



Modern Rib

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.)
26	50.0	0.87	0.4213	177.53	258.53	0.0083	0.0130	0.3233	0.0083	0.0816	0.3900

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 Type	Load Type	Span in Feet															
		0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25	2.50	2.75	3.00	3.25	3.50	3.75	4.00
Single	Positive Wind	500	500	383	215	137	95	70	53	42	34	28	23	20	17	15	13
	Negative Wind	500	500	462	260	166	115	84	65	51	41	34	28	24	21	18	16
	Live	500	500	383	215	137	95	70	53	42	34	28	23	20	17	15	13
	Deflection (L/180)	500	500	500	500	372	215	135	91	63	46	35	26	21	16	13	11
	Deflection (L/240)	500	500	500	500	279	161	101	68	47	34	26	20	15	12	10	8
2 Span	Positive Wind	500	500	411	242	159	111	82	63	50	41	34	28	24	21	18	16
	Negative Wind	500	500	352	205	133	93	69	53	42	34	28	23	20	17	15	13
	Live	500	500	411	242	159	111	82	63	50	41	34	28	24	21	18	16
	Deflection (L/180)	500	500	500	500	500	500	327	219	154	112	84	64	51	40	33	27
	Deflection (L/240)	500	500	500	500	500	389	245	164	115	84	63	48	38	30	24	20
3 Span	Positive Wind	500	500	491	294	195	138	102	79	62	51	42	35	30	26	22	20
	Negative Wind	500	500	426	251	164	116	85	66	52	42	35	29	25	21	19	16
	Live	500	500	491	294	195	138	102	79	62	51	42	35	30	26	22	20
	Deflection (L/180)	500	500	500	500	500	407	256	171	120	87	66	50	40	32	26	21
	Deflection (L/240)	500	500	500	500	500	305	192	128	90	65	49	38	30	24	19	16
4 Span	Positive Wind	500	500	465	277	183	129	96	74	58	47	39	33	28	24	21	18
	Negative Wind	500	500	402	236	154	108	80	61	49	39	32	27	23	20	17	15
	Live	500	500	465	277	183	129	96	74	58	47	39	33	28	24	21	18
	Deflection (L/180)	500	500	500	500	500	432	272	182	128	93	70	54	42	34	27	22
	Deflection (L/240)	500	500	500	500	500	324	204	136	96	70	52	40	31	25	20	17

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.