

# 7/8" CORRUGATED

Condensed  
Technical  
Reference

## WALL PANEL



COMMERCIAL  
INDUSTRIAL  
PANEL

EXPOSED  
FASTENED

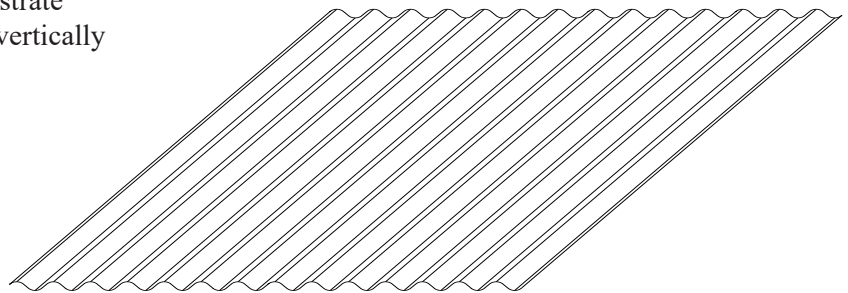
34 2/3"  
COVERAGE

WALL  
PANEL

OPEN FRAMING OR  
SOLID SUBSTRATE

## PANEL OVERVIEW

- ▶ Finishes: Standard: MS Colorfast45<sup>®</sup>, PVDF, Bare Galvanized and Acrylic-Coated Galvalume<sup>®</sup>  
Optional: Weathering Steel
- ▶ Corrosion Protection: AZ55 per ASTM A 792 for unpainted Galvalume<sup>®</sup>  
AZ50 per ASTM A 792 for painted Galvalume<sup>®</sup>  
G90 per ASTM A 653 for Galvanized
- ▶ Gauges: 26 ga and 24 ga standard; 22 ga and 20 ga optional
- ▶ 34 2/3" panel coverage, alternate coverages are available, 7/8" rib height
- ▶ Panel Length: Minimum: 3'; Maximum: 45' recommended
- ▶ Applies over open framing or solid substrate
- ▶ Panels can be installed horizontally or vertically



## TESTING AND APPROVALS

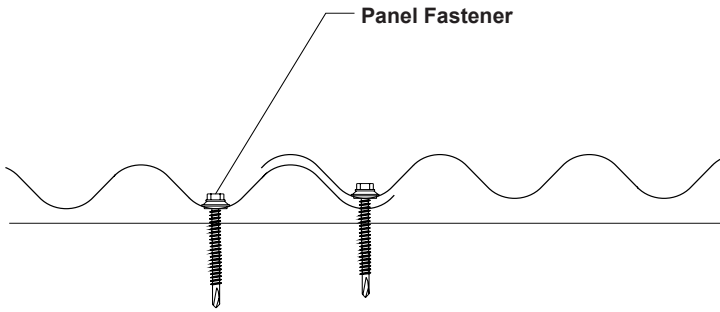
- ▶ UL 2218 Impact Resistance - Class 4
- ▶ UL 263 Fire Resistance Rating - per assembly
- ▶ ASTM E 283 Air Leakage - 0.004 cfm/ft<sup>2</sup> at 6.24 psf \*
- ▶ ASTM E 331 Water Penetration - none at 12 psf\*
- ▶ ASTM E 1592 Structural Performance
- ▶ ASTM E 330 Structural Performance
- ▶ 2020 FBC Approval - FL9482.1

\* uses Double Bead Tape Sealant and Stitch Screws 1' oc in Side Lap

**ms** metal sales<sup>™</sup>  
manufacturing corporation

# 7/8" CORRUGATED

## WALL ATTACHMENT



## 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

Attaching to Steel:

≤12 ga: #12-14 Driller

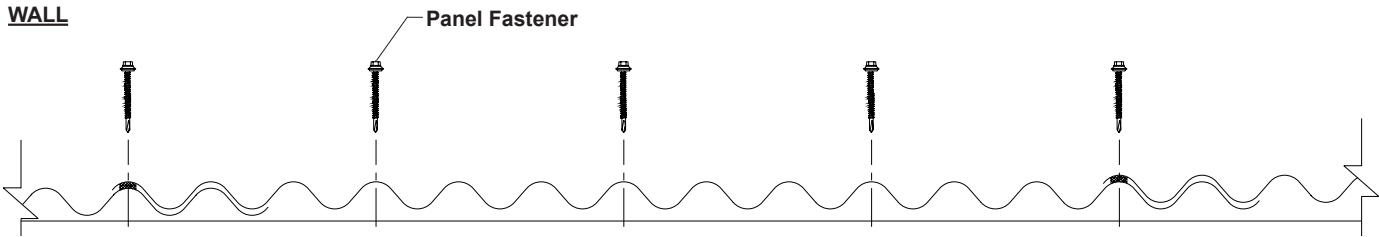
For Galvalume panels, custom fasteners with stainless steel or aluminum head are recommended.

Trim Fasteners:

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

1/8" x 3/16" Pop Rivet

## FASTENING PATTERN



## 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 <sup>4</sup> /ft	Sxx in <sup>3</sup> /ft	Ixx in <sup>4</sup> /ft	Sxx in <sup>3</sup> /ft	2'	3'	4'	5'	6'	7'	2'	3'	4'	5'	6'	7'		
26	34.67	50	0.94	0.0256	0.0576	0.0256	0.0576	386	159	67	34	20	12	386	159	67	34	20	12		
24	34.67	50	1.22	0.0312	0.0739	0.0312	0.0739	412	188	81	41	24	15	412	188	81	41	24	15		
22	34.67	50	1.60	0.0415	0.0950	0.0415	0.0950	530	241	109	56	32	20	530	241	109	56	32	20		
20	34.67	33	1.95	0.0498	0.1139	0.0498	0.1139	419	191	108	64	39	23	419	191	108	64	39	23		

- Theoretical section properties have been calculated per AISI 2016 'North American Specification 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 2016 specifications considering bending, shear, combined bending & shear and deflection. Allowable load does not address web crippling, fasteners, support material or load testing. Allowable load considers the three or more equal spans condition. 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.