5V CRIMP x 24ga

PANEL SECTION PROPERTIES --- PER FOOT OF WIDTH

GAUGE	Fy	WEIGHT	SHEAR	TOP IN COMPRESSION			BOTTOM IN COMPRESSION		
			Va	Ix	Sx	Ma	Ix	Sx	Ma
	(ksi)	(psf)	(lbs / ft)	(in4 / ft)	(in3 / ft)	(in.-k)	(in4 / ft)	(in3 / ft)	(in.-k)
24	50	1.025	480	0.0025	0.0076	0.2285	0.0020	0.0064	0.1920

Notes:

1. Fy is the yield strength of the base metal.
2. Va is the allowable vertical shear of the panel.
3. Ix is the effective moment of inertia of the panel per foot of width.
4. Sx is the effective section modulus of the panel per foot of width.
5. Ma is the allowable bending moment of the panel per foot of width.
6. All properties are calculated in accordance with the 2007 North American Specification for the Design of Cold-Formed Steel Structural Members.

ASD - ALLOWABLE UNIFORM LOAD (psf)

SPANS	LOAD TYPE	SPAN (FEET)							
		1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5
1	LIVE	152	67	38	24	16	12	9	7
	NEGATIVE WIND	128	56	32	20	14	10	8	6
	DEFL. (L / 180)	152	63	26	13	7	5	3	2
	DEFL. (L / 240)	152	47	20	10	5	3	2	1
2	LIVE	126	56	31	20	14	10	7	6
	NEGATIVE WIND	149	67	37	24	16	12	9	7
	DEFL. (L / 180)	126	56	31	20	14	10	7	5
	DEFL. (L / 240)	126	56	31	20	14	9	6	4
3	LIVE	156	70	39	25	17	13	9	7
	NEGATIVE WIND	185	83	47	30	21	15	11	9
	DEFL. (L / 180)	156	70	39	25	15	9	6	4
	DEFL. (L / 240)	156	70	38	19	11	7	4	3
4	LIVE	146	65	37	23	16	12	9	7
	NEGATIVE WIND	173	78	44	28	19	14	11	8
	DEFL. (L / 180)	146	65	37	23	15	10	6	4
	DEFL. (L / 240)	146	65	37	20	11	7	5	3

Notes:

1. Loads have NOT been increased by 1/3.
2. Span lengths are assumed to be equal.
3. Self weight of panel has not been deducted from tabular values.
4. Both Wind and Live "Load Type" values have considered combined bending and shear.
5. Effects of web crippling and fastener/support connection have not been considered..
6. All values have been calculated in accordance with the 2007 North American Specification for the Design of Cold-Formed Steel Structural Members.
7. For use over continuous structural substrate only.
8. Deflection values are capped at the Live load value.