



MCP (McElroy Canopy Panel) 16"

(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	1.42	0.5530	195.80	327.50	0.3750	0.1523	4.5610	0.1880	0.1121	3.3550

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	190	150	121	100	84	71	62	54	47	42	37	33	30	27	25	22
	Negative Wind	139	110	89	73	62	52	45	39	34	30	27	24	22	20	18	16
	Live	190	150	121	100	84	71	62	54	47	42	37	33	30	27	25	22
	Deflection (L/180)	500	359	262	197	151	119	95	77	64	53	44	38	32	28	24	21
	Deflection (L/240)	384	269	196	147	113	89	71	58	48	40	33	28	24	21	18	16
2 Span	Positive Wind	118	96	79	67	57	49	42	37	33	29	26	23	21	19	18	16
	Negative Wind	144	119	100	85	73	63	55	49	43	39	35	31	28	26	23	22
	Live	118	96	79	67	57	49	42	37	33	29	26	23	21	19	18	16
	Deflection (L/180)	500	500	474	356	274	215	172	140	115	96	81	69	59	51	44	38
	Deflection (L/240)	500	487	355	267	205	161	129	105	86	72	60	51	44	38	33	29
3 Span	Positive Wind	139	114	95	80	69	59	52	46	40	36	32	29	26	24	22	20
	Negative Wind	165	138	117	100	87	75	66	59	52	47	42	38	34	31	28	26
	Live	139	114	95	80	69	59	52	46	40	36	32	29	26	24	22	20
	Deflection (L/180)	500	500	371	279	214	169	135	110	90	75	63	54	46	40	34	30
	Deflection (L/240)	500	382	278	209	161	126	101	82	68	56	47	40	34	30	26	22
4 Span	Positive Wind	132	108	90	76	65	56	49	43	38	34	30	27	25	22	20	19
	Negative Wind	158	132	111	95	82	72	63	55	49	44	40	36	33	30	27	25
	Live	132	108	90	76	65	56	49	43	38	34	30	27	25	22	20	19
	Deflection (L/180)	500	500	394	296	228	179	143	116	96	80	67	57	49	42	37	32
	Deflection (L/240)	500	405	295	222	171	134	107	87	72	60	50	43	36	31	27	24

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.