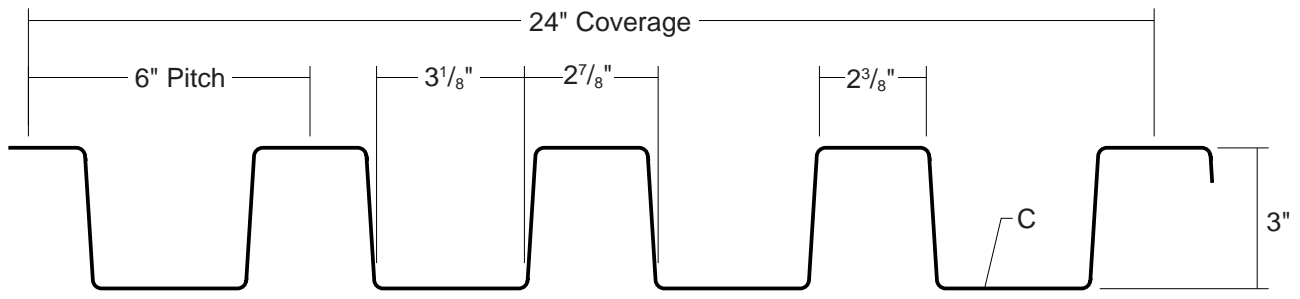


T13-A ROOF PANEL

**CONDENSED
TECHNICAL
REFERENCE**



**ARCHITECTURAL
COMMERCIAL
INDUSTRIAL
PANEL**

**DIRECT
FASTEN**

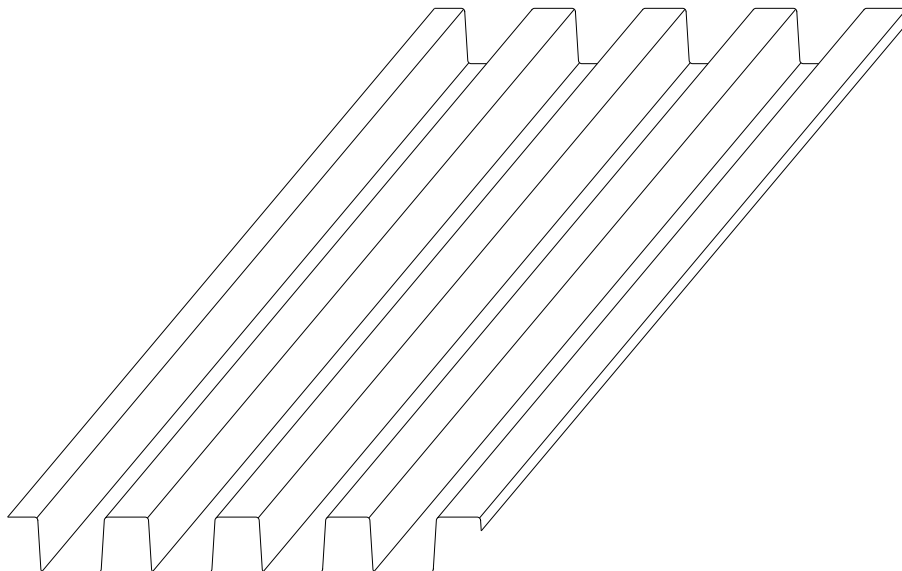
**24"
COVERAGE**

**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 6" 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

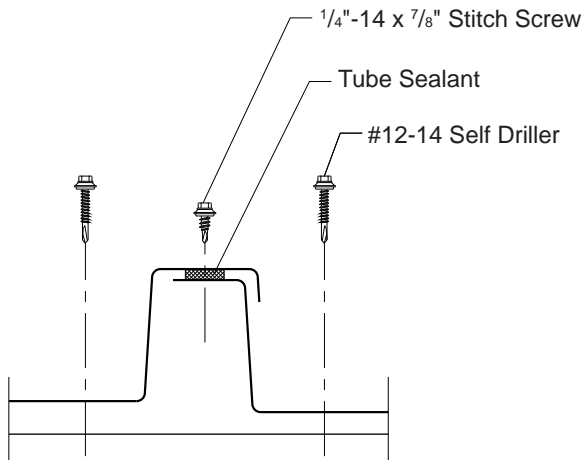


metal sales
manufacturing corporation
ms

T13-A ROOF PANEL

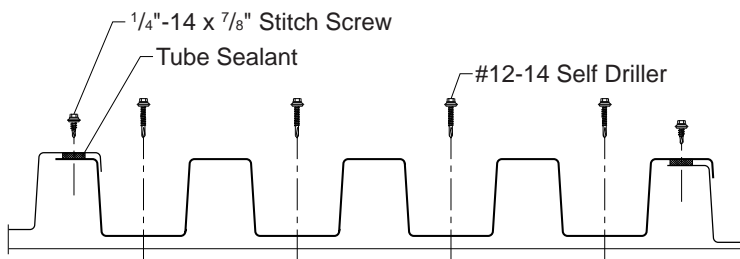
CONDENSED TECHNICAL REFERENCE

ATTACHMENT DETAIL



FASTENING PATTERN

Ends and Field of Panel



GENERAL INFORMATION

► Substructure

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

► Coverage

T13-A 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	Load						Load					
				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	1.78	0.5785	0.3264	0.5390	0.3037	248	179	134	105	68	48	261	189	143	112	73	51
22	24"	50	2.35	0.8325	0.4934	0.7795	0.4620	406	287	213	164	106	74	430	305	227	175	113	79
20	24"	33	2.79	0.0660	0.6587	1.0060	0.6235	371	261	193	148	95	66	391	274	203	156	101	70
18	24"	33	3.67	1.4750	0.9404	1.4100	0.9068	539	378	280	215	138	96	557	392	290	223	144	100

- 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.