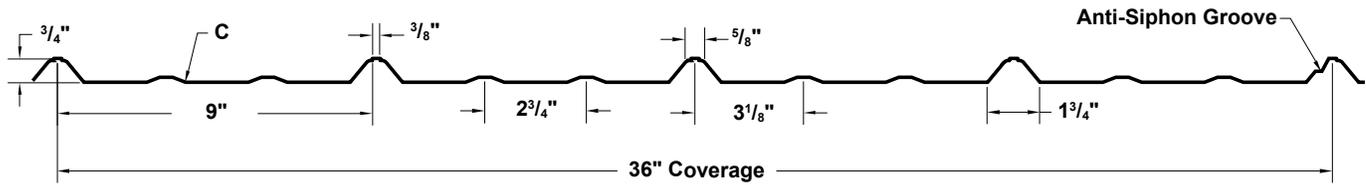


Product	Page No.
Panel Information	
Classic Rib Panel Profile	PCR-2
Panel Overview	PCR-2
Flashing Profiles	
Eave (Direct Fasten).....	PCR-3
Cleat	PCR-3
Box Gutter	PCR-3
Box Gutter End.....	PCR-3
Universal Gutter/Downspout Strap.....	PCR-3
6" x 4" Downspout	PCR-3
6" x 4" 95° Elbow	PCR-3
Downspout Bracket	PCR-3
Valley	PCR-3
Classic Rib Rake	PCR-3
Rakewall	PCR-3
Pitch Break	PCR-3
Peak	PCR-3
11" Ridge/Hip Cover	PCR-3
20" Ridge/Hip Cover.....	PCR-3
Vented Ridge Cover	PCR-4
Vent Drip.....	PCR-4
Classic Rib Inside Corner.....	PCR-4
Classic Rib Outside Corner	PCR-4
1.5" Sill/Head.....	PCR-4
1.5" Sill to Soffit	PCR-4
Head Jamb Cover.....	PCR-4
Classic Rib Jamb.....	PCR-4
1.25" Base	PCR-4
Accessory Profiles	
Classic Rib Closures	PCR-5
Universal Closure	PCR-5
Classic Rib Light Transmitting Panel.....	PCR-5
Tube Sealant	PCR-5
Tape Sealant.....	PCR-5
Rubber Roof Jack.....	PCR-5
Retro Roof Jack.....	PCR-5
Rubber Roof Flashing Kit	PCR-5
Touch-Up Paint.....	PCR-5
Continuous Ridge Vent.....	PCR-5
Classic Rib Panel Shear.....	PCR-5
Vent Material.....	PCR-5
Louver with Screen.....	PCR-5
Testing Information	
Section Properties and General Information	PCR-6
Design/Installation Considerations	
Fastener Installation Technique.....	PCR-7
Condition of Substructure.....	PCR-7
Fastening Information.....	PCR-8

Product	Page No.
Detail Conditions	
Eave Detail	PCR-9
Box Gutter Detail	PCR-9
Valley Detail.....	PCR-10
Rake Detail	PCR-10
Rakewall Detail.....	PCR-11
Endwall Detail.....	PCR-11
High Side Eave Detail.....	PCR-12
20" Ridge/Hip Detail	PCR-12
Ridge Detail.....	PCR-13
Gravel Stop Detail	PCR-13
Outside Corner Detail.....	PCR-14
Inside Corner Detail.....	PCR-14
Jamb Detail.....	PCR-15
Head Detail.....	PCR-15
Base Detail	PCR-16
Notes	
Notes	PCR-16

CLASSIC RIB® PANEL OVERVIEW

PANEL PROFILE



SLOPE

The minimum recommended slope for any Classic Rib roofing panel is 3:12.

SUBSTRATE

Classic Rib 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.

COVERAGE

Classic Rib panels are available in a 36" width with a 3/4" rib height.

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

Classic Rib panels are available in 29, 26, and 24 gauge optional. Minimum quantity may apply.

APPLICATION

Commercial and Industrial panel.

PERFORMANCE TEST

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

FASTENING SYSTEM

Direct Fasten (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 per ASTM A-653

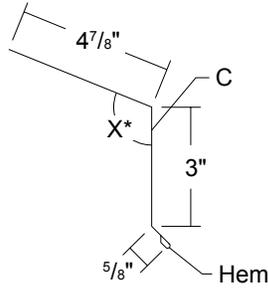
FINISH

- ▶ *Acrylic Coated Galvalume® (ACG) / ASTM A-792 - AZ55
- ▶ Prepainted Galvalume / ASTM A-792 - AZ50
- ▶ MS Colorfast45®
- ▶ **Fluorocarbon (PVDF)

* Differential appearance of Acrylic Coated Galvalume roofing materials is not a cause for rejection.

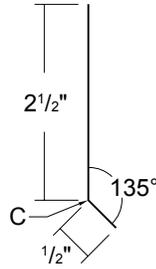
** Meets both Kynar 500 and Hylar 5000 specifications.

EAVE (DIRECT FASTEN)



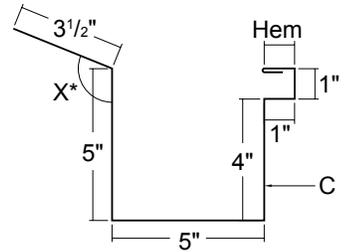
Length 10'-2" - *Specify Slope Angle

CLEAT



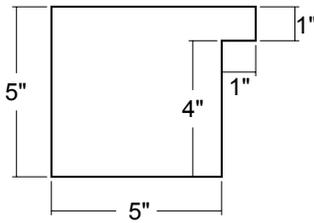
Length 10'-2"

BOX GUTTER

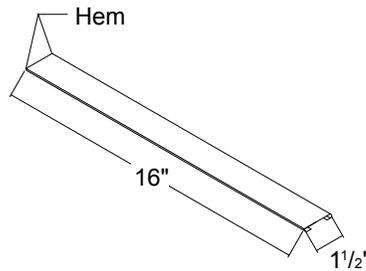


Length 10'-2", 20'-3" - *Specify Slope Angle

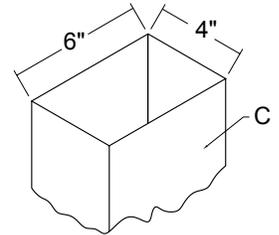
BOX GUTTER END



**UNIVERSAL GUTTER/
DOWNSPOUT STRAP**

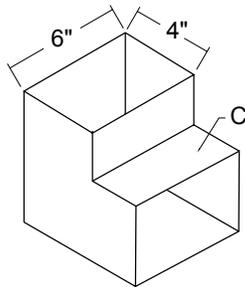


DOWNSPOUT 6" x 4"



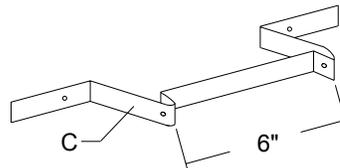
Length 10'-2", 20'-3"
(Also available 4" x 3 1/2")

95° ELBOW 6" x 4"



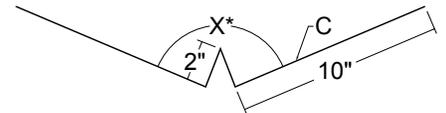
(Also available 4" x 3 1/2")

DOWNSPOUT BRACKET



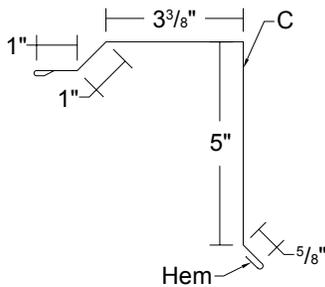
(Also available 4")

VALLEY



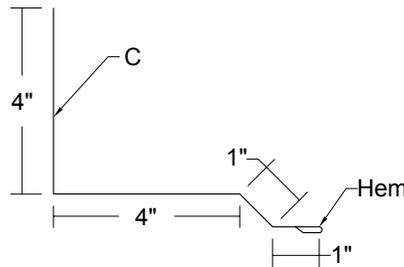
Length 10'-2", 20'-3" - *Specify Slope Angle

