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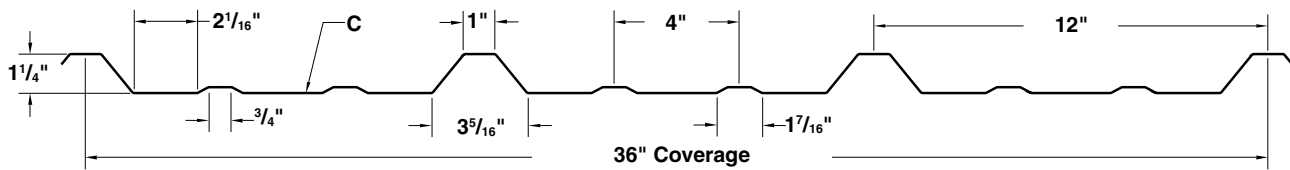
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**Notes**

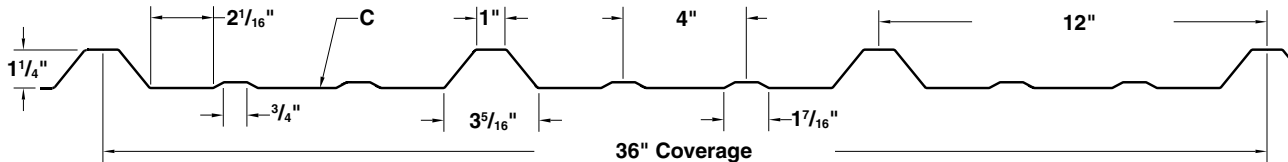
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# R-PANEL PANEL OVERVIEW

## R-PANEL PROFILE



## PBR-PANEL PROFILE



## SLOPE

The minimum recommended slope for any "R" and "PBR"-Panel is 1:12. Metal Sales recommends that in all roof applications sealant be used on sidelaps.

## SUBSTRATE

R-Panel is designed to be utilized over open structural framing, but can easily be used with a solid substrate. The recommended substrate is 5/8" plywood with a 30 pound felt moisture barrier. To avoid panel distortion, use a properly aligned and uniform substructure. **PBR-Panel is recommended for roof applications.**

## COVERAGE

Each panel has a coverage of 36".

## LENGTH

Lengths under 5'-0" are available with some cutting restrictions. Maximum recommended panel length is 45'-0". Longer panels require additional consideration in packaging, shipping, and erection. Please consult your Metal Sales branch for recommendations (see PGI-2 and PGI-3 for locations).

## AVAILABILITY

Panels are available in 26, 24, and 22 gauge. Minimum quantities may apply.

## APPLICATION

Commercial, Industrial, and Architectural panels.

## PERFORMANCE TEST

UL 580, UL 2218, UL 790, Texas Department of Insurance, Cantilever Diaphragm.

## FASTENING SYSTEM

Direct Fastened (exposed).

## FASTENERS

The fastener selection guide should be consulted for choosing proper fasteners for specific applications. Quantity and type of fastener must meet necessary loading and code requirements (see PGI-12-14).

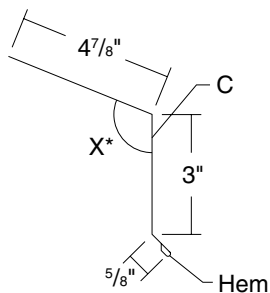
## MATERIALS

Steel grade 50 per ASTM A-792  
Steel grade 80 per ASTM A-792 or ASTM A-653

## FINISH

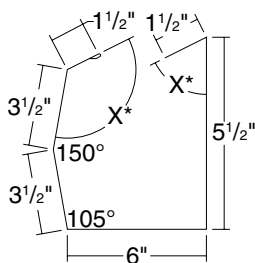
- ▶ \*Acrylic Coated Galvalume® (ACG) / ASTM A-792 - AZ55
- ▶ Prepainted Galvalume / ASTM A-792 - AZ50
- ▶ MS Colorfast30®
- ▶ \*\*Fluorocarbon (PVDF)
  - \* Differential appearance of Acrylic Coated Galvalume roofing materials is not a cause for rejection.
  - \*\* Meets both Kynar 500 and Hylar 5000 specifications.

**EAVE (DIRECT FASTEN)**



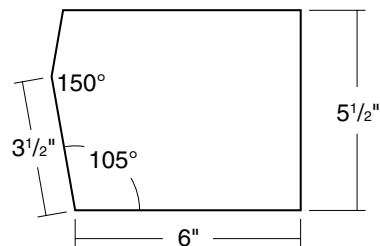
Length 10'-2" - \*Specify Slope Angle

**SCULPTURED GUTTER**

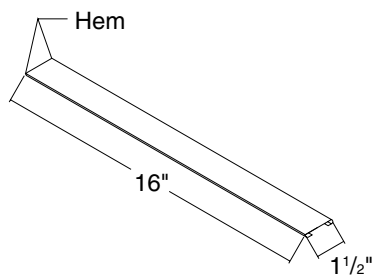


Length 10'-2", 20'-3" - \*Specify Slope Angle

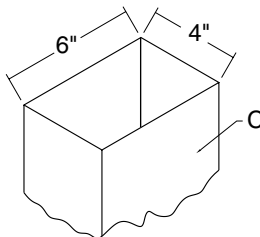
**SCULPTURED GUTTER END**



**UNIVERSAL GUTTER/ DOWNSPOUT STRAP**

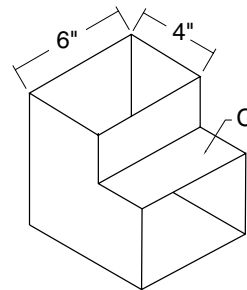


**DOWNSPOUT 6" x 4"**



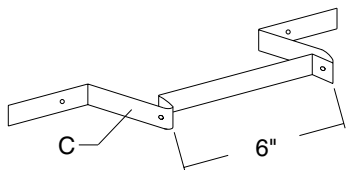
Length 10'-2", 20'-3" (Also available 4" x 3 1/2")

**95° ELBOW 6" x 4"**



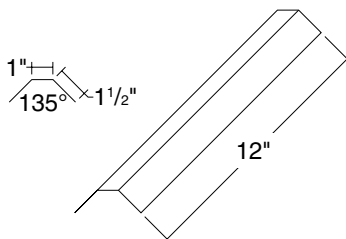
(Also available 4" x 3 1/2")

**DOWNSPOUT BRACKET**

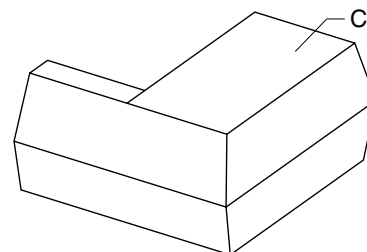


(Also available 4")

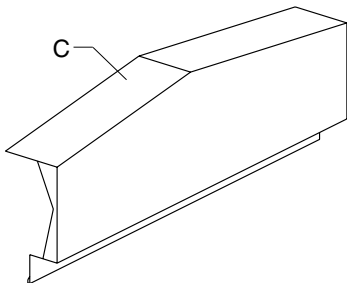
**GUTTER HANGER**



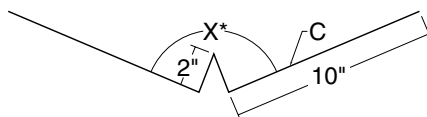
**SCULPTURED CORNER BOX**



**SCULPTURED PEAK BOX**

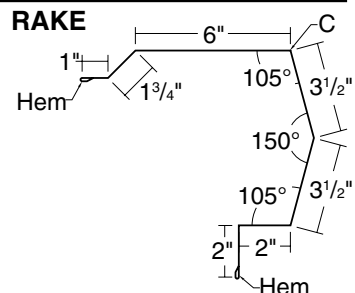


**VALLEY**



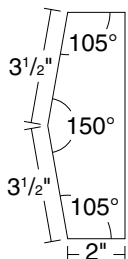
Length 10'-2", 20'-3" - \*Specify Slope Angle

**R-PANEL SCULPTURED**

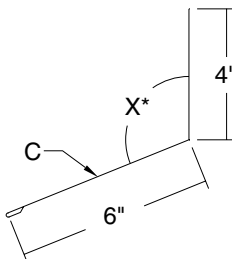


Length 10'-2", 20'-3"

**SCULPTURED RAKE END**

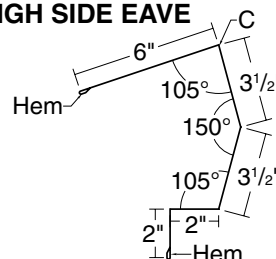


**PITCH BREAK**



Length 10'-2" - \*Specify Slope Angle

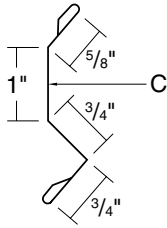
**SCULPTURED HIGH SIDE EAVE**



Length 10'-2", 20'-3"

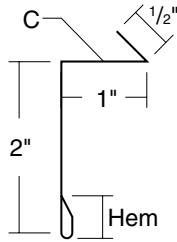
# R-PANEL FLASHING PROFILES (CONT.)

