

## Premier-Lock™ Installation Guide



## Flashing and Details Guide



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Panel Specifications	1-2
Taylor Delivery Fleet	
Delivery, Will Call & Loading	
Notes To Designer/Installer	
Standard Eave Detail	
Hook Eave Detail	9
Hook Eave with Gutter Detail	10
Standard Ridge Detail	11
Vented Ridge Detail	
Standard Valley Detail	13
Alternate Valley Detail – Low Pitch	14
Box Gable Detail	
Prow Detail	16
Sidewall Detail	17
Ridge End Cap/Peak Detail	18
Roof Pitch Change Detail	19
Hemmed End Wall Detail	20
Vented End Wall Detail	21
End Dam Detail	22
Eave to Gable Transition	23-25
Skylight/Chimney Application	26-28
Pipe Penetration – on Plate	29
Pipe Penetration – on Rib	30-31
Pipe Penetration – on Pan	32
Flashing Selection	33-37



# Premier-Lock TM STANDING SEAM

The Premier-Lock™ Standing Seam has the anti-capillary dry lock seam. It's designed with softer, less industrial lines to provide a more architecturally pleasing appearance.



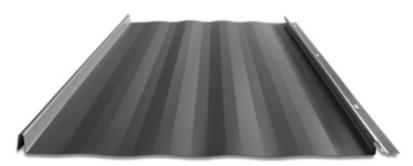
- Prevents crowning
- No visible screws required
- Sharp, professional appearance

#### **KEY FEATURES**

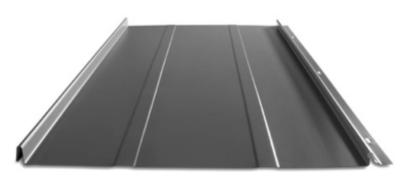
- Standard width for Premier-Lock 100 is 15.75" Standard width for Premier-Lock 150 is 14.75"
- 24 and 22 gauge Tru-Gauge™
- · Factory-notched panels available
- · Anti-Capillary dry lock seam
- Premier-Lock 100 1" rib height
- Premier-Lock 150 1-1/2" rib height
- · Concealed fasteners: fasteners cannot leak
- Pre-slotted fasteners flange: allows expansion / contraction of panel
- Code compliance UL Evaluation Report UL ER 25913-01
- Clip-Lock 150 UL 580 Class 90 Wind Uplift rated, UL 790 Class A Fire rated w/ wind uplift assemblies, UL 2218 Class 4 Impact (hail) rated
- ASTM 283, ASTM 330, ASTM 331, ASTM E1592
- 3:12 minimum pitch recommended (For lower pitches please inquire)
- Standard panel lengths 2' to 35' (For longer panels, please inquire)
- Panel options: Striations, Accent Ribs, and Flat Pan
- Manufactured in Sacramento, California

#### **PANEL PROFILES**



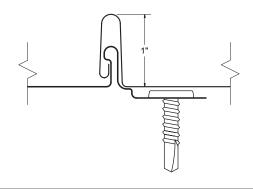


**STRIATIONS** 



ACCENT RIBS 2 or 3 Ribs available

#### **LOCK SEAM DETAIL**

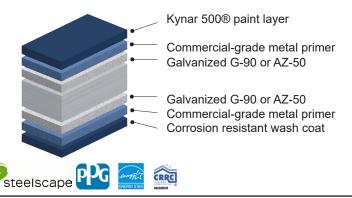


#### MATERIAL SPECIFICATIONS

- 24 gauges Kynar 500® Painted Steel .0236" (Thickness prior to painting) Galvanized G-90 or AZ-50
- 4 & 22 gauge bare Zincalume® Plus AZ-55 (No finish warranty – 25 yr. perforation warranty)
- ▲ 22 gauge Kynar 500® Painted Steel .029" (Thickness prior to painting)
   Galvanized G-90 or AZ-50
- + .032" Kynar 500® Painted Aluminum
- 22 gauge Rusteel Plus™ (A606)
- 16 and 20 ounce Copper (Please inquire)
- Kynar 500® and substrate testing data available (See website)
- "Oil canning" is an inherent characteristic of roof and wall product, and not a defect, which is not a cause of panel rejection.

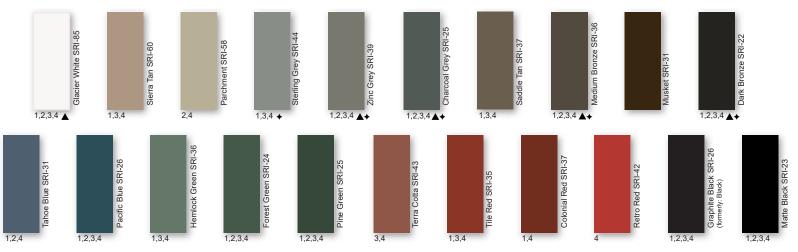
#### **KEY FEATURES**

- 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

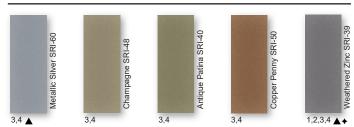


#### 40-Year Residential / 20 and 30 Year Commercial Manufacturer's Limited Warranty

#### STANDARD COOL KYNAR 500® COLORS



#### PREMIUM METALLIC COOL KYNAR® COLORS

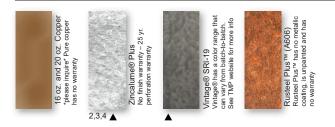


These printed chips provide a close representation of the colors.

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 E1980 and are based on actual testing.\*\*\*Oil Canning is not a cause for material rejection\*\*\*

#### SPECIALIZED MATERIAL



Premier-Lock™ 100 Panels Width LBS SQFT LBS LF Gauge Color 12-1/2" 1.34 1.29 16-3/8" 24 3 1.2 1.67 19-3/4" 24 4 1.7 1.92 19-3/4" 24 1.46 2.41 16-3/8" 0.032 0.56 0.78

ı	Premier-Lock *** 150 Panels										
	Width	Gauge	Color	Color LBS SQFT							
	11-1/2"	24	2	1.34	1.4						
	15-3/8"	24	3	1.29	1.65						
	18-3/4"	24	4	1.23	1.92						
	18-3/4"	22	<b>A</b>	1.55	2.41						
	15-3/8"	0.032	+	0.6	0.78						



## **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.





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

## <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.

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 **Premier-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.



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.

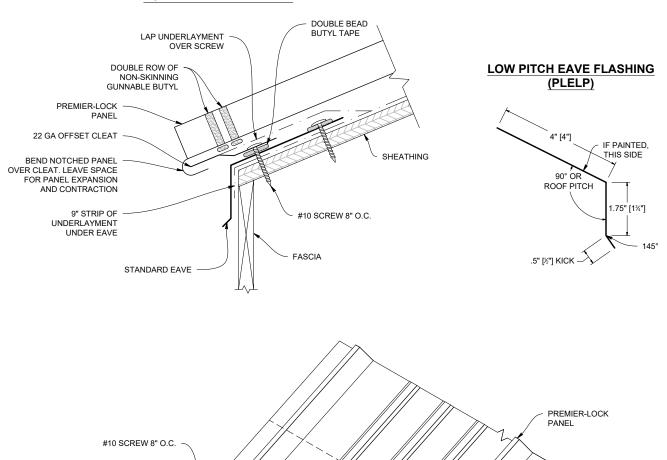
Avoid installing metal panels in windy conditions.

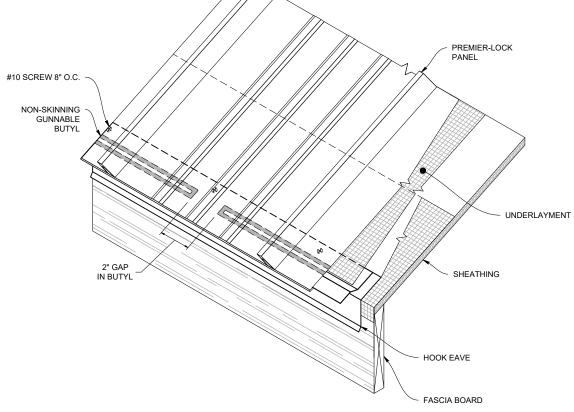
Safety considerations are the responsibility of the installer and his crew. Be sure to **use common sense** and generally accepted safety practices when installing roofing materials.

