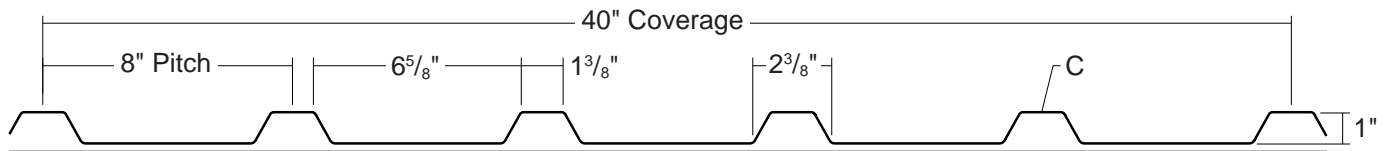


T4 ROOF PANEL

CONDENSED
TECHNICAL
REFERENCE



ARCHITECTURAL
COMMERCIAL
INDUSTRIAL
PANEL

DIRECT
FASTEN

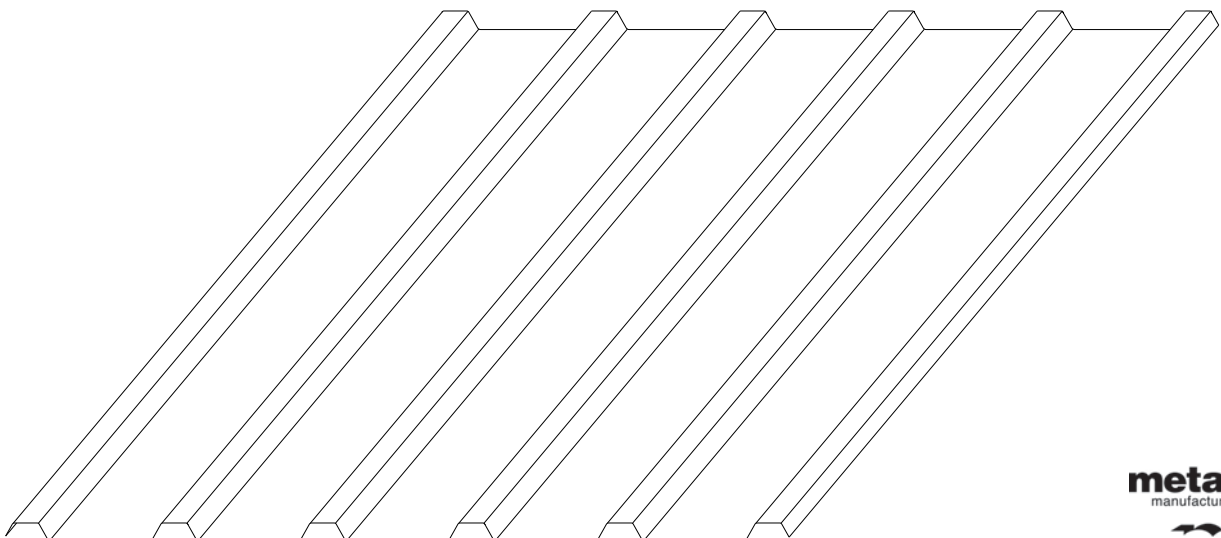
40"
COVERAGE

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
- ▶ 40" panel coverage, 1" rib height
- ▶ Trapezoidal ribs on 8" 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)

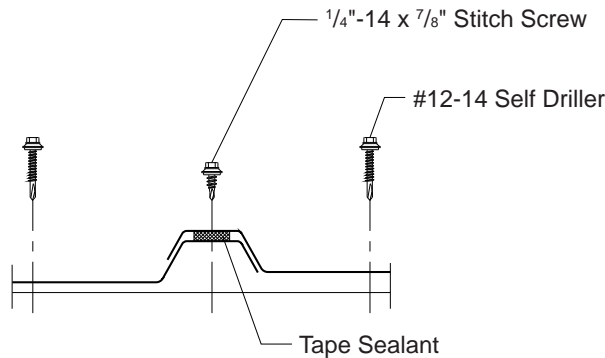


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T4 ROOF PANEL

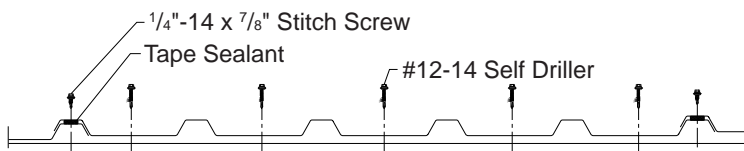
CONDENSED TECHNICAL REFERENCE

ATTACHMENT DETAIL

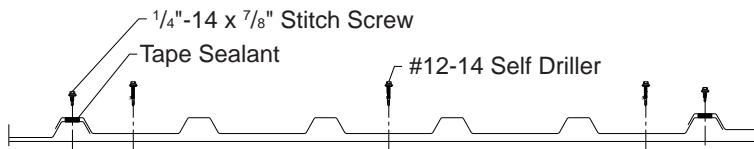


FASTENING PATTERNS

Ends of Panel



Field of Panel



GENERAL INFORMATION

► Substructure

T4 Panels are designed to be utilized over open structural framing, or a solid substrate.

► Coverage

T4 Panels are available in a 1" rib height with a coverage width of 40".

► 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

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	4'	5'	6'	7'	8'	10'	4'	5'	6'	7'	8'	10'
24	40"	50	1.08	0.0444	0.0600	0.0288	0.0519	75	48	33	25	16	8	86	55	39	25	16	8
22	40"	50	1.43	0.0630	0.0862	0.0420	0.0795	114	73	51	33	22	11	123	79	53	33	22	11
20	40"	33	1.70	0.0810	0.1128	0.0570	0.1044	98	63	44	33	25	13	105	68	48	35	26	13
18	40"	33	2.23	0.1050	0.1467	0.0840	0.1395	131	84	59	43	33	17	137	89	62	46	34	17

- 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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