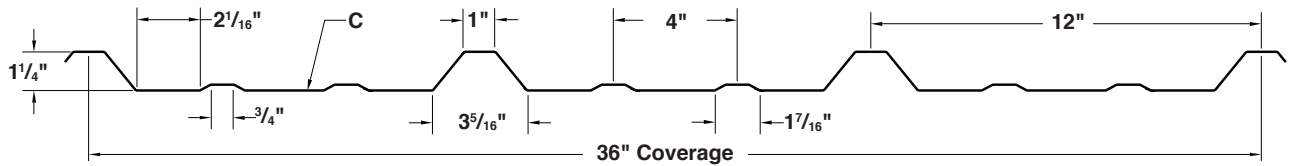


# R-PANEL



COMMERCIAL  
INDUSTRIAL  
ARCHITECTURAL  
PANEL

DIRECT FASTEN

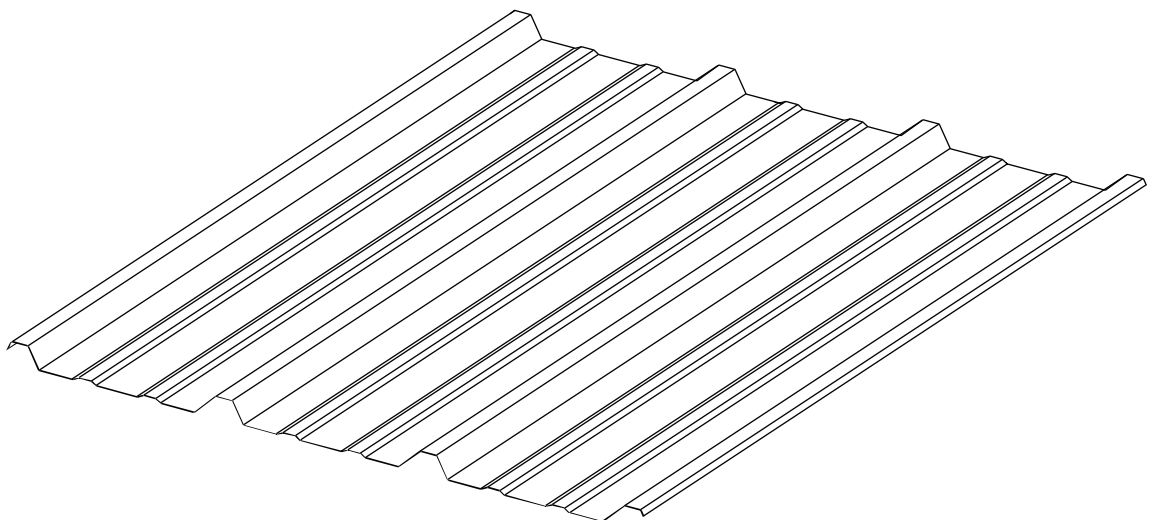
36"  
COVERAGE

WALL PANEL

APPLY OVER OPEN  
FRAMING OR  
SOLID SUBSTRATE

## HIGHLIGHTS

- ▶ Finishes: Kynar 500 (PVDF), MS Colorfast45<sup>®</sup>, and Acrylic Coated Galvalume<sup>®</sup>
- ▶ 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

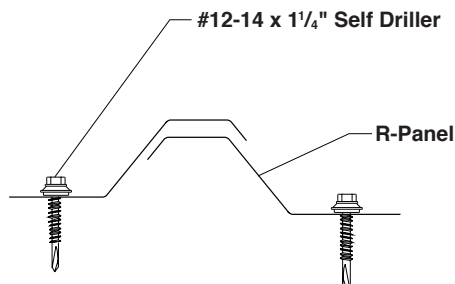
- ▶ Texas Windstorm Approved
- ▶ UL 580, Class 90 Wind Uplift
- ▶ UL 2218, Class 4 Impact Resistance
- ▶ UL 790, Class A Fire Resistance Rating

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# R-PANEL

## ATTACHMENT DETAIL



## FASTENING PATTERNS

### R-Panel Fastening Pattern - Interior



### R-Panel Fastening Pattern - Ends



## 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

Each panel has 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 panel 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 LIVE LOADS PSF<sup>1,2,3,4</sup> (3 or More Equal Spans)

GA.	Width (in.)	Yield KSI	Weight PSF	Top in Compression <sup>1</sup>		Bottom in Compression <sup>1</sup>		Inward (Gravity / Deflection) Load <sup>2,4</sup>							Outward Uplift (Stress) Load <sup>3</sup>						
				Ixx In <sup>4</sup> /ft	Sxx In <sup>3</sup> /ft	Ixx In <sup>4</sup> /ft	Sxx In <sup>3</sup> /ft	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 1996. "Specifications for the design of cold formed steel members." Ixx and Sxx are effective section properties for deflection and bending.
- Tabulated loads are allowable loads calculated in accordance with good engineering practices and with AISI 1996 specifications for bending stresses. Panel weight has not been subtracted from allowable gravity loads. Allowable load does not address web crippling requirement, or fasteners/support connection.
- Allowable loads are calculated in accordance with AISI 1996 specifications, and have been increased by 33 1/3% for wind uplift. Contact Metal Sales Technical Services Department for more information.
- Deflection consideration is limited by a maximum deflection ratio of L/180 of span.

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