# TAYLOR METAL PRODUCTS

## **Standard Eave**

#### **LOW PITCH EAVE DETAIL**

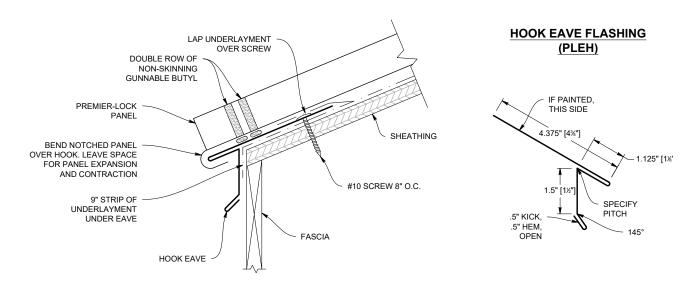


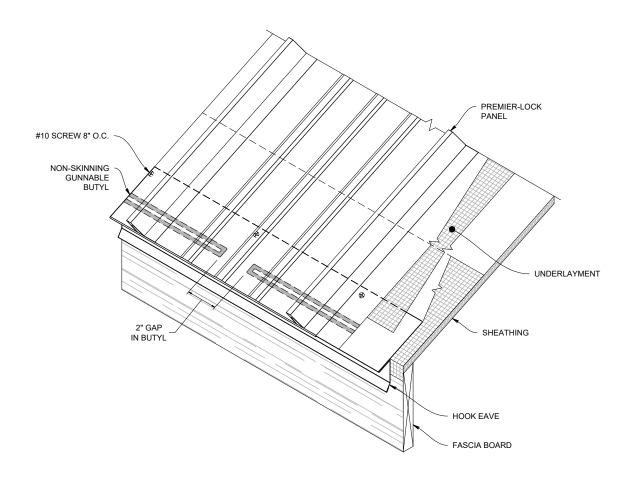






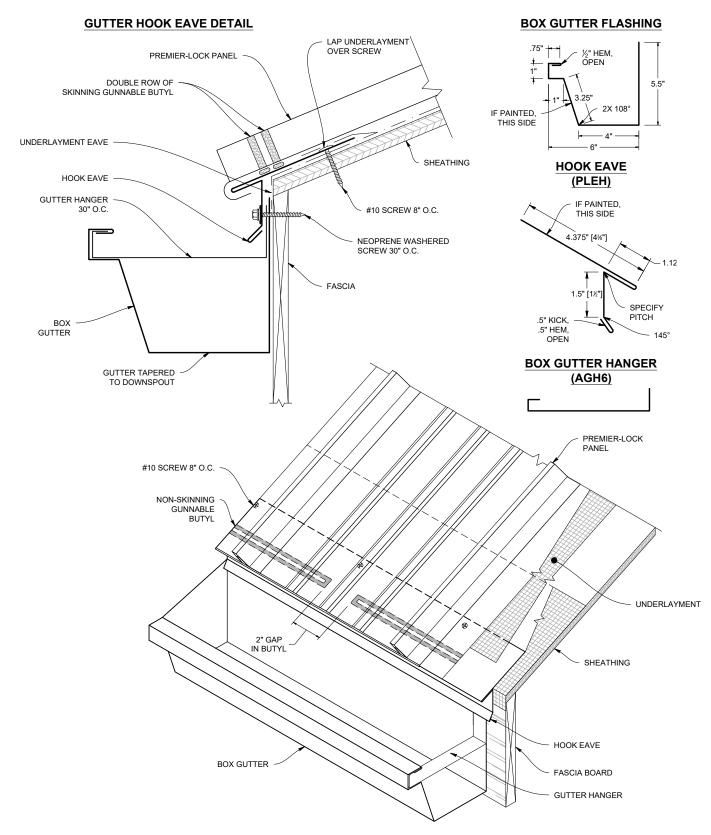
#### **HOOK EAVE DETAIL**





## **Gutter / Hook Eave**

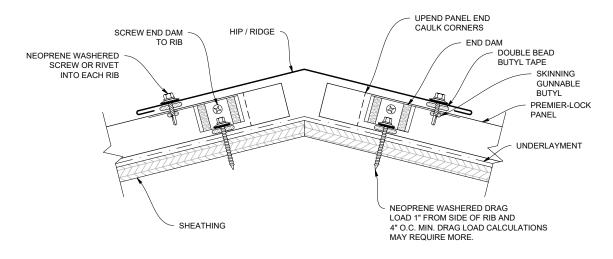




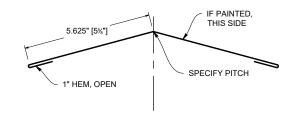
# TAYLOR METAL PRODUCTS

## **Standard Ridge**

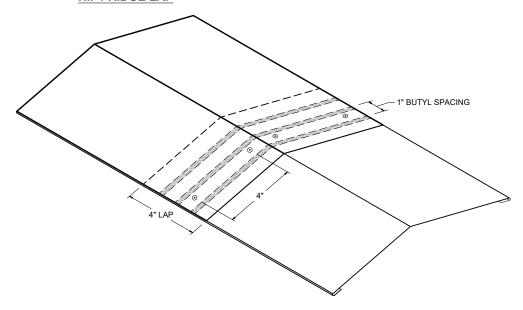
#### **HIP / RIDGE DETAIL**



## HIP / RIDGE FLASHING (PLHR)



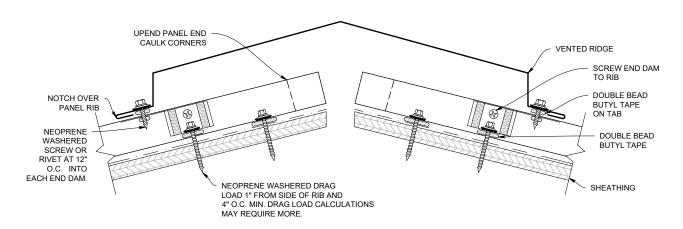
#### **HIP / RIDGE LAP**

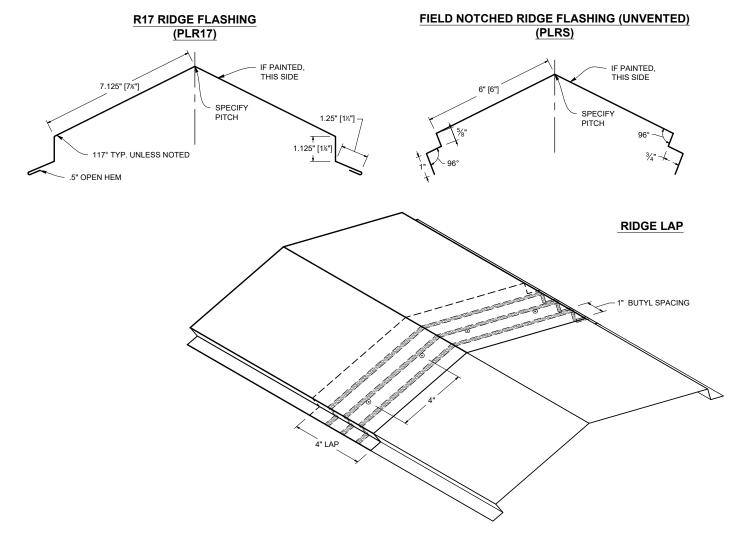


## **Vented Ridge**



#### **RIDGE W/ VENTED CLOSURE DETAIL**



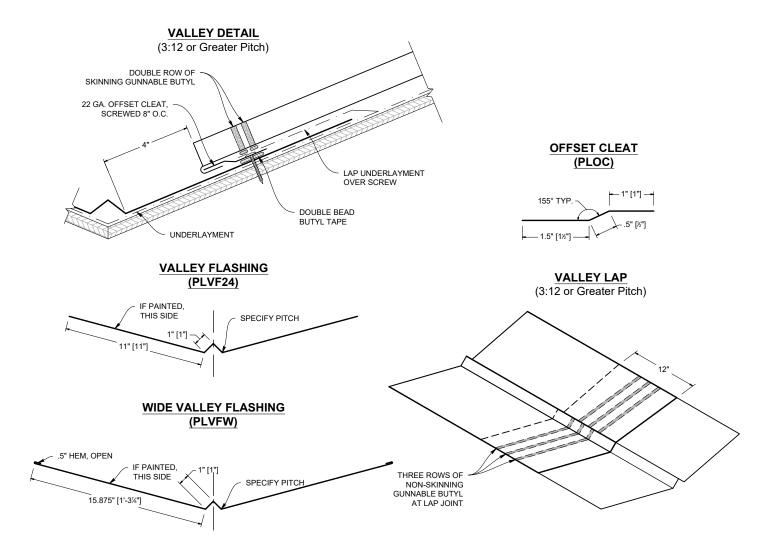


**Note:** All screws must be fastened into solid substrate. Flashing must be lapped 4" with 3 rows of gunnable butyl.

12



## Valley Flashing 3/12 slope or greater

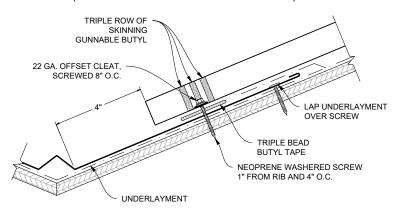


