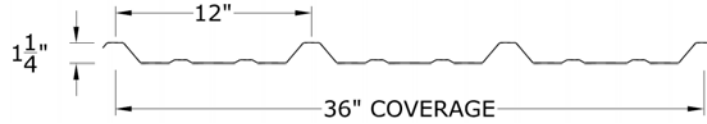




R-Panel

(Bare 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	0.67	0.2173	101.67	154.40	0.0247	0.0240	0.8623	0.0220	0.0362	1.2213

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	255	143	91	63	46	35	28	22	19	15	13	11	10	8	7	7
	Negative Wind	289	203	130	90	66	50	40	32	26	22	19	16	14	12	11	10
	Live	255	143	91	63	46	35	28	22	19	15	13	11	10	8	7	7
	Deflection (L/180)	500	269	138	79	50	33	23	17	12	9	7	6	5	4	3	2
	Deflection (L/240)	479	202	103	59	37	25	17	12	9	7	5	4	3	3	2	2
2 Span	Positive Wind	195	132	95	71	55	43	35	29	24	21	18	15	13	12	10	9
	Negative Wind	171	110	76	55	42	33	26	21	18	15	13	11	9	8	7	6
	Live	195	132	95	71	55	43	35	29	24	21	18	15	13	12	10	9
	Deflection (L/180)	500	500	314	182	114	76	53	39	29	22	17	14	11	9	8	6
	Deflection (L/240)	500	460	235	136	86	57	40	29	22	17	13	10	8	7	6	5
3 Span	Positive Wind	213	147	108	82	64	52	42	35	29	24	21	18	15	14	12	11
	Negative Wind	192	127	90	66	51	40	32	26	22	18	16	14	12	10	9	8
	Live	213	147	108	82	64	52	42	35	29	24	21	18	15	14	12	11
	Deflection (L/180)	500	481	246	142	89	60	42	30	23	17	14	11	9	7	6	5
	Deflection (L/240)	500	361	184	106	67	45	31	23	17	13	10	8	6	5	4	3
4 Span	Positive Wind	207	142	104	79	61	49	40	33	28	24	20	18	15	14	12	11
	Negative Wind	186	122	85	63	48	37	30	25	20	17	15	13	11	10	9	8
	Live	207	142	104	79	61	49	40	33	28	24	20	18	15	14	12	11
	Deflection (L/180)	500	500	261	151	95	63	44	32	24	18	14	11	9	7	6	5
	Deflection (L/240)	500	383	196	113	71	47	33	24	18	14	11	8	7	5	4	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.