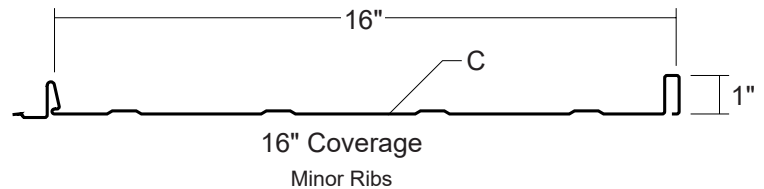
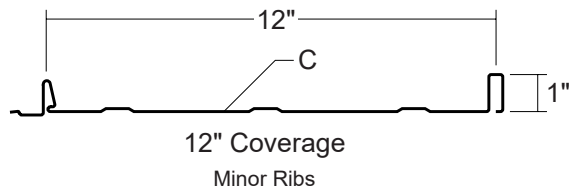
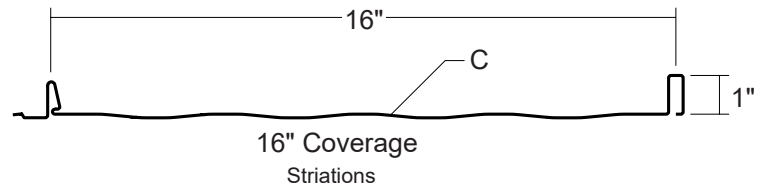
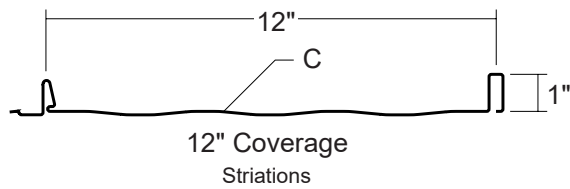


IMAGE II - Aluminum



**ARCHITECTURAL
RESIDENTIAL
PANEL**

**CONCEALED
FASTENED**

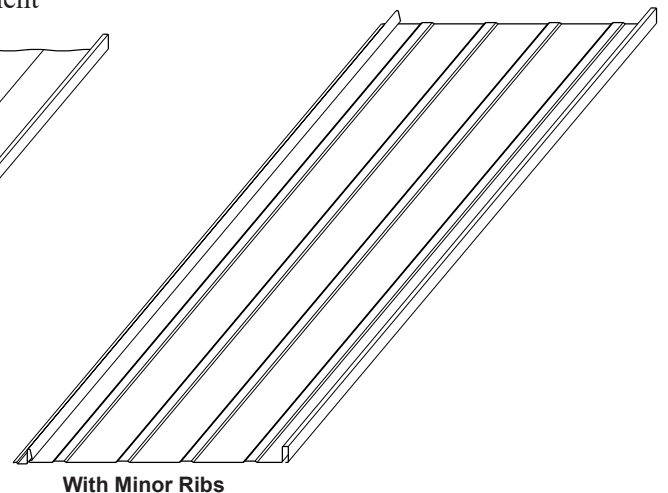
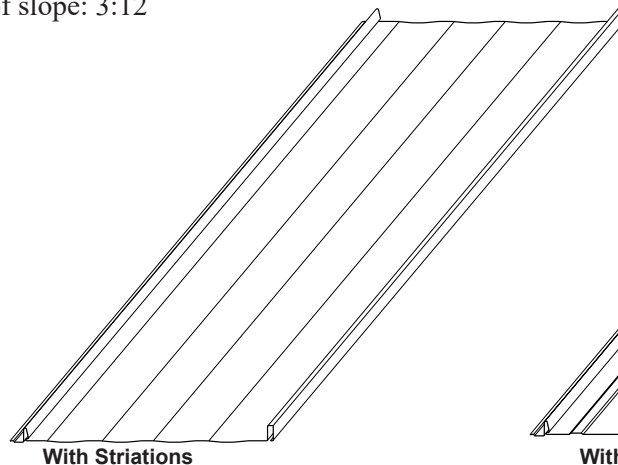
**12" OR 16"
COVERAGE**

**MINIMUM
SLOPE
3:12**

**SOLID WOOD
SUBSTRATE**

PANEL OVERVIEW

- ▶ Finishes: PVDF
- ▶ Material: 3105-H24 Aluminum per ASTM B 209
- ▶ Thickness: 0.032"
- ▶ 12" or 16" panel coverage, 1" rib height
- ▶ Architectural concealed direct fasten integral standing rib roof panel
- ▶ Applies over solid substrate with 30 pound felt underlayment
- ▶ Minimum roof slope: 3:12



