



# MCP (McElroy Canopy Panel) 16"

(Bare Galvalume & Painted Galvalume)



SECTION PROPERTIES						TOP IN COMPRESSION			BOTTOM IN COMPRESSION		
GAUGE	FY (KSI)	WEIGHT (PSF)	V <sub>a</sub> kip/ft.	P <sub>a,end</sub> lbs/ft.	P <sub>a,int</sub> lbs/ft.	I <sub>x</sub> (in. <sup>4</sup> /ft.)	S <sub>e</sub> (in. <sup>3</sup> /ft.)	M <sub>a</sub> kip-in./ft.	I <sub>x</sub> (in. <sup>4</sup> /ft.)	S <sub>e</sub> (in. <sup>3</sup> /ft.)	M <sub>a</sub> kip-in./ft.
22	50.0	1.85	1.2410	324.20	540.10	0.5500	0.2298	6.8800	0.2670	0.1662	4.9760

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<sub>a</sub> is the allowable shear.
3. P<sub>a</sub> is the allowable load for web crippling on end & interior supports.
4. I<sub>x</sub> is for deflection determination.
5. S<sub>e</sub> is for bending.
6. M<sub>a</sub> 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	286	226	183	151	127	108	93	81	71	63	56	50	45	41	37	34
	Negative Wind	207	163	132	109	92	78	67	58	51	45	40	36	33	30	27	25
	Live	286	226	183	151	127	108	93	81	71	63	56	50	45	41	37	34
	Deflection (L/180)	500	500	384	288	222	175	140	113	93	78	65	56	48	41	36	31
	Deflection (L/240)	500	395	288	216	166	131	105	85	70	58	49	42	36	31	27	23
2 Span	Positive Wind	191	153	125	104	88	76	65	57	50	45	40	36	32	29	27	24
	Negative Wind	248	201	166	139	118	102	88	77	68	61	54	49	44	40	37	34
	Live	191	153	125	104	88	76	65	57	50	45	40	36	32	29	27	24
	Deflection (L/180)	500	500	500	500	398	313	250	203	167	140	117	100	86	74	64	56
	Deflection (L/240)	500	500	500	387	298	234	188	152	125	105	88	75	64	55	48	42
3 Span	Positive Wind	231	187	153	128	109	93	81	71	62	55	49	44	40	36	33	30
	Negative Wind	294	241	200	169	143	122	105	92	80	71	63	57	51	47	42	39
	Live	231	187	153	128	109	93	81	71	62	55	49	44	40	36	33	30
	Deflection (L/180)	500	500	500	404	311	245	196	159	131	109	92	78	67	58	50	44
	Deflection (L/240)	500	500	404	303	233	184	147	119	98	82	69	58	50	43	37	33
4 Span	Positive Wind	218	176	144	120	102	87	76	66	58	52	46	42	38	34	31	28
	Negative Wind	279	228	189	159	136	117	102	89	79	70	63	57	51	47	43	39
	Live	218	176	144	120	102	87	76	66	58	52	46	42	38	34	31	28
	Deflection (L/180)	500	500	500	429	331	260	208	169	139	116	98	83	71	61	53	47
	Deflection (L/240)	500	500	429	322	248	195	156	127	104	87	73	62	53	46	40	35

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.