## Valley Flashing - Low Pitch Less than 1/12 slope

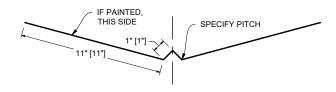


#### **VALLEY FLASHING DETAIL**

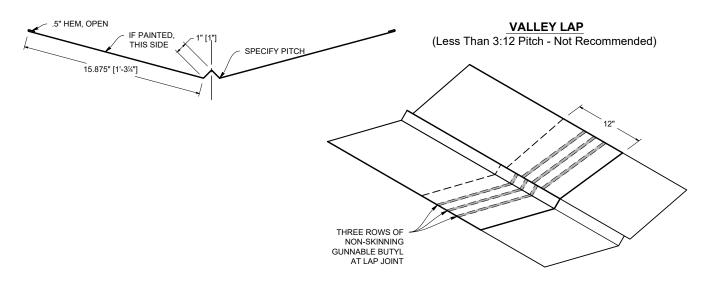
(Less Than 3:12 Pitch - Not Recommended)



#### VALLEY FLASHING 24" (PLVF24)

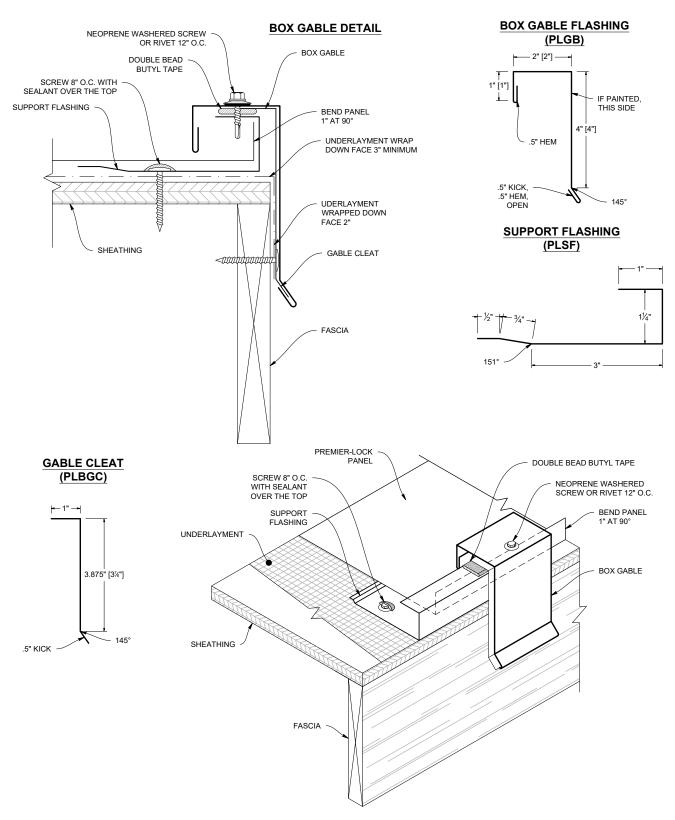


## WIDE VALLEY FLASHING (PLVFW)



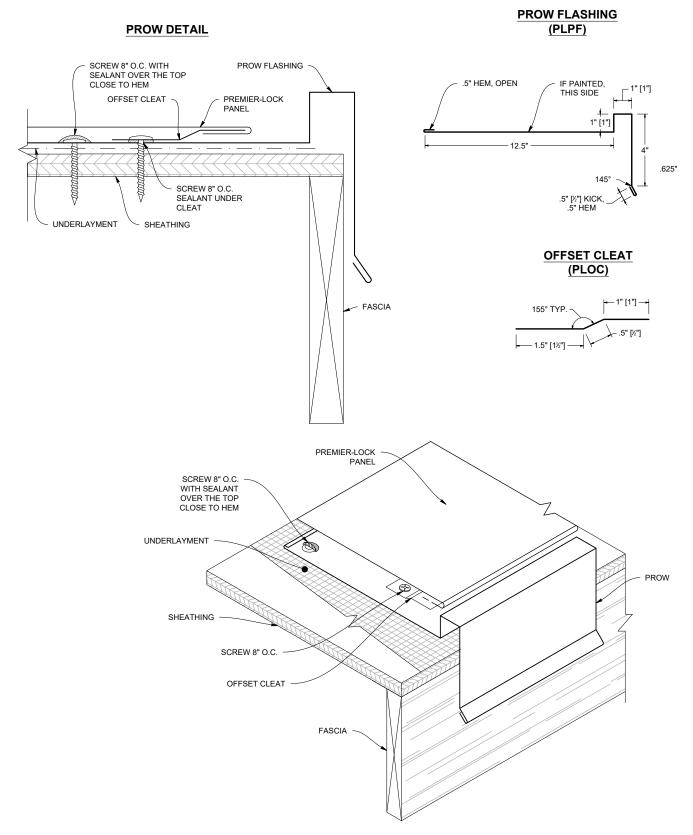


## **Box Gable**



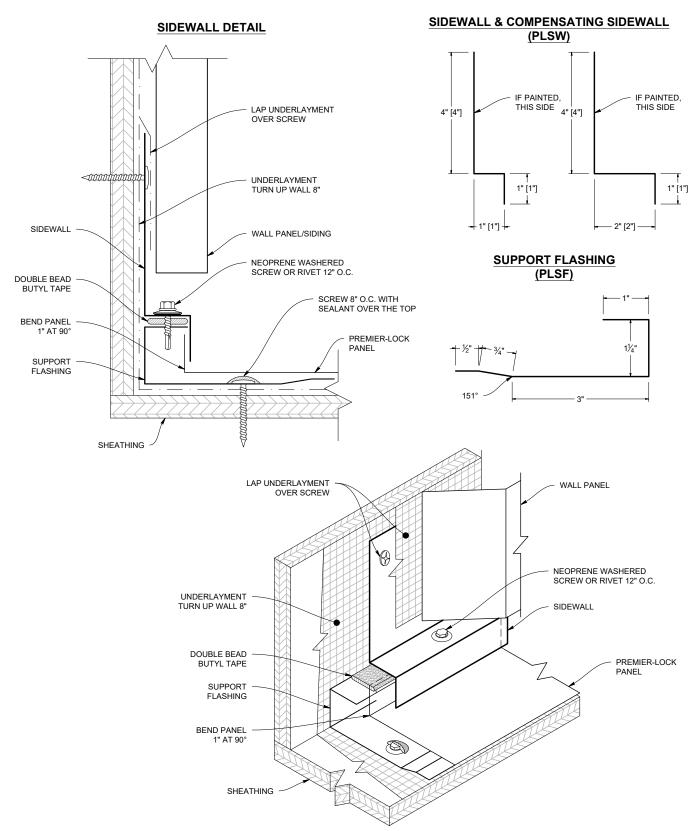
## **Prow Gable**







## Side Wall



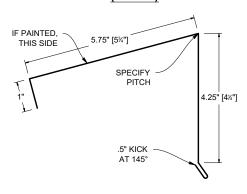
## Ridge End Cap



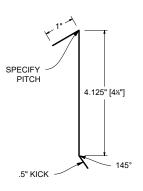
#### **PEAK FLASHING DETAIL**

#### NEOPRENE WASHERED SKINNING SCREW OR RIVET 12" O.C. INTO EACH END DAM / GUNNABLE ZEE CLOSURE BUTYL ON RIB DOUBLE BEAD BUTYL TAPE ON END RIDGE / PEAK LAP FLASHING ZEE CLOSURE / END DAM PREMIER-LOCK PANEL UNDERLAYMENT CLEAT SHEATHING NEOPRENE WASHERED DRAG LOAD 1" FROM SIDE OF RIB AND 4" O.C. MIN, DRAG LOAD CALCULATIONS MAY REQUIRE MORE

