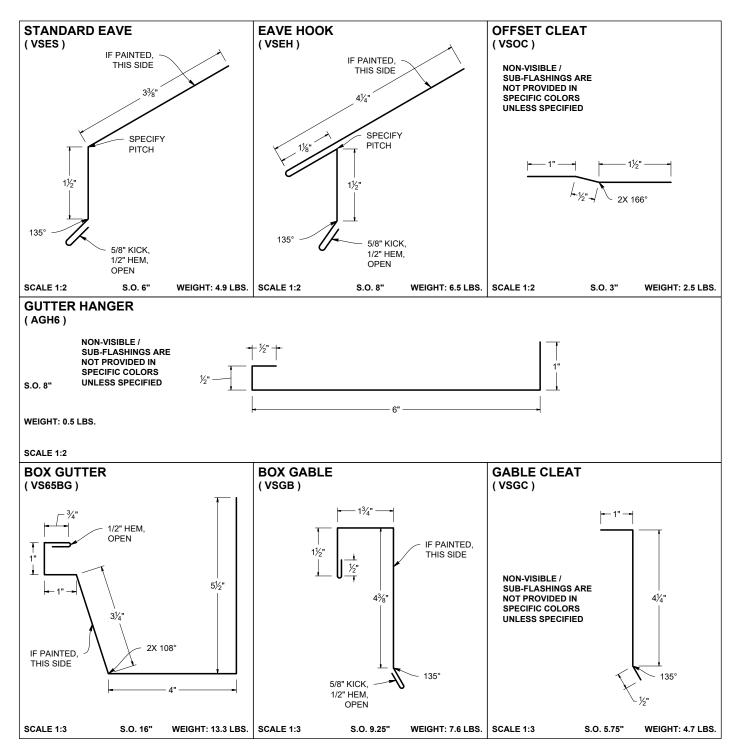
40



Pipe Penetration - on Pan



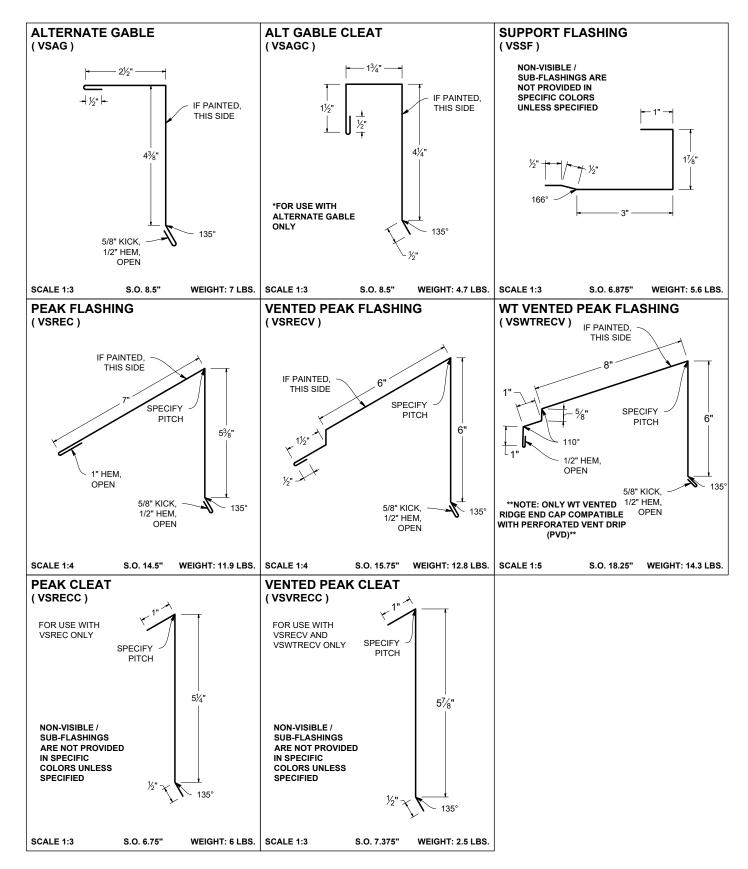


