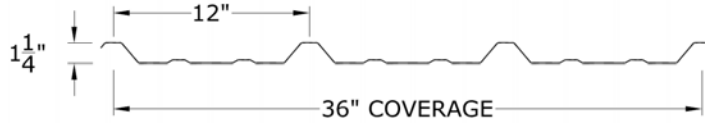




R-Panel

(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	0.70	0.2533	111.70	170.10	0.0270	0.0262	0.9410	0.0237	0.0387	1.2887

1. Section properties are calculated in accordance with the 2004 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	278	156	100	69	51	39	30	25	20	17	14	12	11	9	8	7
	Negative Wind	337	214	137	95	70	53	42	34	28	23	20	17	15	13	11	10
	Live	278	156	100	69	51	39	30	25	20	17	14	12	11	9	8	7
	Deflection (L/180)	500	295	151	87	55	36	25	18	14	10	8	6	5	4	3	3
	Deflection (L/240)	500	221	113	65	41	27	19	14	10	8	6	5	4	3	2	2
2 Span	Positive Wind	220	147	104	77	59	47	38	31	26	22	19	16	14	12	11	10
	Negative Wind	194	124	85	61	46	36	29	23	19	16	14	12	10	9	8	7
	Live	220	147	104	77	59	47	38	31	26	22	19	16	14	12	11	10
	Deflection (L/180)	500	500	341	197	124	83	58	42	32	24	19	15	12	10	8	7
	Deflection (L/240)	500	500	256	148	93	62	43	32	24	18	14	11	9	7	6	5
3 Span	Positive Wind	242	165	120	91	70	56	46	38	32	27	23	20	17	15	13	12
	Negative Wind	218	143	100	74	56	44	35	29	24	20	17	15	13	11	10	9
	Live	242	165	120	91	70	56	46	38	32	27	23	20	17	15	13	12
	Deflection (L/180)	500	500	267	154	97	65	45	33	25	19	15	12	9	8	6	5
	Deflection (L/240)	500	392	200	116	73	49	34	25	18	14	11	9	7	6	5	4
4 Span	Positive Wind	235	160	115	86	67	53	43	36	30	25	22	19	16	14	13	11
	Negative Wind	211	137	95	70	53	41	33	27	23	19	16	14	12	11	9	8
	Live	235	160	115	86	67	53	43	36	30	25	22	19	16	14	13	11
	Deflection (L/180)	500	500	284	164	103	69	48	35	26	20	16	12	10	8	7	6
	Deflection (L/240)	500	416	213	123	77	52	36	26	20	15	12	9	7	6	5	4

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.