



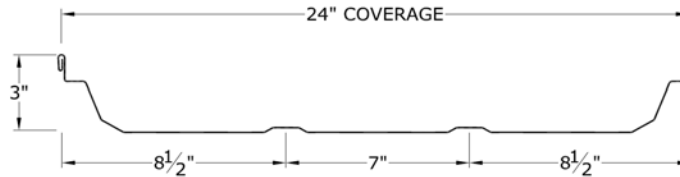
TECHNICAL BULLETIN

Issue Date : January 24, 2007

No. 07-295-07

MasterLok-FS

Bare Galvalume & Painted Galvalume



SECTION PROPERTIES				TOP IN COMPRESSION			BOTTOM IN COMPRESSION		
GAUGE	FY (KSI)	WEIGHT (PSF)	V _a kip/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	1.53	1.2510	0.3970	0.1603	4.8000	0.2050	0.1464	3.6600

- Section properties are calculated with the 2001 AISI North American Specification for the Design of Cold-Formed Steel Structural Members.
- V_a is the allowable shear.
- I_x is for deflection determination.
- S_e is for bending.
- M_a is the allowable bending moment.
- 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	500	500	355	261	200	158	128	105	88	75	65	56	50	44
	Live	500	500	500	500	355	261	200	158	128	105	88	75	65	56	50	44
	Deflection (L/180)	500	500	500	500	500	500	500	380	277	208	160	126	101	82	67	56
	Deflection (L/240)	500	500	500	500	500	500	406	285	208	156	120	94	75	61	50	42
2 Span	Positive Wind	500	500	500	350	251	188	145	116	94	78	66	56	49	42	37	33
	Live	500	500	500	350	251	188	145	116	94	78	66	56	49	42	37	33
	Deflection (L/180)	500	500	500	500	500	500	500	500	500	380	293	230	184	150	123	103
	Deflection (L/240)	500	500	500	500	500	500	500	500	380	285	220	173	138	112	92	77
3 Span	Positive Wind	500	500	500	421	304	229	179	143	117	97	82	70	60	53	46	41
	Live	500	500	500	421	304	229	179	143	117	97	82	70	60	53	46	41
	Deflection (L/180)	500	500	500	500	500	500	500	500	397	298	229	180	144	117	96	80
	Deflection (L/240)	500	500	500	500	500	500	500	408	297	223	172	135	108	88	72	60
4 Span	Positive Wind	500	500	500	398	287	216	168	134	109	91	77	65	56	49	43	38
	Live	500	500	500	398	287	216	168	134	109	91	77	65	56	49	43	38
	Deflection (L/180)	500	500	500	500	500	500	500	500	421	316	243	191	153	124	102	85
	Deflection (L/240)	500	500	500	500	500	500	500	433	316	237	182	143	115	93	77	64
ASTM E1592 Wind Uplift Testing		93	84	74	64	57	52	49	47	44							

Notes:

- Allowable uniform loads are based upon equal span lengths.
- Positive Wind is wind pressure and is **NOT** increased by 33 1/3 %.
- Live is the allowable live or snow load.
- Deflection (L/180) is the allowable load that limits the panel's deflection to L/180 while under positive or live load.
- Deflection (L/240) is the allowable load that limits the panel's deflection to L/240 while under positive or live load.
- The weight of the panel has **NOT** been deducted from the allowable loads.
- Positive wind and Live load values are limited to combined shear & bending using Eq. C3.3.1-1 of the AISI Specification.
- 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.
- Web Crippling has **NOT** been checked for this panel.
- Load Tables are limited to a maximum allowable load of 500 psf.

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