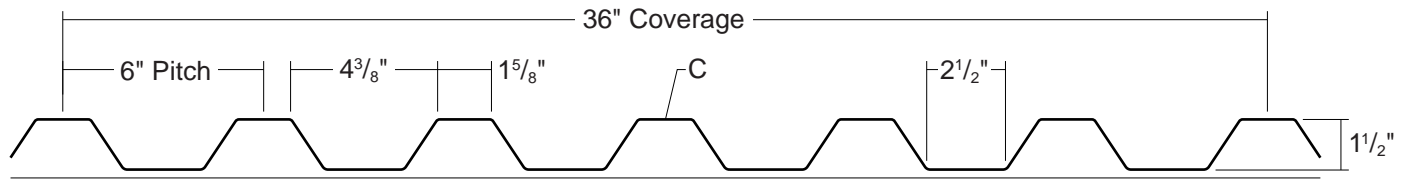


# T5 ROOF PANEL

## CONDENSED TECHNICAL REFERENCE



ARCHITECTURAL  
COMMERCIAL  
INDUSTRIAL  
PANEL

DIRECT  
FASTEN

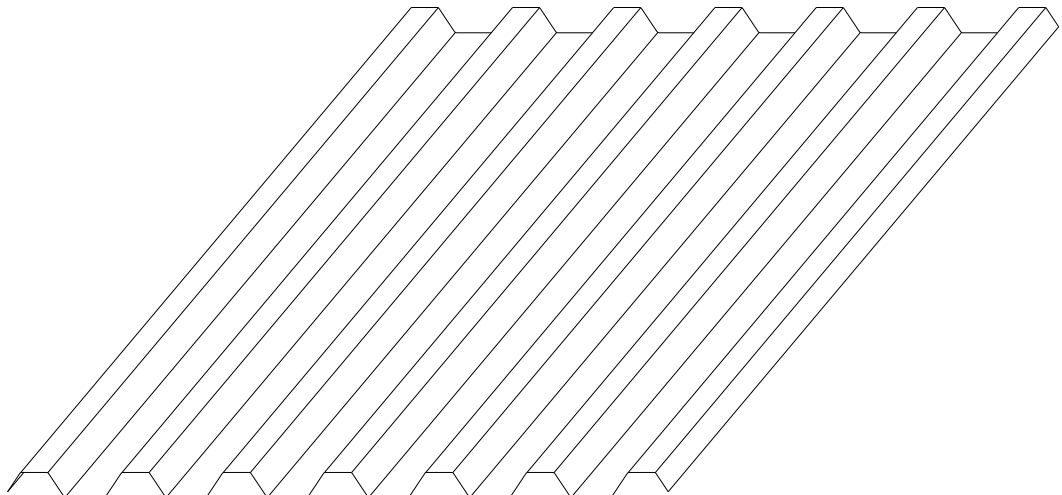
36"  
COVERAGE

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 1/2" rib height
- ▶ Trapezoidal ribs on 6" 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 (convex, concave, or "S" curves)



### TESTING

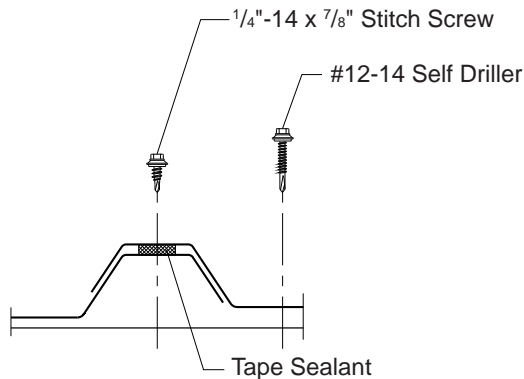
- ▶ ASTM E-331 Water Penetration
- ▶ ASTM E-283 Air Infiltration

**metal sales**  
manufacturing corporation  
**ms**

# T5 ROOF PANEL

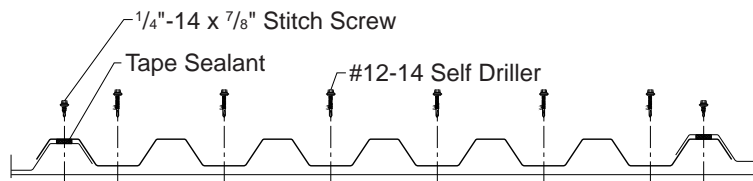
## CONDENSED TECHNICAL REFERENCE

### ATTACHMENT DETAIL

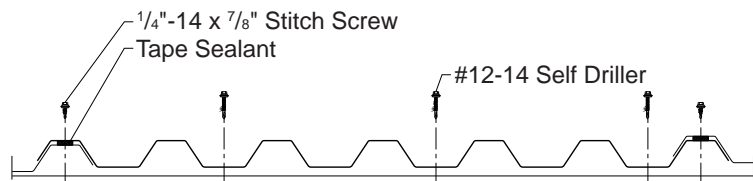


### FASTENING PATTERNS

#### Ends of Panel



#### Field of Panel



### GENERAL INFORMATION

#### ► Substructure

T5 Panels are designed to be utilized over open structural framing or a solid substrate.

#### ► Coverage

T5 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 In <sup>4</sup> /ft	Sxx In <sup>3</sup> /ft	Ixx In <sup>4</sup> /ft	Sxx In <sup>3</sup> /ft												
								5'	6'	7'	8'	10'	12'	5'	6'	7'	8'	10'	12'
24	36"	50	1.25	0.1167	0.1338	0.1033	0.1197	110	77	57	43	23	13	122	85	63	44	23	13
22	36"	50	1.66	0.1633	0.1948	0.1467	0.1784	164	115	84	58	30	17	179	125	87	58	30	17
20	36"	33	1.97	0.2100	0.2607	0.1900	0.2460	149	104	77	59	35	20	157	110	81	62	35	20
18	36"	33	2.59	0.2800	0.3460	0.2700	0.3413	206	144	106	82	46	27	209	146	108	83	46	27

- 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 and 4 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.