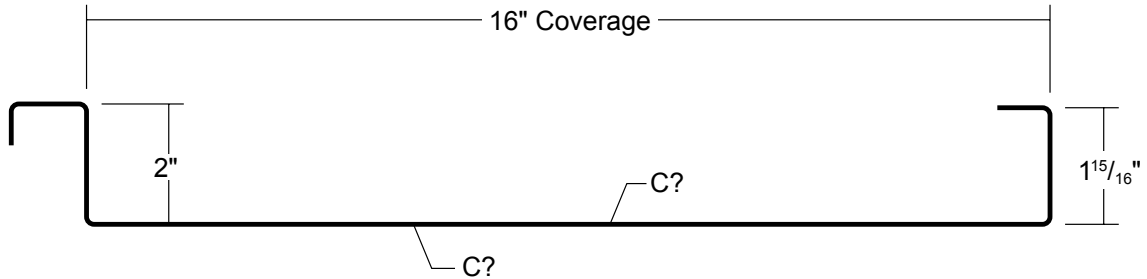


TL-20 PANEL

Condensed
Technical
Reference



NOTE: Either side of panel can be painted, please specify

ARCHITECTURAL
COMMERCIAL
INDUSTRIAL
PANEL

EXPOSED
FASTENED

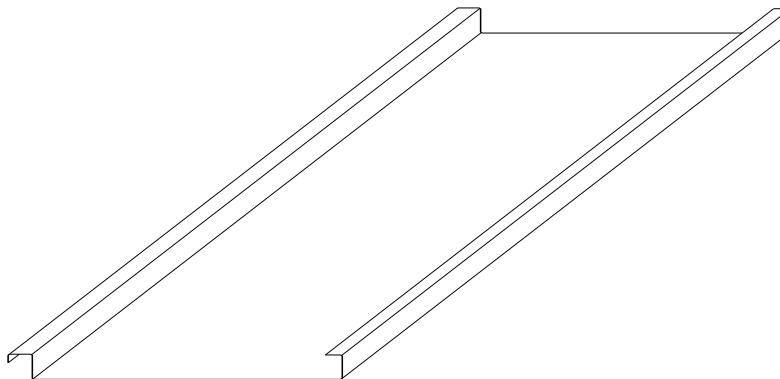
16"
COVERAGE

CUSTOM
CAPABILITIES

OPEN FRAMING OR
SOLID SUBSTRATE

PANEL OVERVIEW

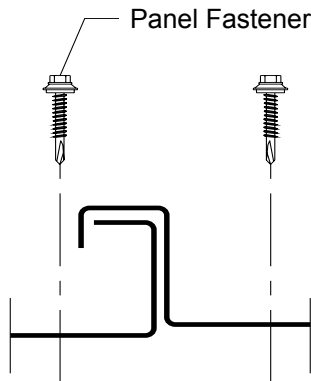
- ▶ Finishes: Standard: PVDF
Optional: Multi-pass Kynar®, Marblique, Plastisol, Polyester and MS Colorfast45®
- ▶ Corrosion Protection: AZ55 per ASTM A 792 for unpainted Galvalume®
AZ50 per ASTM A 792 for painted Galvalume®
G90 per ASTM A 653 for Galvanized
- ▶ Gauges: 24 ga, 22 ga, 20 ga and 18 ga
- ▶ 16" panel coverage, 2" rib height
- ▶ Panel Length: 5' minimum, 32' maximum
- ▶ Exposed Fastened Panel
- ▶ Use on single skin or field-assembled wall system applications
- ▶ Optional material availability: Stainless Steel, Copper and Aluminum
- ▶ Custom capabilities include:
 - Perforated panels for wind screens and liner panels
 - Tapering



TL-20 PANEL

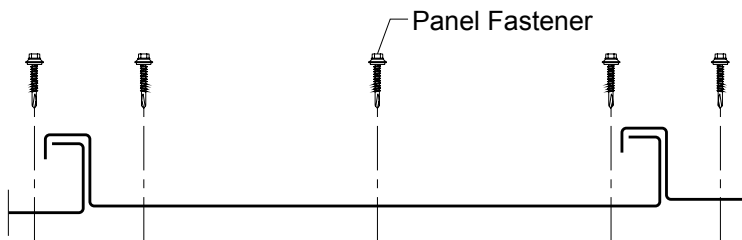
**Condensed
Technical
Reference**

ATTACHMENT DETAIL



FASTENING PATTERN

Ends and 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	4'	5'	6'	7'	8'	9'	4'	5'	6'	7'	8'	9'
24	16	50	1.27	0.1335	0.0788	0.0720	0.0633	89	58	40	30	23	18	108	71	50	37	28	22
22	16	50	1.67	0.1980	0.1203	0.1020	0.0937	133	86	60	44	34	27	167	109	76	56	43	34
20	16	33	2.04	0.2685	0.1661	0.1433	0.1421	131	85	60	44	34	27	151	99	69	51	39	31
18	16	33	2.69	0.3608	0.2252	0.2130	0.1956	180	117	82	61	47	37	204	133	94	69	53	42

- 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.
- 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.
- 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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Anchorage, AK 866.640.7663
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