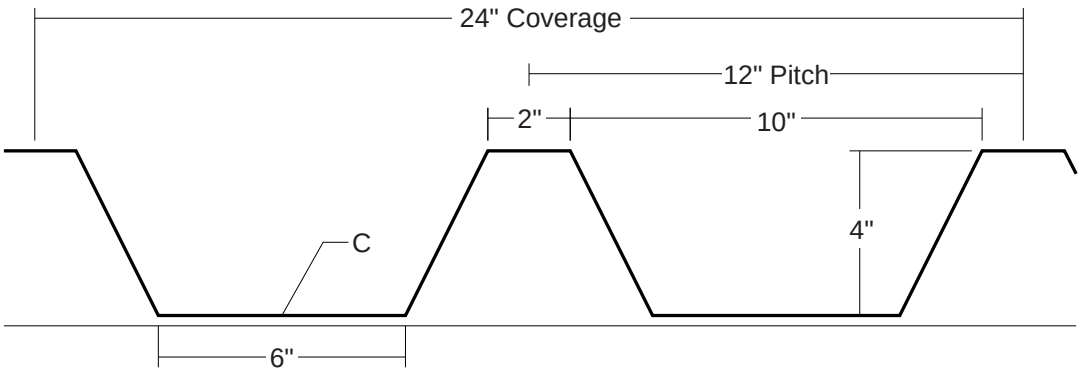
T25 ROOF PANEL

CONDENSED TECHNICAL REFERENCE



ARCHITECTURAL COMMERCIAL INDUSTRIAL PANEL

EXPOSED FASTENED

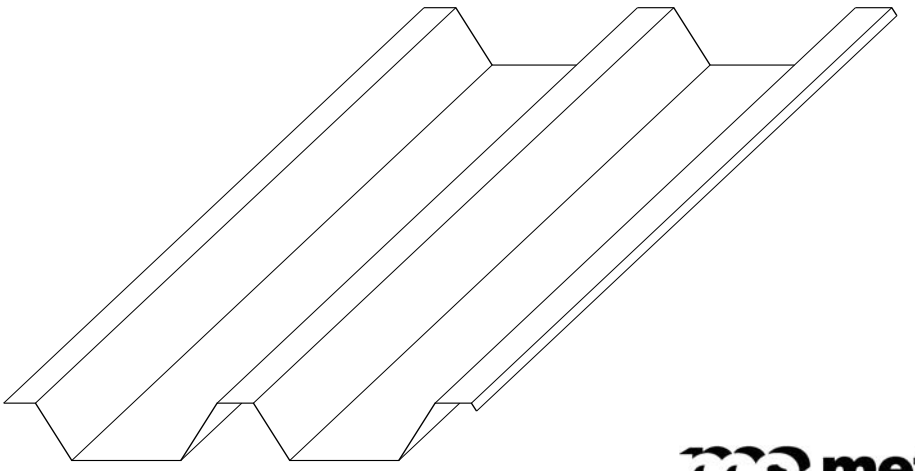
24" COVERAGE

MINIMUM SLOPE 1:12

OPEN FRAMING OR SOLID SUBSTRATE

PANEL OVERVIEW

- Finishes: Standard: PVDF (Kynar 500®)
  Optional: Multi-pass Kynar®, Marblique, Plastisol, Polyester and MS Colorfast45® (SMP)
- Corrosion Protection: AZ55 per ASTM A 792 for unpainted Galvalume®
  AZ50 per ASTM A 792 for painted Galvalume®
  G90 per ASTM A 653 for Galvanized
- Gauges: 24 ga, 22 ga, 20 ga and 18 ga
- 24" panel coverage, 4" rib height
- Trapezoidal ribs on 12" centers
- Panel Length: 5' minimum, 32' maximum
- Exposed Fastened Panel
- Minimum Roof Slope 1:12
- Optional material availablity: Stainless Steel, Copper and Aluminum



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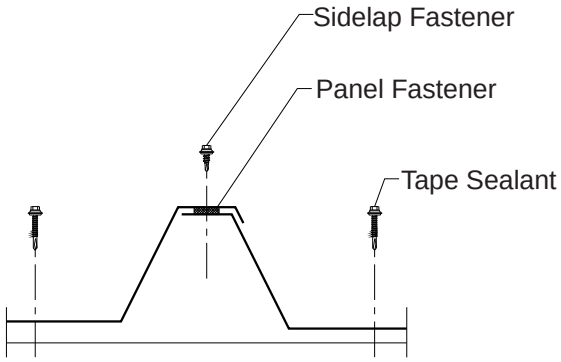
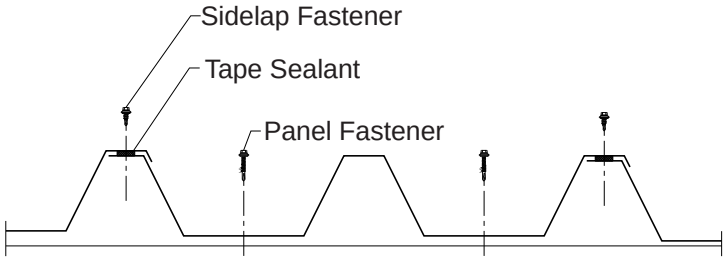
ATTACHMENT DETAIL



FASTENING PATTERNS

Ends and Field of Panel



FASTENER INFORMATION

Overdriven fasteners will cause panel distortion.

Panel fasteners should extend 1/2" or more past the inside face of the support material.

Thick panels (ex. 18 ga) or supports (ex. 1/2" steel) may require predrilling of holes for screws.

Panel Fastener:
- Attaching to Wood:
  - #10-14 XL Wood Screw
- Attaching to Steel:
  - #12-14 XL Self Drilling Screw

Sidelap Fastener:
- 1/4"-14 x 7/8" XL Stitch Screw

Trim Fastener:
- 1/8" x 3/16" Pop Rivet
- 1/4"-14 x 7/8" XL Stitch Screw

SECTION PROPERTIES								ALLOWABLE UNIFORM LOADS, psf For various fastener spacings											
G.	Width in	Yield ksi	Weight psf	Top in Compression		Bottom in Compression		Inward Load						Outward Load					
				Ixx in^4/ft	Sxx in^3/ft	Ixx in^4/ft	Sxx in^3/ft	5'	6'	7'	8'	10'	12'	5'	6'	7'	8'	10'	12'
24	24	50	1.36	0.6465	0.2242	0.5120	0.1991	113	87	69	56	39	28	118	92	74	60	42	31
22	24	50	1.79	0.9750	0.3590	0.7825	0.3308	223	168	130	104	70	50	233	176	137	110	74	53
20	24	33	2.19	1.4680	0.6027	1.1360	0.5302	287	206	155	121	79	55	315	229	173	135	89	62
18	24	33	2.89	2.0155	0.8419	1.6080	0.7792	445	316	235	182	118	82	475	338	253	195	127	89

1. Theoretical section properties have been calculated per AISI 2007 'North American Specification for the Design of Cold-Formed Steel Structural Members'. Ixx and Sxx are effective section properties for deflection and bending.
2. Allowable loads are calculated in accordance with AISI 2007 specifications considering bending, shear, combined bending and shear and deflection. Allowable loads consider the 3 or more equal span condition. Allowable loads do not address web crippling, fasteners, support material or load testing. 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 for wind.

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