



**PBU Panel**

SECTION PROPERTIES								
PANEL GAUGE	Fy (KSI)	WEIGHT (PSF)	NEGATIVE BENDING			POSITIVE BENDING		
			Ixe (IN.4/FT.)	Sxe (IN.3/FT.)	Maxo (KIP-IN.)	Ixe (IN.4/FT.)	Sxe (IN.3/FT.)	Maxo (KIP-IN.)
29	60*	0.75	0.0112	0.0239	0.8579	0.016	0.0270	0.9714
26	60*	0.94	0.0304	0.0514	1.848	0.0371	0.0374	1.3456
24	50	1.14	0.0214	0.0494	1.4796	0.031	0.0555	1.6618
22	50	1.44	0.0301	0.0731	2.1897	0.0419	0.0754	2.2565

\* Fy 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 PBU panels are calculated in accordance with the 2001 edition of the North American Specification For Design Of Cold-Formed Steel Structural Members.
2. Ixe is for deflection determination.
3. Sxe is for bending.
4. Maxo is allowable bending moment.
5. All values are for one foot of panel width.

The Engineering data contained herein is for the expressed use of customers and design professionals. Along with this data, it is recommended that the design professional have a copy of the most current version of the *North American Specification for the Design of Cold-Formed Steel Structural Members* published by the American Iron and Steel Institute to facilitate design. This Specification contains the design criteria for cold-formed steel components. Along with the Specification, the designer should reference the most current building code applicable to the project jobsite in order to determine environmental loads. If further information or guidance regarding cold-formed design practices is desired, please contact the manufacturer.



**ALLOWABLE UNIFORM LOADS IN POUNDS PER SQUARE FOOT**

**PBU 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	63.5	35.7	22.9	15.9	11.7	8.9	7.1
	LIVE LOAD/DEFLECTION	51.8	21.9	11.2	6.5	4.1	2.7	1.9
2-SPAN	NEGATIVE WIND LOAD	72.0	40.5	25.9	18.0	13.2	10.1	8.0
	LIVE LOAD/DEFLECTION	63.5	35.7	22.9	15.6	9.8	6.6	4.6
3-SPAN	NEGATIVE WIND LOAD	89.9	50.6	32.4	22.5	16.5	12.6	10.0
	LIVE LOAD/DEFLECTION	79.4	41.2	21.1	12.2	7.7	5.2	3.6
4-SPAN	NEGATIVE WIND LOAD	84.0	47.2	30.2	21.0	15.4	11.8	9.3
	LIVE LOAD/DEFLECTION	74.2	41.7	22.4	13.0	8.2	5.5	3.8

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	92.5	52.0	33.3	23.1	17.0	13.0	10.3
	LIVE LOAD/DEFLECTION	75.8	32.0	16.4	9.5	6.0	4.0	2.8
2-SPAN	NEGATIVE WIND LOAD	108.6	61.1	39.1	27.2	20.0	15.3	12.1
	LIVE LOAD/DEFLECTION	92.5	52.0	33.3	22.8	14.4	9.6	6.8
3-SPAN	NEGATIVE WIND LOAD	135.8	76.4	48.9	33.9	24.9	19.1	15.1
	LIVE LOAD/DEFLECTION	115.6	60.3	30.9	17.9	11.3	7.5	5.3
4-SPAN	NEGATIVE WIND LOAD	126.8	71.3	45.6	31.7	23.3	17.8	14.1
	LIVE LOAD/DEFLECTION	108.0	60.7	32.8	19.0	11.9	8.0	5.6

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	109.6	61.7	39.5	27.4	20.1	15.4	12.2
	LIVE LOAD/DEFLECTION	100.4	42.3	21.7	12.5	7.9	5.3	3.7
2-SPAN	NEGATIVE WIND LOAD	123.1	69.2	44.3	30.8	22.6	17.3	13.7
	LIVE LOAD/DEFLECTION	109.6	61.7	39.5	27.4	19.0	12.7	9.0
3-SPAN	NEGATIVE WIND LOAD	153.9	86.6	55.4	38.5	28.3	21.6	17.1
	LIVE LOAD/DEFLECTION	137.0	77.1	40.9	23.7	14.9	10.0	7.0
4-SPAN	NEGATIVE WIND LOAD	143.7	80.8	51.7	35.9	26.4	20.2	16.0
	LIVE LOAD/DEFLECTION	127.9	72.0	43.4	25.1	15.8	10.6	7.4

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	162.2	91.2	58.4	40.6	29.8	22.8	18.0
	LIVE LOAD/DEFLECTION	135.6	57.2	29.3	17.0	10.7	7.2	5.0
2-SPAN	NEGATIVE WIND LOAD	167.1	94.0	60.2	41.8	30.7	23.5	18.6
	LIVE LOAD/DEFLECTION	160.5	91.2	58.4	40.6	25.7	17.2	12.1
3-SPAN	NEGATIVE WIND LOAD	208.9	117.5	75.2	52.2	38.4	29.4	23.2
	LIVE LOAD/DEFLECTION	197.2	108.0	55.3	32.0	20.1	13.5	9.5
4-SPAN	NEGATIVE WIND LOAD	195.1	109.7	70.2	48.8	35.8	27.4	21.7
	LIVE LOAD/DEFLECTION	185.2	106.5	58.7	34.0	21.4	14.3	10.1

**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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