

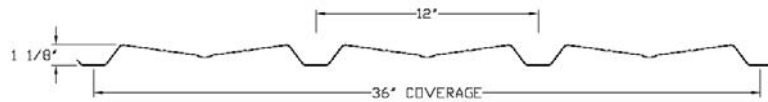


## TECHNICAL BULLETIN

Issue Date : June 1, 2006

No. 07-238-06

### Multi-V



SECTION PROPERTIES						TOP IN COMPRESSION			BOTTOM IN COMPRESSION		
GAUGE	FY (KSI)	WEIGHT (PSF)	V <sub>a</sub> kip/ft.	P <sub>a_end</sub> lbs/ft.	P <sub>a_int</sub> lbs/ft.	I <sub>x</sub> (in. <sup>4</sup> /ft.)	S <sub>e</sub> (in. <sup>3</sup> /ft.)	M <sub>a</sub> kip-in./ft.	I <sub>x</sub> (in. <sup>4</sup> /ft.)	S <sub>e</sub> (in. <sup>3</sup> /ft.)	M <sub>a</sub> kip-in./ft.
24	80.0	1.10	0.8994	223.01	376.51	0.0313	0.0598	1.8167	0.0333	0.0459	1.7800

- Section properties are calculated in accordance with the 2001 AISI North American Specification for the Design of Cold-Formed Steel Structural Members.
- V<sub>a</sub> is the allowable shear.
- P<sub>a</sub> is the allowable load for web crippling on end & interior supports.
- I<sub>x</sub> is for deflection determination.
- S<sub>e</sub> is for bending.
- M<sub>a</sub> 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	326	244	193	134	98	75	59	48	40	33	28	24	21	18	16	14
	Negative Wind	527	296	189	131	96	74	58	47	39	32	28	24	21	18	16	14
	Live	326	244	193	134	98	75	59	48	40	33	28	24	21	18	16	14
	Deflection (L/180)	810	341	175	101	63	42	30	21	16	12	9	7	6	5	4	3
	Deflection (L/240)	607	256	131	75	47	32	22	16	12	9	7	5	4	4	3	2
2 Span	Positive Wind	220	165	132	110	94	72	57	46	38	32	27	24	20	18	16	14
	Negative Wind	469	279	183	129	96	74	58	47	39	33	28	24	21	18	16	14
	Live	220	165	132	110	94	72	57	46	38	32	27	24	20	18	16	14
	Deflection (L/180)	2015	850	435	251	158	106	74	54	40	31	24	19	16	13	11	9
	Deflection (L/240)	1511	637	326	188	118	79	55	40	30	23	18	14	12	9	8	6
3 Span	Positive Wind	250	187	150	125	107	89	71	58	48	40	34	29	26	23	20	18
	Negative Wind	558	337	224	159	118	91	72	59	49	41	35	30	26	23	20	18
	Live	250	187	150	125	107	89	71	58	48	40	34	29	26	23	20	18
	Deflection (L/180)	1578	665	340	197	124	83	58	42	32	24	19	15	12	10	8	7
	Deflection (L/240)	1183	499	255	147	93	62	43	31	24	18	14	11	9	7	6	5
4 Span	Positive Wind	240	180	144	120	103	84	66	54	45	37	32	28	24	21	19	17
	Negative Wind	529	318	211	149	111	85	68	55	46	38	33	28	24	21	19	17
	Live	240	180	144	120	103	84	66	54	45	37	32	28	24	21	19	17
	Deflection (L/180)	1675	706	361	209	131	88	62	45	33	26	20	16	13	11	9	7
	Deflection (L/240)	1256	530	271	157	98	66	46	33	25	19	15	12	10	8	6	5

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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