

SCHULTE BUILDING SYSTEMS

PBR PANEL

SECTION PROPERTIES								
PANEL	Fy	WEIGHT	POSITIVE BENDING			NEGATIVE BENDING		
			lxe	Sxe	Maxo	lxe	Sxe	Maxo
GAUGE	(KSI)	(PSF)	(IN.4/FT.)	(IN.3/FT.)	(KIP-IN.)	(IN.4/FT.)	(IN.3/FT.)	(KIP-IN.)
26	60*	0.85	0.0390	0.0390	1.4003	0.0303	0.0458	1.6457

* Fy is 80-ksi reduced to 60-ksi in accordance with the 2007 edition of the North American Specification For Design Of Cold-Formed Steel Structural Members

NOTES:

1. All calculations for the properties of PBR panels are calculated in accordance with the 2007 edition of the North American Specification For Design Of Cold-Formed Steel Structural Members.
2. lxe 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.

ALLOWABLE UNIFORM LOADS IN POUNDS PER SQUARE FOOT

		26 Gauge PBR													
SPAN TYPE	LOAD TYPE	SPAN IN FEET													
		1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5
SINGLE	NEGATIVE WIND LOAD	1097.1	487.6	274.3	169.5	98.1	61.8	41.4	29.1	21.2	15.9	12.3	9.6	7.7	6.3
	POSITIVE WIND/LIVE LOAD L/180	330.8	220.5	165.4	132.3	103.7	76.2	53.3	37.4	27.3	20.5	15.8	12.4	9.9	8.1
	POSITIVE WIND/LIVE LOAD L/120	330.8	220.5	165.4	132.3	103.7	76.2	58.3	46.1	37.3	30.7	23.7	18.6	14.9	12.1
2-SPAN	NEGATIVE WIND LOAD	758.3	400.0	233.4	149.4	103.7	76.2	58.3	46.1	37.3	30.9	25.9	22.1	18.6	15.1
	POSITIVE WIND/LIVE LOAD L/180	262.2	174.8	131.1	104.9	87.4	73.9	57.0	45.2	36.8	30.5	25.7	21.9	18.9	16.5
	POSITIVE WIND/LIVE LOAD L/120	262.2	174.8	131.1	104.9	87.4	73.9	57.0	45.2	36.8	30.5	25.7	21.9	18.9	16.5
3-SPAN	NEGATIVE WIND LOAD	854.8	467.5	290.4	186.7	129.7	95.3	72.9	54.8	40.0	30.0	23.1	18.2	14.6	11.8
	POSITIVE WIND/LIVE LOAD L/180	298.0	198.6	149.0	119.2	99.3	85.1	70.5	56.1	45.6	37.9	29.8	23.4	18.8	15.2
	POSITIVE WIND/LIVE LOAD L/120	298.0	198.6	149.0	119.2	99.3	85.1	70.5	56.1	45.6	37.9	31.9	27.3	23.5	20.5
4-SPAN	NEGATIVE WIND LOAD	825.8	446.6	272.4	174.3	121.1	88.9	68.1	53.8	42.4	31.9	24.6	19.3	15.5	12.6
	POSITIVE WIND/LIVE LOAD L/180	286.8	191.2	143.4	114.7	95.6	81.9	66.0	52.5	42.7	35.4	29.8	24.9	19.9	16.2
	POSITIVE WIND/LIVE LOAD L/120	286.8	191.2	143.4	114.7	95.6	81.9	66.0	52.5	42.7	35.4	29.8	25.5	22.0	19.2

NOTES:

- 1) Section properties and allowable loads were computed in accordance with the 2007 edition of the North American Specification For Design Of Cold-Formed Steel Structural Members.
- 2) Allowable loads are based on uniform span lengths.
- 3) LIVE LOAD is limited by bending, shear, combined shear & bending and web crippling and deflection of L/180 or L/120.
- 4) NEGATIVE WIND LOAD is limited by bending, shear, combined shear and bending and deflection of L/180.
- 5) NEGATIVE WIND LOAD does not consider fastener pullout & pullover. Connection to framing must be evaluated for fastener pullout & pullover.
- 6) The weight of the panel has not been deducted from the allowable loads.

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