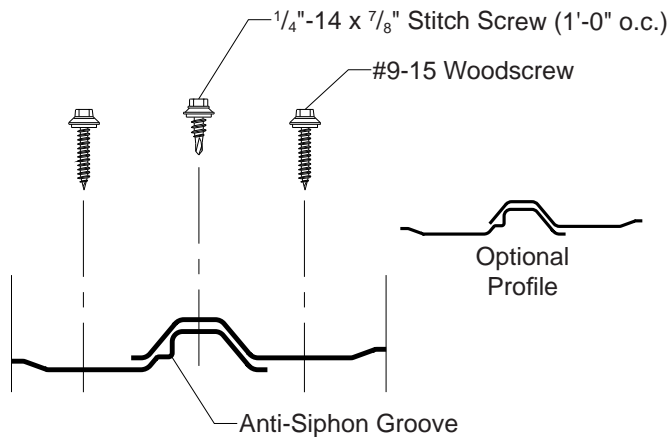


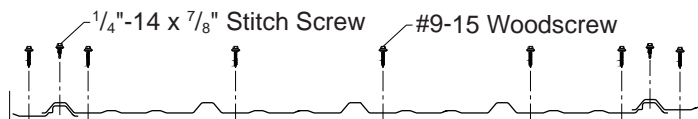
PRO-PANEL II®

CONDENSED TECHNICAL REFERENCE

ATTACHMENT DETAIL



FASTENING PATTERN



GENERAL INFORMATION

► Slope

The minimum recommended slope for Pro-Panel II® roof panel is 3:12.

► Substructure

Pro-Panel II® is designed to be utilized over open structural framing, or a solid substrate. To avoid panel distortion, use a properly aligned and uniform substructure.

► Coverage

Pro-Panel II® panels are available in a 5/8" rib height with a coverage width of 36".

► Length

Minimum factory cut length is 5'-0". Maximum recommended panel length is 45'-0". Longer panels require additional consideration in packaging, shipping, and erection. Please consult Metal Sales for recommendations.

► 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: Acrylic Coated Galvalume® or MS Colorfast45®
Gauges: 26ga and 29ga standard

SECTION PROPERTIES

| Ga. | Width (in.) | Yield KSI | Weight PSF | Top in Compression | | Bottom in Compression | | Inward Load | | | | | | Outward Load | | | | | |
|-----|----------------|--------------|---------------|---------------------|---------------------|-----------------------|---------------------|-------------|------|----|------|----|----|--------------|------|----|------|----|----|
| | | | | Ixx | Sxx | Ixx | Sxx | | | | | | | | | | | | |
| | | | | In ⁴ /ft | In ³ /ft | In ⁴ /ft | In ³ /ft | 2' | 2.5' | 3' | 3.5' | 4' | 5' | 2' | 2.5' | 3' | 3.5' | 4' | 5' |
| 29 | 36" | 80 | 0.71 | 0.0067 | 0.0134 | 0.0047 | 0.0133 | 90 | 58 | 41 | 27 | 18 | 9 | 90 | 59 | 41 | 27 | 18 | 9 |
| 26 | 36" | 80 | 0.87 | 0.0090 | 0.0181 | 0.0063 | 0.0170 | 115 | 75 | 52 | 35 | 23 | 12 | 122 | 79 | 55 | 35 | 23 | 12 |

- 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 and deflection. Allowable load considers the worst case of 3 or 4 equal span conditions. Allowable load does not address web crippling or fastener/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.
- Diaphragm 306 plf average Ultimate Shear Strength using the above fastening pattern on 2x supports located 2' on center per ASTM E455-04

metal sales
manufacturing corporation



Kent, WA 800.431.3470
Temple, TX 800.543.4415
Longmont, CO 800.289.7663
Antioch, TN 800.251.8508
Woodland, CA 800.759.6019
Rogers, MN 800.3289316
Spokane, WA 800.572.6565

Jefferson, OH 800.321.5833
Rock Island, IL 800.747.1206
Sellersburg, IN 800.999.7777
Jacksonville, FL 800.394.4419
Orwigsburg, PA 800.544.2577
Independence, MO 800.747.0012
Fontana, CA 800.782.7953

Anchorage, AK 866.640.7663
Bay City, MI 888.777.7640
Detroit Lakes, MN 888.594.1394
Mocksville, NC 800.228.6119
Fort Smith, AR 877.452.3915

www.metalsales.us.com