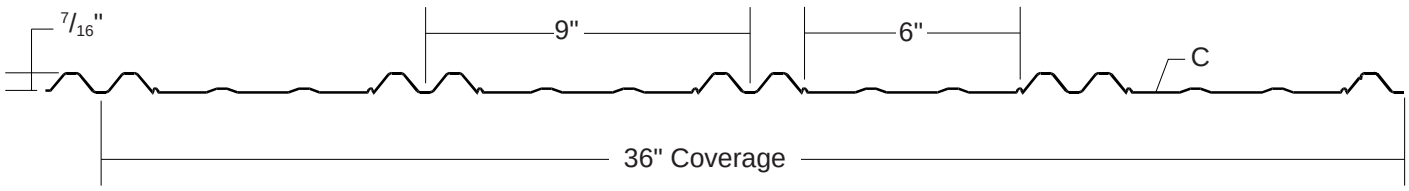
BI-RIB

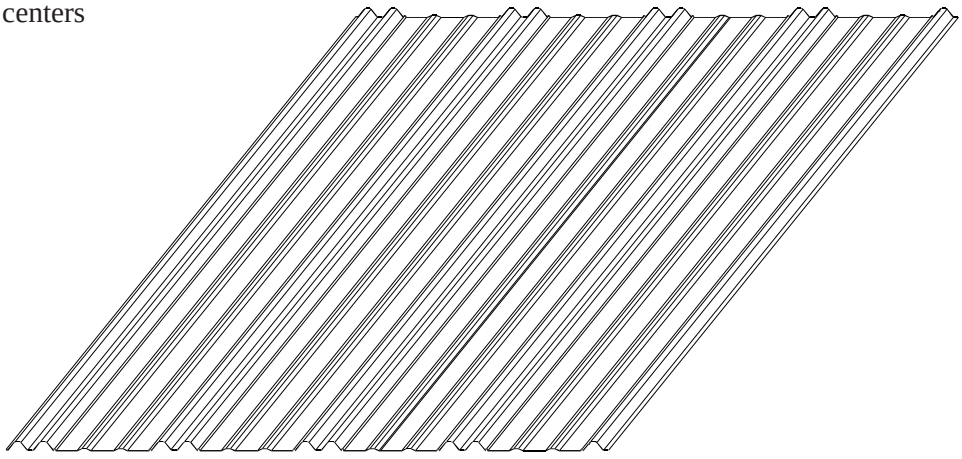
CONDENSED TECHNICAL REFERENCE



COMMERCIAL RESIDENTIAL PANEL | **EXPOSED FASTENED** | **36" COVERAGE** | **MINIMUM SLOPE 3:12** | **OPEN FRAMING OR SOLID SUBSTRATE**

PANEL OVERVIEW

- Finishes: MS Colorfast45®, Acrylic Coated Galvalume® and Bare Galvanized
- Corrosion Protection: AZ55 per ASTM A 792 for unpainted Galvalume®
  AZ50 per ASTM A 792 for painted Galvalume®
  G60, G90 or G100 per ASTM A 653 for Galvanized
- Gauges: 29 ga and 26 ga standard
- 36" panel coverage, 7/16" rib height
- Panel Length: Minimum: 5'; Maximum: 45' recommended
- Exposed fastened, low profile roof and wall system
- Double trapezoidal ribs on 9" centers
- Minimum roof slope: 3:12



TESTING AND APPROVALS

- UL 2218 Impact Resistance - Class 4
- UL 790 Fire Resistance Rating - Class A, per building code
- UL 263 Fire Resistance Rating - per assembly

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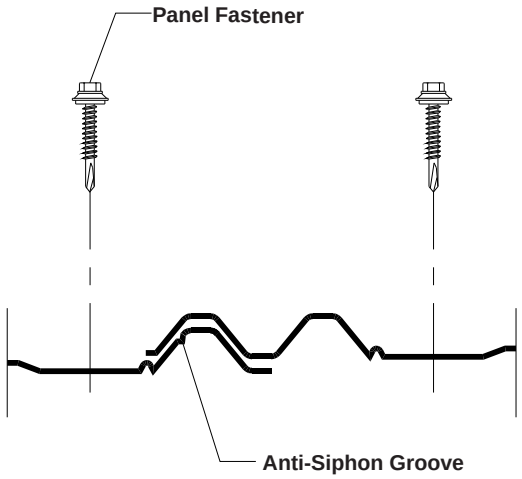
ATTACHMENT DETAIL



FASTENING PATTERN

Ends and Field of Panel

FASTENER INFORMATION

Overdriven fasteners will cause panel distortions.

Fasteners should extend 1/2" or more past the inside face of the support material.

Thick panels (ex. 18 ga) or supports (ex. 1/2" steel) may require predrilling of holes for screws.

Panel Fasteners:
- Attaching to Wood:
  - #10-14 Wood Screw
  - #10-14 XL Wood Screw
- Attaching to Steel:
  - #12-14 Self Drilling Screw
  - #12-14 XL Self Drilling Screw

Trim Fastener:
- 1/4"-14 x 7/8" Stitch Screw
- 1/4"-14 x 7/8" XL Stitch Screw

SECTION PROPERTIES

ALLOWABLE UNIFORM LOADS, psf For various fastener spacings

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'	1.5'	2'	2.5'	3'	3.6'	1'	1.5'	2'	2.5'	3'	3.5'
29	36	80	0.63	0.0030	0.0108	0.0023	0.0102	273	125	69	35	20	13	286	131	69	35	20	13
26	36	80	0.80	0.0040	0.0138	0.0033	0.0130	346	158	82	42	24	15	366	168	82	42	24	15

1. Theoretical section properties have been calculated per AISI 2007 'North American Specification 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 2007 specifications considering bending, shear, combined bending and shear and deflection. Allowable load considers the 3 or more equal spans condition. Allowable load does not address web crippling, fasteners, support material or load testing. 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 for wind.

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