



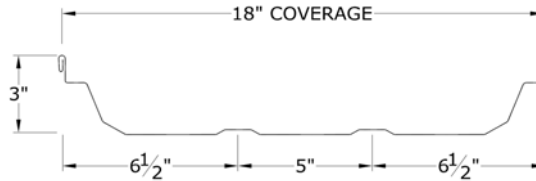
# TECHNICAL BULLETIN

Issue Date : January 24, 2007

No. 07-297-07

## MasterLok-FS 18"

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.
22	50.0	1.63	1.6680	0.4790	0.2062	6.1740	0.2750	0.1965	4.8820

- 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	500	457	336	257	203	164	136	114	97	84	73	64	56
	Live	500	500	500	500	457	336	257	203	164	136	114	97	84	73	64	56
	Deflection (L/180)	500	500	500	500	500	500	500	459	334	251	193	152	122	99	81	68
	Deflection (L/240)	500	500	500	500	500	500	490	344	251	188	145	114	91	74	61	51
2 Span	Positive Wind	500	500	500	468	335	250	194	155	126	105	88	75	65	57	50	44
	Live	500	500	500	468	335	250	194	155	126	105	88	75	65	57	50	44
	Deflection (L/180)	500	500	500	500	500	500	500	500	500	477	367	289	231	188	155	129
	Deflection (L/240)	500	500	500	500	500	500	500	500	476	357	275	216	173	141	116	96
3 Span	Positive Wind	500	500	500	500	406	306	238	191	156	129	109	93	81	70	62	55
	Live	500	500	500	500	406	306	238	191	156	129	109	93	81	70	62	55
	Deflection (L/180)	500	500	500	500	500	500	500	500	497	373	287	226	181	147	121	101
	Deflection (L/240)	500	500	500	500	500	500	500	500	373	280	215	169	135	110	91	75
4 Span	Positive Wind	500	500	500	500	383	288	224	179	146	121	102	87	76	66	58	51
	Live	500	500	500	500	383	288	224	179	146	121	102	87	76	66	58	51
	Deflection (L/180)	500	500	500	500	500	500	500	500	500	396	305	240	192	156	128	107
	Deflection (L/240)	500	500	500	500	500	500	500	500	396	297	229	180	144	117	96	80
ASTM E1592 Wind Uplift Testing		NO TEST DATA AVAILABLE															

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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