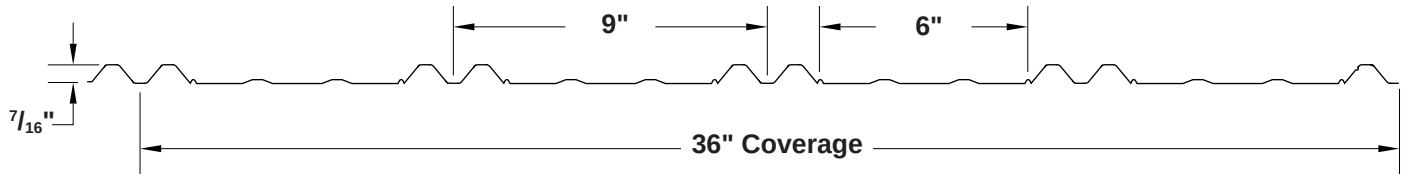
BI-RIB



COMMERCIAL RESIDENTIAL PANEL

DIRECT FASTEN

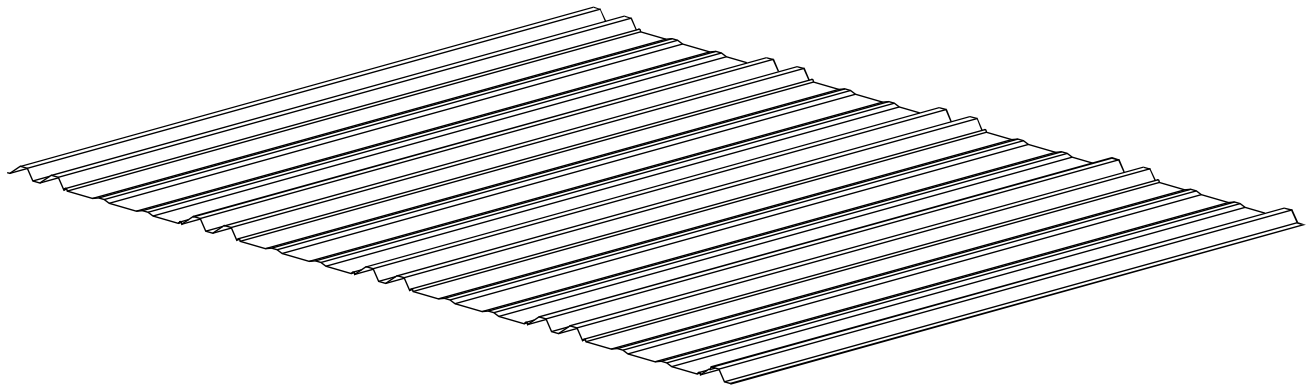
36" COVERAGE

MINIMUM 3:12 SLOPE

OPEN FRAMING OR SOLID SUBSTRATE

PANEL OVERVIEW

- Finishes: Bare Galvanized, MS Colorfast45®, and Acrylic Coated Galvalume®
- Gauges: 26ga, 29ga standard
- 36" panel coverage, $^{7}/_{16}$" rib height
- Double trapezoidal rib on 9" centers
- Exposed fastened, low profile panel
- Applies over open framing or solid substrate
- 3:12 slope minimum



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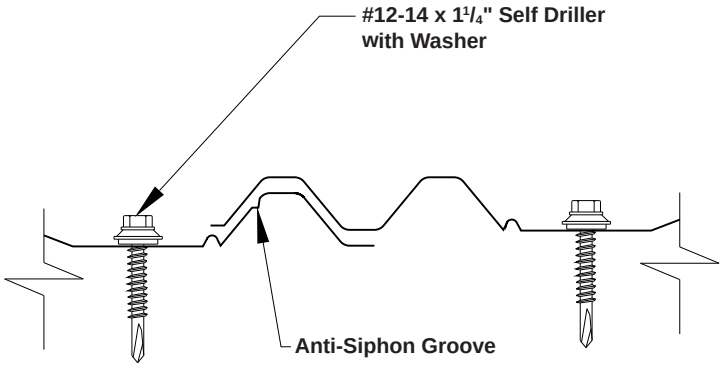
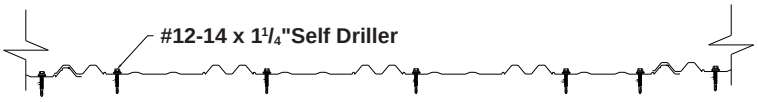
BI-RIB

ATTACHMENT DETAIL



FASTENING PATTERN



GENERAL INFORMATION

▶ Slope
The minimum recommended slope for Bi-Rib panel is 3:12.

▶ Substructure
Bi-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
Bi-Rib panels are available in a 7/16" 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. (For applications involving the use of nails instead of screws, Metal Sales recommends nailing through the high part of the rib.)
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: Bare Galvanized, Acrylic Coated Galvalume®, and MS Colorfast45®.
Gauges: 26ga and 29ga

SECTION PROPERTIES

ALLOWABLE UNIFORM LIVE LOADS PSF (3 or More Equal Spans)

Ga.	Width (in.)	Yield KSI	Weight PSF	Top in Compression		Bottom in Compression		Inward (Gravity / Deflection) Load						Outward Uplift (Stress) Load					
				Ixx In^4/ft	Sxx In^3/ft	Ixx In^4/ft	Sxx In^3/ft	1'	1.5'	2'	2.5'	3'	3.5'	1'	1.5'	2'	2.5'	3'	3.5'
29	36"	60	0.64	0.0037	0.0114	0.0030	0.0111	296	135	77	49	34	25	304	139	79	51	35	26

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.

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