Metal Center
METAL ROOFING SUPPLY

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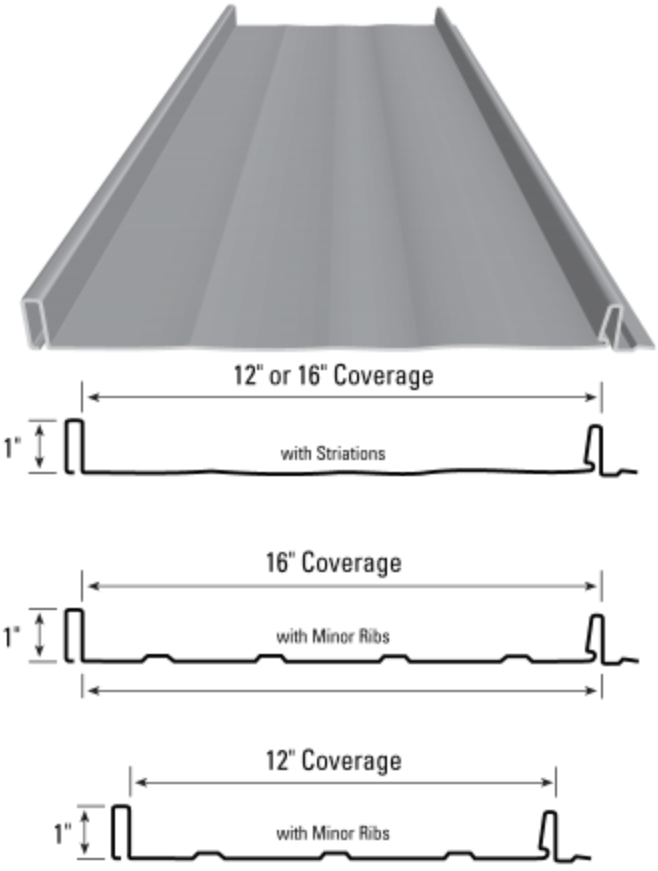
Zia Lock



Product Overview

Modern and sophisticated, the elegant lines of these profiles make it a perfect fit for your home or business. The hidden fastener system will transform any roof line into a show piece and is available with an optional minor rib.

Testing & 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
- 2017 FBC Approvals - FL11560.4, FL11560.5 and FL14645.12 Miami-Dade County, Florida NOA

Required Substrate: Standing Seam is designed to be utilized over open structural framing, but can easily be used with a solid substrate. The recommended substrate is 5/8" plywood with a 30 pound moisture barrier.

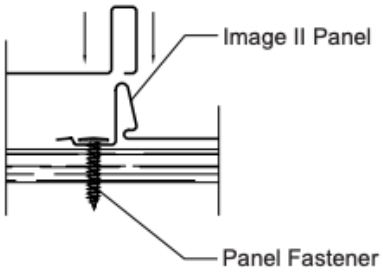
- Minimum Slope:
    - The minimum recommended slope for Standing Seam is 3:12.
- Coverage
    - Each panel's effective coverage is either 16", 18", or 12".
- Lengths
    - The minimum length for Standing Seam is 1' 6", with a maximum recommended length of 40'.
- Availability
    - Standing Seam is available in 26 gauge and 24 gauge.
- Application
    - Standing Seam is used largely in commercial, residential, and agricultural settings.
- Fastening System
    - Concealed Fastened with an external clip system.
- Materials
    - Steel Grade 50 per ATSM A-792
- Finish
    - Acrylic Coated Galvalume® (ACG) / ASTM A-792 - AZ55
    - Prepainted Galvalume / ASTM A-792 - AZ50
    - Silicone-Modified Polyester (SMP)
    - **Fluorocarbon (PVDF)

* Differential appearance of Acrylic Coated Galvalume roofing materials is not a cause for rejection.

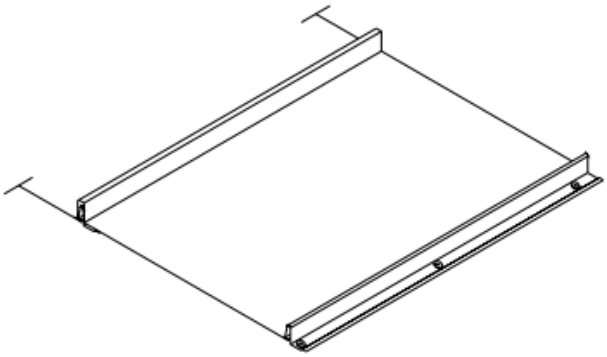
** Meets both Kynar 500 and Hylar 5000 specifications.

Standing Seam Fastening Procedures

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			
				Ixx in^4/ft	Sxx in^3/ft	Ixx in^4/ft	Sxx 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

1. Theoretical section properties have been calculated per AISI 2012 'North American Specification for the Design of Cold-Formed Steel Structural Members'. Ixx and Sxx are effective section properties for deflection and bending.
2. 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.
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 for wind.