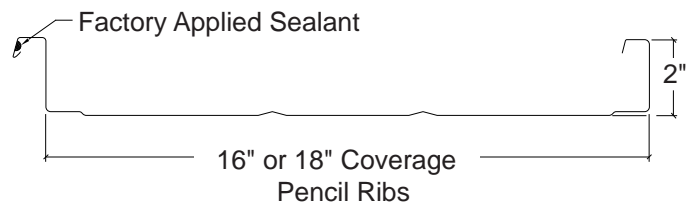
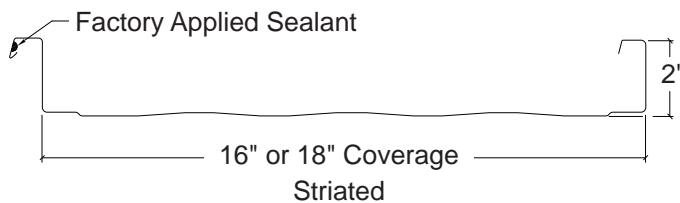
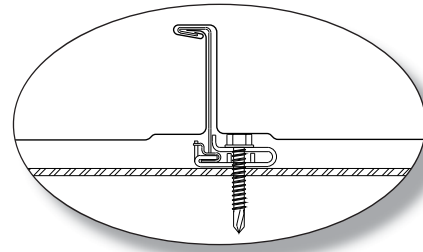
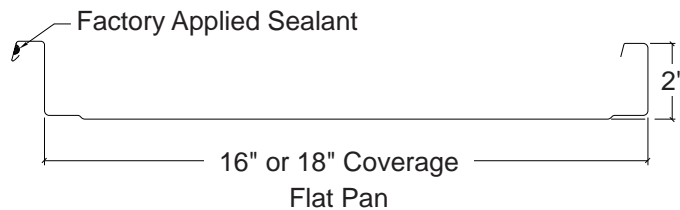


MAGNA-LOC



ARCHITECTURAL
COMMERCIAL
INDUSTRIAL
PANEL

CONCEALED
FASTENERS

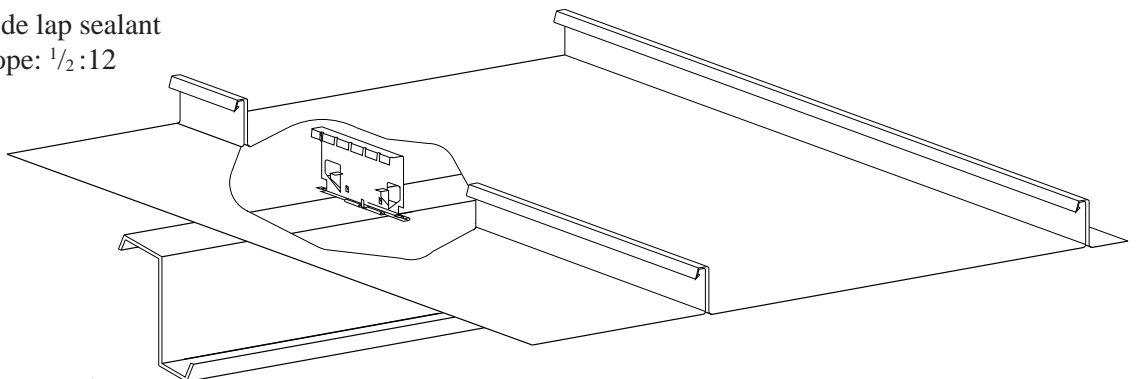
16" OR 18"
COVERAGE

MINIMUM
1/2:12 SLOPE

OPEN FRAMING OR
SOLID SUBSTRATE

PANEL OVERVIEW

- ▶ Finishes: Kynar 500 (PVDF), Acrylic Coated Galvalume®
- ▶ Gauges: 24ga standard and 22ga optional
- ▶ 16" or 18" panel coverage, 2" rib height
- ▶ Panels can be factory notched and punched
- ▶ Architectural/structural flat pan standing seam panel
- ▶ Applies over open framing or solid substrate
- ▶ Concealed clip designed to accommodate thermal movement
- ▶ Integral mechanically seamed side lap seam
- ▶ Accommodates 1/2" to 6" blanket insulation
- ▶ Factory applied side lap sealant
- ▶ Minimum roof slope: 1/2:12

