



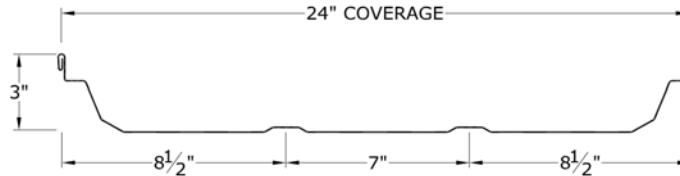
# TECHNICAL BULLETIN

Issue Date : January 24, 2007

No. 07-296-07

## MasterLok-FS

Bare Galvalume & Painted Galvalume



SECTION PROPERTIES				TOP IN COMPRESSION			BOTTOM IN COMPRESSION		
GAUGE	FY (KSI)	WEIGHT (PSF)	V <sub>a</sub> kip/ft.	I <sub>x</sub> (in. <sup>4</sup> /ft.)	S <sub>e</sub> (in. <sup>3</sup> /ft.)	M <sub>a</sub> kip-in./ft.	I <sub>x</sub> (in. <sup>4</sup> /ft.)	S <sub>e</sub> (in. <sup>3</sup> /ft.)	M <sub>a</sub> kip-in./ft.
24	50.0	1.18	0.8790	0.2970	0.1195	3.5760	0.1480	0.1023	2.7270

- Section properties are calculated with the 2001 AISI North American Specification for the Design of Cold-Formed Steel Structural Members.
- V<sub>a</sub> is the allowable shear.
- I<sub>x</sub> is for deflection determination.
- S<sub>e</sub> is for bending.
- M<sub>a</sub> 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	381	264	194	149	117	95	78	66	56	48	42	37	32
	Live	500	500	500	381	264	194	149	117	95	78	66	56	48	42	37	32
	Deflection (L/180)	500	500	500	500	500	500	405	284	207	156	120	94	75	61	50	42
	Deflection (L/240)	500	500	500	500	500	454	304	213	155	117	90	70	56	46	38	31
2 Span	Positive Wind	500	500	381	258	185	139	108	86	70	58	49	42	36	31	28	24
	Live	500	500	381	258	185	139	108	86	70	58	49	42	36	31	28	24
	Deflection (L/180)	500	500	500	500	500	500	500	374	281	216	170	136	111	91	76	63
	Deflection (L/240)	500	500	500	500	500	500	500	385	281	211	162	127	102	83	68	57
3 Span	Positive Wind	500	500	448	308	224	169	132	106	86	72	61	52	45	39	34	30
	Live	500	500	448	308	224	169	132	106	86	72	61	52	45	39	34	30
	Deflection (L/180)	500	500	500	500	500	500	500	402	293	220	169	133	106	86	71	59
	Deflection (L/240)	500	500	500	500	500	500	430	302	220	165	127	100	80	65	53	44
4 Span	Positive Wind	500	500	427	292	211	159	124	99	81	67	57	48	42	37	32	28
	Live	500	500	427	292	211	159	124	99	81	67	57	48	42	37	32	28
	Deflection (L/180)	500	500	500	500	500	500	500	427	311	234	180	141	113	92	76	63
	Deflection (L/240)	500	500	500	500	500	500	456	320	233	175	135	106	85	69	57	47
ASTM E1592 Wind Uplift Testing		70	61	53	45	39	35	32	30	28							

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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