CLASSIC RIB RAKE



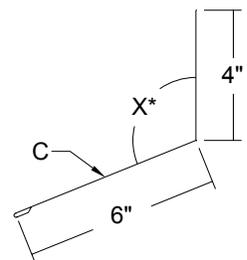
Length 10'-2", 20'-3"

RAKEWALL



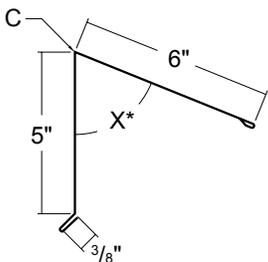
Length 10'-2"

PITCH BREAK



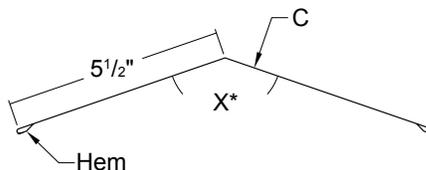
Length 10'-2" - *Specify Slope Angle

PEAK



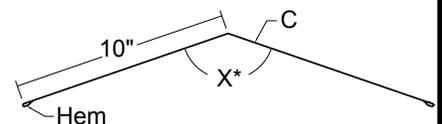
Length 10'-2", 20'-3" - *Specify Slope Angle

11" RIDGE/HIP COVER



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

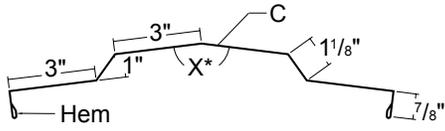
20" RIDGE/HIP COVER



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

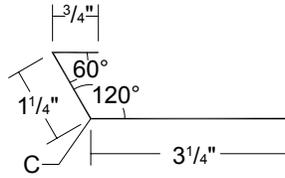
CLASSIC RIB® FLASHING PROFILES (CONT.)

VENTED RIDGE COVER



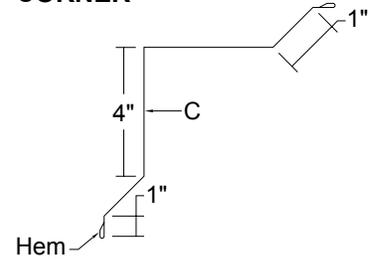
Length 10'-2", 20'-3" - *Specify Slope Angle

VENT DRIP



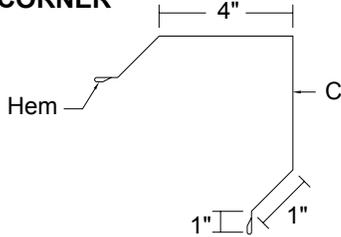
Length 10'-2"

CLASSIC RIB INSIDE CORNER



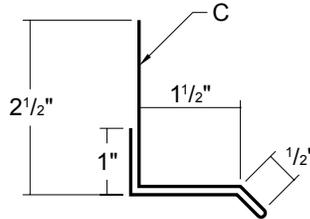
Length 10'-2", 14'-2", 20'-3"

CLASSIC RIB OUTSIDE CORNER



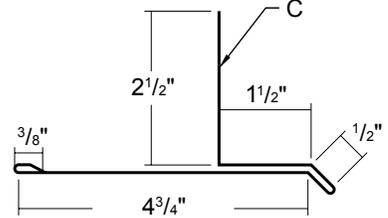
Length 10'-2", 14'-2", 20'-3"

1.5" SILL/HEAD



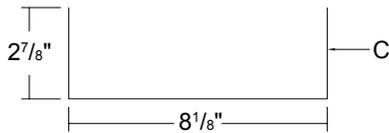
Length 10'-2"

1.5" SILL TO SOFFIT



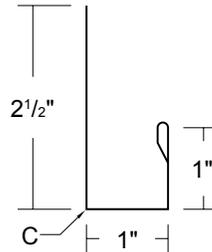
Length 10'-2"

HEAD JAMB COVER



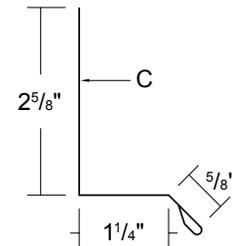
Length 10'-2", 14'-2"

CLASSIC RIB JAMB



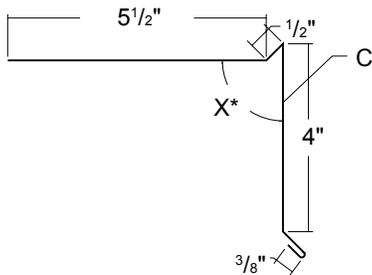
Length 10'-2"

1.25" BASE



Length 10'-2"

GRAVEL STOP



Length 10'-2"

C- Indicates color side of flashing.

CLASSIC RIB CLOSURES



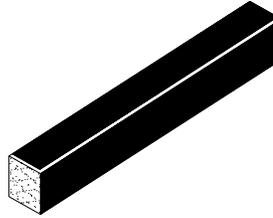
Outside Closure



Inside Closure

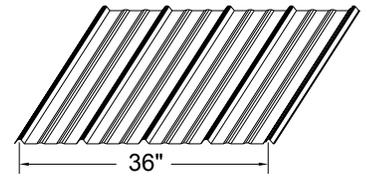
Polyethylene Foam

UNIVERSAL CLOSURE



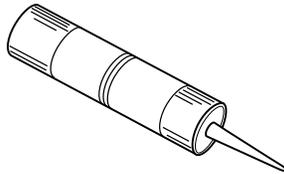
1" x 1 1/2" x 50' Polyethylene Foam
1" x 1 1/2" x 10' Polyethylene Foam

CLASSIC RIB LIGHT TRANSMITTING PANEL



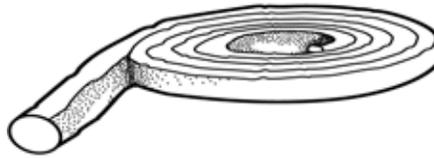
8 Ounce Fiberglass
Available In 10' and 12' Panels

TUBE SEALANT



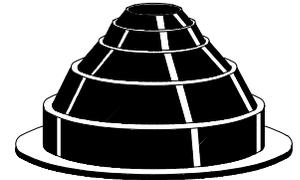
10.3 oz. Cartridge
Urethane

TAPE SEALANT



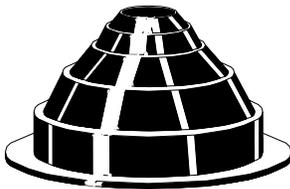
3/8" X 3/32" X 50'
Single Bead
Butyl - Gray

RUBBER ROOF JACK



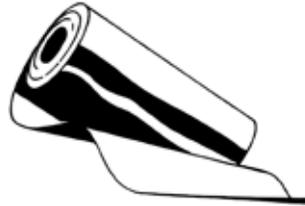
MINI (1/4" to 1 1/8" O.D. Pipe)
#2 (1 3/4" to 3" O.D. Pipe)
#4 (3" to 6" O.D. Pipe)
#6 (6" to 9" O.D. Pipe)
#8 (7" to 13" O.D. Pipe)

RETRO ROOF JACK



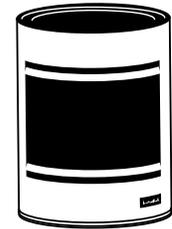
#801_{RETRO} (3/4" to 2 3/4" O.D. Pipe)
#802_{RETRO} (2" to 7 1/4" O.D. Pipe)
#803_{RETRO} (3 1/4" to 10" O.D. Pipe)

RUBBER ROOF FLASH KIT



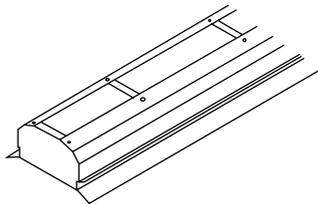
12" x 50'-0" Flash Kit
18" x 50'-0" Flash Kit

TOUCH-UP PAINT



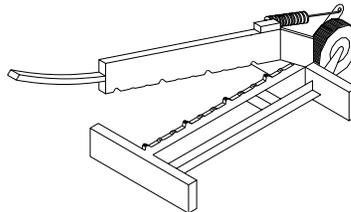
Available in pints
PVDF / MS Colorfast45

