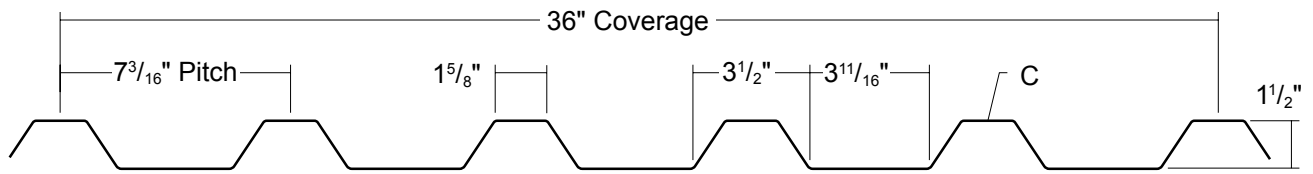


T6-A ROOF PANEL

Condensed
Technical
Reference



ARCHITECTURAL
COMMERCIAL
INDUSTRIAL
PANEL

EXPOSED
FASTENED

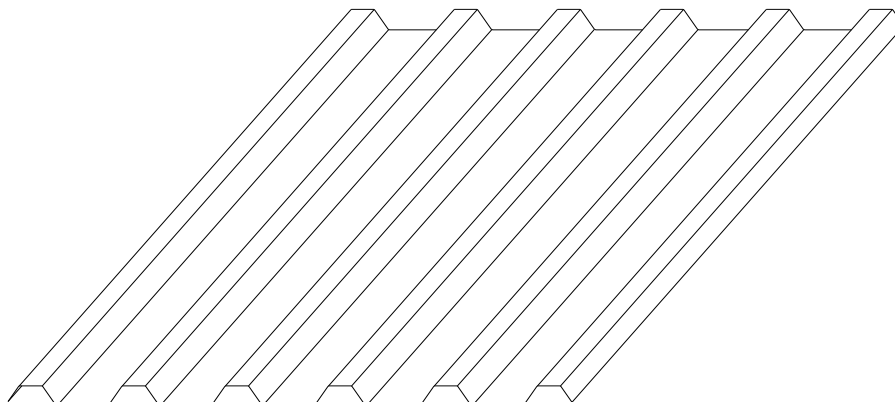
36"
COVERAGE

MINIMUM
SLOPE
1:12

OPEN FRAMING OR
SOLID SUBSTRATE

PANEL OVERVIEW

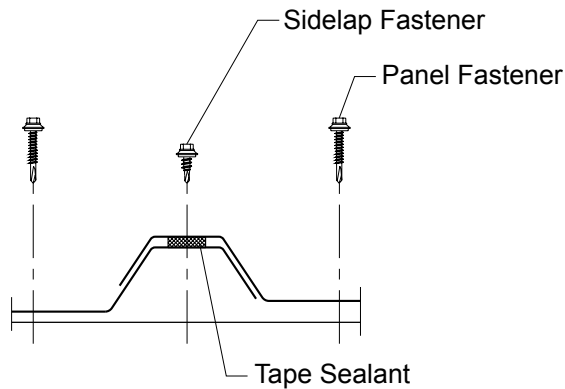
- ▶ Finishes: Standard: PVDF
Optional: Multi-pass Kynar[®], Marblique, Plastisol, Polyester and MS Colorfast45[®]
- ▶ Corrosion Protection: AZ55 per ASTM A 792 for unpainted Galvalume[®]
AZ50 per ASTM A 792 for painted Galvalume[®]
G90 per ASTM A 653 for Galvanized
- ▶ Gauges: 24 ga, 22 ga, 20 ga and 18 ga
- ▶ 36" panel coverage, 1¹/₂" rib height
- ▶ Trapezoidal ribs on 7³/₁₆" centers
- ▶ Panel Length: 5' minimum, 31'-10" maximum
- ▶ Exposed Fastened Panel
- ▶ Minimum Roof Slope 1:12
- ▶ Optional material availability: Stainless Steel, Copper and Aluminum



T6-A ROOF PANEL

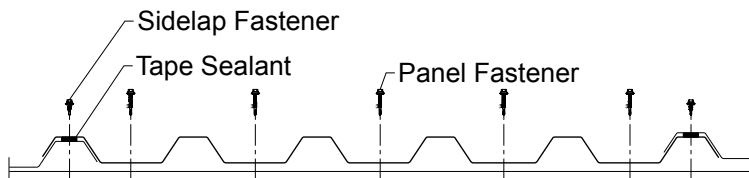
**Condensed
Technical
Reference**

ATTACHMENT DETAIL

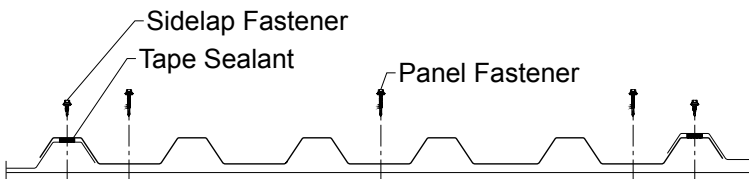


FASTENING PATTERNS

Ends of Panel



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

| Ga | 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' | 9' | 10' | 5' | 6' | 7' | 8' | 9' | 10' |
| | | | | | | | | | | | | | | | | | | | |
| 24 | 36 | 50 | 1.21 | 0.1140 | 0.1203 | 0.0870 | 0.1019 | 93 | 65 | 48 | 37 | 29 | 23 | 110 | 77 | 57 | 43 | 31 | 23 |
| 22 | 36 | 50 | 1.59 | 0.1600 | 0.1727 | 0.1233 | 0.1512 | 139 | 97 | 72 | 55 | 41 | 30 | 158 | 111 | 82 | 58 | 41 | 30 |
| 20 | 36 | 33 | 1.95 | 0.2133 | 0.2407 | 0.1700 | 0.2230 | 135 | 94 | 69 | 53 | 42 | 34 | 145 | 101 | 75 | 57 | 45 | 36 |
| 18 | 36 | 33 | 2.57 | 0.2833 | 0.3177 | 0.2467 | 0.3040 | 183 | 128 | 94 | 73 | 57 | 47 | 191 | 134 | 99 | 76 | 60 | 47 |

- Theoretical section properties have been calculated per AISI 2012 'North American Specification for the Design of Cold-Formed Steel Structural Members'. Ixx and Sxx are effective section properties for deflection and bending.
- Allowable loads are calculated in accordance with AISI 2012 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.
- Deflection consideration is limited by a maximum deflection ratio of L/180 of span.
- Allowable loads do not include a 1/3 stress increase for wind.

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