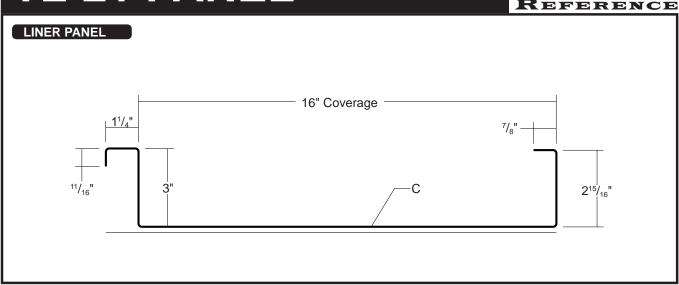
TL-21 PANEL

Condensed Technical Reference



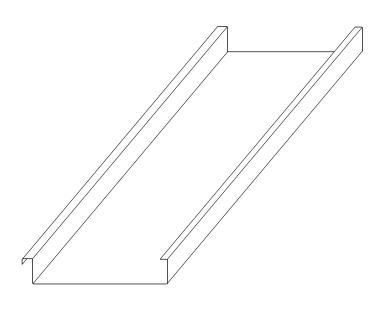
ARCHITECTURAL COMMERCIAL INDUSTRIAL PANEL

DIRECT FASTEN 16" 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: 24ga, 22ga, 20ga, and 18ga
- ▶ 16" panel coverage, 3" rib height
- ▶ Optional material availablity: Stainless Steel, Copper, and Aluminum
- ▶ Use on single skin or field-assembled wall system applications
- Exposed fastened Panel
- Custom capabilites include:
 - Perforated panels for wind screens and liner panels
 - Tapering

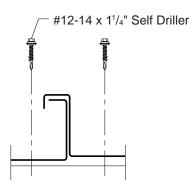


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manufacturing corporation

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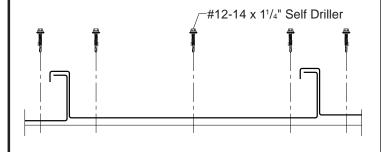
TL-21 PANEL

ATTACHMENT DETAIL



FASTENING PATTERN

Ends and Field of Panel



GENERAL INFORMATION

▶ Substructure

TL-21 Panels are designed to be utilized over open structural framing or a solid substrate.

▶ Coverage

TL-21 Panels are available in a 3" depth with a 16" width coverage.

▶ Length

Minimum factory cut length is 5'-0".

Maximum recommended panel length is 36'-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 LIVE LOADS PSF (3 or More Equal Spans)											
Ga.	Width (in.)	Yield KSI	Weight	Top in Compression		Bottom in Compression		Inward (Gravity / Deflection)					Outward Uplift (Stress)							
			PSF	lxx	Sxx	lxx	Sxx	Load				Load								
				In⁴/ft	In³/ft	In⁴/ft	In³/ft	2'	3'	4′	5'	6'	8'	2'	3'	4′	5'	6'	8'	
24	16"	50	1.38	0.1883	0.1100	0.3158	0.1244	380	219	141	97	71	42	366	206	130	89	64	38	
22	16"	50	1.83	0.2745	0.1691	0.4913	0.2006	781	417	256	171	122	71	718	372	223	148	105	60	
20	16"	33	2.17	0.3615	0.2368	0.6870	0.2924	848	433	258	170	120	69	744	367	215	140	99	56	
18	16"	33	2.86	0.5265	0.3343	0.9263	0.3973	1183	597	354	233	164	94	1060	520	304	199	140	79	

- 1. 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.
- 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.



Kent, WA (800) 431-3470 Temple, TX (800) 543-4415 Longmont, CO (800) 289-7663 Antioch, TN (800) 251-8508 Woodland, CA (800) 759-6019 Rogers, MN (800) 328-9316 Spokane, WA (800) 572-6565 Jefferson, OH (800) 321-5833 Rock Island, IL (800) 747-1206 Sellersburg, IN (800) 999-7777 Jacksonville, FL (800) 394-4419 Orwigsburg, PA (800) 544-2577 Independence, MO (800) 747-0012 Fontana, CA (800) 782-7953 Anchorage, AK (866) 640-7663 Bay City, MI (888) 777-7640 Detroit Lakes, MN (888) 594-1394 Mocksville, NC (800) 228-6119