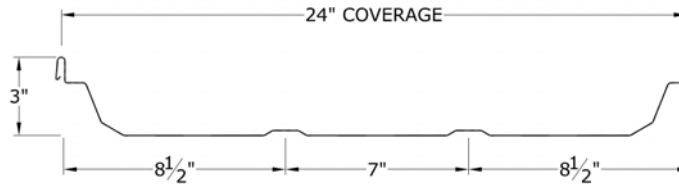




MasterLok-90

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.
24	50.0	1.19	0.7930	0.2980	0.1211	3.6260	0.1440	0.0987	2.6770

- 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	386	268	197	151	119	96	79	67	57	49	42	37	33
	Live	500	500	500	386	268	197	151	119	96	79	67	57	49	42	37	33
	Deflection (L/180)	500	500	500	500	500	500	406	285	208	156	120	94	75	61	50	42
	Deflection (L/240)	500	500	500	500	500	455	305	214	156	117	90	71	56	46	38	31
2 Span	Positive Wind	500	500	364	248	179	135	105	84	68	57	48	41	35	31	27	24
	Live	500	500	364	248	179	135	105	84	68	57	48	41	35	31	27	24
	Deflection (L/180)	500	500	500	500	500	500	500	500	372	279	215	169	135	110	90	75
	Deflection (L/240)	500	500	500	500	500	500	500	382	279	209	161	127	101	82	68	56
3 Span	Positive Wind	500	500	426	295	216	164	128	103	84	70	59	51	44	38	34	30
	Live	500	500	426	295	216	164	128	103	84	70	59	51	44	38	34	30
	Deflection (L/180)	500	500	500	500	500	500	500	400	291	219	168	132	106	86	71	59
	Deflection (L/240)	500	500	500	500	500	500	427	300	218	164	126	99	79	64	53	44
4 Span	Positive Wind	500	500	407	280	204	154	120	96	79	66	55	47	41	36	31	28
	Live	500	500	407	280	204	154	120	96	79	66	55	47	41	36	31	28
	Deflection (L/180)	500	500	500	500	500	500	500	424	309	232	179	140	112	91	75	63
	Deflection (L/240)	500	500	500	500	500	500	453	318	232	174	134	105	84	68	56	47
ASTM E1592 Wind Uplift Testing ⁸		46.8	43.6	40.3	37.1	33.8	32.5	31.2	29.9	28.6							
ASTM E1592 Wind Uplift Testing ¹¹		227.2	198.6	170.0	151.6	133.1	114.7	96.3	77.8	59.4							

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.
- S-5!® UD Clamps are located at clips location. Values of ASTM E1592 Wind Uplift Testing include a factor of safety of 1.67.