

The application and detail drawings in this manual are strictly for illustration purposes and may not be applicable to all building designs or product installations. All projects should conform to applicable building codes for that particular area. It is recommended to follow all building regulations and standard industry practices.

Metal Sales Manufacturing Corporation is not responsible for the performance of the roof system if it is not installed in accordance with the suggested instructions referenced in this manual. If there is a conflict between this manual and the actual erection drawings, the erection drawings are to take precedence.

Prior to ordering and installing materials, all dimensions should be verified by field measurements.

Metal Sales reserves the right to modify, without notice, any details, recommendations or suggestions. Any questions you may have regarding proper installation of these Residential roofing systems should be directed to your local Metal Sales representative, (see pages 2 and 3).

Oil canning is not a cause for rejection. Oil canning can be described as the amount of waviness found in the flat areas of metal panels. Oil canning is an inherent characteristic of light gauge cold formed metal products, particularly those with broad flat areas. There are many factors which may contribute to oil canning that Metal Sales is not able to control. These factors include: misalignment of the support system, over driving of fasteners used on the panels, stress (whether inherent in the panel or induced), thermal expansion and contraction of the panel, improper material handling, width, gauge, length, color of panels, and improper installation (reference Metal Construction Association "Oil Canning Position Paper"- Appendix A).

Consult your local Metal Sales Branch for any additional information not outlined in this manual.

This manual is designed to be utilized as a guide when installing a Residential roofing system. It is the responsibility of the erector to ensure the safe installation of this product system.

## SAFETY

### STUDY APPLICABLE OSHA AND OTHER SAFETY REQUIREMENTS BEFORE FOLLOWING THESE INSTRUCTIONS.

The installation of metal roof systems is a dangerous procedure and should be supervised by trained knowledgeable erectors. **USE EXTREME CARE WHILE INSTALLING ROOF PANELS.** It is not possible for Metal Sales to be aware of all the possible job site situations that could cause an unsafe condition to exist. The erector of the roof system is responsible for reading these instructions and determining the safest way to install the roof system.

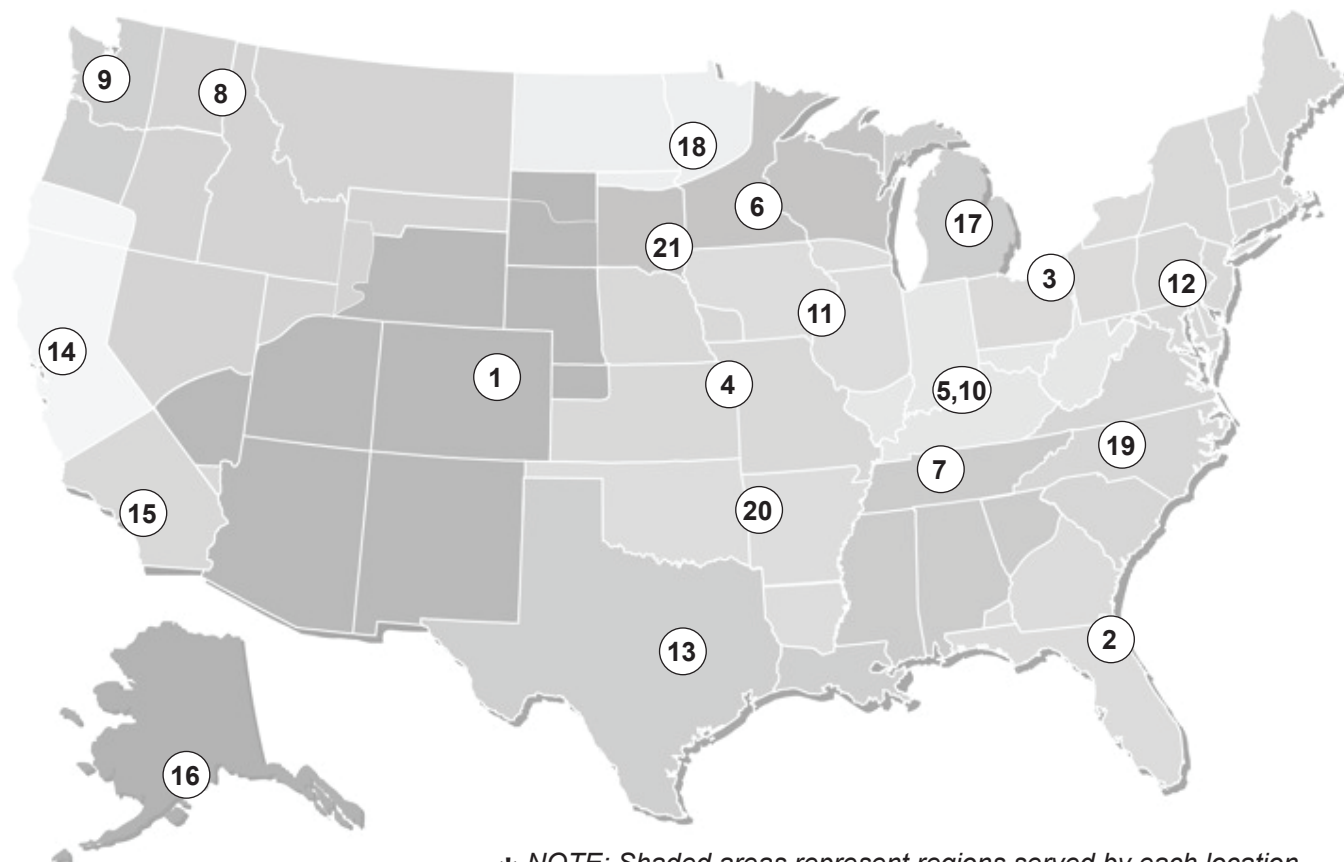
These instructions are provided only as a guide to show a knowledgeable, trained erector the correct relationship of parts to one another. If following any of the installation steps would endanger a worker, the erector should stop work and decide upon a corrective action.

Provide required safety railing, netting, or safety lines for crew members working on the roof.

Do not use the roof panel as a walking platform. The roof panels will not withstand the weight of a person standing at the edge of the panel.

Do not stand on any roof panels until the panels have been attached.

# ms Metal Sales™



\* NOTE: Shaded areas represent regions served by each location.

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**1.) DENVER BRANCH**

7990 East I-25 Frontage Road  
Longmont, CO 80504  
303.702.5440 Phone  
800.289.7663 Toll Free  
800.289.1617 Toll Free Fax

**2.) JACKSONVILLE BRANCH**

7110 Stuart Avenue  
Jacksonville, FL 32254  
904.783.3660 Phone  
800.394.4419 Toll Free  
904.783.9175 Fax  
800.413.3292 Toll Free Fax

**3.) JEFFERSON BRANCH**

352 East Erie Street  
Jefferson, OH 44047  
440.576.9070 Phone  
800.321.5833 Toll Free  
440.576.9242 Fax  
800.233.5719 Toll Free Fax

**4.) INDEPENDENCE BRANCH**

1306 South Powell Road  
Independence, MO 64057  
816.796.0900 Phone  
800.747.0012 Toll Free  
816.796.0906 Fax

**5.) SELLERSBURG BRANCH**

7800 State Road 60  
Sellersburg, IN 47172  
812.246.1866 Phone  
800.999.7777 Toll Free  
812.246.0893 Fax  
800.477.9318 Toll Free Fax

**6.) ROGERS BRANCH**

22651 Industrial Boulevard  
Rogers, MN 55374  
763.428.8080 Phone  
800.328.9316 Toll Free  
763.428.8525 Fax  
800.938.9119 Toll Free Fax

**7.) NASHVILLE BRANCH**

4314 Hurricane Creek Boulevard  
Antioch, TN 37013  
615.641.7100 Phone  
800.251.8508 Toll Free  
615.641.7118 Fax  
800.419.4372 Toll Free Fax

**8.) SPOKANE BRANCH**

2727 East Trent Avenue  
Spokane, WA 99202  
509.536.6000 Phone  
800.572.6565 Toll Free  
509.534.4427 Fax

**9.) SEATTLE BRANCH**

20213 84th Avenue, South  
Kent, WA 98032  
253.872.5750 Phone  
800.431.3470 Toll Free (Outside WA)  
800.742.7900 Toll Free (Inside WA)  
253.872.2008 Fax

**10.) NEW ALBANY BRANCH**

999 Park Place  
New Albany, IN 47150  
812.944.2733 Phone  
812.944.1418 Fax

**11.) ROCK ISLAND BRANCH**

8111 West 29th Street  
Rock Island, IL 61201  
309.787.1200 Phone  
800.747.1206 Toll Free  
309.787.1833 Fax

**12.) DEER LAKE BRANCH**

29 Pinedale Industrial Road  
Orwigsburg, PA 17961  
570.366.2020 Phone  
800.544.2577 Toll Free  
570.366.1648 Fax  
800.544.2574 Toll Free Fax

**13.) TEMPLE BRANCH**

3838 North General Bruce Drive  
Temple, TX 76501  
254.791.6650 Phone  
800.543.4415 Toll Free  
254.791.6655 Fax  
800.543.4473 Toll Free Fax

**14.) WOODLAND BRANCH**

1326 Paddock Place  
Woodland, CA 95776  
530.668.5690 Phone  
800.759.6019 Toll Free  
530.668.0901 Fax

**15.) FONTANA BRANCH**

14213 Whittram Avenue  
Fontana, CA 92335  
909.829.8618 Phone  
800.782.7953 Toll Free  
909.829.9083 Fax

**16.) ANCHORAGE BRANCH**

4637 Old Seward Highway  
Anchorage, AK 99503  
907.646.7663 Phone  
866.640.7663 Toll Free  
907.646.7664 Fax

**17.) BAY CITY BRANCH**

5209 Mackinaw Road  
Bay City, MI 48706  
989.686.5879 Phone  
888.777.7640 Toll Free  
989.686.5870 Fax  
888.777.0112 Toll Free Fax

**18.) DETROIT LAKES BRANCH**

1435 Egret Avenue  
Detroit Lakes, MN 56501  
218.847.2988 Phone  
888.594.1394 Toll Free  
218.847.4835 Fax  
888.594.1454 Toll Free Fax

**19.) MOCKSVILLE BRANCH**

188 Quality Drive  
Mocksville, NC 27028  
336.751.6381 Phone  
800.228.6119 Toll Free  
336.751.6301 Fax  
800.228.7916 Toll Free Fax

**20.) FORT SMITH BRANCH**

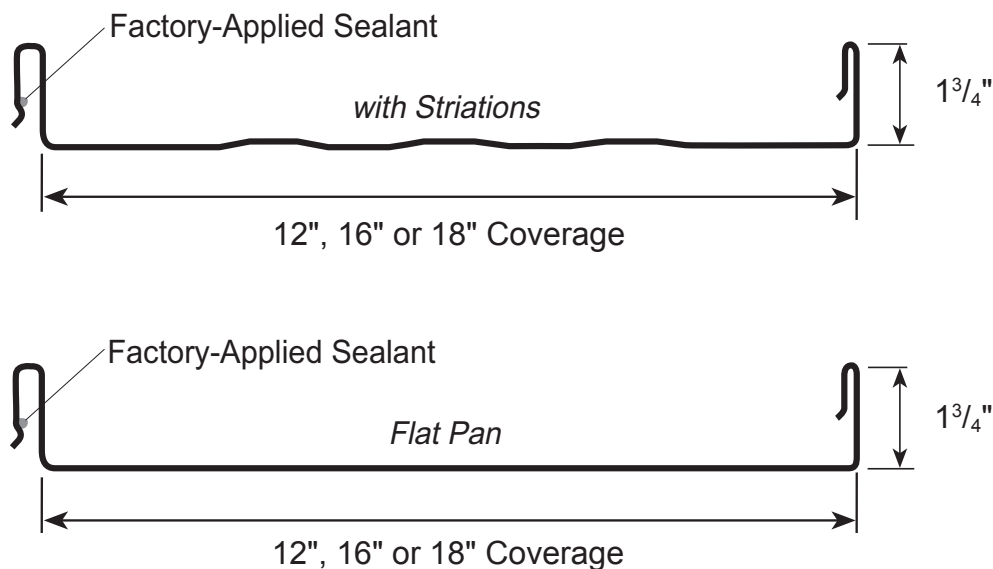
7510 Ball Road  
Fort Smith, AR 72908  
479.646.1176 Phone  
877.452.3915 Toll Free  
479.646.5204 Fax

**21.) SIOUX FALLS BRANCH**

2700 West 3rd Street, Suite 4  
Sioux Falls, SD 57104  
605.335.2745 Phone  
888.299.0024 Toll Free

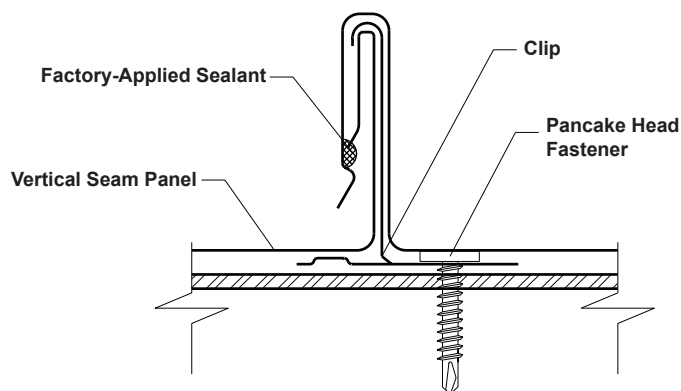
**TECHNICAL SUPPORT****TECHNICAL SERVICES**

545 South 3rd Street, Suite 200  
Louisville, KY 40202  
502.855.4300 Phone  
800.406.7387 Toll Free  
502.855.4290 Fax  
800.944.6884 Toll Free Fax



Product No.	Coverage	Description	Gauge	Finish
2543941	12"	Striated	26	Galvalume® (ACG)
25439XX	12"	Striated	26	MS Colorfast45® Painted (CF45)
26439XX	12"	Striated	26	PVDF (Kynar 500®) Painted
2743841	12"	Flat	24	Galvalume® (ACG)
2743941	12"	Striated	24	Galvalume® (ACG)
28438XX	12"	Flat	24	PVDF (Kynar 500®) Painted
28439XX	12"	Striated	24	PVDF (Kynar 500®) Painted
2545941	16"	Striated	26	Galvalume® (ACG)
25459XX	16"	Striated	26	MS Colorfast45® Painted (CF45)
26459XX	16"	Striated	26	PVDF (Kynar 500®) Painted
2745641	16"	Flat	24	Galvalume® (ACG)
2745941	16"	Striated	24	Galvalume® (ACG)
28456XX	16"	Flat	24	PVDF (Kynar 500®) Painted
28456XX	16"	Striated	24	PVDF (Kynar 500®) Painted
2546241	18"	Striated	26	Galvalume® (ACG)
25462XX	18"	Striated	26	MS Colorfast45® Painted (CF45)
26462XX	18"	Striated	26	PVDF (Kynar 500®) Painted
2746041	18"	Flat	24	Galvalume® (ACG)
2746241	18"	Striated	24	Galvalume® (ACG)
28460XX	18"	Flat	24	PVDF (Kynar 500®) Painted
28462XX	18"	Striated	24	PVDF (Kynar 500®) Painted

## ATTACHMENT DETAIL



## PANEL CLIPS



UL90 Clip - 2 Fasteners

## GENERAL INFORMATION

## ► Slope

The minimum recommended slope for the Vertical Seam roof panel is 3:12 over open framing and 1:12 over solid substrate.

## ► Clips

Clip spacing is based upon the spacing of structural framing members and loading requirements.

## ► Coverage

Vertical Seam panels are available in a 1<sup>3/4</sup>" seam height with a 12", 16", or 18" width coverage.

## ► Lengths

Minimum factory cut length is 5'-0". Maximum recommended panel length is 45'-0". Longer panels require additional consideration in packaging, shipping, and erection. Please consult Metal Sales for recommendations.

## ► Fasteners

The fastener selection guide should be consulted for choosing the proper fastener for specific applications. Quantity and type of fastener must meet necessary loading and code requirements.

*NOTE: All panels are subject to surface distortion due to improperly applied fasteners. Overdriven fasteners will cause stress and induce oil canning across the face of the panel at or near the point of attachment.*

## ► Availability

Finishes: in PVDF (Kynar 500®), MS Colorfast45®, and Acrylic Coated Galvalume®.

Gauges: 24 gauge or 26 gauge

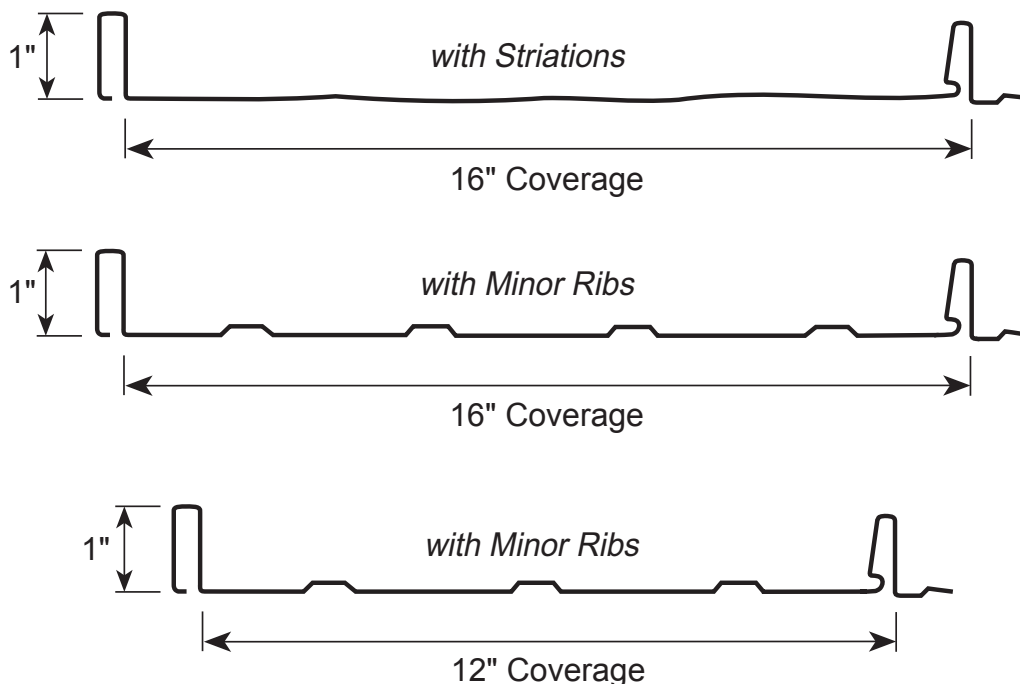
## SECTION PROPERTIES

ALLOWABLE UNIFORM LOADS, psf  
For various fastener spacings

Ga.	Width in	Yield ksi	Weight psf	Top In Compression		Bottom In Compression		Inward Load						Outward Load					
				Ixx	Sxx	Ixx	Sxx												
				in <sup>4</sup> /ft	in <sup>3</sup> /ft	in <sup>4</sup> /ft	in <sup>3</sup> /ft	2.5'	3'	3.5'	4'	4.5'	5'	2.5'	3'	3.5'	4'	4.5'	5'
26	12	50	1.06	0.0783	0.0532	0.0370	0.0405	148	104	77	59	-	-	55	49	42	36	-	-
26	16	50	0.97	0.0617	0.0403	0.0278	0.0304	114	79	58	45	-	-	55	49	42	36	-	-
26	18	50	0.94	0.0560	0.0359	0.0247	0.0270	-	-	-	-	-	-	-	-	-	-	-	-
24	12	50	1.38	0.1120	0.0777	0.0525	0.0554	204	143	105	81	64	52	44	43	42	41	40	39
24	16	50	1.26	0.0885	0.0590	0.0398	0.0416	153	107	79	61	48	39	42	38	34	30	27	24
24	18	50	1.22	0.0807	0.0527	0.0353	0.0369	136	95	70	54	43	35	33	30	27	24	20	19

- Theoretical section properties have been calculated per AISI 2016 'North American Specification for the Design of Cold-Formed Steel Structural Members'. Ixx and Sxx are effective section properties for deflection and bending.
- Allowable loads are calculated in accordance with AISI 2016 specifications considering bending, shear, combined bending and shear, deflection and ASTM E 1592 uplift testing for 24 ga and UL 580 uplift testing for 26 ga. Allowable loads consider the 3 or more equal spans condition. Allowable loads do not address web crippling, fasteners or support material. Panel weight is not considered.
- Deflection consideration is limited by a maximum deflection ratio of L/180 of span.
- Allowable loads do not include a 1/3 stress increase for wind.

