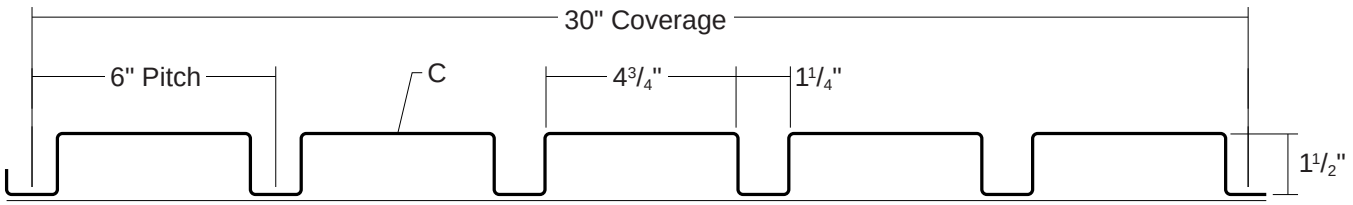
T10-C WALL PANEL

CONDENSED TECHNICAL REFERENCE



ARCHITECTURAL COMMERCIAL INDUSTRIAL PANEL

DIRECT FASTEN

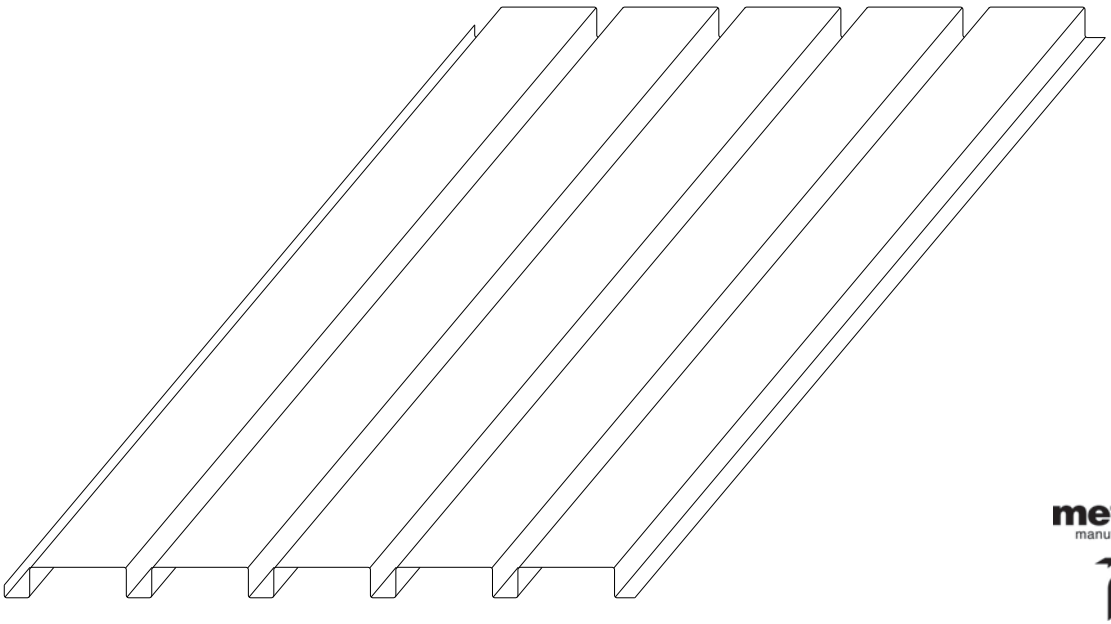
30" COVERAGE

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
- 30" panel coverage, 1 1/2" rib height
- 90° vertical box ribs on 6" centers
- Exposed Fastener Panel
- Optional material availablity: Stainless Steel, Copper, and Aluminum
- Custom capabilites include:
  - Perforated panels for wind screens and liner panels



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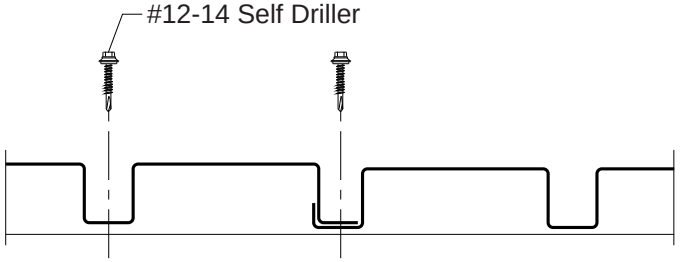
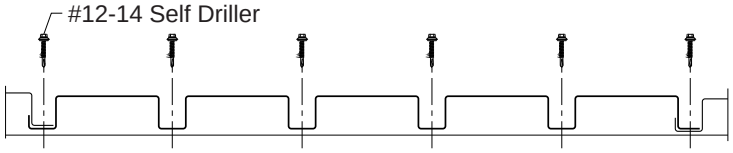
ATTACHMENT DETAIL

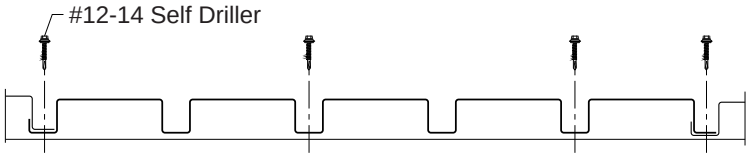


FASTENING PATTERNS

Ends of Panel



Field of Panel



GENERAL INFORMATION

▶ Substructure
T10-C Panels are designed to be utilized over open structural framing or a solid substrate.

▶ Coverage
T10-C Panels are available in a $1^1/_2$" depth with a coverage width of 30".

▶ 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	5'	6'	7'	8'	10'	12'	5'	6'	7'	8'	10'	12'
24	30"	50	1.36	0.0840	0.1075	0.1252	0.1190	110	77	56	43	23	13	99	69	51	39	23	13
22	30"	50	1.80	0.1204	0.1578	0.1752	0.1696	156	109	80	59	30	18	146	101	75	57	30	18
20	30"	33	2.13	0.1640	0.1949	0.2120	0.2058	125	87	64	49	32	21	118	83	61	47	30	21
18	30"	33	2.80	0.2400	0.2606	0.2760	0.2687	163	114	84	64	41	26	158	110	81	62	40	26

1. Theoretical section properties have been calculated per AISI 2001. "Specifications 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 and deflection. Allowable load considers both 3 and 4 equal span conditions. Allowable load does not address web crippling or fasteners/support connection. 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 in uplift.

metal sales manufacturing corporation

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