DESERT RIB[®]

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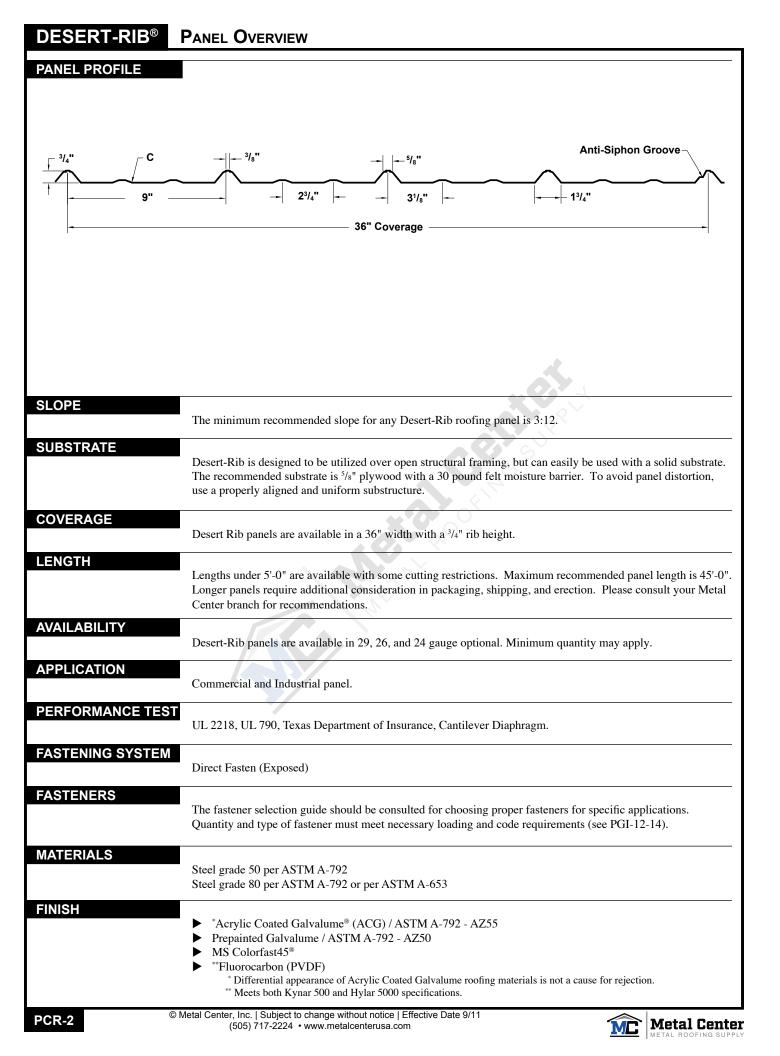
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