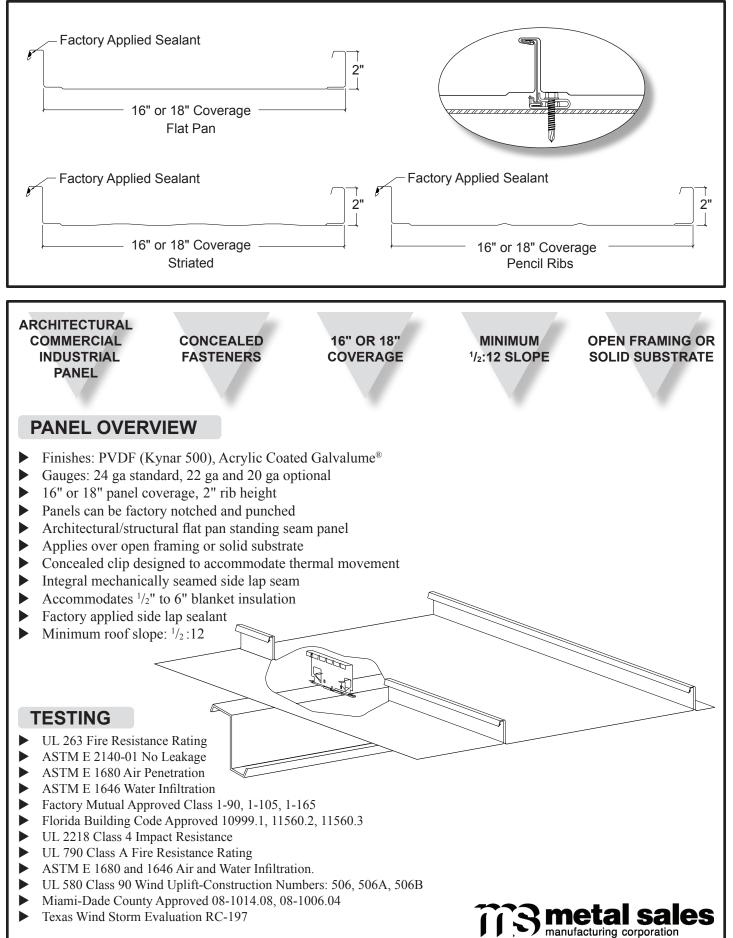
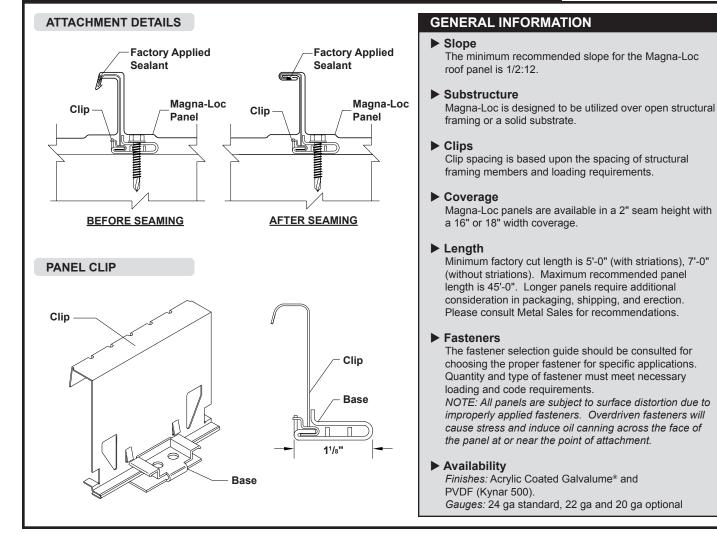
# **MAGNA-LOC**

#### Condensed Technical Reference



## **MAGNA-LOC**





	SECTION PROPERTIES										ALLOWABLE UNIFORM LOADS psf (3 or More Equal Spans)											
Ga.	Width	Yield ksi	Weight psf	Top In Compression		Bottom In Compression							Outward									
	a. viain			lxx in⁴/ft	Sxx in³/ft	lxx in⁴/ft	Sxx in³/ft	Load				Load										
								2.5'	3'	3.5'	4'	4.5'	5'	2.5'	3'	3.5'	4'	4.5'	5'			
2	4 16"	50	1.25	0.1785	0.1013	0.0855	0.0754	161	126	101	82	68	57	111	99	87	75	63	51			
2	2 16"	50	1.63	0.2468	0.1419	0.1178	0.1066	257	197	155	125	103	86	119	110	101	92	83	74			
2	0 16"	33	2.02	0.3165	0.1831	0.1643	0.1474	252	189	147	117	93	76	392	283	213	166	133	109			
2	4 18"	50	1.21	0.1620	0.0900	0.0760	0.0669	144	112	89	73	61	51	68	62	56	50	43	37			
2	2 18"	50	1.58	0.2233	0.1255	0.1047	0.0947	233	176	138	111	91	74	78	73	68	62	57	52			
2	0 18"	33	1.96	0.2893	0.1640	0.1460	0.1310	224	168	131	104	83	67	350	253	191	149	119	97			

1. 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 for 24 ga and 22 ga. Allowable load considers the worst case of 3 and 4 equal span conditions. Allowable load does not address web crippling or fasteners/support connection or testing for 20 ga and 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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