

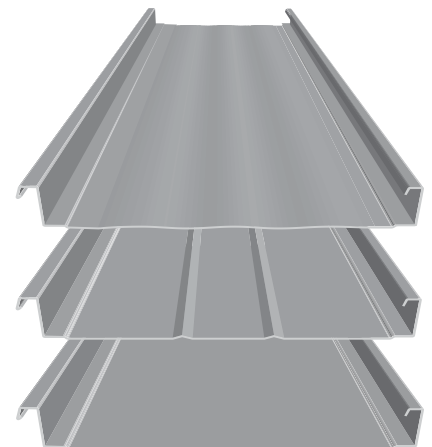
Magna-Loc Panel

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

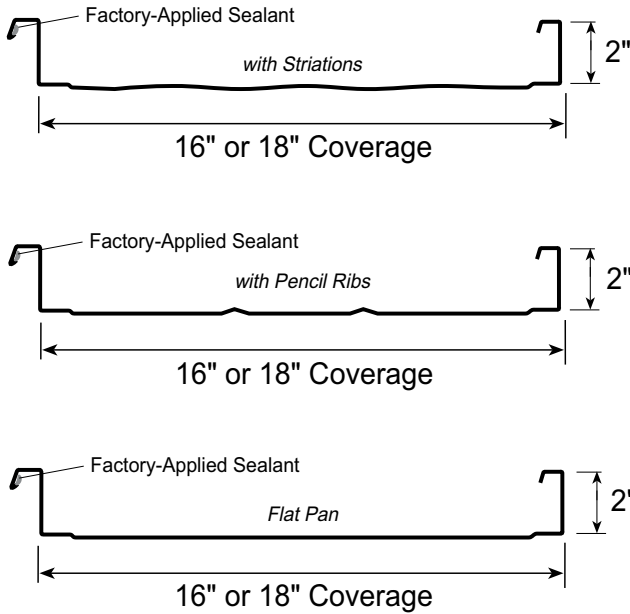


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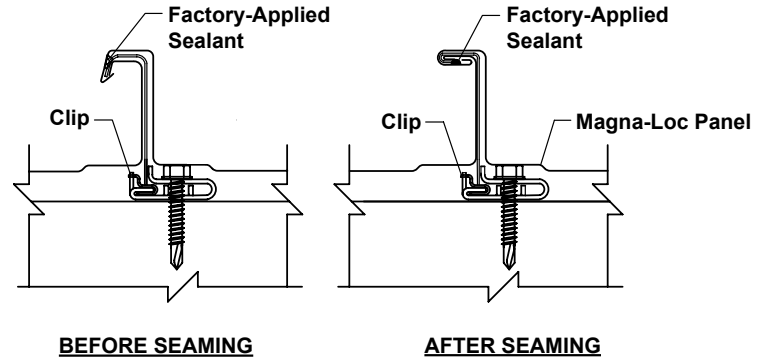
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MAGNA-LOC PANEL

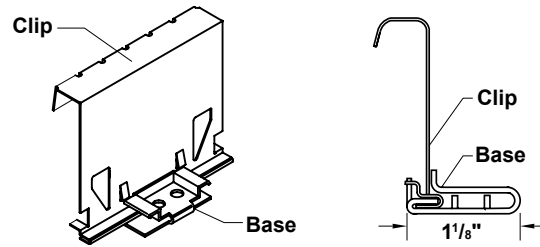
PANEL PROFILES



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 Approved 08-1014.08, 08-1006.04
- ▷ Factory Mutual Approved Class 1-90, 1-105, 1-165
- ▷ 2014 Florida Building Code Approved 10999.5, 11560.6, 11560.7, 10999.2

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	2.5'	3'	3.5'	4'	4.5'	5'	2.5'	3'	3.5'	4'	4.5'	5'
24	16"	50	1.25	0.1787	0.1013	0.0852	0.0754	249	179	134	105	83	68	111	99	87	75	63	51
24	18"	50	1.21	0.1620	0.0900	0.0758	0.0669	221	159	119	93	74	60	68	62	56	50	43	37
22	16"	50	1.64	0.2478	0.1424	0.1180	0.1070	367	261	195	151	120	98	119	110	101	92	83	74
22	18"	50	1.59	0.2242	0.1261	0.1049	0.0951	326	232	173	134	107	87	78	73	68	62	57	52
20	16"	33	2.02	0.3164	0.1831	0.1641	0.1474	330	236	176	136	109	89	119	110	101	92	83	74
20	18"	33	1.96	0.2892	0.1640	0.1459	0.1310	293	209	157	121	97	79	78	73	68	62	57	52

1. Theoretical section properties have been calculated per AISI 2012. "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 and deflection and ASTM E 1592 uplift testing. Allowable load considers the 3 or more equal span conditions. Allowable load does not address web crippling, fasteners/support connection. 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 in uplift.

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