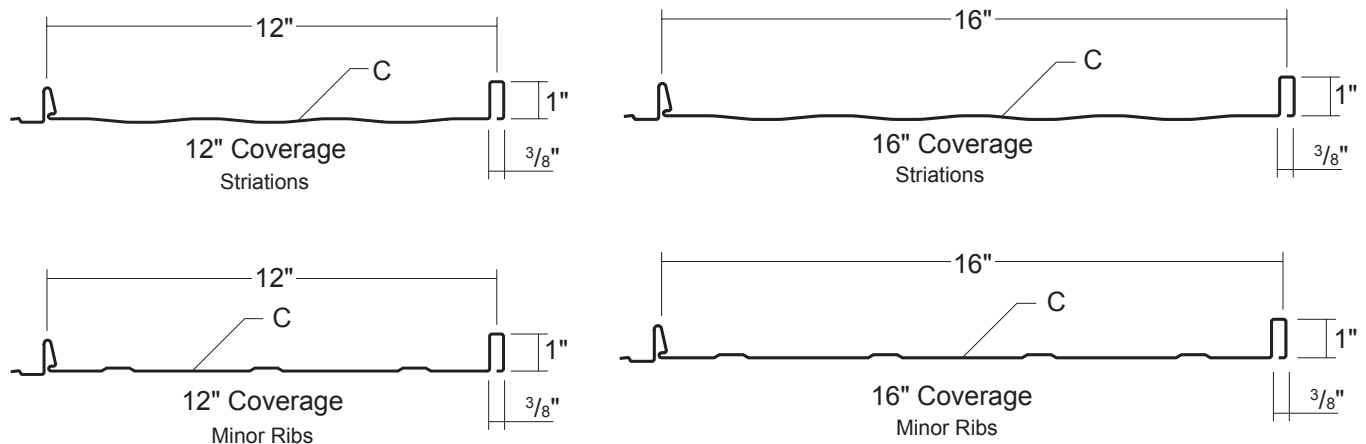


IMAGE II



Panels also come in flat pans. However we recommend with Striations or Minor Ribs to strengthen the panel.

ARCHITECTURAL
RESIDENTIAL
PANEL

CONCEALED
FASTENED

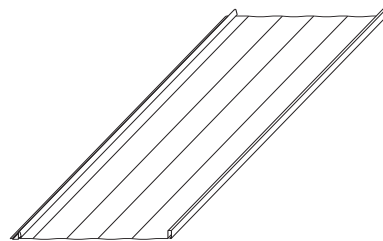
12" OR 16"
COVERAGE

MINIMUM
SLOPE
3:12

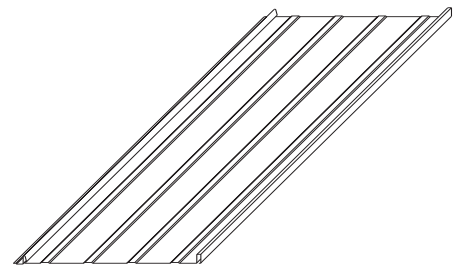
SOLID WOOD
SUBSTRATE

PANEL OVERVIEW

- ▶ Finishes: MS Colorfast45[®] and Acrylic-Coated Galvalume[®]
- ▶ Corrosion Protection: AZ55 per ASTM A 792 for unpainted Galvalume[®]
AZ50 per ASTM A 792 for painted Galvalume[®]
G90 per ASTM A 653 for Galvanized
- ▶ Gauges: 26 ga standard; 24 ga optional
- ▶ 12" or 16" panel coverage, 1" rib height
- ▶ Panel Length: Minimum: 5'; Maximum: 30' recommended
- ▶ Architectural, concealed direct fastened, integral standing rib roof system
- ▶ Minimum roof slope: 3:12
- ▶ Applies over plywood with minimum 30# felt underlayment



