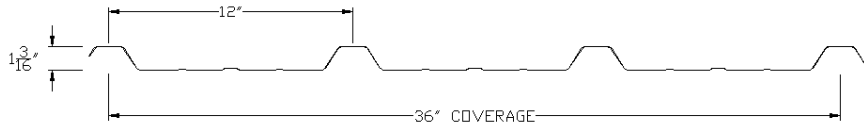




Multi-Rib PB

Bare & Painted



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.)
22	50.0	1.47	1.1750	447.70	630.23	0.0733	0.0839	2.0967	0.0433	0.0758	1.8867

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	500	349	223	155	114	87	69	55	46	38	33	28	24	21	19	17
	Negative Wind	500	314	201	139	102	78	62	50	41	34	29	25	22	19	17	15
	Live	500	349	223	155	114	87	69	55	46	38	33	28	24	21	19	17
	Deflection (L/180)	500	500	410	237	149	100	70	51	38	29	23	18	15	12	10	8
	Deflection (L/240)	500	500	307	178	112	75	52	38	28	22	17	14	11	9	7	6
2 Span	Positive Wind	500	298	194	136	100	77	61	49	41	34	29	25	22	19	17	15
	Negative Wind	500	327	214	150	111	85	68	55	45	38	32	28	24	21	19	17
	Live	500	298	194	136	100	77	61	49	41	34	29	25	22	19	17	15
	Deflection (L/180)	500	500	500	454	286	191	134	98	73	56	44	35	29	23	19	16
	Deflection (L/240)	500	500	500	341	214	143	101	73	55	42	33	26	21	17	14	12
3 Span	Positive Wind	500	364	239	168	125	96	76	62	51	43	36	31	27	24	21	19
	Negative Wind	500	398	263	186	138	106	84	68	57	48	40	35	30	27	24	21
	Live	500	364	239	168	125	96	76	62	51	43	36	31	27	24	21	19
	Deflection (L/180)	500	500	500	356	224	150	105	76	57	44	35	28	22	18	15	13
	Deflection (L/240)	500	500	461	267	168	112	79	57	43	33	26	21	17	14	11	9
4 Span	Positive Wind	500	343	224	158	117	90	71	58	48	40	34	29	25	22	20	18
	Negative Wind	500	375	247	174	129	99	79	64	53	44	38	33	28	25	22	20
	Live	500	343	224	158	117	90	71	58	48	40	34	29	25	22	20	18
	Deflection (L/180)	500	500	500	378	238	159	112	81	61	47	37	29	24	19	16	14
	Deflection (L/240)	500	500	490	283	178	119	84	61	46	35	27	22	18	14	12	10

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.