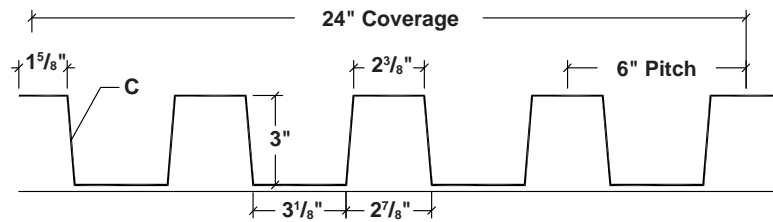
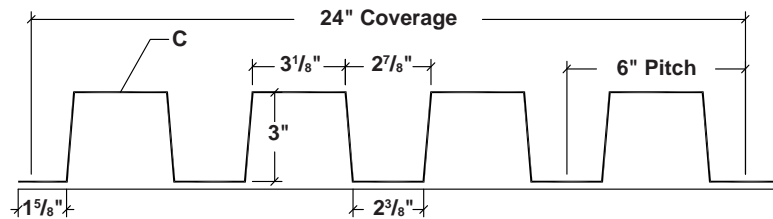


T13A PANEL

ROOF PANEL



WALL PANEL



ARCHITECTURAL
COMMERCIAL
INDUSTRIAL
PANEL

DIRECT FASTENED
(EXPOSED)

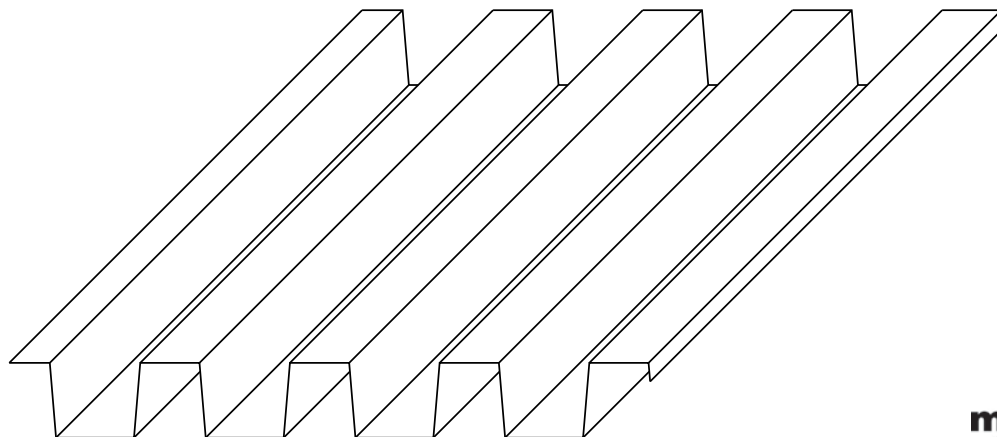
24"
COVERAGE

MINIMUM
1:12 SLOPE

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
- ▶ 24" panel coverage, 3" rib height
- ▶ Trapezoidal ribs on 6" centers
- ▶ Optional material availability: Stainless Steel, Weathering Steel, Copper, and Aluminum
- ▶ Designed for greater span requirements
- ▶ Custom capabilities include:
 - Crimp curving
 - Curving may be convex, concave, or "S" curves
 - Perforated panels for wind screens and liner panels

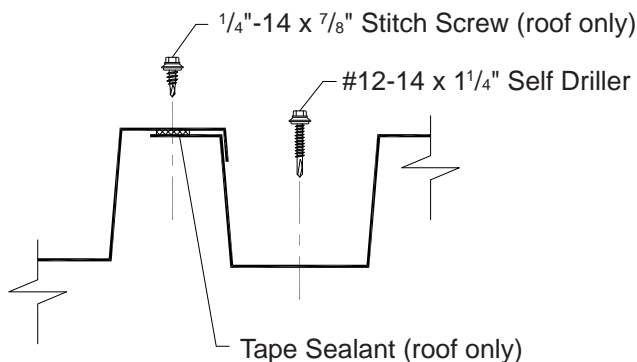


metal sales
manufacturing corporation

MS

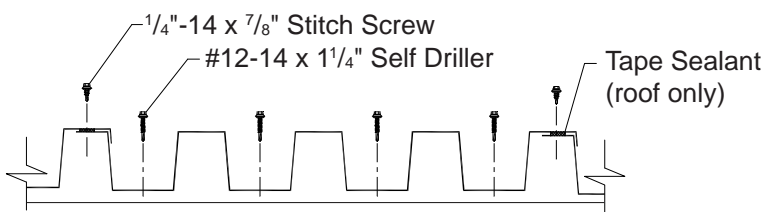
T13A PANEL

ATTACHMENT DETAIL



FASTENING PATTERN

Roof Panel Fastening Pattern (Field and Ends)



GENERAL INFORMATION

► Substructure

T13A panel is designed to be utilized over open structural framing or a solid substrate.

► Coverage

T13A panels are available in a 3" depth with a 24" width coverage.

► Length

Minimum factory cut length is 5'-0"
Maximum recommended panel length is 36'-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 LIVE LOADS PSF (3 or More Equal Spans)

| Ga. | Width (in.) | Yield KSI | Weight PSF | Top in Compression | | Bottom in Compression | | Inward (Gravity / Deflection) Load | | | | | | Outward Uplift (Stress) 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 | 1.83 | 0.5555 | 0.2970 | 0.5195 | 0.2775 | 142 | 111 | 89 | 73 | 52 | 38 | 145 | 114 | 92 | 76 | 54 | 40 |
| 22 | 24" | 50 | 2.39 | 0.8325 | 0.4798 | 0.7830 | 0.4515 | 283 | 216 | 169 | 136 | 92 | 67 | 294 | 223 | 175 | 141 | 97 | 70 |
| 20 | 24" | 33 | 2.87 | 1.0980 | 0.6612 | 1.0385 | 0.6259 | 310 | 228 | 174 | 137 | 90 | 64 | 321 | 237 | 181 | 143 | 95 | 67 |
| 18 | 24" | 33 | 3.80 | 1.5500 | 0.9620 | 1.4750 | 0.9209 | 367 | 281 | 222 | 179 | 122 | 89 | 374 | 288 | 227 | 184 | 126 | 92 |

- 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.



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 Temple, TX (800) 543-4415
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 Spokane, WA (800) 572-6565

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