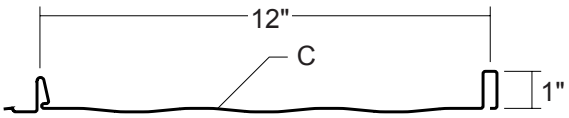
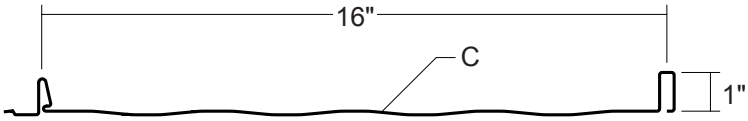
ALUMINUM IMAGE II

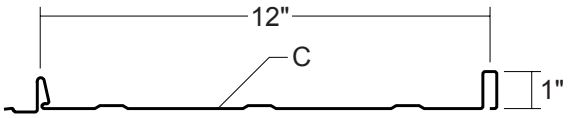
Condensed Technical Reference



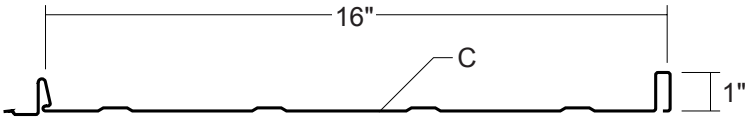
12" Coverage
Striations



16" Coverage
Striations



12" Coverage
Minor Ribs

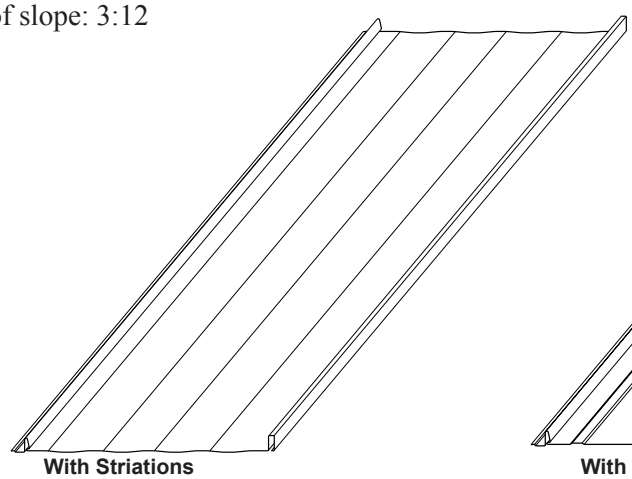


16" Coverage
Minor Ribs

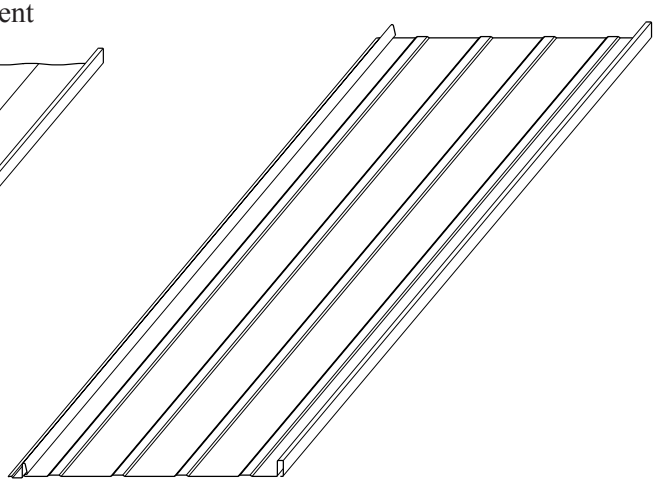
ARCHITECTURAL RESIDENTIAL PANEL | **CONCEALED FASTENED** | **12" OR 16" COVERAGE** | **MINIMUM SLOPE 3:12** | **SOLID WOOD SUBSTRATE**

PANEL OVERVIEW

- Finishes: PVDF and Mill Finish
- 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



With Striations



With Minor Ribs

TESTING AND APPROVALS

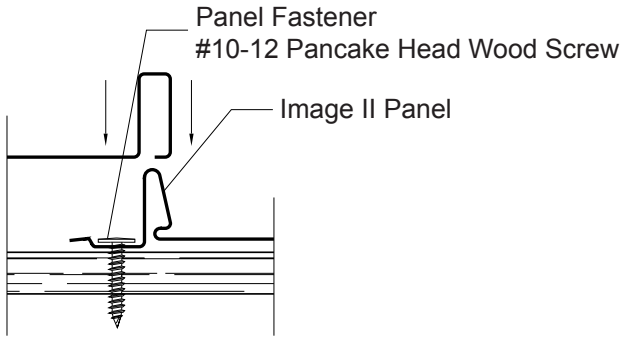
- UL 2218, Class 4, Impact Resistance
- UL 790, Class A, Fire Resistance
- UL 263, Fire Resistance
- TAS 100, Wind Driven Rain
- UL 580/1897 Uplift Testing
- Texas Windstorm - Evaluation RC-398
- 2020 FBC Approval: FL11560.2 and FL11560.3
- ICC Evaluation Report - ESR-2385

ms metal sales™ manufacturing corporation

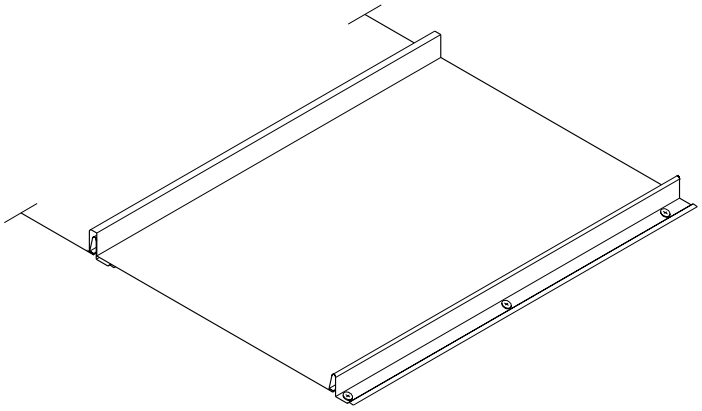
ALUMINUM IMAGE II

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.

Type of fastener material is shown in parenthesis.

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					
								Outward Load					
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	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.

©MSMC/2-2021

metal sales manufacturing corporation
metalsales.us.com

Anchorage, AK 866.640.7663
Bay City, MI 888.777.7640
Deer Lake, PA 800.544.2577
Denver, CO 800.289.7663
Detroit Lakes, MN 888.594.1394
Fontana, CA 800.782.7953
Fort Smith, AR 877.452.3915
Independence, MO 800.747.0012
Jacksonville, FL 800.394.4419
Jefferson, OH 800.321.5833
Mocksville, NC 800.228.6119
Nashville, TN 800.251.8508
Rock Island, IL 800.747.1206
Rogers, MN 800.328.9316
Seattle, WA 800.431.3470
Sellersburg, IN 800.999.7777
Sioux Falls, SD 888.299.0024
Spokane, WA 800.572.6565
Temple, TX 800.543.4415
Woodland, CA 800.759.6019