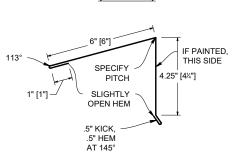
## FIELD NOTCHED PEAK FLASHING (PLREC)

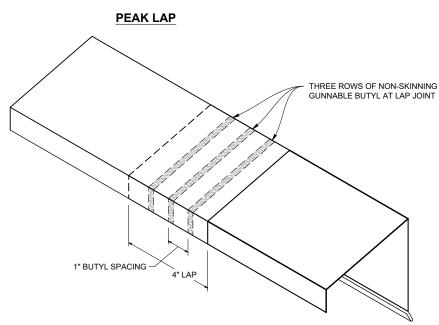


## PEAK CLEAT (PLRECC)



## HEMMED PEAK FLASHING (PLRECH)

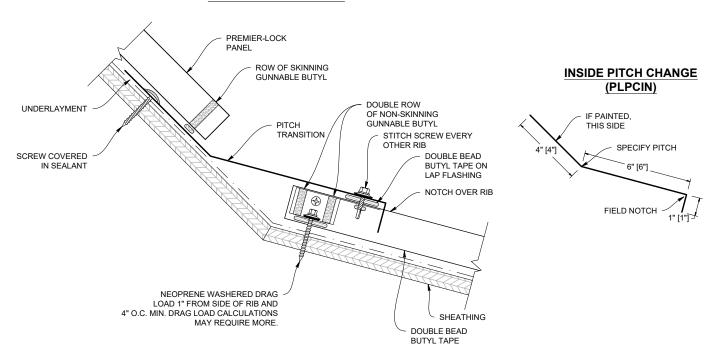






## **Pitch Transition**

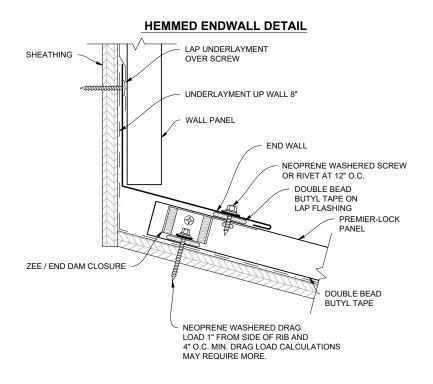
#### **PITCH CHANGE DETAIL**



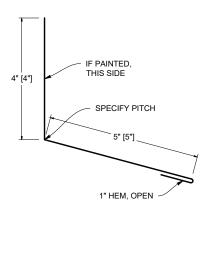
# PITCH CHANGE LAP THREE ROWS OF NON-SKINNING GUNNABLE BUTYL AT LAP JOINT 1" BUTYL GAP 4" LAP

