



12" FW Panel

SECTION PROPERTIES								
PANEL	Fy	WEIGHT	NEGATIVE BENDING			POSITIVE BENDING		
GAUGE	(KSI)	(PSF)	I _{xe}	S _{xe}	Maxo	I _{xe}	S _{xe}	Maxo
			(IN.4/FT.)	(IN.3/FT.)	(KIP-IN.)	(IN.4/FT.)	(IN.3/FT.)	(KIP-IN.)
24	50	1.54	0.0987	0.0825	2.4681	0.0442	0.0511	1.5275
22	50	1.85	0.1316	0.1106	3.3129	0.0617	0.0739	2.2110

NOTES:

1. All calculations for the properties of FW panels are calculated in accordance with the 1996 edition of the COLD-FORMED STEEL Design Manual, w/ 1999 supplement - published by the American Iron and Steel Institute (AISI).
2. I_{xe} is for deflection determination.
3. S_{xe} 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	POSITIVE WIND LOAD	146.0	84.9	46.3	26.8	16.9	11.3	7.9
2-SPAN	POSITIVE WIND LOAD	69.0	51.7	40.0	27.9	20.6	15.8	12.5
3-SPAN	POSITIVE WIND LOAD	78.4	58.8	47.0	34.7	25.6	19.7	15.0
4-SPAN	POSITIVE WIND LOAD	75.4	56.6	45.2	32.5	24.0	18.4	14.6

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	POSITIVE WIND LOAD	217.3	122.8	64.7	37.5	23.6	15.8	11.1
2-SPAN	POSITIVE WIND LOAD	138.1	88.7	57.5	40.3	29.7	22.8	18.1
3-SPAN	POSITIVE WIND LOAD	156.9	109.2	71.2	50.0	36.9	28.4	20.9
4-SPAN	POSITIVE WIND LOAD	151.0	102.5	66.7	46.8	34.6	26.6	21.0

NOTES:

1. Allowable loads are based on uniform span lengths.
2. POSITIVE WIND LOAD has been increased by 33.333%.
3. POSITIVE WIND LOAD is limited by bending, shear, combined shear & bending, or web crippling.
4. POSITIVE WIND LOAD is limited by a maximum deflection ratio of L/120 of span.
5. Contact MBCI for negative wind load values.