With Striations

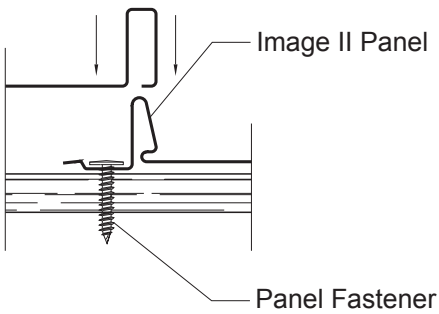


With Minor Ribs

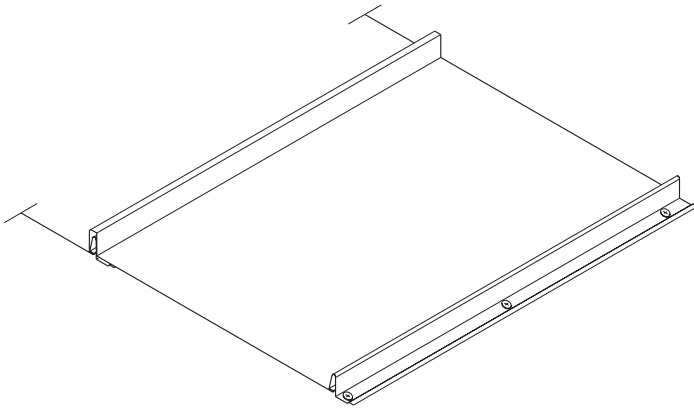
TESTING AND APPROVALS

- ▶ UL 2218 Impact Resistance - Class 4
- ▶ UL 790 Fire Resistance Rating - Class A, per building code
- ▶ UL 263 Fire Resistance Rating - per assembly
- ▶ UL 580 Uplift Resistance - Class 90 Construction: #529
- ▶ Texas Windstorm - Evaluation RC-162 and RC-399
- ▶ 2014 FBC Approvals - FL11560.4, FL11560.5 and FL14645.11
- ▶ Miami-Dade County, Florida NOA 14-0107.04 expires 8/8/2018
- ▶ ICC Evaluation Report - ESR-2385

ATTACHMENT DETAIL



FASTENING PATTERN



FASTENER INFORMATION

Overdriven fasteners will cause panel distortions.

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

Thick panels (ex. 18 ga) or supports (ex. 1/2" steel) may require predrilling of holes for screws.

Panel Fastener:
#10-16 Pancake Head Wood Screw
or
#8-15 Truss Head Wood Screw

Concealed End Fastener:
#10-16 Pancake Head Wood Screw
or
#8-15 Truss Head Wood Screw

Exposed End Fastener:
#10-14 XL Wood Screw

Trim Fastener:
1/4"-14 x 7/8" XL Stitch Screw
or
1/8" x 3/16" Pop Rivet

SECTION PROPERTIES

ALLOWABLE UNIFORM LOADS, psf For various fastener spacings

Ga	Width in	Yield ksi	Weight psf	Top In Compression		Bottom In Compression		Outward Load			
				I _{xx} in ⁴ /ft	S _{xx} in ³ /ft	I _{xx} in ⁴ /ft	S _{xx} in ³ /ft	0.5'	1'	1.5'	2'
26	16	50	0.92	0.0165	0.0174	0.0165	0.0177	103	96	90	84
24	16	50	1.19	0.0210	0.0226	0.0210	0.0226	103	96	90	84

- Theoretical section properties have been calculated per AISI 2012 'North American Specification for the Design of Cold-Formed Steel Structural Members'. I_{xx} and S_{xx} are effective section properties for deflection and bending.
- Allowable load is calculated in accordance with AISI 2012 specifications considering bending, shear, combined bending and shear, deflection and UL 580 uplift test using #10-12 Pancake Wood Screws into 5/8" plywood. Allowable load considers the 3 or more equal spans condition. Allowable load does not address web crippling, or support material. 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 for wind.