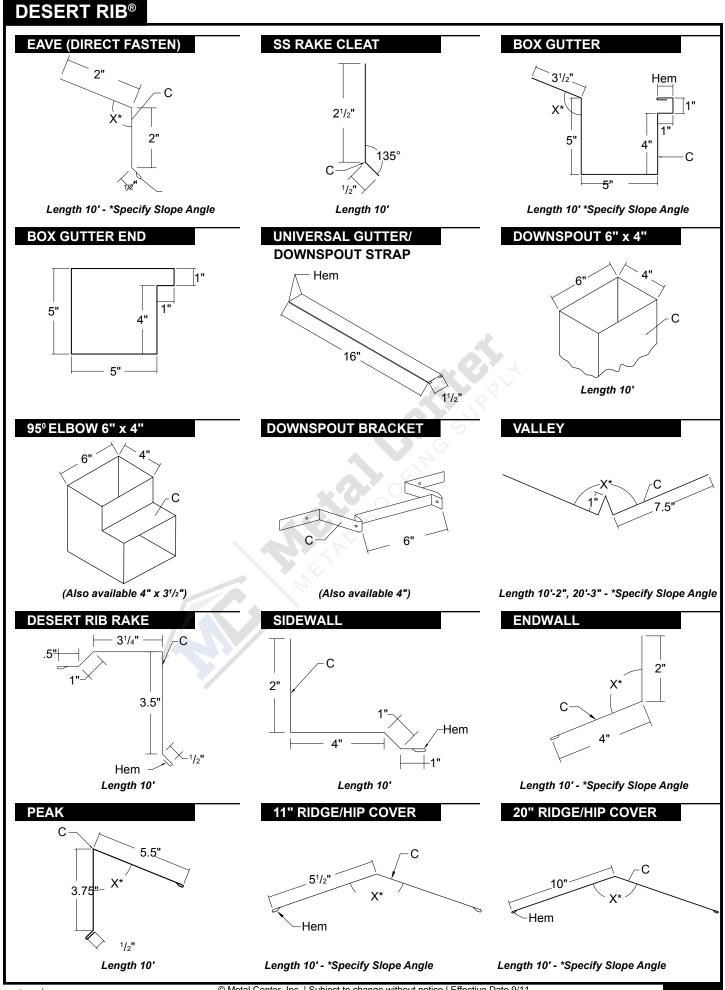
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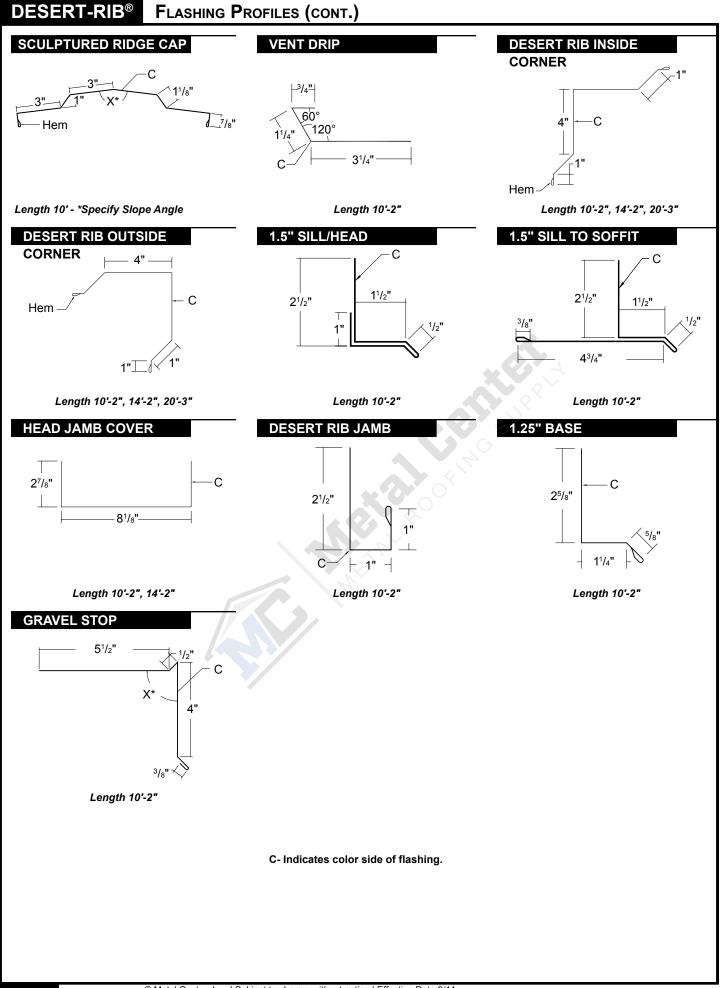


