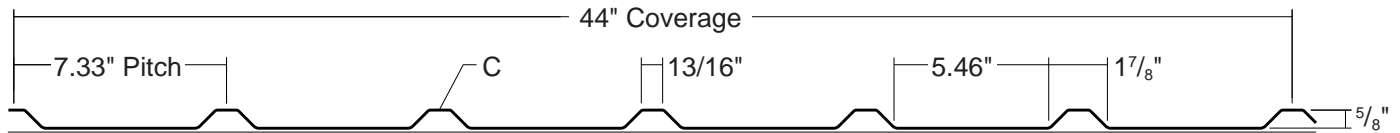


T1 ROOF PANEL

CONDENSED
TECHNICAL
REFERENCE



ARCHITECTURAL
COMMERCIAL
INDUSTRIAL
PANEL

DIRECT
FASTEN

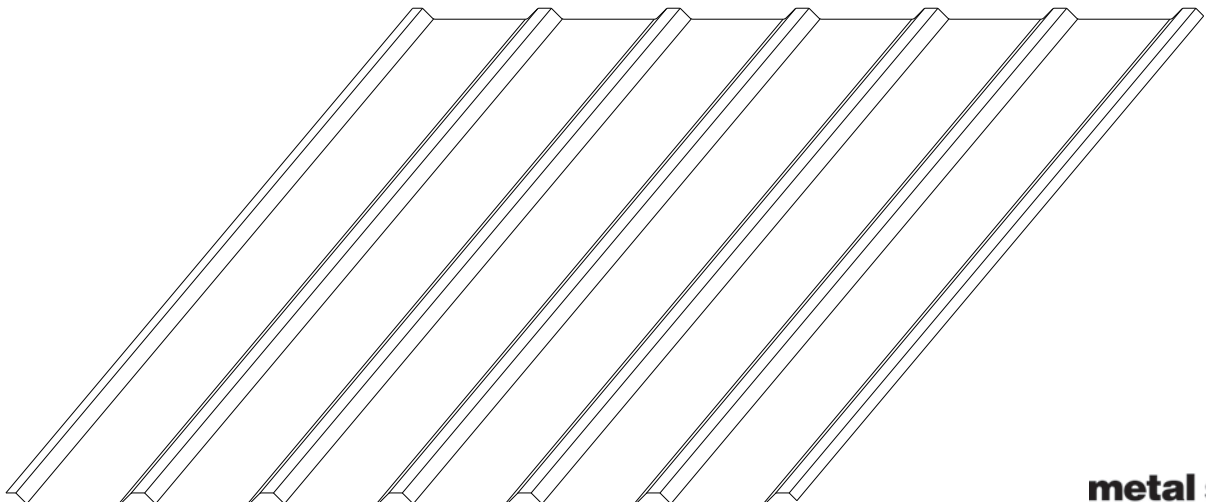
44"
COVERAGE

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
- ▶ 44" panel coverage, 5/8" rib height
- ▶ Trapezoidal ribs on 7.33" 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



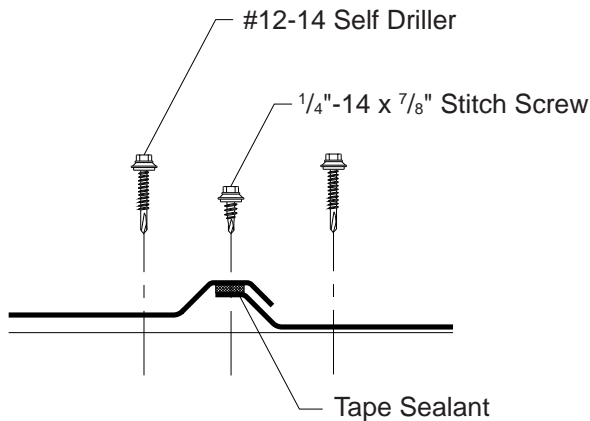
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T1 ROOF PANEL

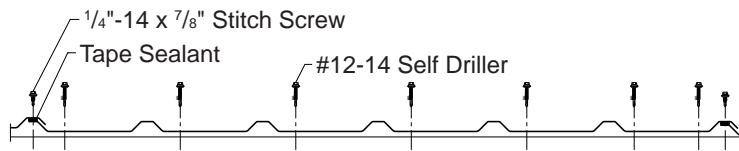
CONDENSED TECHNICAL REFERENCE

ATTACHMENT DETAIL

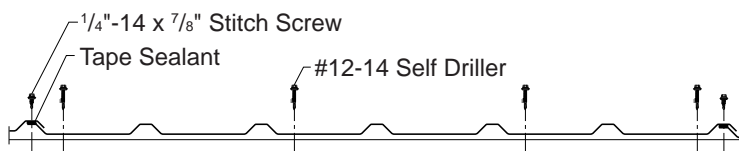


FASTENING PATTERNS

Ends of Panel



Field of Panel



GENERAL INFORMATION

► Substructure

T1 Panels are designed to be utilized over open structural framing or a solid substrate.

► Coverage

T1 Panels are available in a $\frac{5}{8}$ " rib height with a coverage width of 44".

► 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 / Uplift Load					
				Ixx In ⁴ /ft	Sxx In ³ /ft	Ixx In ⁴ /ft	Sxx In ³ /ft	2'	3'	4'	5'	6'	7'	2'	3'	4'	5'	6'	7'
24	44"	50	0.99	0.0139	0.0281	0.0093	0.0263	148	67	35	18	10	7	158	72	35	18	10	7
22	44"	50	1.31	0.0191	0.0375	0.0136	0.0357	201	91	49	25	15	9	210	96	49	25	15	9
20	44"	33	1.56	0.0218	0.0453	0.0191	0.0436	162	73	42	27	17	10	167	76	43	28	17	10
18	44"	33	2.05	0.0300	0.0592	0.0273	0.0578	214	97	55	35	23	14	218	99	56	36	23	14

- 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.

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