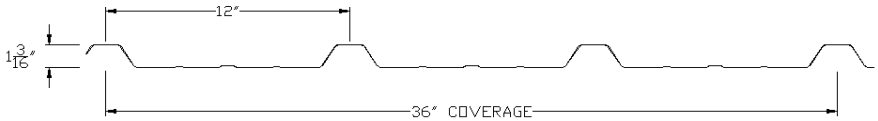
Multi-Rib PB

Bare Galvalume & 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	0.69	0.3160	107.30	135.43	0.0213	0.0219	0.6560	0.0150	0.0219	0.6557

1. Section properties are calculated in accordance with the 2024 ANSI/SDI AISI S100 NAS for the Design of Cold-Formed Steel Structural Members.
2. Va is the allowable shear.
3. Pa is the allowable load for web crippling on end & interior supports.
4. Ix is for deflection determination.
5. Se is for bending.
6. Ma is the allowable bending moment.
7. All values are for one foot of panel width.

Allowable Uniform Loads (PSF)

		Span in Feet															
Span Type	Load Type	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	194	109	69	48	35	27	21	17	14	12	10	8	7	6	6	5
	Negative Wind	194	109	69	48	35	27	21	17	14	12	10	8	7	6	6	5
	Live	194	109	69	48	35	27	21	17	14	12	10	8	7	6	6	5
	Deflection (L/180)	500	233	119	69	43	29	20	14	11	8	6	5	4	3	3	2
	Deflection (L/240)	414	174	89	51	32	21	15	11	8	6	5	4	3	2	2	1
2 Span	Positive Wind	168	100	66	46	34	26	21	17	14	12	10	8	7	6	6	5
	Negative Wind	168	100	66	46	34	26	21	17	14	12	10	8	7	6	6	5
	Live	168	100	66	46	34	26	21	17	14	12	10	8	7	6	6	5
	Deflection (L/180)	500	478	244	141	89	59	41	30	22	17	13	11	9	7	6	5
	Deflection (L/240)	500	358	183	106	66	44	31	22	17	13	10	8	6	5	4	3
3 Span	Positive Wind	199	121	80	57	42	33	26	21	17	14	12	11	9	8	7	6
	Negative Wind	199	121	80	57	42	33	26	21	17	14	12	11	9	8	7	6
	Live	199	121	80	57	42	33	26	21	17	14	12	11	9	8	7	6
	Deflection (L/180)	500	374	191	110	69	46	32	23	18	13	10	8	7	5	4	4
	Deflection (L/240)	500	280	143	83	52	35	24	17	13	10	8	6	5	4	3	3
4 Span (or more)	Positive Wind	189	114	75	53	40	30	24	20	16	13	11	10	8	7	7	6
	Negative Wind	189	114	76	53	40	30	24	20	16	13	11	10	8	7	7	6
	Live	189	114	75	53	40	30	24	20	16	13	11	10	8	7	7	6
	Deflection (L/180)	500	397	203	117	74	49	34	25	19	14	11	9	7	6	5	4
	Deflection (L/240)	500	298	152	88	55	37	26	19	14	11	8	6	5	4	3	3

Notes:

1. Allowable uniform loads are based upon equal span lengths.
2. Live is the allowable live or snow load.
3. Deflection (L/180) is the allowable load that limits the panel's deflection to L/180 while under positive or live load.
4. Deflection (L/240) is the allowable load that limits the panel's deflection to L/240 while under positive or live load.
5. The weight of the panel has **NOT** been deducted from the allowable loads.
6. Positive Wind, Negative Wind, and Live Load values are limited to combined shear & bending using Eq. H2-1 of the AISI Specification.
7. Positive Wind and Live Load values are limited by web crippling using a bearing length of 2".
8. Web crippling values are determined using a ratio of the uniform load **actually** supported by the top flanges of the section.
9. Load Tables are limited to a maximum allowable load of 500 psf.