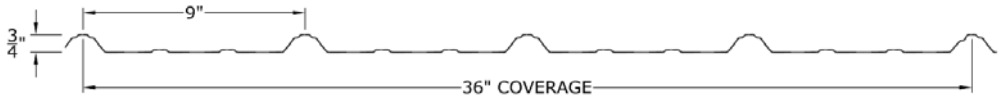
Max-Rib

(Bare 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	0.3990	178.90	233.60	0.0100	0.0165	0.5910	0.0050	0.0163	0.4870

1. Section properties are calculated in accordance with the 2001 AISI North American Specification 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	175	98	63	43	32	24	19	15	13	10	9	8	7	6	5	4
	Negative Wind	144	81	51	36	26	20	16	12	10	9	7	6	5	5	4	4
	Live	175	98	63	43	32	24	19	15	13	10	9	8	7	6	5	4
	Deflection (L/180)	258	109	55	32	20	13	9	6	5	4	3	2	2	1	1	1
	Deflection (L/240)	194	81	41	24	15	10	7	5	3	3	2	1	1	1	1	0
2 Span	Positive Wind	136	78	50	35	26	20	15	12	10	8	7	6	5	5	4	4
	Negative Wind	161	94	61	42	31	24	19	15	12	10	9	8	6	6	5	4
	Live	136	78	50	35	26	20	15	12	10	8	7	6	5	5	4	4
	Deflection (L/180)	467	197	101	58	36	24	17	12	9	7	5	4	3	3	2	2
	Deflection (L/240)	350	148	75	43	27	18	12	9	7	5	4	3	2	2	1	1
3 Span	Positive Wind	167	97	63	44	32	25	19	16	13	11	9	8	7	6	5	4
	Negative Wind	196	115	75	53	39	30	23	19	16	13	11	9	8	7	6	6
	Live	167	97	63	44	32	25	19	16	13	11	9	8	7	6	5	4
	Deflection (L/180)	366	154	79	45	28	19	13	9	7	5	4	3	2	2	2	1
	Deflection (L/240)	274	115	59	34	21	14	10	7	5	4	3	2	2	1	1	1
4 Span	Positive Wind	157	90	59	41	30	23	18	15	12	10	8	7	6	5	5	4
	Negative Wind	185	108	70	49	36	28	22	18	15	12	10	9	8	7	6	5
	Live	157	90	59	41	30	23	18	15	12	10	8	7	6	5	5	4
	Deflection (L/180)	389	164	84	48	30	20	14	10	7	6	4	3	3	2	2	1
	Deflection (L/240)	291	123	63	36	22	15	10	7	5	4	3	2	2	1	1	1

Notes:

1. Allowable uniform loads are based upon equal span lengths.
2. Positive Wind is wind pressure and is **NOT** increased by 33 1/3 %.
3. Negative Wind is wind suction or uplift and is **NOT** increased by 33 1/3%.
4. Live is the allowable live or snow load.
5. Deflection (L/180) is the allowable load that limits the panel's deflection to L/180 while under positive or live load.
6. Deflection (L/240) is the allowable load that limits the panel's deflection to L/240 while under positive or live load.
7. The weight of the panel has **NOT** been deducted from the allowable loads.
8. Positive Wind, Negative Wind, and Live Load values are limited to combined shear & bending using Eq. C3.3.1-1 of the AISI Specification.
9. Positive Wind and Live Load values are limited by web crippling using a bearing length of 2".
10. Web crippling values are determined using a ratio of the uniform load **actually** supported by the top flanges of the section.
11. Load Tables are limited to a maximum allowable load of 500 psf.