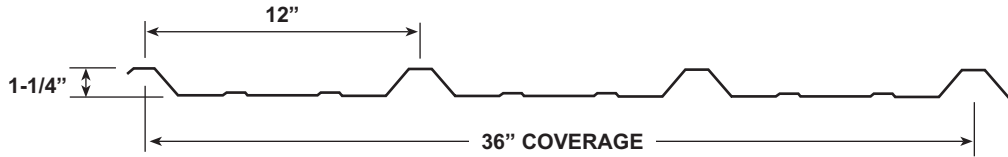


R - Panel



GAUGE	FY (KSI)	WEIGHT (PSF)	V _a kip/ft.	P _{a, end} lbs/ft.	P _{a, int} lbs/ft.	TOP IN COMPRESSION			BOTTOM IN COMPRESSION		
						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	1.14	0.9568	206.57	400.46	0.0563	0.0580	1.7367	0.0443	0.0835	1.7967

- Section properties are calculated in accordance with the 2001 AISI North American Specification for the Design of Cold-Formed Steel Structural Members.
- V_a is the allowable shear.
- P_a is the allowable load for web crippling on end & interior supports.
- I_x is for deflection determination.
- S_e is for bending.
- M_a is the allowable bending moment.
- 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	514	289	185	128	94	72	57	46	38	32	27	23	20	18	16	14
	Negative Wind	532	299	191	133	97	74	59	47	39	33	28	24	21	18	16	14
	Live	514	289	185	128	94	72	57	46	38	32	27	23	20	18	16	14
	Deflection (L/180)	1458	615	314	182	114	76	54	39	29	22	17	14	11	9	8	6
	Deflection (L/240)	1093	461	236	136	86	57	40	29	22	17	13	10	8	7	6	5
2 Span	Positive Wind	472	278	182	128	95	73	58	47	39	32	28	24	21	18	16	14
	Negative Wind	459	270	177	124	92	71	56	45	37	31	27	23	20	18	15	14
	Live	472	278	182	128	95	73	58	47	39	32	28	24	21	18	16	14
	Deflection (L/180)	3138	1323	677	392	247	165	116	84	63	49	38	30	25	20	17	14
	Deflection (L/240)	2353	992	508	294	185	124	87	63	47	36	28	23	18	15	12	10
3 Span	Positive Wind	564	338	224	158	118	91	72	58	48	41	35	30	26	23	20	18
	Negative Wind	550	329	217	153	114	88	70	56	47	39	33	29	25	22	19	17
	Live	564	338	224	158	118	91	72	58	48	41	35	30	26	23	20	18
	Deflection (L/180)	2458	1037	530	307	193	129	91	66	49	38	30	24	19	16	13	11
	Deflection (L/240)	1843	777	398	230	145	97	68	49	37	28	22	18	14	12	10	8
4 Span	Positive Wind	534	319	210	148	110	85	67	55	45	38	32	28	24	21	19	17
	Negative Wind	521	310	204	144	107	82	65	53	44	37	31	27	23	20	18	16
	Live	534	319	210	148	110	85	67	55	45	38	32	28	24	21	19	17
	Deflection (L/180)	2609	1100	563	326	205	137	96	70	52	40	32	25	20	17	14	12
	Deflection (L/240)	1957	825	422	244	154	103	72	52	39	30	24	19	15	12	10	9

Notes:

- Allowable uniform loads are based upon equal span lengths.
- Positive Wind is wind pressure and is **NOT** increased by 33 1/3 %.
- Negative Wind is wind suction or uplift and is **NOT** increased by 33 1/3%.
- Live is the allowable live or snow load.
- Deflection (L/180) is the allowable load that limits the panel's deflection to L/180 while under positive or live load.
- Deflection (L/240) is the allowable load that limits the panel's deflection to L/240 while under positive or live load.
- The weight of the panel has **NOT** been deducted from the allowable loads.
- Positive Wind, Negative Wind, and Live Load values are limited to combined shear & bending using Eq. C3.3.1-1 of the AISI Specification.
- Positive Wind and Live Load values are limited by web crippling using a bearing length of 2".
- Web crippling values are determined using a ratio of the uniform load **actually** supported by the top flanges of the section.