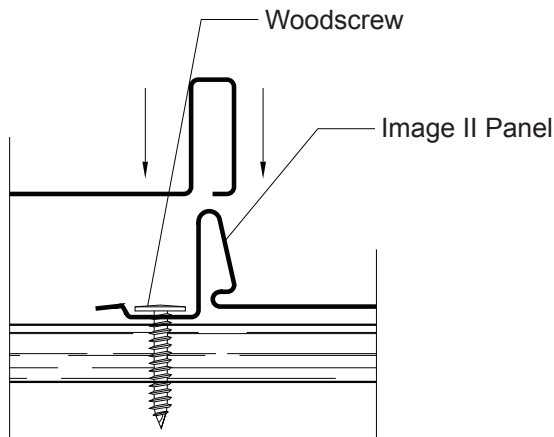
- indicates testing is not available for the application.



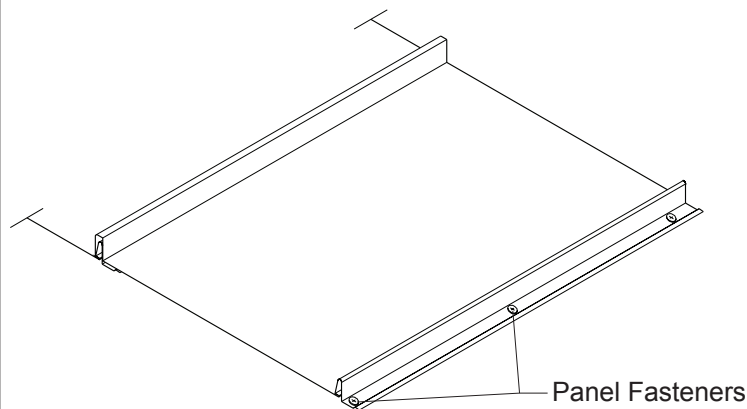
Product No.	Coverage	Description	Gauge	Finish
2544141	12"	Striated	26	Galvalume® (ACG)
2514641	12"	Minor Rib	26	Galvalume® (ACG)
25441XX	12"	Striated	26	MS Colorfast45® Painted (CF45)
25146XX	12"	Minor Rib	26	MS Colorfast45® Painted (CF45)
26441XX	12"	Striated	26	PVDF (Kynar 500®) Painted
2718841	12"	Striated	24	Galvalume® (ACG)
2718641	12"	Minor Rib	24	Galvalume® (ACG)
27188XX	12"	Striated	24	PVDF (Kynar 500®) Painted
27186XX	12"	Minor Rib	24	PVDF (Kynar 500®) Painted
2534641	16"	Minor Rib	26	Galvalume® (ACG)
25444XX	16"	Striated	26	MS Colorfast45® Painted (CF45)
25346XX	16"	Minor Rib	26	MS Colorfast45® Painted (CF45)
26444XX	16"	Striated	26	PVDF (Kynar 500) Painted
2718741	16"	Striated	24	Galvalume® (ACG)
2718941	16"	Minor Rib	24	Galvalume® (ACG)
27187XX	16"	Striated	24	PVDF (Kynar 500®) Painted
27189XX	16"	Minor Rib	24	PVDF (Kynar 500®) Painted



## ATTACHMENT DETAIL



## FASTENING PATTERN



## GENERAL INFORMATION

### ► Slope

The minimum recommended slope for the Image II roof panel is 3:12.

### ► Substructure

Image II is designed to be utilized over a solid substrate. To avoid panel distortion use a properly aligned and uniform substructure.

NOTE: Image II roof panels are not recommended for use over open structural framing.

### ► Coverage

Image II panels are available in a 1" seam height with a 12" or 16" width coverage.

### ► Length

Minimum factory cut length is 5'-0". Maximum recommended panel length is 30'-0". Longer panels require additional consideration in packaging, shipping, and erection. Please consult Metal Sales for recommendations.

### ► Fasteners

The fastener selection guide should be consulted for choosing the proper fastener for specific applications. Quantity and type of fastener must meet necessary loading and code requirements.

NOTE: All panels are subject to surface distortion due to improperly applied fasteners. Overdriven fasteners will cause stress and induce oil canning across the face of the panel at or near the point of attachment.

### ► Availability

Finishes: Acrylic Coated Galvalume®, MS Colorfast45®, or various PVDF (Kynar 500®) colors.

Gauges: 26 gauge or 24 gauge

## SECTION PROPERTIES

Ga.	Width in	Yield ksi	Weight psf	Top In Compression		Bottom In Compression	
				Ixx in <sup>4</sup> /ft	Sxx in <sup>3</sup> /ft	Ixx in <sup>4</sup> /ft	Sxx in <sup>3</sup> /ft
26	16	50	0.92	0.0165	0.0174	0.0165	0.0177
24	16	50	1.19	0.0210	0.0226	0.0210	0.0226

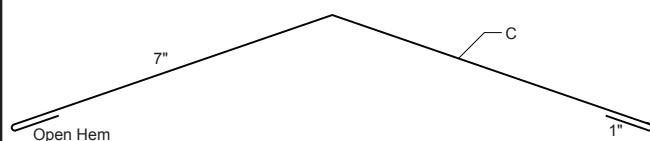
## ALLOWABLE UNIFORM LOADS, psf For various fastener spacings

Outward Load			
0'-6"	1'-0"	1'-6"	2'-0"
103	96	90	84
103	96	90	84

1. Theoretical section properties have been calculated per AISI 2016 'North American Specification for the Design of Cold-Formed Steel Structural Members'. Ixx and Sxx are effective section properties for deflection and bending.
2. Allowable loads are calculated in accordance with AISI 2016 specifications considering bending, shear, combined bending and shear, deflection and UL 580 uplift testing for 26 ga using #10-12x1" Pancakehead Wood Screw into 5/8" plywood. Allowable loads consider the 3 or more equal spans condition. Allowable loads do not address web crippling, fasteners or support material. Panel weight is not considered.
3. Deflection consideration is limited by a maximum deflection ratio of L/180 of span.
4. Allowable loads do not include a 1/3 stress increase for wind.

## 7" RIDGE/HIP COVER

Specify Pitch

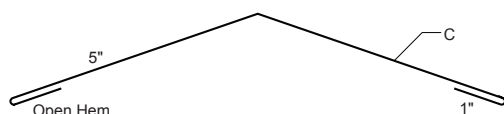


Product No.	Length	Gauge	Finish
5013141	10'-2"	26	Galvalume (ACG)
50131XX	10'-2"	26	CF45 Painted
51131XX	10'-2"	26	PVDF Painted
5213141	10'-2"	24	Galvalume (ACG)
52131XX	10'-2"	24	PVDF Painted

Flashing Stretch Out = 16"

## 5" RIDGE/HIP COVER

Specify Pitch

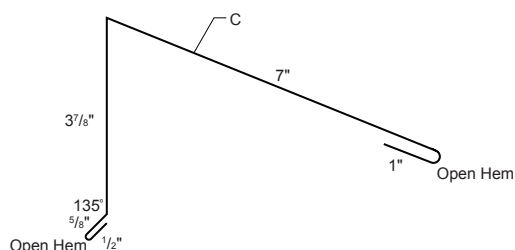


Product No.	Length	Gauge	Finish
5013041	10'-2"	26	Galvalume (ACG)
50130XX	10'-2"	26	CF45 Painted
51130XX	10'-2"	26	PVDF Painted
5213041	10'-2"	24	Galvalume (ACG)
52130XX	10'-2"	24	PVDF Painted

Flashing Stretch Out = 12"

## VERTICAL SEAM RESIDENTIAL PEAK

Specify Pitch

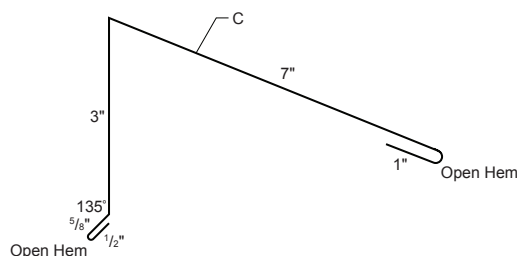


Product No.	Length	Gauge	Finish
5013341	10'-2"	26	Galvalume (ACG)
50133XX	10'-2"	26	CF45 Painted
51133XX	10'-2"	26	PVDF Painted
5213341	10'-2"	24	Galvalume (ACG)
52133XX	10'-2"	24	PVDF Painted

Flashing Stretch Out = 13"

## IMAGE II RESIDENTIAL PEAK

Specify Pitch



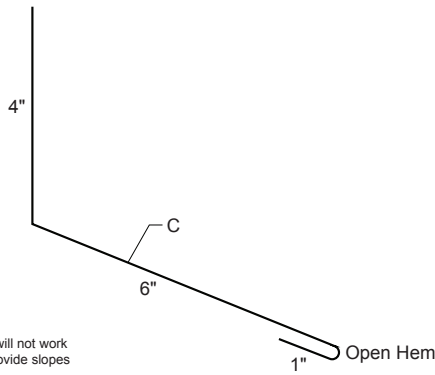
Product No.	Length	Gauge	Finish
5013441	10'-2"	26	Galvalume (ACG)
50134XX	10'-2"	26	CF45 Painted
51134XX	10'-2"	26	PVDF Painted
5213441	10'-2"	24	Galvalume (ACG)
52134XX	10'-2"	24	PVDF Painted

Flashing Stretch Out = 12 1/8"



## RESIDENTIAL PITCH BREAK

Specify Pitch

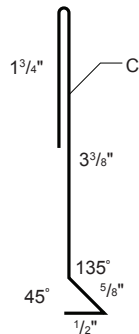


NOTE: 6" dimension will not work in all applications. Provide slopes of adjoining planes

Product No.	Length	Gauge	Finish
5394341	10'-2"	26	Galvalume (ACG)
53943XX	10'-2"	26	CF45 Painted
51143XX	10'-2"	26	PVDF Painted
5294341	10'-2"	24	Galvalume (ACG)
52943XX	10'-2"	24	PVDF Painted

Flashing Stretch Out = 11"

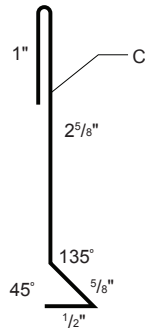
## VERTICAL SEAM RESIDENTIAL RAKE



Product No.	Length	Gauge	Finish
5012741	10'-2"	26	Galvalume (ACG)
50127XX	10'-2"	26	CF45 Painted
51127XX	10'-2"	26	PVDF Painted
5212741	10'-2"	24	Galvalume (ACG)
52127XX	10'-2"	24	PVDF Painted

Flashing Stretch Out = 6 1/4"

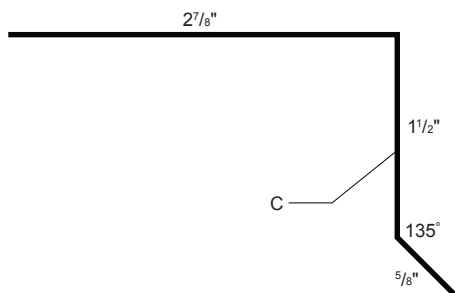
## IMAGE II RESIDENTIAL RAKE



Product No.	Length	Gauge	Finish
5102641	10'-2"	26	Galvalume (ACG)
51026XX	10'-2"	26	CF45 Painted
51126XX	10'-2"	26	PVDF Painted
5212641	10'-2"	24	Galvalume (ACG)
52126XX	10'-2"	24	PVDF Painted

Flashing Stretch Out = 4 3/4"

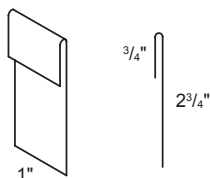
## RESIDENTIAL RAKE CLEAT



Product No.	Length	Gauge	Finish
5013241	10'-2"	26	Galvalume (ACG)
50132XX	10'-2"	26	CF45 Painted
51132XX	10'-2"	26	PVDF Painted
5213241	10'-2"	24	Galvalume (ACG)
52132XX	10'-2"	24	PVDF Painted

Flashing Stretch Out = 5"

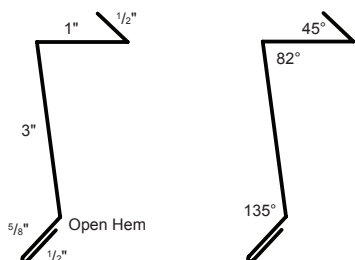
## FLAT CLEAT (Field Cut to 1" Pieces)



Product No.	Length	Gauge	Finish
5506199	10'-2"	26	Varies
5806199	10'-2"	24	Varies

Flashing Stretch Out = 3 1/2"

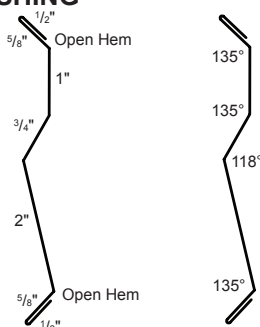
## REGLET FLASHING



Product No.	Length	Gauge	Finish
5552641	10'-2"	26	Galvalume (ACG)
55526XX	10'-2"	26	CF45 Painted
56526XX	10'-2"	26	PVDF Painted
5852641	10'-2"	24	Galvalume (ACG)
58526XX	10'-2"	24	PVDF Painted

Flashing Stretch Out = 5 5/8"

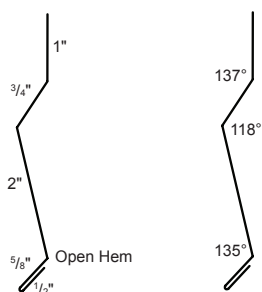
## COUNTER FLASHING



Product No.	Length	Gauge	Finish
5552741	10'-2"	26	Galvalume (ACG)
55527XX	10'-2"	26	CF45 Painted
56527XX	10'-2"	26	PVDF Painted
5852741	10'-2"	24	Galvalume (ACG)
58527XX	10'-2"	24	PVDF Painted

Flashing Stretch Out = 6"

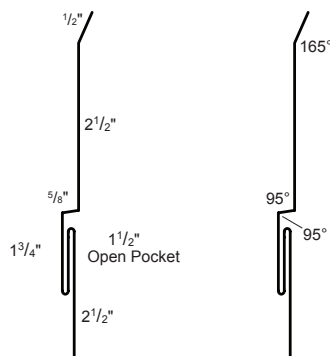
## COUNTER FLASHING FLAT



Product No.	Length	Gauge	Finish
5552841	10'-2"	26	Galvalume (ACG)
55528XX	10'-2"	26	CF45 Painted
56528XX	10'-2"	26	PVDF Painted
5852841	10'-2"	24	Galvalume (ACG)
58528XX	10'-2"	24	PVDF Painted

Flashing Stretch Out = 4 7/8"

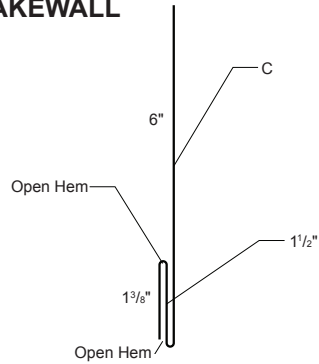
## COUNTER FLASHING RECEIVER



Product No.	Length	Gauge	Finish
5552941	10'-2"	26	Galvalume (ACG)
55529XX	10'-2"	26	CF45 Painted
56529XX	10'-2"	26	PVDF Painted
5852941	10'-2"	24	Galvalume (ACG)
58529XX	10'-2"	24	PVDF Painted

Flashing Stretch Out = 9 3/8"

## RESIDENTIAL RAKEWALL

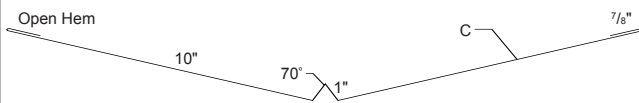


Product No.	Length	Gauge	Finish
5012941	10'-2"	26	Galvalume (ACG)
50129XX	10'-2"	26	CF45 Painted
51129XX	10'-2"	26	PVDF Painted
5212941	10'-2"	24	Galvalume (ACG)
52129XX	10'-2"	24	PVDF Painted

Flashing Stretch Out = 8<sup>7</sup>/<sub>8</sub>"

## RESIDENTIAL W-VALLEY

Specify Pitch

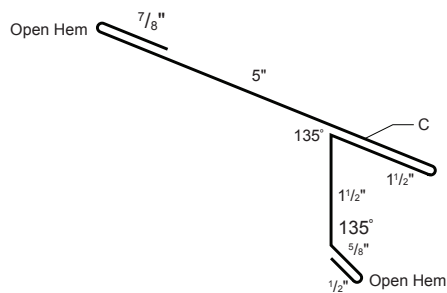


Product No.	Length	Gauge	Finish
5013641	10'-2"	26	Galvalume (ACG)
50136XX	10'-2"	26	CF45 Painted
51136XX	10'-2"	26	PVDF Painted
5213641	10'-2"	24	Galvalume (ACG)
52136XX	10'-2"	24	PVDF Painted

Flashing Stretch Out = 23<sup>3</sup>/<sub>4</sub>"

## RESIDENTIAL EXTENDED EAVE

Specify Pitch

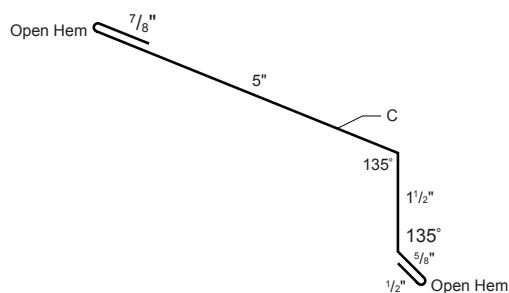


Product No.	Length	Gauge	Finish
5102441	10'-2"	26	Galvalume (ACG)
51024XX	10'-2"	26	CF45 Painted
51124XX	10'-2"	26	PVDF Painted
5212441	10'-2"	24	Galvalume (ACG)
52124XX	10'-2"	24	PVDF Painted

Flashing Stretch Out = 10"

## RESIDENTIAL EAVE

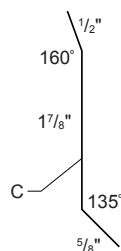
Specify Pitch



Product No.	Length	Gauge	Finish
5002241	10'-2"	26	Galvalume (ACG)
50022XX	10'-2"	26	CF45 Painted
51122XX	10'-2"	26	PVDF Painted
5202241	10'-2"	24	Galvalume (ACG)
52022XX	10'-2"	24	PVDF Painted

Flashing Stretch Out = 8<sup>1</sup>/<sub>2</sub>"

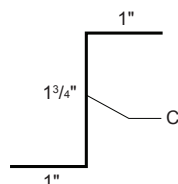
## RESIDENTIAL CLEAT



Product No.	Length	Gauge	Finish
5013599	10'-2"	26	Varies
5213599	10'-2"	24	Varies

Flashing Stretch Out = 3"

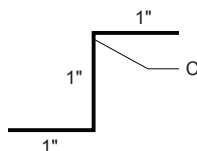
## VERTICAL SEAM Z-CLOSURE



Product No.	Length	Gauge	Finish
5570241	10'-2"	26	Galvalume (ACG)
55702XX	10'-2"	26	CF45 Painted
56702XX	10'-2"	26	PVDF Painted
5870241	10'-2"	24	Galvalume (ACG)
58702XX	10'-2"	24	PVDF Painted

Flashing Stretch Out = 3<sup>3</sup>/<sub>4</sub>"

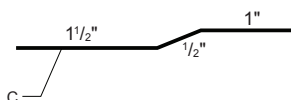
## IMAGE II Z-CLOSURE



Product No.	Length	Gauge	Finish
5560341	10'-2"	26	Galvalume (ACG)
55603XX	10'-2"	26	CF45 Painted
56603XX	10'-2"	26	PVDF Painted
5860341	10'-2"	24	Galvalume (ACG)
58603XX	10'-2"	24	PVDF Painted

Flashing Stretch Out = 3"

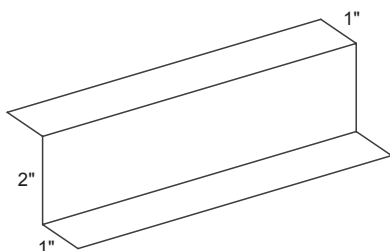
## OFFSET CLEAT



Product No.	Length	Gauge	Finish
5506499	10'-2"	26	Varies
5806499	10'-2"	24	Varies

Flashing Stretch Out = 3"

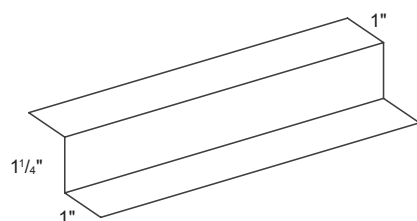
## VERTICAL SEAM END CAP



Product No.	Length	Gauge	Finish
5011041	10'-2"	26	Galvalume (ACG)
50110XX	10'-2"	26	CF45 Painted
51110XX	10'-2"	26	PVDF Painted
5211041	10'-2"	24	Galvalume (ACG)
52110XX	10'-2"	24	PVDF Painted

Flashing Stretch Out = 4"

## IMAGE II END CAP



Product No.	Length	Gauge	Finish
5011141	10'-2"	26	Galvalume (ACG)
50111XX	10'-2"	26	CF45 Painted
51111XX	10'-2"	26	PVDF Painted
5211141	10'-2"	24	Galvalume (ACG)
52111XX	10'-2"	24	PVDF Painted

Flashing Stretch Out = 3<sup>1</sup>/<sub>4</sub>"

## VERTICAL SEAM CLIP



Product No.	Height	Weight/Ea	Finish
4923565	1 <sup>3</sup> / <sub>4</sub> "	0.15 lbs	Galvanized

## PROFILE VENT



Product No.	Panel Profile	Length	Type
6462118	16" Vertical Seam	100'	Notched
6462119	18" Vertical Seam	100'	Notched
6441799	12" Image II	100'	Notched
6441898	16" Image II	50'	Notched
6441899	16" Image II	100'	Notched

## PROFILE VENT CLIPS



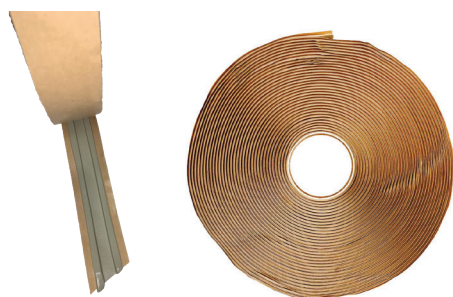
Product No.	Length	Height	Finish
6541000	Vertical Seam	1 <sup>3</sup> / <sub>4</sub> "	Black
6540000	Image II	1"	Black

## TUBE SEALANT



Product No.	Length	Weight	Finish
6403200	Acrylic Tube Sealant	3.31 lbs	Clear
64032XX	Tube Sealant	3.31 lbs	Color Match

## DOUBLE BEAD TAPE SEALANT



Product No.	Length	Weight	Color
6403899	25'-0"	1.75 lbs	Gray

## 20" DUAL BAR FOLDER/HEMMER

Product No.