CONTINUOUS RIDGE VENT

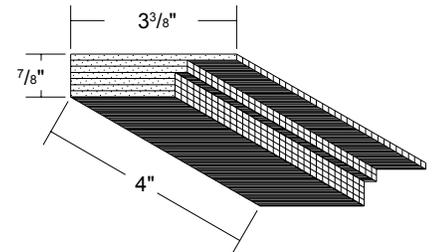


9" x 10', 12" x 10'

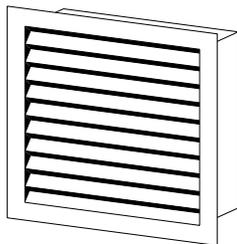
CLASSIC RIB PANEL SHEAR



VENT MATERIAL

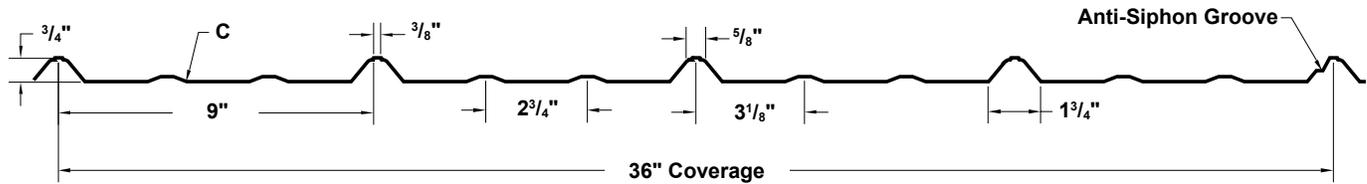


LOUVRE WITH SCREEN



3' x 3' or 3' x 4'

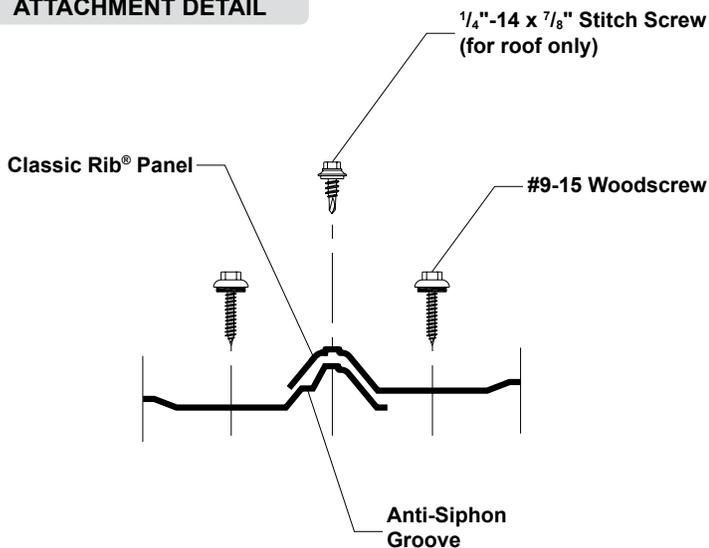
CLASSIC RIB® SECTION PROPERTIES AND GENERAL INFORMATION



SECTION PROPERTIES								ALLOWABLE UNIFORM LOADS PSF (3 or More Equal Spans)											
Ga.	Width (in.)	Yield KSI	Weight PSF	Top in Compression		Bottom in Compression		Inward Load				Outward Load							
				Ixx In ⁴ /ft	Sxx In ³ /ft	Ixx In ⁴ /ft	Sxx In ³ /ft	1.5'	2'	2.5'	3'	3.5'	4'	1.5'	2'	2.5'	3'	3.5'	4'
29	36"	80	0.62	0.0100	0.0151	0.0053	0.0118	142	81	52	36	27	21	179	103	66	46	34	26
26	36"	80	0.86	0.0123	0.0190	0.0080	0.0151	182	104	67	47	34	26	225	129	84	58	43	33

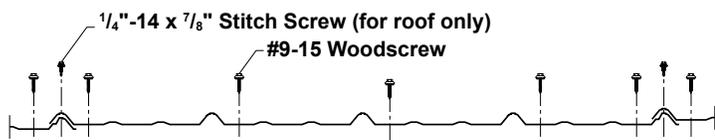
- Theoretical section properties have been calculated per AISI 2001. "Specifications for the Design of Cold-formed Steel Structural Members." Ixx and Sxx are effective section properties for deflection and bending.
- Allowable load is calculated in accordance with AISI 2001 specifications considering bending, shear, combined bending and shear and deflection. Allowable load considers the worst case of 3 and 4 equal span conditions. Allowable load does not address web crippling or fasteners/support connection and 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 in uplift.
- Diaphragm Capacity** - 296 plf average Ultimate Shear Strength using the above fastening pattern on 2x supports located 2' on center per ASTM E 455-04

ATTACHMENT DETAIL

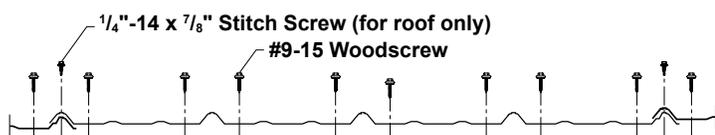


FASTENING PATTERN

Field of Panel



Ends of Panel



GENERAL INFORMATION

► Slope

The minimum recommended slope for Classic Rib® roof panel is 3:12.

► Substructure

Classic Rib® is designed to be utilized over open structural framing, or a solid substrate. To avoid panel distortion, use a properly aligned and uniform substructure.

► Coverage

Classic Rib® panels are available in a 3/4" rib height with a coverage width of 36".

► Length

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.

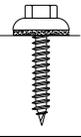
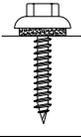
► Availability

Finishes: Acrylic Coated Galvalume® or MS Colorfast45®
Gauge: 26ga and 29ga standard

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.

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

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.

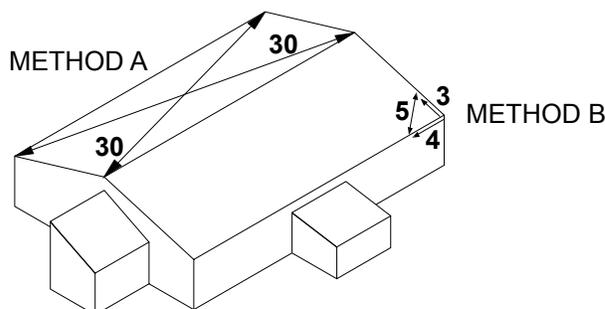
CONDITION OF SUBSTRUCTURE

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

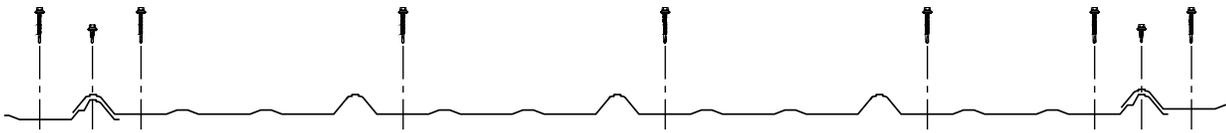
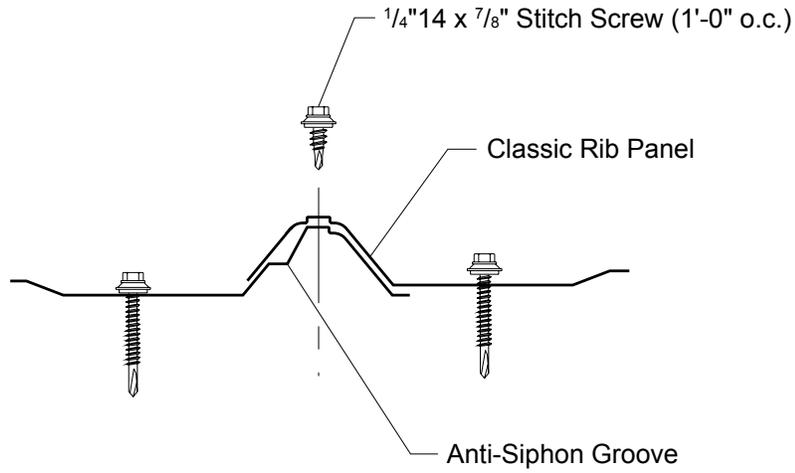
The installer should check the roof deck for squareness before installing Classic Rib panels. Several methods can be used to verify squareness of the structure for proper installation of the panels.

