McELROY METAL
CORPORATE OFFICE • P.O. BOX 1148 • SHREVEPORT, LA 71163-1148 • (318) 747-8000 • FAX (318) 747-8029

TECHNICAL BULLETIN

Issue Date : June 9, 2011 **No. 07-318-11**

Maxima 212

(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	1.42	1.0310	159.30	455.20	0.2187	0.1383	4.1400	0.1128	0.1006	3.0130

1. Section properties are calculated in accordance with the 2007 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	500	500	441	306	225	172	136	110	91	76	65	56	49	43	38
	Live	500	500	500	441	306	225	172	136	110	91	76	65	56	49	43	38
	Deflection (L/180)	500	500	500	500	500	445	298	209	152	114	88	69	55	45	37	31
	Deflection (L/240)	500	500	500	500	500	334	224	157	114	86	66	52	41	33	28	23
2 Span	Positive Wind	500	500	428	288	206	154	120	95	78	64	54	46	40	35	31	27
	Live	500	500	428	288	206	154	120	95	78	64	54	46	40	35	31	27
	Deflection (L/180)	500	500	500	500	500	500	500	382	279	209	161	127	101	82	68	56
	Deflection (L/240)	500	500	500	500	500	500	408	287	209	157	121	95	76	62	51	42
3 Span	Positive Wind	500	500	500	346	250	189	147	117	96	80	67	57	50	43	38	34
	Live	500	500	500	346	250	189	147	117	96	80	67	57	50	43	38	34
	Deflection (L/180)	500	500	500	500	500	500	427	300	218	164	126	99	79	64	53	44
	Deflection (L/240)	500	500	500	500	500	478	320	225	164	123	94	74	59	48	40	33
4 Span	Positive Wind	500	500	482	328	236	177	138	110	90	75	63	54	46	40	36	32
	Live	500	500	482	328	236	177	138	110	90	75	63	54	46	40	36	32
	Deflection (L/180)	500	500	500	500	500	500	453	318	232	174	134	105	84	68	56	47
	Deflection (L/240)	500	500	500	500	500	500	340	238	174	130	100	79	63	51	42	35
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.