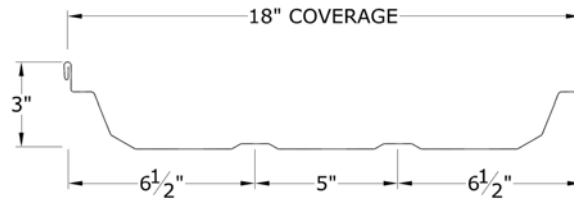




# MasterLok-FS 18"

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.)
24	50.0	1.26	1.1720	0.3590	0.1541	4.6150	0.1990	0.1376	3.6410

1. Section properties are calculated with the 2001 AISI North American Specification for the Design of Cold-Formed Steel Structural Members.
2. V<sub>a</sub> is the allowable shear.
3. I<sub>x</sub> is for deflection determination.
4. S<sub>e</sub> is for bending.
5. M<sub>a</sub> is the allowable bending moment.
6. 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	492	341	251	192	151	123	101	85	72	62	54	48	42
	Live	500	500	500	492	341	251	192	151	123	101	85	72	62	54	48	42
	Deflection (L/180)	500	500	500	500	500	500	490	344	251	188	145	114	91	74	61	51
	Deflection (L/240)	500	500	500	500	500	500	367	258	188	141	108	85	68	55	45	38
2 Span	Positive Wind	500	500	500	344	247	185	144	115	93	78	65	56	48	42	37	33
	Live	500	500	500	344	247	185	144	115	93	78	65	56	48	42	37	33
	Deflection (L/180)	500	500	500	500	500	500	500	500	469	353	271	213	171	139	114	95
	Deflection (L/240)	500	500	500	500	500	500	500	483	352	264	203	160	128	104	86	71
3 Span	Positive Wind	500	500	500	412	299	226	176	141	115	96	81	69	60	52	46	41
	Live	500	500	500	412	299	226	176	141	115	96	81	69	60	52	46	41
	Deflection (L/180)	500	500	500	500	500	500	500	500	368	276	213	167	134	109	89	74
	Deflection (L/240)	500	500	500	500	500	500	500	378	276	207	159	125	100	81	67	56
4 Span	Positive Wind	500	500	500	390	282	213	166	132	108	90	76	65	56	49	43	38
	Live	500	500	500	390	282	213	166	132	108	90	76	65	56	49	43	38
	Deflection (L/180)	500	500	500	500	500	500	500	500	390	293	226	177	142	115	95	79
	Deflection (L/240)	500	500	500	500	500	500	500	402	293	220	169	133	106	86	71	59
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. Web Crippling has **NOT** been checked for this panel.
10. Load Tables are limited to a maximum allowable load of 500 psf.