

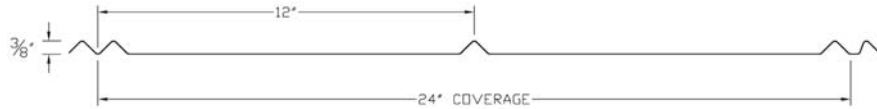


## TECHNICAL BULLETIN

Issue Date : June 1, 2006

No. 07-192-06

### 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.
26	80.0	0.87	0.5026	362.69	539.65	0.0025	0.0065	0.2315	0.0015	0.0084	0.1855

- 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	2469	617	274	154	98	68	50	38	30	24	20	17	14	12	10	9
	Negative Wind	1978	494	219	123	79	54	40	30	24	19	16	13	11	10	8	7
	Live	2469	617	274	154	98	68	50	38	30	24	20	17	14	12	10	9
	Deflection (L/180)	13985	1748	517	218	111	64	40	27	19	13	10	8	6	5	4	3
	Deflection (L/240)	10488	1311	388	163	83	48	30	20	14	10	7	6	4	3	3	2
2 Span	Positive Wind	1685	472	215	122	78	54	40	30	24	19	16	13	11	10	8	7
	Negative Wind	1958	576	265	151	97	68	50	38	30	24	20	17	14	12	10	9
	Live	1685	472	215	122	78	54	40	30	24	19	16	13	11	10	8	7
	Deflection (L/180)	26950	3368	998	421	215	124	78	52	36	26	20	15	12	9	7	6
	Deflection (L/240)	20212	2526	748	315	161	93	58	39	27	20	15	11	9	7	5	4
3 Span	Positive Wind	1989	580	266	152	97	68	50	38	30	24	20	17	14	12	10	9
	Negative Wind	2270	700	327	187	121	84	62	47	37	30	25	21	18	15	13	12
	Live	1989	580	266	152	97	68	50	38	30	24	20	17	14	12	10	9
	Deflection (L/180)	21112	2639	781	329	168	97	61	41	28	21	15	12	9	7	6	5
	Deflection (L/240)	15834	1979	586	247	126	73	46	30	21	15	11	9	7	5	4	3
4 Span	Positive Wind	1893	544	249	142	91	63	46	35	28	23	19	16	13	11	10	9
	Negative Wind	2173	660	307	175	113	79	58	44	35	28	23	19	17	14	12	11
	Live	1893	544	249	142	91	63	46	35	28	23	19	16	13	11	10	9
	Deflection (L/180)	22412	2801	830	350	179	103	65	43	30	22	16	12	10	8	6	5
	Deflection (L/240)	16809	2101	622	262	134	77	49	32	23	16	12	9	7	6	4	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".
- 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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