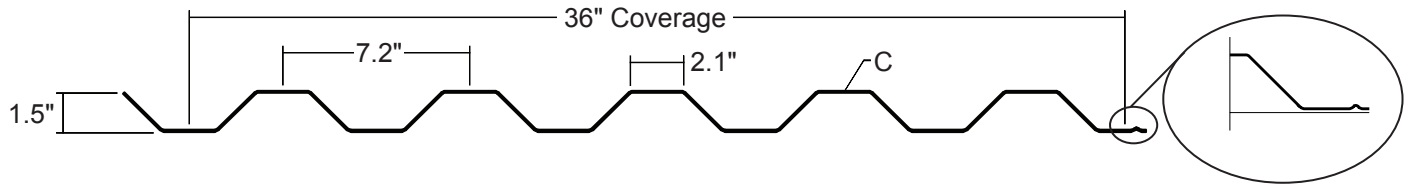


IC72-PANEL WALL

Condensed
Technical
Reference



ARCHITECTURAL
COMMERCIAL
INDUSTRIAL
PANEL

EXPOSED
FASTENED

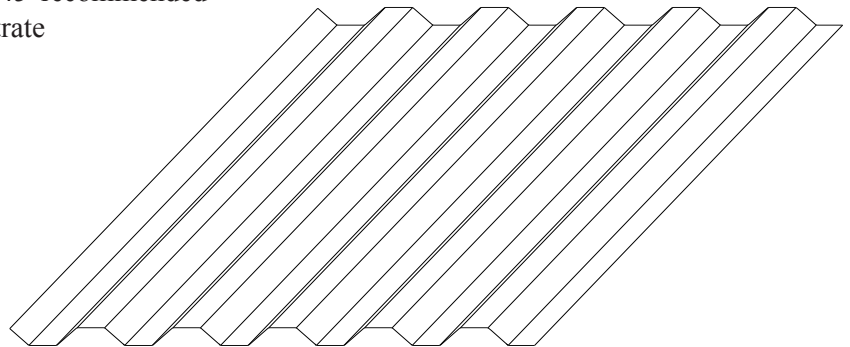
36"
COVERAGE

WALL
PANEL

OPEN FRAMING OR
SOLID SUBSTRATE

PANEL OVERVIEW

- ▶ Finishes: Standard: PVDF and Acrylic-Coated Galvalume®
Optional: MS Colorfast45®
- ▶ Corrosion Protection: AZ55 per ASTM A 792 for unpainted Galvalume®
AZ50 per ASTM A 792 for painted Galvalume®
G90 per ASTM A 653 for Galvanized
- ▶ Gauges: 24 ga standard; 26 ga, 22 ga, 20 ga and 18 ga optional
- ▶ 36" panel coverage, 1½" rib height
- ▶ Panel Length: Minimum: 5'; Maximum: 45' recommended
- ▶ Applies over open framing or solid substrate
- ▶ Exposed fastened panel
- ▶ Trapezoidal ribs on 7.2" centers
- ▶ Optional material: Aluminum



TESTING AND APPROVALS

- ▶ UL 2218 Impact Resistance - Class 4
- ▶ UL 263 Fire Resistance Rating - per assembly
- ▶ ASTM E 283 Air Leakage - 0.0148 cfm/ft² at 12 psf *
- ▶ ASTM E 331 Water Penetration - none at 6.24 psf*
- ▶ ASTM E 330 Structural Performance
- ▶ ASTM E 1592 Structural Performance

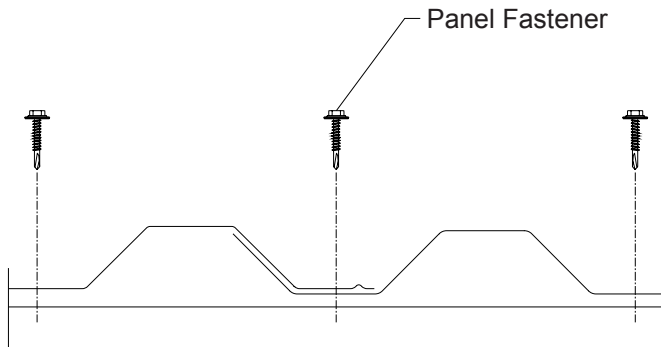
* uses Tape Sealant and Stitch Screws 1' oc in Side Lap

MS Metal Sales™

IC72-PANEL WALL

**Condensed
Technical
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ATTACHMENT DETAIL



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 XL Wood Screw

Attaching to Steel:

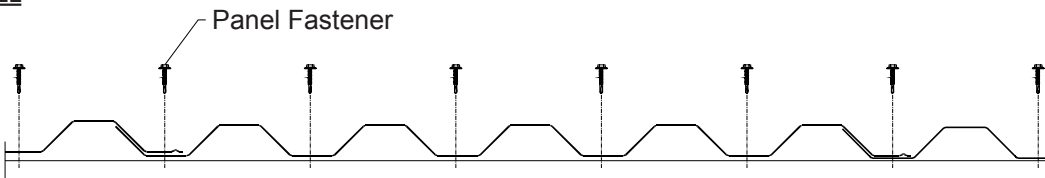
≤12 ga: #12-14 XL Driller

Trim Fasteners:

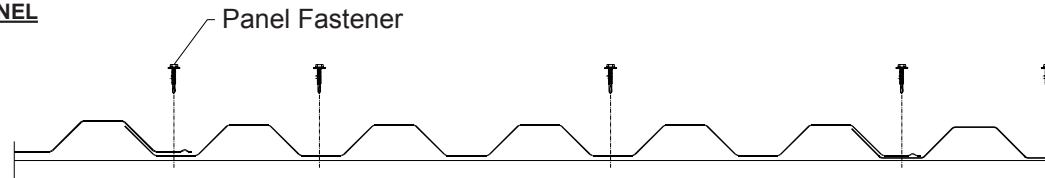
1/4"-14 x 7/8" XL Stitch Screw

FASTENING PATTERNS

END OF PANEL



FIELD OF PANEL



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	Sxx	Ixx	Sxx												
				in ⁴ /ft	in ³ /ft	in ⁴ /ft	in ³ /ft	5'	6'	7'	8'	9'	10'	5'	6'	7'	8'	9'	10'
26	36	50	0.88	0.0655	0.0678	0.0666	0.0748	55	39	29	22	18	14	59	42	31	24	19	16
26	36	80	0.88	0.0623	0.0628	0.0633	0.0691	60	43	32	25	20	16	65	46	34	27	21	16
24	36	50	1.15	0.0977	0.1082	0.0953	0.1122	101	71	52	40	29	21	98	69	51	39	29	21
22	36	50	1.51	0.1376	0.1562	0.1340	0.1623	148	103	76	54	38	28	143	100	74	54	38	28
20	36	33	1.85	0.1872	0.2226	0.1818	0.2321	140	98	72	55	44	34	135	94	69	53	42	34
18	36	33	2.45	0.2641	0.3231	0.2576	0.3255	196	137	101	78	61	45	194	136	100	77	61	45

- 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 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.

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