## COUNTER FLASHING



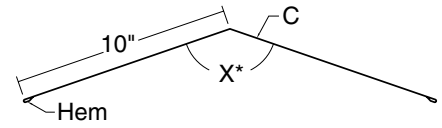
Length 10'-2"

## REGLET FLASHING



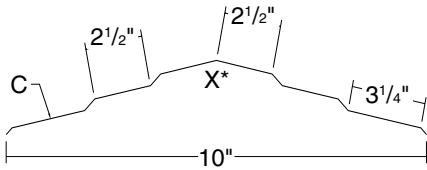
Length 10'-2"

## 20" RIDGE/HIP COVER



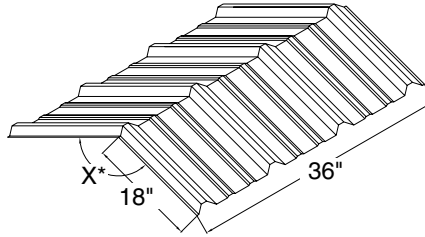
Length 10'-2", 20'-3" - \*Specify Slope Angle

## UNIVERSAL RIDGE COVER



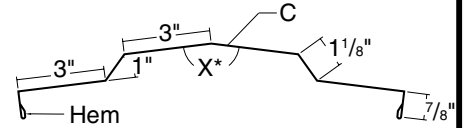
Length 10'-2" - \*Specify Slope Angle

## R-PANEL FORMED RIDGE



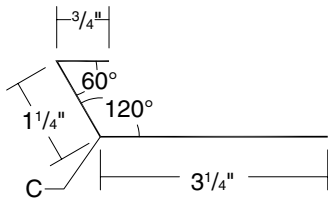
\*Specify Slope Angle

## VENTED RIDGE COVER



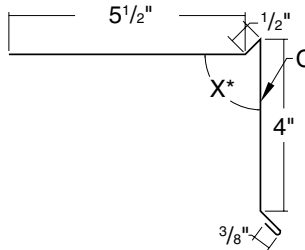
Length 10'-2", 20'-3" - \*Specify Slope Angle

## VENT DRIP



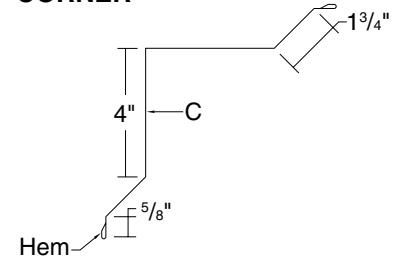
Length 10'-2"

## GRAVEL STOP



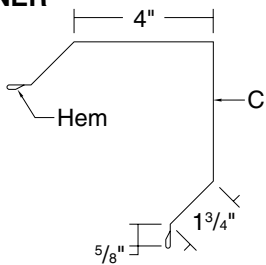
Length 10'-2", 20'-3" - \*Specify Slope Angle

## R-PANEL INSIDE CORNER



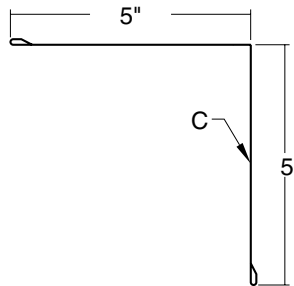
Length 10'-2", 14'-2", 20'-3"

## R-PANEL OUTSIDE CORNER



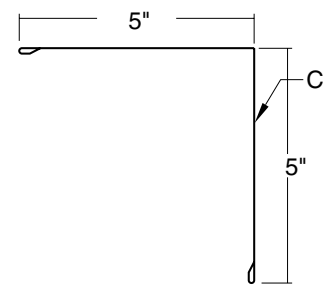
Length 10'-2", 14'-2", 20'-3"

## INSIDE CORNER



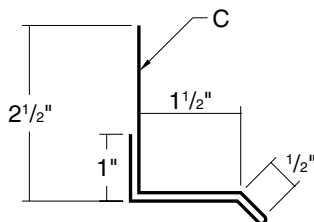
Length 10'-2", 20'-3"

## OUTSIDE CORNER



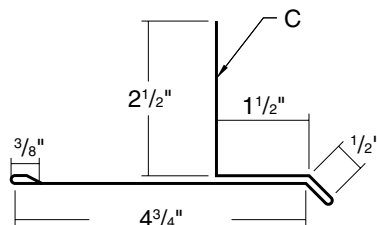
Length 10'-2", 20'-3"

## 1.5" SILL/HEAD



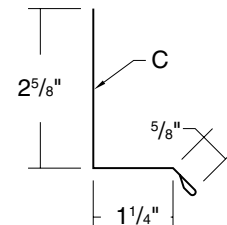
Length 10'-2"

## 1.5" SILL TO SOFFIT



Length 10'-2"

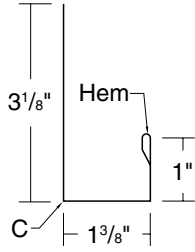
## 1.25" BASE



Length 10'-2"

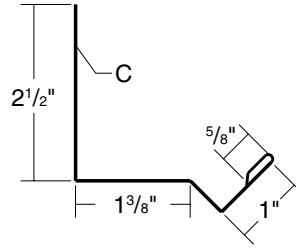
# R-PANEL FLASHING PROFILES (CONT.)

## R-PANEL JAMB



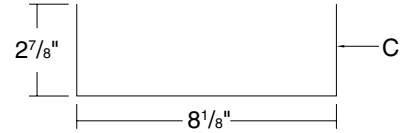
Length 7'-3", 10'-2", 14'-2"

## HEAD CHANNEL



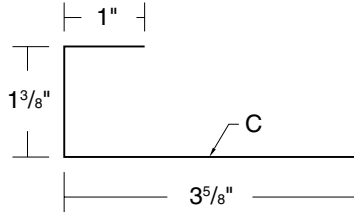
Length 10'-2"

## HEAD/JAMB COVER



Length 10'-2", 14'-2"

## R-PANEL C-CLOSURE



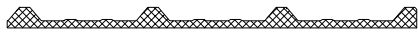
Length 10'-2"

C- Indicates color side of flashing.

**R-PANEL CLOSURES**



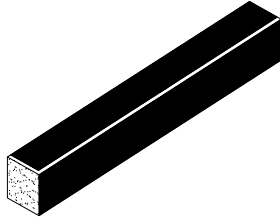
Outside Closure



Inside Closure

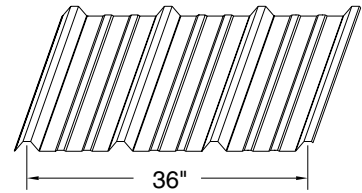
Synthetic Rubber

**UNIVERSAL CLOSURE**



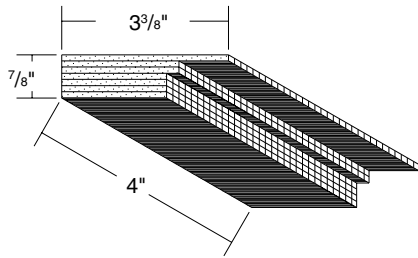
1" x 1 1/2" x 50' Polyethylene Foam  
1" x 1 1/2" x 10' Polyethylene Foam

**R-PANEL LIGHT TRANSMITTING PANEL**

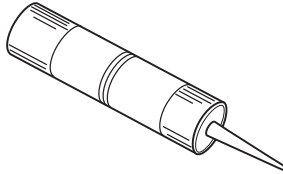


8 Ounce White Fiberglass

**VENT MATERIAL**



**TUBE SEALANT**



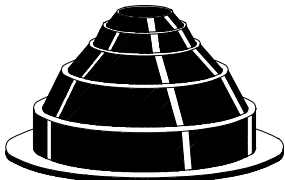
10.3 oz. Cartridge Urethane

**TAPE SEALANT**



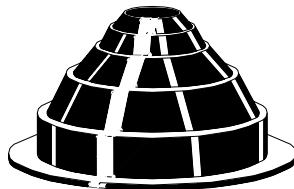
3/8" X 3/32" X 50'  
Single Bead Butyl - Gray

**RUBBER ROOF JACK**



MINI (1/4" to 1 1/8" O.D. Pipe)  
#2 (1 3/4" to 3" O.D. Pipe)  
#4 (3" to 6" O.D. Pipe)  
#6 (6" to 9" O.D. Pipe)  
#8 (7" to 13" O.D. Pipe)

**RETRO ROOF JACK**



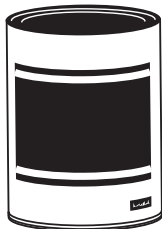
#801<sub>RETRO</sub> (3/4" to 2 3/4" O.D. Pipe)  
#802<sub>RETRO</sub> (2" to 7 1/4" O.D. Pipe)  
#803<sub>RETRO</sub> (3 1/4" to 10" O.D. Pipe)

**RUBBER ROOF FLASH KIT**



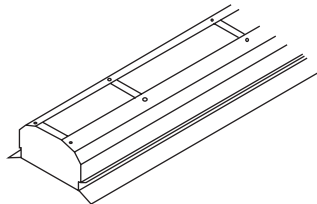
12" x 50'-0" Flash Kit  
18" x 50'-0" Flash Kit

**TOUCH-UP PAINT**



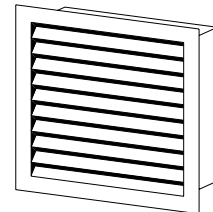
Available in pints  
PVDF / MS CF30

**CONTINUOUS RIDGE VENT**



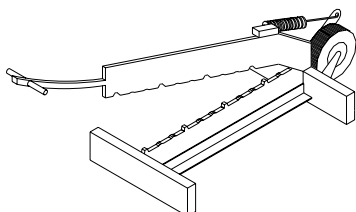
9" x 10', 12" x 10'

**LOUVER WITH SCREEN**

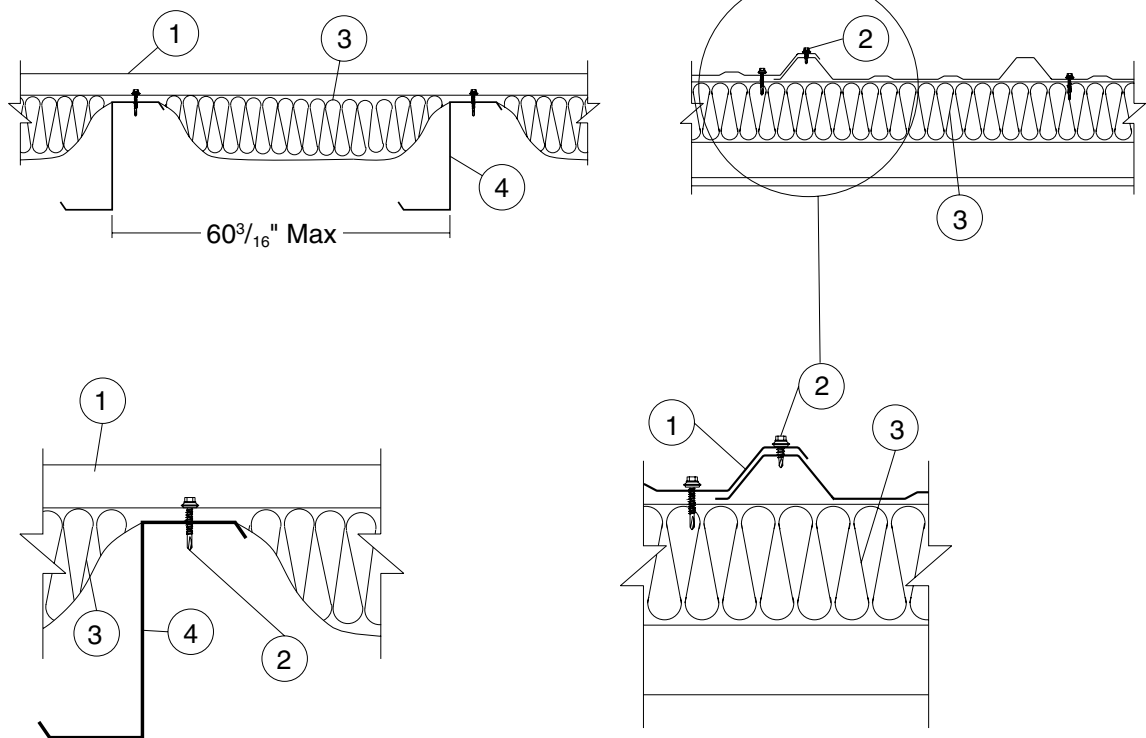


3' x 3', 3' x 4'

**R-PANEL SHEAR**



# R-PANEL



## R-PANEL

### Construction No. 161

November 02, 2001

Uplift - Class 90

Fire Not Investigated

**1. Metal Roof Deck Panels\*** No. 26 MSG min gauge coated steel. Panels continuous over two or more spans. End laps to occur over purlins with panels overlapped a min of 4 in. with lap centered over purlin web. A line of tape sealant may be used at panel side and end laps.

