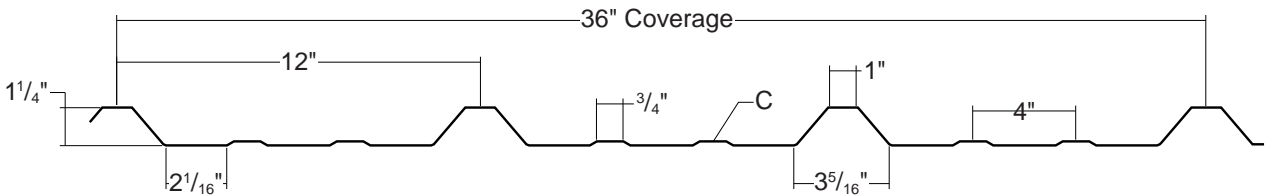


R-PANEL

CONDENSED
TECHNICAL
REFERENCE



ARCHITECTURAL
COMMERCIAL
INDUSTRIAL
PANEL

DIRECT
FASTEN

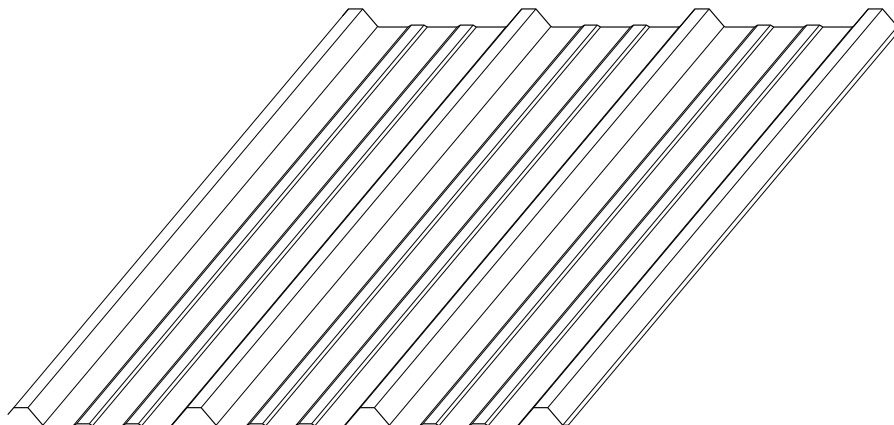
36"
COVERAGE

WALL
PANEL

OPEN FRAMING OR
SOLID SUBSTRATE

PANEL OVERVIEW

- ▶ Finishes: Kynar 500 (PVDF), MS Colorfast45®, and Acrylic Coated Galvalume®
- ▶ Gauges: 26ga and 24ga standard, 22ga optional
- ▶ 36" panel coverage, 1 1/4" rib height
- ▶ Applies over open framing or solid substrate
- ▶ Exposed fastened metal building panel
- ▶ Trapezoidal rib on 12" centers
- ▶ Wall panel



TESTING

- ▶ UL 2218, Class 4 Impact Resistance
- ▶ UL 790, Class A Fire Resistance Rating
- ▶ Florida Building Code Approved 7231.1

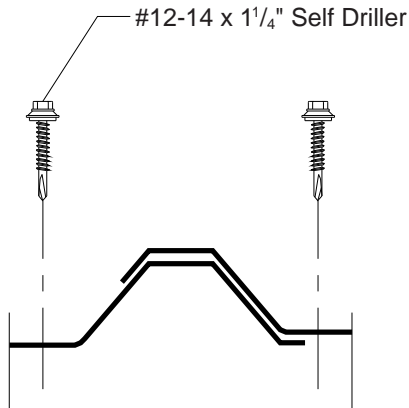
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R-PANEL

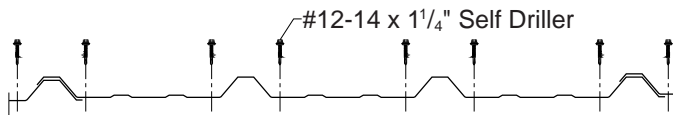
CONDENSED TECHNICAL REFERENCE

ATTACHMENT DETAIL

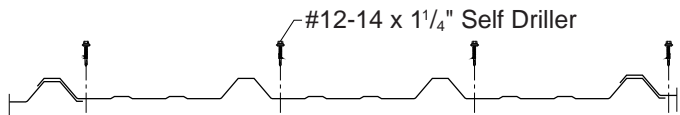


FASTENING PATTERNS

End of Panel



Field of Panel



GENERAL INFORMATION

► Substructure

R-Panel is designed to be utilized over open structural framing but can easily be used with a solid substrate. To avoid panel distortion use a properly aligned and uniform substructure.

► Coverage

R-Panels are available in a 1 1/4" 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®, MS Colorfast45®, or various Kynar 500 (PVDF) colors.
Gauges: 26ga and 24ga standard, 22ga optional

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											
				Ixx In ² /ft		Sxx In ³ /ft		Ixx In ² /ft		Sxx In ³ /ft		2'			3'			4'			5'			6'			7'		
				2'	3'	4'	5'	6'	7'	2'	3'	4'	5'	6'	7'	2'	3'	4'	5'	6'	7'								
26	36"	80	0.87	0.0350	0.0348	0.0293	0.0439	235	119	71	47	27	17	270	132	77	50	35	26										
24	36"	50	1.13	0.0543	0.0558	0.0427	0.0595	316	147	85	55	38	27	398	185	106	68	48	35										
22	36"	50	1.45	0.0767	0.0814	0.0600	0.0790	434	199	113	73	51	37	594	273	155	100	70	51										

- 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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