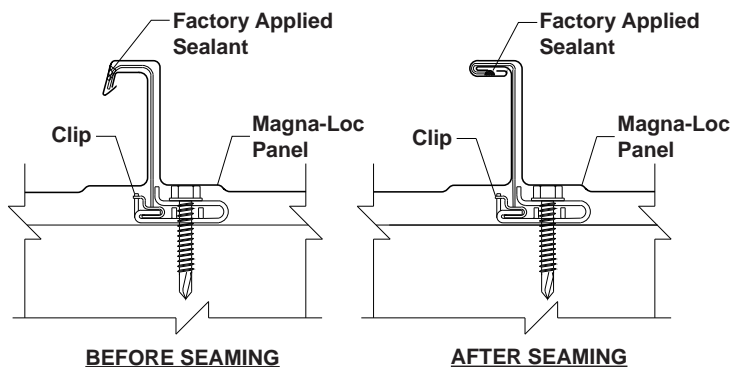


TESTING

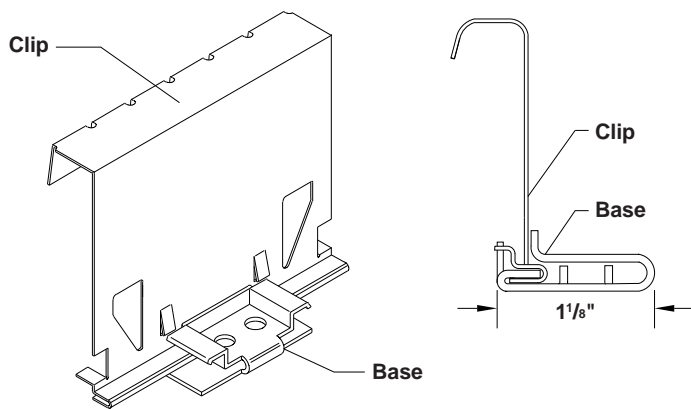
- ▶ UL-263 Fire Resistance Rating
- ▶ UL-2218 Class 4 Impact Resistance
- ▶ Factory Mutual Approved Class 1-90
- ▶ Florida Building Code Approved 5810.1
- ▶ UL-790 Class A Fire Resistance Rating
- ▶ ASTM E-1680 Air Penetration
- ▶ ASTM E-1646 Water Infiltration
- ▶ CECS-07416 US Army Corps of Engineers Rated-ASTM E-1592
- ▶ UL 580 Class 90 Wind Uplift-Construction Numbers: 506, 506A, 506B

MAGNA-LOC

ATTACHMENT DETAILS



PANEL CLIP



GENERAL INFORMATION

► Slope

The minimum recommended slope for the Magna-Loc roof panel is 1/2:12.

► Substructure

Magna-Loc is designed to be utilized over open structural framing or a solid substrate.

► Clips

Clip spacing is based upon the spacing of structural framing members and loading requirements.

► Coverage

Magna-Loc panels are available in a 2" seam height with a 16" or 18" width coverage.

► Length

Minimum factory cut length is 5'-0" (with striations), 7'-0" (without striations). Maximum recommended panel length is 45'-0". Longer panels require additional consideration in packaging, shipping, and erection. Please consult Metal Sales for recommendations.

► Fasteners

The fastener selection guide should be consulted for choosing the proper fastener for specific applications. Quantity and type of fastener must meet necessary loading and code requirements.

NOTE: All panels are subject to surface distortion due to improperly applied fasteners. Overdriven fasteners will cause stress and induce oil canning across the face of the panel at or near the point of attachment.

► Availability

Finishes: Acrylic Coated Galvalume® or various Kynar 500 (PVDF) colors.
Gauges: 24ga and 22ga

SECTION PROPERTIES

ALLOWABLE UNIFORM LIVE LOADS PSF (3 or More Equal Spans)

Ga.	Width (in.)	Yield KSI	Weight PSF	Top in Compression		Bottom in Compression		Inward (Gravity / Deflection) Load					Outward Uplift (Stress) Load						
				Ixx In ⁴ /ft	Sxx In ³ /ft	Ixx In ⁴ /ft	Sxx In ³ /ft	2.5'	3'	3.5'	4'	4.5'	5'	2.5'	3'	3.5'	4'	4.5'	5'
24	16"	50	1.25	0.1785	0.1013	0.0855	0.0754	161	126	101	82	68	57	65	60	55	50	45	40
22	16"	50	1.63	0.2468	0.1419	0.1178	0.1066	257	197	155	125	103	86	86	80	73	67	61	55
24	18"	50	1.21	0.1620	0.0900	0.0760	0.0669	144	112	89	73	61	51	68	62	56	50	43	37
22	18"	50	1.58	0.2233	0.1255	0.1047	0.0947	160	128	104	87	74	63	78	73	68	62	57	52

- Theoretical section properties have been calculated per AISI 2001 "Specification for the Design of Cold-formed Steel Structural Members." Ixx and Sxx are effective section properties for deflection and bending.
- Allowable load is calculated in accordance with AISI 2001 specifications considering bending, shear, combined bending and shear, deflection, and ASTM 1592 testing. Allowable load considers the worst case of 3 and 4 equal span conditions. Allowable load does not address web crippling or fasteners/support connection and 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 in uplift.