

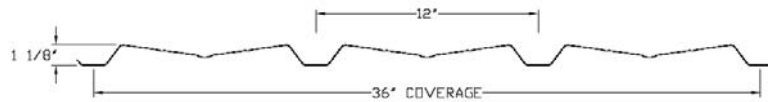


## TECHNICAL BULLETIN

Issue Date : June 1, 2006

No. 07-237-06

### 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	50.0	1.10	0.7495	185.84	313.76	0.0317	0.0616	1.5300	0.0340	0.0507	1.5200

- 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	271	203	163	113	83	63	50	40	33	28	24	20	18	15	14	12
	Negative Wind	450	253	162	112	82	63	50	40	33	28	23	20	18	15	14	12
	Live	271	203	163	113	83	63	50	40	33	28	24	20	18	15	14	12
	Deflection (L/180)	820	346	177	102	64	43	30	22	16	12	10	8	6	5	4	3
	Deflection (L/240)	615	259	132	76	48	32	22	16	12	9	7	6	4	4	3	2
2 Span	Positive Wind	183	137	110	91	78	61	49	39	33	27	23	20	17	15	13	12
	Negative Wind	394	234	154	109	80	62	49	40	33	28	23	20	18	15	14	12
	Live	183	137	110	91	78	61	49	39	33	27	23	20	17	15	13	12
	Deflection (L/180)	2049	864	442	256	161	108	75	55	41	32	25	20	16	13	11	9
	Deflection (L/240)	1537	648	331	192	120	81	56	41	31	24	18	15	12	10	8	7
3 Span	Positive Wind	208	156	125	104	89	76	61	49	41	34	29	25	22	19	17	15
	Negative Wind	468	283	188	134	99	77	61	49	41	34	29	25	22	19	17	15
	Live	208	156	125	104	89	76	61	49	41	34	29	25	22	19	17	15
	Deflection (L/180)	1605	677	346	200	126	84	59	43	32	25	19	15	12	10	8	7
	Deflection (L/240)	1204	507	260	150	94	63	44	32	24	18	14	11	9	7	6	5
4 Span	Positive Wind	200	150	120	100	86	71	57	46	38	32	27	23	20	18	16	14
	Negative Wind	444	268	177	125	93	72	57	46	38	32	27	24	20	18	16	14
	Live	200	150	120	100	86	71	57	46	38	32	27	23	20	18	16	14
	Deflection (L/180)	1704	718	368	213	134	89	63	46	34	26	20	16	13	11	9	7
	Deflection (L/240)	1278	539	276	159	100	67	47	34	25	19	15	12	10	8	7	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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