FW

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	1.30	0.8830	173.30	484.30	0.0454	0.0536	1.3410	0.0990	0.0821	2.4590

1. Section properties are calculated in accordance with the 2016 AISI North American Specification for the Design of Cold-Formed Steel Structural Members.
2. Va is the allowable shear.
3. Pa is the allowable load for web crippling on end & interior supports.
4. Ix is for deflection determination.
5. Se is for bending.
6. Ma is the allowable bending moment.
7. All values are for one foot of panel width.

Allowable Uniform Loads (PSF)

		Span in Feet															
Span Type	Load Type	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	346	231	173	138	99	72	55	44	35	29	24	21	18	15	13	12
	Live	346	231	173	138	99	72	55	44	35	29	24	21	18	15	13	12
	Deflection (L/180)	500	500	496	253	146	92	62	43	31	23	18	14	11	9	7	6
	Deflection (L/240)	500	500	372	190	110	69	46	32	23	17	13	10	8	7	5	4
2 Span	Positive Wind	387	258	193	154	129	110	96	78	63	52	44	37	32	28	24	21
	Live	387	258	193	154	129	110	96	78	63	52	44	37	32	28	24	21
	Deflection (L/180)	500	500	500	500	500	354	237	166	121	91	70	55	44	36	29	24
	Deflection (L/240)	500	500	500	500	422	265	178	125	91	68	52	41	33	27	22	18
3 Span	Positive Wind	433	288	216	173	144	114	87	68	55	46	38	33	28	24	21	19
	Live	433	288	216	173	144	114	87	68	55	46	38	33	28	24	21	19
	Deflection (L/180)	500	500	500	500	441	277	186	130	95	71	55	43	34	28	23	19
	Deflection (L/240)	500	500	500	500	330	208	139	98	71	53	41	32	26	21	17	14
4 Span	Positive Wind	423	282	211	169	141	118	90	71	57	47	40	34	29	25	22	20
	Live	423	282	211	169	141	118	90	71	57	47	40	34	29	25	22	20
	Deflection (L/180)	500	500	500	500	468	294	197	138	101	75	58	46	36	29	24	20
	Deflection (L/240)	500	500	500	500	351	221	148	104	75	56	43	34	27	22	18	15
ASTM E1592 Wind Uplift Testing[11]		88.4	82.7	77.1	71.4	65.8	60.1	54.5	48.8	43.1							

Notes:
1. Allowable uniform loads are based upon equal span lengths.
2. Live is the allowable live or snow load.
3. Deflection (L/180) is the allowable load that limits the panel's deflection to L/180 while under positive or live load.
4. Deflection (L/240) is the allowable load that limits the panel's deflection to L/240 while under positive or live load.
5. The weight of the panel has **NOT** been deducted from the allowable loads.
6. Positive wind and Live load values are limited to combined shear & bending using Eq. F2.1-2 of the AISI Specification.
7. 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.
8. Positive Wind and Live Load values are limited by web crippling using a bearing length of 1.5".
9. Web crippling values are determined using a ratio of the uniform load **actually** supported by the top flanges of the section.
10. Load Tables are limited to a maximum allowable load of 500 psf.
11. ASTM E1592 testing based on panel ribs stitched together w/ 1/4-14 x 7/8" Lap Tek @ 24" O.C.