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.

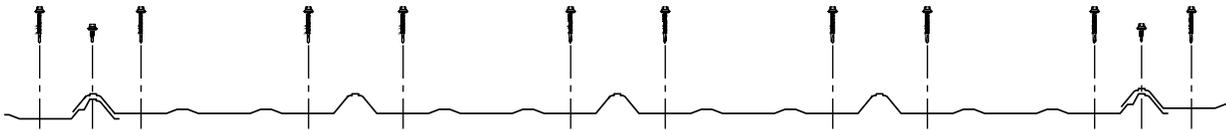
METHOD "B" - The 3-4-5 triangle system may also be used. To use this system measure a point from the corner along the edge of the roof at a module of three (3). Measure a point from the same corner along another edge at a module of four (4). Then by measuring diagonally between the two points established, 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.



CLASSIC RIB FASTENING PATTERN



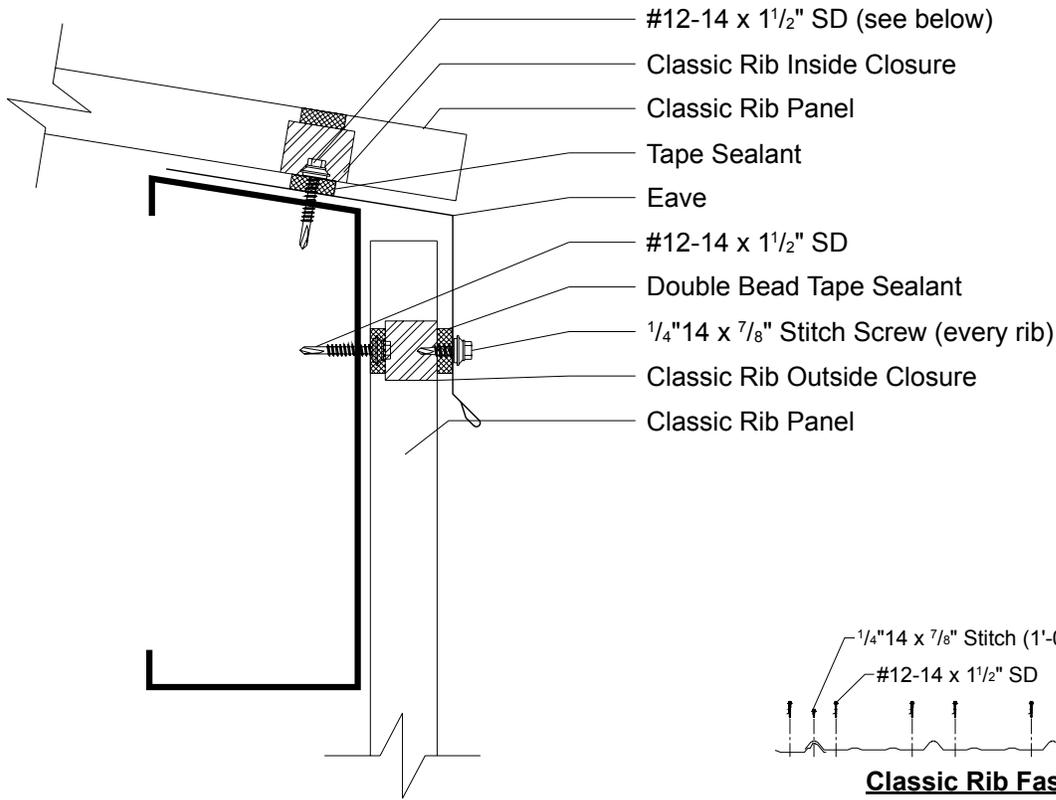
Classic Rib Fastening Pattern - Interior