6531299



## TURBO SHEARS

Product No.

6534599



## VERSA HEMMER

Product No.

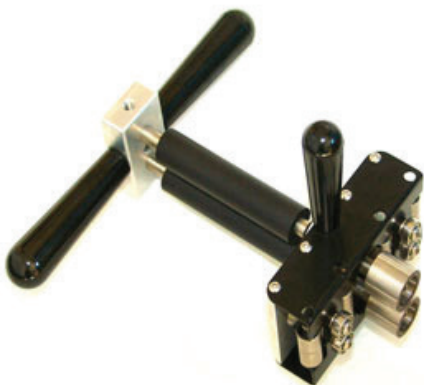
6531499



## VERSA BENDER SINGLE

Product No.

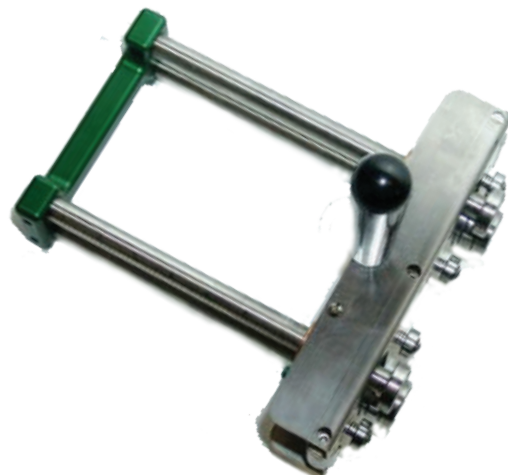
6531599



## VERSA BENDER DOUBLE STATION

Product No.

6531699



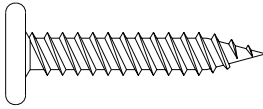


## POP RIVET



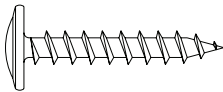
Product No.	Description	WT/250	Finish
8240901	1/8" x 3/16" Stainless Steel	0.75 lbs	Bare
82409XX	1/8" x 3/16" Stainless Steel	0.75 lbs	Painted

## PANCAKE HEAD WOOD SCREW



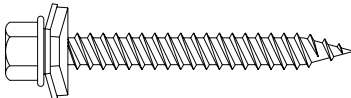
Product No.	Description	WT/250	Finish
8243100	#10-12 x 1" PH Wood Screw	1.90 lbs	Plated

## TRUSS HEAD WOOD SCREW



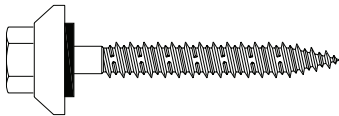
Product No.	Description	WT/250	Finish
8243300	#8-15 x 1" TH Wood Screw	1.90 lbs	Plated

## WOOD SCREW



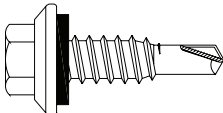
Product No.	Description	WT/250	Finish
82103XX	#10-14 x 1 1/2" Wood Screw	2.75 lbs	Painted

## WOOD SCREW XL



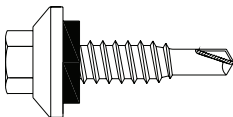
Product No.	Description	WT/250	Finish
8212300	#10-14 x 1 1/2" Wood Screw XL	3.75 lbs	Plated
82123XX	#10-14 x 1 1/2" Wood Screw XL	3.75 lbs	Painted

## STITCH



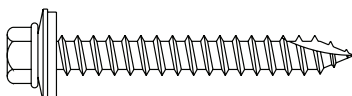
Product No.	Description	WT/250	Finish
82348XX	1/4"-14 x 7/8" Stitch	3.85 lbs	Painted

## STITCH XL

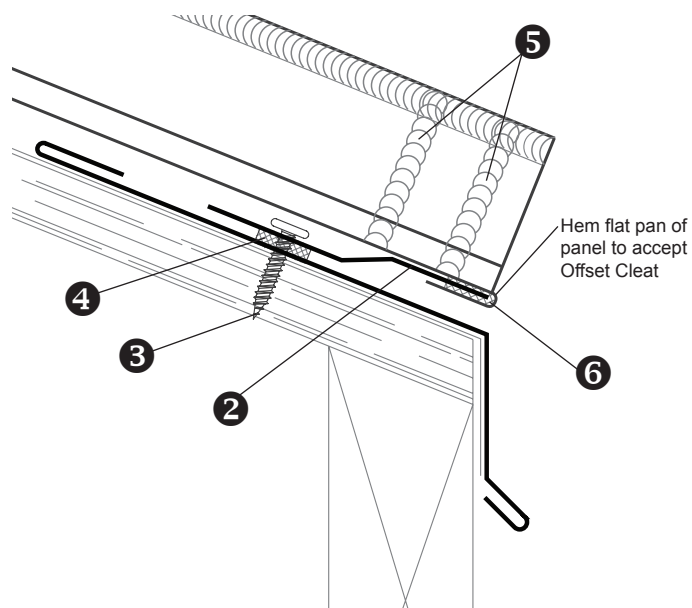
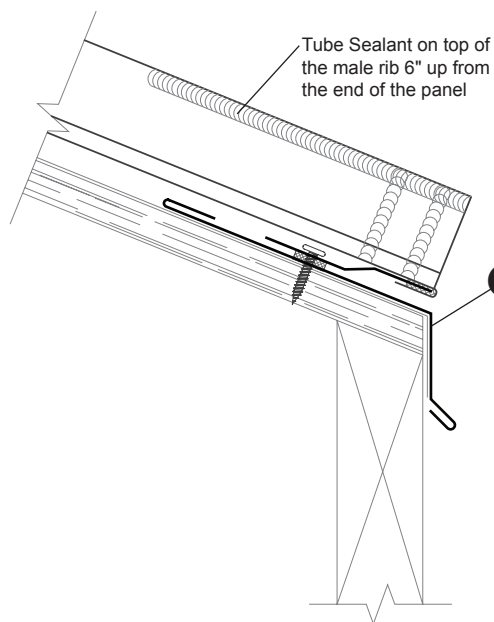


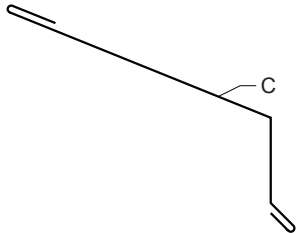
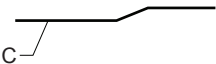
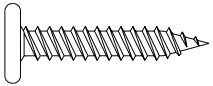



Product No.	Description	WT/250	Finish
8236800	1/4"-14 x 7/8" Stitch XL	5.25 lbs	Plated
82368XX	1/4"-14 x 7/8" Stitch XL	5.25 lbs	Painted

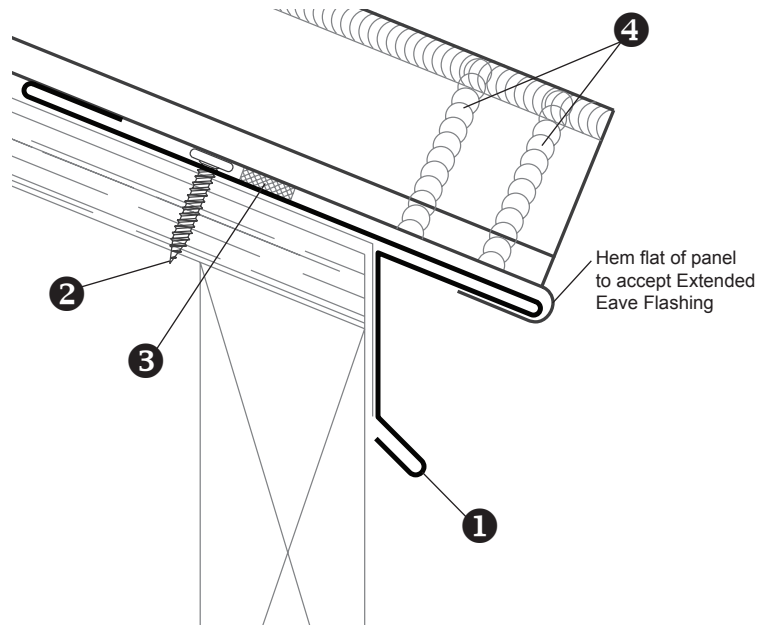
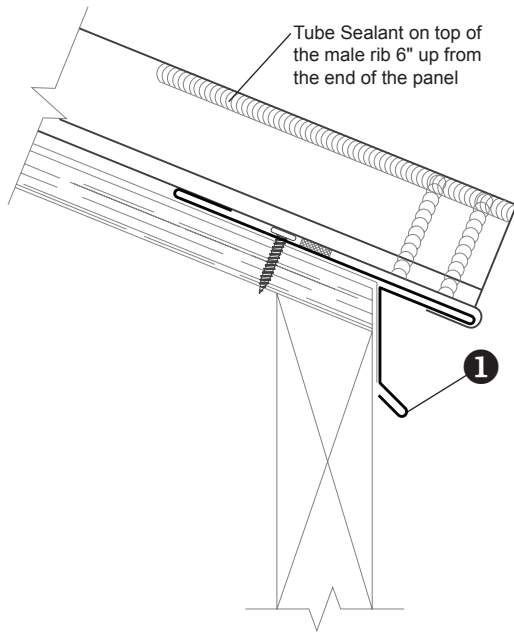
## METALWOOD SCREW



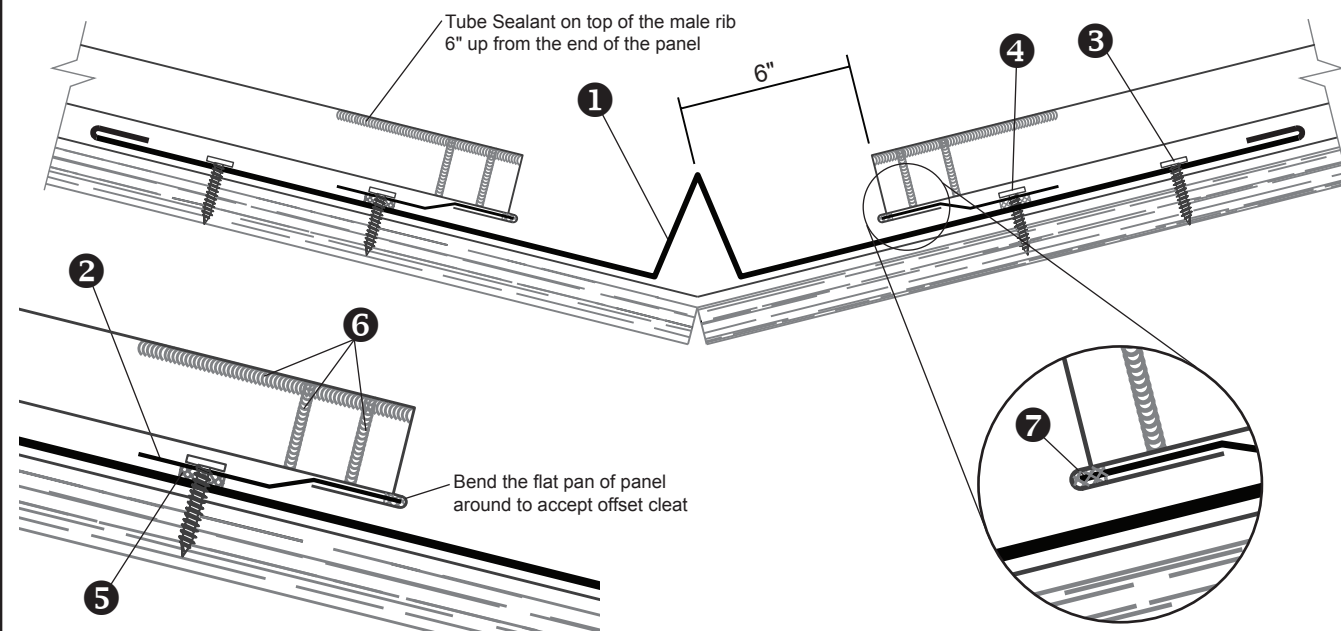
Product No.	Description	WT/250	Finish
8215100	#14 x 1 1/2" Metalwood screw	3.75 lbs	Plated
82151XX	#14 x 1 1/2" Metalwood screw	3.75 lbs	Painted

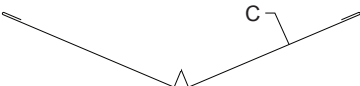
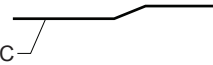
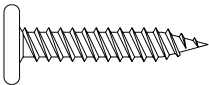
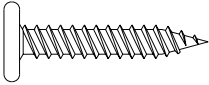





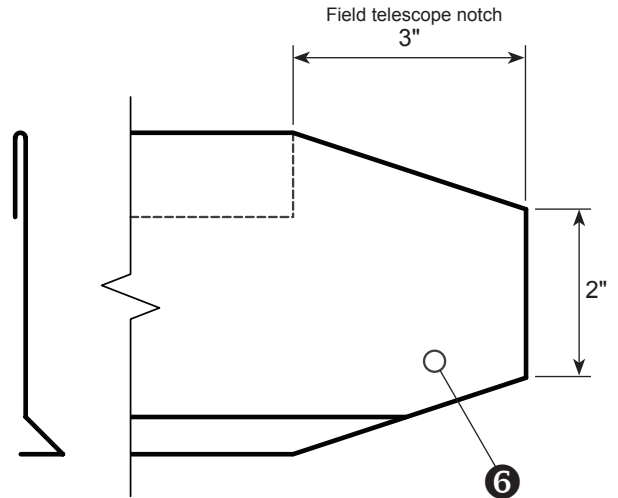
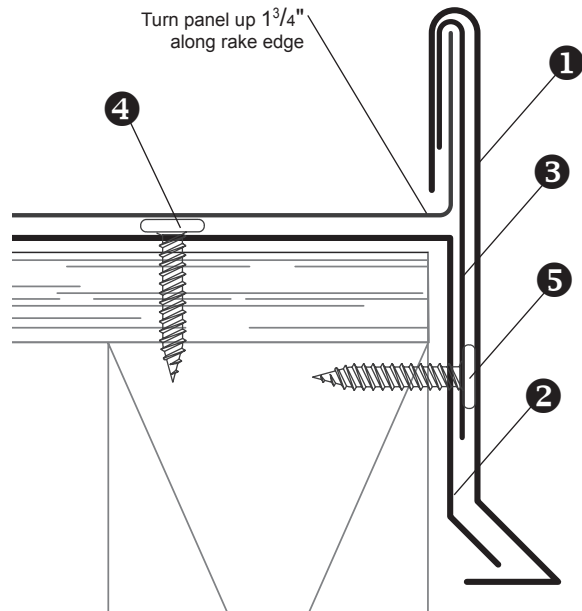
	Part	Description	Product No.	Length	Installation Information
1		Residential Eave	50022XX 26 Gauge	10'-2"	<ul style="list-style-type: none"> <li>► Wrap cardboard around panel hem when crimping closed to the Offset Cleat.</li> <li>► Telescope notch the Eave flashing 3" at all lap locations.</li> </ul>
2		Offset Cleat	5506499 26 Gauge	10'-2"	<ul style="list-style-type: none"> <li>► Offset Cleat should be installed so that the edge aligns with the fascia board.</li> </ul>
3		Pancake Head Wood Screw	8243100	1"	<ul style="list-style-type: none"> <li>► 1 every 6" fastened through the Offset Cleat and Double Bead Tape Sealant.</li> </ul>
4		Double Bead Tape Sealant	6403899	25'	<ul style="list-style-type: none"> <li>► Continuous Double Bead Tape Sealant under Offset Cleat.</li> </ul>
5		Tube Sealant	6403200 64032XX		<ul style="list-style-type: none"> <li>► Apply 2 continuous vertical beads of Tube Sealant to the male leg of the panel as shown.</li> </ul>
6		Tube Sealant	6403200 64032XX		<ul style="list-style-type: none"> <li>► Apply continuous bead of Tube Sealant to the open hem of the panel.</li> </ul>



	Part	Description	Product No.	Length	Installation Information
1		Residential Extended Eave	51024XX 26 Gauge	10'-2"	<ul style="list-style-type: none"> <li>▶ Wrap cardboard around panel hem when crimping closed to the Extended Eave.</li> <li>▶ Telescope notch the Extended Eave flashing 3" at all lap locations.</li> </ul>
2		Pancake Head Wood Screw	8243100	1"	<ul style="list-style-type: none"> <li>▶ Fasten 6" o.c. to hold Extended Eave Flashing in place.</li> </ul>
3		Double Bead Tape Sealant	6403899	25'	<ul style="list-style-type: none"> <li>▶ Apply continuous Double Bead Tape Sealant on Extended Eave below Pancake Head Wood Screws.</li> </ul>
4		Tube Sealant	6403200 64032XX		<ul style="list-style-type: none"> <li>▶ Apply 2 continuous beads of Tube Sealant to the male leg of the panel as shown.</li> </ul>

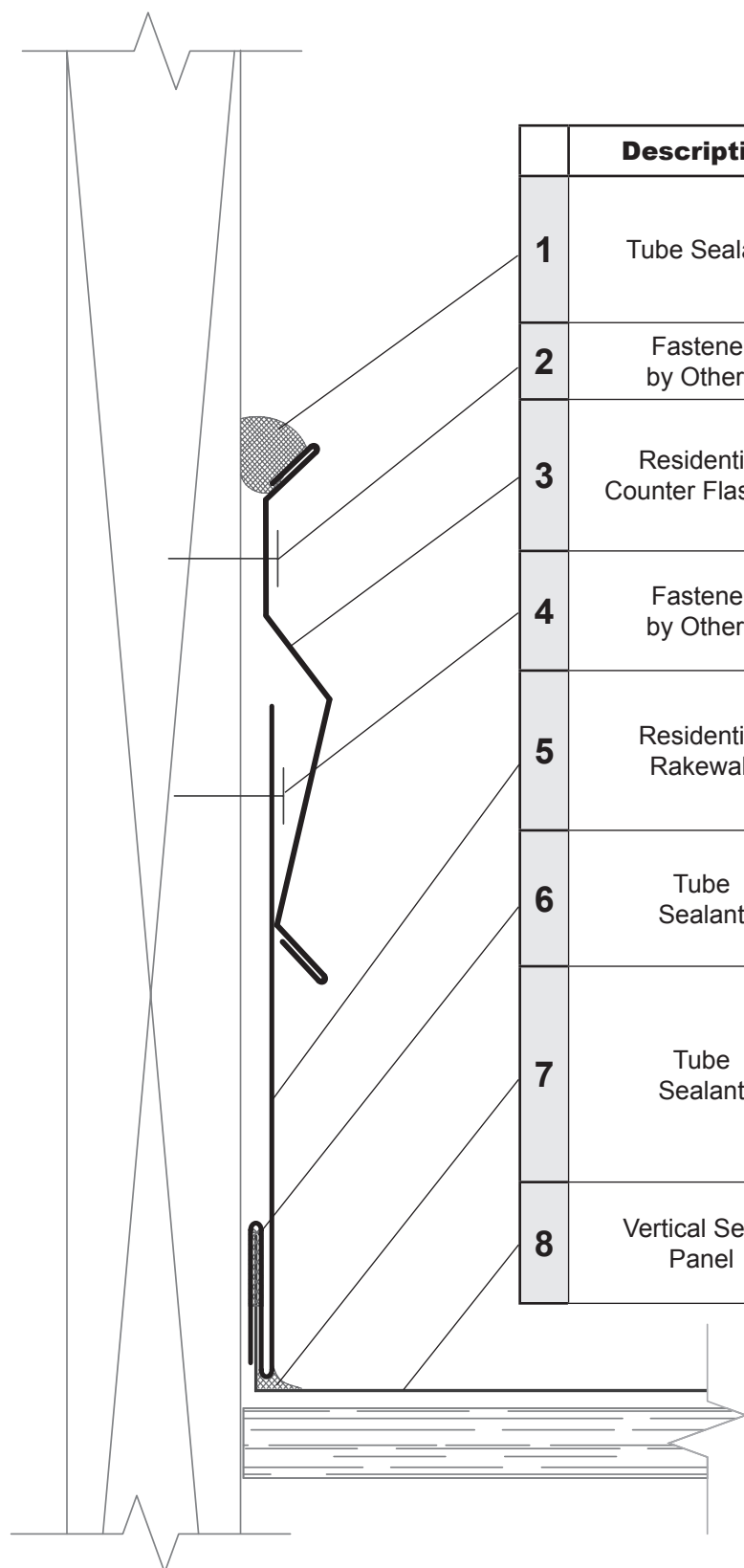


	Part	Description	Product No.	Length	Installation Information
1		Residential W-Valley	50136XX 26 Gauge	10'-2"	► Always install W-Valley Flashing working from eave up slope.
2		Offset Cleat	5506499 26 Gauge	10'-2"	► Install Offset Cleat in a straight line from eave to high end of the valley, 6" from the center of the valley on each side.
3		Pancake Head Wood Screw	8243100	1"	► 4 per 10' of length, to secure flashing in place.
4		Pancake Head Wood Screw	8243100	1"	► 6" on center. Fasten through Double Bead Tape Sealant.
5		Double Bead Tape Sealant	6403899	25'	► Continuous Double Bead Tape Sealant between Offset Cleat and Valley.
6		Tube Sealant	6403200 64032XX		► Apply 2 continuous vertical beads of Tube Sealant to the male leg of the panel and along the top of the rib.
7		Tube Sealant	6403200 64032XX		► Apply continuous bead of Tube Sealant to the open hem of the panel.



