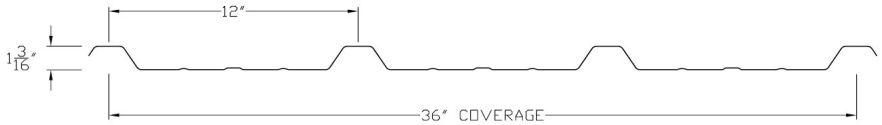
Multi-Rib

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	0.66	0.3160	107.30	135.43	0.0190	0.0189	0.5667	0.0140	0.0201	0.6043

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	167	94	60	41	30	23	18	15	12	10	8	7	6	5	5	4
	Negative Wind	179	100	64	44	32	25	19	16	13	11	9	8	7	6	5	4
	Live	167	94	60	41	30	23	18	15	12	10	8	7	6	5	5	4
	Deflection (L/180)	492	207	106	61	38	25	18	13	9	7	6	4	3	3	2	2
	Deflection (L/240)	369	155	79	46	29	19	13	9	7	5	4	3	2	2	2	1
2 Span	Positive Wind	158	93	61	43	32	24	19	15	13	11	9	8	7	6	5	4
	Negative Wind	150	88	57	40	30	23	18	14	12	10	8	7	6	5	5	4
	Live	158	93	61	43	32	24	19	15	13	11	9	8	7	6	5	4
	Deflection (L/180)	500	434	222	128	81	54	38	27	20	16	12	10	8	6	5	4
	Deflection (L/240)	500	325	166	96	60	40	28	20	15	12	9	7	6	5	4	3
3 Span	Positive Wind	188	113	75	53	39	30	24	19	16	13	11	10	8	7	6	6
	Negative Wind	180	107	71	50	37	28	22	18	15	12	11	9	8	7	6	5
	Live	188	113	75	53	39	30	24	19	16	13	11	10	8	7	6	6
	Deflection (L/180)	500	340	174	100	63	42	29	21	16	12	9	7	6	5	4	3
	Deflection (L/240)	500	255	130	75	47	31	22	16	12	9	7	5	4	3	3	2
4 Span (or more)	Positive Wind	178	107	70	50	37	28	22	18	15	12	11	9	8	7	6	5
	Negative Wind	170	101	66	47	34	26	21	17	14	12	10	8	7	6	6	5
	Live	178	107	70	50	37	28	22	18	15	12	11	9	8	7	6	5
	Deflection (L/180)	500	361	184	107	67	45	31	23	17	13	10	8	6	5	4	3
	Deflection (L/240)	500	270	138	80	50	33	23	17	13	10	7	6	5	4	3	2

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.