



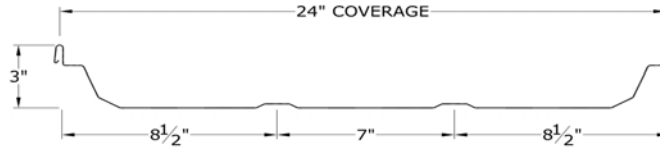
TECHNICAL BULLETIN

Issue Date : January 16, 2007

No. 07-273-07

MasterLok-90

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	1.54	1.0990	0.3810	0.1589	4.7600	0.1910	0.1380	3.5500

- 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	352	259	198	156	126	104	88	75	64	56	49	43
	Live	500	500	500	500	352	259	198	156	126	104	88	75	64	56	49	43
	Deflection (L/180)	500	500	500	500	500	500	500	365	266	200	154	121	97	78	65	54
	Deflection (L/240)	500	500	500	500	500	500	390	274	199	150	115	90	72	59	48	40
2 Span	Positive Wind	500	500	490	333	239	180	140	111	91	75	64	54	47	41	36	32
	Live	500	500	490	333	239	180	140	111	91	75	64	54	47	41	36	32
	Deflection (L/180)	500	500	500	500	500	500	500	481	361	278	219	175	142	117	98	
	Deflection (L/240)	500	500	500	500	500	500	500	495	361	271	209	164	131	107	88	73
3 Span	Positive Wind	500	500	500	397	289	219	171	137	112	93	79	67	58	51	45	40
	Live	500	500	500	397	289	219	171	137	112	93	79	67	58	51	45	40
	Deflection (L/180)	500	500	500	500	500	500	500	377	283	218	171	137	111	92	76	
	Deflection (L/240)	500	500	500	500	500	500	500	388	283	212	163	128	103	83	69	57
4 Span	Positive Wind	500	500	500	377	273	206	161	129	105	87	74	63	55	48	42	37
	Live	500	500	500	377	273	206	161	129	105	87	74	63	55	48	42	37
	Deflection (L/180)	500	500	500	500	500	500	500	400	300	231	182	145	118	97	81	
	Deflection (L/240)	500	500	500	500	500	500	500	412	300	225	173	136	109	89	73	61
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.

CORPORATE OFFICE
SHREVEPORT, LOUISIANA