Classic Rib Fastening Pattern - Ends

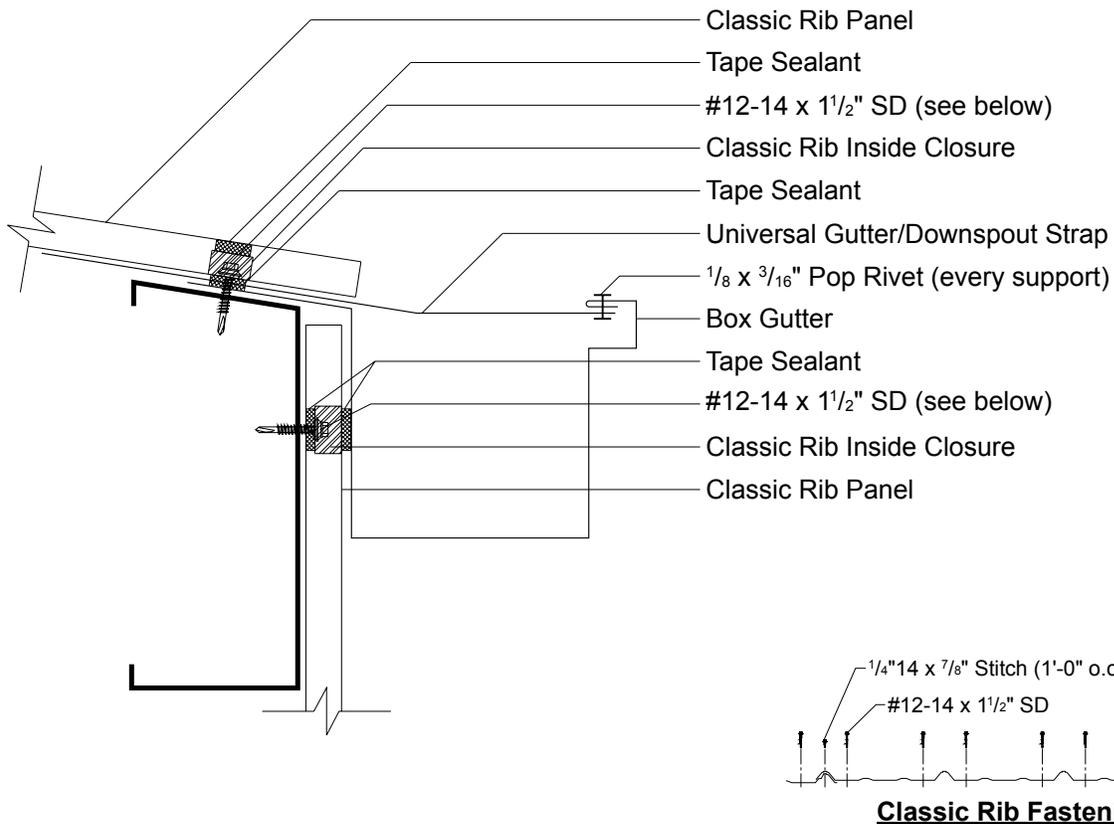
CLASSIC RIB® EAVE DETAIL

3:12 Slope
Minimum



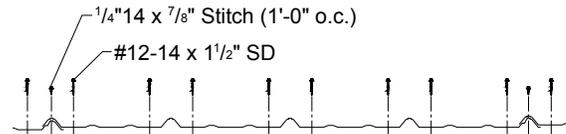
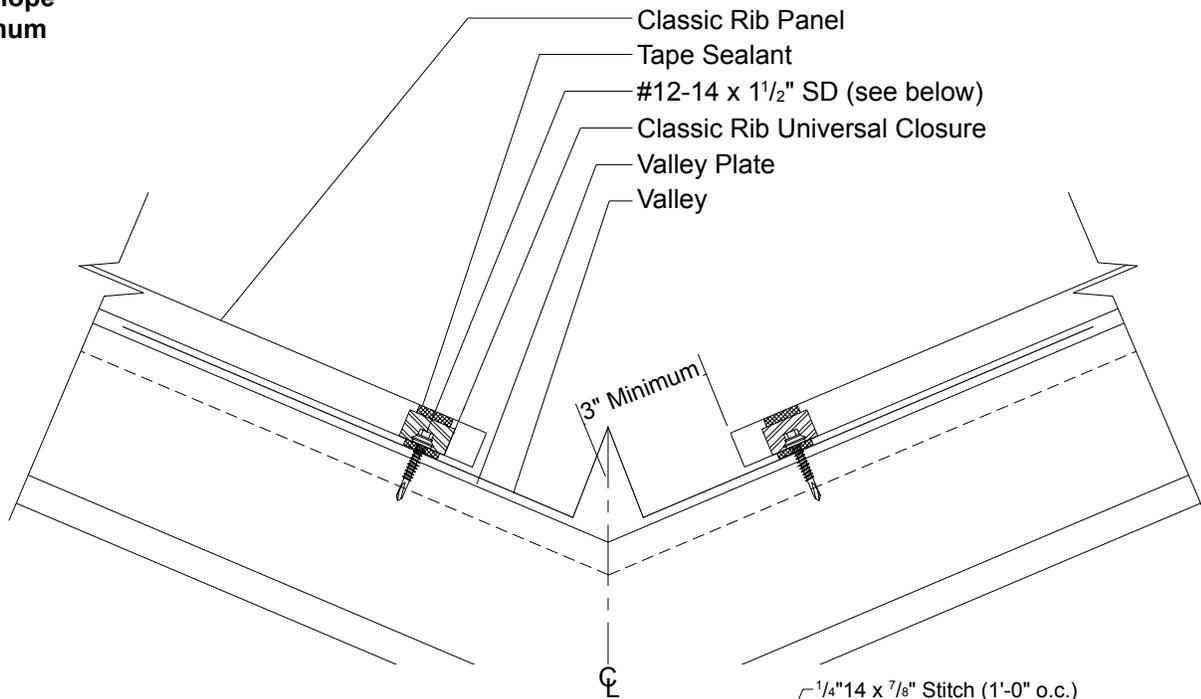
CLASSIC RIB BOX GUTTER DETAIL

3:12 Slope
Minimum



CLASSIC RIB® VALLEY DETAIL

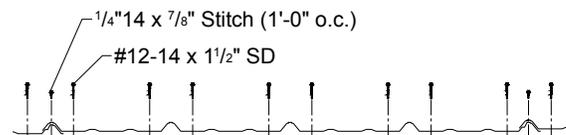
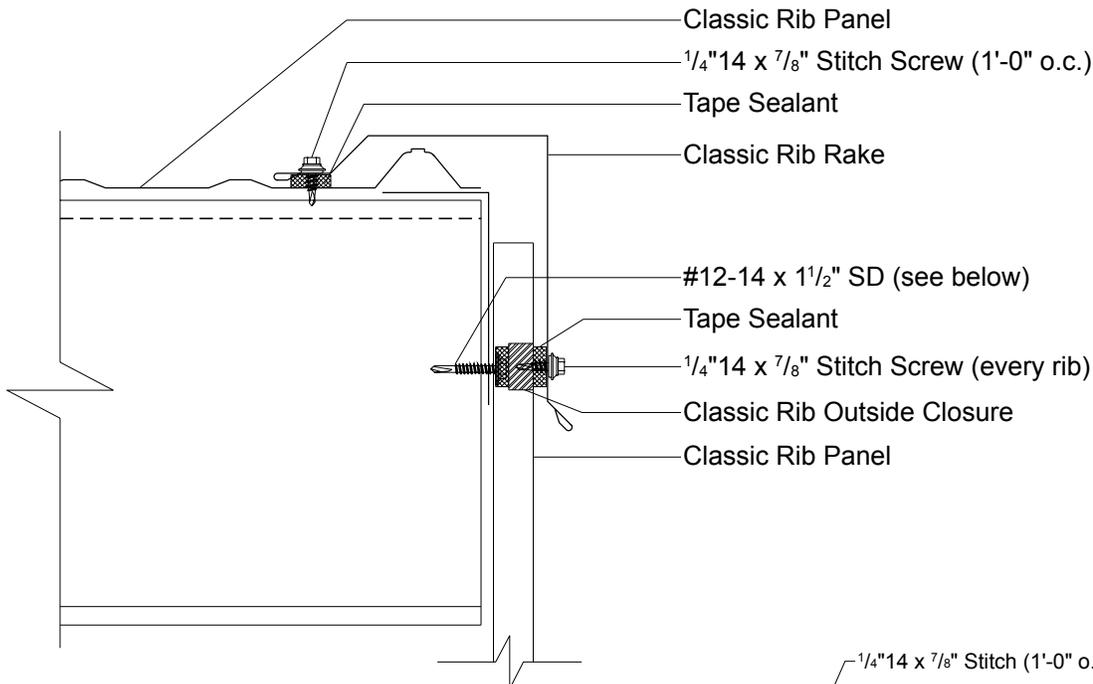
3:12 Slope
Minimum