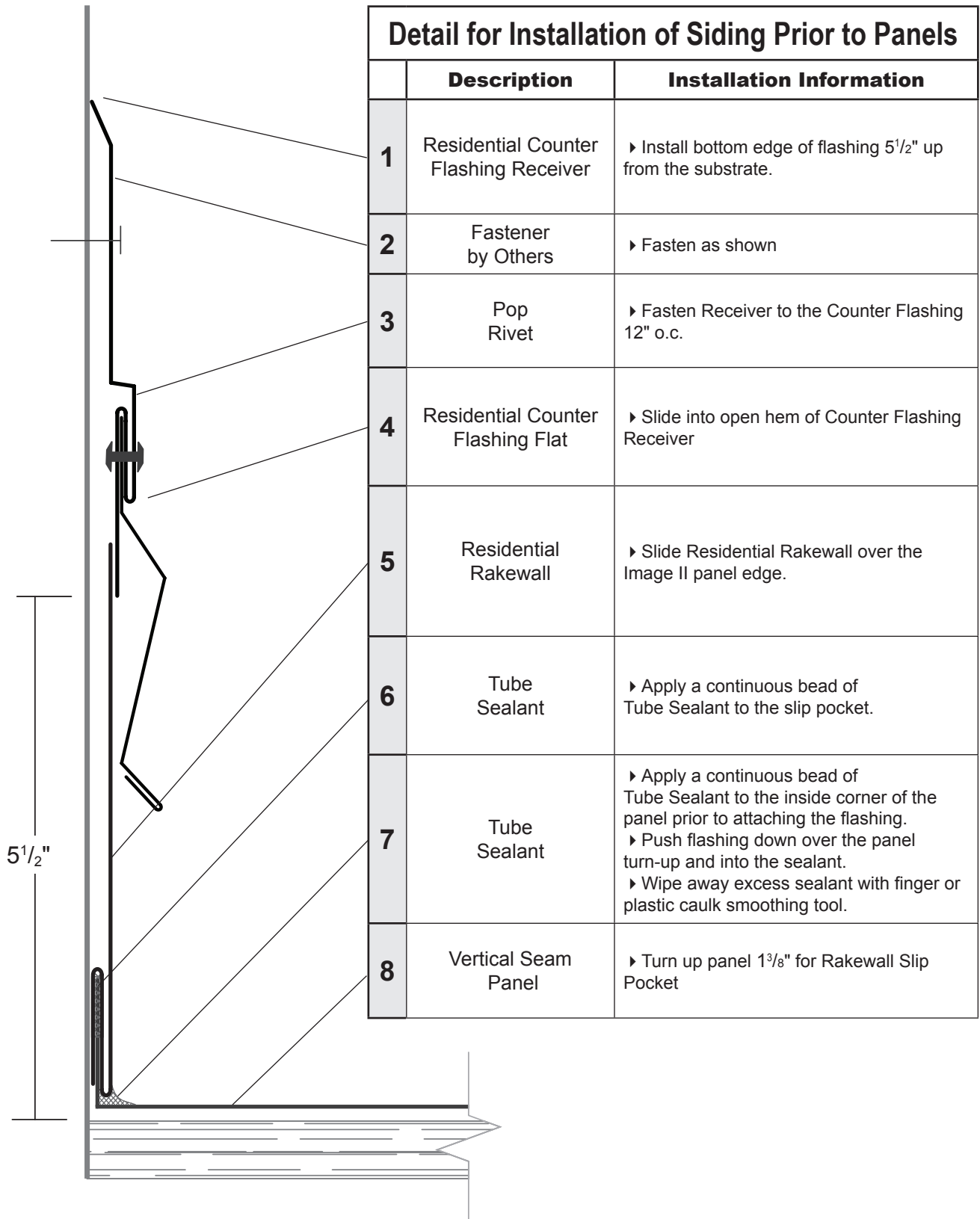
Vertical Seam Residential Rake Flashing Lap Detail

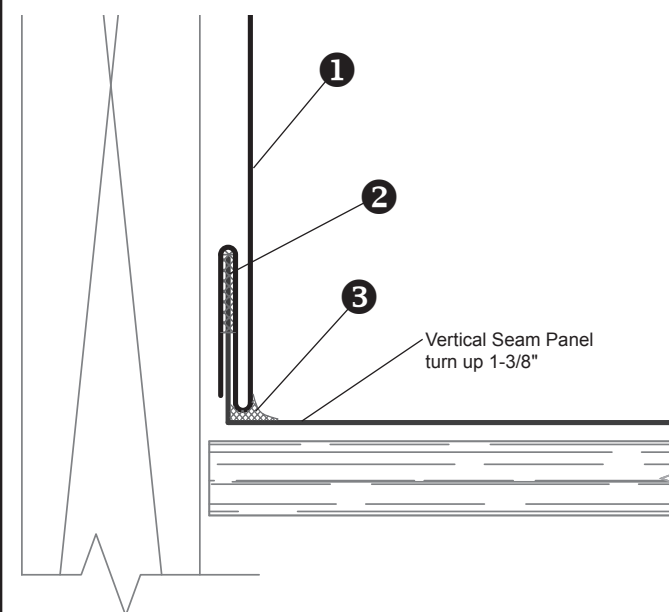
	Part	Description	Product No.	Length	Installation Information
1		Vertical Seam Residential Rake	50127XX 26 Gauge	10'-2"	<ul style="list-style-type: none"> <li>▶ Rake Flashing hooked over the panel edge. Attach to the Rake Cleat.</li> <li>▶ Pinch hem closed along the entire rake edge.</li> </ul>
2		Residential Rake Cleat	50132XX 26 Gauge	10'-2"	<ul style="list-style-type: none"> <li>▶ Fasten Rake Cleat to substrate with either Truss Head or Pancake Head Wood Screw.</li> </ul>
3		Flat Cleat	5506199 26 Gauge	10'-2"	<ul style="list-style-type: none"> <li>▶ Field cut to 1" wide cleats.</li> <li>▶ Installed over panel edge spaced 18" o.c. or to match panel fastener spacing.</li> <li>▶ Fasten with Pancake Head Wood Screws.</li> </ul>
4		Pancake Head Wood Screw	8243100	1"	<ul style="list-style-type: none"> <li>▶ 1 per lineal foot of condition to 18" o.c.</li> </ul>
5		Pancake Head Wood Screw	8243100	1"	<ul style="list-style-type: none"> <li>▶ 1 per Flat Cleat.</li> <li>▶ 18" o.c. or to match panel fastener spacing.</li> </ul>
6		1/8" x 3/16" Pop Rivet	82409XX		<ul style="list-style-type: none"> <li>▶ Install single Pop Rivet through the Rake into the Rake Cleat.</li> </ul>



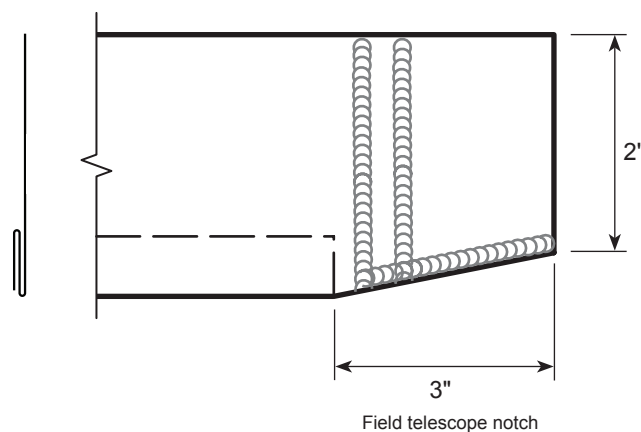
	Description	Installation Information
1	Tube Sealant	► Fill the space between the Counter Flashing and the wall.
2	Fastener by Others	► Fasten as shown
3	Residential Counter Flashing	► Fasten to wall over Residential Rakewall flashing.
4	Fastener by Others	► Fasten as shown
5	Residential Rakewall	► Slide Residential Rakewall over the Image II panel edge.
6	Tube Sealant	► Apply a continuous bead of Tube Sealant to the slip pocket.
7	Tube Sealant	► Apply a continuous bead of Tube Sealant to the inside corner of the panel prior to attaching the flashing. ► Push flashing down over the panel turn-up and into the sealant. ► Wipe away excess sealant with finger or plastic caulk smoothing tool.
8	Vertical Seam Panel	► Turn up panel 1 <sup>3</sup> / <sub>8</sub> " for Rakewall Slip Pocket



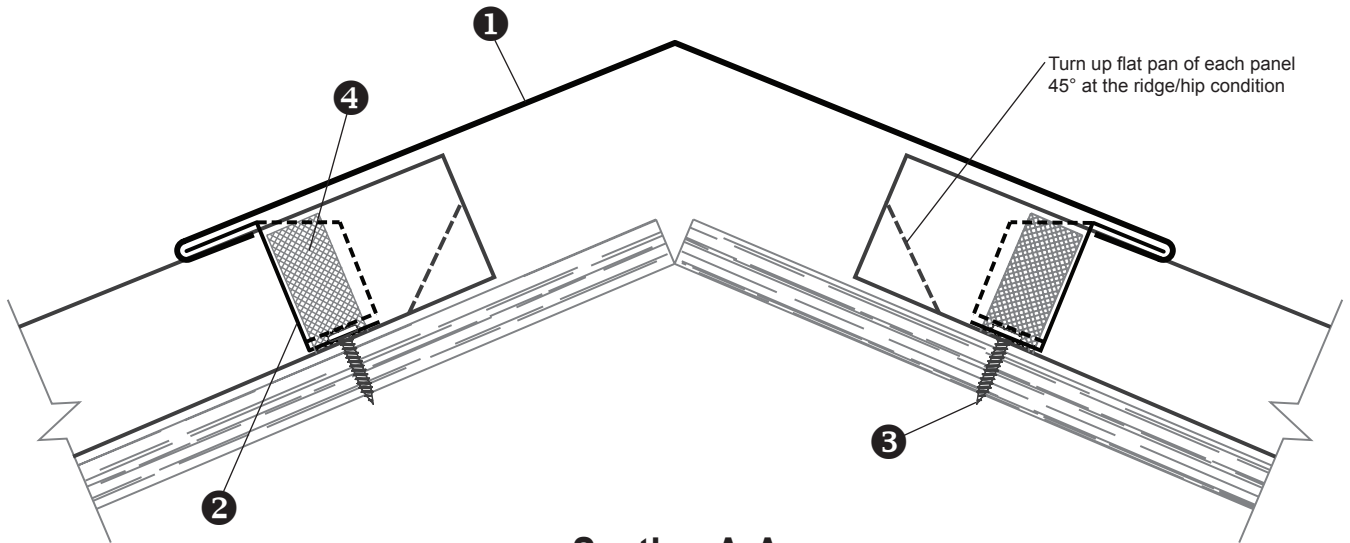




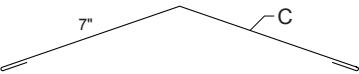
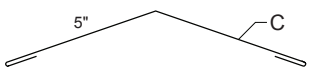
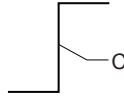
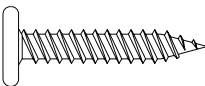

Residential Rakewall Flashing Lap Detail

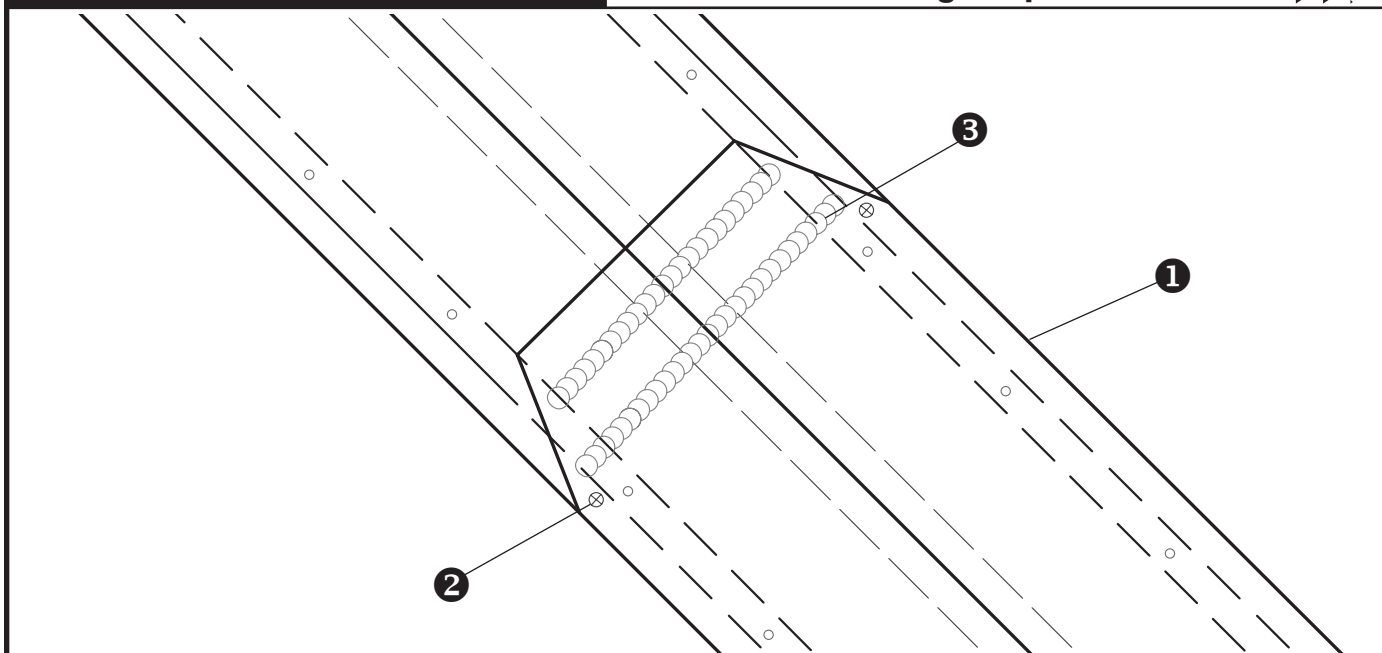


	Part	Description	Product No.	Length	Installation Information
1	<p>Slip Pocket</p> <p>C</p>	Residential Rakewall	50129XX 26 Gauge	10'-2"	<ul style="list-style-type: none"> <li>► Slide Residential Rakewall over the Vertical Seam panel edge.</li> </ul>
2		Tube Sealant	6403200 64032XX		<ul style="list-style-type: none"> <li>► Apply a continuous bead of Tube Sealant to the slip pocket.</li> </ul>
3		Tube Sealant	6403200 64032XX		<ul style="list-style-type: none"> <li>► Apply a continuous bead of Tube Sealant to the inside corner of the panel prior to attaching the flashing.</li> <li>► Push flashing down over the panel turn-up and into the sealant.</li> <li>► Wipe away excess sealant with finger or plastic caulk smoothing tool.</li> </ul>

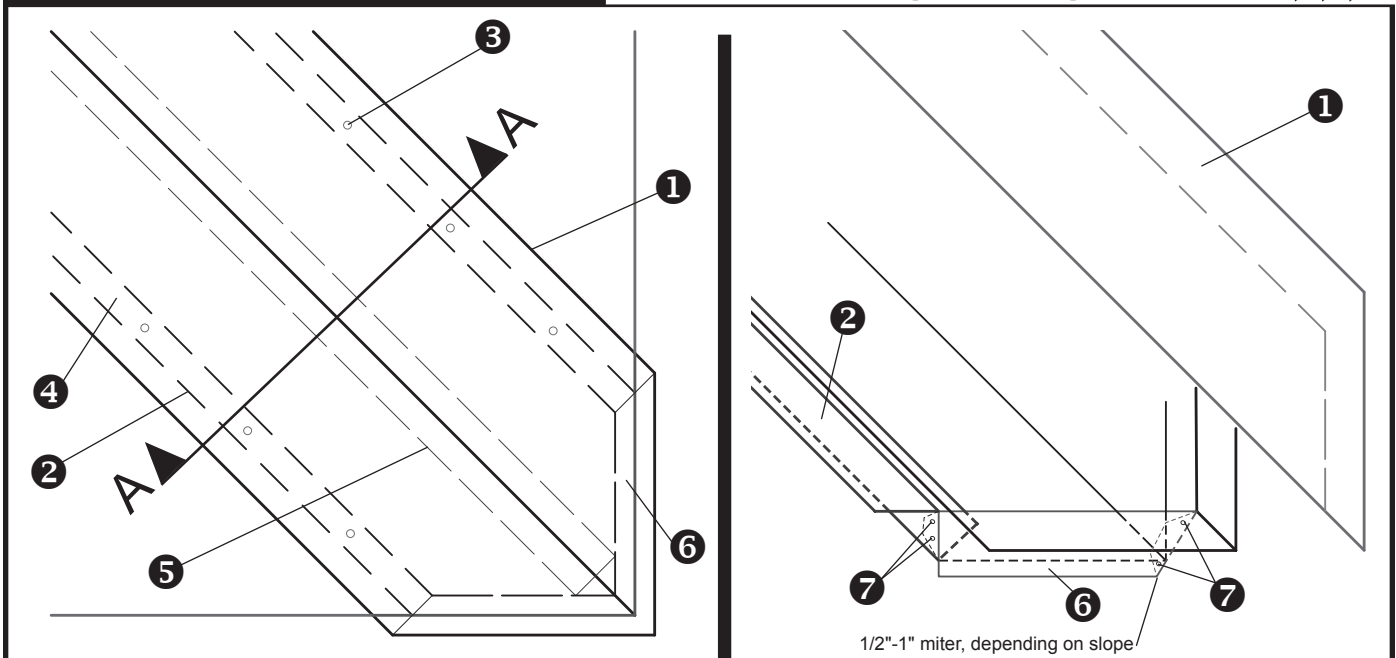


Section A-A

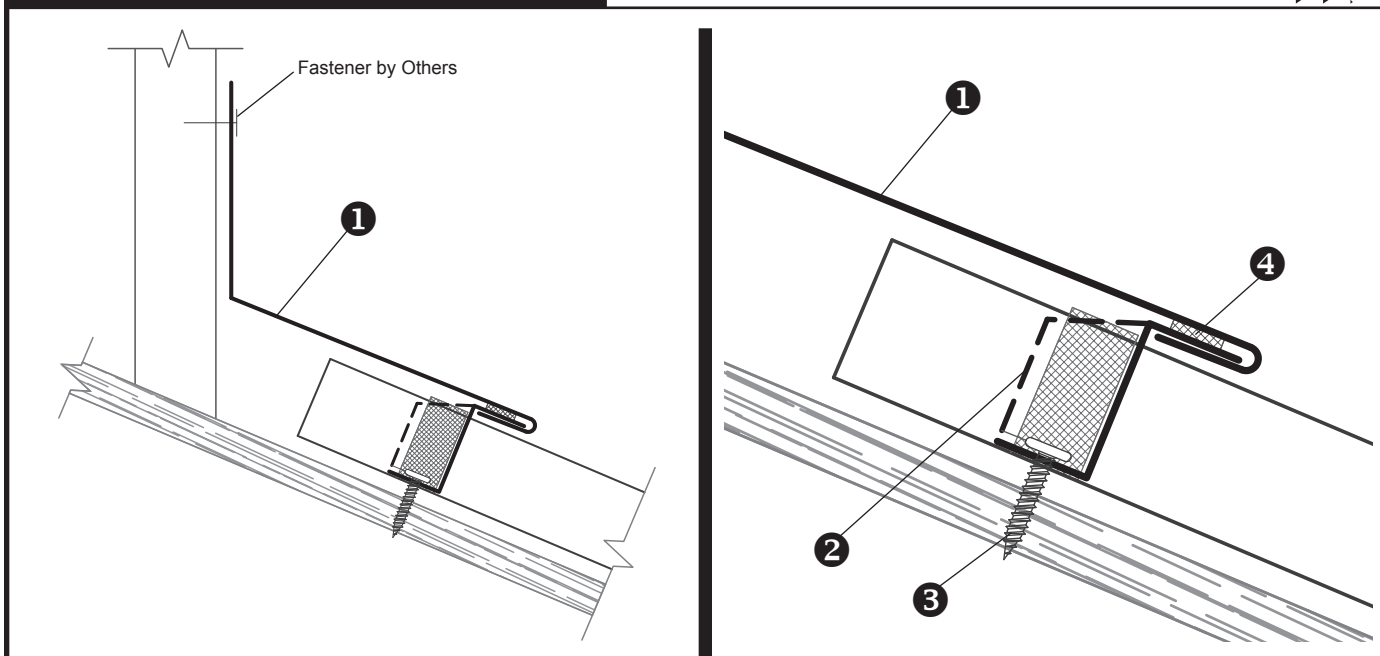
	Part	Description	Product No.	Length	Installation Information
1		7" Ridge/Hip Cover	50131XX 26 Gauge	10'-2"	► Slide Ridge/Hip Cover over top flange of Z-Closures.
		5" Ridge/Hip Cover	50130XX 26 Gauge		
2		Vertical Seam Z-Closure	55702XX 26 Gauge	10'-2"	► 1" end tabs on Z-Closure.
3		Pancake Head Wood Screw	8243100	1"	► 4 required at every Z-Closure fastening through the Z-Closure and Double Bead Tape Sealant.
4		Double Bead Tape Sealant	6403899	25'	► Continuous Double Bead Tape Sealant required over face of panels and up and over ribs.

