



Maxima 1.5 16"

(Bare Galvalume & Painted Galvalume)



SECTION PROPERTIES						TOP IN COMPRESSION			BOTTOM IN COMPRESSION		
GAUGE	FY (KSI)	WEIGHT (PSF)	V _a kip/ft.	P _{a_end} lbs/ft.	P _{a_int} lbs/ft.	I _x (in. ⁴ /ft.)	S _e (in. ³ /ft.)	M _a kip-in./ft.	I _x (in. ⁴ /ft.)	S _e (in. ³ /ft.)	M _a kip-in./ft.
22	50.0	1.52	1.0650	356.30	550.70	0.0900	0.0666	2.3190	0.0470	0.0660	1.6200

1. Section properties are calculated in accordance with the 2001 AISI North American Specification for the Design of Cold-Formed Steel Structural Members.
2. V_a is the allowable shear.
3. P_a is the allowable load for web crippling on end & interior supports.
4. I_x is for deflection determination.
5. S_e is for bending.
6. M_a is the allowable bending moment.
7. All values are for one foot of panel width.

Allowable Uniform Loads (PSF)

Span Type	Load Type	Span in Feet															
		1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50	8.00	8.50
Single	Positive Wind	500	500	386	247	171	126	96	76	61	51	42	36	31	27	24	21
	Live	500	500	386	247	171	126	96	76	61	51	42	36	31	27	24	21
	Deflection (L/180)	500	500	500	500	291	183	122	86	62	47	36	28	22	18	15	12
	Deflection (L/240)	500	500	500	377	218	137	92	64	47	35	27	21	17	13	11	9
2 Span	Positive Wind	500	442	257	167	117	86	66	52	42	35	29	25	21	19	16	14
	Live	500	442	257	167	117	86	66	52	42	35	29	25	21	19	16	14
	Deflection (L/180)	500	500	500	500	500	336	225	158	115	86	66	52	42	34	28	23
	Deflection (L/240)	500	500	500	500	400	252	169	118	86	65	50	39	31	25	21	17
3 Span	Positive Wind	500	500	315	206	145	107	82	65	53	44	37	31	27	23	20	18
	Live	500	500	315	206	145	107	82	65	53	44	37	31	27	23	20	18
	Deflection (L/180)	500	500	500	500	418	263	176	123	90	67	52	41	32	26	22	18
	Deflection (L/240)	500	500	500	500	313	197	132	92	67	50	39	30	24	20	16	13
4 Span	Positive Wind	500	500	296	193	136	100	77	61	49	41	34	29	25	22	19	17
	Live	500	500	296	193	136	100	77	61	49	41	34	29	25	22	19	17
	Deflection (L/180)	500	500	500	500	444	279	187	131	95	72	55	43	34	28	23	19
	Deflection (L/240)	500	500	500	500	333	209	140	98	71	54	41	32	26	21	17	14
ASTM E1592 Wind Uplift Testing		NO TEST DATA AVAILABLE															

Notes:

1. Allowable uniform loads are based upon equal span lengths.
2. Positive Wind is wind pressure and is **NOT** increased by 33 1/3 %.
3. Live is the allowable live or snow load.
4. Deflection (L/180) is the allowable load that limits the panel's deflection to L/180 while under positive or live load.
5. Deflection (L/240) is the allowable load that limits the panel's deflection to L/240 while under positive or live load.
6. The weight of the panel has **NOT** been deducted from the allowable loads.
7. Positive wind and Live load values are limited to combined shear & bending using Eq. C3.3.1-1 of the AISI Specification.
8. Values of ASTM E1592 Wind Uplift Testing include a factor of safety of 2.0. Shaded areas are outside of test range. Contact McElroy Metal for more information.
9. Positive Wind and Live Load values are limited by web crippling using a bearing length of 2".
10. Web crippling values are determined using a ratio of the uniform load **actually** supported by the top flanges of the section.
11. Load Tables are limited to a maximum allowable load of 500 psf.