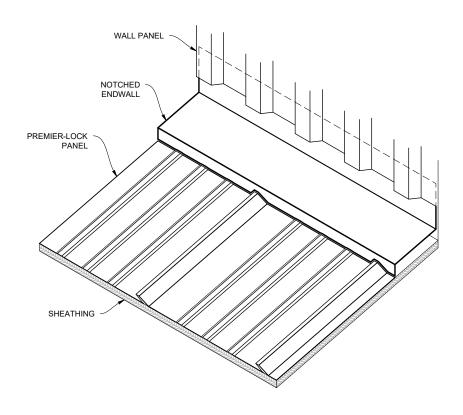
## **Hemmed Endwall**





## HEMMED ENDWALL FLASHING (PLEWH)

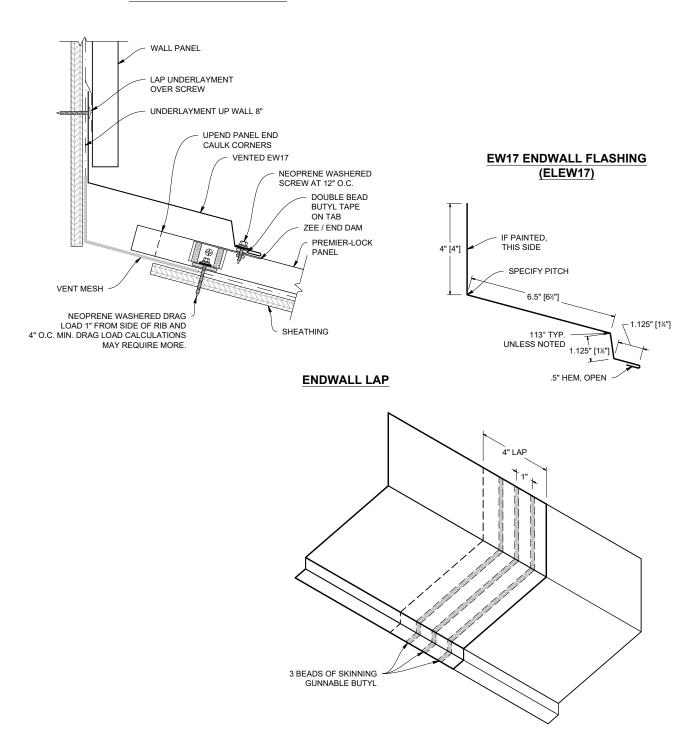




## TAYLOR METAL PRODUCTS

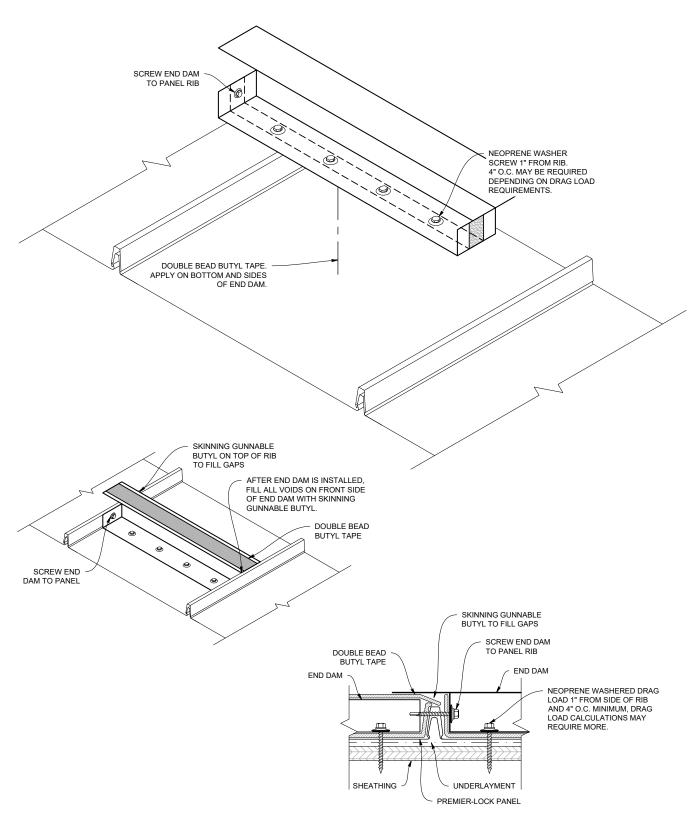
## **Vented End Wall**

#### **VENTED ENDWALL DETAIL**



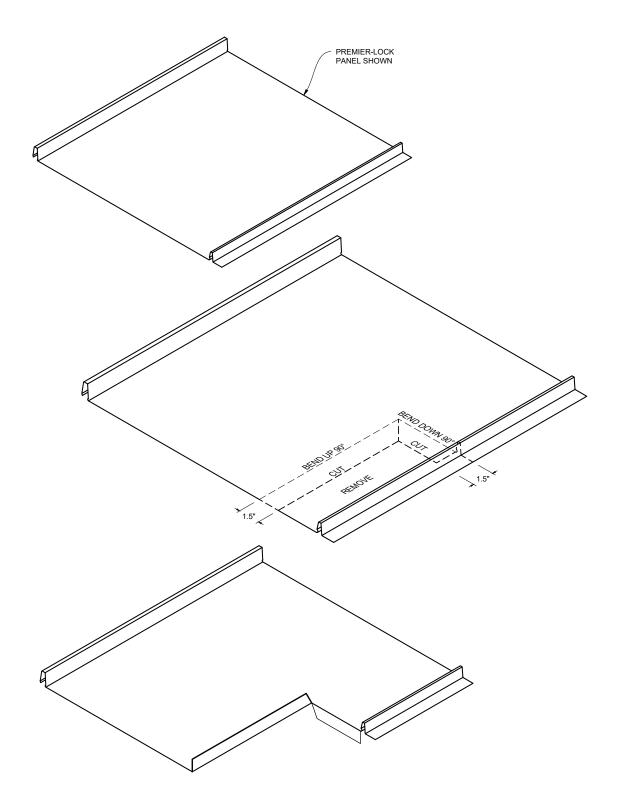
## **End Dam**





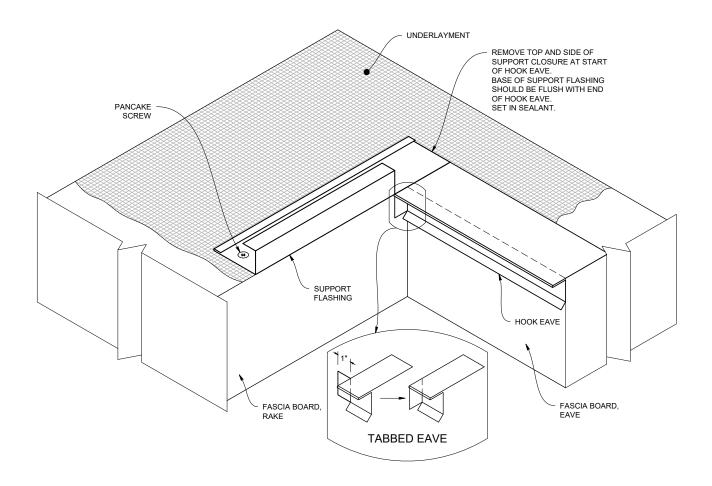


## **Eave to Gable Transition**



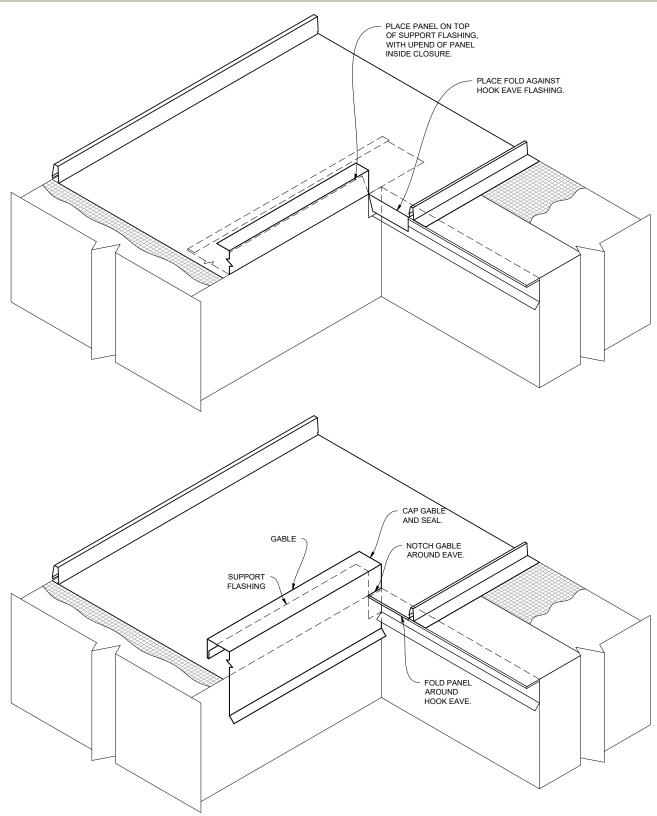
## **Eave to Gable Transition**







## **Eave to Gable Transition**



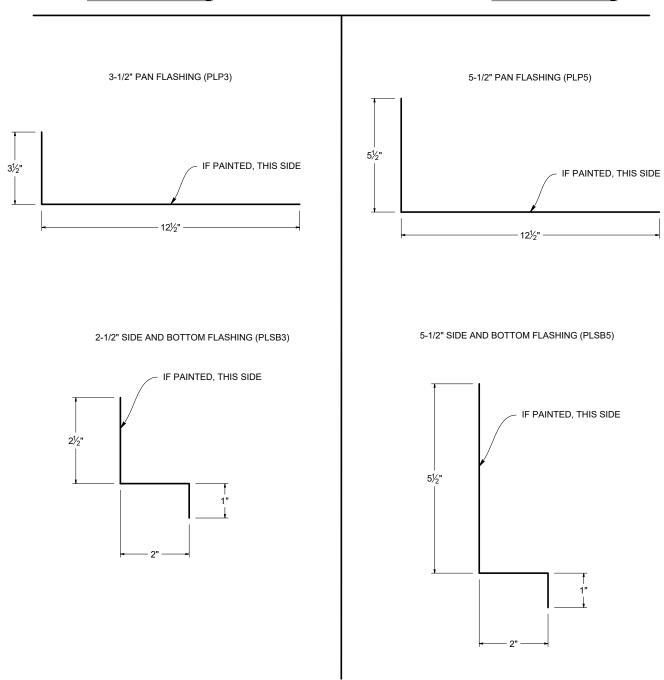
## **Skylight / Chimney**



#### **SKYLIGHT / CHIMNEY TRIM**

For 2" X 4" Curbing

For 2" X 6" Curbing



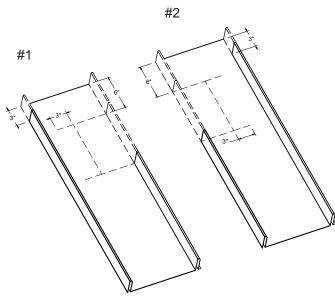


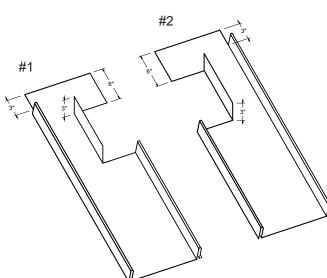
## **Skylight / Chimney**

The following instructions are applicable to most typical skylight or chimney applications. However, your individual application may be unique and require custom flashing and/or special installation. Be sure to check with the skylight manufacturer to determine recommended flashing and whether deviation will result in nullifying your warranty. The use of a cricket is advised in some situations, especially where the drainage is into a curb that exceeds 2'6", or if the roof area will have a lot of debris falling on it. Crickets are specially made to fit the curb/chimney and are used in place of the pan/head flashing. Installation information for the cricket and the pan/head flashing is the same.

#### SKYLIGHT / CHIMNEY APPLICATION

#### Dotted lines show where to cut.



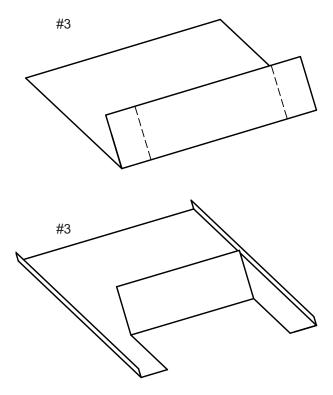


Parts shown after they have been cut and bent.

**Step 1:** Working from left to right, cut to fit, bend and install panel #1.

**Step 2:** Cut to fit, bend and install panel #2. (Install additional panels as normal, between panels #1 and #2, as needed to cover width of skylight/chimney opening).

**Step 3:** The next piece to install is the pan flashing #3. First place a bead of skinning butyl sealant on top of panel #1 and #2 to stop any water from siphoning at the joint. Next, cut and bend the pan flashing to fit. The artificial ribs should be ½" high. Set and fasten.

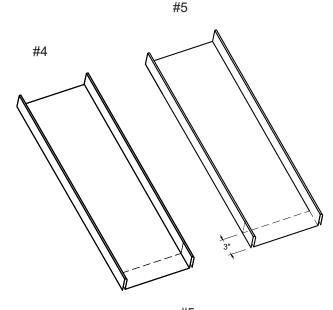


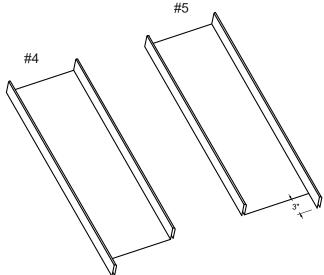
#3 is the Pan flashing. Order the proper size for the curb height of your skylight, 5-1/2" (SLP5) or 3-1/2" (SLP3).

## **Skylight / Chimney**



Dotted lines show where to cut.





Parts shown after they have been cut.