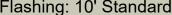




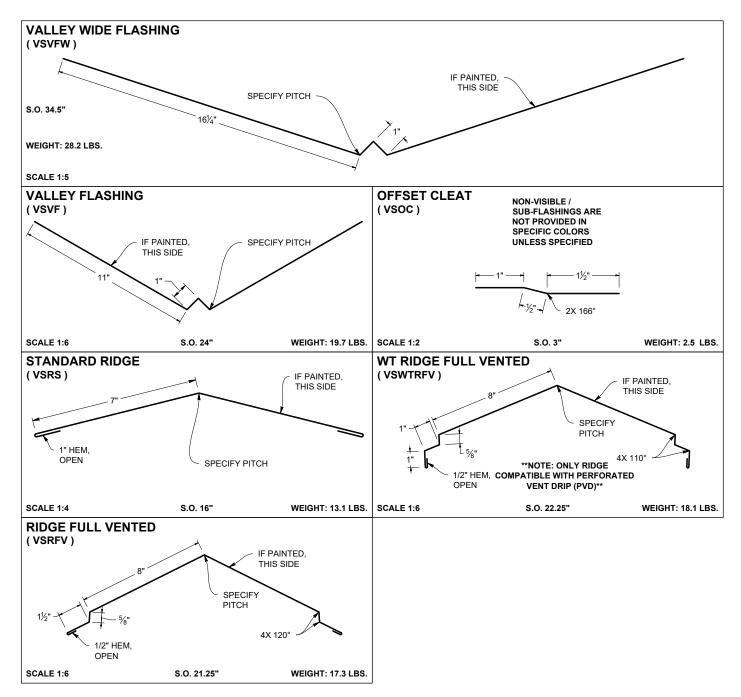
Versa-Span TM Flashing and Details Selection

