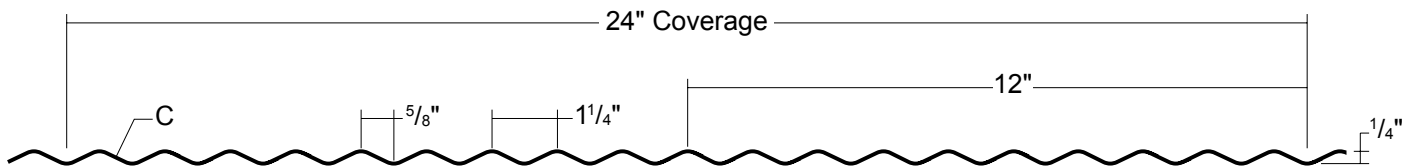


1.25" CORRUGATED

Condensed
Technical
Reference



AGRICULTURAL
RESIDENTIAL
PANEL

EXPOSED
FASTENED

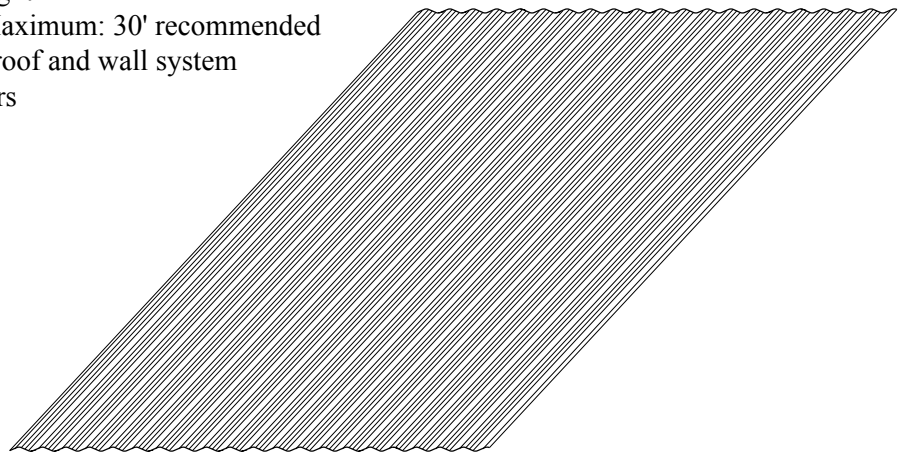
24"
COVERAGE

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: 30 ga, 29 ga and 26 ga standard
- ▶ 24" panel coverage, 1/4" rib height
- ▶ Panel Length: Minimum: 3'; Maximum: 30' recommended
- ▶ Exposed fastened, low profile roof and wall system
- ▶ Corrugated ribs on 1.25" centers
- ▶ Minimum roof slope: 3:12



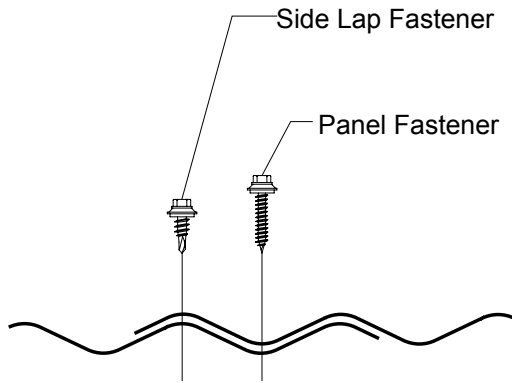
TESTING AND APPROVALS

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

ms metal sales[™]
manufacturing corporation

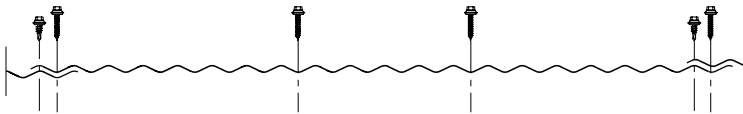
1.25" CORRUGATED

ATTACHMENT DETAIL



FASTENING PATTERN

Typical Screw Fastening Pattern



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

Side Lap Fastener:

1/4"-14 x 7/8" Stitch Screw

1/4"-14 x 7/8" XL Stitch 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					
				I _{xx} in ⁴ /ft	S _{xx} in ³ /ft	I _{xx} in ⁴ /ft	S _{xx} in ³ /ft	1'	1.25'	1.5'	1.75'	2'	2.5'	1'	1.25'	1.5'	1.75'	2'	2.5'
30	24	80	0.61	0.0010	0.0066	0.0010	0.0063	167	86	50	31	21	11	167	86	50	31	21	11
29	24	80	0.64	0.0010	0.0070	0.0010	0.0067	167	86	50	31	21	11	167	86	50	31	21	11
26	24	50	0.81	0.0015	0.0087	0.0015	0.0085	196	126	74	47	31	16	202	113	65	41	27	14

- Theoretical section properties have been calculated per AISI 2016 'North American Specification for the Design of Cold-Formed Steel Structural Members'. I_{xx} and S_{xx} are effective section properties for deflection and bending.
- Allowable load is calculated in accordance with AISI 2016 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.
- Deflection consideration is limited by a maximum deflection ratio of L/180 of span.
- Allowable loads do not include a 1/3 stress increase for wind.