

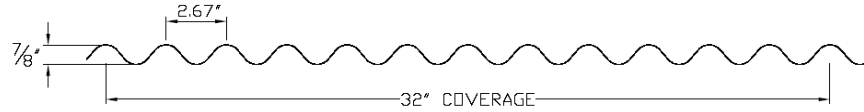


TECHNICAL BULLETIN

Issue Date : June 1, 2006

No. 07-228-06

Multi-Cor



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	50.0	1.02	1.3461	452.73	567.25	0.0266	0.0595	1.7813	0.0266	0.0595	1.7813

- 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	527	296	190	131	96	74	58	47	39	32	28	24	21	18	16	14
	Negative Wind	527	296	190	131	96	74	58	47	39	32	28	24	21	18	16	14
	Live	527	296	190	131	96	74	58	47	39	32	28	24	21	18	16	14
	Deflection (L/180)	688	290	148	86	54	36	25	18	13	10	8	6	5	4	3	3
	Deflection (L/240)	516	217	111	64	40	27	19	13	10	8	6	5	4	3	2	2
2 Span	Positive Wind	302	226	181	129	95	73	58	47	39	32	28	24	21	18	16	14
	Negative Wind	495	286	185	129	95	73	58	47	39	32	28	24	21	18	16	14
	Live	302	226	181	129	95	73	58	47	39	32	28	24	21	18	16	14
	Deflection (L/180)	1659	700	358	207	130	87	61	44	33	25	20	16	13	10	9	7
	Deflection (L/240)	1244	525	268	155	97	65	46	33	25	19	15	12	9	8	6	5
3 Span	Positive Wind	343	257	206	161	119	91	72	58	48	40	34	30	26	23	20	18
	Negative Wind	603	352	229	161	119	91	72	58	48	40	34	30	26	23	20	18
	Live	343	257	206	161	119	91	72	58	48	40	34	30	26	23	20	18
	Deflection (L/180)	1300	548	280	162	102	68	48	35	26	20	15	12	10	8	7	6
	Deflection (L/240)	975	411	210	121	76	51	36	26	19	15	11	9	7	6	5	4
4 Span	Positive Wind	330	248	198	150	111	85	67	54	45	38	32	28	24	21	19	17
	Negative Wind	568	330	215	150	111	85	67	54	45	38	32	28	24	21	19	17
	Live	330	248	198	150	111	85	67	54	45	38	32	28	24	21	19	17
	Deflection (L/180)	1380	582	298	172	108	72	51	37	27	21	16	13	11	9	7	6
	Deflection (L/240)	1035	436	223	129	81	54	38	27	20	16	12	10	8	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".

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