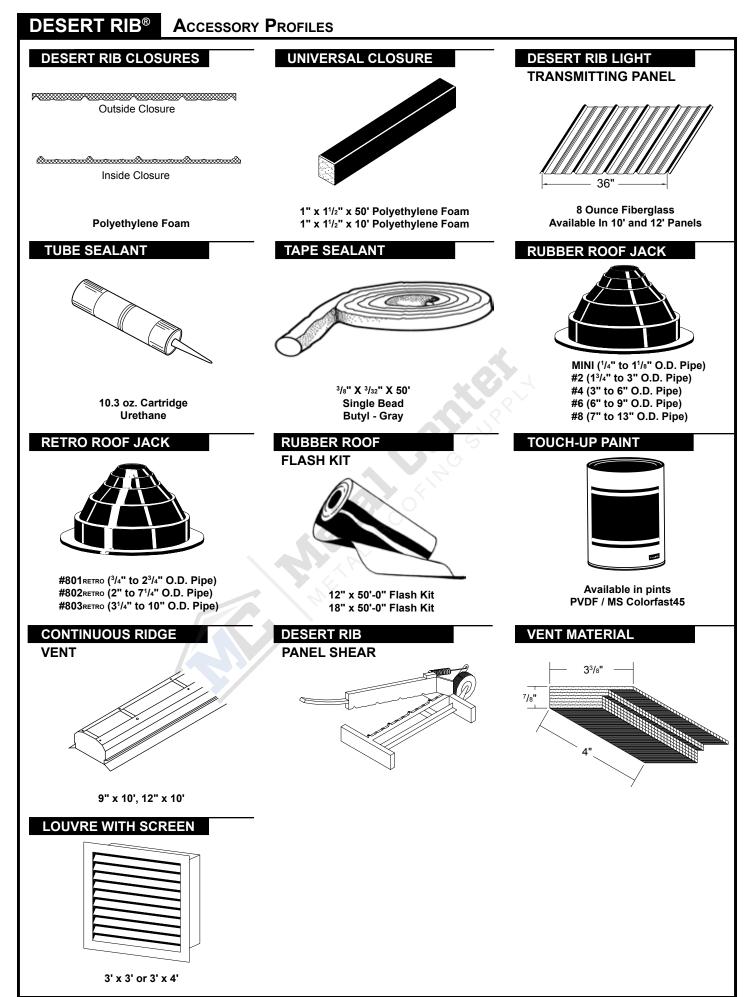




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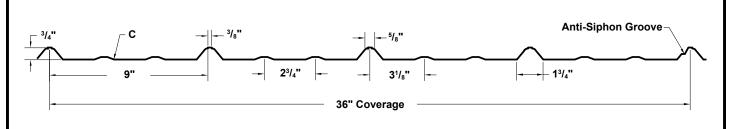
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DESERT-RIB[®] Section Properties and General Information

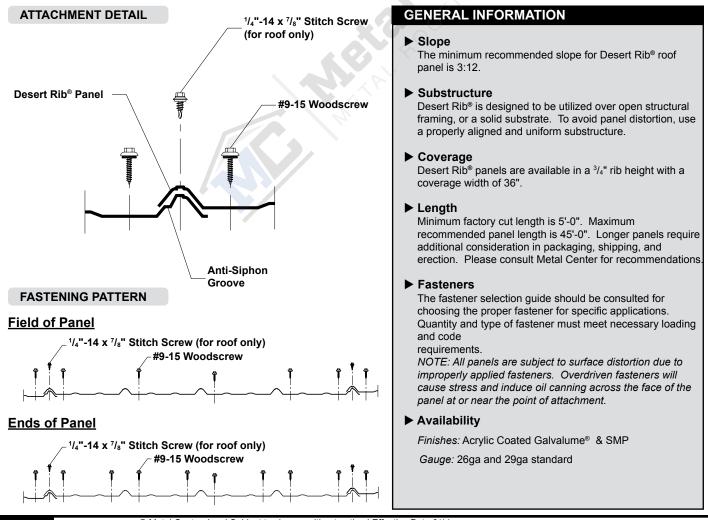


SECTION PROPERTIES				ALLOWABLE UNIFORM LOADS PSF (3 or More Equal Spans)								F											
	Width	Yield	Weight	Top in Co	npression	Bottom in C	ompression	Inward Load			Outward Load												
Ga.		KSI					PSF	Ixx	Sxx	Ixx	Sxx	4 51	21			0.51	41	4 51	21	-		0.51	
				In⁴/ft	ln³/ft	In⁴/ft	ln³/ft	1.5'	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				

1. 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.

2. Allowable load is calculated in accordance with AISI 2001 specifications considering bending, shear, combined bending and sheer 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.

