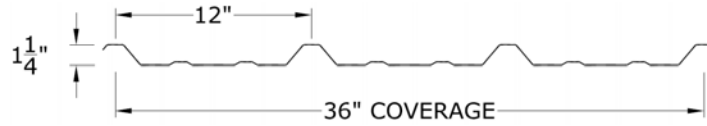




# R-Panel

(Painted Galvalume)



SECTION PROPERTIES						TOP IN COMPRESSION			BOTTOM IN COMPRESSION		
GAUGE	FY (KSI)	WEIGHT (PSF)	V <sub>a</sub> kip/ft.	P <sub>a,end</sub> lbs/ft.	P <sub>a,int</sub> lbs/ft.	I <sub>x</sub> (in. <sup>4</sup> /ft.)	S <sub>e</sub> (in. <sup>3</sup> /ft.)	M <sub>a</sub> kip-in./ft.	I <sub>x</sub> (in. <sup>4</sup> /ft.)	S <sub>e</sub> (in. <sup>3</sup> /ft.)	M <sub>a</sub> kip-in./ft.
26	80.0	0.87	0.4933	168.63	258.57	0.0383	0.0385	1.3850	0.0307	0.0525	1.6283

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<sub>a</sub> is the allowable shear.
3. P<sub>a</sub> is the allowable load for web crippling on end & interior supports.
4. I<sub>x</sub> is for deflection determination.
5. S<sub>e</sub> is for bending.
6. M<sub>a</sub> 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	410	230	147	102	75	57	45	36	30	25	21	18	16	14	12	11
	Negative Wind	482	271	173	120	88	67	53	43	35	30	25	22	19	16	15	13
	Live	410	230	147	102	75	57	45	36	30	25	21	18	16	14	12	11
	Deflection (L/180)	500	418	214	123	78	52	36	26	20	15	12	9	7	6	5	4
	Deflection (L/240)	500	313	160	92	58	39	27	20	15	11	9	7	5	4	4	3
2 Span	Positive Wind	355	223	152	109	82	64	51	41	34	29	25	21	18	16	14	13
	Negative Wind	323	199	133	95	71	55	44	35	29	25	21	18	16	14	12	11
	Live	355	223	152	109	82	64	51	41	34	29	25	21	18	16	14	13
	Deflection (L/180)	500	500	464	269	169	113	79	58	43	33	26	21	17	14	11	9
	Deflection (L/240)	500	500	348	201	127	85	59	43	32	25	19	15	12	10	8	7
3 Span	Positive Wind	405	261	181	132	100	78	62	51	42	36	31	26	23	20	18	16
	Negative Wind	374	236	161	116	87	68	54	44	36	31	26	23	20	17	15	14
	Live	405	261	181	132	100	78	62	51	42	36	31	26	23	20	18	16
	Deflection (L/180)	500	500	364	210	132	88	62	45	34	26	20	16	13	11	9	7
	Deflection (L/240)	500	500	273	158	99	66	46	34	25	19	15	12	10	8	6	5
4 Span	Positive Wind	390	249	171	124	94	73	59	48	40	34	29	25	22	19	17	15
	Negative Wind	358	224	152	109	82	63	51	41	34	29	24	21	18	16	14	13
	Live	390	249	171	124	94	73	59	48	40	34	29	25	22	19	17	15
	Deflection (L/180)	500	500	386	223	140	94	66	48	36	27	21	17	14	11	9	8
	Deflection (L/240)	500	500	289	167	105	70	49	36	27	20	16	13	10	8	7	6

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.