

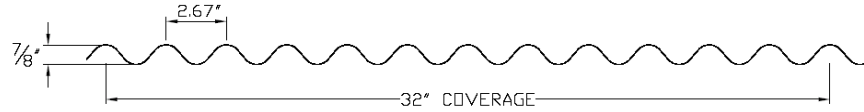


# TECHNICAL BULLETIN

Issue Date : June 1, 2006

No. 07-227-06

## Multi-Cor



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	1.29	2.0319	920.69	1195.06	0.0345	0.0764	2.7413	0.0345	0.0764	2.7413

- 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	812	456	292	203	149	114	90	73	60	50	43	37	32	28	25	22
	Negative Wind	812	456	292	203	149	114	90	73	60	50	43	37	32	28	25	22
	Live	812	456	292	203	149	114	90	73	60	50	43	37	32	28	25	22
	Deflection (L/180)	893	376	192	111	70	47	33	24	18	13	10	8	7	5	4	4
	Deflection (L/240)	670	282	144	83	52	35	24	18	13	10	8	6	5	4	3	3
2 Span	Positive Wind	637	439	285	199	147	113	89	72	60	50	43	37	32	28	25	22
	Negative Wind	760	439	285	199	147	113	89	72	60	50	43	37	32	28	25	22
	Live	637	439	285	199	147	113	89	72	60	50	43	37	32	28	25	22
	Deflection (L/180)	2152	908	464	269	169	113	79	58	43	33	26	21	17	14	11	9
	Deflection (L/240)	1614	681	348	201	127	85	59	43	32	25	19	15	12	10	8	7
3 Span	Positive Wind	724	541	352	247	183	140	111	90	74	63	53	46	40	35	31	28
	Negative Wind	925	541	352	247	183	140	111	90	74	63	53	46	40	35	31	28
	Live	724	541	352	247	183	140	111	90	74	63	53	46	40	35	31	28
	Deflection (L/180)	1686	711	364	210	132	88	62	45	34	26	20	16	13	11	9	7
	Deflection (L/240)	1264	533	273	158	99	66	46	34	25	19	15	12	10	8	6	5
4 Span	Positive Wind	697	507	330	231	171	131	104	84	70	58	50	43	37	33	29	26
	Negative Wind	872	507	330	231	171	131	104	84	70	58	50	43	37	33	29	26
	Live	697	507	330	231	171	131	104	84	70	58	50	43	37	33	29	26
	Deflection (L/180)	1789	755	386	223	140	94	66	48	36	27	21	17	14	11	9	8
	Deflection (L/240)	1342	566	289	167	105	70	49	36	27	20	16	13	10	8	7	6

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".

CORPORATE OFFICE  
SHREVEPORT, LOUISIANA