Maxima 1.5 18"

(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.
24	50.0	1.15	0.6920	194.60	297.70	0.0590	0.0429	1.2840	0.0290	0.0376	1.0610

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

Allowable Uniform Loads (PSF)

		Span in Feet															
Span Type	Load Type	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	380	214	136	95	69	53	42	34	28	23	20	17	15	13	11
	Live	500	380	214	136	95	69	53	42	34	28	23	20	17	15	13	11
	Deflection (L/180)	500	500	500	330	191	120	80	56	41	30	23	18	15	12	10	8
	Deflection (L/240)	500	500	483	247	143	90	60	42	30	23	17	14	11	9	7	6
2 Span	Positive Wind	500	289	168	109	76	56	43	34	28	23	19	16	14	12	11	9
	Live	500	289	168	109	76	56	43	34	28	23	19	16	14	12	11	9
	Deflection (L/180)	500	500	500	500	343	216	144	101	74	55	42	33	27	21	18	15
	Deflection (L/240)	500	500	500	444	257	162	108	76	55	41	32	25	20	16	13	11
3 Span	Positive Wind	500	349	206	135	95	70	54	43	34	28	24	20	17	15	13	12
	Live	500	349	206	135	95	70	54	43	34	28	24	20	17	15	13	12
	Deflection (L/180)	500	500	500	464	268	169	113	79	58	43	33	26	21	17	14	11
	Deflection (L/240)	500	500	500	348	201	126	85	59	43	32	25	19	15	12	10	8
4 Span	Positive Wind	500	330	193	126	89	65	50	40	32	27	22	19	16	14	12	11
	Live	500	330	193	126	89	65	50	40	32	27	22	19	16	14	12	11
	Deflection (L/180)	500	500	500	493	285	179	120	84	61	46	35	28	22	18	15	12
	Deflection (L/240)	500	500	500	369	214	134	90	63	46	34	26	21	16	13	11	9
ASTM E1592 Wind Uplift Testing		171.6	150.9	130.2	117.8	105.3	92.9	80.5	68.0	55.6							

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 1.67. 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.