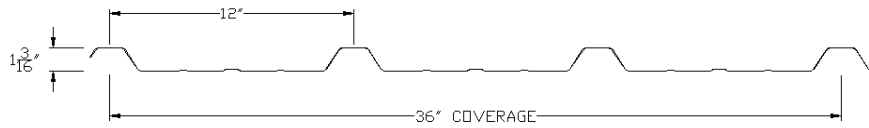




Multi-Rib PB

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.)
24	50.0	1.13	0.9013	274.1	374.2	0.051	0.057	1.414	0.031	0.050	1.257

1. Section properties are calculated in accordance with the 2016 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 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	418	235	150	104	76	58	46	37	31	26	22	19	16	14	13	11
	Negative Wind	372	209	134	93	68	52	41	33	27	23	19	17	14	13	11	10
	Live	418	235	150	104	76	58	46	37	31	26	22	19	16	14	13	11
	Deflection (L/180)	500	500	287	166	104	70	49	35	26	20	16	13	10	8	7	6
	Deflection (L/240)	500	420	215	124	78	52	36	26	20	15	12	9	7	6	5	4
2 Span	Positive Wind	347	201	130	91	67	51	41	33	27	23	19	17	14	13	11	10
	Negative Wind	384	223	145	102	75	58	46	37	30	26	22	19	16	14	13	11
	Live	347	201	130	91	67	51	41	33	27	23	19	17	14	13	11	10
	Deflection (L/180)	500	500	500	321	202	135	95	69	52	40	31	25	20	16	14	11
	Deflection (L/240)	500	500	416	240	151	101	71	52	39	30	23	18	15	12	10	8
3 Span	Positive Wind	422	247	161	113	83	64	51	41	34	28	24	21	18	16	14	12
	Negative Wind	463	274	179	126	93	72	57	46	38	32	27	23	20	18	16	14
	Live	422	247	161	113	83	64	51	41	34	28	24	21	18	16	14	12
	Deflection (L/180)	500	500	434	251	158	106	74	54	40	31	24	19	16	13	11	9
	Deflection (L/240)	500	500	325	188	118	79	55	40	30	23	18	14	12	9	8	6
4 Span	Positive Wind	397	232	151	106	78	60	47	38	32	26	23	19	17	15	13	12
	Negative Wind	438	257	168	118	87	67	53	43	36	30	25	22	19	17	15	13
	Live	397	232	151	106	78	60	47	38	32	26	23	19	17	15	13	12
	Deflection (L/180)	500	500	461	266	168	112	79	57	43	33	26	21	17	14	11	9
	Deflection (L/240)	500	500	345	200	126	84	59	43	32	25	19	15	12	10	8	7

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.