



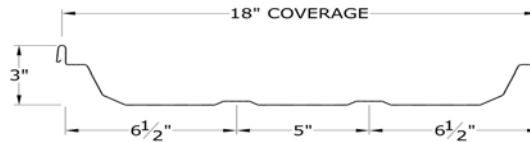
TECHNICAL BULLETIN

Issue Date : January 16, 2007

No. 07-274-07

MasterLok-90 18"

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	1.23	1.4650	0.4570	0.2032	6.0850	0.2560	0.1852	4.7390

- 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	450	331	253	200	162	134	112	96	82	72	63	56
	Live	500	500	500	500	450	331	253	200	162	134	112	96	82	72	63	56
	Deflection (L/180)	500	500	500	500	500	500	500	438	319	240	184	145	116	94	78	65
	Deflection (L/240)	500	500	500	500	500	500	468	328	239	180	138	109	87	71	58	48
2 Span	Positive Wind	500	500	500	444	320	240	187	149	122	101	85	73	63	55	48	43
	Live	500	500	500	444	320	240	187	149	122	101	85	73	63	55	48	43
	Deflection (L/180)	500	500	500	500	500	500	500	500	500	451	347	273	218	177	146	122
	Deflection (L/240)	500	500	500	500	500	500	500	500	450	338	260	204	164	133	109	91
3 Span	Positive Wind	500	500	500	500	386	292	228	183	150	125	105	90	78	68	60	53
	Live	500	500	500	500	386	292	228	183	150	125	105	90	78	68	60	53
	Deflection (L/180)	500	500	500	500	500	500	500	500	470	353	272	214	171	139	114	95
	Deflection (L/240)	500	500	500	500	500	500	500	483	352	265	204	160	128	104	86	71
4 Span	Positive Wind	500	500	500	500	364	275	215	172	141	117	99	84	73	64	56	50
	Live	500	500	500	500	364	275	215	172	141	117	99	84	73	64	56	50
	Deflection (L/180)	500	500	500	500	500	500	500	500	499	375	288	227	181	147	121	101
	Deflection (L/240)	500	500	500	500	500	500	500	500	374	281	216	170	136	110	91	76
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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