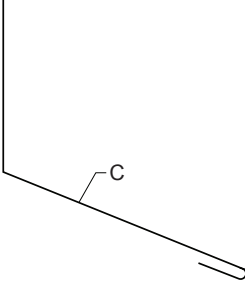
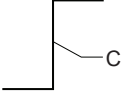
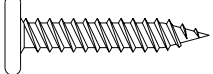



	Description	Installation Information
1	Ridge/Hip Cover	► Telescope notch each piece 3" at high side and fasten to the adjacent Ridge/Hip Flashing with a Pop Rivet on each side.
2	Pop Rivet	► 2 Pop Rivets per notched tab, attaching the flashings.
3	Tube Sealant	► Apply two rows of Tube Sealant between the two lapped flashings.

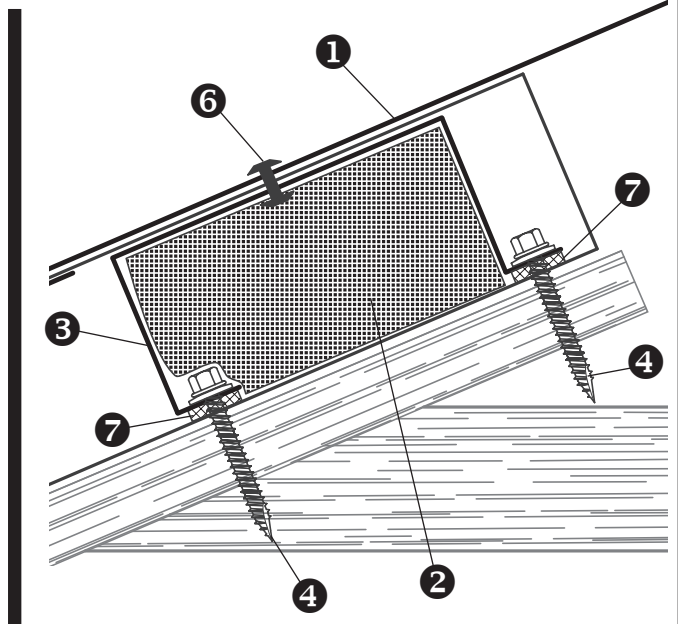
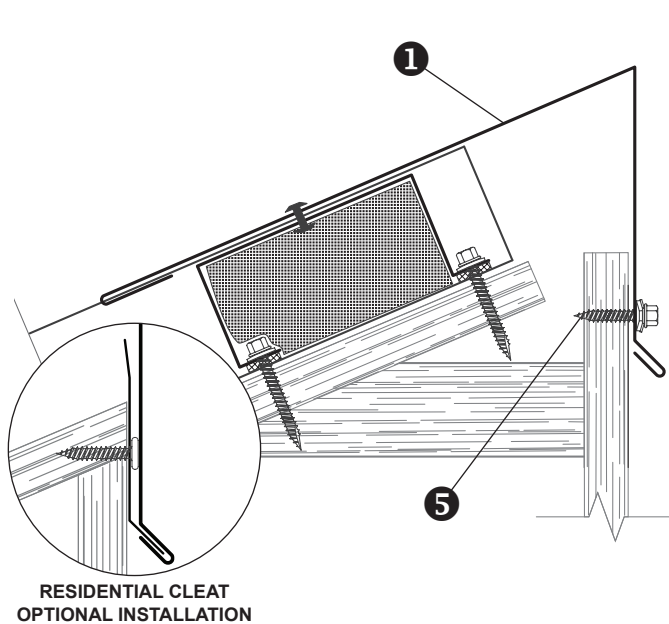


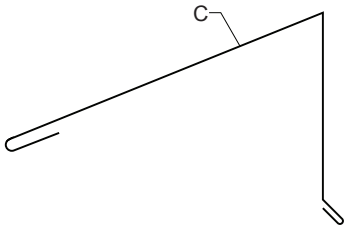

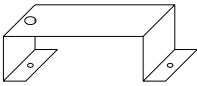
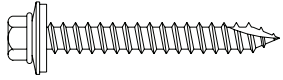
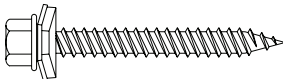
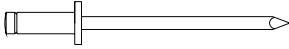

	Description	Installation Information
1	Ridge/Hip Cover	► Open hems of the Hip Flashing slide onto 1" top flanges of Z-Closure. Fold 1" hems over top flashings of Vertical Seam end cap. Attach high side of flashing as shown on page 24.
2	Vertical Seam Z-Closure	► Z-Closures over continuous Double Bead Tape Sealant.
3	Pancake Head Wood Screw	► Attach Vertical Seam Z-Closures with Pancake Head Wood Screws or Truss Head Wood Screws.
4	Double Bead Tape Sealant	► Double Bead Tape Sealant required under Z-Closures and over panel ribs. A weep hole/gap in the Double Bead Tape Sealant is required at the low side of the Z-Closure, along the panel rib.
5	Vertical Seam Panel	► Turn the Vertical Seam panel ends turned up to vertical 1" at the hip.
6	Vertical Seam End Cap	► Lower flange of End Cap covers the panel hem.
7	Pop Rivet	► 2 Pop Rivets per miter, attaching End Caps to the Z-Closures.

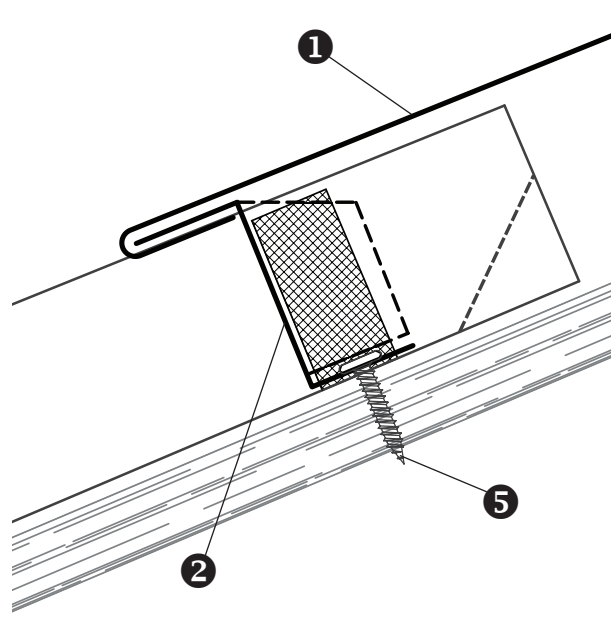
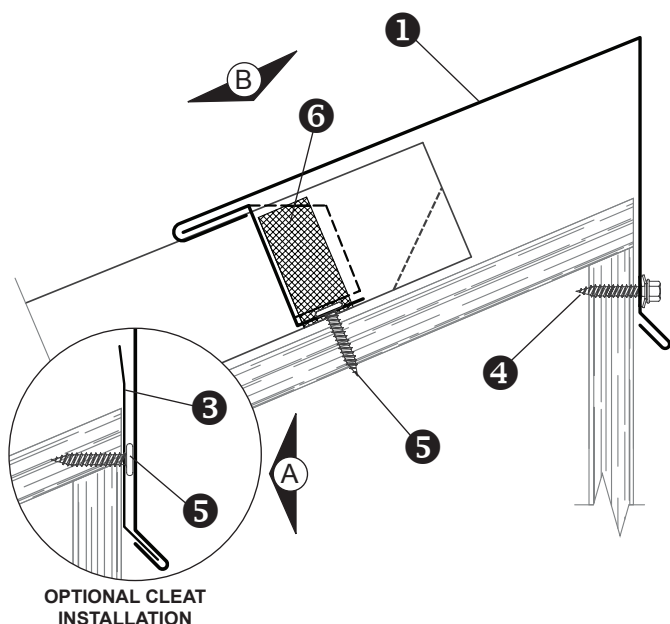


	Part	Description	Product No.	Length	Installation Information
1		Residential Pitch Break	53943XX 26 Gauge	10'-2"	► Open hem hooks onto Z-Closure.
2		Vertical Seam Z-Closure	55702XX 26 Gauge	10'-2"	► 1" end tabs on Z-Closure.
3		Pancake Head Wood Screw	8243100	1"	► 4 required at every Z-Closure fastening through the Double Bead Tape Sealant.
4		Double Bead Tape Sealant	6403899	25'	► Continuous Double Bead Tape Sealant required over face of panels and up and over ribs. ► Continuous Double Bead Tape Sealant required over top of Z-Closures.



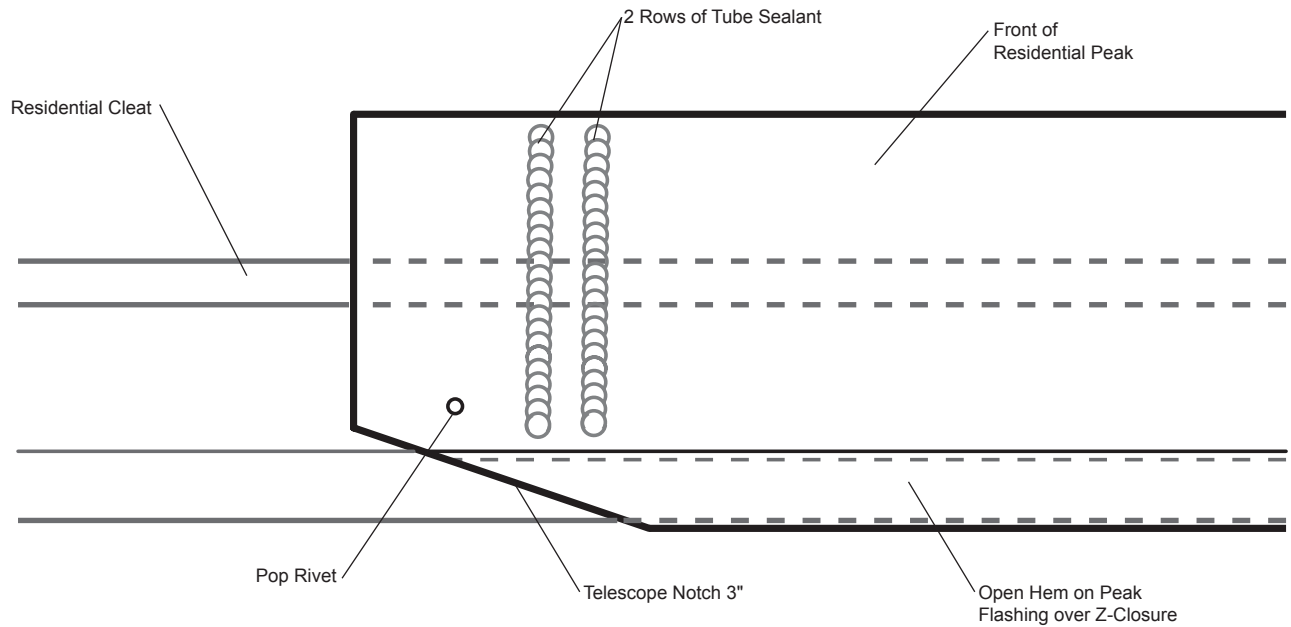


	Part	Description	Product No.	Length	Installation Information
1		Vertical Seam Residential Peak	50133XX 26 Gauge	10'-2"	<ul style="list-style-type: none"> <li>▶ Peak flashing face can be attached directly to substrate or hooked on optional Residential Cleat.</li> </ul>
2		Profile Vent	Notched 16" 6462118 Notched 18" 6462119	100'	<ul style="list-style-type: none"> <li>▶ Lay over panel ribs between Peak Flashing and panel.</li> </ul>
3		Vertical Seam Profile Vent Clip	6541000	3 1/8"	<ul style="list-style-type: none"> <li>▶ Place over Profile Vent and fasten with two 1 1/2" Metalwood screws.</li> <li>▶ Install 2 clips per panel.</li> </ul>
4		#14-1 1/2" Metalwood Screw	8215100	1 1/2"	<ul style="list-style-type: none"> <li>▶ 2 per Profile Vent Clip.</li> <li>▶ Fasten through Double Bead Tape Sealant on the low side.</li> </ul>
5		#10-14 x 1 1/2" Wood Screw	82103XX	1 1/2"	<ul style="list-style-type: none"> <li>▶ 1 per lineal foot of condition.</li> <li>▶ *Optional Pancake Head Wood Screw can be used with Residential Cleat.</li> </ul>
6		1/8" x 3/16" Pop Rivet	82409XX		<ul style="list-style-type: none"> <li>▶ Fasten Pop Rivet through the Peak into the Profile Vent Clip.</li> <li>▶ *Optional install Stitch Screw.</li> </ul>
7		Double Bead Tape Sealant	6403899	25'	<ul style="list-style-type: none"> <li>▶ Double Bead Tape Sealant at the low side and high side of each Profile Vent Clip.</li> </ul>

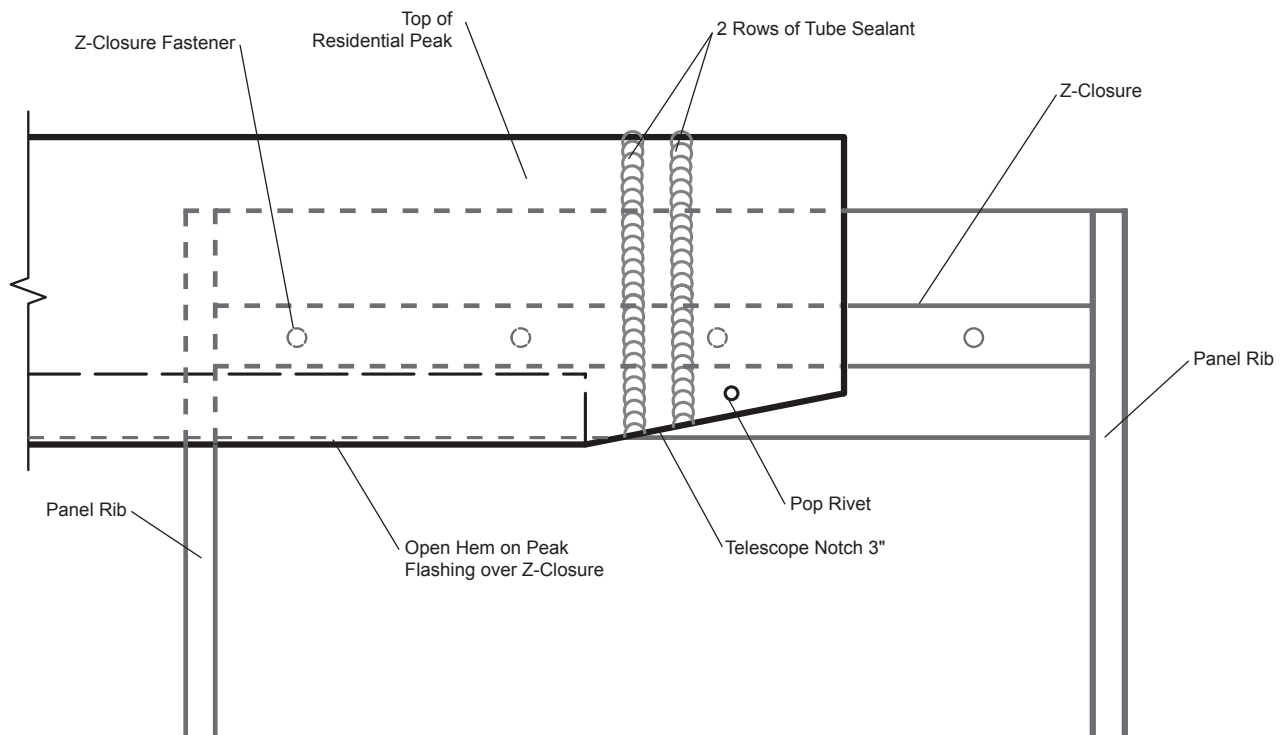


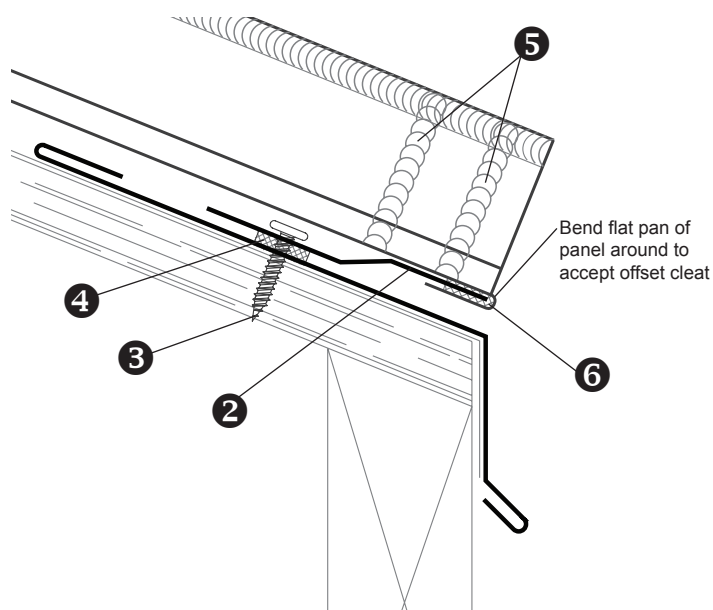
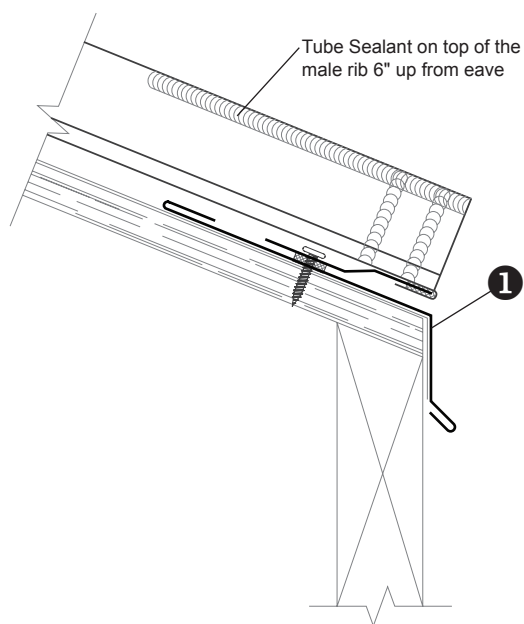
	Part	Description	Product No.	Length	Installation Information
1		Vertical Seam Residential Peak	50133XX 26 Gauge	10'-2"	► Peak flashing face can be attached directly to substrate or hooked on Residential Cleat.
2		Vertical Seam Z-Closure	55702XX 26 Gauge	10'-2"	► 1" end tabs on Z-Closure.
3		Residential Cleat	5013599 26 Gauge	10'-2"	► Optional concealed fastener installation. ► Fasten with Pancake Head Wood Screws 1 per lineal foot.
4		#10-14 x 1 1/2" Wood Screw	82103XX	1 1/2"	► 1 per lineal foot ► Not used if optional Residential Cleat is installed.
5		Pancake Head Wood Screw	8243100	1"	► 4 at every Z-Closure fastening through the Double Bead Tape Sealant.
6		Double Bead Tape Sealant	6403899	25'	► Continuous Double Bead Tape Sealant required over face of panels and up and over ribs.

