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TECHNICAL BULLETIN

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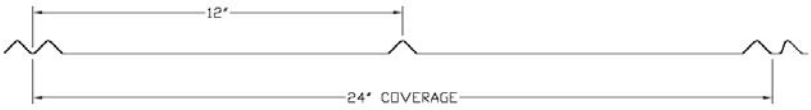
5-V Crimp



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	80.0	0.88	0.4806	407.98	599.64	0.0030	0.0077	0.2770	0.0015	0.0010	0.2195

1. Section properties are calculated in accordance with the 2001 AISI North American Specification for the Design of Cold-Formed Steel Structural Members.
2. Va is the allowable shear.
3. Pa is the allowable load for web crippling on end & interior supports.
4. Ix is for deflection determination.
5. Se is for bending.
6. Ma is the allowable bending moment.
7. All values are for one foot of panel width.

Allowable Uniform Loads (PSF)

		Span in Feet															
Span Type	Load Type	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	2954	738	328	184	118	82	60	46	36	29	24	20	17	15	13	11
	Negative Wind	2341	585	260	146	93	65	47	36	28	23	19	16	13	11	10	9
	Live	2954	738	328	184	118	82	60	46	36	29	24	20	17	15	13	11
	Deflection (L/180)	16782	2097	621	262	134	77	48	32	23	16	12	9	7	6	4	4
	Deflection (L/240)	12586	1573	466	196	100	58	36	24	17	12	9	7	5	4	3	3
2 Span	Positive Wind	1863	547	252	143	92	64	47	36	28	23	19	16	13	11	10	9
	Negative Wind	2130	665	312	179	116	81	59	45	36	29	24	20	17	15	13	11
	Live	1863	547	252	143	92	64	47	36	28	23	19	16	13	11	10	9
	Deflection (L/180)	30319	3789	1122	473	242	140	88	59	41	30	22	17	13	11	8	7
	Deflection (L/240)	22739	2842	842	355	181	105	66	44	31	22	17	13	10	8	6	5
3 Span	Positive Wind	2160	665	311	178	115	80	59	45	35	29	24	20	17	14	12	11
	Negative Wind	2420	799	383	221	143	100	74	57	45	36	30	25	21	18	16	14
	Live	2160	665	311	178	115	80	59	45	35	29	24	20	17	14	12	11
	Deflection (L/180)	23752	2969	879	371	190	109	69	46	32	23	17	13	10	8	7	5
	Deflection (L/240)	17814	2226	659	278	142	82	51	34	24	17	13	10	8	6	5	4
4 Span	Positive Wind	2068	627	291	166	107	75	55	42	33	27	22	18	16	13	12	10
	Negative Wind	2331	756	360	207	134	94	69	53	42	34	28	23	20	17	15	13
	Live	2068	627	291	166	107	75	55	42	33	27	22	18	16	13	12	10
	Deflection (L/180)	25213	3151	933	393	201	116	73	49	34	25	18	14	11	9	7	6
	Deflection (L/240)	18910	2363	700	295	151	87	55	36	25	18	14	10	8	6	5	4

Notes:
1. Allowable uniform loads are based upon equal span lengths.
2. Positive Wind is wind pressure and is **NOT** increased by 33 1/3 %.
3. Negative Wind is wind suction or uplift and is **NOT** increased by 33 1/3%.
4. Live is the allowable live or snow load.
5. Deflection (L/180) is the allowable load that limits the panel's deflection to L/180 while under positive or live load.
6. Deflection (L/240) is the allowable load that limits the panel's deflection to L/240 while under positive or live load.
7. The weight of the panel has **NOT** been deducted from the allowable loads.
8. Positive Wind, Negative Wind, and Live Load values are limited to combined shear & bending using Eq. C3.3.1-1 of the AISI Specification.
9. Positive Wind and Live Load values are limited by web crippling using a bearing length of 2".
10. Web crippling values are determined using a ratio of the uniform load **actually** supported by the top flanges of the section.