

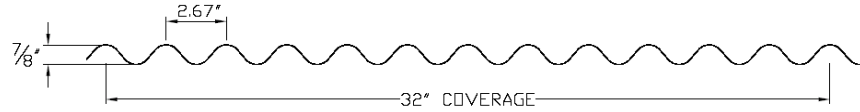


## TECHNICAL BULLETIN

Issue Date : June 1, 2006

No. 07-230-06

### 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.
29	80.0	0.82	1.2967	319.73	381.51	0.0203	0.0438	1.5750	0.0203	0.0438	1.5750

- 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	426	262	168	116	85	65	51	42	34	29	24	21	18	16	14	12
	Negative Wind	466	262	168	116	85	65	51	42	34	29	24	21	18	16	14	12
	Live	426	262	168	116	85	65	51	42	34	29	24	21	18	16	14	12
	Deflection (L/180)	525	221	113	65	41	27	19	14	10	8	6	5	4	3	2	2
	Deflection (L/240)	394	166	85	49	31	20	14	10	7	6	4	3	3	2	2	1
2 Span	Positive Wind	203	152	122	101	84	65	51	41	34	29	24	21	18	16	14	12
	Negative Wind	442	254	164	115	84	65	51	41	34	29	24	21	18	16	14	12
	Live	203	152	122	101	84	65	51	41	34	29	24	21	18	16	14	12
	Deflection (L/180)	1266	534	273	158	99	66	46	34	25	19	15	12	10	8	6	5
	Deflection (L/240)	949	400	205	118	74	50	35	25	19	14	11	9	7	6	5	4
3 Span	Positive Wind	231	173	138	115	99	81	64	52	43	36	30	26	23	20	18	16
	Negative Wind	540	313	204	142	105	81	64	52	43	36	30	26	23	20	18	16
	Live	231	173	138	115	99	81	64	52	43	36	30	26	23	20	18	16
	Deflection (L/180)	992	418	214	124	78	52	36	26	20	15	12	9	7	6	5	4
	Deflection (L/240)	744	313	160	93	58	39	27	20	15	11	9	7	5	4	4	3
4 Span	Positive Wind	222	166	133	111	95	75	60	48	40	33	28	24	21	19	16	15
	Negative Wind	508	294	191	133	98	75	60	48	40	33	28	24	21	19	16	15
	Live	222	166	133	111	95	75	60	48	40	33	28	24	21	19	16	15
	Deflection (L/180)	1053	444	227	131	82	55	39	28	21	16	12	10	8	6	5	4
	Deflection (L/240)	789	333	170	98	62	41	29	21	16	12	9	7	6	5	4	3

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