



PF 1.5 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	1.18	0.7790	218.90	335.00	0.0659	0.0483	1.4470	0.0320	0.0422	1.1930

1. Section properties are calculated in accordance with the 2001 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															
		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	500	428	241	154	107	78	60	47	38	31	26	22	19	17	15	13
	Live	500	428	241	154	107	78	60	47	38	31	26	22	19	17	15	13
	Deflection (L/180)	500	500	500	368	213	134	90	63	46	34	26	20	16	13	11	9
	Deflection (L/240)	500	500	500	276	160	100	67	47	34	25	20	15	12	10	8	7
2 Span	Positive Wind	500	325	189	123	86	63	49	38	31	26	21	18	16	14	12	10
	Live	500	325	189	123	86	63	49	38	31	26	21	18	16	14	12	10
	Deflection (L/180)	500	500	500	500	381	240	161	113	82	61	47	37	30	24	20	16
	Deflection (L/240)	500	500	500	494	286	180	120	84	61	46	35	28	22	18	15	12
3 Span	Positive Wind	500	393	232	152	107	79	61	48	39	32	27	23	20	17	15	13
	Live	500	393	232	152	107	79	61	48	39	32	27	23	20	17	15	13
	Deflection (L/180)	500	500	500	500	299	188	126	88	64	48	37	29	23	19	15	13
	Deflection (L/240)	500	500	500	387	224	141	94	66	48	36	28	22	17	14	11	9
4 Span	Positive Wind	500	371	218	142	100	74	57	45	36	30	25	21	18	16	14	12
	Live	500	371	218	142	100	74	57	45	36	30	25	21	18	16	14	12
	Deflection (L/180)	500	500	500	500	317	199	133	94	68	51	39	31	24	20	16	13
	Deflection (L/240)	500	500	500	411	238	149	100	70	51	38	29	23	18	15	12	10
ASTM E1592 Wind Uplift Testing		161.9	148.7	135.5	122.2	109.0	97.6	86.2	74.7	63.3							

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. Live is the allowable live or snow load.
4. Deflection (L/180) is the allowable load that limits the panel's deflection to L/180 while under positive or live load.
5. Deflection (L/240) is the allowable load that limits the panel's deflection to L/240 while under positive or live load.
6. The weight of the panel has NOT been deducted from the allowable loads.
7. Positive wind and Live load values are limited to combined shear & bending using Eq. C3.3.1-1 of the AISI Specification.
8. Values of ASTM E1592 Wind Uplift Testing include a factor of safety of 1.71. Shaded areas are outside of test range. Contact Proform Metals LTD for more information.
9. Positive Wind and Live Load values are limited by web crippling using a bearing length of 2".
10. Web crippling values are determined using a ratio of the uniform load actually supported by the top flanges of the section.
11. Load Tables are limited to a maximum allowable load of 500 psf.