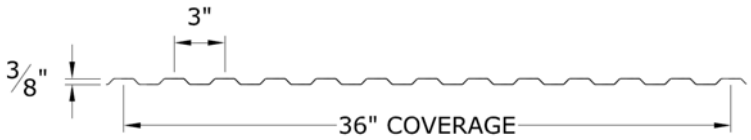
Mini-Rib

(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	0.67	0.7020	476.70	653.40	0.0030	0.0151	0.5430	0.0030	0.0145	0.5210

1. Section properties are calculated in accordance with the 2004 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	1.25	1.50	1.75	2.00	2.25	2.50	2.75	3.00	3.25	3.50	3.75	4.00	4.25	4.50	4.75	5.00
Single	Positive Wind	231	160	118	90	71	57	47	40	34	29	25	22	20	17	16	14
	Negative Wind	222	154	113	86	68	55	45	38	32	28	24	21	19	17	15	13
	Live	231	160	118	90	71	57	47	40	34	29	25	22	20	17	16	14
	Deflection (L/180)	134	77	48	32	23	16	12	9	7	6	4	4	3	2	2	2
	Deflection (L/240)	100	58	36	24	17	12	9	7	5	4	3	3	2	2	1	1
2 Span	Positive Wind	215	151	111	85	67	55	45	38	32	28	24	21	19	17	15	13
	Negative Wind	224	157	116	89	70	57	47	39	34	29	25	22	19	17	16	14
	Live	215	151	111	85	67	55	45	38	32	28	24	21	19	17	15	13
	Deflection (L/180)	323	187	117	78	55	40	30	23	18	14	11	9	8	6	5	5
	Deflection (L/240)	242	140	88	59	41	30	22	17	13	11	8	7	6	5	4	3
3 Span	Positive Wind	266	187	138	106	84	68	56	47	40	35	30	27	23	21	19	17
	Negative Wind	276	194	144	111	88	71	59	49	42	36	32	28	24	22	19	18
	Live	266	187	138	106	84	68	56	47	40	35	30	27	23	21	19	17
	Deflection (L/180)	253	146	92	61	43	31	23	18	14	11	9	7	6	5	4	3
	Deflection (L/240)	190	109	69	46	32	23	17	13	10	8	7	5	4	4	3	2
4 Span	Positive Wind	249	175	129	99	79	64	53	44	38	32	28	25	22	19	17	16
	Negative Wind	259	182	134	103	82	66	55	46	39	34	29	26	23	20	18	16
	Live	249	175	129	99	79	64	53	44	38	32	28	25	22	19	17	16
	Deflection (L/180)	268	155	98	65	46	33	25	19	15	12	9	8	6	5	4	4
	Deflection (L/240)	201	116	73	49	34	25	18	14	11	9	7	6	5	4	3	3

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.