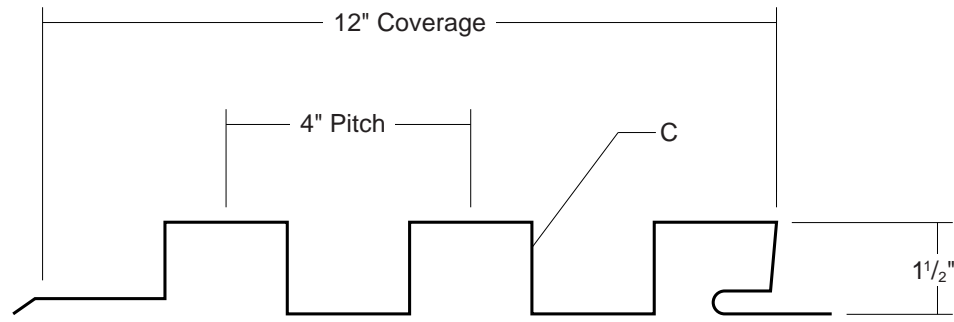


TL-1222 PANEL

CONDENSED
TECHNICAL
REFERENCE

WALL PANEL



ARCHITECTURAL
COMMERCIAL
INDUSTRIAL
PANEL

CONCEALED
FASTENED

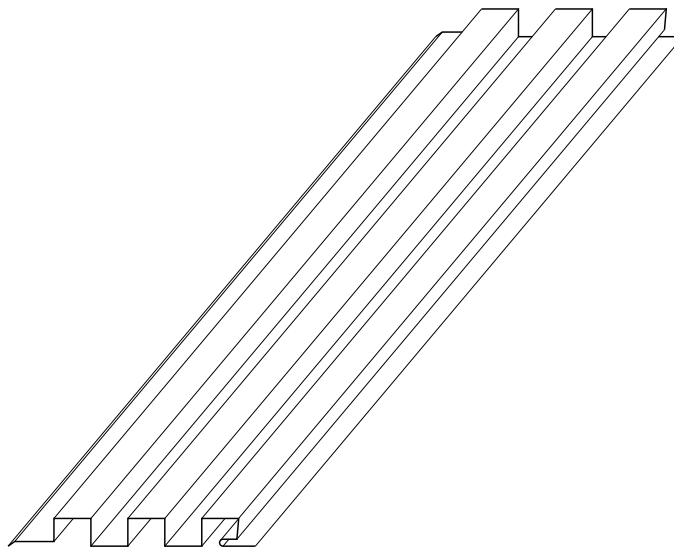
12"
COVERAGE

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
- ▶ 12" panel coverage, 1 1/2" height
- ▶ Optional material availability: Stainless 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



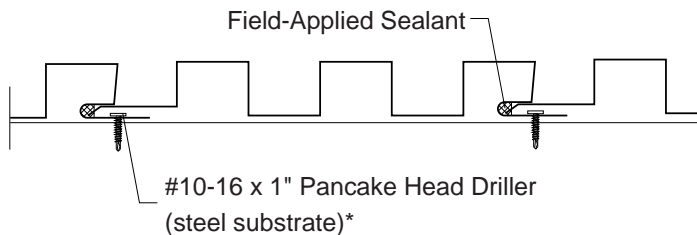
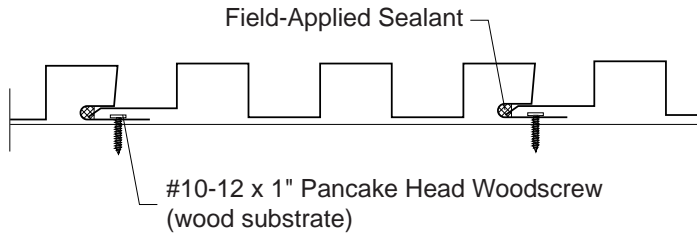
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TL-1222 PANEL

CONDENSED TECHNICAL REFERENCE

FASTENING PATTERNS



*Pre-drilling into thicker steel may be required.

GENERAL INFORMATION

► Substructure

TL-1222 panels are designed to be utilized over open structural framing or a solid substrate.

► Coverage

TL-1222 panels are available in a 1/2" depth with a 12" width coverage.

► Length

Minimum factory cut length is 5'-0".

Maximum recommended panel length is 32'-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® (SMP)

Gauges: 24ga, 22ga, 20ga, and 18ga

SECTION PROPERTIES

ALLOWABLE UNIFORM LOADS PSF (3 or More Equal Spans)

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'		
				2'	3'	4'	5'	6'	8'	2'	3'	4'	5'	6'	8'											
24	12"	50	1.74	0.1448	0.1609	0.1392	0.1593	861	399	228	147	102	58	868	403	230	148	103	58							
22	12"	50	2.30	0.2061	0.2372	0.1957	0.2334	1239	579	332	215	150	77	1256	588	337	218	152	77							
20	12"	33	2.71	0.2680	0.3242	0.2520	0.3177	1081	513	296	192	134	76	1098	522	302	195	137	77							
18	12"	33	3.56	0.3650	0.4512	0.3420	0.4400	1474	705	408	265	185	105	1502	720	417	271	190	108							

- 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. Allowable load considers the worst case of 3 and 4 equal span conditions. Allowable load does not address web crippling, fasteners/support connection, or panel disengagement. 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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