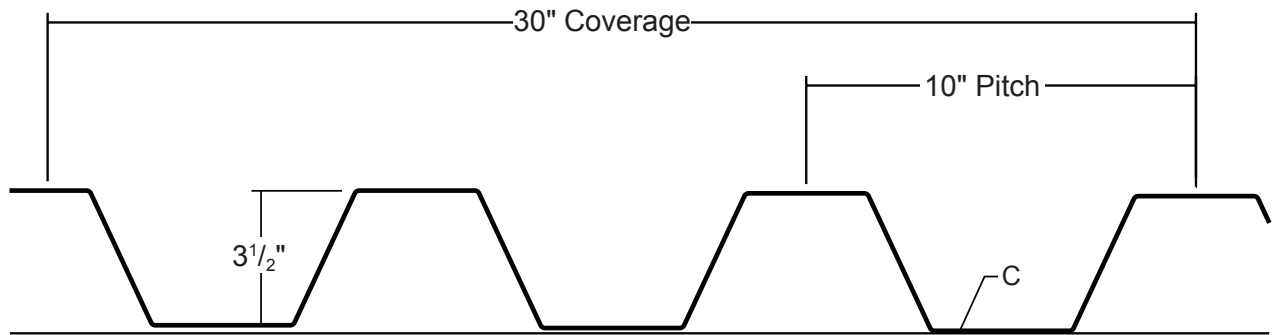


# T14 ROOF PANEL

Condensed  
Technical  
Reference

3" RIB SERIES



ARCHITECTURAL  
COMMERCIAL  
INDUSTRIAL  
PANEL

EXPOSED  
FASTENED

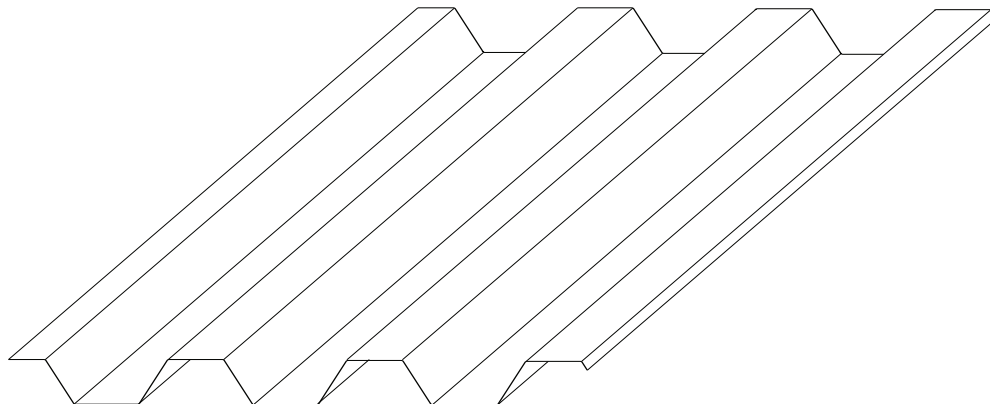
30"  
COVERAGE

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
- ▶ 30" panel coverage, 3 1/2" rib height
- ▶ Trapezoidal ribs on 10" centers
- ▶ Panel Length: 5' minimum, 32' maximum
- ▶ Exposed Fastened Panel
- ▶ Minimum Roof Slope 1:12 (Tube Sealant is required at sidelap and endlap)
- ▶ Optional material availability: Stainless Steel, Copper and Aluminum

