



MCP (McElroy Canopy Panel) 12"

(Bare Galvalume & Painted Galvalume)



SECTION PROPERTIES						TOP IN COMPRESSION			BOTTOM IN COMPRESSION		
GAUGE	FY (KSI)	WEIGHT (PSF)	V _a kip/ft.	P _{a,end} lbs/ft.	P _{a,int} lbs/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	1.58	0.7370	261.10	436.60	0.4776	0.2050	6.0510	0.2497	0.1490	4.4620

1. Section properties are calculated in accordance with the 2007 AISI North American Specification for the Design of Cold-Formed Steel Structural Members.
2. V_a is the allowable shear.
3. P_a is the allowable load for web crippling on end & interior supports.
4. I_x is for deflection determination.
5. S_e is for bending.
6. M_a is the allowable bending moment.
7. All values are for one foot of panel width.

Allowable Uniform Loads (PSF)

Span Type	Load Type	Span in Feet															
		4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50	8.00	8.50	9.00	9.50	10.00	10.50	11.00	11.50
Single	Positive Wind	252	199	161	133	112	95	82	71	63	55	49	44	40	36	33	30
	Negative Wind	185	146	118	98	82	70	60	52	46	41	36	32	29	26	24	22
	Live	252	199	161	133	112	95	82	71	63	55	49	44	40	36	33	30
	Deflection (L/180)	500	458	333	250	193	152	121	98	81	67	57	48	41	36	31	27
	Deflection (L/240)	489	343	250	188	144	114	91	74	61	50	42	36	31	27	23	20
2 Span	Positive Wind	157	128	106	89	76	65	57	50	44	39	35	31	28	26	23	21
	Negative Wind	191	158	133	113	97	84	73	65	57	51	46	42	38	34	31	29
	Live	157	128	106	89	76	65	57	50	44	39	35	31	28	26	23	21
	Deflection (L/180)	500	500	500	460	354	278	223	181	149	124	105	89	76	66	57	50
	Deflection (L/240)	500	500	459	345	265	209	167	136	112	93	78	66	57	49	43	37
3 Span	Positive Wind	185	152	127	107	92	79	69	61	54	48	43	39	35	32	29	27
	Negative Wind	219	183	155	133	115	100	88	78	70	62	56	51	46	42	38	35
	Live	185	152	127	107	92	79	69	61	54	48	43	39	35	32	29	27
	Deflection (L/180)	500	500	479	360	277	218	174	142	117	97	82	69	59	51	45	39
	Deflection (L/240)	500	493	359	270	208	163	131	106	87	73	61	52	44	38	33	29
4 Span	Positive Wind	176	144	120	101	87	75	65	57	51	45	40	36	33	30	27	25
	Negative Wind	211	176	148	127	109	95	84	74	66	59	53	48	43	40	36	33
	Live	176	144	120	101	87	75	65	57	51	45	40	36	33	30	27	25
	Deflection (L/180)	500	500	500	382	294	231	185	150	124	103	87	74	63	55	47	41
	Deflection (L/240)	500	500	382	287	221	173	139	113	93	77	65	55	47	41	35	31

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. Negative Wind is wind suction or uplift and is **NOT** increased by 33 1/3%.
4. Live is the allowable live or snow load.
5. Deflection (L/180) is the allowable load that limits the panel's deflection to L/180 while under positive or live load.
6. Deflection (L/240) is the allowable load that limits the panel's deflection to L/240 while under positive or live load.
7. The weight of the panel has **NOT** been deducted from the allowable loads.
8. Positive Wind, Negative Wind, and Live Load values are limited to combined shear & bending using Eq. C3.3.1-1 of the AISI Specification.
9. Load Tables are limited to a maximum allowable load of 500 psf.
10. Web crippling is not applicable.