



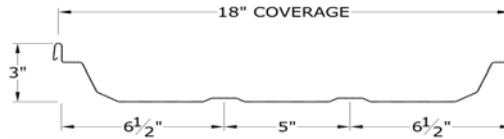
TECHNICAL BULLETIN

Issue Date : January 16, 2007

No. 07-276-07

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.
24	50.0	0.95	1.0570	0.3590	0.1550	4.6410	0.1930	0.1328	3.5750

- 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	495	343	252	193	152	123	102	85	73	63	55	48	42
	Live	500	500	500	495	343	252	193	152	123	102	85	73	63	55	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	487	332	239	180	140	112	91	76	64	55	47	41	36	32
	Live	500	500	487	332	239	180	140	112	91	76	64	55	47	41	36	32
	Deflection (L/180)	500	500	500	500	500	500	500	500	464	349	269	211	169	137	113	94
	Deflection (L/240)	500	500	500	500	500	500	500	478	348	261	201	158	127	103	85	70
3 Span	Positive Wind	500	500	500	394	288	218	171	137	112	94	79	68	59	51	45	40
	Live	500	500	500	394	288	218	171	137	112	94	79	68	59	51	45	40
	Deflection (L/180)	500	500	500	500	500	500	500	499	364	273	210	165	132	107	88	74
	Deflection (L/240)	500	500	500	500	500	500	500	374	273	205	158	124	99	80	66	55
4 Span	Positive Wind	500	500	500	374	272	206	161	129	105	88	74	63	55	48	42	37
	Live	500	500	500	374	272	206	161	129	105	88	74	63	55	48	42	37
	Deflection (L/180)	500	500	500	500	500	500	500	500	386	290	223	175	140	114	94	78
	Deflection (L/240)	500	500	500	500	500	500	500	397	289	217	167	131	105	85	70	59
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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