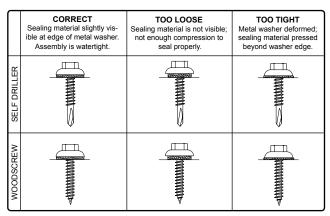
- 3. Deflection consideration is limited by a maximum deflection ratio of L/180 of span.
- 4. Allowable loads do not include a 1/3 stress increase in uplift.
- 5. **Diaphragm Capacity -** 296 plf average Ultimate Shear Strength using the above fastening pattern on 2x supports located 2' on center per ASTM E 455-04



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.



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.

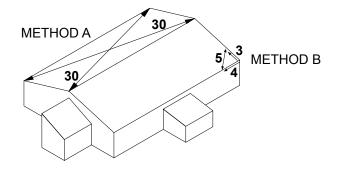
CONDITION OF SUBSTRUCTURE

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

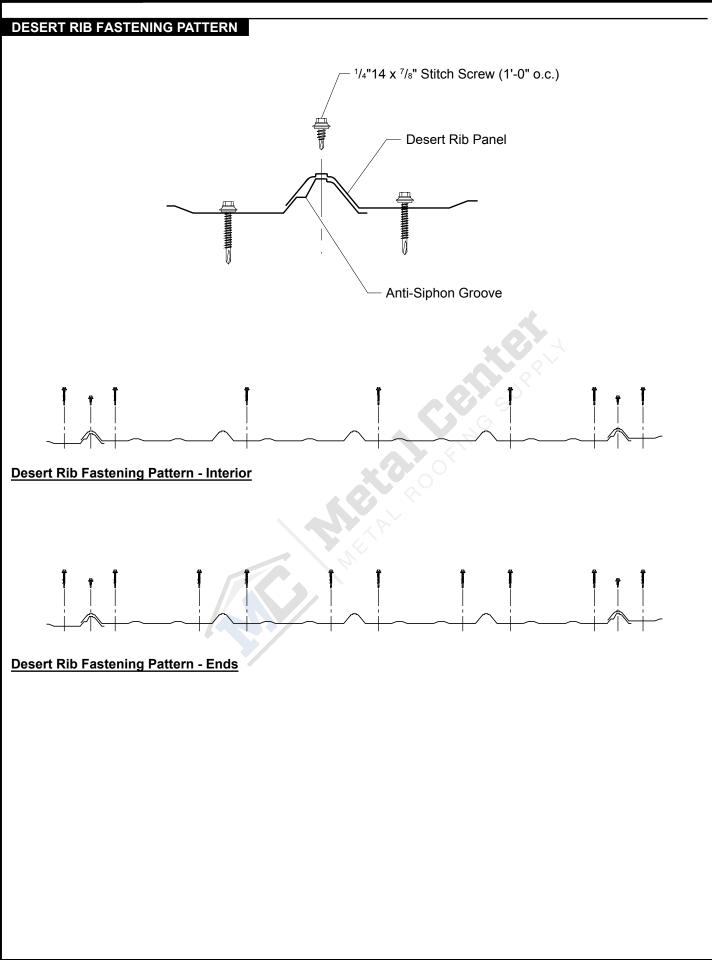
The installer should check the roof deck for squareness before installing Desert Rib panels. Several methods can be used to verify squareness of the structure for proper installation of the panels.