Metal Sales Manufacturing Corporation "R-Panel" "PBR-Panel".

**2. Panel Fasteners** For panel to panel and panel to purlin connections to be No. 12-14 by 1 in. self-drilling, self-tapping, hex head, plated steel screws with a 5/8 in. OD formed steel washer and a neoprene sealing washer.

As alternate Fasteners - For panel to purlin connections, 1/4 - 14 HHAB self-tapping, plating steel screws, with a separate 5/8 in. OD dome shaped steel washer and a neoprene sealing washer may be used.

Or: No. 14-10HHA, self-tapping, plating steel screws, with a separate, 5/8 in. OD dome shaped steel washer and a neoprene sealing washer may be used.

Spacing, for panel - to - purlin connections to be 12 in. on center beginning 2 - 1/2 in. from center line on one side of each major rib. Spacing at end lap to be in a 5 - 7 - 5 - 7 in. pattern beginning 2 - 1/2 in. from the center line on both sides of each major rib.

Fastener for panel to purlin connection to be 1-1/4 in. long when insulation (Item 3) is greater than 4-1/2 in.

Spacing for panel - to - panel connections to be 20 in. on center with a fastener located in line with the purlin fasteners.

**3. Insulation** (Optional) - Any compressible blanket insulation 6 in. max thickness before compression.

**4. Purlin** No. 16 MSG min gauge steel (50,000 psi min yield).

**5. Lateral Bracing** (Not shown) - As required.

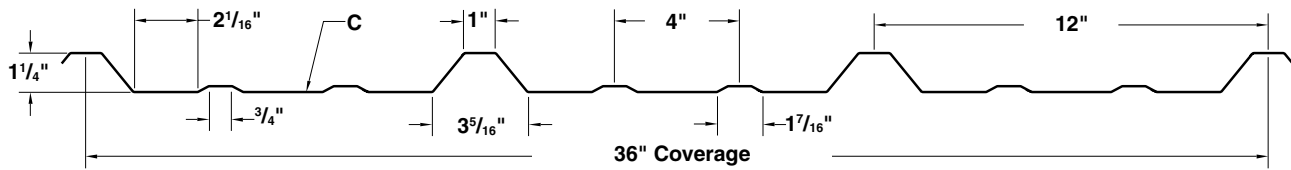
Refer to General Information, Roof Deck Construction, (Roofing Materials and Systems Directory) for items not evaluated.

\* Bearing the UL Classification Mark.



Underwriters Laboratories Inc. ®

LISTED



**R-PANEL SECTION PROPERTIES**

GAUGE	WIDTH (in)	YEILD KSI	WEIGHT PSF	TOP IN COMPRESSION <sup>1</sup>			BOTTOM IN COMPRESSION <sup>1</sup>		
				Ixx in <sup>4</sup> /ft	Sxx in <sup>3</sup> /ft	Ma (k-in)	Ixx in <sup>4</sup> /ft	Sxx in <sup>3</sup> /ft	Ma (k-in)
26	36"	80	.87	.0350	.0348	1.25	.0293	.0439	1.58
24	36"	50	1.13	.0543	.0558	1.67	.0427	.0595	1.78
22	36"	50	1.45	.0767	.0814	2.44	.0600	.0790	2.37

**ALLOWABLE UNIFORM LIVE LOADS PSF<sup>1.2.3.4.</sup>**

1-Span			Inward (Gravity / Deflection) Load <sup>2.4.</sup>						Outward Uplift (Stress) Load <sup>3.</sup>					
GA.	Width	Ksi	2'	3'	4'	5'	6'	7'	2'	3'	4'	5'	6'	7'
26	36"	80	208	94	48	25	14	9	351	156	88	56	39	29
24	36"	50	278	124	70	38	22	14	396	176	99	63	44	32
22	36"	50	406	180	102	54	31	20	526	234	131	84	58	43

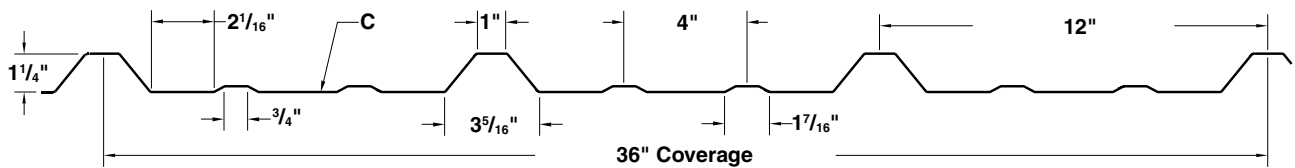
2-Equal Spans			Inward (Gravity / Deflection) Load <sup>2.4.</sup>						Outward Uplift (Stress) Load <sup>3.</sup>					
GA.	Width	Ksi	2'	3'	4'	5'	6'	7'	2'	3'	4'	5'	6'	7'
26	36"	80	211	105	62	40	28	21	239	115	67	43	30	22
24	36"	50	275	128	73	47	33	24	347	160	91	59	41	30
22	36"	50	376	172	97	63	44	32	516	235	134	86	60	44

3 or more-Equal Spans			Inward (Gravity / Deflection) Load <sup>2.4.</sup>						Outward Uplift (Stress) Load <sup>3.</sup>					
GA.	Width	Ksi	2'	3'	4'	5'	6'	7'	2'	3'	4'	5'	6'	7'
26	36"	80	235	119	71	47	27	17	270	132	77	50	35	26
24	36"	50	316	147	85	55	38	27	398	185	106	68	48	35
22	36"	50	434	199	113	73	51	37	594	273	155	100	70	51

1. Theoretical section properties have been calculated per AISI 1996. "Specifications for the design of cold formed steel members." Ixx and Sxx are effective section properties for deflection and bending.
2. Tabulated loads are allowable loads calculated in accordance with good engineering practices and with AISI 1996 specifications for bending stresses. Panel weight has not been subtracted from allowable gravity loads. Allowable load does not address web crippling requirement, or fasteners/support connection.
3. Allowable loads are calculated in accordance with AISI 1996 specifications, and have been increased by 33 1/3% for wind uplift. Contact Metal Sales Technical Services Department for more information.
4. Deflection consideration is limited by a maximum deflection ratio of L/180 of span.





**PBR-PANEL SECTION PROPERTIES**

GAUGE	WIDTH (in)	YEILD KSI	WEIGHT PSF	TOP IN COMPRESSION <sup>1</sup> :			BOTTOM IN COMPRESSION <sup>1</sup> :		
				Ixx in <sup>4</sup> /ft	Sxx in <sup>3</sup> /ft	Ma (k-in)	Ixx in <sup>4</sup> /ft	Sxx in <sup>3</sup> /ft	Ma (k-in)
26	36"	80	0.91	.0360	.0358	1.29	.0307	.0449	1.61
24	36"	50	1.17	.0567	.0578	1.73	.0443	.0609	1.82
22	36"	50	1.51	.0800	.0855	2.56	.0633	.0808	2.42

**ALLOWABLE UNIFORM LIVE LOADS PSF<sup>1,2,3,4</sup>**

1-Span			Inward (Gravity / Deflection) Load <sup>2,4</sup>						Outward Uplift (Stress) Load <sup>3</sup>					
GA.	Width	Ksi	2'	3'	4'	5'	6'	7'	2'	3'	4'	5'	6'	7'
26	36"	80	214	95	49	25	15	9	358	159	90	57	40	29
24	36"	50	288	128	72	39	23	14	405	180	101	65	45	33
22	36"	50	426	190	107	56	32	20	538	239	134	86	60	44

2-Equal Spans			Inward (Gravity / Deflection) Load <sup>2,4</sup>						Outward Uplift (Stress) Load <sup>3</sup>					
GA.	Width	Ksi	2'	3'	4'	5'	6'	7'	2'	3'	4'	5'	6'	7'
26	36"	80	224	109	64	42	29	22	252	120	69	45	31	23
24	36"	50	286	131	75	48	34	25	364	167	95	61	42	31
22	36"	50	388	176	100	64	45	33	545	248	141	90	63	46

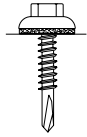
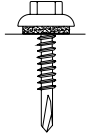
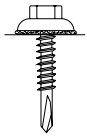
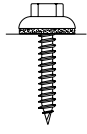
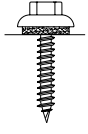
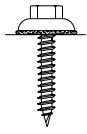
3 or more-Equal Spans			Inward (Gravity / Deflection) Load <sup>2,4</sup>						Outward Uplift (Stress) Load <sup>3</sup>					
GA.	Width	Ksi	2'	3'	4'	5'	6'	7'	2'	3'	4'	5'	6'	7'
26	36"	80	250	125	73	48	28	18	286	138	80	52	36	27
24	36"	50	328	152	87	56	39	27	419	193	110	71	49	36
22	36"	50	449	205	116	75	52	38	630	288	164	105	73	54

- Theoretical section properties have been calculated per AISI 1996. "Specifications for the design of cold formed steel members." Ixx and Sxx are effective section properties for deflection and bending.
- Tabulated loads are allowable loads calculated in accordance with good engineering practices and with AISI 1996 specifications for bending stresses. Panel weight has not been subtracted from allowable gravity loads. Allowable load does not address web crippling requirement, or fasteners/support connection.
- Allowable loads are calculated in accordance with AISI 1996 specifications, and have been increased by 33 1/3% for wind uplift. Contact Metal Sales Technical Services Department for more information.
- Deflection consideration is limited by a maximum deflection ratio of L/180 of span.

