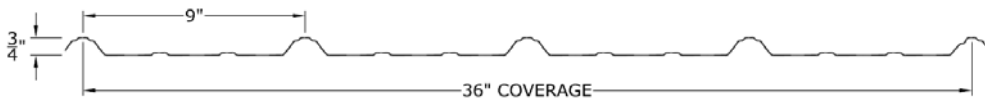




PR-9-36

(G100 Galvanized & 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.
29	80.0	0.69	0.4160	193.50	253.70	0.0100	0.0172	0.6170	0.0060	0.0173	0.5100

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															
		1.50	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	9.00
Single	Positive Wind	182	102	65	45	33	25	20	16	13	11	9	8	7	6	5	5
	Negative Wind	151	85	54	37	27	21	16	13	11	9	8	6	6	5	4	4
	Live	182	102	65	45	33	25	20	16	13	11	9	8	7	6	5	5
	Deflection (L/180)	258	109	55	32	20	13	9	6	5	4	3	2	2	1	1	1
	Deflection (L/240)	194	81	41	24	15	10	7	5	3	3	2	1	1	1	1	0
2 Span	Positive Wind	143	82	53	37	27	21	16	13	11	9	8	6	6	5	4	4
	Negative Wind	169	98	63	44	33	25	20	16	13	11	9	8	7	6	5	5
	Live	143	82	53	37	27	21	16	13	11	9	8	6	6	5	4	4
	Deflection (L/180)	499	210	107	62	39	26	18	13	10	7	6	4	3	3	2	2
	Deflection (L/240)	374	157	80	46	29	19	13	10	7	5	4	3	2	2	2	1
3 Span	Positive Wind	174	101	66	46	34	26	20	16	13	11	10	8	7	6	5	5
	Negative Wind	204	120	78	55	41	31	25	20	16	14	12	10	9	7	7	6
	Live	174	101	66	46	34	26	20	16	13	11	10	8	7	6	5	5
	Deflection (L/180)	390	164	84	48	30	20	14	10	7	6	4	3	3	2	2	1
	Deflection (L/240)	293	123	63	36	23	15	10	7	5	4	3	2	2	1	1	1
4 Span	Positive Wind	164	95	61	43	31	24	19	15	13	10	9	8	7	6	5	4
	Negative Wind	193	113	73	51	38	29	23	19	15	13	11	9	8	7	6	5
	Live	164	95	61	43	31	24	19	15	13	10	9	8	7	6	5	4
	Deflection (L/180)	415	175	89	51	32	21	15	11	8	6	5	4	3	2	2	1
	Deflection (L/240)	311	131	67	38	24	16	11	8	6	4	3	3	2	2	1	1

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. 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.