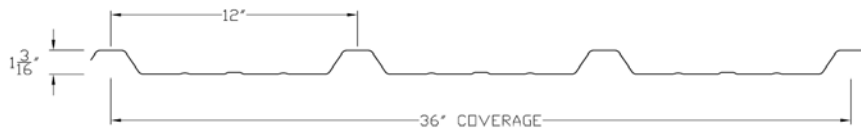




Multi-Rib

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.)
22	50.0	1.42	1.0073	383.73	540.20	0.0733	0.0825	2.0633	0.0433	0.0702	1.7533

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	343	220	152	112	85	67	55	45	38	32	28	24	21	19	16
	Negative Wind	500	292	187	129	95	73	57	46	38	32	27	23	20	18	16	14
	Live	500	343	220	152	112	85	67	55	45	38	32	28	24	21	19	16
	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	467	274	179	126	93	71	56	46	38	32	27	23	20	18	16	14
	Negative Wind	500	316	208	147	109	84	66	54	44	37	32	27	24	21	18	16
	Live	467	274	179	126	93	71	56	46	38	32	27	23	20	18	16	14
	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	334	220	155	115	89	70	57	47	40	34	29	25	22	20	17
	Negative Wind	500	382	254	180	134	104	82	67	55	47	40	34	30	26	23	21
	Live	500	334	220	155	115	89	70	57	47	40	34	29	25	22	20	17
	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	315	207	146	108	83	66	53	44	37	32	27	24	21	18	16
	Negative Wind	500	361	239	169	126	97	77	63	52	44	37	32	28	24	22	19
	Live	500	315	207	146	108	83	66	53	44	37	32	27	24	21	18	16
	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.