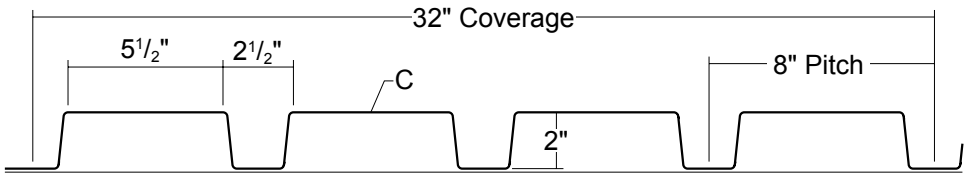
T2832 WALL PANEL

Condensed Technical Reference



ARCHITECTURAL COMMERCIAL INDUSTRIAL PANEL

EXPOSED FASTENED

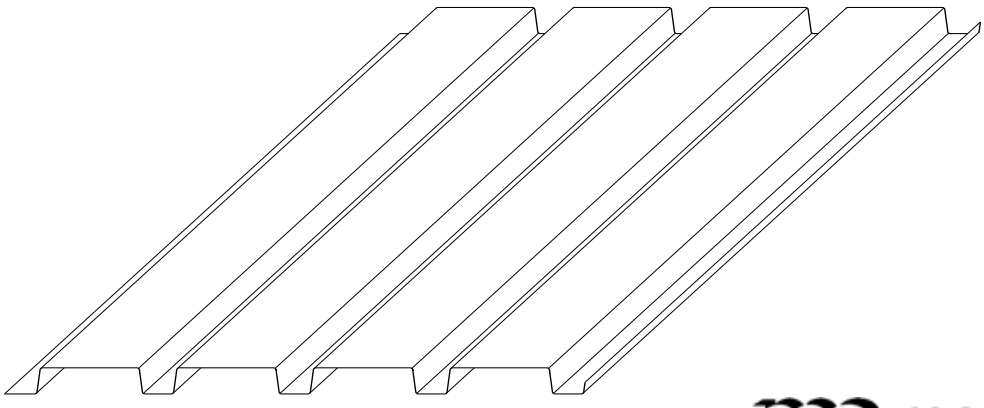
32" COVERAGE

WALL PANEL

OPEN FRAMING OR SOLID SUBSTRATE

PANEL OVERVIEW

- Finishes: Standard: PVDF
  Optional: Multi-pass Kynar®, Marblique, Plastisol, Polyester and 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, 22 ga, 20 ga and 18 ga
- 32" panel coverage, 2" rib height
- Trapezoidal ribs on 8" centers
- Panel Length: 5' minimum, 32' maximum
- Exposed Fastened Panel
- Optional material availablity: Stainless Steel, Copper and Aluminum
- Custom capabilites include:
  - Perforated panels for wind screens and liner panels



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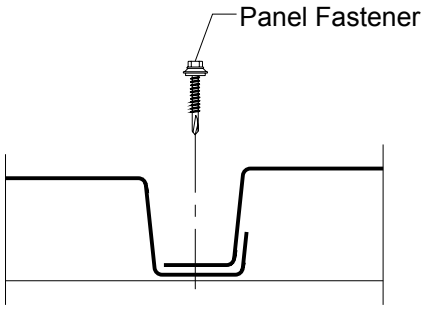
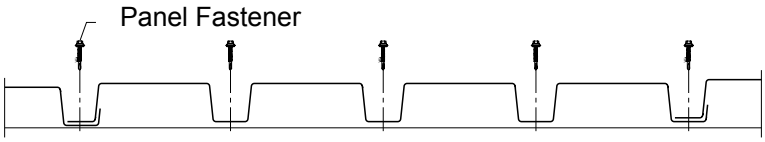
ATTACHMENT DETAIL

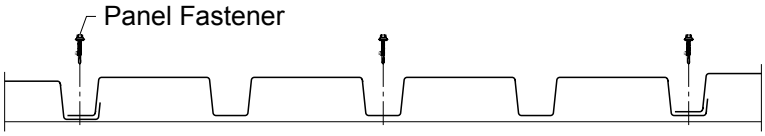


FASTENING PATTERNS

Ends of Panel



Field of Panel



FASTENER INFORMATION

Overdriven fasteners will cause panel distortion.

Panel 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

Trim Fastener:
- 1/8" x 3/16" Pop Rivet
- 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					
				Ixx in^4/ft	Sxx in^3/ft	Ixx in^4/ft	Sxx in^3/ft	5'	6'	7'	8'	10'	12'	5'	6'	7'	8'	10'	12'
24	32	50	1.35	0.1534	0.1320	0.2033	0.1451	131	92	68	52	34	23	120	84	62	48	31	21
22	32	50	1.77	0.2164	0.1935	0.2918	0.2159	197	138	102	78	50	35	177	124	91	70	45	31
20	32	33	2.16	0.3000	0.2877	0.3938	0.3039	182	127	94	72	46	32	172	121	89	69	44	31
18	32	33	2.84	0.4313	0.4166	0.5400	0.4245	252	177	131	101	65	45	248	174	129	99	64	44

1. Theoretical section properties have been calculated per AISI 2012 '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 loads are calculated in accordance with AISI 2012 specifications considering bending, shear, combined bending and shear and deflection. Allowable loads consider the 3 or more equal span condition. Allowable loads do 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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