



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.
22	50.0	2.05	1.6540	432.30	720.10	0.6706	0.2927	8.7620	0.3552	0.2210	6.6160

- Section properties are calculated in accordance with the 2007 AISI North American Specification for the Design of Cold-Formed Steel Structural Members.
- V_a is the allowable shear.
- P_a is the allowable load for web crippling on end & interior supports.
- 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															
		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	365	288	233	193	162	138	119	103	91	80	72	64	58	52	48	44
	Negative Wind	275	217	176	145	122	104	90	78	68	61	54	48	44	40	36	33
	Live	365	288	233	193	162	138	119	103	91	80	72	64	58	52	48	44
	Deflection (L/180)	500	500	468	352	271	213	170	138	114	95	80	68	58	50	44	38
	Deflection (L/240)	500	482	351	264	203	160	128	104	85	71	60	51	43	37	33	28
2 Span	Positive Wind	254	204	167	139	118	101	87	76	67	59	53	48	43	39	36	33
	Negative Wind	319	258	213	179	152	130	113	99	87	78	70	63	57	51	47	43
	Live	254	204	167	139	118	101	87	76	67	59	53	48	43	39	36	33
	Deflection (L/180)	500	500	500	500	499	393	314	255	210	175	148	125	107	93	81	71
	Deflection (L/240)	500	500	500	486	374	294	236	191	158	131	111	94	80	69	60	53
3 Span	Positive Wind	308	248	204	171	145	124	108	94	83	74	66	59	54	49	44	41
	Negative Wind	380	310	258	217	185	160	139	122	107	95	85	76	68	62	56	52
	Live	308	248	204	171	145	124	108	94	83	74	66	59	54	49	44	41
	Deflection (L/180)	500	500	500	500	391	308	246	200	165	137	116	98	84	73	63	55
	Deflection (L/240)	500	500	500	381	293	231	184	150	123	103	87	74	63	54	47	41
4 Span	Positive Wind	290	234	192	160	136	116	101	88	78	69	62	55	50	45	41	38
	Negative Wind	361	294	243	205	174	150	130	114	101	90	81	73	66	60	54	50
	Live	290	234	192	160	136	116	101	88	78	69	62	55	50	45	41	38
	Deflection (L/180)	500	500	500	500	415	327	261	212	175	146	123	104	89	77	67	59
	Deflection (L/240)	500	500	500	404	311	245	196	159	131	109	92	78	67	58	50	44

Notes:

- Allowable uniform loads are based upon equal span lengths.
- Positive Wind is wind pressure and is **NOT** increased by 33 1/3 %.
- Negative Wind is wind suction or uplift 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, Negative Wind, and Live Load values are limited to combined shear & bending using Eq. C3.3.1-1 of the AISI Specification.
- Load Tables are limited to a maximum allowable load of 500 psf.
- Web crippling is not applicable.