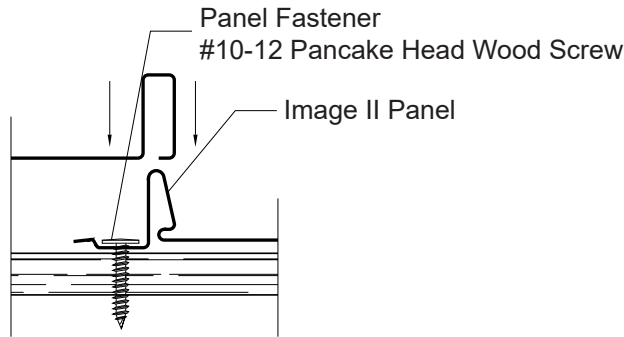
TESTING AND APPROVALS

- ▶ UL 2218, Class 4, Impact Resistance
- ▶ UL 790, Class A, Fire Resistance
- ▶ UL 263, Fire Resistance
- ▶ TAS 100, Wind Driven Rain
- ▶ UL 580/1897 Uplift Testing
- ▶ Texas Windstorm - Evaluation RC-398
- ▶ 2023 FBC Approvals: FL11560.2 and FL11560.3
- ▶ ICC Evaluation Report - ESR-2385

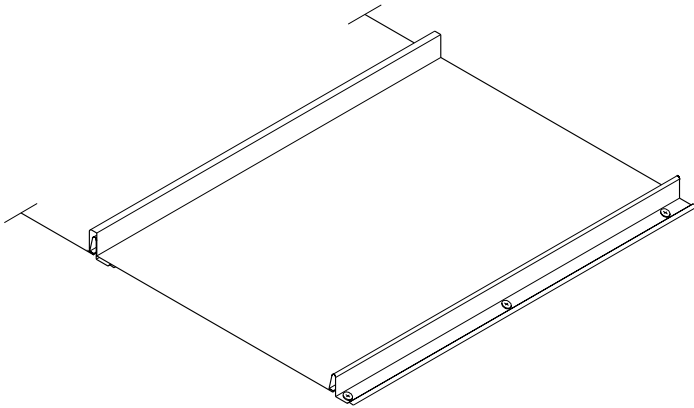
IMAGE II - Aluminum

**Condensed
Technical
Reference**

ATTACHMENT DETAIL



FASTENING PATTERN



GENERAL INFORMATION

► Length

Minimum factory cut length is 5'-0".
Maximum recommended panel length is 30'-0".
Please inquire about longer panels.

► Fasteners

Overdriven fasteners will cause panel distortion. Panel fasteners should extend 1/2" or more past the inside face of the support material.

Type 304 Stainless Steel fasteners are recommended for applications exposed to corrosive environments.

Applications with large internal suction pressure, such as partially enclosed structures and those with forced air ventilation, should add sidelap sealant to improve weather resistance.

The minimum roof slope permitted by IBC for metal panels with no sidelap sealant is 3:12. For metal panels with sidelap sealant, IBC permits a minimum slope as low as 1/2:12.

Panel Fasteners:

Attaching to Wood:

- #10-12 Pancake Head Wood Screw (Stainless Steel)
- #10-12 Pancake Head Wood Screw (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)

Concealed End Fasteners:

- #10-12 Wood Screws

Exposed End Fasteners:

- #10-14 XL Wood Screws

SECTION PROPERTIES

ALLOWABLE UNIFORM LOADS, psf for various fastener spacings

Thick in	Width in	Yield ksi	Weight psf	I in ⁴ /ft	S _{Top} in ³ /ft	S _{Bottom} in ³ /ft	Z in ³ /ft	Outward Load					
								0.5'	1'	1.25'	1.5'	1.75'	2'
0.032	12	17	0.62	0.0370	0.0411	0.1963	0.077	107	54	43	36	28	22
0.032	16	17	0.057	0.0293	0.0314	0.1754	0.062	107	54	43	36	28	22

1. Theoretical section properties have been calculated per 2015 Aluminum Design Manual. I, S and Z are section properties for deflection and bending.
2. Allowable load is calculated in accordance with 2015 Aluminum Design Manual specifications considering load testing per UL580 on 7/16" OSB. Values at 0.5' and 2' represent test results. Other values are determined by interpolation. Allowable loads do not consider other support conditions, including: web crippling, fasteners and support material. Panel weight is not considered.
3. Allowable load considers the three or more equal span case.
4. Deflection consideration is limited by a maximum deflection ratio of L/180 of span.
5. Allowable loads do not include a 1/3 stress increase in uplift.

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