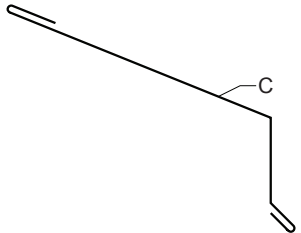
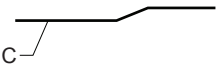
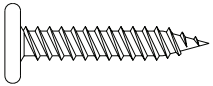



## Peak Flashing Lap - Front View

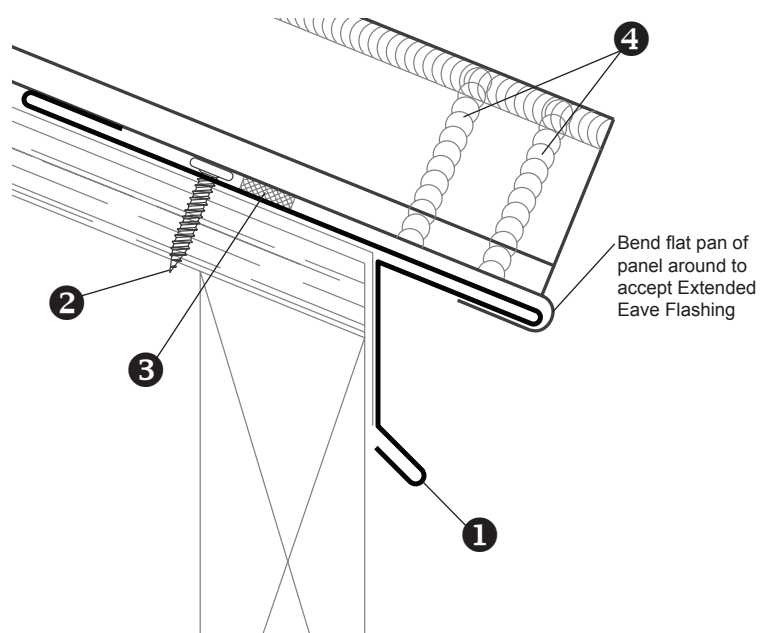
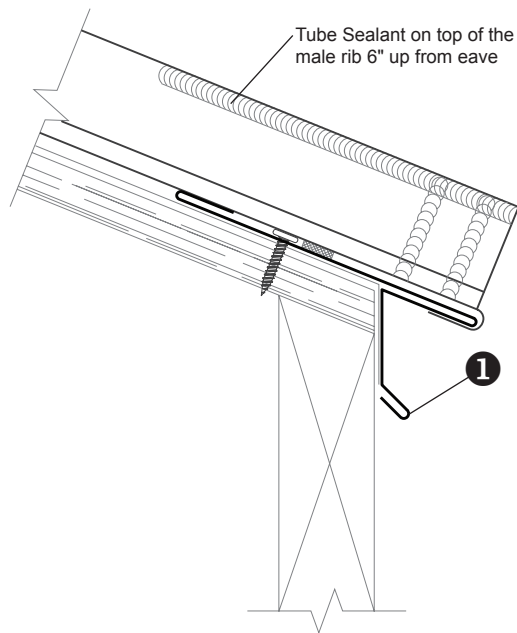


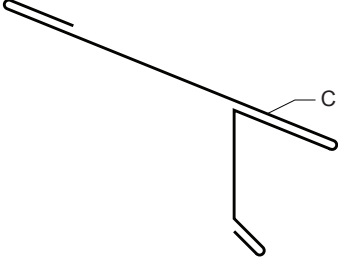
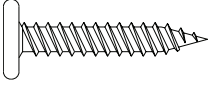


## Peak Flashing Lap - Top View

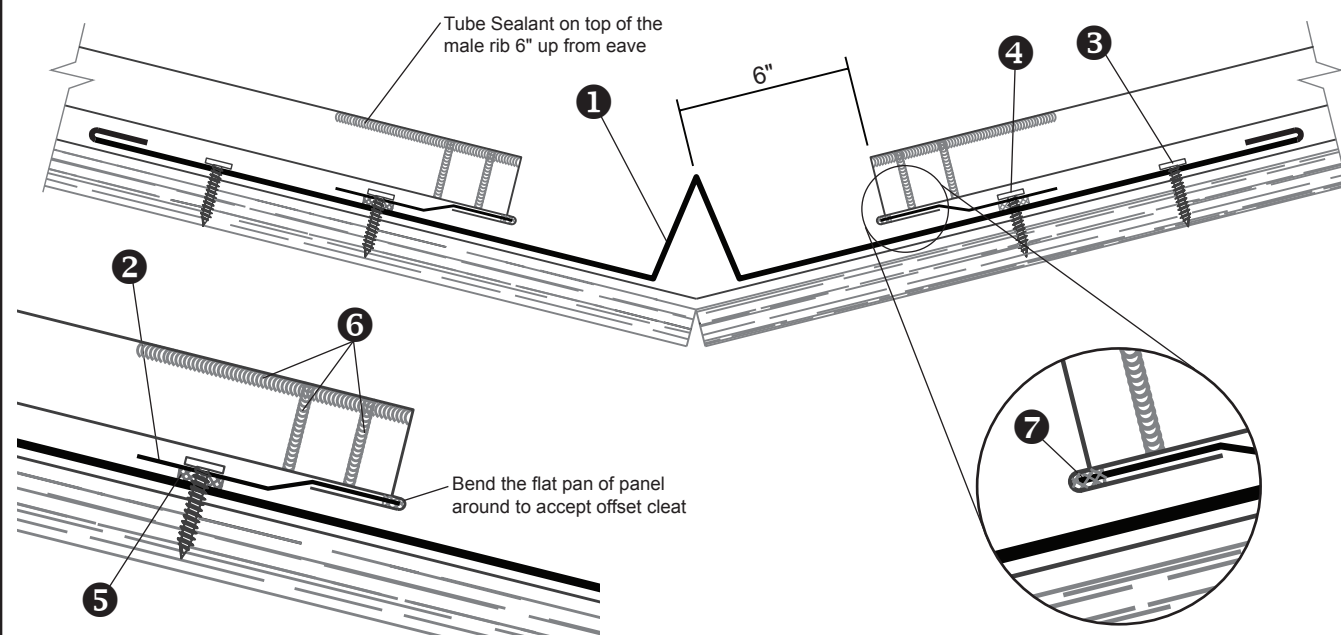




	Part	Description	Product No.	Length	Installation Information
1		Residential Eave	50022XX 26 Gauge	10'-2"	<ul style="list-style-type: none"> <li>► Wrap cardboard around panel hem when crimping closed to the Offset Cleat.</li> <li>► Telescope notch the Eave flashing 3" at all lap locations.</li> </ul>
2		Offset Cleat	5506499 26 Gauge	10'-2"	<ul style="list-style-type: none"> <li>► Offset Cleat should be installed so that the edge aligns with the fascia board.</li> </ul>
3		Pancake Head Wood Screw	8243100	1"	<ul style="list-style-type: none"> <li>► 1 required every 6" fastened through the offset Cleat and Double Bead Tape Sealant.</li> </ul>
4		Double Bead Tape Sealant	6403899	25'	<ul style="list-style-type: none"> <li>► Continuous Double Bead Tape Sealant required under Offset Cleat.</li> </ul>
5		Tube Sealant	6403200 64032XX		<ul style="list-style-type: none"> <li>► Apply 2 continuous beads of Tube Sealant to the female leg of the panel as shown.</li> </ul>
6		Tube Sealant	6403200 64032XX		<ul style="list-style-type: none"> <li>► Fill in open hem of the panel with a continuous bead of Tube Sealant.</li> </ul>



	Part	Description	Product No.	Length	Installation Information
1		Residential Extended Eave	51024XX 26 Gauge	10'-2"	<ul style="list-style-type: none"> <li>▶ Wrap cardboard around panel hem when crimping closed to the Extended Eave.</li> <li>▶ Telescope notch the Extended Eave flashing 3" at all lap locations.</li> </ul>
2		Pancake Head Wood Screw	8243100	1"	<ul style="list-style-type: none"> <li>▶ Fasten 6" o.c. to hold Extended Eave Flashing in place.</li> </ul>
3		Double Bead Tape Sealant	6403899	25'	<ul style="list-style-type: none"> <li>▶ Apply continuous line of Double Bead Tape Sealant on Extended Eave below Pancake Head Wood Screws.</li> </ul>
4		Tube Sealant	6403200 64032XX		<ul style="list-style-type: none"> <li>▶ Apply 2 continuous beads of Tube Sealant to the female leg of the panel as shown.</li> </ul>



	Part	Description	Product No.	Length	Installation Information
1		Residential W-Valley	50136XX 26 Gauge	10'-2"	► Always install W-Valley Flashing working from eave up slope.
2		Offset Cleat	5506499 26 Gauge	10'-2"	► Install Offset Cleat in a straight line from eave to high end of the valley, 6" from the center of the valley on each side.
3		Pancake Head Wood Screw	8243100	1"	► 4 per 10' of length, to secure flashing in place.
4		Pancake Head Wood Screw	8243100	1"	► 6" on center. Fasten through Double Bead Tape Sealant.
5		Double Bead Tape Sealant	6403899	25'	► Continuous Double Bead Tape Sealant between Offset Cleat and Valley.
6		Tube Sealant	6403200 64032XX		► Apply 2 continuous vertical beads of Tube Sealant to the male leg of the panel and along the top of the rib.
7		Tube Sealant	6403200 64032XX		► Apply continuous bead of Tube Sealant to the open hem of the panel.



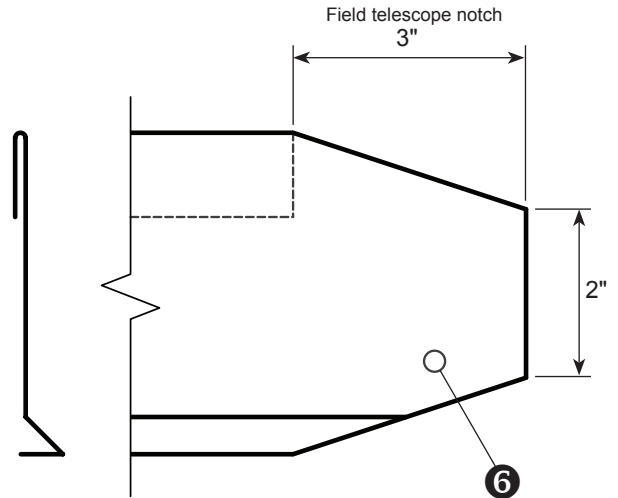
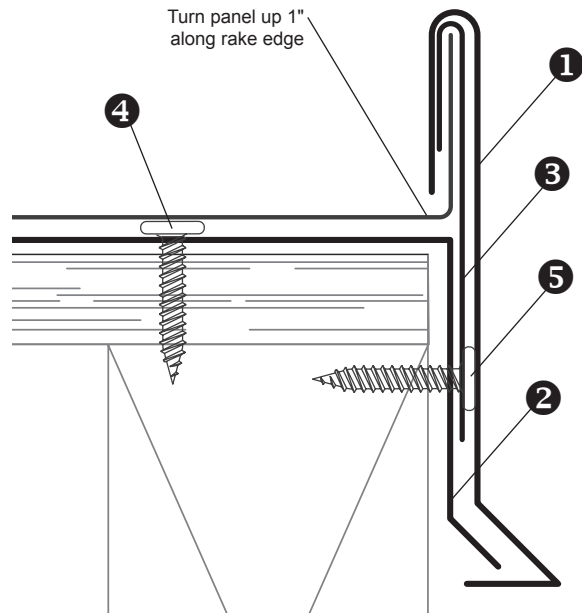

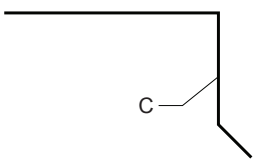
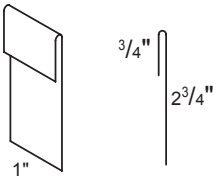
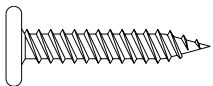
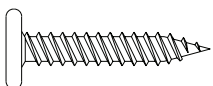
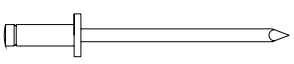
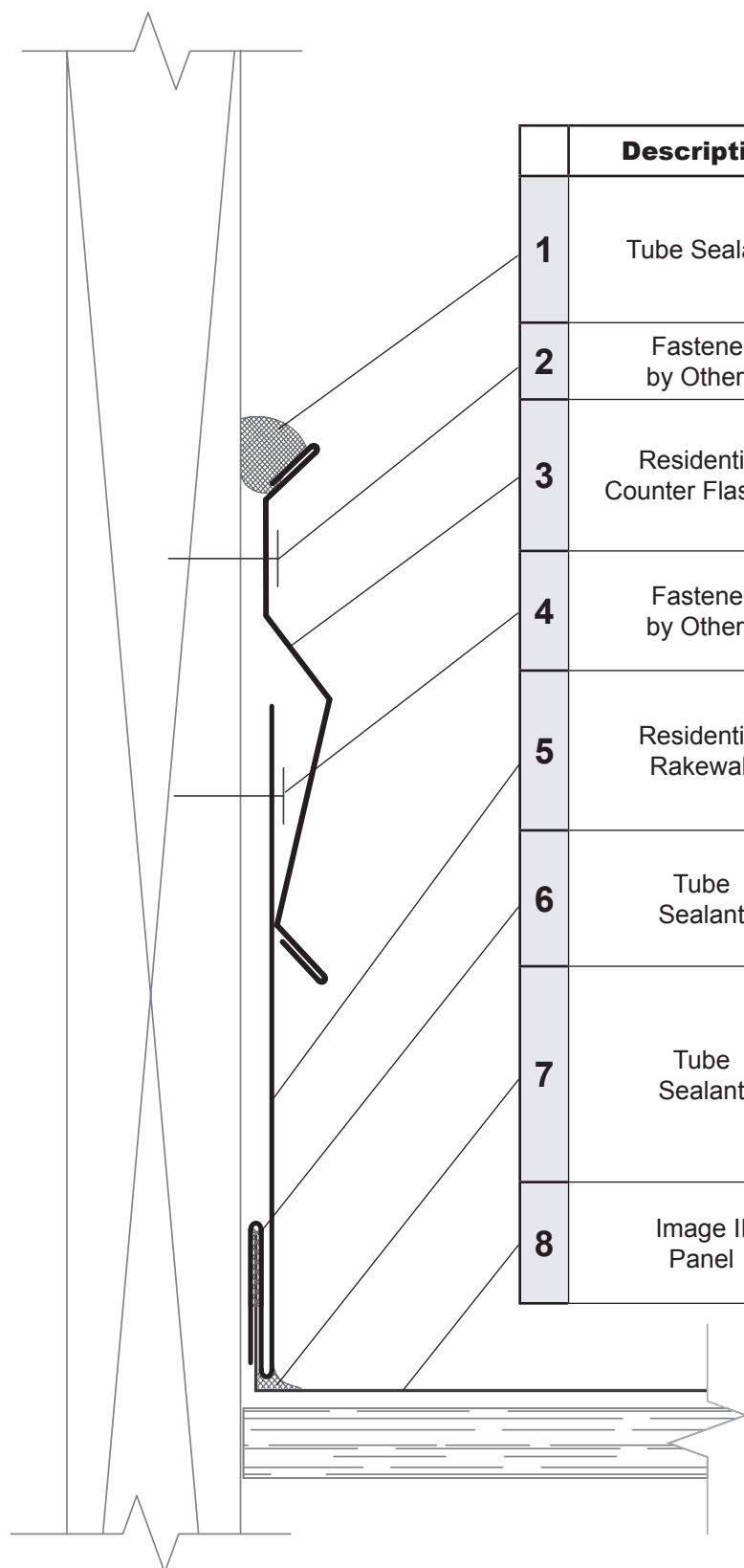
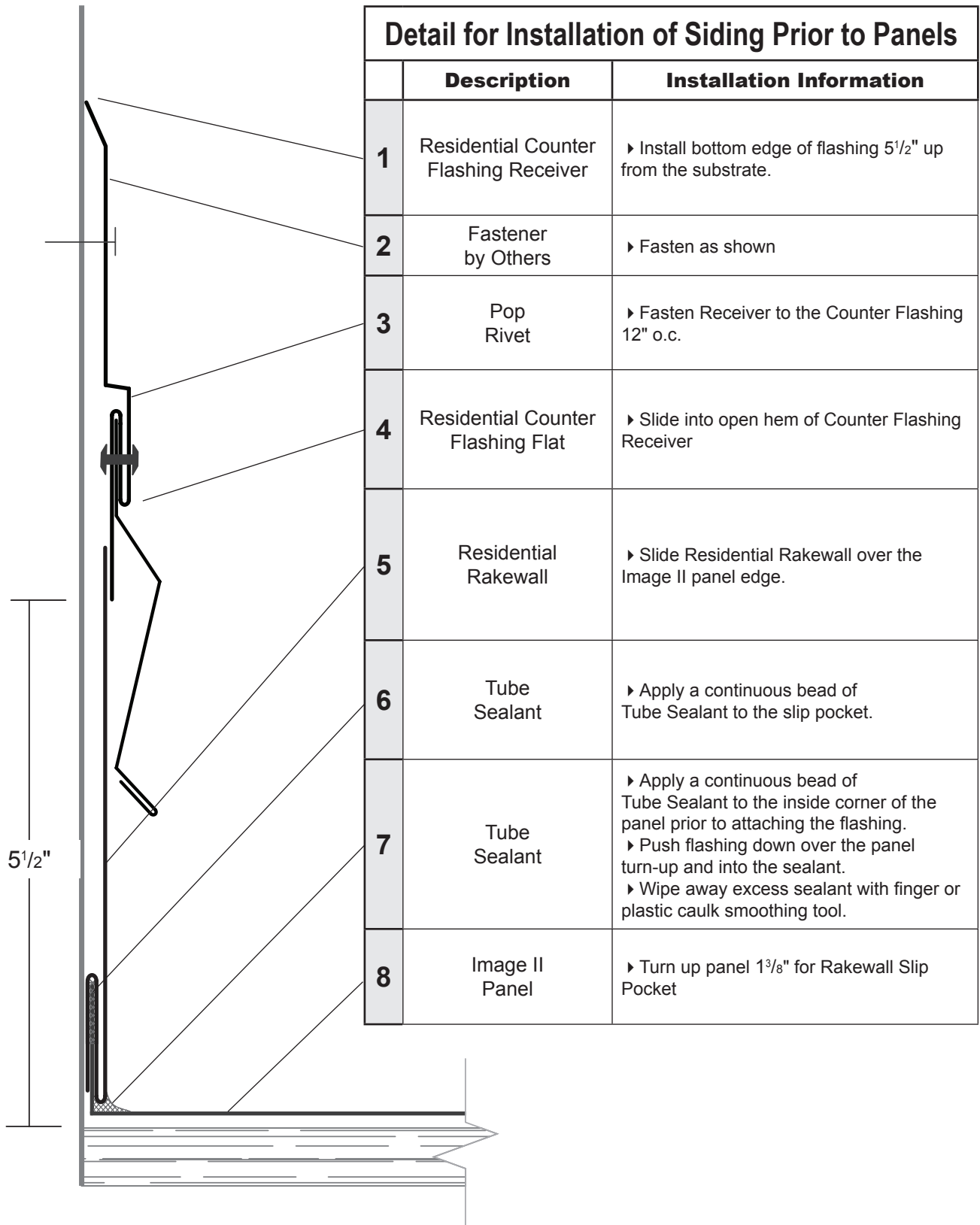