Classic Rib Fastening Pattern

CLASSIC RIB® RAKE DETAIL

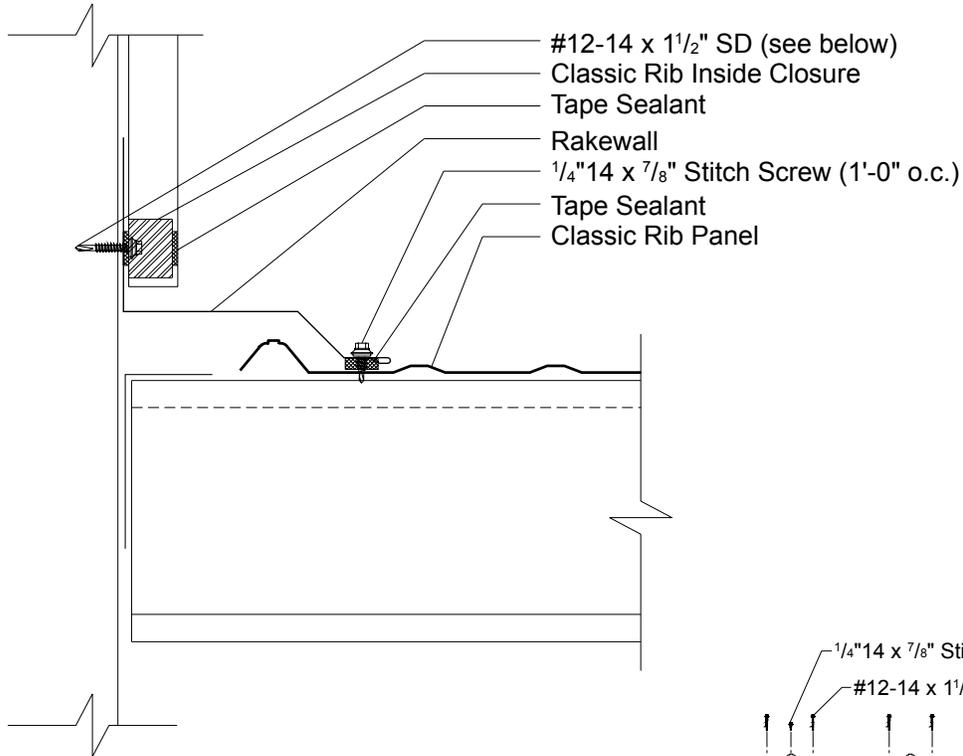
3:12 Slope
Minimum



Classic Rib Fastening Pattern

CLASSIC RIB® RAKEWALL DETAIL

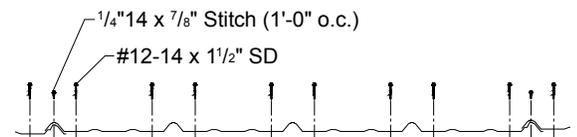
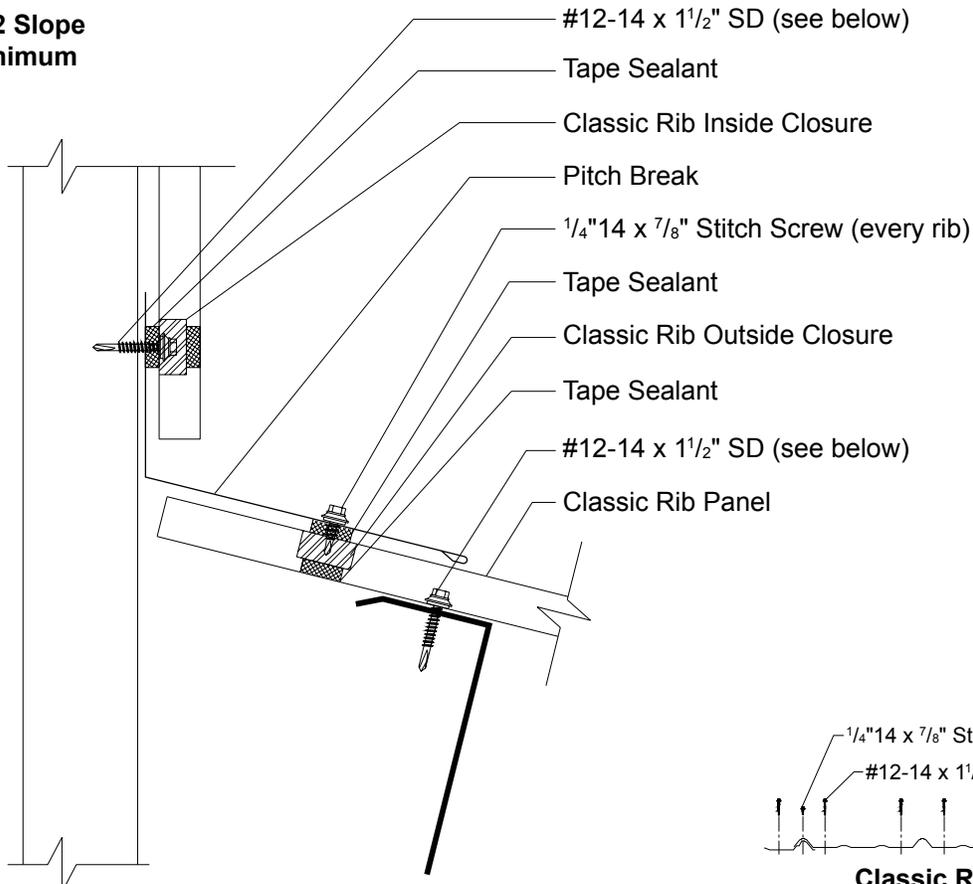
3:12 Slope
Minimum



