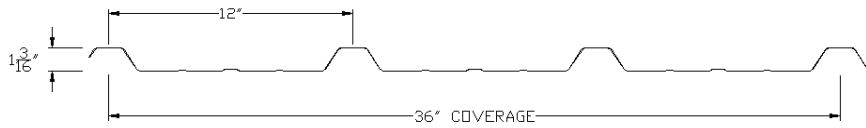




# Multi-Rib PB

Bare Galvalume & 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.
22	50.0	1.47	1.175	381.1	630.2	0.07	0.0842	2.52	0.04	0.0758	2.27

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<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	500	420	268	186	137	105	82	67	55	46	39	34	29	26	23	20
	Negative Wind	500	378	242	168	123	94	74	60	50	42	35	30	26	23	20	18
	Live	500	420	268	186	137	105	82	67	55	46	39	34	29	26	23	20
	Deflection (L/180)	500	500	391	226	142	95	67	48	36	28	22	17	14	11	9	8
	Deflection (L/240)	500	500	293	169	107	71	50	36	27	21	16	13	10	8	7	6
2 Span	Positive Wind	500	350	230	162	120	92	73	59	49	41	35	30	26	23	20	18
	Negative Wind	500	383	253	178	132	102	81	66	54	46	39	34	29	26	23	20
	Live	500	350	230	162	120	92	73	59	49	41	35	30	26	23	20	18
	Deflection (L/180)	500	500	500	428	270	180	127	92	69	53	42	33	27	22	18	15
	Deflection (L/240)	500	500	500	321	202	135	95	69	52	40	31	25	20	16	14	11
3 Span	Positive Wind	500	425	282	200	148	114	91	74	61	51	44	38	33	29	26	23
	Negative Wind	500	462	308	219	163	126	100	82	68	57	49	42	36	32	28	25
	Live	500	425	282	200	148	114	91	74	61	51	44	38	33	29	26	23
	Deflection (L/180)	500	500	500	335	211	141	99	72	54	41	33	26	21	17	14	12
	Deflection (L/240)	500	500	435	251	158	106	74	54	40	31	24	19	16	13	11	9
4 Span	Positive Wind	500	401	265	187	139	107	85	69	57	48	41	35	31	27	24	21
	Negative Wind	500	437	290	206	153	118	94	76	63	53	45	39	34	30	26	24
	Live	500	401	265	187	139	107	85	69	57	48	41	35	31	27	24	21
	Deflection (L/180)	500	500	500	356	224	150	105	77	57	44	35	28	22	18	15	13
	Deflection (L/240)	500	500	462	267	168	112	79	57	43	33	26	21	17	14	11	9

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.