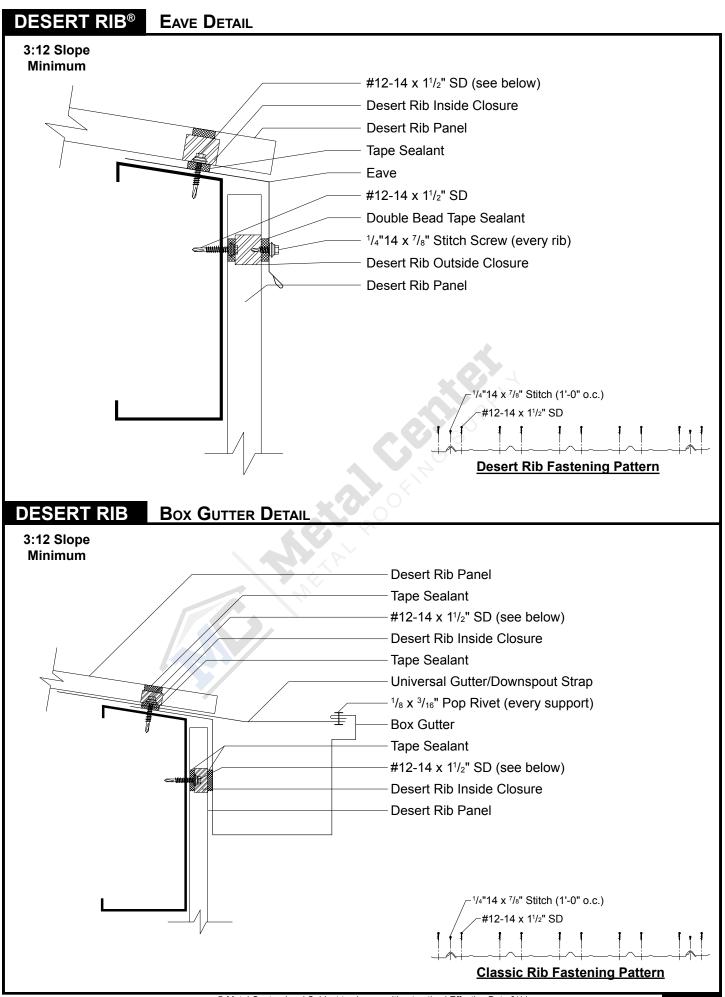
METHOD "A" - One method for checking the roof for squareness is to measure diagonally across one slope of the roof from similar points at the ridge and eave and obtain the same dimension.

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.

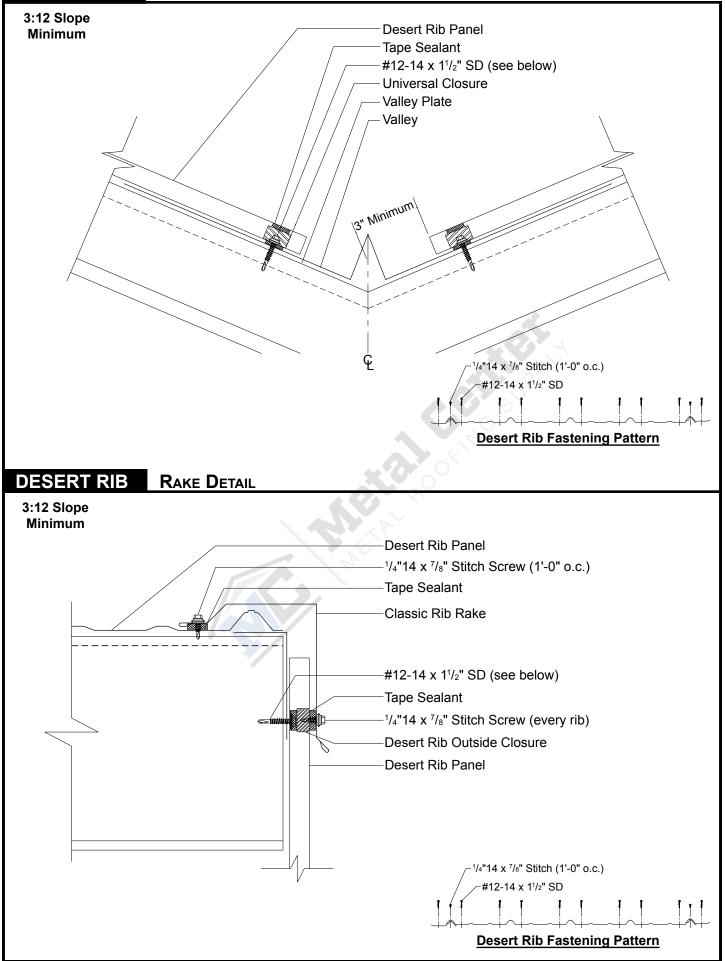


DESERT-RIB[®] Design / Installation Considerations (cont.)

