

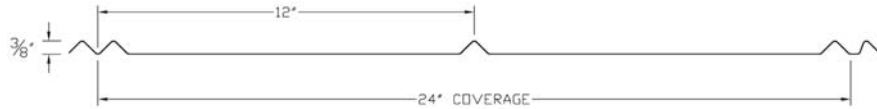


## TECHNICAL BULLETIN

Issue Date : June 1, 2006

No. 07-193-06

### 3/8" 5-V Crimp



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	0.70	0.4071	237.29	359.06	0.0020	0.0053	0.1885	0.0011	0.0060	0.1470

- 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															
		0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25	2.50	2.75	3.00	3.25	3.50	3.75	4.00
Single	Positive Wind	2010	502	223	125	80	55	41	31	24	20	16	13	11	10	8	7
	Negative Wind	1568	392	174	98	62	43	32	24	19	15	12	10	9	8	6	6
	Live	2010	502	223	125	80	55	41	31	24	20	16	13	11	10	8	7
	Deflection (L/180)	11188	1398	414	174	89	51	32	21	15	11	8	6	5	4	3	2
	Deflection (L/240)	8391	1048	310	131	67	38	24	16	11	8	6	4	3	3	2	2
2 Span	Positive Wind	1343	375	170	96	62	43	31	24	19	15	12	10	9	7	6	6
	Negative Wind	1591	468	216	123	79	55	40	31	24	20	16	13	11	10	8	7
	Live	1343	375	170	96	62	43	31	24	19	15	12	10	9	7	6	6
	Deflection (L/180)	20886	2610	773	326	167	96	60	40	28	20	15	12	9	7	6	5
	Deflection (L/240)	15665	1958	580	244	125	72	45	30	21	15	11	9	7	5	4	3
3 Span	Positive Wind	1588	460	211	120	77	54	39	30	24	19	16	13	11	9	8	7
	Negative Wind	1844	570	266	153	98	68	50	38	30	24	20	17	14	12	10	9
	Live	1588	460	211	120	77	54	39	30	24	19	16	13	11	9	8	7
	Deflection (L/180)	16362	2045	606	255	130	75	47	31	22	16	12	9	7	5	4	3
	Deflection (L/240)	12271	1533	454	191	98	56	35	23	16	12	9	7	5	4	3	2
4 Span	Positive Wind	1511	432	198	112	72	50	37	28	22	18	15	12	10	9	8	7
	Negative Wind	1765	537	250	143	92	64	47	36	28	23	19	16	13	11	10	9
	Live	1511	432	198	112	72	50	37	28	22	18	15	12	10	9	8	7
	Deflection (L/180)	17369	2171	643	271	138	80	50	33	23	17	13	10	7	6	5	4
	Deflection (L/240)	13027	1628	482	203	104	60	37	25	17	13	9	7	5	4	3	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".
- 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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