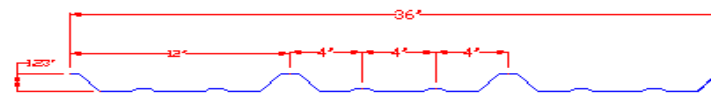




## 24 GA PBR METAL DECK GRADE 50

SECTION PROPERTIES				TOP IN COMPRESSION (POS)			BOTTOM IN COMPRESSION (NEG)		
F <sub>y</sub>	E	Weight	V <sub>a</sub>	I <sub>x</sub>	S <sub>x</sub>	M <sub>a</sub>	I <sub>x</sub>	S <sub>x</sub>	M <sub>a</sub>
(KSI)	(KSI)	(PSF)	(kip/ft.)	(in. <sup>4</sup> /ft.)	(in. <sup>3</sup> /ft.)	(kip-in./ft.)	(in. <sup>4</sup> /ft.)	(in. <sup>3</sup> /ft.)	(kip-in./ft.)
50	29000	0.86	0.94	0.046	0.05	1.5	0.046	0.048	1.44

1. V<sub>a</sub> is the allowable shear.
2. I<sub>x</sub> is for deflection determination.
3. M<sub>a</sub> is the allowable bending moment
4. all values are for one foot of panel with.
3. S<sub>x</sub> is for bending.



Thickness = 0.023"

### ALLOWABLE UNIFORM LOADS (PSF)

Span In Feet															
Span Type	Load Type	3	3.5	4	4.5	5	6	6.5	7	7.5	8	8.5	9	9.5	10
Single	Positive Wind	111	82	63	49	40	28	24	20	18	16	14	12	11	10
	Negative Wind	107	78	60	47	38	27	23	20	17	15	13	12	11	10
	Live	111	82	63	49	40	28	24	20	18	16	14	12	11	10
	Deflection(L/180)	146	92	62	43	32	18	14	12	9	8	6	5	5	4
	Deflection(L/240)	110	69	46	33	24	14	11	9	7	6	5	4	3	3
2 Span	Positive Wind	198	146	112	88	71	50	42	36	32	28	25	22	20	18
	Negative Wind	190	140	107	85	69	48	41	35	30	27	24	21	19	17
	Live	198	146	112	88	71	50	42	36	32	28	25	22	20	18
	Deflection(L/180)	353	222	149	105	76	44	35	28	23	19	16	13	11	10
	Deflection(L/240)	265	167	112	78	57	33	26	21	17	14	12	10	8	7
3 Span	Positive Wind	139	102	78	62	50	35	30	26	22	20	17	15	14	13
	Negative Wind	133	98	75	59	48	33	28	24	21	19	17	15	13	12
	Live	139	102	78	62	50	35	30	26	22	20	17	15	14	13
	Deflection(L/180)	276	174	117	82	60	35	27	22	18	15	12	10	9	7
	Deflection(L/240)	207	130	87	61	45	26	20	16	13	11	9	8	7	6
4 Span	Positive Wind	130	95	73	58	47	32	28	24	21	18	16	14	13	12
	Negative Wind	125	92	70	55	45	31	27	23	20	18	16	14	12	11
	Live	130	95	73	58	47	32	28	24	21	18	16	14	13	12
	Deflection(L/180)	293	185	124	87	63	37	29	23	19	15	13	11	9	8
	Deflection(L/240)	220	139	93	65	48	27	22	17	14	12	10	8	7	6

Note:

1. Allowable uniform loads are based upon equal span lengths.
2. Positive Wind is wind pressure and is NOT increased by 33 1/3%
3. Negative Wind is wind suction or uplift and is NOT increased by 33 1/3%
4. Live is the allowable live or snow load.
5. Deflection (L/180) is the allowable load that limits the panel's deflection to L/180 while under positive or live load.
6. Deflection (L/240) is the allowable load that limits the panel's deflection to L/240 while under positive or live load.
7. The weight of the panel has NOT been deducted from the allowable loads.