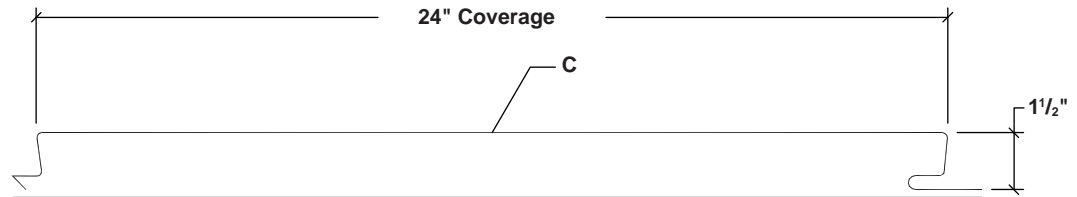


TL18 PANEL



ARCHITECTURAL
COMMERCIAL
INDUSTRIAL
PANEL

CONCEALED
FASTENERS

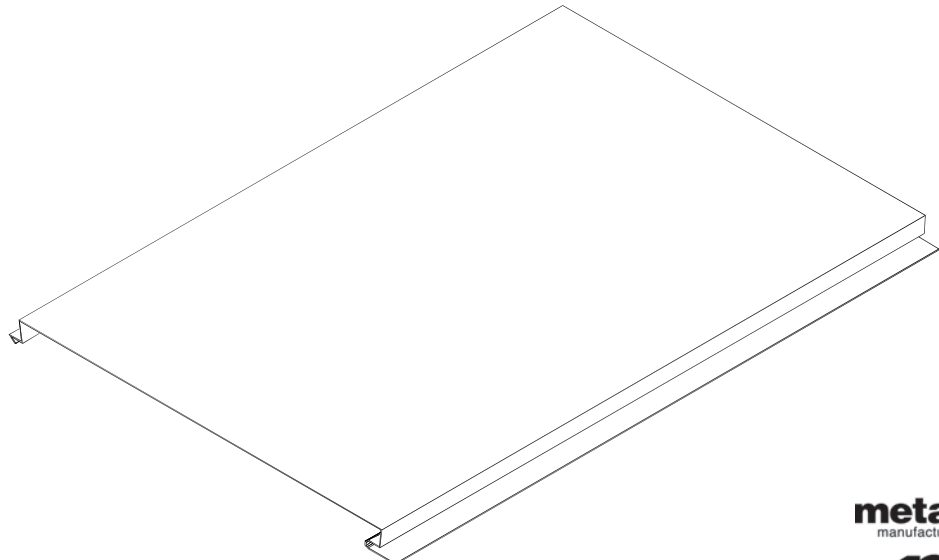
24"
COVERAGE

CUSTOM
CAPABILITIES

OPEN FRAMING OR
SOLID SUBSTRATE

PANEL OVERVIEW

- ▶ Finishes: Kynar 500 (PVDF) standard, optional; multi-pass Kynar, Marblique, Plastisol, Polyester, and MS Colorfast45® (SMP)
- ▶ Gauges: 24g, 22ga, 20ga, and 18ga
- ▶ 24" panel coverage, 1½" height
- ▶ Optional material availability: Stainless Steel, Weathering Steel, Copper, and Aluminum
- ▶ Use on single skin or field-assembled wall system applications
- ▶ Concealed fastened system
- ▶ Custom capabilities include:
 - Perforated panels for wind screens and liner panels
 - Tapering



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MS

TL18 PANEL

GENERAL INFORMATION

► Substructure

TL18 panels are designed to be utilized over open structural framing, or a solid substrate.

► Coverage

TL18 panels are available in a 1 1/2" depth with a 24" width coverage.

► Length

Minimum factory cut length is 5'-0".
Maximum recommended panel length is 34'-0".

► Fasteners

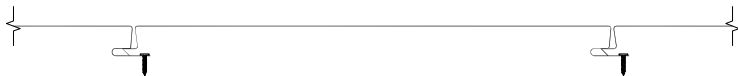
The fastener selection guide should be consulted for choosing the proper fastener for specific applications. Quantity and type of fastener must meet necessary loading and code requirements.

NOTE: All panels are subject to surface distortion due to improperly applied fasteners. Overdriven fasteners will cause stress and induce oil canning across the face of the panel at or near the point of attachment.

► Availability

Finishes: Kynar 500 (PVDF) standard; optional: multi-pass Kynar, Marblique, Plastisol, Polyester, and MS Colorfast45®
Gauges: 24ga, 22ga, 20ga, and 18ga

FASTENING PATTERN



#10-12 x 1" Pancake Head Woodscrew
(wood substrate)
or
*#10-16 x 1" Pancake Head Driller
(steel substrate)

*Pre-drilling into thicker steel may be required.

SECTION PROPERTIES

ALLOWABLE UNIFORM LIVE LOADS PSF (3 or More Equal Spans)

Ga.	Width (in.)	Yield KSI	Weight PSF	Top in Compression		Bottom in Compression		Inward Wind Pressure (Stress / Deflection) Load					
				Ixx In ⁴ /ft	Sxx In ³ /ft	Ixx In ⁴ /ft	Sxx In ³ /ft	2'	3'	4'	5'	6'	8'
				24	24"	50	1.22	0.0260	0.0287	0.0465	0.0340	225	109
22	24"	50	1.59	0.0375	0.0435	0.0640	0.0471	307	149	87	57	40	23
20	24"	33	1.87	0.0515	0.0644	0.0805	0.0595	250	123	72	47	33	19
18	24"	33	2.44	0.0775	0.1062	0.1115	0.0822	337	167	99	65	45	26

- Theoretical section properties have been calculated per AISI 2001 "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 2001 specifications considering bending, shear, combined bending and shear, deflection, and applicable testing when available. Allowable load considers the worst case of 3 and 4 equal span conditions. Allowable load does not address web crippling, panel disengagement, or fasteners/support connection and 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 in uplift.

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