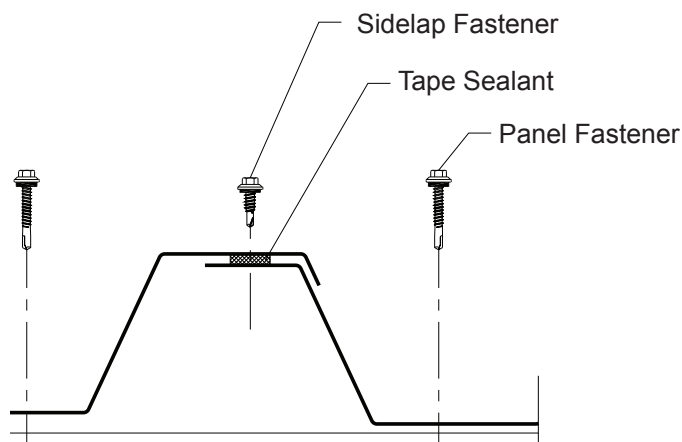


MS Metal Sales™

# T14 ROOF PANEL

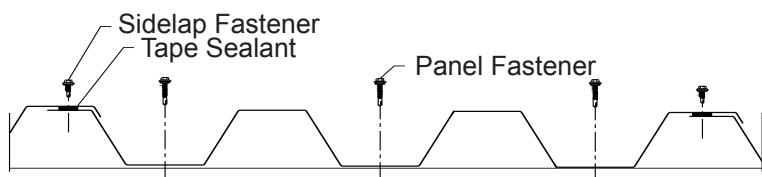
**Condensed  
Technical  
Reference**

## ATTACHMENT DETAIL



## FASTENING PATTERN

### 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 or

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

## SECTION PROPERTIES

## ALLOWABLE UNIFORM LOADS, psf For various fastener spacings

| Ga | Width<br>in | Yield<br>ksi | Weight<br>psf | Top in Compression                     |  | Bottom in Compression                  |  | Inward Load |     |     |     |     |     | Outward Load |     |     |     |     |     |
|----|-------------|--------------|---------------|--|--|--|--|-------------|-----|-----|-----|-----|-----|--------------|-----|-----|-----|-----|-----|
|    |             |              |               | I <sub>xx</sub><br>in <sup>4</sup> /ft | S <sub>xx</sub><br>in <sup>3</sup> /ft | I <sub>xx</sub><br>in <sup>4</sup> /ft | S <sub>xx</sub><br>in <sup>3</sup> /ft | 5'          |     | 6'  |     | 7'  |     | 8'           |     | 10' |     | 12' |     |
|    |             |              |               |  |  |  |  | 5'          | 6'  | 7'  | 8'  | 10' | 12' | 5'           | 6'  | 7'  | 8'  | 10' | 12' |
| 24 | 30          | 50           | 1.37          | 0.4908                                 | 0.2175                                 | 0.4812                                 | 0.2057                                 | 137         | 103 | 80  | 64  | 43  | 31  | 140          | 106 | 83  | 66  | 45  | 32  |
| 22 | 30          | 50           | 1.80          | 0.7504                                 | 0.3622                                 | 0.7336                                 | 0.3390                                 | 257         | 189 | 144 | 113 | 75  | 53  | 269          | 198 | 151 | 119 | 79  | 56  |
| 20 | 30          | 33           | 2.20          | 1.0640                                 | 0.5576                                 | 1.0520                                 | 0.5279                                 | 302         | 214 | 160 | 123 | 80  | 56  | 316          | 225 | 168 | 130 | 84  | 59  |
| 18 | 30          | 33           | 2.91          | 1.4840                                 | 0.8008                                 | 1.4800                                 | 0.7676                                 | 400         | 316 | 235 | 181 | 117 | 81  | 400          | 329 | 244 | 188 | 122 | 85  |

- Theoretical section properties have been calculated per AISI 2016 'North American Specification for the Design of Cold-Formed Steel Structural Members'. I<sub>xx</sub> and S<sub>xx</sub> are effective section properties for deflection and bending.
- Allowable load is calculated in accordance with AISI 2016 specifications considering bending, shear, combined bending and shear and deflection. Allowable load considers the 3 or more equal spans condition. Allowable load does 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.

**MS Metal Sales™**

[metalsales.us.com](http://metalsales.us.com)

Anchorage, AK 866.640.7663  
Bay City, MI 888.777.7640  
Deer Lake, PA 800.544.2577  
Denver, CO 800.289.7663

Detroit Lakes, MN 888.594.1394  
Fontana, CA 800.782.7953  
Fort Smith, AR 877.452.3915  
Independence, MO 800.747.0012

Jacksonville, FL 800.394.4419  
Jefferson, OH 800.321.5833  
Mocksville, NC 800.228.6119  
Nashville, TN 800.251.8508  
Rock Island, IL 800.747.1206  
Rogers, MN 800.328.9316

Seattle, WA 800.431.3470  
Sellersburg, IN 800.999.7777  
Sioux Falls, SD 888.299.0024  
Spokane, WA 800.572.6565  
Temple, TX 800.543.4415  
Woodland, CA 800.759.6019