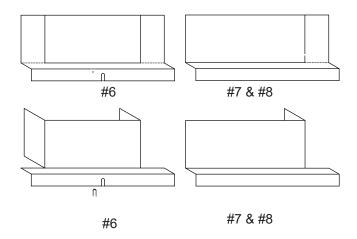
**Step 4:** Working from left to right, cut and install panel #4, snapping it into place and continue fastening as usual.

**Step 5:** Cut and install panel #5. (Install additional panels as normal, between panels #1 and #2, as needed to cover width of skylight/chimney opening).

**Step 6:** Install the bottom flashing #6 as you would the standard endwall flashing. Next, apply sidewall flashing #7 and #8 finishing off around the curb of the skylight.

Parts #6, #7 and #8 are all the Sidewall flashing (SLSW). The only difference is the way they are cut and bent on the job. Again, order the proper size curb height of your skylight.

#### Dotted lines show where to cut



Parts shown after they have been cut and bent.

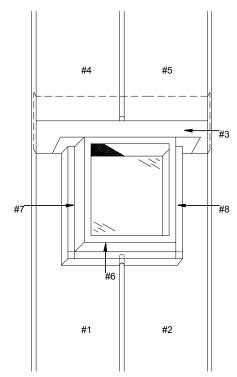


Diagram of part placement around the skylight.

Note: Skinning butyl sealant should be used at all joints and where the metal is to be overlapped.

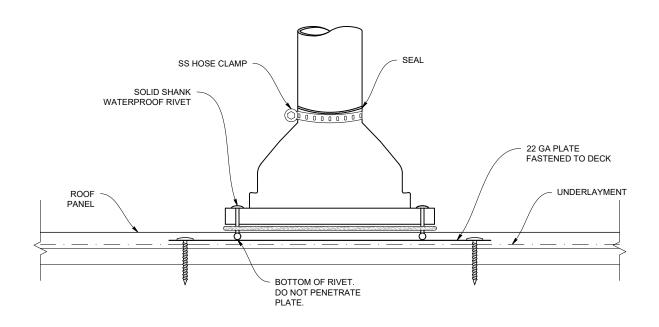
Note: The care and attention to detail that is used when installing the flashings determines the overall finished appearance.

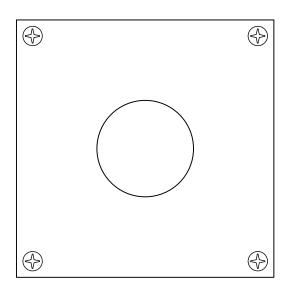
Note: The preceding information is designed as a general guideline to be used and is not the only acceptable method to flash a skylight.



