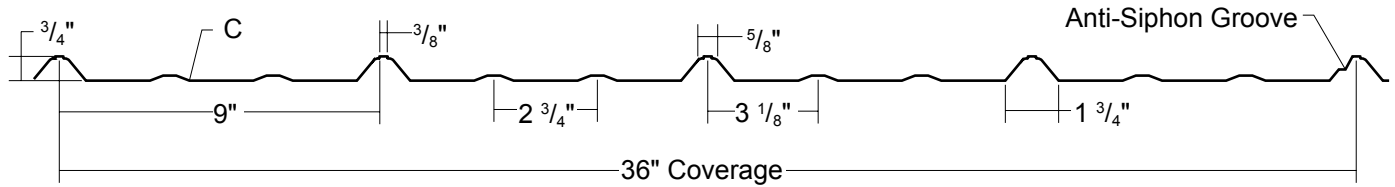


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Condensed
Technical
Reference



COMMERCIAL
RESIDENTIAL
PANEL

DIRECT
FASTEN

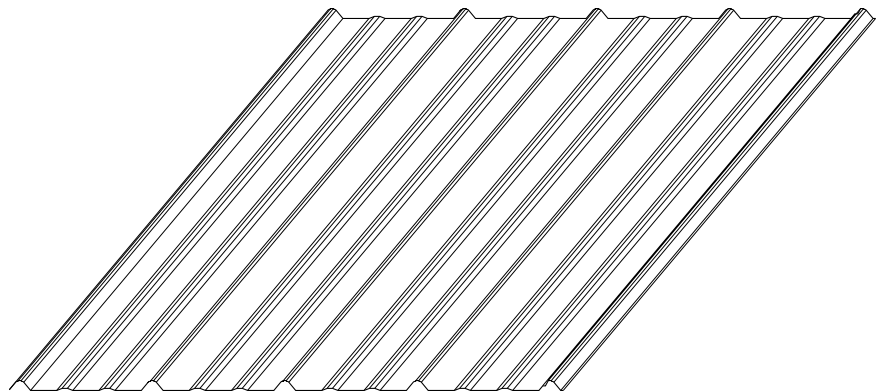
36"
COVERAGE

MINIMUM
SLOPE
3:12

OPEN FRAMING OR
SOLID SUBSTRATE

PANEL OVERVIEW

- ▶ Finishes: PVDF and Mill Finish
- ▶ Material: 3105-H24 Aluminum per ASTM B 209
- ▶ Thickness: 0.032"
- ▶ 36" panel coverage, 3/4" rib height
- ▶ Bell top trapezoidal rib on 9" centers
- ▶ Exposed fastened, low profile panel
- ▶ Applies over open framing or solid substrate
- ▶ Minimum roof slope: 3:12



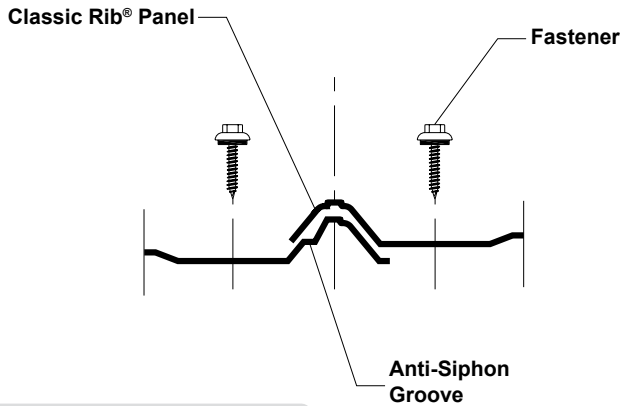
TESTING

- ▶ UL 2218, Class 4, Impact Resistance
- ▶ UL 790, Class A, Fire Resistance
- ▶ UL 263, Fire Resistance
- ▶ 2014 FBC Approvals - 14645.5

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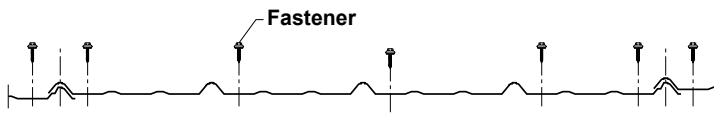
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ATTACHMENT DETAIL

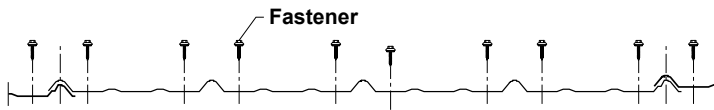


FASTENING PATTERN

Field of Panel



Ends of Panel



GENERAL INFORMATION

► Length

Minimum factory cut length is 5'-0".
Maximum recommended panel length is 45'-0".
Please inquire about longer panels.

► Fasteners

Overdriven fasteners will cause panel distortions.

Panel fasteners should extend 1/2" or more past the inside face of the support material.

Type 304 Stainless Steel fasteners are recommended for any fastener that penetrates Aluminum.

Type of fastener material is shown in parenthesis.

Panel Fasteners:

Attaching to Wood:

- #9-15 BiMetal Wood Screw (Stainless Steel)
- #10-14 Wood Screw (Carbon Steel)

Attaching to 18 ga to 12 ga Steel Framing:

- #12-14 BiMetal Driller (Stainless Steel)
- #12-14 Driller (Carbon Steel)

Trim Fasteners:

- 1/8" x 3/16" Pop Rivet (Stainless Steel)
- #14-11 x 1" Stitch Screw (Stainless Steel)
- 1/4"-14 x 7/8" Stitch Screw (Carbon Steel)

SECTION PROPERTIES

ALLOWABLE UNIFORM LOADS, psf (3 or More Equal Spans)

Thick in	Width in	Yield ksi	Weight psf	I in ⁴ /ft	S _{Top} in ³ /ft	S _{Bottom} in ³ /ft	Outward Load					
							0.5'	1'	1.5'	2'	2.5'	3'
0.032	36	24	0.51	0.0233	0.0354	0.1247	120	102	84	66	48	30

1. Theoretical section properties have been calculated per 2010 Aluminum Design Manual. I, S_{Top} and S_{Bottom} are section properties for deflection and bending.
2. Allowable load is calculated in accordance with 2010 Aluminum Design Manual specifications considering bending, shear, combined bending and shear, deflection and uplift load testing per UL 580 over 7/16" OSB. Values at 0.5' and 3' are test results. Other values are determined by linear interpolation. Allowable loads do not address web crippling or the performance of other fasteners or support materials.
3. Deflection consideration is limited by a maximum deflection ratio of L/180 of span.
4. Allowable loads do not include a 1/3 stress increase in uplift.

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