Classic Rib Fastening Pattern

CLASSIC RIB ENDWALL DETAIL

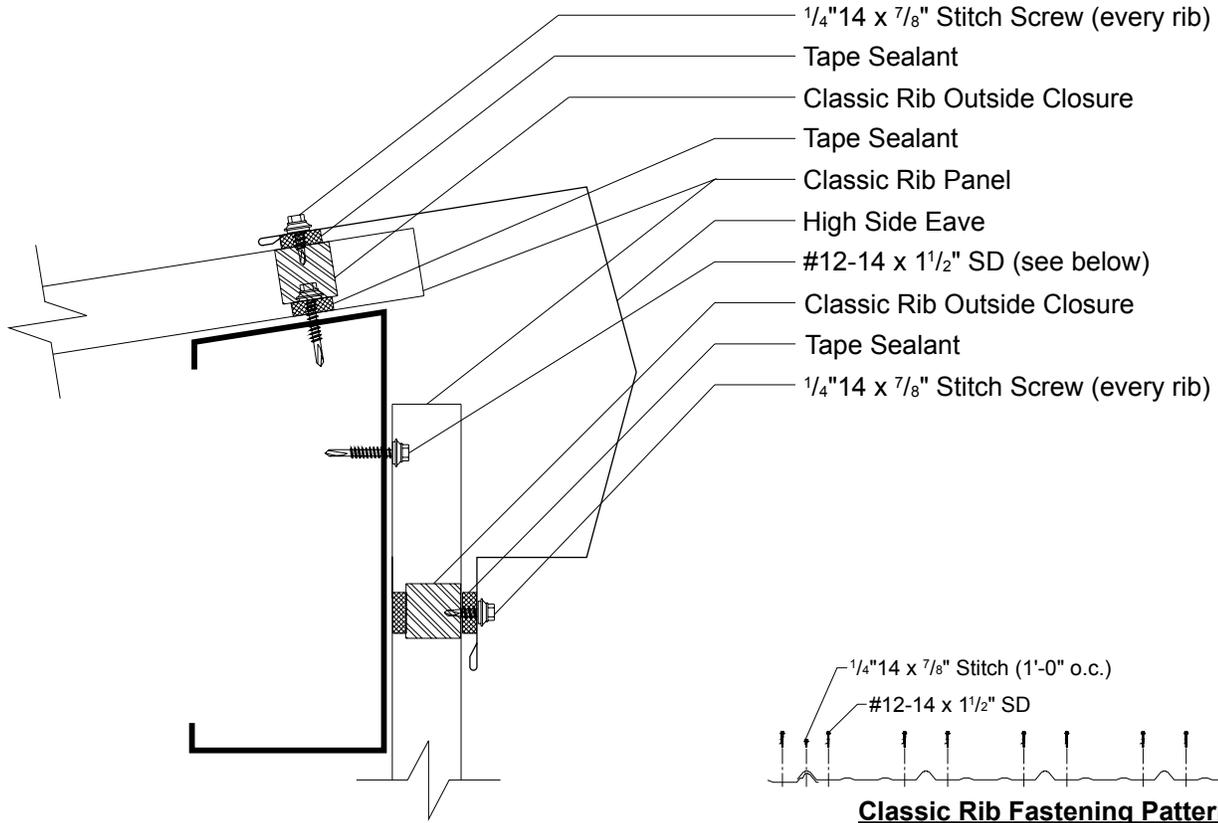
3:12 Slope
Minimum



Classic Rib Fastening Pattern

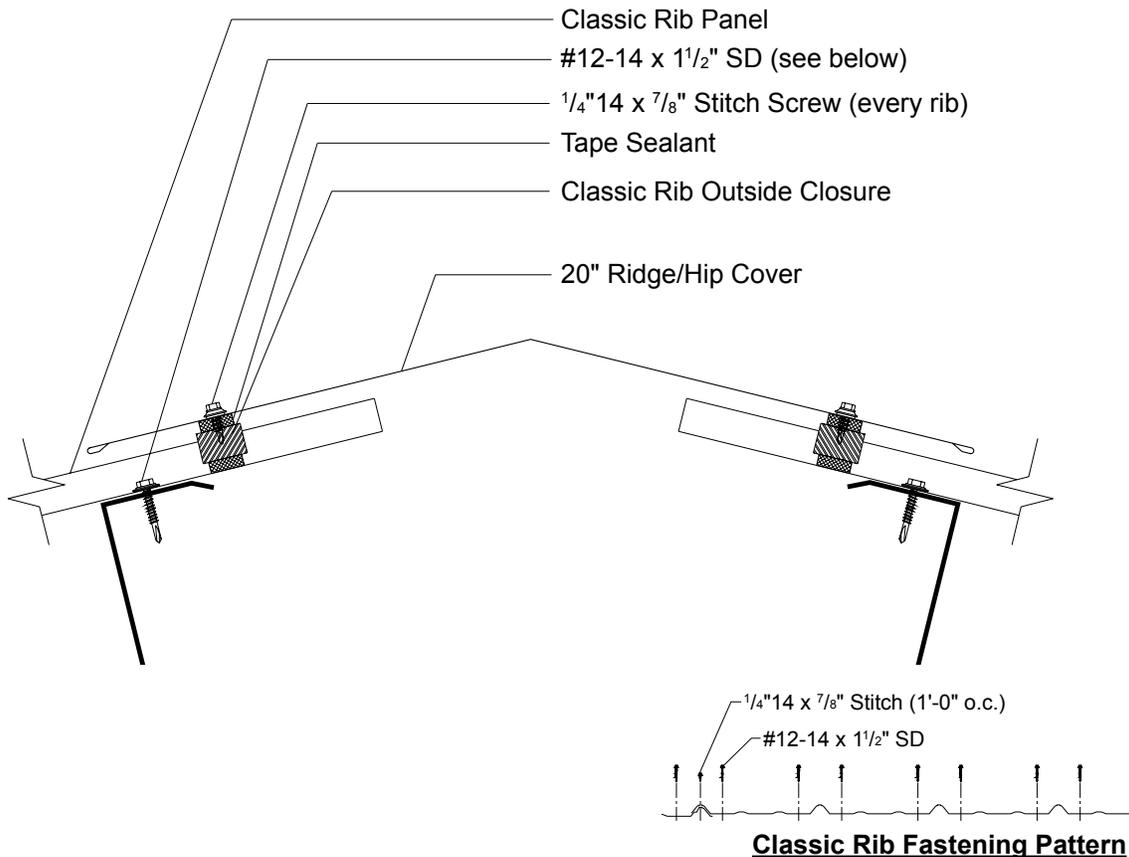
CLASSIC RIB® HIGH SIDE EAVE DETAIL

3:12 Slope
Minimum



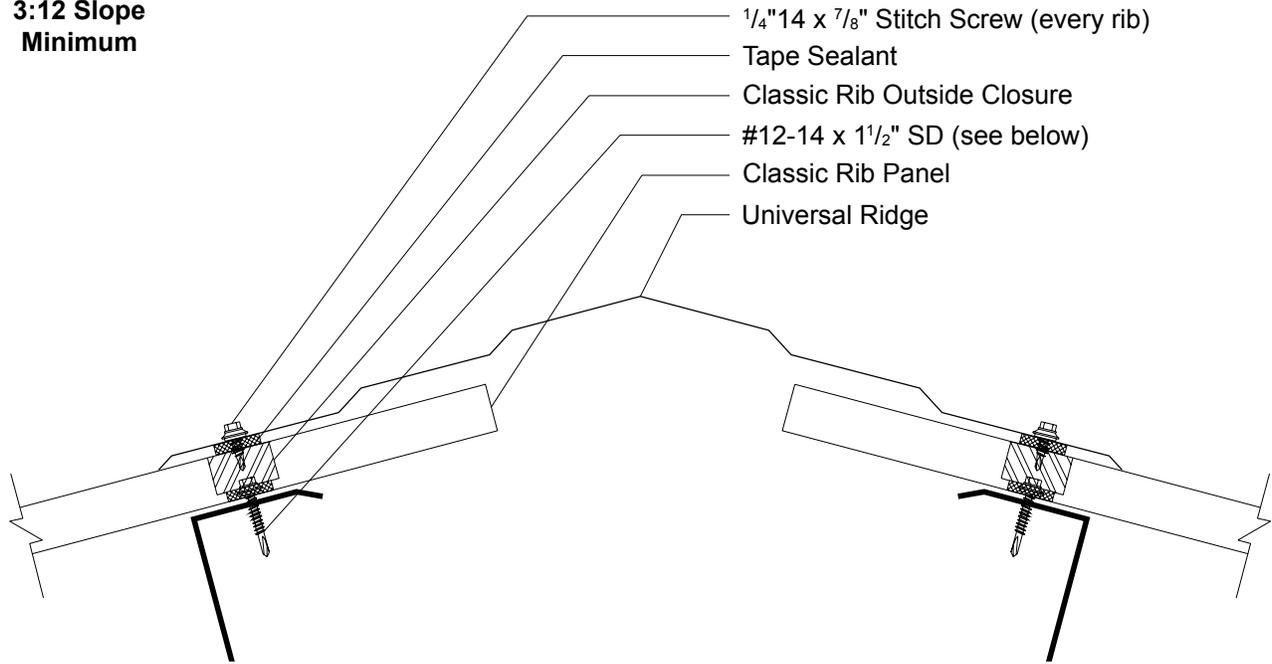
CLASSIC RIB 20" RIDGE/HIP DETAIL

3:12 Slope
Minimum

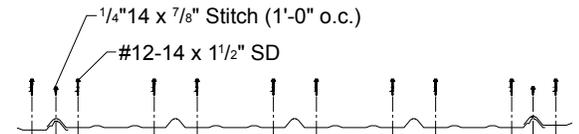


CLASSIC RIB® RIDGE DETAIL

3:12 Slope
Minimum



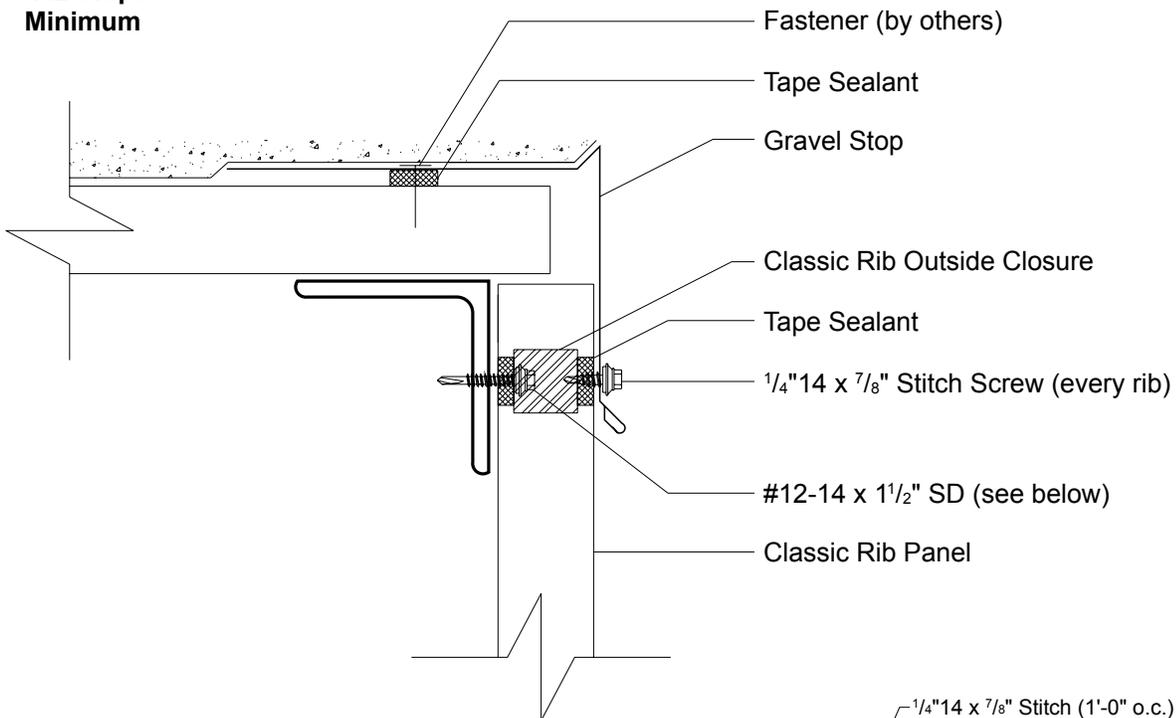
- 1/4"14 x 7/8" Stitch Screw (every rib)
- Tape Sealant
- Classic Rib Outside Closure
- #12-14 x 1 1/2" SD (see below)
- Classic Rib Panel
- Universal Ridge