**FASTENER INSTALLATION TECHNIQUE**

**Recommended Tool Type** - Use depth locating nose or adjustable clutch on screw gun to prevent overdrilling and strip out. **Do not use impact tools or runners.**

**Seating the washer** - Apply sufficient torque to seat the washer - do not overdrive the fastener.

	<b>CORRECT</b> Sealing material slightly visible at edge of metal washer. Assembly is watertight.	<b>TOO LOOSE</b> Sealing material is not visible; not enough compression to seal properly.	<b>TOO TIGHT</b> Metal washer deformed; sealing material pressed beyond washer edge.
<b>SELF DRILLER</b>			
<b>WOODSCREW</b>			

**To prevent wobbling** - Make sure fastener head is completely engaged in the socket. If the head does not go all the way in the socket - tap the magnet deeper into the socket to allow full head engagement. Metal chips will build up from drilling and should be removed from time to time.

**Protect drill point** - Push only hard enough on the screw gun to engage clutch. This prevents excess friction and burn out of the drill point. Correct pressure will allow screw to drill and tap without binding.

**Drilling through sheet and insulation** - Ease up on pressure when drilling through insulation to avoid striking the purlin or girt with the point - apply more pressure after drill point contacts purlin or girt.

**Drilling through purlin overlaps** - Drilling through lapped purlins requires extra care. Excessive voids between purlins sometimes damages drill points and two self-drillers might be necessary to complete the operation. It is sometimes advantageous to predrill.

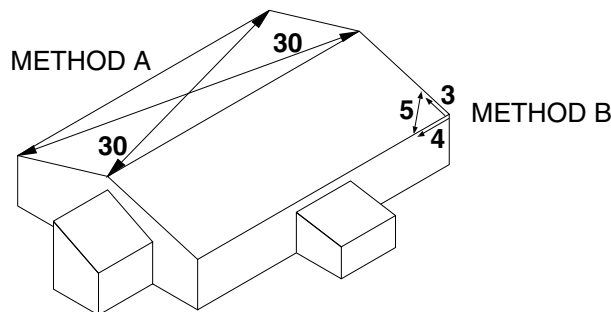
**CONDITION OF SUBSTRUCTURE**

Whether over solid substrate or open structural framing, panel distortion may occur if not applied over properly aligned and uniform substructure.

The installer should check the roof deck for squareness before installing "R"-Panels. Several methods can be used to verify squareness of the structure for proper installation of the panels.

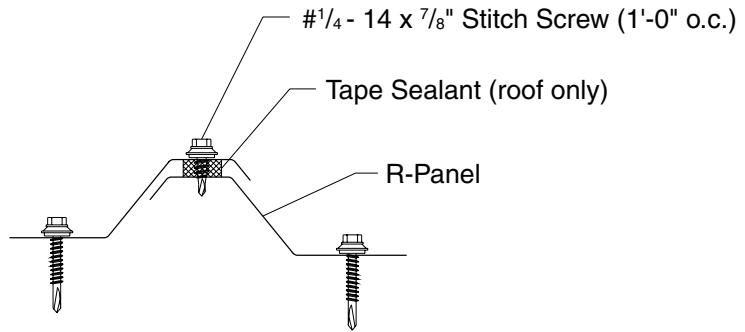
**METHOD "A"** - One method for checking the roof for squareness is to measure diagonally across one slope of the roof from similar points at the ridge and eave and obtain the same dimension.

**METHOD "B"** - The 3-4-5 triangle system may also be used. To use this system measure a point from the corner along the edge of the roof at a module of three (3). Measure a point from the same corner along another edge at a module of four (4). Then by measuring diagonally between the two points established, the dimension should be exactly a module of five (5) to have a square corner. Multiple uses of this system may be required to determine building squareness. If the endwall cannot be made square, the roof system cannot be installed as shown in these instructions.



# R-PANEL DESIGN / INSTALLATION CONSIDERATIONS (CONT.)

## R-PANEL FASTENING PATTERN

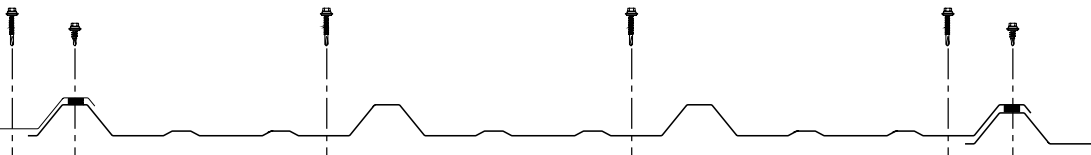
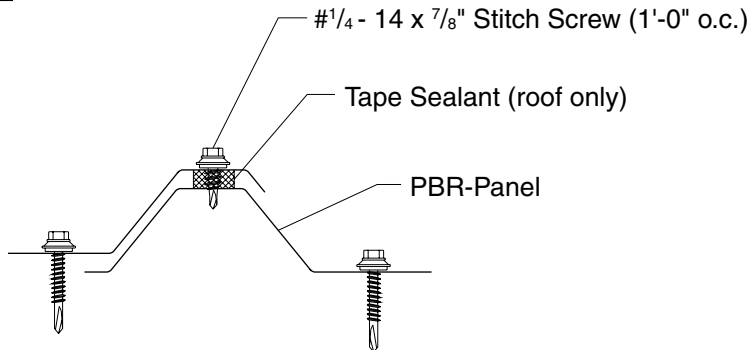


**R-Panel Fastening Pattern - Interior**



**R-Panel Fastening Pattern - Ends**

## PBR-PANEL FASTENING PATTERN



**PBR-Panel Fastening Pattern - Interior**

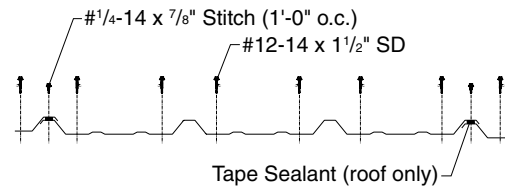
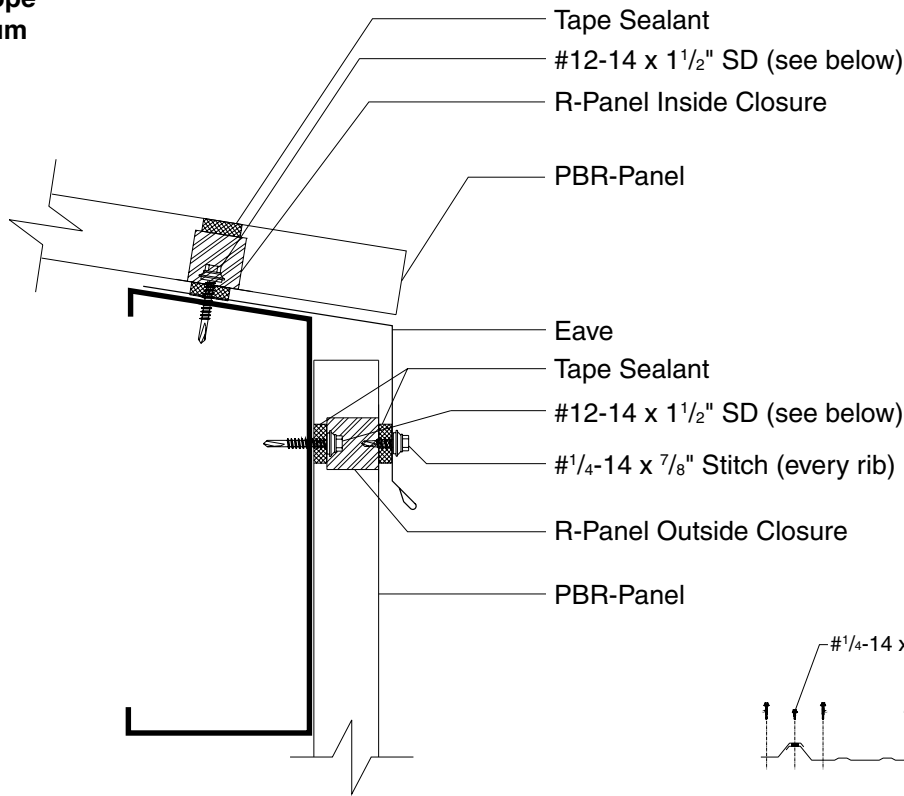