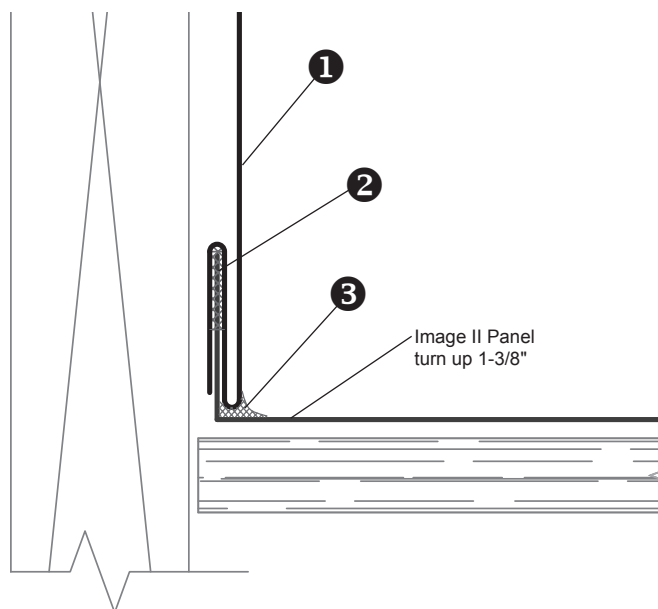
Image II Residential Rake Flashing Lap Detail

	Part	Description	Product No.	Length	Installation Information
1		Image II Residential Rake	51026XX 26 Gauge	10'-2"	<ul style="list-style-type: none"> <li>▶ Rake Flashing hooked over the panel edge. Attach to the Rake Cleat.</li> <li>▶ Pinch hem closed along the entire rake edge.</li> </ul>
2		Residential Rake Cleat	50132XX 26 Gauge	10'-2"	<ul style="list-style-type: none"> <li>▶ Fasten Rake Cleat to substrate with either Truss Head or Pancake Head Wood Screw.</li> </ul>
3		Flat Cleat	5506199 26 Gauge	10'-2"	<ul style="list-style-type: none"> <li>▶ Field cut to 1" wide cleats.</li> <li>▶ Installed over panel edge spaced 18" o.c. or to match panel fastener spacing.</li> <li>▶ Fasten with Pancake Head Wood Screws.</li> </ul>
4		Pancake Head Wood Screw	8243100	1"	<ul style="list-style-type: none"> <li>▶ 1 per lineal foot of condition to 18" o.c.</li> </ul>
5		Pancake Head Wood Screw	8243100	1"	<ul style="list-style-type: none"> <li>▶ 1 per Flat Cleat,</li> <li>▶ 18" o.c. or to match panel fastener spacing.</li> </ul>
6		$\frac{1}{8}$ " x $\frac{3}{16}$ " Pop Rivet	82409XX		<ul style="list-style-type: none"> <li>▶ Install single Pop Rivet through the Rake into the Rake Cleat.</li> </ul>

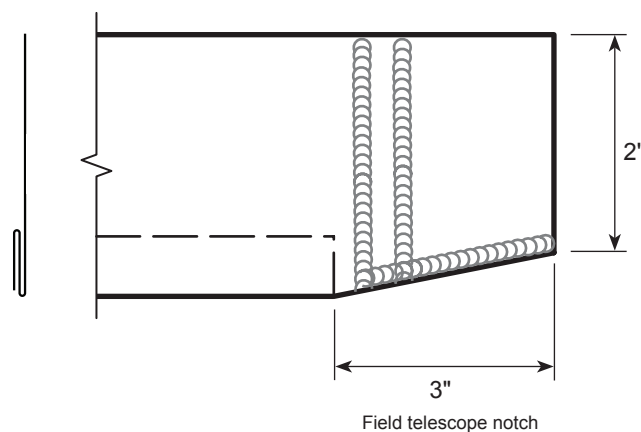


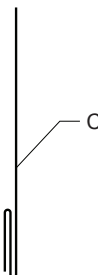


	Description	Installation Information
1	Tube Sealant	► Fill the space between the Counter Flashing and the wall.
2	Fastener by Others	► Fasten as shown
3	Residential Counter Flashing	► Fasten to wall over Residential Rakewall flashing.
4	Fastener by Others	► Fasten as shown
5	Residential Rakewall	► Slide Residential Rakewall over the Image II panel edge.
6	Tube Sealant	► Apply a continuous bead of Tube Sealant to the slip pocket.
7	Tube Sealant	► Apply a continuous bead of Tube Sealant to the inside corner of the panel prior to attaching the flashing. ► Push flashing down over the panel turn-up and into the sealant. ► Wipe away excess sealant with finger or plastic caulk smoothing tool.
8	Image II Panel	► Turn up panel 1 <sup>3</sup> / <sub>8</sub> " for Rakewall Slip Pocket

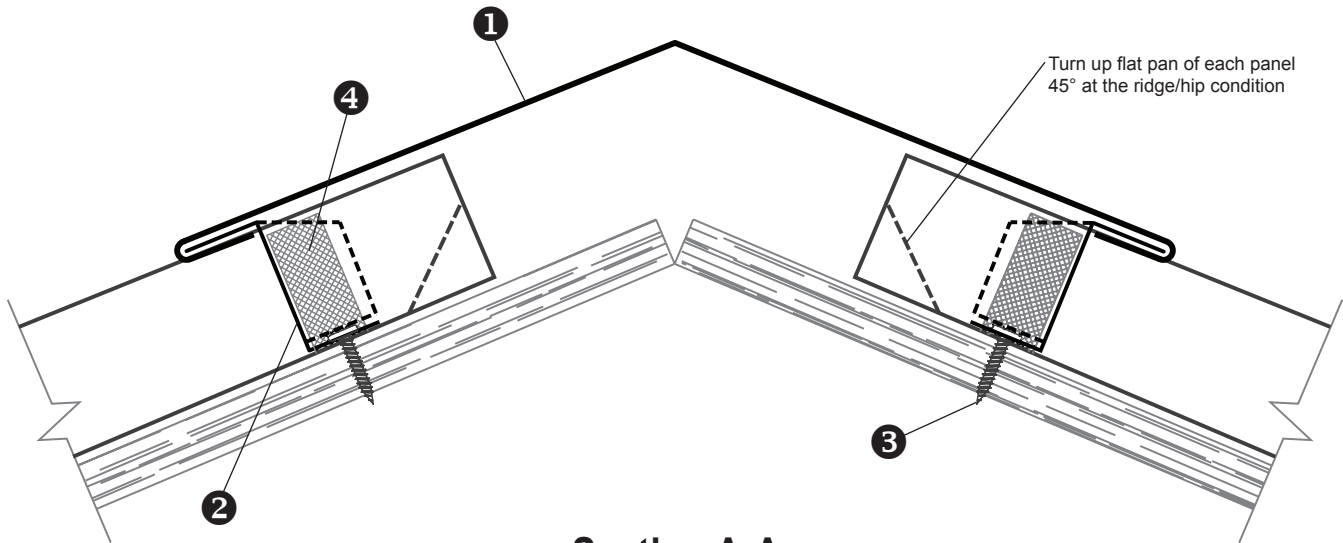


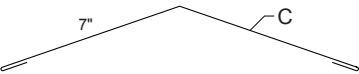
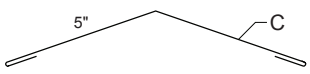
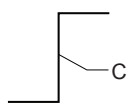
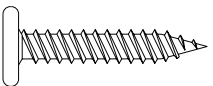



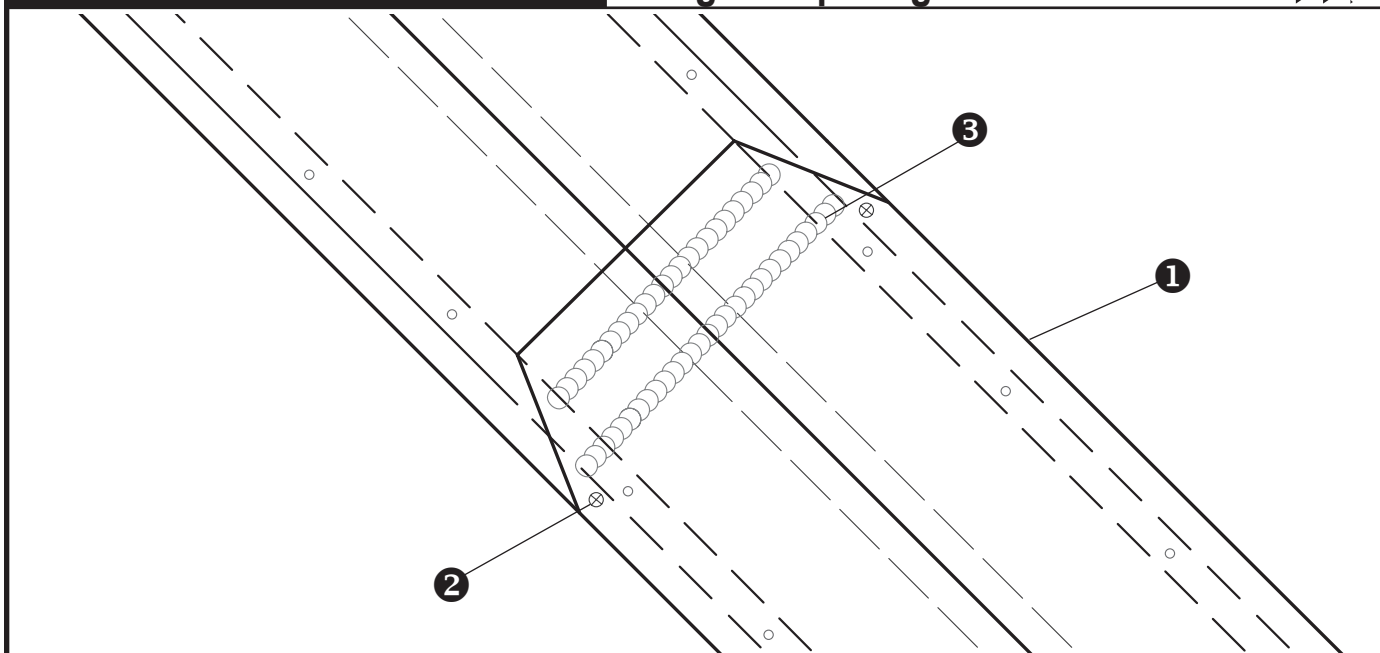
Residential Rakewall Flashing Lap Detail



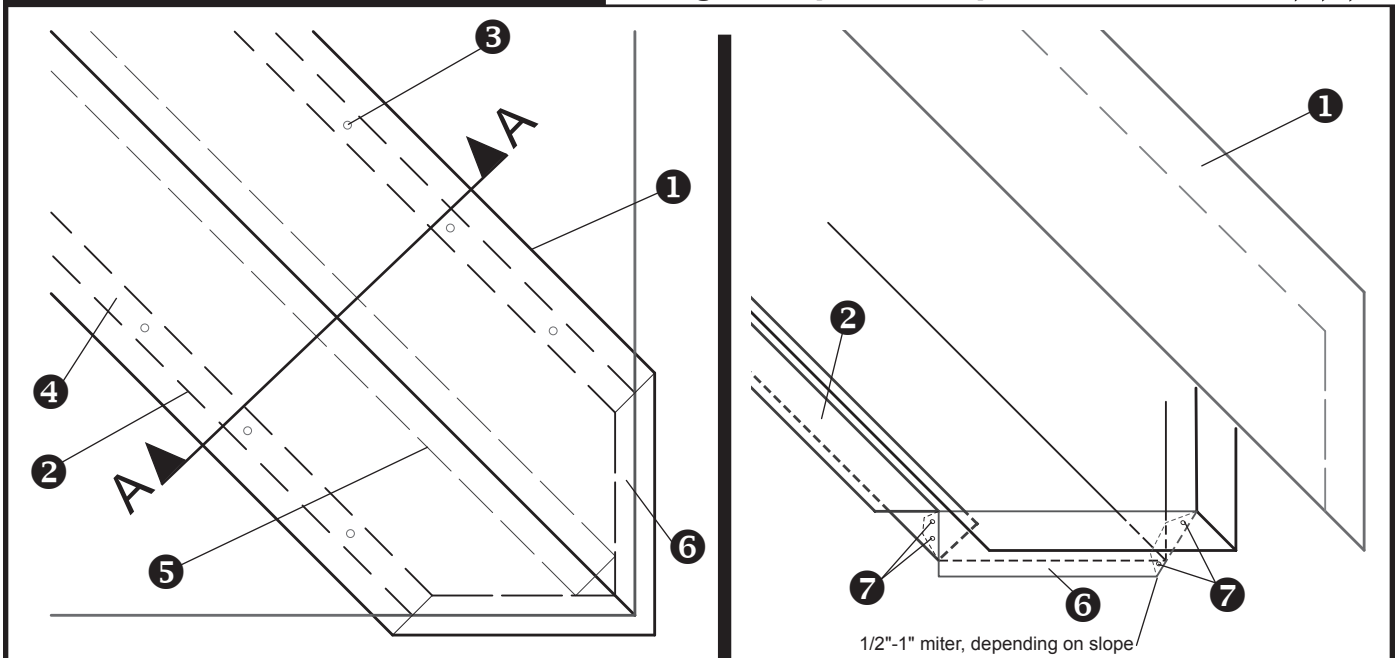
	Part	Description	Product No.	Length	Installation Information
1		Residential Rakewall	50129XX 26 Gauge	10'-2"	► Slide Residential Rakewall over the Image II panel edge.
2		Tube Sealant	6403200 64032XX		► Apply a continuous bead of Tube Sealant to the slip pocket.
3		Tube Sealant	6403200 64032XX		► Apply a continuous bead of Tube Sealant to the inside corner of the panel prior to attaching the flashing. ► Push flashing down over the panel turn-up and into the sealant. ► Wipe away excess sealant with finger or plastic caulk smoothing tool.

**Section A-A**

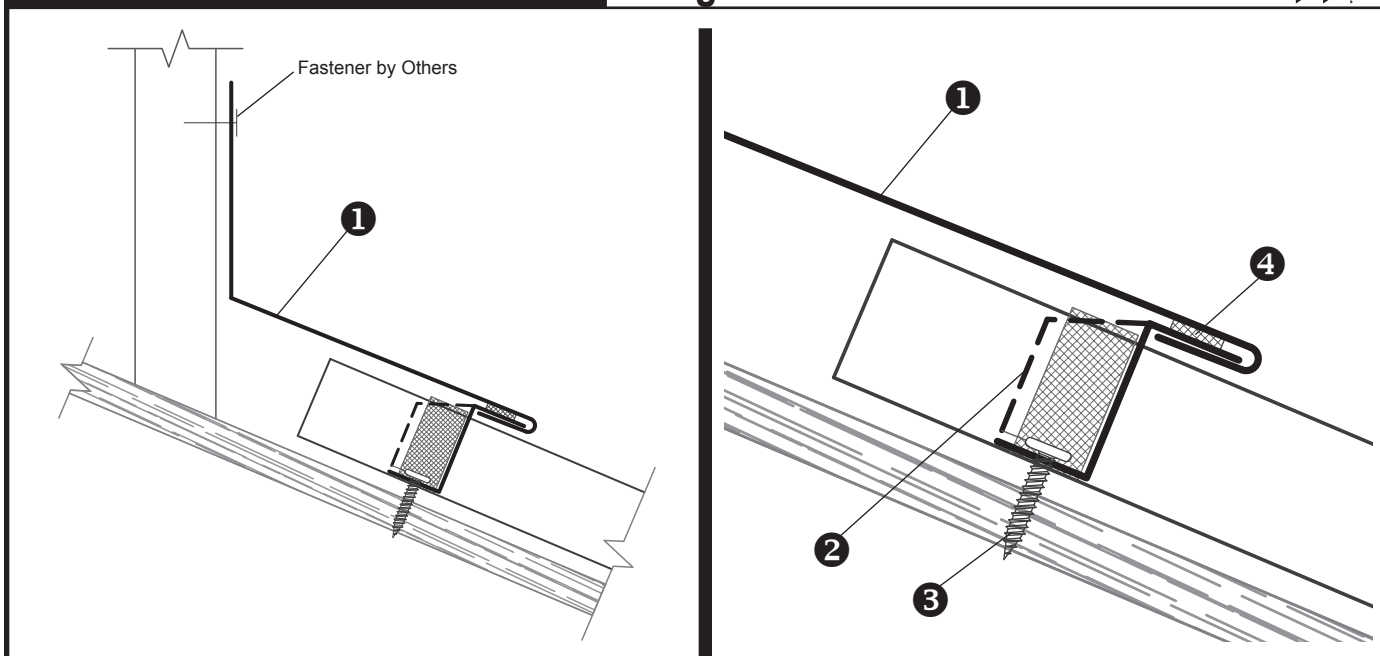
	Part	Description	Product No.	Length	Installation Information
<b>1</b>		7" Ridge/Hip Cover	50131XX 26 Gauge	10'-2"	► Slide Ridge/Hip Cover over top flange of Z-Closures.
		5" Ridge/Hip Cover	50130XX 26 Gauge		
<b>2</b>		Image II Z-Closure	55603XX 26 Gauge	10'-2"	► 1" end tabs on Z-Closure.
<b>3</b>		Pancake Head Wood Screw	8243100	1"	► 4 at every Z-Closure fastening through the Z-Closure and Double Bead Tape Sealant.
<b>4</b>		Double Bead Tape Sealant	6403899	25'	► Continuous Double Bead Tape Sealant required over face of panels and up and over ribs.

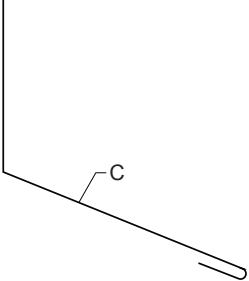
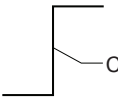
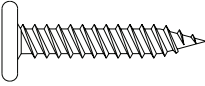



	Description	Installation Information
1	Ridge/Hip Cover	► Telescope notch each piece 3" at high side and fasten to the adjacent Ridge/Hip Flashing with a Pop Rivet on each side.
2	Pop Rivet	► 2 Pop Rivets per notched tab, attaching the flashings.
3	Tube Sealant	► Apply two rows of Tube Sealant between the two lapped flashings.

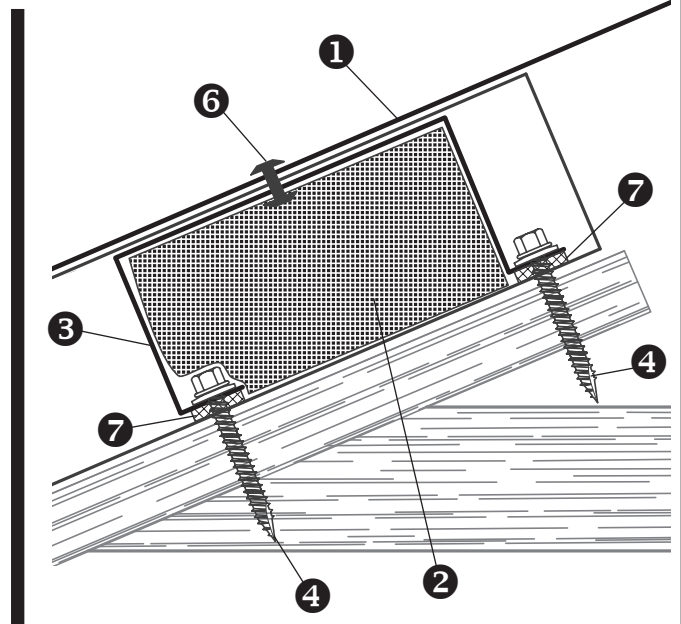
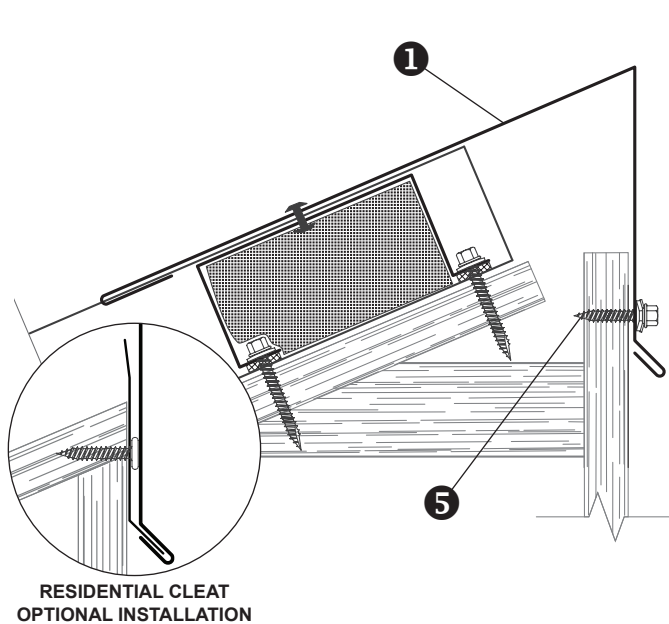


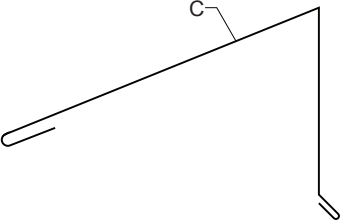

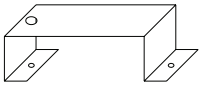
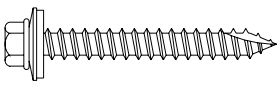
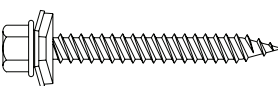
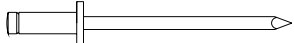

	Description	Installation Information
1	Ridge/Hip Cover	► Open hems of the Hip Flashing slide onto 1" top flanges of Z-Closure. Fold 1" hems over top flashings of Image II end cap. Attach high side of flashing as shown on page 38.
2	Image II Z-Closure	► Z-Closures over continuous Double Bead Tape Sealant.
3	Pancake Head Wood Screw	► Attach Image II Z-Closures with Pancake Head Wood Screws or Truss Head Wood Screws.
4	Double Bead Tape Sealant	► Double Bead Tape Sealant required under Z-Closures and over panel ribs. A weep hole/gap in the Double Bead Tape Sealant is required at the low side of the Z-Closure, along the panel rib.
5	Image II Panel	► Turn the Image II panel ends turned up to vertical 1" at the hip.
6	Image II End Cap	► Lower flange of End Cap covers the panel hem.
7	Pop Rivet	► 2 Pop Rivets per miter, attaching End Caps to the Z-Closures.