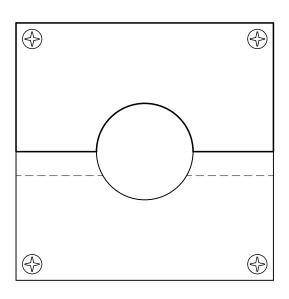
## **Pipe Penetration - on Plate**

#### FOR PIPES LOCATED 20' OR GREATER FROM PIN POINT





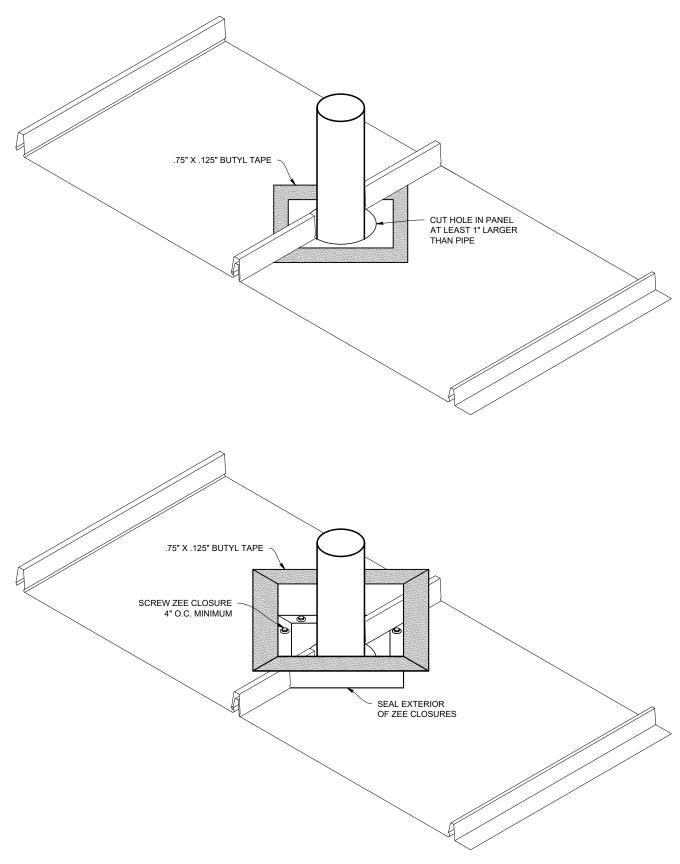




TWO OVERLAPPING 22 GAUGE PLATES

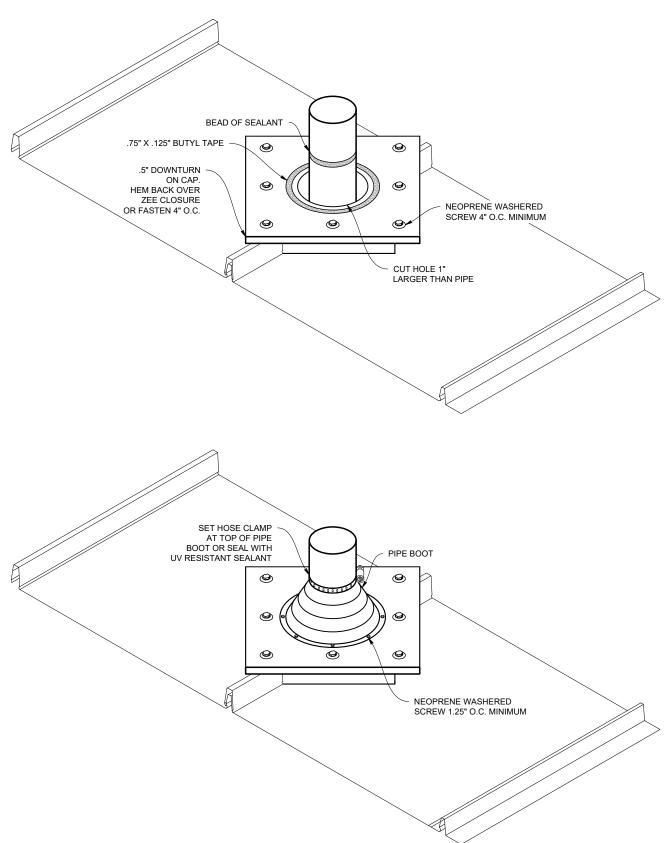
## Pipe Penetration - on Rib





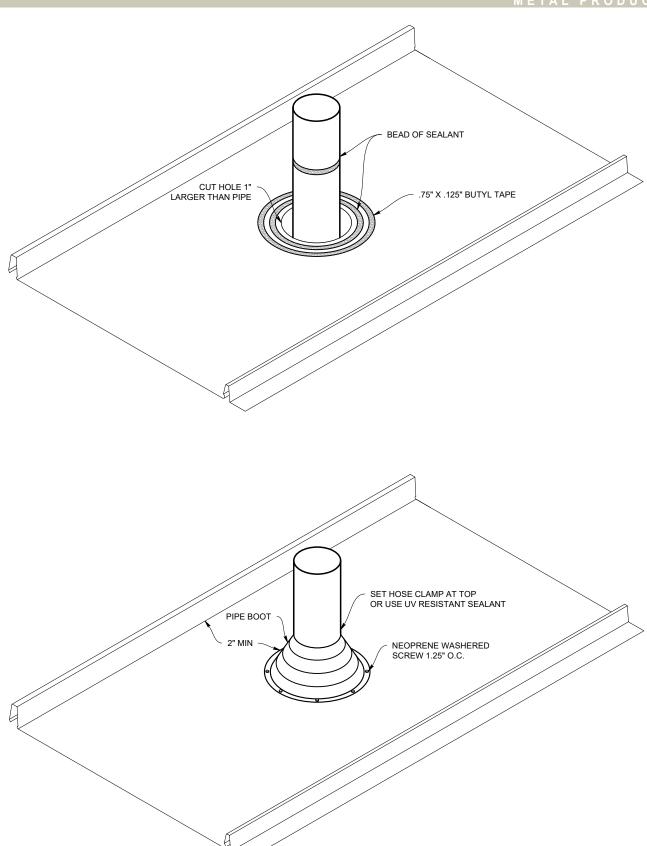


## **Pipe Penetration - on Rib**



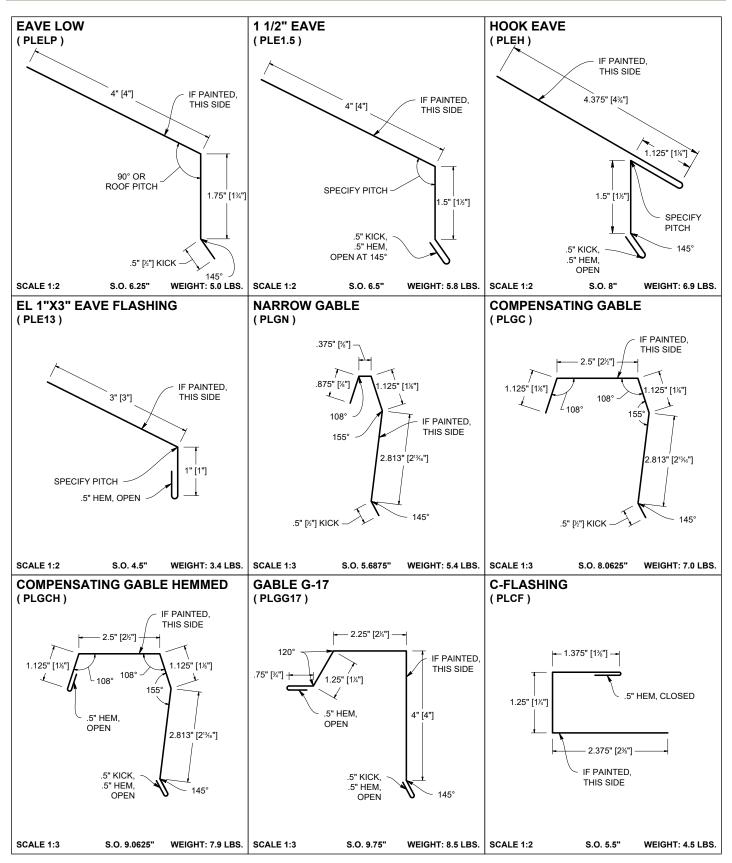
## Pipe Penetration - on Pan







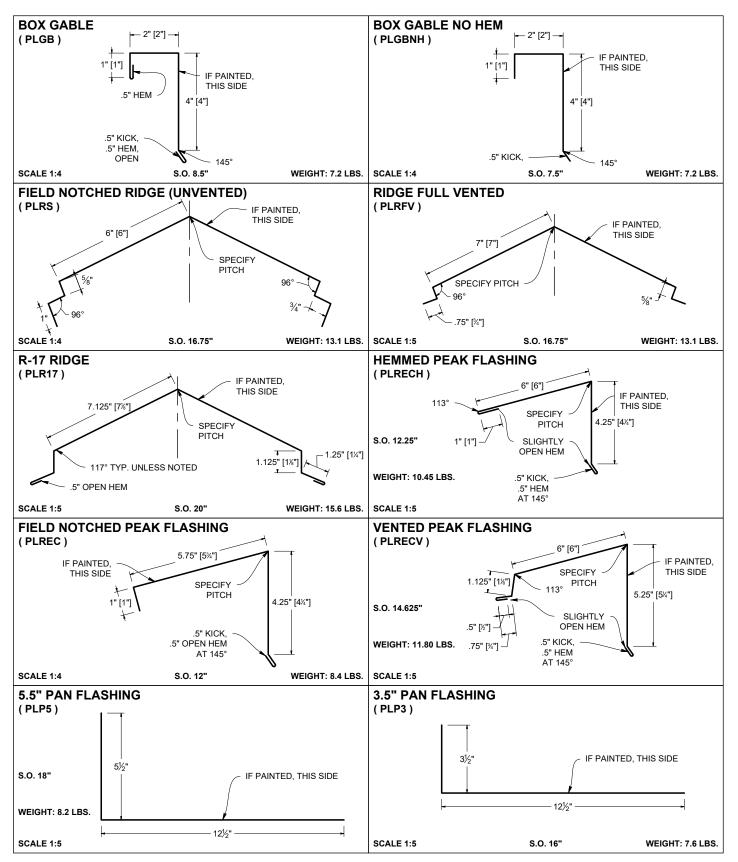
Premier-Lock TM
Flashing and Details Selection
Flashing: 10' Standard



Premier-Lock TM Flashing and Details Selection

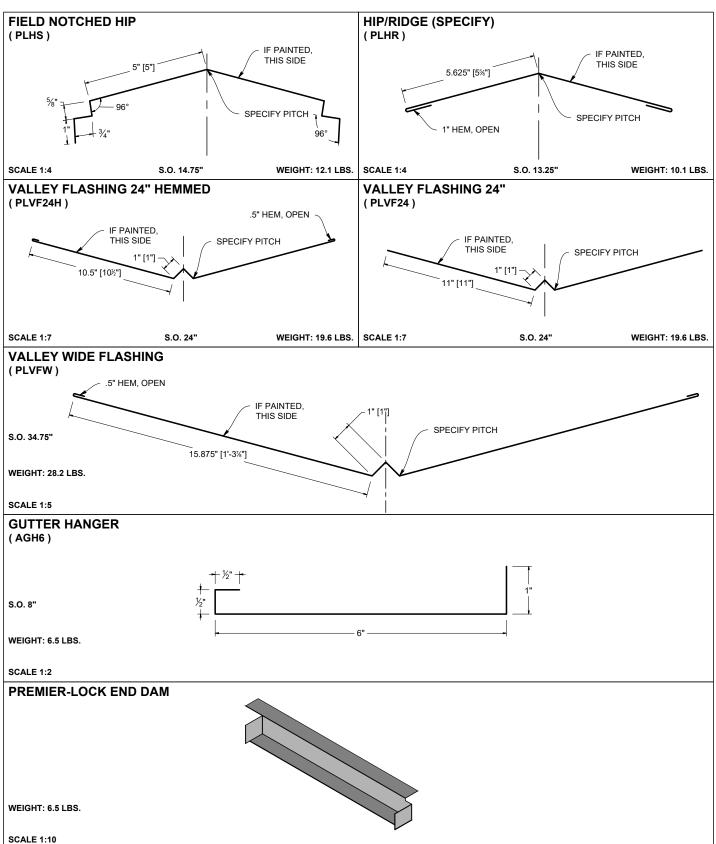
Flashing: 10' Standard







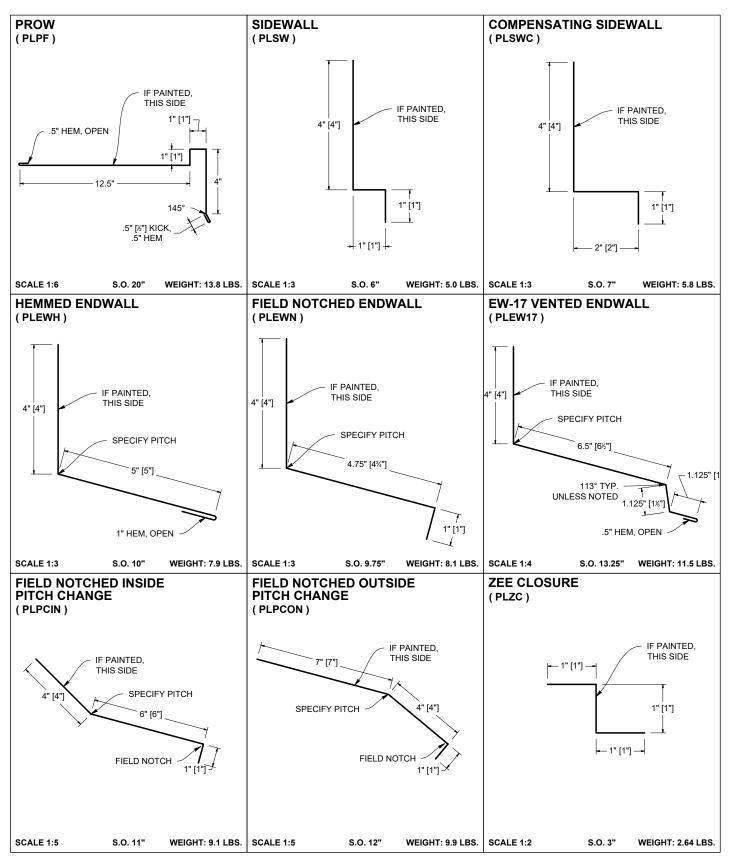
Premier-Lock TM
Flashing and Details Selection
Flashing: 10' Standard



