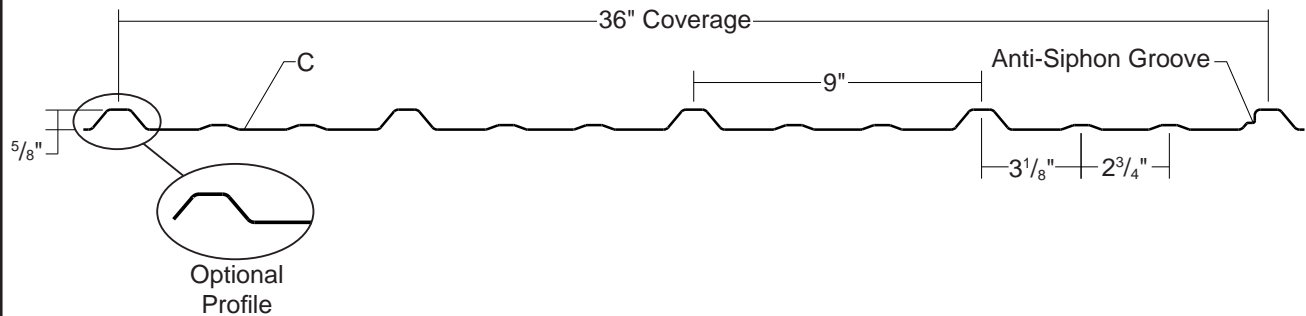


PRO-PANEL II®

**CONDENSED
TECHNICAL
REFERENCE**



**ARCHITECTURAL
COMMERCIAL
PANEL**

**DIRECT
FASTENED**

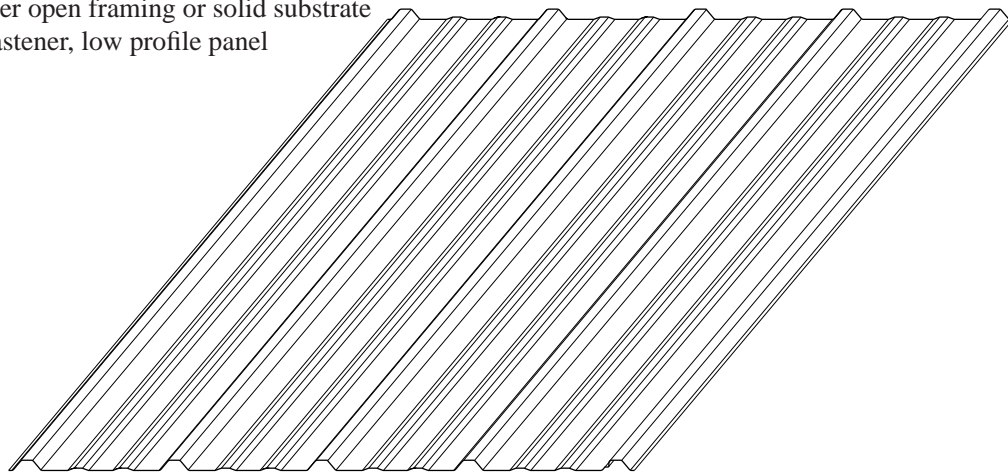
**36"
COVERAGE**

**MINIMUM
SLOPE
3:12**

**OPEN FRAMING OR
SOLID SUBSTRATE**

PANEL OVERVIEW

- ▶ Finishes: MS Colorfast45® and Acrylic Coated Galvalume®
- ▶ Substrates:
 - Acrylic Coated Galvalume® - AZ55 per ASTM A792
 - MS Colorfast45® - AZ50 per ASTM A792 or G60, G90, G100 per ASTM A653
- ▶ Gauges: 26ga and 29ga standard
- ▶ 36" panel coverage, 5/8" rib height
- ▶ Trapezoidal ribs on 9" centers
- ▶ Applies over open framing or solid substrate
- ▶ Exposed fastener, low profile panel



TESTING

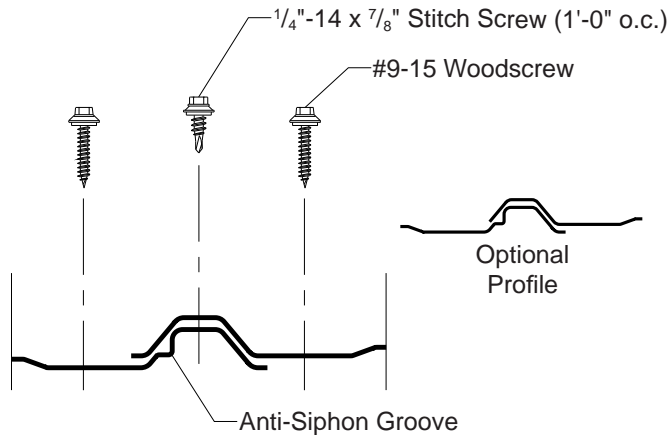
- ▶ UL 2218, Class 4 Impact Resistance
- ▶ UL 790, Class A Fire Resistance Rating
- ▶ 2007 Florida Approval #8131.3
- ▶ ASTM E 455-04, Diaphragm Capacity
- ▶ ASTM E 283/331 Air and Water Leakage

ms metal sales
manufacturing corporation

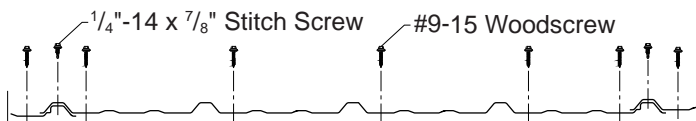
PRO-PANEL II®

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

ALLOWABLE UNIFORM LOADS PSF (3 or More Equal Spans)

Ga.	Width (in.)	Yield KSI	Weight PSF	Top in Compression				Bottom in Compression				Inward Load					Outward Load				
				lxx In ² /ft		Sxx In ³ /ft		lxx In ² /ft		Sxx 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." lxx 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

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