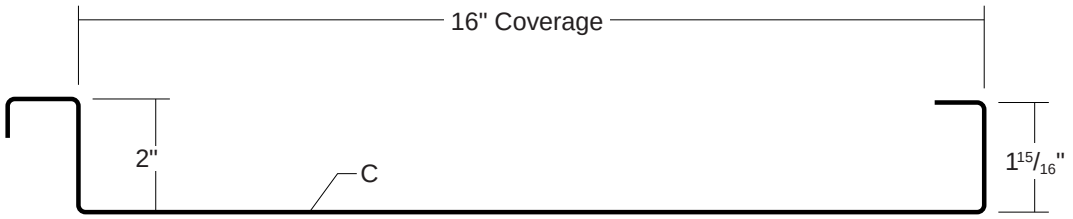
TL-20 PANEL

CONDENSED TECHNICAL REFERENCE

Liner PANEL



ARCHITECTURAL COMMERCIAL INDUSTRIAL PANEL

DIRECT FASTEN

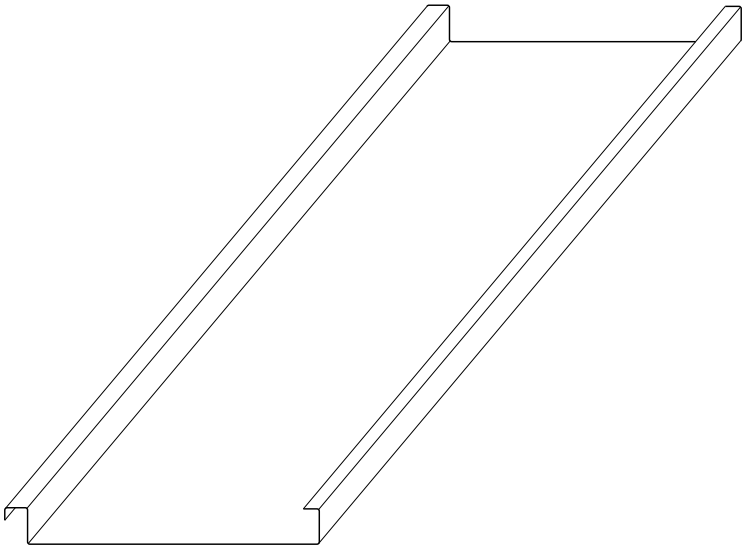
16" COVERAGE

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: 24g, 22ga, 20ga, and 18ga
- 16" panel coverage, 2" 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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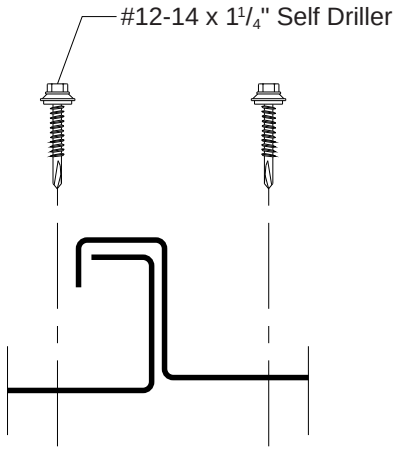
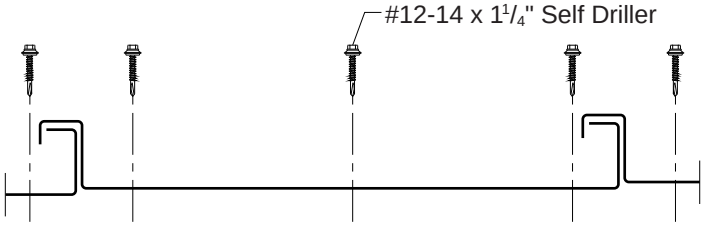
ATTACHMENT DETAIL



FASTENING PATTERN

Ends and Field of Panel



GENERAL INFORMATION

▶ Substructure
TL-20 Panels are designed to be utilized over open structural framing, or a solid substrate.

▶ Coverage
TL-20 Panels are available in a 2" depth with a 16" 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 Wind Pressure Load						Outward Wind Suction Load					
				Ixx In^4/ft	Sxx In^3/ft	Ixx In^4/ft	Sxx In^3/ft	2'	3'	4'	5'	6'	8'	2'	3'	4'	5'	6'	8'
24	16"	50	3.40	0.0720	0.0633	0.1335	0.0788	373	184	108	71	50	28	320	153	89	58	40	23
22	16"	50	1.68	0.1035	0.0951	0.2010	0.1219	601	291	170	110	77	44	497	234	135	87	61	34
20	16"	33	1.99	0.1388	0.1373	0.2610	0.1616	509	251	147	96	67	38	454	218	127	82	58	33
18	16"	33	2.63	0.2055	0.1907	0.3525	0.2198	683	338	199	130	91	52	620	301	175	114	80	45

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.
2. 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.

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