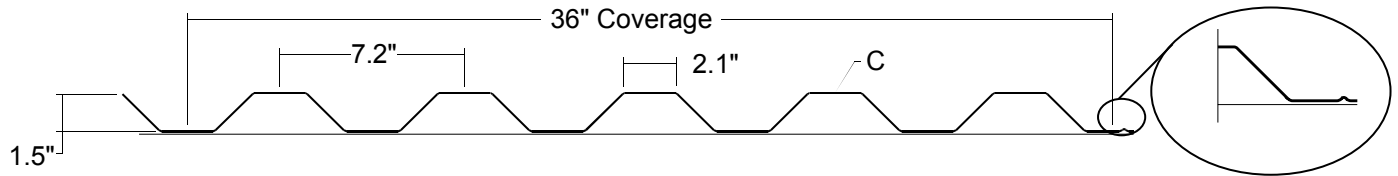


# IC72-PANEL WALL

Condensed  
Technical  
Reference



ARCHITECTURAL  
COMMERCIAL  
INDUSTRIAL  
PANEL

EXPOSED  
FASTENED

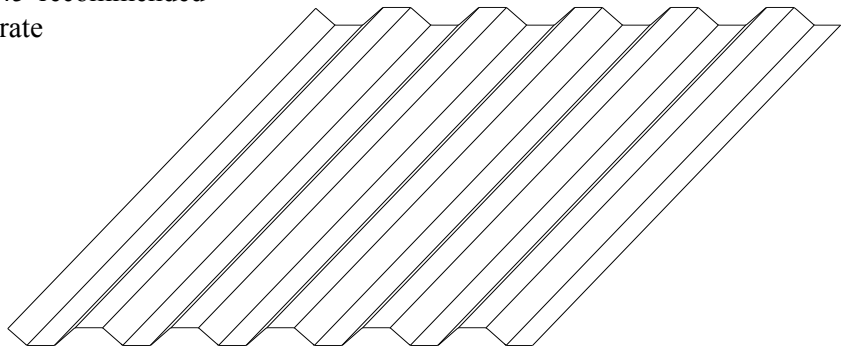
36"  
COVERAGE

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

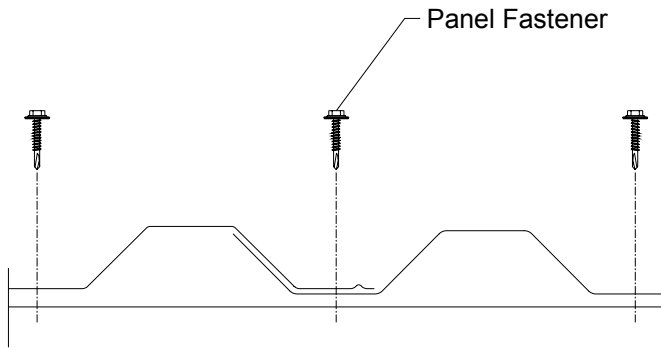
\* uses Tape Sealant and Stitch Screws 1' oc in Side Lap

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# IC72-PANEL WALL

**Condensed  
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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:

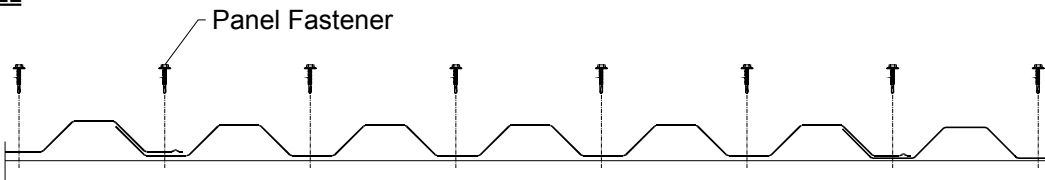
≤12 ga: #12-14 XL Driller

Trim Fasteners:

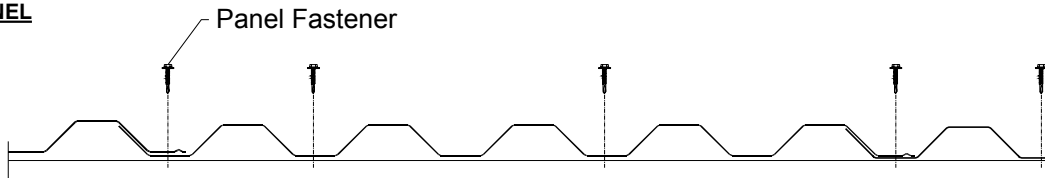
1/4"-14 x 7/8" XL Stitch Screw

## 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	SECTION PROPERTIES				ALLOWABLE UNIFORM LOADS, psf For various fastener spacings											
				Top In Compression		Bottom In Compression		Inward Load					Outward Load						
				I <sub>xx</sub> in <sup>4</sup> /ft	S <sub>xx</sub> in <sup>3</sup> /ft	I <sub>xx</sub> in <sup>4</sup> /ft	S <sub>xx</sub> in <sup>3</sup> /ft	5'	6'	7'	8'	9'	10'	5'	6'	7'	8'	9'	10'
26	36	50	0.88	0.0653	0.0678	0.0667	0.0748	65	46	34	26	21	16	59	42	31	24	19	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	0.1367	0.1562	0.1333	0.1623	148	104	76	54	38	28	143	100	74	54	38	28
20	36	33	1.85	0.1867	0.2227	0.1833	0.2320	140	98	72	55	44	34	135	94	69	53	42	34
18	36	33	2.45	0.2633	0.3230	0.2567	0.3253	196	137	101	78	61	45	195	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'. I<sub>xx</sub> and S<sub>xx</sub> 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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