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TECHNICAL BULLETIN

Issue Date : June 9, 2011 **No. 07-319-11**

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.
22	50.0	1.85	1.7630	260.60	746.00	0.2958	0.1886	5.6450	0.1536	0.1416	4.2400

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	500	418	307	235	185	150	124	104	89	76	66	58	52
	Live	500	500	500	500	418	307	235	185	150	124	104	89	76	66	58	52
	Deflection (L/180)	500	500	500	500	500	500	403	283	206	155	119	94	75	61	50	42
	Deflection (L/240)	500	500	500	500	500	452	302	212	155	116	89	70	56	45	37	31
2 Span	Positive Wind	500	500	500	419	297	221	171	136	110	91	77	66	57	49	43	38
	Live	500	500	500	419	297	221	171	136	110	91	77	66	57	49	43	38
	Deflection (L/180)	500	500	500	500	500	500	500	500	378	284	219	172	137	112	92	77
	Deflection (L/240)	500	500	500	500	500	500	500	389	283	213	164	129	103	84	69	57
3 Span	Positive Wind	500	500	500	500	364	272	211	168	137	114	96	82	71	62	54	48
	Live	500	500	500	500	364	272	211	168	137	114	96	82	71	62	54	48
	Deflection (L/180)	500	500	500	500	500	500	500	406	296	222	171	134	108	87	72	60
	Deflection (L/240)	500	500	500	500	500	500	434	305	222	167	128	101	81	65	54	45
4 Span	Positive Wind	500	500	500	480	342	256	198	157	128	106	90	76	66	57	51	45
	Live	500	500	500	480	342	256	198	157	128	106	90	76	66	57	51	45
	Deflection (L/180)	500	500	500	500	500	500	500	431	314	236	182	143	114	93	76	64
	Deflection (L/240)	500	500	500	500	500	500	461	323	236	177	136	107	86	69	57	48
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.