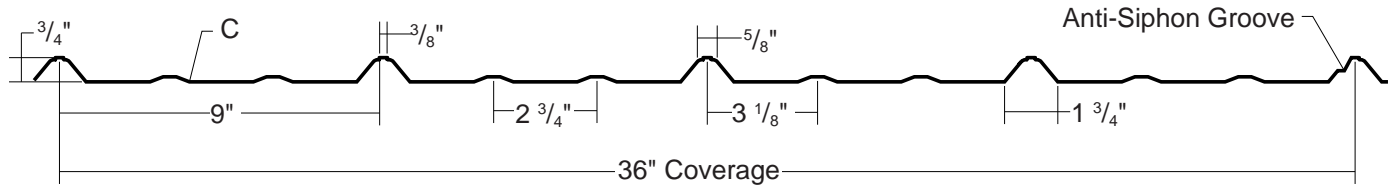


CLASSIC RIB®

CONDENSED
TECHNICAL
REFERENCE



COMMERCIAL
RESIDENTIAL
PANEL

DIRECT
FASTEN

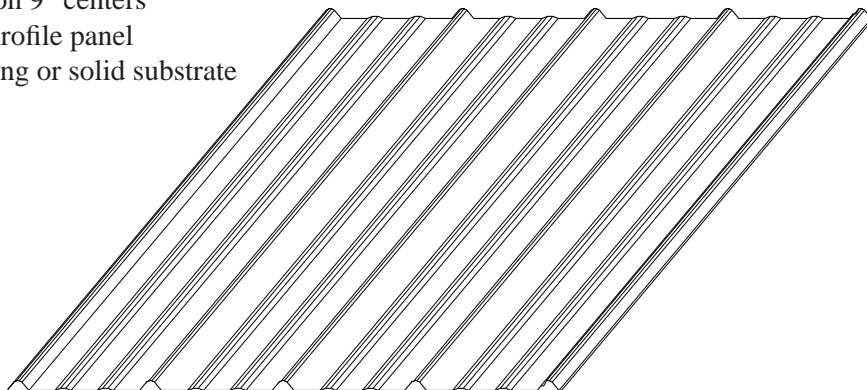
36"
COVERAGE

MINIMUM
SLOPE
3:12

OPEN FRAMING OR
SOLID SUBSTRATE

PANEL OVERVIEW

- ▶ Finishes: MS Colorfast45® and Acrylic Coated Galvalume®
- ▶ Substates:
 - Acrylic Coated Galvalume® - AZ55 per ASTM A792
 - MS Colorfast45® - AZ50 per ASTM A792 or G60, G90, & G100 per ASTM A653
- ▶ Gauge: 26ga and 29ga standard, 24ga available at select branches
- ▶ 36" panel coverage, $\frac{3}{4}$ " rib height
- ▶ Bell top trapezoidal rib on 9" centers
- ▶ Exposed fastened, low profile panel
- ▶ Applies over open framing or solid substrate



TESTING

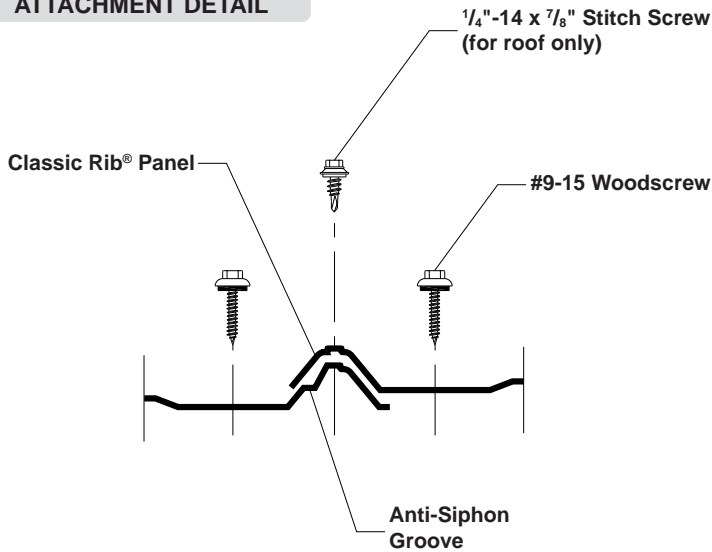
- ▶ UL 2218, Class 4 Impact Resistance
- ▶ UL 790, Class A Fire Resistance Rating
- ▶ 2007 Florida Building Code Approved 7490.1, 7490.2, 8131.2, 9107.2, 9482.1, 9482.2, 10916.3, 11560.1
- ▶ Miami-Dade County Approved 06-0410.08, 07-0731.08
- ▶ UL 580 Class 90 Wind Uplift Construction Numbers 560, 584
- ▶ Texas Wind Storm Evaluation RC-161
- ▶ ASTM E 455-04, Diaphragm Capacity

ms metal sales
manufacturing corporation

CLASSIC RIB®

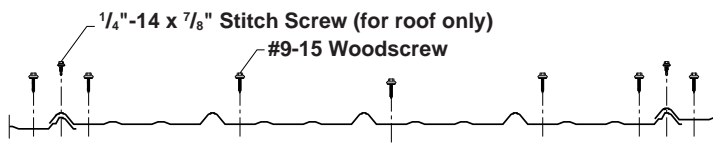
CONDENSED TECHNICAL REFERENCE

ATTACHMENT DETAIL

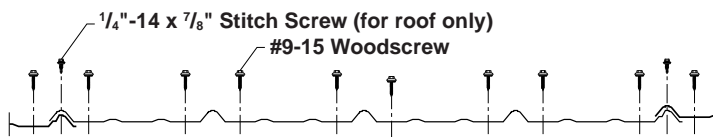


FASTENING PATTERN

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, 24ga optional*

SECTION PROPERTIES

Ga.	Width in	Yield ksi	Weight psf	Top In Compression		Bottom In Compression	
				Ixx in ⁴ /ft	Sxx in ³ /ft	Ixx in ⁴ /ft	Sxx in ³ /ft
29	36"	80	.62	0.0100	0.0151	0.0053	0.0118
26	36"	80	.86	0.0123	0.0190	0.0080	0.0151
24	36"	50	1.03	0.0163	0.0249	0.0103	0.0208

ALLOWABLE UNIFORM LOADS psf (3 or More Equal Spans)

Inward Load						Outward Load					
1.5'	2'	2.5'	3'	3.5'	4'	1.5'	2'	2.5'	3'	3.5'	4'
142	81	52	36	27	21	179	103	66	46	34	26
182	104	67	47	34	26	225	129	84	58	43	33
208	119	77	53	39	30	245	141	91	64	47	36

- 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

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