



7.2 Panel

SECTION PROPERTIES								
PANEL GAUGE	F _y (KSI)	WEIGHT (PSF)	NEGATIVE BENDING			POSITIVE BENDING		
			I _{xe} (IN.4/FT.)	S _{xe} (IN.3/FT.)	Maxo (KIP-IN.)	I _{xe} (IN.4/FT.)	S _{xe} (IN.3/FT.)	Maxo (KIP-IN.)
29	60*	0.66	0.0426	0.0418	1.502	0.0426	0.0418	1.502
26	60*	0.86	0.0643	0.0680	2.4424	0.0643	0.0680	2.4424
24	50	1.06	0.0918	0.1037	3.1046	0.0918	0.1037	3.1046
22	50	1.36	0.1252	0.1459	4.3671	0.1252	0.1459	4.3671

* F_y is 80-ksi reduced to 60-ksi in accordance with the 2001 edition of the North American Specification For Design Of Cold-Formed Steel Structural Members - A2.3.2.

NOTES:

1. All calculations for the properties of 7.2 panels are calculated in accordance with the 2001 edition of the North American Specification For Design Of Cold-Formed Steel Structural Members.
2. I_{xe} is for deflection determination.
3. S_{xe} is for bending.
4. Maxo is allowable bending moment.
5. All values are for one foot of panel width.

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ALLOWABLE UNIFORM LOADS IN POUNDS PER SQUARE FOOT

7.2 Panel

29 Gauge (Fy = 60 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	111.3	62.6	40.1	27.8	20.4	15.6	12.4
	LIVE LOAD/DEFLECTION	82.5	58.2	29.8	17.2	10.9	7.3	5.1
2-SPAN	NEGATIVE WIND LOAD	111.3	62.6	40.1	27.8	20.4	15.6	12.4
	LIVE LOAD/DEFLECTION	76.2	56.0	37.2	26.4	19.6	15.2	12.1
3-SPAN	NEGATIVE WIND LOAD	139.1	78.2	50.1	34.8	25.5	19.6	15.5
	LIVE LOAD/DEFLECTION	86.6	64.9	45.1	32.3	20.5	13.7	9.6
4-SPAN	NEGATIVE WIND LOAD	129.9	73.0	46.7	32.5	23.9	18.3	14.4
	LIVE LOAD/DEFLECTION	83.3	62.5	42.6	30.4	21.7	14.6	10.2

26 Gauge (Fy = 60 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	180.9	101.8	65.1	45.2	33.2	25.4	20.1
	LIVE LOAD/DEFLECTION	153.7	87.8	45.0	26.0	16.4	11.0	7.7
2-SPAN	NEGATIVE WIND LOAD	180.9	101.8	65.1	45.2	33.2	25.4	20.1
	LIVE LOAD/DEFLECTION	129.7	97.3	77.8	62.7	39.5	26.4	18.6
3-SPAN	NEGATIVE WIND LOAD	226.1	127.2	81.4	56.5	41.5	31.8	25.1
	LIVE LOAD/DEFLECTION	147.4	110.5	76.8	49.1	30.9	20.7	14.5
4-SPAN	NEGATIVE WIND LOAD	211.2	118.8	76.0	52.8	38.8	29.7	23.5
	LIVE LOAD/DEFLECTION	141.8	106.4	72.1	50.9	32.8	22.0	15.4

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	230.0	129.4	82.8	57.5	42.2	32.3	25.6
	LIVE LOAD/DEFLECTION	205.0	125.4	64.2	37.1	23.4	15.7	11.0
2-SPAN	NEGATIVE WIND LOAD	230.0	129.4	82.8	57.5	42.2	32.3	25.6
	LIVE LOAD/DEFLECTION	163.1	122.3	81.2	56.7	41.8	32.1	25.4
3-SPAN	NEGATIVE WIND LOAD	287.5	161.7	103.5	71.9	52.8	40.4	31.9
	LIVE LOAD/DEFLECTION	185.4	139.0	100.6	70.1	44.1	29.6	20.8
4-SPAN	NEGATIVE WIND LOAD	268.4	151.0	96.6	67.1	49.3	37.7	29.8
	LIVE LOAD/DEFLECTION	178.4	133.8	94.2	65.9	46.9	31.4	22.0

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	323.5	182.0	116.5	80.9	59.4	45.5	35.9
	LIVE LOAD/DEFLECTION	323.5	171.0	87.5	50.7	31.9	21.4	15.0
2-SPAN	NEGATIVE WIND LOAD	323.5	182.0	116.5	80.9	59.4	45.5	35.9
	LIVE LOAD/DEFLECTION	305.1	175.9	113.9	79.6	58.7	45.1	35.7
3-SPAN	NEGATIVE WIND LOAD	404.4	227.5	145.6	101.1	74.3	56.9	44.9
	LIVE LOAD/DEFLECTION	300.5	216.8	141.1	98.9	60.2	40.3	28.3
4-SPAN	NEGATIVE WIND LOAD	377.6	212.4	135.9	94.4	69.3	53.1	42.0
	LIVE LOAD/DEFLECTION	289.2	203.4	132.2	92.6	63.9	42.8	30.1

NOTES:

- 1) Allowable loads are based on uniform span lengths and Fy = 50 and 60-ksi.
- 2) LIVE LOAD is limited by bending, shear, combined shear & bending and web crippling.
- 3) **NEGATIVE WIND LOAD does not contain a 33.333% increase and does not consider fastener pullout or pullover.**
- 4) Above loads consider a maximum deflection ratio of L/180.
- 5) The weight of the panel has not been deducted from the allowable loads.
- 6) The use of any accessories other than those provided by the manufacturer may damage panels, void all warranties and will void all engineering data.
- 7) This material is subject to change without notice. Please contact MBCI for most current data.

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