**PBR-Panel Fastening Pattern - Ends**

# R-PANEL

## EAVE DETAIL

1:12 Slope  
Minimum

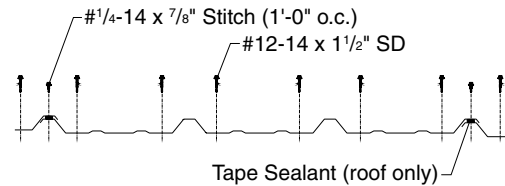
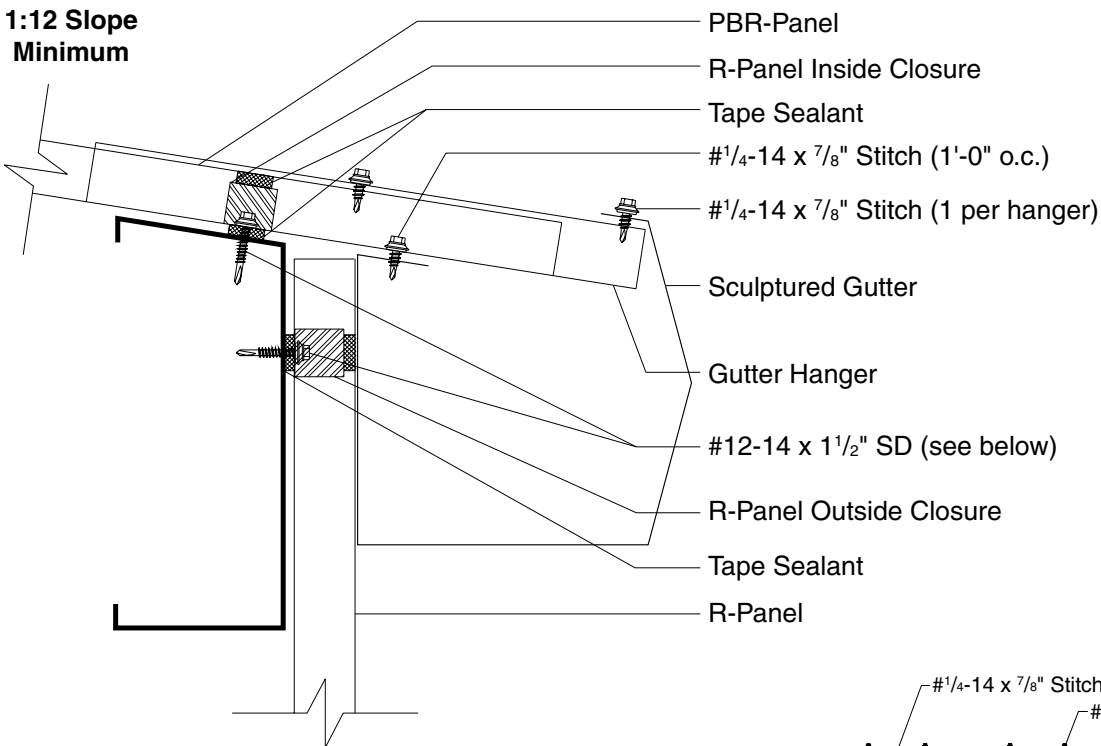