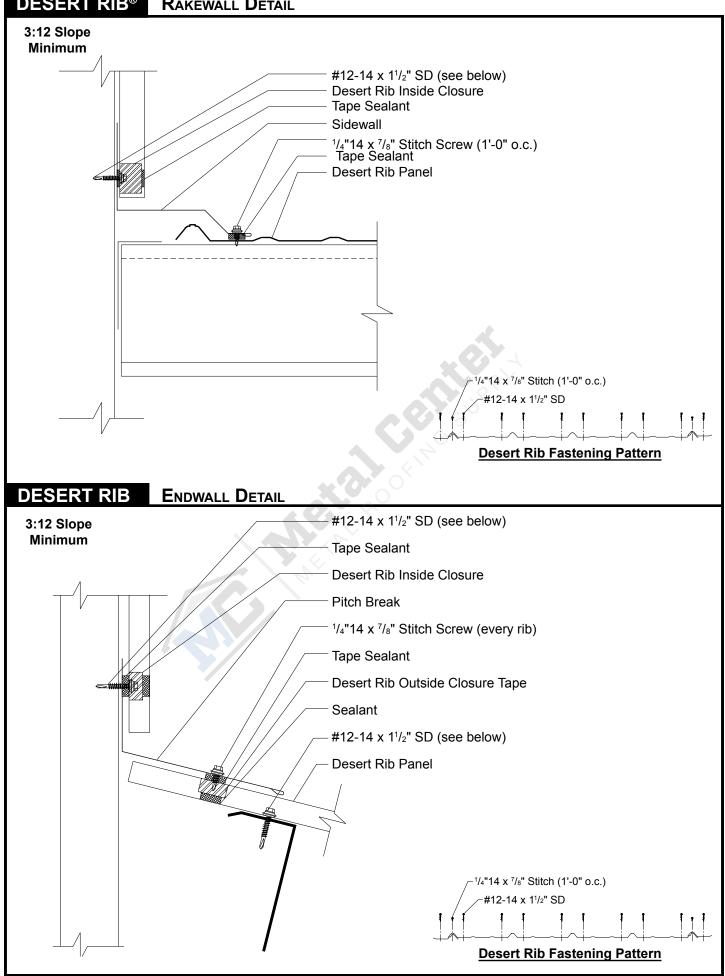




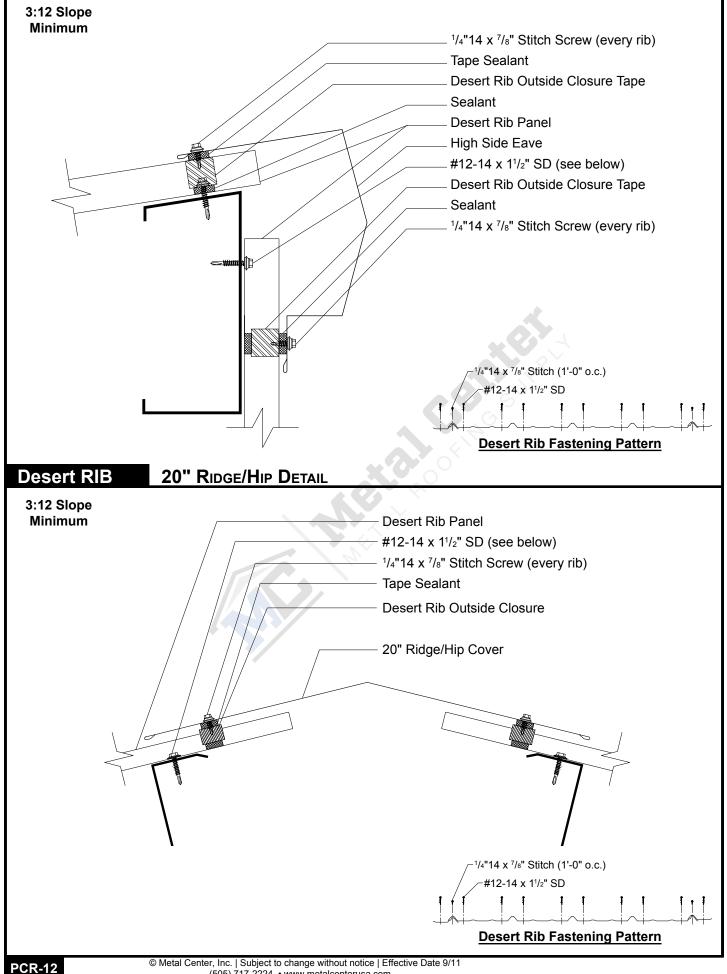
DESERT-RIB[®] Valley Detail