Flashing: 10' Standard

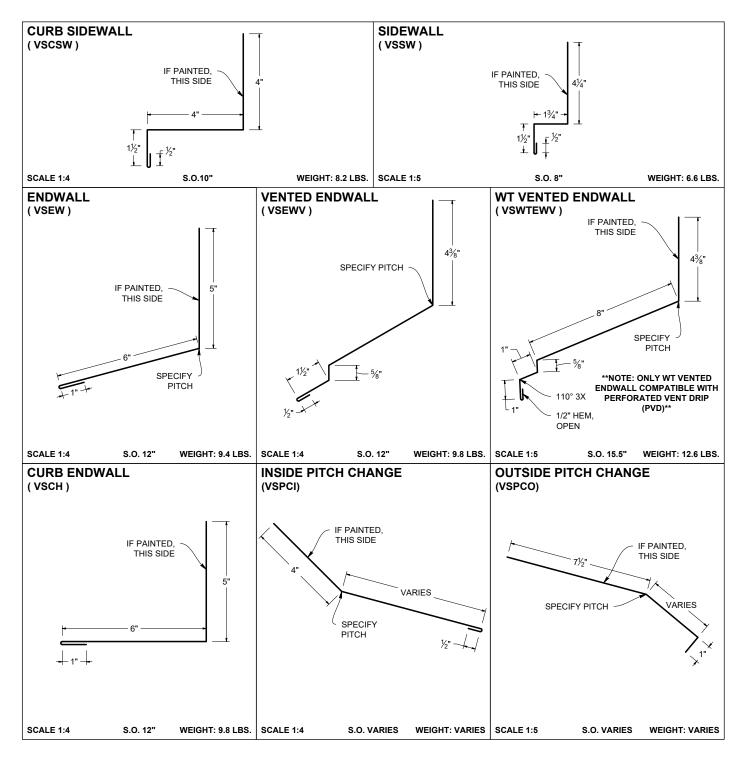




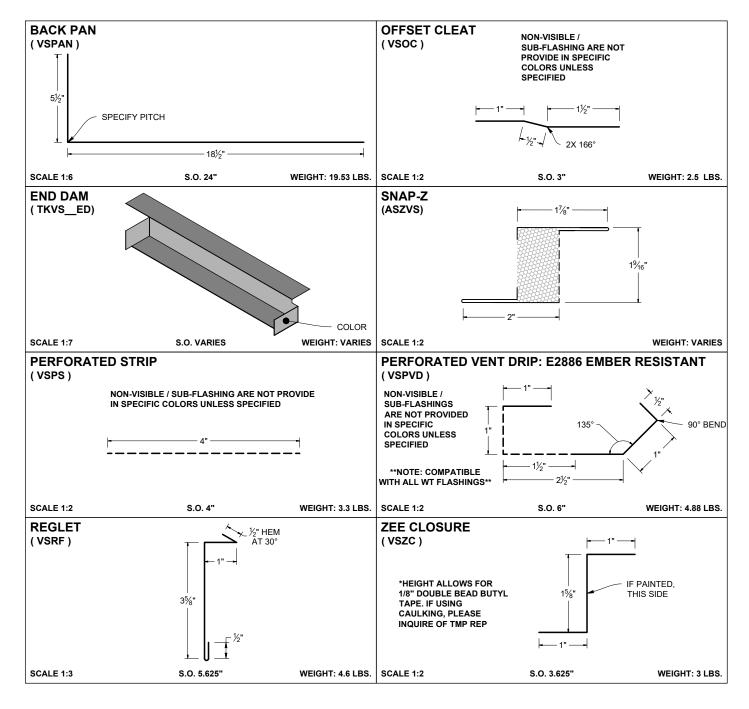












			()rder	For		Inside Sal	e:	
		YLOR					der □ Qu	ote	
META	L PRO	DUCTS	PO #:			_ Date:_			
Sold To:	_								
Order Co	ntact:			_					
Phone #: Fax #:	_						☐ Delivery _ Delivery Date	- -	
I —	 ultural		Residen	— tial		Comme			
are in B PBR Marion Max Co	d Panels old font. "R" Panel orr	Notched? \\ Notched A \\ Screw Con	th * need Pattern Striations //N Clip Relief? ND Tabbed? Y / N (REQ cealer? Y / N (Standard for 2" Easy-Lock* 6" Easy-Lock*	Flat (Flat r on S	lant? <u>Y</u> / <u>N</u> r EasyLock & Stread	mLine)	5 5/8" Slim-Lock* 2" MS-200* 4" MS-200* 6" MS-200* 8" MS-200* 2" MS-150*	Color: Pitch: Gauge: Dmatch: Pallet: 10'	20' 30'
Classic GR-7 HR-34 T-3 Tuff-Rib	7/8" Corruga	Panels wit	6" StreamLine* h ** need Pattern ns Flat 1 (Available on Lifetime So	1"x 12 " Life Choice: V-Groove	etime Soffit	**	6" MS-150* 0" MS-150* 3" MS-100* 7" MS-100* ther Panel:	☐ 14" Versa ☐ 16" Versa ☐ 18" Versa ☐ 14 5/8" T-	-Span* a-Span*
Panel & Flashing Items	*All Kynar Slii	m-Lock, Easy-Lo		oothWall, Shado			MS-100, MS-150, & MS are 12'6"	S-200 flashings a	are 10'
Quantity	Length	Item [Description	Part #	Quantity	Length Item Desc		ription	Part #
					 				
				 					
					1				
							<u> </u>		

Screws? Salem, OR 97301 4566 Ridge Dr NE • F: 503-581-6877 P: 503-581-8338 • www.taylormetal.com

Clips?

Caulking?

Closures?

Underlayment?

Forgetting Anything?



