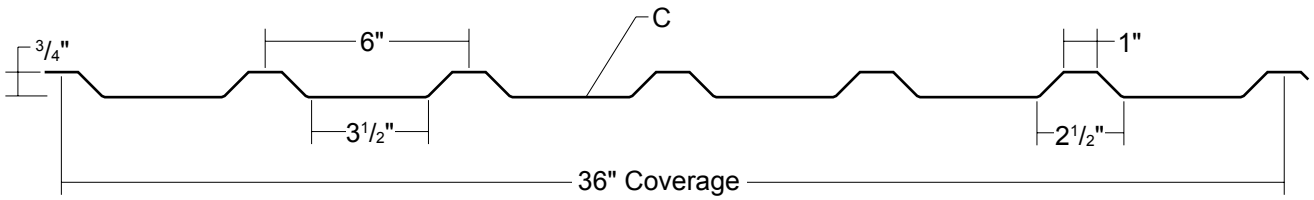
U-PANEL

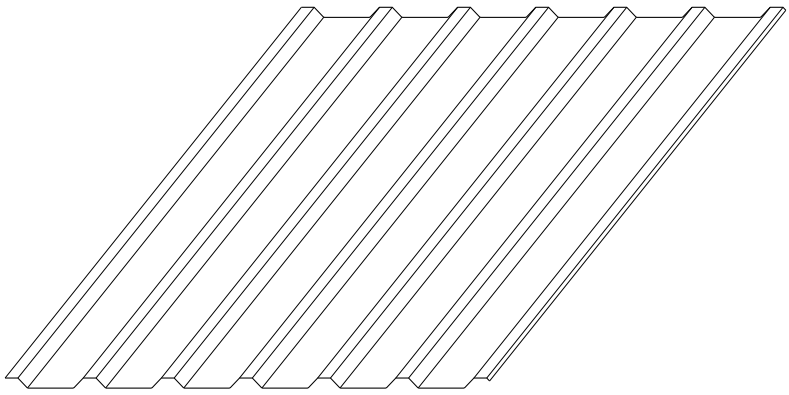
Condensed Technical Reference



COMMERCIAL INDUSTRIAL PANEL | **EXPOSED FASTENED** | **36" COVERAGE** | **WALL PANEL** | **OPEN FRAMING OR SOLID SUBSTRATE**

PANEL OVERVIEW

- Finishes: PVDF, MS Colorfast45® and Acrylic-Coated Galvalume®
- 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: 26 ga and 24 ga standard; 22 ga optional
- 36" panel coverage, 3/4" rib height
- Panel Length: Minimum: 5'; Maximum: 45' recommended
- Exposed fastened metal building roof and wall system
- Trapezoidal rib on 6" centers
- Wall Panel



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
- UL 580 Uplift Resistance - Class 90 Construction: #39
- Texas Windstorm - Evaluation RC-196
- ICC Evaluation Report - ESR-2385

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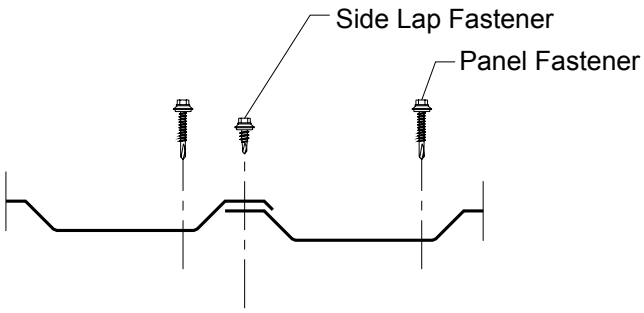
ATTACHMENT DETAIL



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.

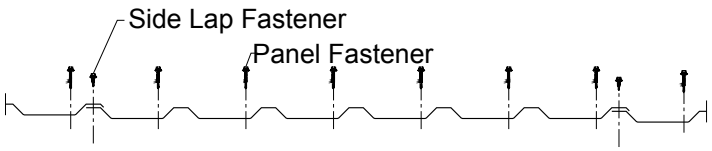
Panel Fastener:
- Attaching to Wood:
  - #10-14 XL Wood Screw
- Attaching to Steel:
  - #12-14 XL Self Drilling Screw

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

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

FASTENING PATTERN

Ends and Field of Panel



SECTION PROPERTIES

ALLOWABLE UNIFORM LIVE 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	2'	3'	4'	5'	6'	7'	2'	3'	4'	5'	6'	7'
26	36	80	0.81	0.0187	0.0349	0.0127	0.0369	245	112	58	30	17	11	234	106	58	30	17	11
24	36	50	1.05	0.0270	0.0517	0.0183	0.0461	259	118	67	40	23	15	288	131	75	40	23	15
22	36	50	1.38	0.0380	0.0736	0.0270	0.0673	375	171	97	54	31	20	406	186	105	54	31	20

1. 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.
2. 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.
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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