



16" Classic Series Panel

SECTION PROPERTIES								
PANEL	Fy	WEIGHT	NEGATIVE BENDING			POSITIVE BENDING		
			Ixe	Sxe	Maxo	Ixe	Sxe	Maxo
GAUGE	(KSI)	(PSF)	(IN.4/FT.)	(IN.3/FT.)	(KIP-IN.)	(IN.4/FT.)	(IN.3/FT.)	(KIP-IN.)
24	50	1.48	0.1574	0.0988	2.9590	0.3176	0.1360	4.0721
22	50	1.87	0.2167	0.1406	4.2098	0.4518	0.1981	5.9328

NOTES:

1. All calculations for the properties of Classic Series panels are calculated in accordance with the 1996 edition of the COLD-FORMED STEEL Design Manual/ 1999 supplement - published by the American Iron and Steel Institute (AISI).
2. Ixe is for deflection determination.
3. Sxe is for Bending.
4. Maxo is allowable bending moment.
5. All values are for the one foot of panel width.

ALLOWABLE UNIFORM LOADS IN POUNDS PER SQUARE FOOT

24 Gauge (Fy = 50 KSI)								
SPAN TYPE	LOAD TYPE	SPAN IN FEET						
		3.0	4.0	5.0	6.0	7.0	8.0	9.0
SINGLE	NEGATIVE WIND LOAD	292.2	164.4	105.2	73.1	53.7	41.1	32.5
	LIVE LOAD/DEFLECTION	121.6	91.2	72.9	60.8	52.1	42.4	33.5
2-SPAN	NEGATIVE WIND LOAD	402.2	226.2	144.8	100.5	73.9	56.6	44.7
	LIVE LOAD/DEFLECTION	113.0	84.8	67.8	54.8	40.3	30.8	24.4
3-SPAN	NEGATIVE WIND LOAD	456.6	256.9	164.4	114.2	83.9	64.2	50.7
	LIVE LOAD/DEFLECTION	128.4	96.3	77.1	64.2	50.3	38.5	30.4
4-SPAN	NEGATIVE WIND LOAD	469.4	264.0	169.0	117.4	86.2	66.0	52.2
	LIVE LOAD/DEFLECTION	123.6	92.7	74.2	61.8	47.0	36.0	28.4

22 Gauge (Fy = 50 KSI)								
SPAN TYPE	LOAD TYPE	SPAN IN FEET						
		3.0	4.0	5.0	6.0	7.0	8.0	9.0
SINGLE	NEGATIVE WIND LOAD	415.8	233.9	149.7	103.9	76.4	58.5	46.2
	LIVE LOAD/DEFLECTION	189.3	142.0	113.6	94.7	80.7	61.8	48.8
2-SPAN	NEGATIVE WIND LOAD	586.0	329.6	210.9	146.5	107.6	82.4	65.1
	LIVE LOAD/DEFLECTION	186.2	139.7	112.3	78.0	57.3	43.9	34.6
3-SPAN	NEGATIVE WIND LOAD	649.7	365.4	233.9	162.4	119.3	91.4	72.2
	LIVE LOAD/DEFLECTION	211.6	158.7	127.0	97.4	71.6	54.8	43.3
4-SPAN	NEGATIVE WIND LOAD	673.2	378.7	242.4	168.3	123.7	94.7	74.8
	LIVE LOAD/DEFLECTION	203.6	152.7	122.2	91.0	66.8	51.2	40.4

NOTES:

1. Allowable loads are based on uniform span lengths.
2. LIVE LOAD is limited by bending, shear, combined shear & bending, or web crippling.
3. DEFLECTION is limited by a maximum deflection ratio of L/180 of span.
4. NEGATIVE WIND LOAD has been increased by 33.333% and does not consider fastener pullout or pullover.
5. Panel weight has not been deducted from allowable loads.