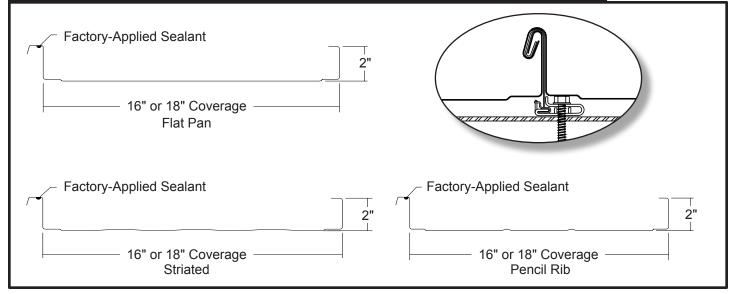
ALUMINUM MAGNA-LOC 180





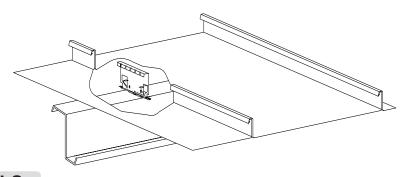
ARCHITECTURAL COMMERCIAL INDUSTRIAL PANEL

CONCEALED FASTENERS

16" OR 18" COVERAGE MINIMUM 1/2:12 SLOPE OPEN FRAMING OR SOLID SUBSTRATE

PANEL OVERVIEW

- Finishes: PVDF and Mill Finish
- Material: 3003-H14 Aluminum per ASTM B 209
- ► Thickness: 0.032"
- ▶ 16" or 18" panel coverage, 2" rib height
- Panels can be factory notched and punched for end laps
- ► Architectural/structural flat pan standing seam panel
- Applies over open framing or solid substrate
- ► Concealed clip designed to accommodate thermal movement, 1.5" each way
- Integral, mechanically seamed side lap
- Accommodates ¹/₂" to 6" blanket insulation
- ► Factory-applied side lap sealant
- ► Minimum roof slope: 1/2:12

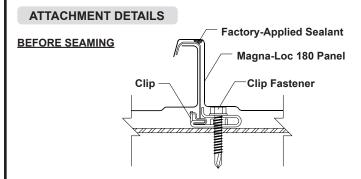


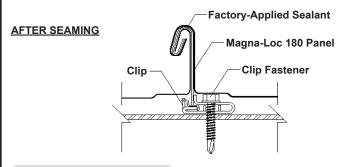
TESTING AND APPROVALS

- ▶ UL 2218, Class 4, Impact Resistance
- ► UL 790, Class A, Fire Resistance
- ► UL 263, Fire Resistance
- ► ASTM E 2140 Standing Water No Leakage at 6" of water
- ► ASTM E 1592 Wind Uplift
- ▶ UL 580 Uplift Resistance Class 90 Construction: #672

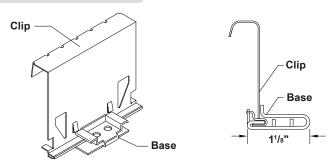


ALUMINUM MAGNA-LOC 180





PANEL CLIP



GENERAL INFORMATION

▶ Length

Minimum factory cut length is 5'-0" with striations and 7'-0" without striations.

Maximum recommended panel length is 45'-0". Please inquire about longer panels.

▶ Clips

Clip spacing is based upon the spacing of structural framing members and loading requirements. Clips with Galvanized tabs are standard. Clips with Stainless Steel tabs are also available.

▶ Fasteners

Overdriven fasteners will cause panel distortions.

Panel and Clip fasteners should extend 1/2" or more past the inside face of the support material.

Type 304 Stainless Steel fasteners are recommended for any fastener that penetrates Aluminum.

Type of fastener material is shown in parenthesis.

Clip Fasteners:

Attaching to Wood:

#12-11 x 1.5" Wood Screw (Carbon Steel)

Attaching to Steel:

<18 ga: 1/4"-13 Deck Screw (Carbon Steel)

>= 18 ga, <= 12 ga: 1/4"-14 Driller (Carbon Steel) > 12 ga: 1/4"-24 Driller, No Washer (Carbon Steel)

Exposed End Fasteners (Attaching to Eave Plate): #12-14 Driller (Stainless Steel) #12-14 Driller XL (Carbon Steel)

Concealed End Fasteners (Attaching to Eave Plate): #12-14 Driller (Stainless Steel) #12-14 Driller, No Washer (Carbon Steel)

Trim Fasteners:

1/8" x 3/16" Pop Rivets (Stainless Steel) #14-11 x 1" Stitch Screw (Stainless Steel) 1/4"-14 x 7/8" Stitch Screw (Carbon Steel)

SECTION PROPERTIES								ALLOWABLE UNIFORM LOADS, psf (3 or More Equal Spans)											
Thick	Width in	Yield ksi	Weight psf	I in⁴/ft	S _{⊤op} in³/ft	S _{Bottom} in ³ /ft	Inward Load					Outward Load							
in							2'	2.5'	3'	3.5'	4'	5'	2'	2.5'	3'	3.5'	4'	5'	
0.032	16	17	0.60	0.2333	0.1321	0.5830	86	56	39	29	22	14	80	72	65	57	49	34	
0.032	18	17	0.58	0.2133	0.1185	0.5792	76	49	34	25	19	12	63	57	51	46	40	28	

- 1. Section properties have been calculated per 2010 Aluminum Design Manual. I, S_{Top} and S_{Bottom} are section properties for deflection and bending.
- 2. Allowable load is calculated in accordance with 2010 Aluminum Design Manual specifications considering bending, shear, combined bending and shear, deflection, and ASTM 1592 uplift testing. Allowable load does not address web crippling or other fasteners or support materials.
- 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 in uplift.

TIS metal sales manufacturing corporation

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