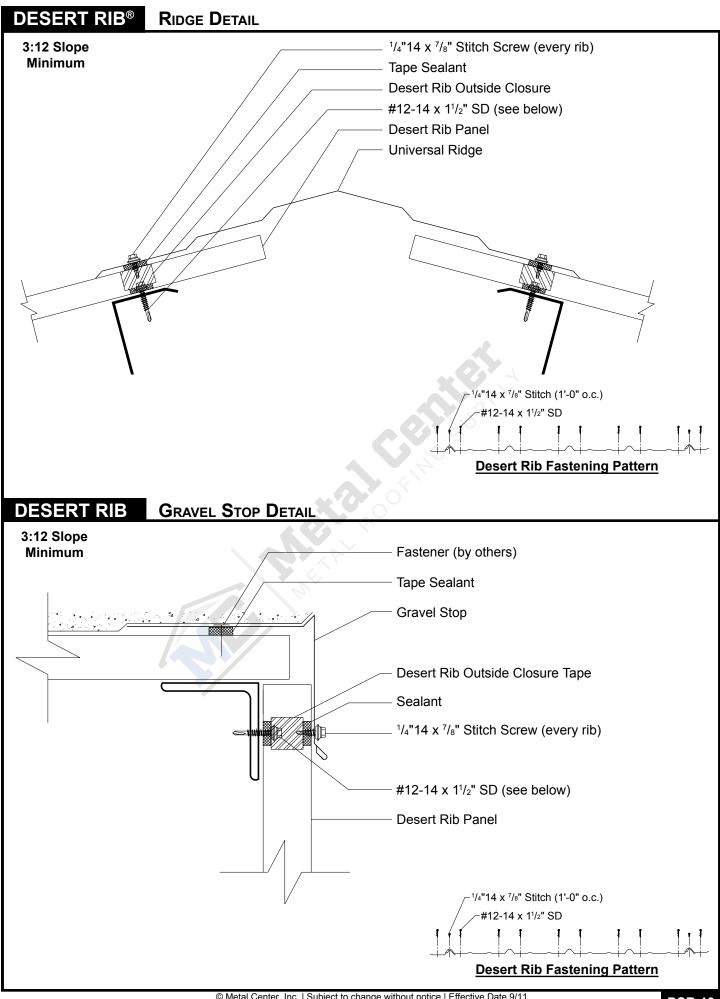


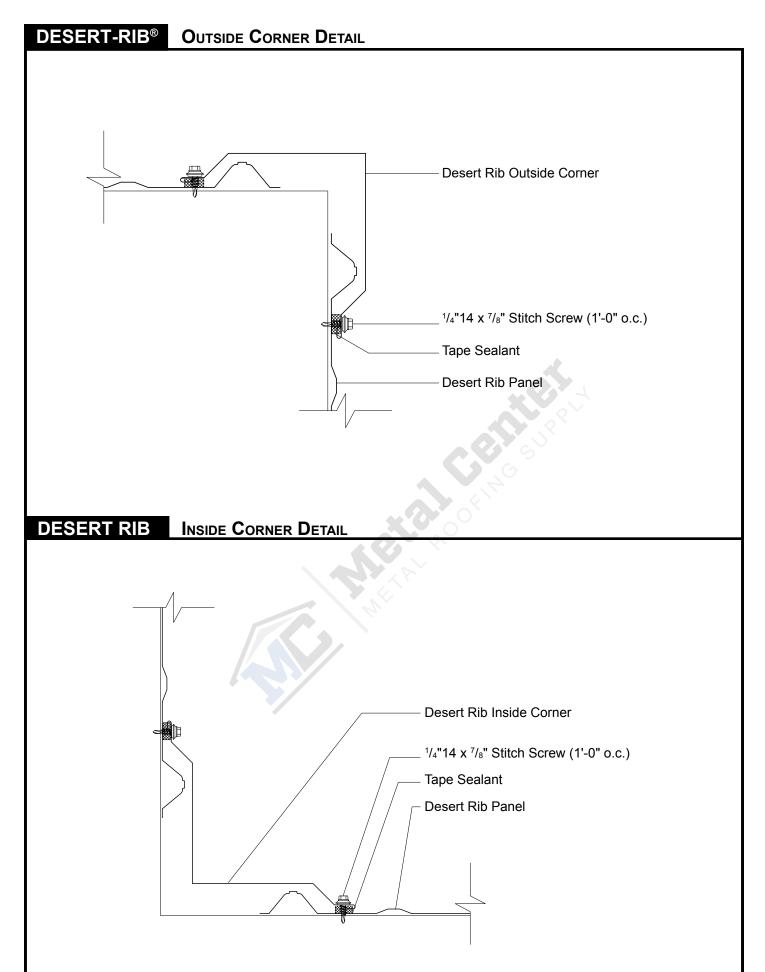


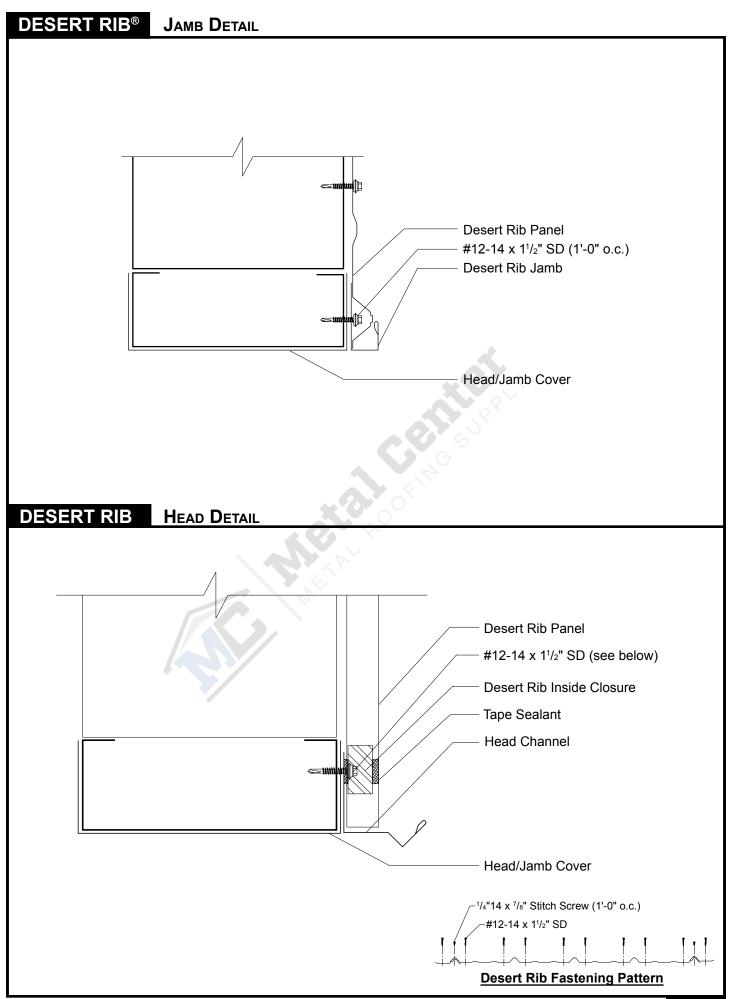


DESERT-RIB[®] HIGH SIDE EAVE DETAIL









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