**R-Panel Fastening Pattern**

# R-PANEL

## SCULPTURED GUTTER DETAIL

1:12 Slope  
Minimum

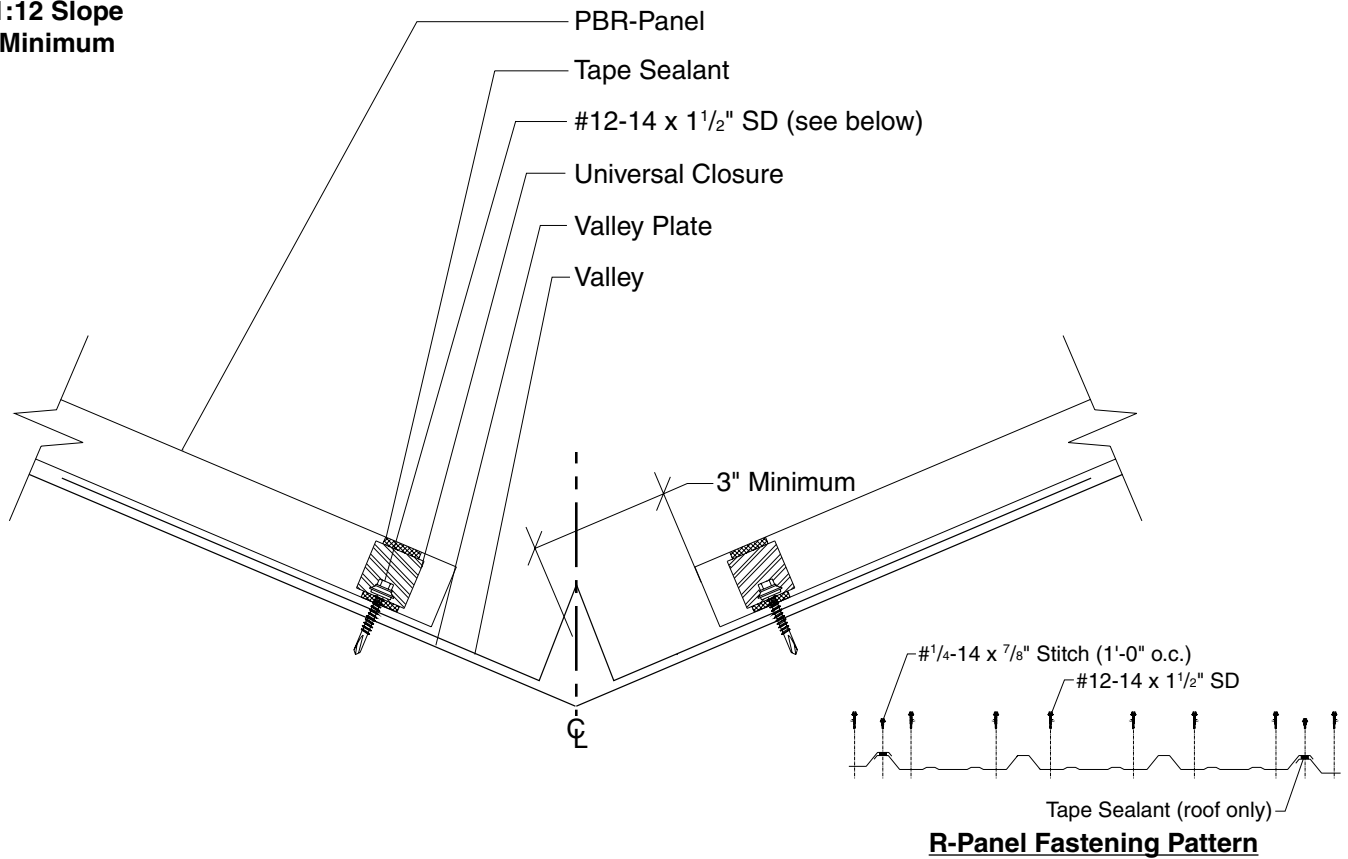


**R-Panel Fastening Pattern**

# R-PANEL

## VALLEY DETAIL

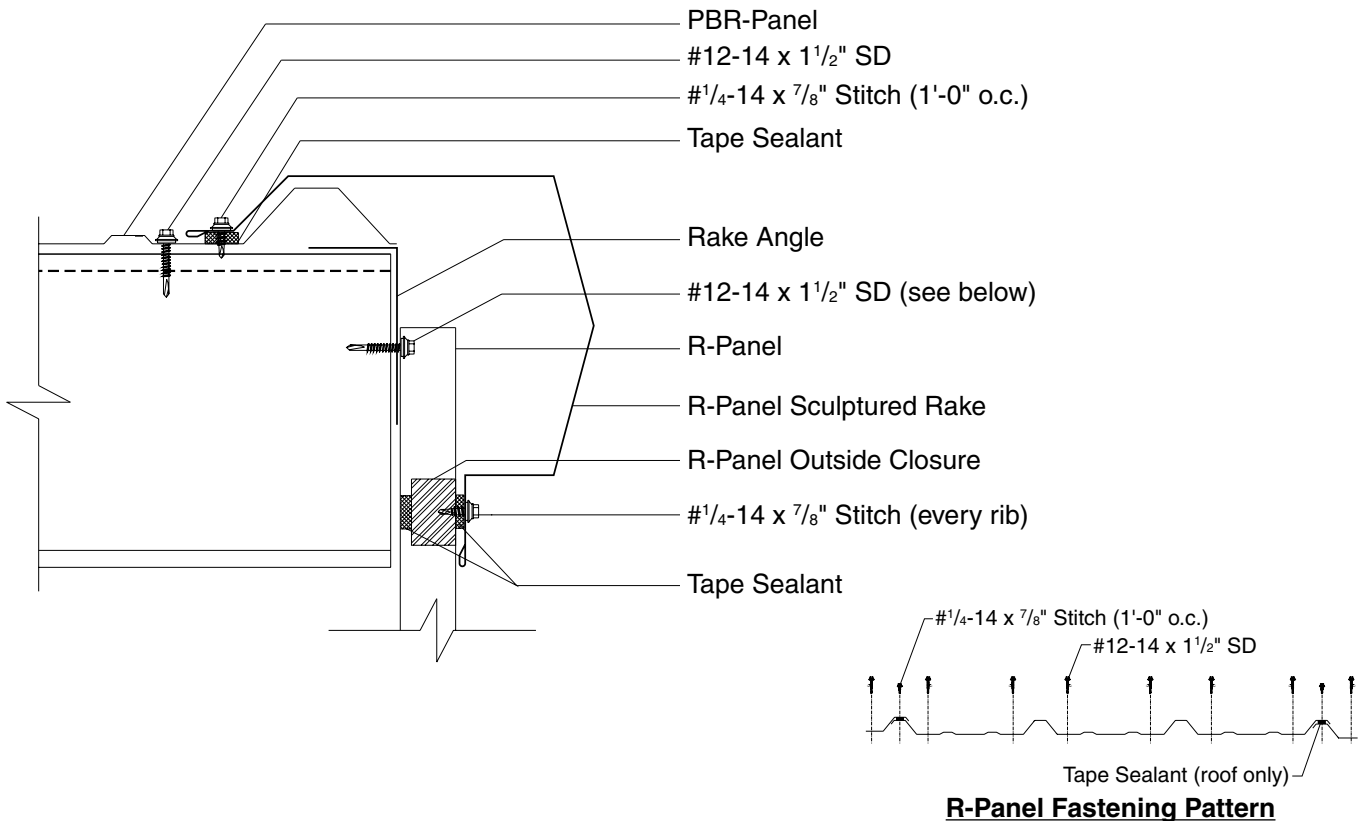
1:12 Slope  
Minimum



# R-PANEL

## SCULPTURED RAKE DETAIL

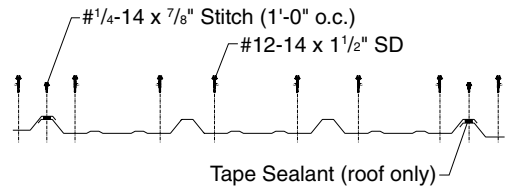
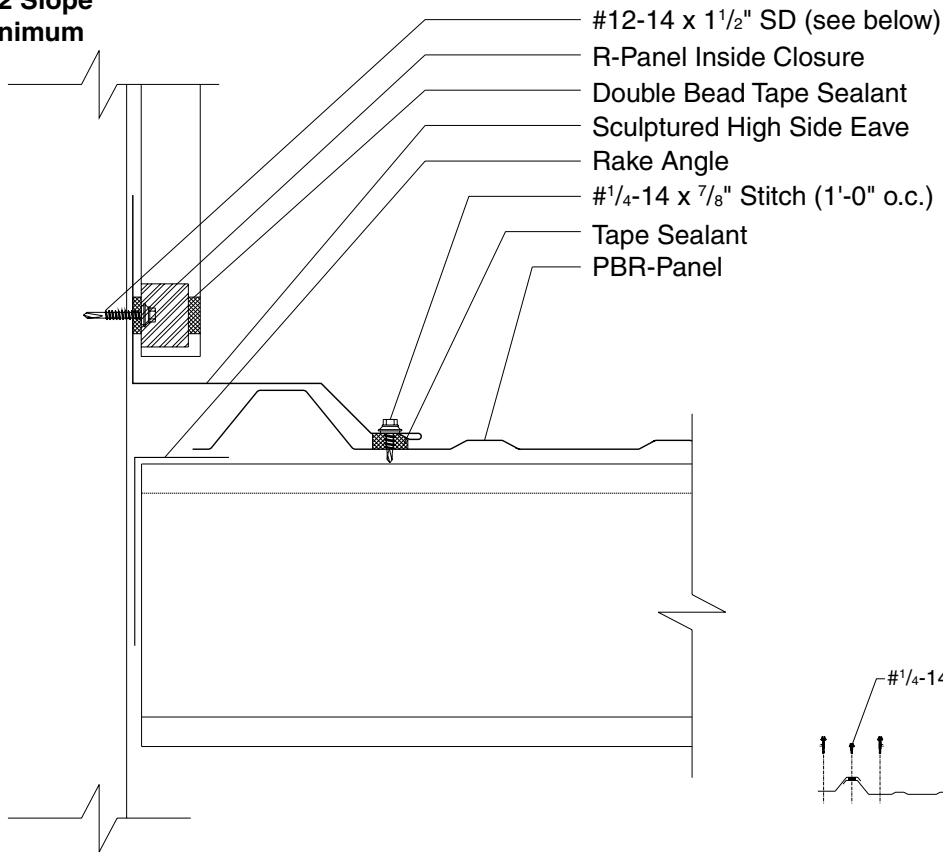
1:12 Slope  
Minimum



# R-PANEL

## RAKEWALL DETAIL

1:12 Slope  
Minimum

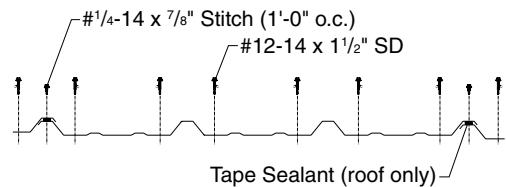
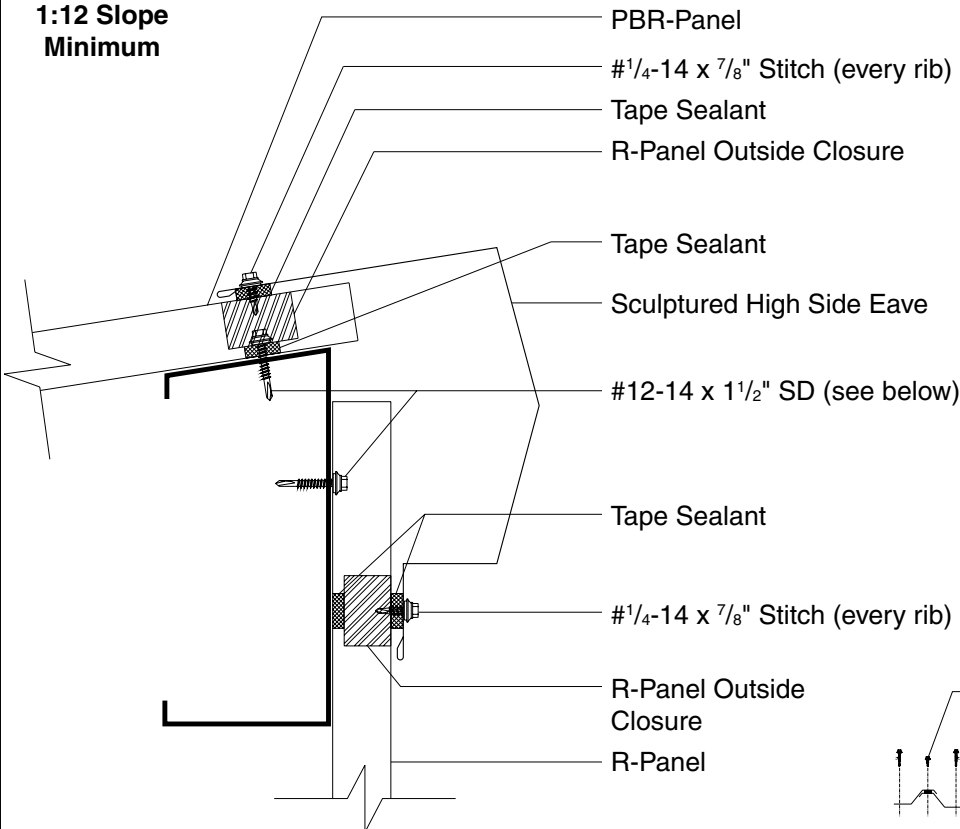


**R-Panel Fastening Pattern**

# R-PANEL

## SCULPTURED HIGH SIDE EAVE DETAIL

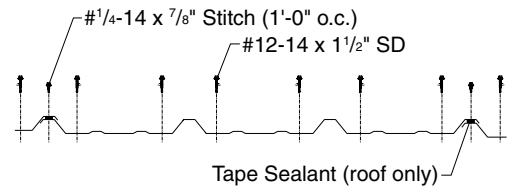
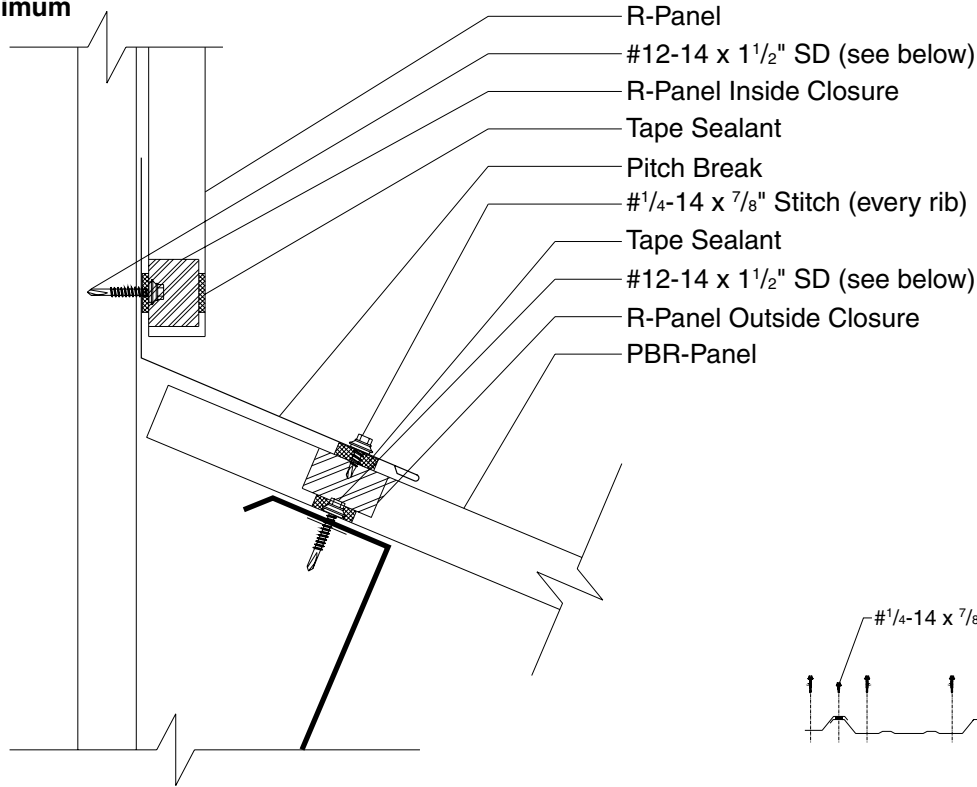
1:12 Slope  
Minimum



**R-Panel Fastening Pattern**

# R-PANEL ENDWALL DETAIL

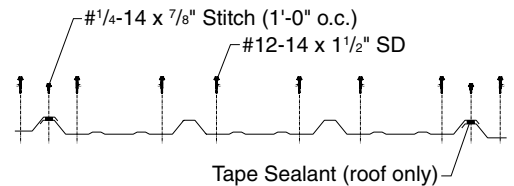
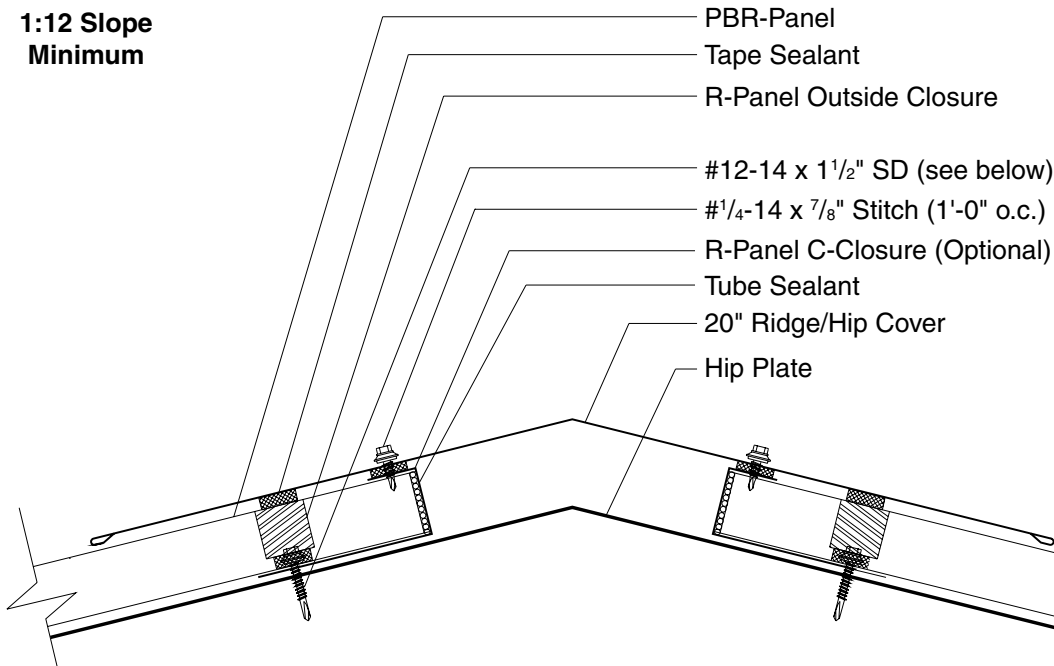
1:12 Slope  
Minimum