Premier-Lock TM
Flashing and Details Selection

Flashing: 10' Standard

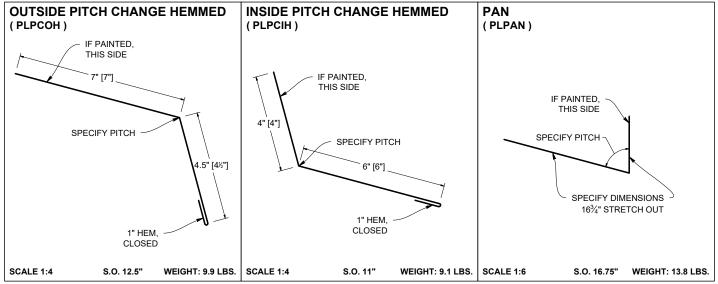




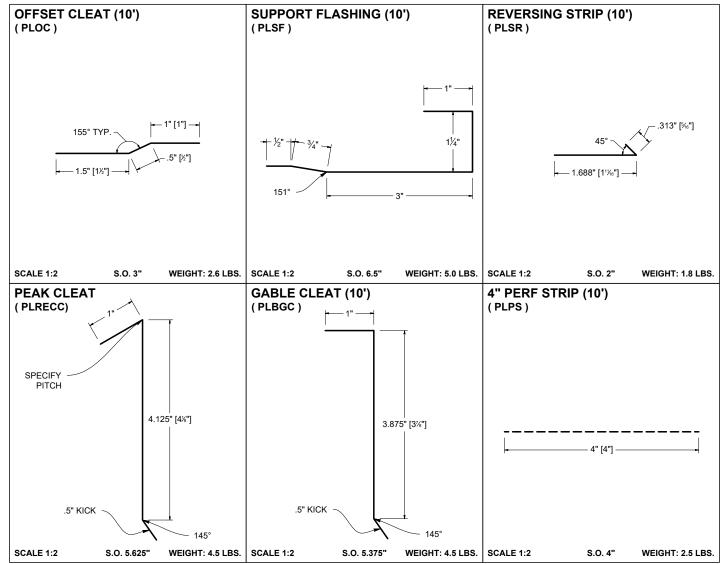


# Premier-Lock TM Flashing and Details Selection

Flashing: 10' Standard



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



							Inside	Sale:	
		YLOR <sub>г</sub>	C	)rder	For	m			
•			□ New O	rder	□ Add-	on Ord	der 🗆 (	Quote	
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Sold To:					Job Na	ame:			
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	— cultural		☐ Resident	— ial		Comme	_	Date: ute:	
£00000000000	rd Panels	Danale with *	need Pattern C			Т_		Color	
• 6	o Paneis Bold font.	│ □ Ribs □	]Striations [	ີFlat ( <sup>Flat</sup> ເ	not available) StreamLine	· · ·	<b>5 5/8" Slim-Lo</b> 2" MS-200*	Pitch:	
PBR		Notched: 1/1	Clip Relief? Y / bbed? Y / N (REQUIRE		nt? Y / N		4" MS-200*	Gauge:	
Marion	"R" Pane		? Y / N (Standard for Rib		yLock & StreamLine)	16	6" MS-200*	Dmatch:	
Max Co	orr	12" E	asy-Lock*		ne**(circle): <u>1</u> ", c	)′ <u>1-1/2</u>	B" MS-200*	Pallet: 10'	
I—	Corrugate		asy-Lock*	_	3″ Reveal: noothWall**		2" MS-150* 6" MS-150*	12" Versa-	•
GR-7	7/8" Corrug	ated16" S	dieameme =	=	etime Soffi		0" MS-150*	<b>14" Versa</b> - 16" Versa-	-
HR-34		Panels with **	* need Pattern (	-		=	3" MS-100*	18" Versa	•
		l —	□Flat □1 V	_	☐2 V-Groov	5 I =	7" MS-100*	☐ 14 5/8" T-F	Panel*
☐ Tuff-Ri	b	Perforated? (Ava	ailable on Lifetime Sof	ffit Only)			ther Panel:		
Panel & Flashing Items		im-Lock, Easy-Lock, l ch StreamLine, T-3, T						, & MS-200 flashings ar	re 10'
Quantity	Length	Item Des	cription	Part #	Quantity	Length	Item D	escription	Part #

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

Screws?

Caulking?

Closures?

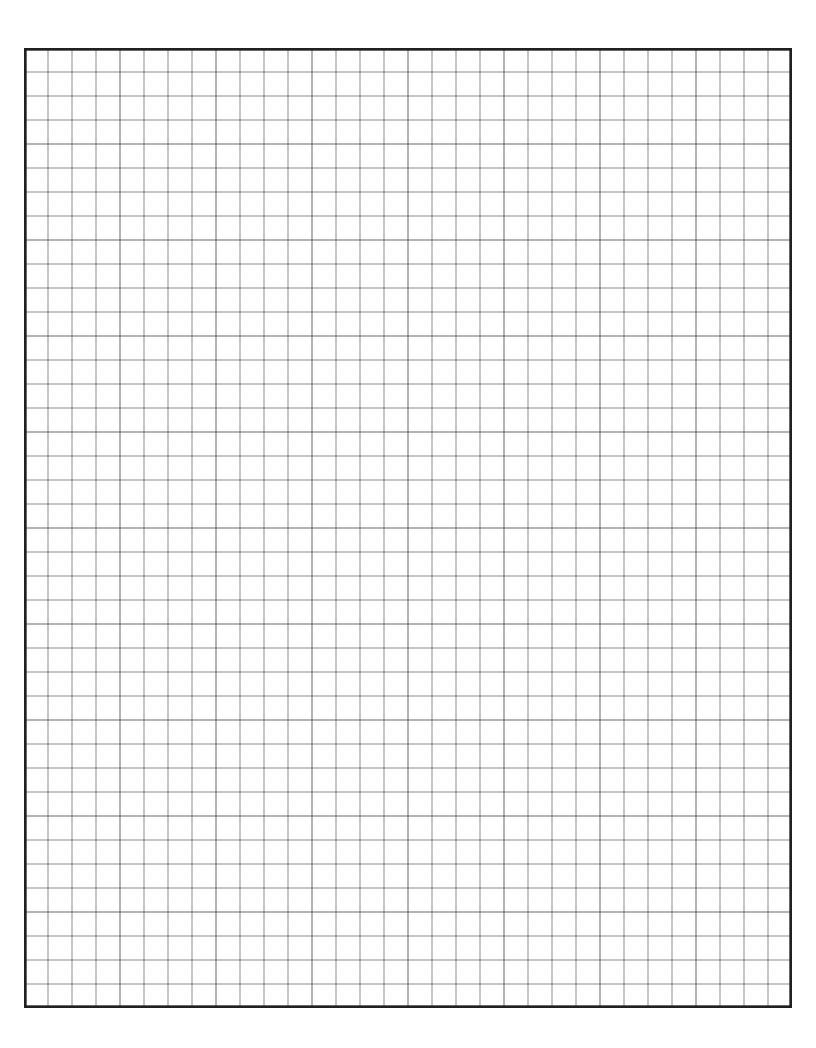


## **Custom Trim Order**

Customer Name:						Job Name:				
Gauge: .			C	olor:				□ Original □	Original   New	
Specify:	□ Angle	s 🗆 C	olor S	ide □	Dimensions	□ Stretc	hout			
30						so				
Dwg #:_	Pitch	:	# of	Pieces:		Dwg #:	Pit	ch:	# of Pieces:	
	ion:									
Hems:	Open		sed	Sligh	ntly Open	Hems:	Open	Clos	sed Slightly	/ Open
30						so				
Dwa #:	Pitch		# of	Pieces:		Dwg #:	Pit	ch:	# of Pieces:	
Dwg #: Pitch: # of Pieces:									_	
Descript	ion:					Description	лт			
Hems: □Open □Closed □Slightly Open					ntly Open	Hems:	Open	☐ Clos	sed Slightly	y Open

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





## QUALITY PRODUCTS EXCEPTIONAL SERVICE

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