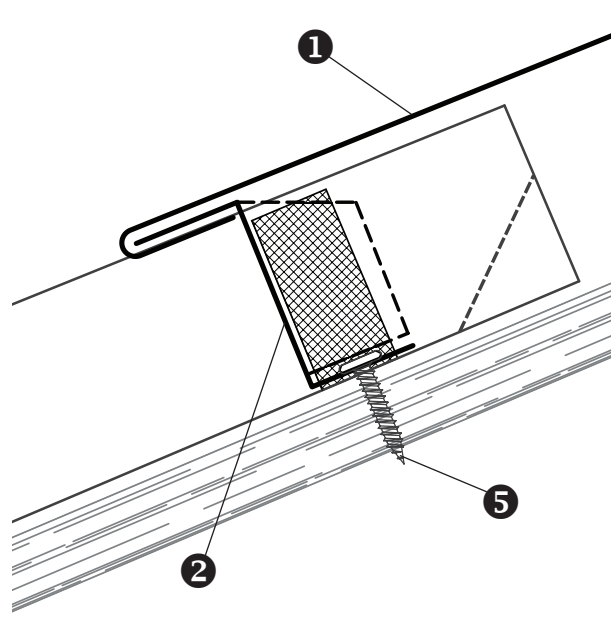
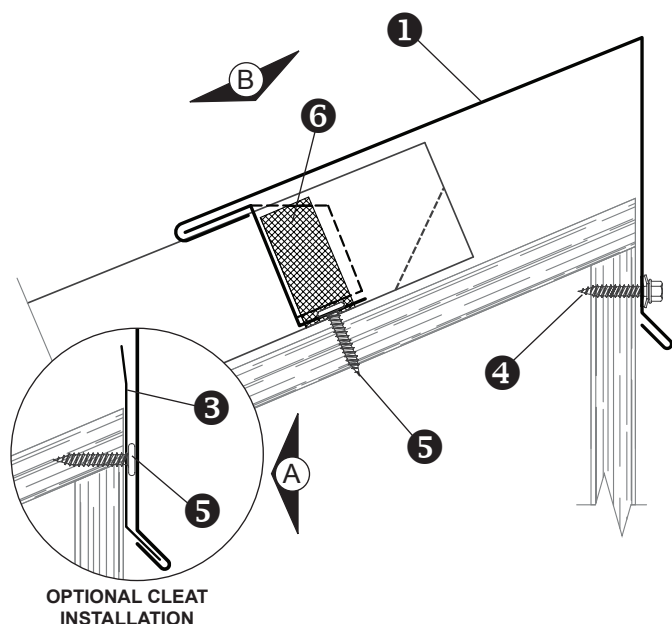


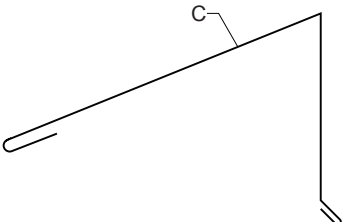
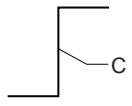
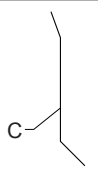
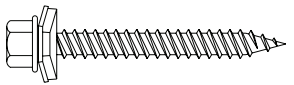
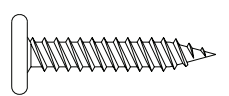

	Part	Description	Product No.	Length	Installation Information
1		Residential Pitch Break	53943XX 26 Gauge	10'-2"	► Open hem hooks onto Z-Closure.
2		Image II Z-Closure	55603XX 26 Gauge	10'-2"	► 1" end tabs on Z-Closure
3		Pancake Head Wood Screw	8243100	1"	► 4 required at every Z-Closure fastening through the Double Bead Tape Sealant.
4		Double Bead Tape Sealant	6403899	25'-0"	► Continuous Double Bead Tape Sealant required over face of panels and up and over ribs. ► Continuous Double Bead Tape Sealant required over top of Z-Closures.



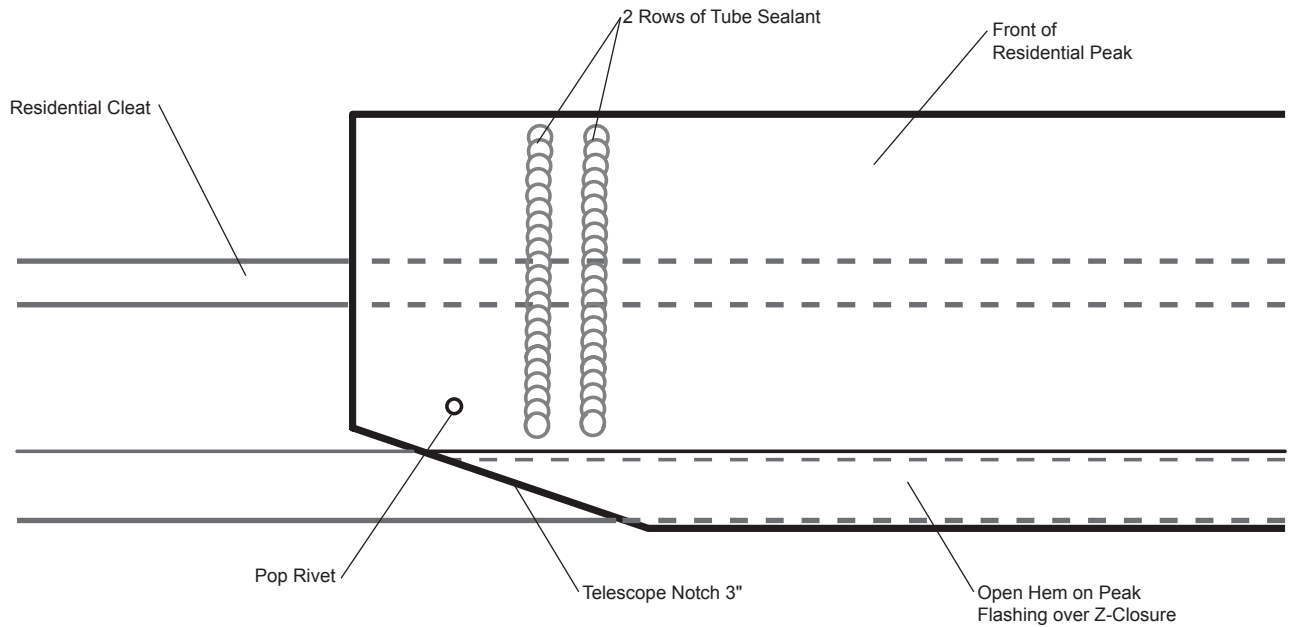


	Part	Description	Product No.	Length	Installation Information
1		Residential Peak	50134XX 26 Gauge	10'-2"	► Peak flashing face can be attached directly to substrate or hooked on optional Residential Cleat.
2		Profile Vent	Notched 12" 6441799 Notched 16" 6441899	100'	► Lay over panel ribs between Peak Flashing and panel.
3		Image II Profile Vent Clip	6540000	3 1/8"	► Place over Profile Vent and fasten with two 1 1/2" Metalwood screws. ► Install 2 clips per panel.
4		#14-1 1/2" Metalwood Screw	8215100	1 1/2"	► 2 per Profile Vent Clip. ► Fasten through Double Bead Tape Sealant on the low side.
5		#10-14 x 1 1/2" Wood Screw	82103XX	1 1/2"	► 1 per lineal foot of condition. ► *Optional Pancake Head Wood Screw can be used with Residential Cleat.
6		1/8" x 3/16" Pop Rivet	82409XX		► Fasten Pop Rivet through the Peak into the Profile Vent Clip. ► *Optional install Stitch Screw.
7		Double Bead Tape Sealant	6403899	25'	► Double Bead Tape Sealant required at the low side and high side of each Profile Vent Clip.

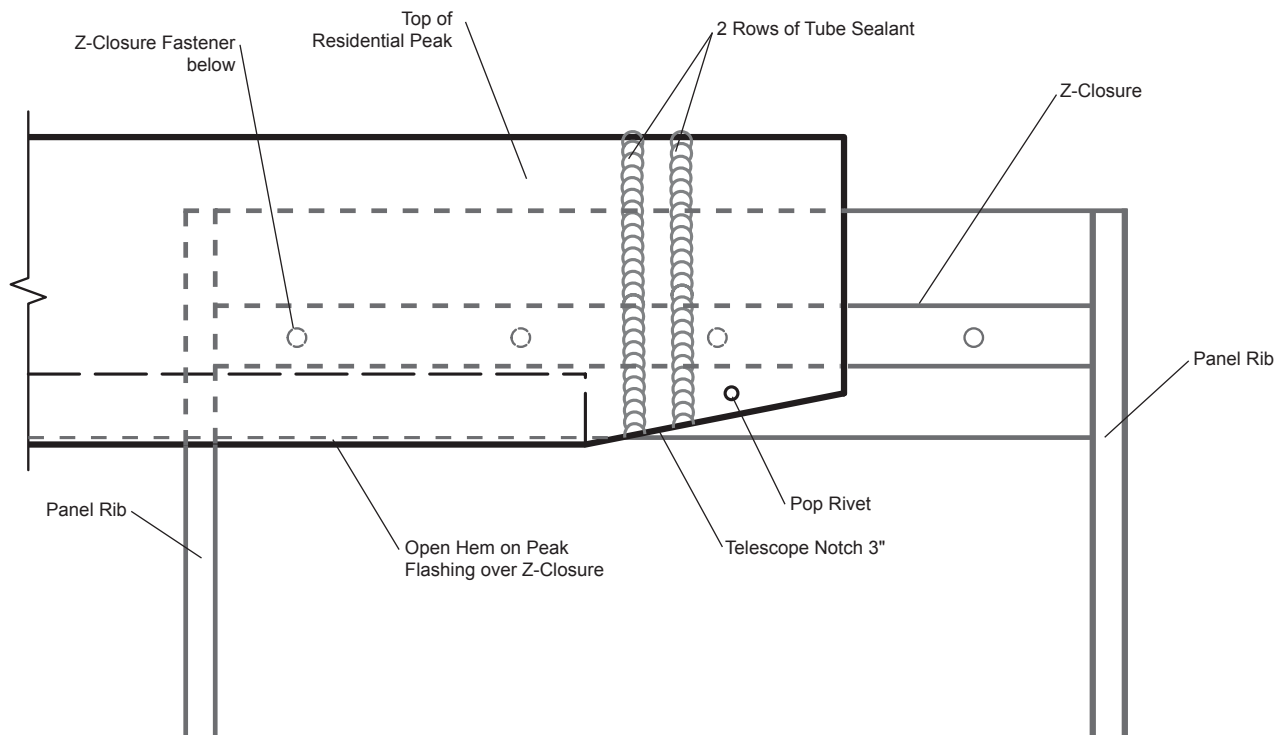


	Part	Description	Product No.	Length	Installation Information
1		Residential Peak	50134XX 26 Gauge	10'-2"	► Peak flashing face can be attached directly to substrate or hooked on Residential Cleat.
2		Image II Z-Closure	55603XX 26 Gauge	10'-2"	► 1" tabs required on Z-Closure.
3		Residential Cleat	5013599 26 Gauge	10'-2"	► Optional concealed fastener installation. ► Fasten with Pancake Head Wood Screws 1 per lineal foot.
4		#10-14 x 1 1/2" Wood Screw	82103XX	1 1/2"	► 1 per lineal foot of condition. ► Not used if optional Residential Cleat is installed.
5		Pancake Head Wood Screw	8243100	1"	► 4 required at every Z-Closure fastening through the Double Bead Tape Sealant. ► 1 per lineal foot of Offset Cleat.
6		Double Bead Tape Sealant	6403899	25'	► Continuous Double Bead Tape Sealant required over face of panels and up and over ribs.

## Peak Flashing Lap - Front View



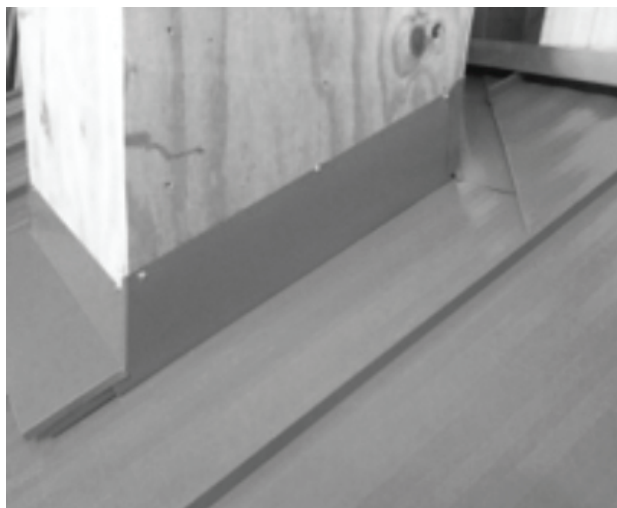
## Peak Flashing Lap - Top View



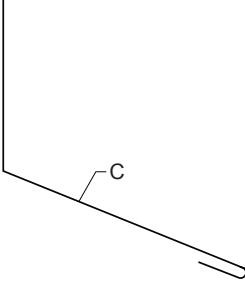
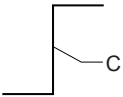
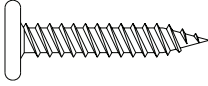


## SKYLIGHT INSTALLATION



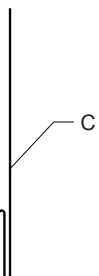

## CHIMNEY INSTALLATION



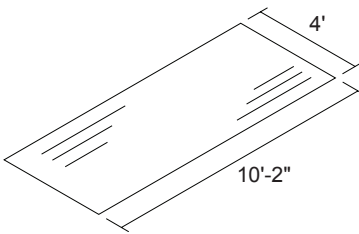
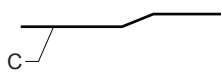
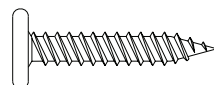


## LOW SIDE OF SKYLIGHT/CHIMNEY

Part	Description	Product No.	Length	Installation Information
	Residential Pitch Break	53943XX 26 Gauge	10'-2"	► Cut 2'-0" longer than the width of the Skylight or Chimney.
	Vertical Seam Z-Closure Image II Z-Closure	55702XX 26 Gauge 55603XX 26 Gauge	10'-2"	► 1" end tabs on Z-Closure.
	Pancake Head Wood Screw	8243100	1"	► 4 required at every Z-Closure fastening through the Double Bead Tape Sealant.
	Double Bead Tape Sealant	6403899	25'-0"	► Continuous Double Bead Tape Sealant over face of panels and up and over ribs. ► Continuous Double Bead Tape Sealant over top of Z-Closures.
	Tube Sealant	6403200 64032XX		► Fill in gaps as needed.

## RIGHT AND LEFT SIDE

Part	Description	Product No.	Length	Installation Information
	Residential Rakewall	50129XX 26 Gauge	10'-2"	<ul style="list-style-type: none"> <li>▶ Cut the Residential Rakewall 2'-0" longer than the length of the Skylight or Chimney. Use a single flashing, no laps.</li> <li>▶ Slide Residential Rakewall over the vertical panel edge.</li> </ul>
	Tube Sealant	6403200 64032XX		<ul style="list-style-type: none"> <li>▶ Apply a continuous bead of Tube Sealant to the slip pocket and inside corner of panel (see rakewall detail).</li> </ul>

## HIGHSIDE OF SKYLIGHT/CHIMNEY

Part	Description	Product No.	Length	Installation Information
	Flat Sheet	25683XX 26 Gauge	10'-2"	<ul style="list-style-type: none"> <li>▶ Flat pan only - Use full sheet for fabrication of cricket.</li> <li>▶ 12" plus height up the Skylight/Chimney.</li> <li>▶ Dimension from full panel rib on each side of the Skylight/Chimney.</li> </ul>
	Offset Cleat	5506499 26 Gauge	10'-2"	<ul style="list-style-type: none"> <li>▶ Cut the Offset Cleat 4'-0" longer than the width of the Skylight or Chimney.</li> </ul>
	Pancake Head Wood Screw	8243100	1"	<ul style="list-style-type: none"> <li>▶ 1 Pancake Head Wood Screw every 6" of the Offset Cleat.</li> <li>▶ Fasten through the Double Bead Tape Sealant.</li> </ul>
	Double Bead Tape Sealant	6403899	25'-0"	<ul style="list-style-type: none"> <li>▶ Apply to the panel before attaching the Offset Cleat.</li> </ul>
	Tube Sealant	6403200 64032XX		<ul style="list-style-type: none"> <li>▶ Apply under flat pan or cricket and at the corners of the penetration.</li> </ul>

Though factory applied pre-painted finishes are very durable and will last many years, eventually it may be desirable to thoroughly clean or repaint them.

Dirt pickup may cause apparent discoloration of the paint when it has been exposed in some dirt laded atmospheres for long periods of time. In areas of strong sunlight, slight chalking may cause some change in appearance. A good cleaning will often restore the appearance of these buildings and render repainting unnecessary. An occasional light cleaning will help maintain a good appearance.

In many cases, simply washing the building with plain water using a hose or pressure sprayer will be adequate. In areas where heavy dirt deposits dull the surface, a cloth or soft bristle brush and solution of water and detergent ( $\frac{1}{3}$  cup of laundry detergent per gallon of water for example) may be used. This should be followed by an adequate rinse of water. Do not use wire brushes, abrasives, or cleaning tools which will scratch the coating surface.

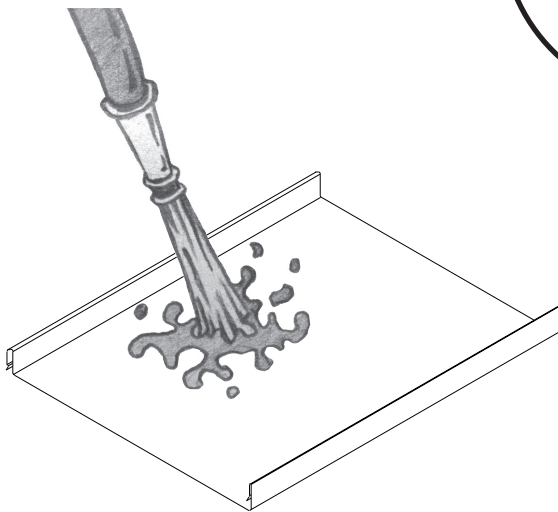
Mildew may occur in areas subject to high humidity but is not normally a problem due to the high inherent mildew resistance of the baked finish that is used. However, mildew can grow on dirt and spore deposits in some cases. To remove mildew along with the dirt, the following solution is recommended.

- $\frac{1}{3}$  cup detergent (Tide® or equivalent)
- $\frac{2}{3}$  cup trisodium phosphate (Solex® or equivalent)
- 1 quart of 5% sodium hypochlorite solution (Clorox® or equivalent)
- 3 quarts of water

Strong solvents and abrasive type cleaners should be avoided. Most organic solvents are flammable and toxic, and must be handled accordingly. When using a solvent, consult maintenance professionals and label instructions for proper handling and disposal of washings. If required, a mild solvent such as mineral spirits can be used to remove caulking compounds, oil, grease, tars, wax, and similar substances. Use a cloth dampened with mineral spirits and apply only to areas which are contaminated. Follow up the use of this mild solvent with detergent cleaning and rinsing.



**DO NOT USE A  
WIRE BRUSH**



**HOSE OR PRESSURE SPRAY  
FOR ADEQUATE CLEANING**



**USE MILD DETERGENT AND WATER  
FOR HEAVY DIRT DEPOSITS**



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