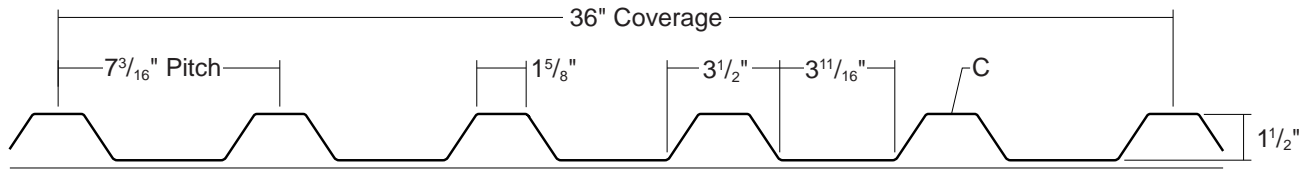


# T6-A ROOF PANEL

**CONDENSED  
TECHNICAL  
REFERENCE**



**ARCHITECTURAL  
COMMERCIAL  
INDUSTRIAL  
PANEL**

**DIRECT  
FASTEN**

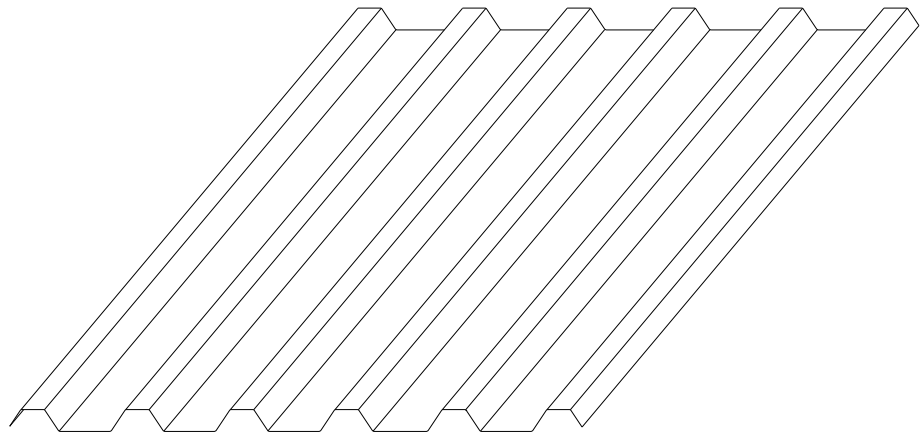
**36"  
COVERAGE**

**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
- ▶ 36" panel coverage,  $1\frac{1}{2}$ " rib height
- ▶ Trapezoidal ribs on  $7\frac{3}{16}$ " centers
- ▶ Exposed Fastener Panel
- ▶ Minimum Roof Slope 1:12 (Tape Sealant is required at sidelap and endlap)
- ▶ Optional material availability: Stainless Steel, Copper, and Aluminum
- ▶ Custom capabilities include:
  - Crimp curving (concave only)



## TESTING

- ▶ ASTM E-331 Water Penetration
- ▶ ASTM E-283 Air Infiltration

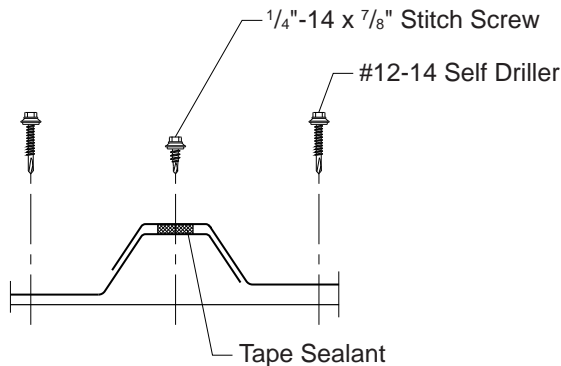
**metal sales**  
manufacturing corporation



# T6-A ROOF PANEL

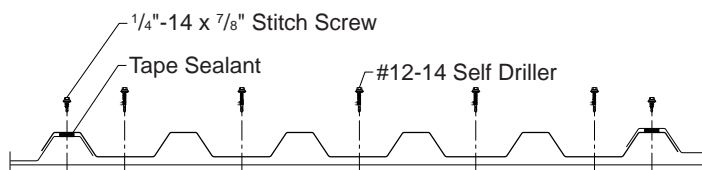
## CONDENSED TECHNICAL REFERENCE

### ATTACHMENT DETAIL

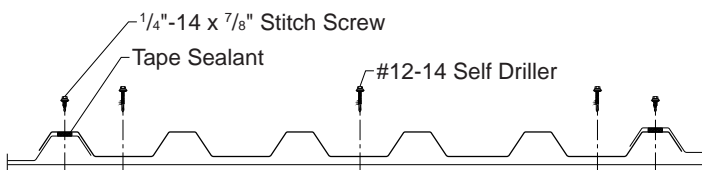


### FASTENING PATTERN

#### Ends of Panel



#### Field of Panel



### GENERAL INFORMATION

#### ► Substructure

T6-A Panels are designed to be utilized over open structural framing or a solid substrate.

#### ► Coverage

T6-A Panels are available in a 1 1/2" depth with a coverage width of 36".

#### ► Length

Minimum factory cut length is 5'-0".

Maximum recommended panel length is 31'-10".

#### ► 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 <sup>4</sup> /ft	In <sup>3</sup> /ft	In <sup>4</sup> /ft	In <sup>3</sup> /ft	5'	6'	7'	8'	10'	12'	5'	6'	7'	8'	10'	12'
24	36"	50	1.21	0.1140	0.1203	0.0870	0.1019	93	65	48	37	23	13	110	77	57	43	23	13
22	36"	50	1.61	0.1633	0.1751	0.1267	0.1534	141	99	73	56	30	17	160	112	83	58	30	17
20	36"	33	1.90	0.2067	0.2340	0.1667	0.2159	130	91	67	52	33	20	141	98	73	56	35	20
18	36"	33	2.51	0.2767	0.3107	0.2400	0.2967	179	125	92	71	45	26	187	131	96	74	46	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.