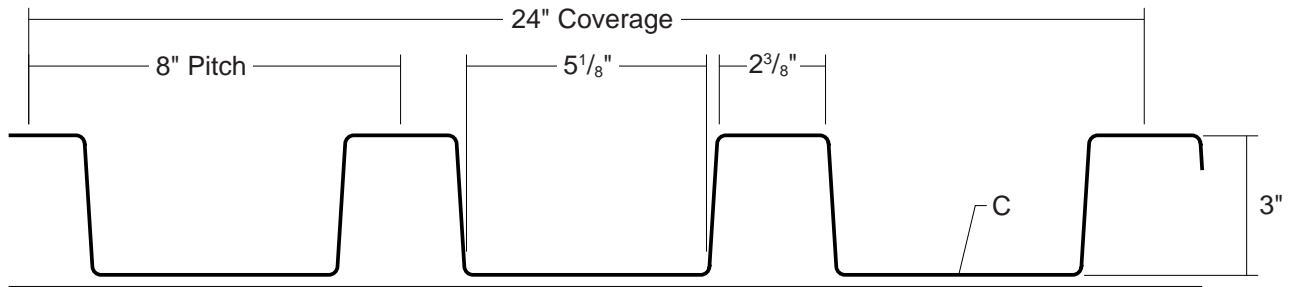


T13 ROOF PANEL

**CONDENSED
TECHNICAL
REFERENCE**



**ARCHITECTURAL
COMMERCIAL
INDUSTRIAL
PANEL**

**DIRECT
FASTEN**

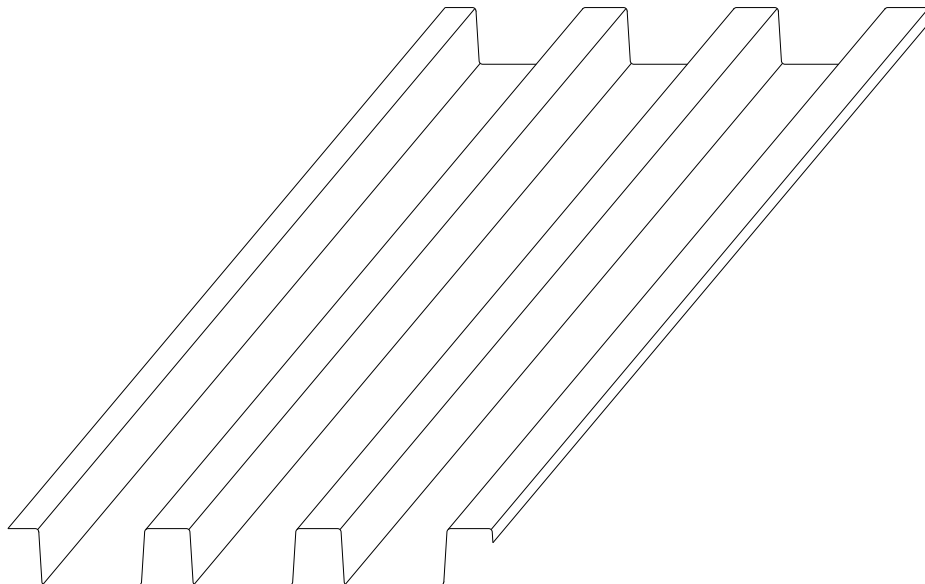
**24"
COVERAGE**

**MINIMUM
SLOPE
1:12**

**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
- ▶ 24" panel coverage, 3" rib height
- ▶ Trapezoidal ribs on 8" centers
- ▶ Exposed Fastener Panel
- ▶ Minimum Roof Slope 1:12 (Tube Sealant is required at sidelap and endlap)
- ▶ Optional material availability: Stainless Steel, Copper, and Aluminum
- ▶ Custom capabilities include:
 - Crimp curving (convex, concave, or "S" curves)

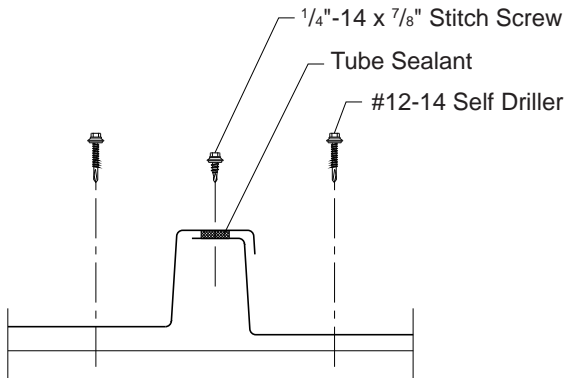


metal sales
manufacturing corporation
ms

T13 ROOF PANEL

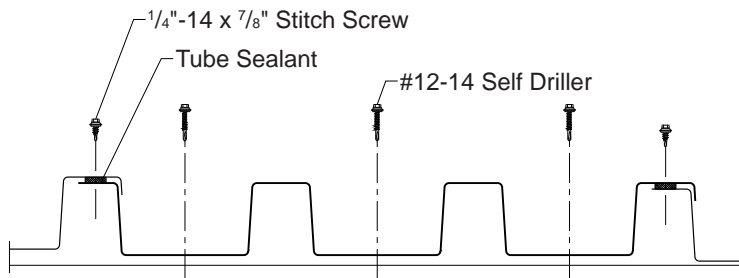
CONDENSED TECHNICAL REFERENCE

ATTACHMENT DETAIL



FASTENING PATTERN

Ends and Field of Panel



GENERAL INFORMATION

► Substructure

T13 Panels are designed to be utilized over open structural framing or a solid substrate.

► Coverage

T13 Panels are available in a 3" depth with a coverage width of 24".

► 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

Ga.	Width (in.)	Yield KSI	Weight PSF	Top in Compression		Bottom in Compression		Inward Load						Outward / Uplift Load					
				Ixx	Sxx	Ixx	Sxx												
				In ⁴ /ft	In ³ /ft	In ⁴ /ft	In ³ /ft	5'	6'	7'	8'	10'	12'	5'	6'	7'	8'	10'	12'
24	24"	50	1.58	0.5010	0.2470	0.4140	0.2306	188	136	102	79	52	36	198	143	108	84	55	39
22	24"	50	2.10	0.7570	0.4006	0.6045	0.3560	312	221	164	127	82	57	346	246	183	142	92	64
20	24"	33	2.48	0.9810	0.5408	0.7890	0.4886	290	204	151	116	75	52	319	224	166	128	82	57
18	24"	33	3.27	1.3635	0.7724	1.1190	0.7259	429	302	223	172	111	77	454	320	237	183	118	82

- 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.
- Allowable load is calculated in accordance with AISI 2001 specifications considering bending, shear, combined bending and shear and deflection. Allowable load considers both 3 or more equal span conditions. Allowable load does not address web crippling or fasteners/support connection. 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.