**R-Panel Fastening Pattern**

# R-PANEL RIDGE/HIP DETAIL

1:12 Slope  
Minimum

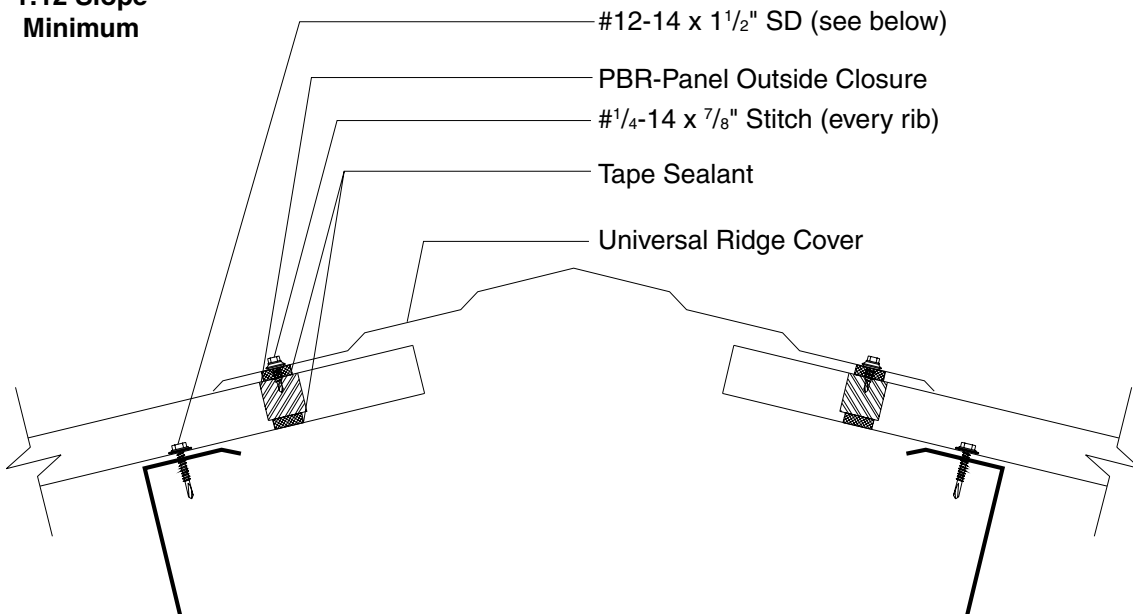


**R-Panel Fastening Pattern**

# R-PANEL

## UNIVERSAL RIDGE DETAIL

1:12 Slope  
Minimum



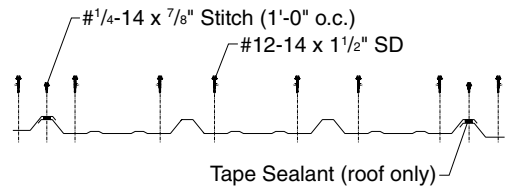
#12-14 x 1 1/2" SD (see below)

PBR-Panel Outside Closure

#1/4-14 x 7/8" Stitch (every rib)

Tape Sealant

Universal Ridge Cover

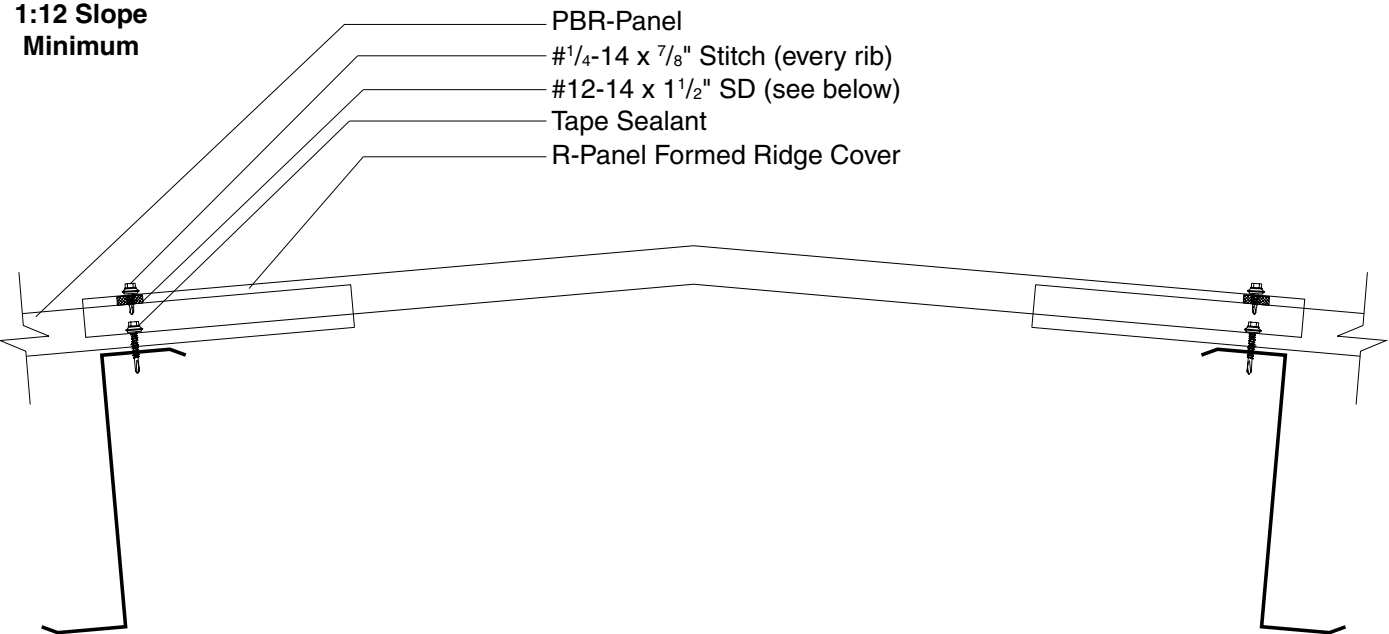


**R-Panel Fastening Pattern**

# R-PANEL

## FORMED RIDGE DETAIL

1:12 Slope  
Minimum



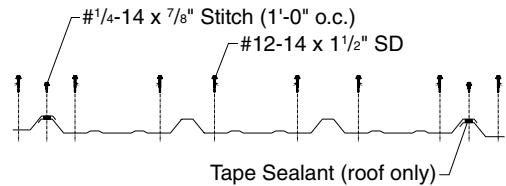
PBR-Panel

#1/4-14 x 7/8" Stitch (every rib)

#12-14 x 1 1/2" SD (see below)

Tape Sealant

R-Panel Formed Ridge Cover



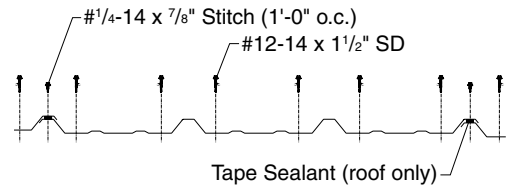
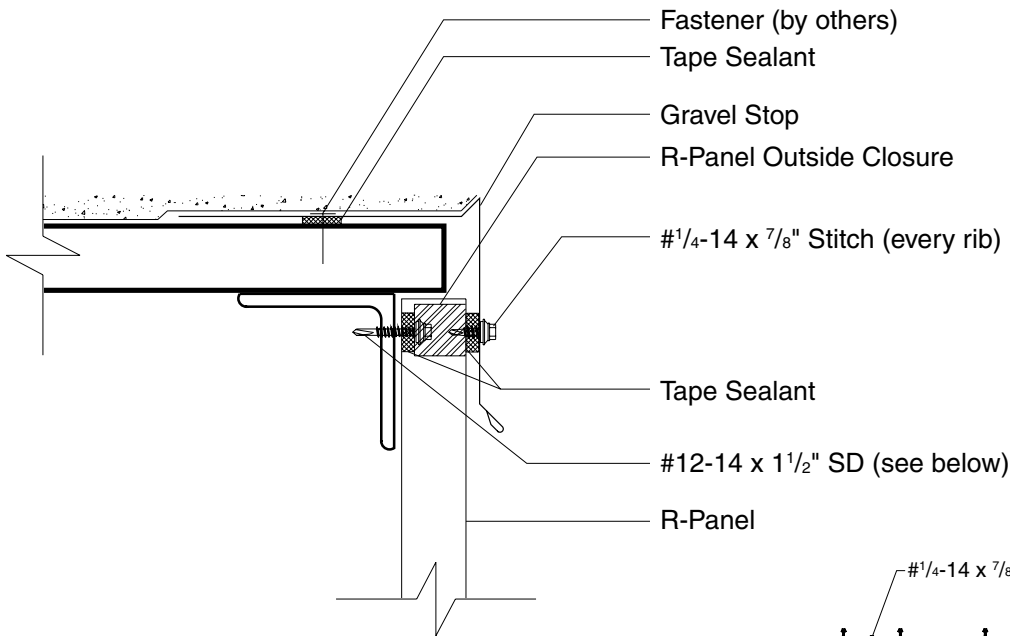
**R-Panel Fastening Pattern**