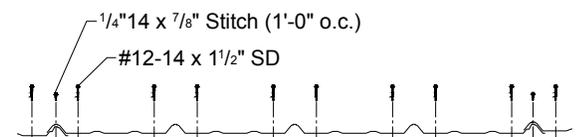
Classic Rib Fastening Pattern

CLASSIC RIB GRAVEL STOP DETAIL

3:12 Slope
Minimum

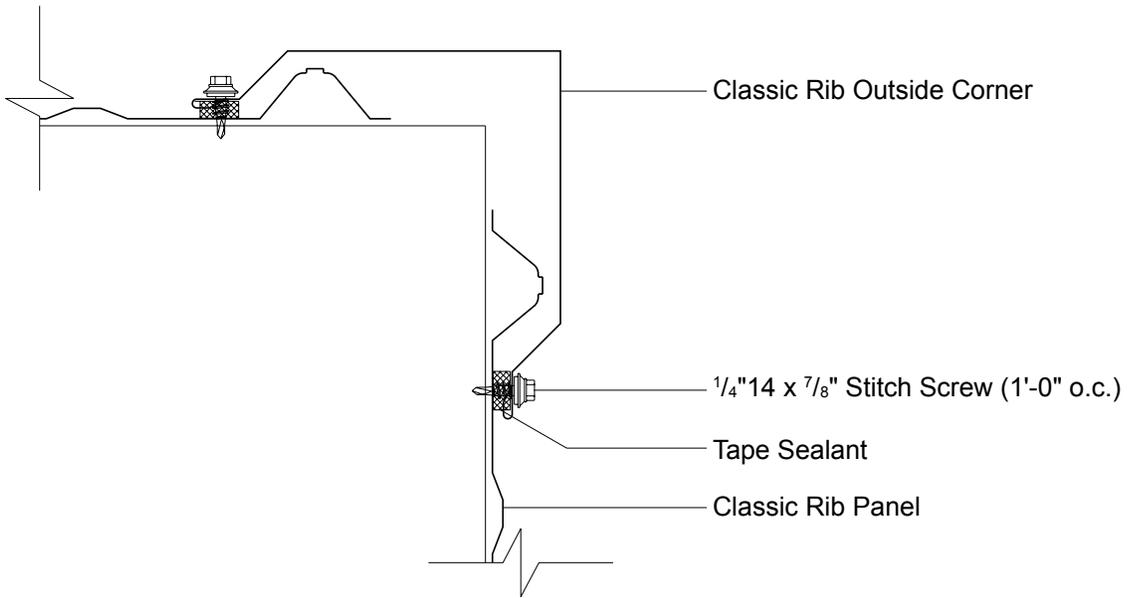


- Fastener (by others)
- Tape Sealant
- Gravel Stop
- Classic Rib Outside Closure
- Tape Sealant
- 1/4"14 x 7/8" Stitch Screw (every rib)
- #12-14 x 1 1/2" SD (see below)
- Classic Rib Panel

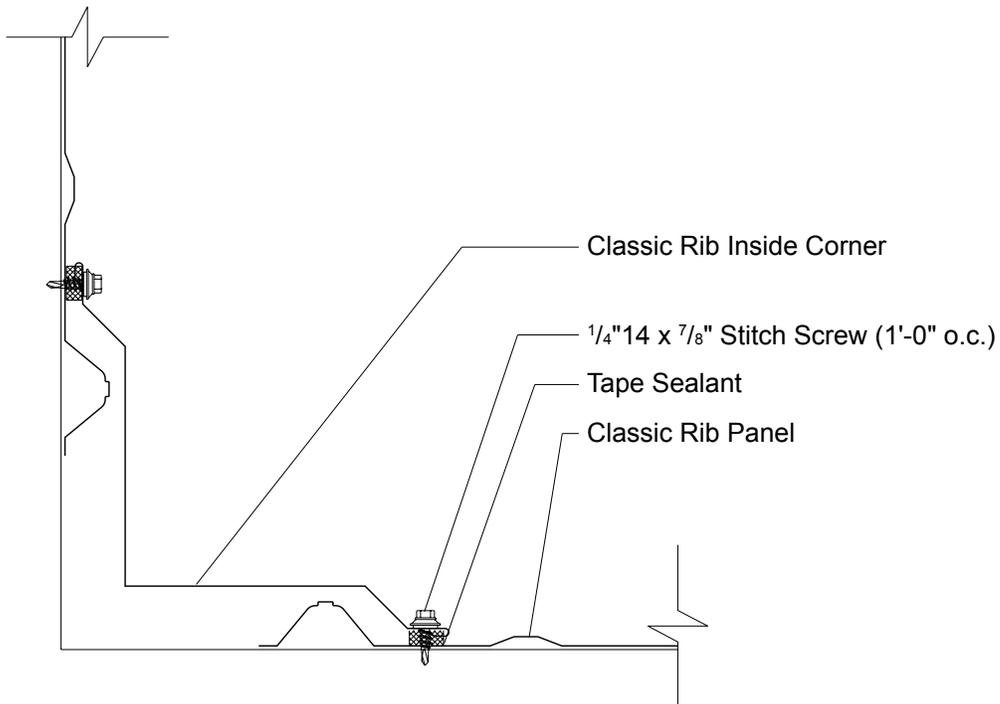


Classic Rib Fastening Pattern

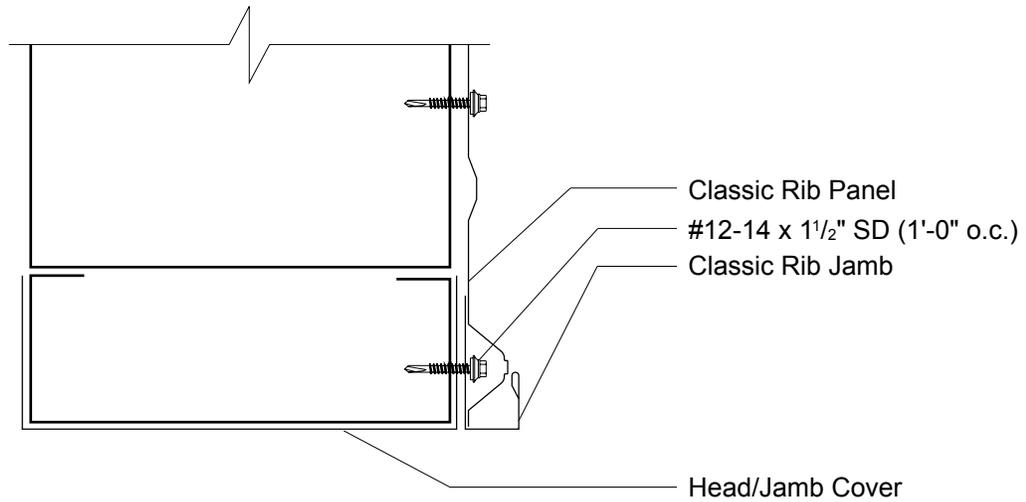
CLASSIC RIB® OUTSIDE CORNER DETAIL



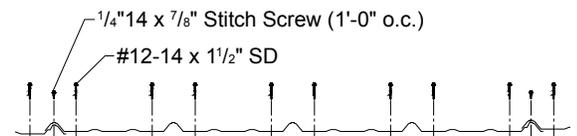
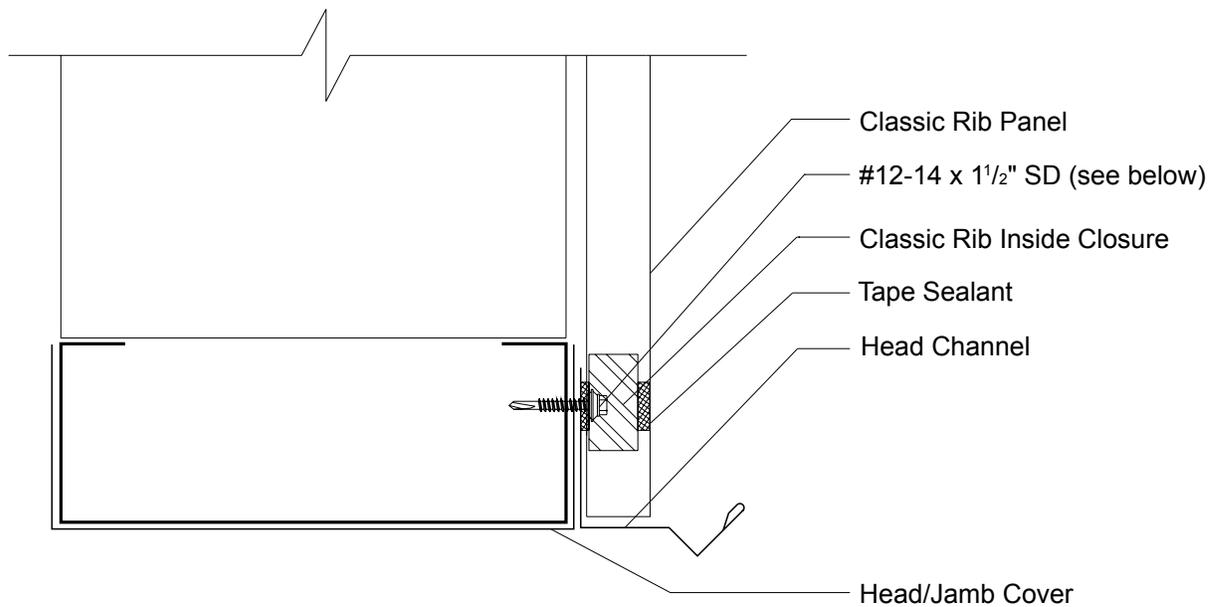
CLASSIC RIB INSIDE CORNER DETAIL



CLASSIC RIB® JAMB DETAIL



CLASSIC RIB HEAD DETAIL



Classic Rib Fastening Pattern

