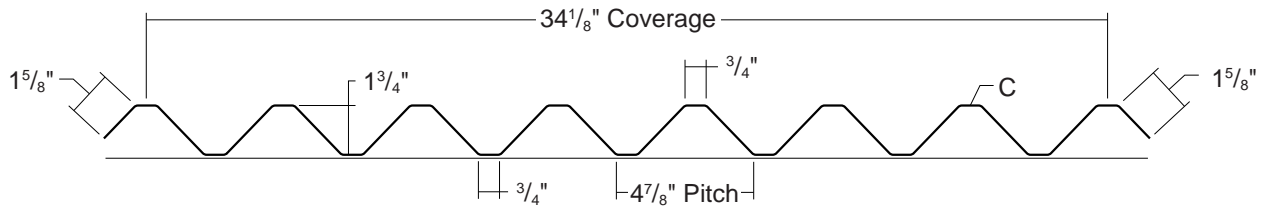


T11-A ROOF PANEL

**CONDENSED
TECHNICAL
REFERENCE**

ROOF PANEL



ARCHITECTURAL
COMMERCIAL
INDUSTRIAL
PANEL

DIRECT
FASTEN

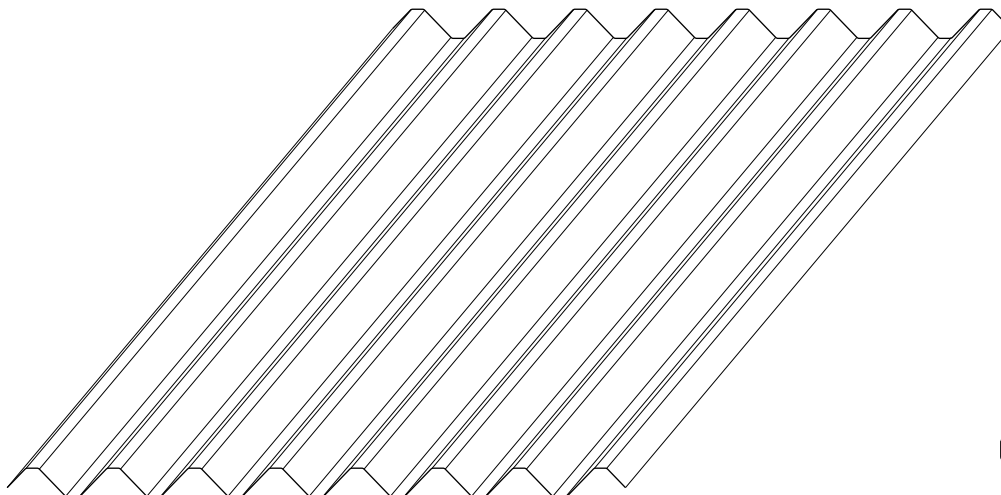
36"
COVERAGE

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
- ▶ $34\frac{1}{8}$ " panel coverage, $1\frac{3}{4}$ " rib height
- ▶ Trapezoidal ribs on 9" centers
- ▶ Exposed Fastener Panel
- ▶ Minimum Roof Slope 1:12
- ▶ Optional material availability: Stainless Steel, Copper, and Aluminum
- ▶ Custom capabilities include:
 - Crimp curving (convex, concave, or "S" curves)

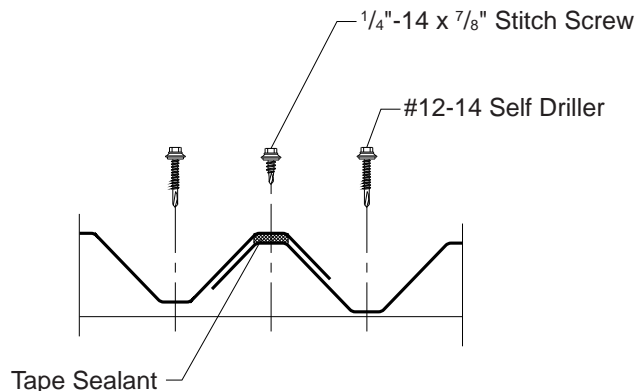


metal sales
manufacturing corporation
ms

T11-A ROOF PANEL

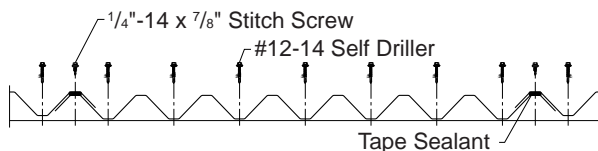
CONDENSED TECHNICAL REFERENCE

ATTACHMENT DETAIL

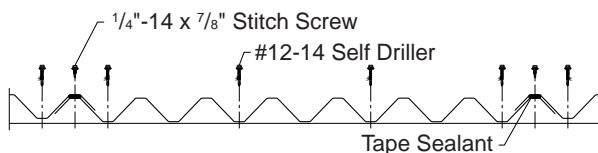


FASTENING PATTERN

Ends of Panel



Field of Panel



GENERAL INFORMATION

► Substructure

T11-A Panels are designed to be utilized over open structural framing or a solid substrate.

► Coverage

T11-A Panels are available in a 1³/₄" depth with a coverage width of 34¹/₈".

► 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 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 | 36" | 50 | 1.18 | 0.1067 | 0.1207 | 0.0713 | 0.0829 | 76 | 53 | 39 | 30 | 19 | 12 | 93 | 65 | 48 | 37 | 21 | 12 |
| 22 | 36" | 50 | 1.56 | 0.1533 | 0.1519 | 0.1033 | 0.1259 | 116 | 81 | 60 | 46 | 28 | 16 | 139 | 97 | 72 | 55 | 28 | 16 |
| 20 | 36" | 33 | 1.85 | 0.1967 | 0.2029 | 0.1367 | 0.1792 | 108 | 75 | 56 | 43 | 27 | 19 | 121 | 85 | 63 | 48 | 31 | 19 |
| 18 | 36" | 33 | 2.43 | 0.2633 | 0.2697 | 0.2033 | 0.2483 | 149 | 104 | 77 | 59 | 38 | 25 | 161 | 113 | 84 | 64 | 41 | 25 |

- Theoretical section properties have been calculated per AISI 2001 "Specification 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, deflection, and applicable testing when available. Allowable load considers the worst case of 3 and 4 equal span conditions. Allowable load does not address web crippling or fasteners/support connection and 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.