# R-PANEL

## GRAVEL STOP DETAIL

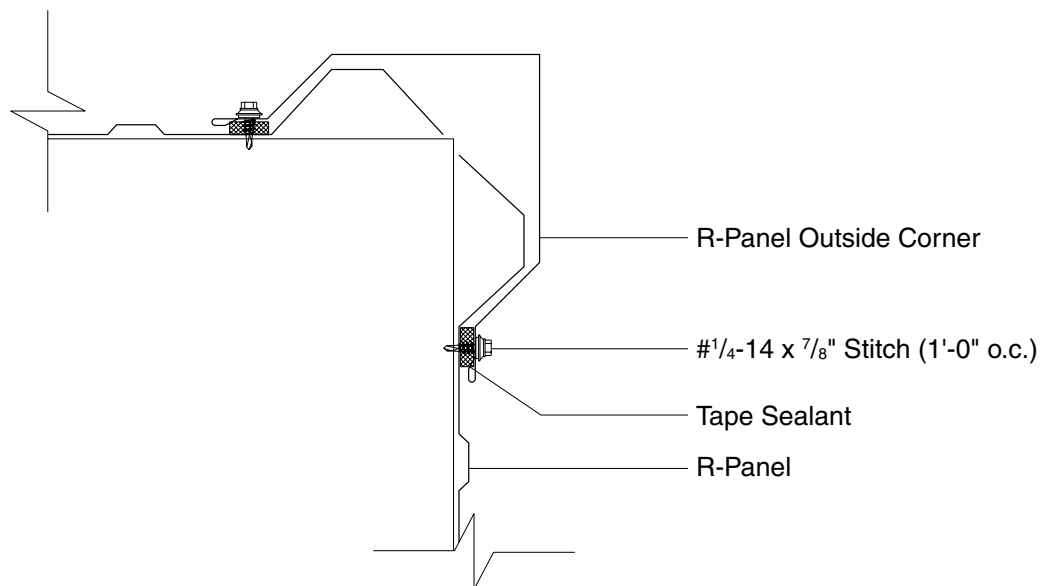
1:12 Slope  
Minimum



**R-Panel Fastening Pattern**

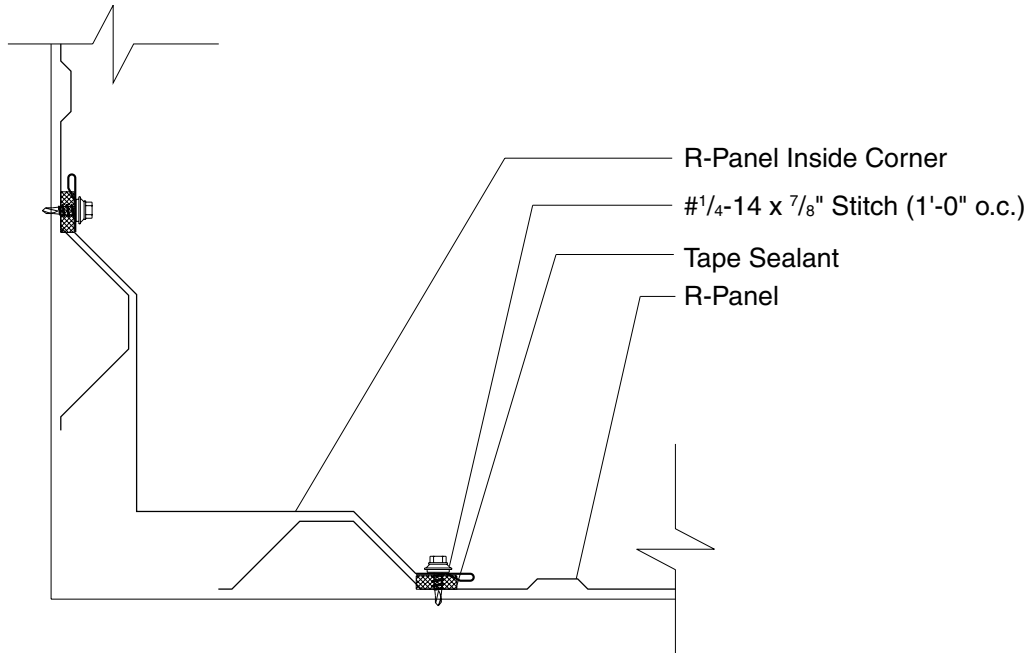
# R-PANEL

## OUTSIDE CORNER DETAIL



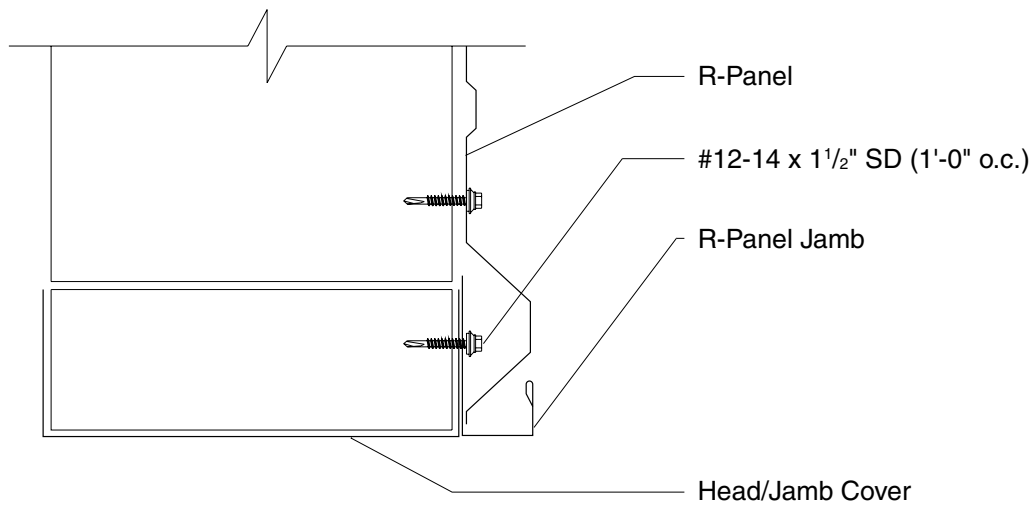
# R-PANEL

## INSIDE CORNER

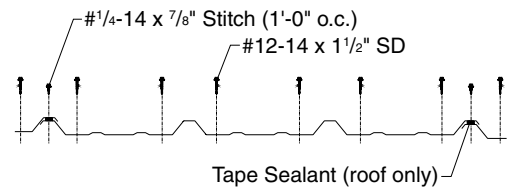
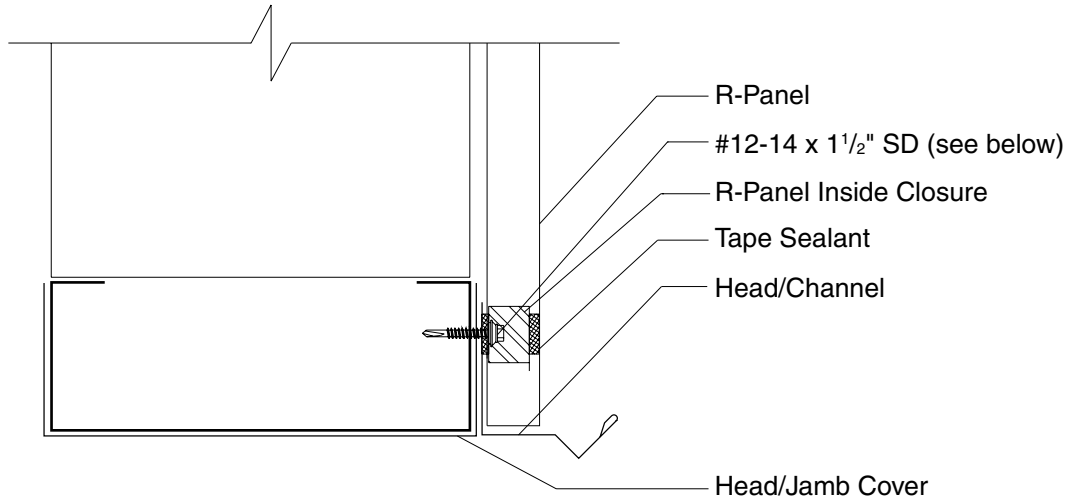


# R-PANEL

## JAMB DETAIL

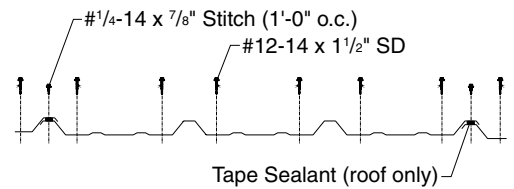
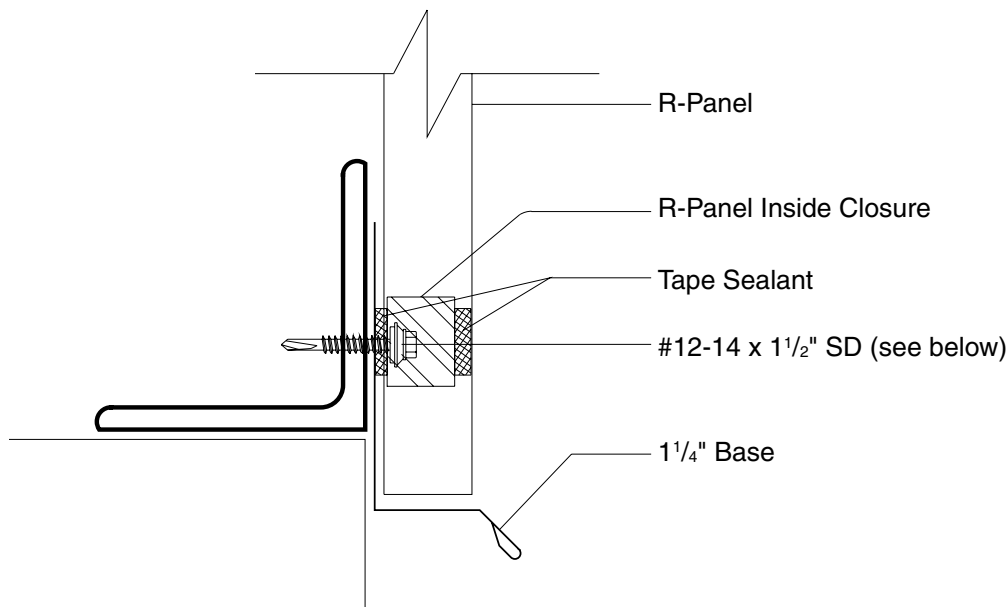


**R-PANEL HEAD DETAIL**



**R-Panel Fastening Pattern**

**R-PANEL BASE DETAIL**



**R-Panel Fastening Pattern**