Custom Trim Order

Custome	ustomer Name:							Job Name:							
Gauge: _				Color: _					_	Statu	us: □	Orig	inal 🗆	Upd	lated
Specify:	□ Angl	es 🗆	Color	Side □	Dimens	sions	□ S	tretch	out	_		(Custom	er In	itials
s.o							S.O.								
Dwg #:	Pito	ch:	# (of Pieces	:		Dwg	#:	Pit	ch:	<i>‡</i>	of Pi	eces:		
Descripti	on:						Desc	ription	า:						
Hems:					htly Oper	1	1						Slightly	у Оре	∍n
S.O							S.O.								
Dwa #	Pito	ch:	# (of Pieces			Dwg	#:	Pit	ch:	7	# of Pi	eces:		
Dwg #: Pitch: # of Pieces: Description:							Dwg #: Pitch: # of Pieces: Description:								
Hems:				———— □ Slia	htly Oper	_							Slightly	у Оре	

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

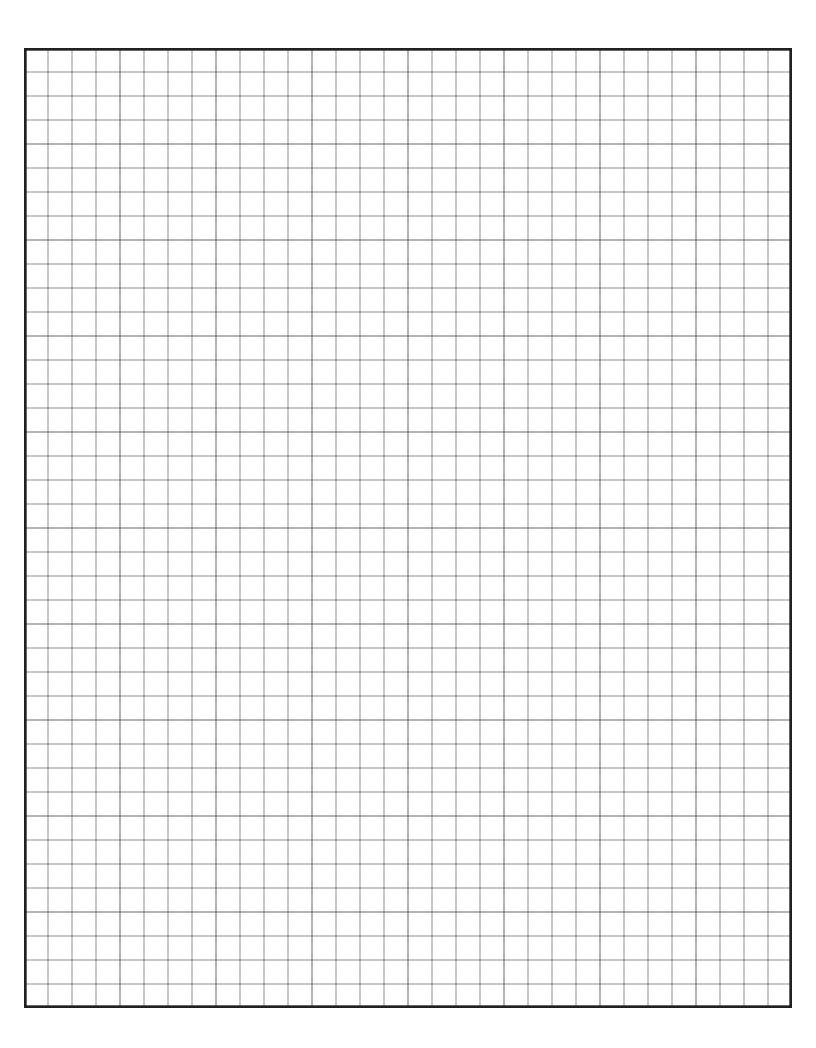
Custom Trim Order



Custome	r Name: _			Job Name:					
Gauge: _		_ Color:			Status:	□ Original □ Updated			
			Dimensions	□ Stretchou	ıt	Customer Initials			
				S.O					
		# of Pieces:				# of Pieces:			
		Closed ☐Sligh		Description: _ Hems: \(\subseteq 0		sed Slightly Open			
S.O				S.O					
Dwg #:	Pitch:	# of Pieces:		Dwg #:	Pitch:	# of Pieces:			
Description	on: Open	 losed	ntly Open	Description: _ Hems: □O	pen □Clo	sed			

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