

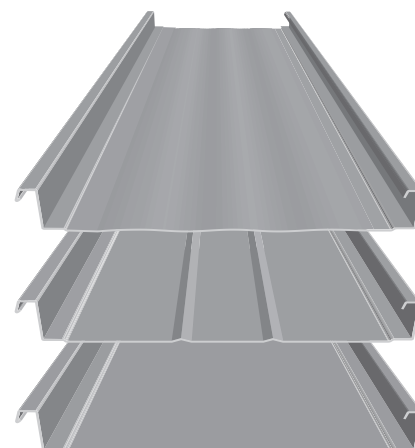
Magna-Loc Panel

Metal Sales Manufacturing Corporation



Architectural, Commercial and Industrial Panel

- ▶ Choose from PVDF or Acrylic Coated Galvalume®
- ▶ Available in a wide variety of ENERGY STAR® listed colors
- ▶ Applies over solid substrate or open framing
- ▶ Minimum Roof Slope 1/2:12
- ▶ Minimum Roof Slope 3:12 (where a valley condition exists)
- ▶ 24 ga standard, 22 ga optional
- ▶ Factory-applied side lap sealant

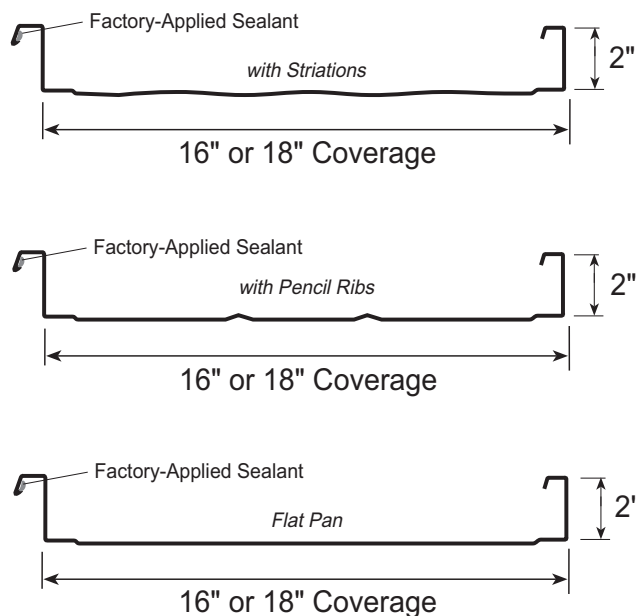


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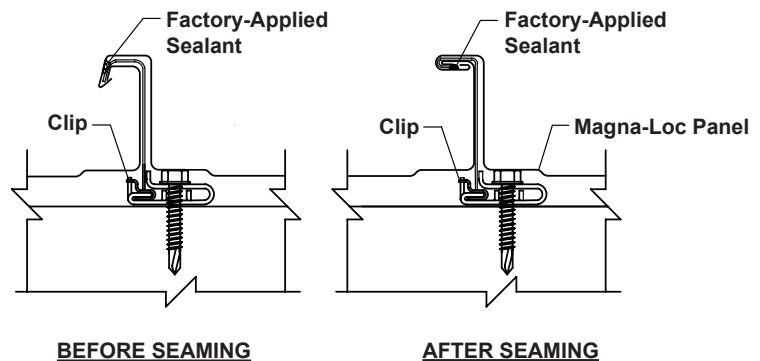
MS Metal Sales™

MAGNA-LOC PANEL

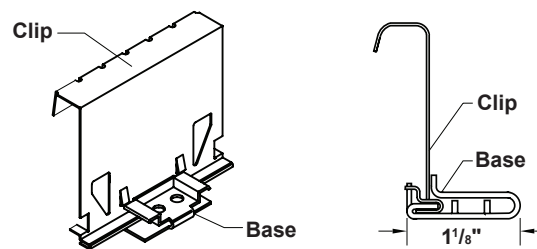
PANEL PROFILES



ATTACHMENT DETAIL



UL-90 CLIP DETAIL



TESTING AND APPROVALS

- ▷ UL 263 Fire Resistance Rating
- ▷ UL 2218 Class 4 Impact Resistance
- ▷ UL 790 Class A Fire Resistance Rating
- ▷ UL 580, Class 90 Wind Uplift-Const. #: 506, 506A, 506B
- ▷ ASTM E 1680 Air Penetration
- ▷ ASTM E 1646 Water Infiltration
- ▷ ASTM E 2140 Static Water Penetration
- ▷ Texas Wind Storm Evaluation RC-197
- ▷ Miami-Dade County NOA's - 18-0901.01 and 18-0901.02 expires 12/12/2023
- ▷ Factory Mutual Approved Class 1-90, 1-105, 1-165
- ▷ 2014 Florida Building Code Approved 10999.5, 11560.6, 11560.7

LOAD TABLE

SECTION PROPERTIES								ALLOWABLE UNIFORM LOADS psf (3 or More Equal Spans)											
Ga.	Width in	Yield ksi	Weight psf	Top In Compression		Bottom In Compression		Inward Load						Outward Load					
				Ixx in ⁴ /ft	Sxx in ³ /ft	Ixx in ⁴ /ft	Sxx in ³ /ft												
								2'	2.5'	3'	3.5'	4'	5'	2'	2.5'	3'	3.5'	4'	5'
24	16"	50	1.25	0.1785	0.1013	0.0855	0.0754	368	249	179	135	105	68	123	111	99	87	75	51
24	18"	50	1.21	0.1620	0.0900	0.0760	0.0669	327	221	159	119	93	60	111	99	87	75	63	39
22	16"	50	1.64	0.2475	0.1424	0.1178	0.1070	549	367	261	195	151	98	128	119	110	100	91	73
22	18"	50	1.59	0.2240	0.1261	0.1047	0.0951	488	326	232	173	134	87	120	108	95	83	71	46

1. Theoretical section properties have been calculated per AISI 2016. "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 2016 specifications considering bending, shear, combined bending and shear and deflection. Allowable load does not address web crippling, fasteners, support material or load testing. Allowable load considers the three or more equal span conditions. 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.

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