

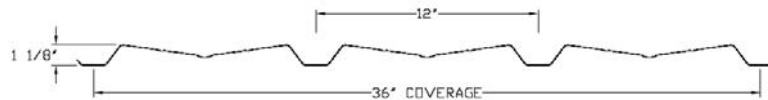


TECHNICAL BULLETIN

Issue Date : June 1, 2006

No. 07-240-06

Multi-V



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	80.0	0.88	0.5807	134.38	234.40	0.0233	0.0431	1.4067	0.0250	0.0368	1.3200

- Section properties are calculated in accordance with the 2001 AISI North American Specification for the Design of Cold-Formed Steel Structural Members.
- V_a is the allowable shear.
- P_a is the allowable load for web crippling on end & interior supports.
- I_x is for deflection determination.
- S_e is for bending.
- M_a is the allowable bending moment.
- All values are for one foot of panel width.

Allowable Uniform Loads (PSF)

Span Type	Load Type	Span in Feet															
		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	196	147	117	98	76	58	46	37	31	26	22	19	16	14	12	11
	Negative Wind	391	220	140	97	71	55	43	35	29	24	20	17	15	13	12	10
	Live	196	147	117	98	76	58	46	37	31	26	22	19	16	14	12	11
	Deflection (L/180)	603	254	130	75	47	31	22	16	12	9	7	5	4	3	3	2
	Deflection (L/240)	452	190	97	56	35	23	16	12	9	7	5	4	3	2	2	2
2 Span	Positive Wind	137	102	82	68	58	51	42	34	28	24	20	17	15	13	12	10
	Negative Wind	345	209	139	98	73	56	45	36	30	25	21	18	16	14	12	11
	Live	137	102	82	68	58	51	42	34	28	24	20	17	15	13	12	10
	Deflection (L/180)	1506	635	325	188	118	79	55	40	30	23	18	14	12	9	8	6
	Deflection (L/240)	1129	476	244	141	88	59	41	30	22	17	13	11	9	7	6	5
3 Span	Positive Wind	155	116	93	77	66	58	51	42	35	30	25	22	19	17	15	13
	Negative Wind	405	250	168	120	90	70	55	45	37	31	27	23	20	18	16	14
	Live	155	116	93	77	66	58	51	42	35	30	25	22	19	17	15	13
	Deflection (L/180)	1180	497	254	147	92	62	43	31	23	18	14	11	9	7	6	5
	Deflection (L/240)	885	373	191	110	69	46	32	23	17	13	10	8	7	5	4	4
4 Span	Positive Wind	149	112	89	74	64	56	49	40	33	28	23	20	18	15	14	12
	Negative Wind	386	237	159	113	84	65	52	42	35	29	25	22	19	16	15	13
	Live	149	112	89	74	64	56	49	40	33	28	23	20	18	15	14	12
	Deflection (L/180)	1252	528	270	156	98	66	46	33	25	19	15	12	10	8	6	5
	Deflection (L/240)	939	396	202	117	73	49	34	25	19	14	11	9	7	6	5	4

Notes:

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

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