

26GA PBR METAL DECK 80 GRADE

SECTION PROPERTIES				TOP IN COMPRESSION (POS)			BOTTOM IN COMPRESSION (NEG)		
Fy	E	Weight	V _a	I _x	S _x	M _a	I _x	S _x	M _a
(KSI)	(KSI)	(PSF)	(kip/ft.)	(in. ⁴ /ft.)	(in. ³ /ft.)	(kip-in./ft.)	(in. ⁴ /ft.)	(in. ³ /ft.)	(kip-in./ft.)
80	29000	0.86	0.94	0.0322	0.033	1.58	0.032	0.032	1.54

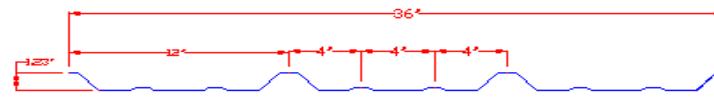
1. V_a is the allowable shear.

3. M_a is the allowable bending moment

2. I_x is for deflection determination.

4. all values are for one foot of panel with.

3. S_x is for bending.



Thickness = 0.0180"

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	117	86	66	52	42	29	25	21	19	16	15	13	12	11
	Negative Wind	114	84	64	51	41	29	24	21	18	16	14	13	11	10
	Live	117	86	66	52	42	29	25	21	19	16	15	13	12	11
	Deflection(L/180)	102	65	43	30	22	13	10	8	7	5	5	4	3	3
	Deflection(L/240)	77	48	32	23	17	10	8	6	5	4	3	3	2	2
2 Span	Positive Wind	209	154	118	93	75	52	45	38	33	29	26	23	21	19
	Negative Wind	204	150	115	91	73	51	43	37	33	29	25	23	20	18
	Live	209	154	118	93	75	52	45	38	33	29	26	23	21	19
	Deflection(L/180)	226	142	95	67	49	28	22	18	14	12	10	8	7	6
	Deflection(L/240)	170	107	72	50	37	21	17	13	11	9	7	6	5	5
3 Span	Positive Wind	146	107	82	65	53	37	31	27	23	21	18	16	15	13
	Negative Wind	143	105	80	63	51	36	30	26	23	20	18	16	14	13
	Live	146	107	82	65	53	37	31	27	23	21	18	16	15	13
	Deflection(L/180)	193	122	82	57	42	24	19	15	12	10	9	7	6	5
	Deflection(L/240)	145	91	61	43	31	18	14	11	9	8	6	5	5	4
4 Span	Positive Wind	137	100	77	61	49	34	29	25	22	19	17	15	14	12
	Negative Wind	133	98	75	59	48	33	28	24	21	19	17	15	13	12
	Live	137	100	77	61	49	34	29	25	22	19	17	15	14	12
	Deflection(L/180)	205	129	87	61	44	26	20	16	13	11	9	8	6	6
	Deflection(L/240)	154	97	65	46	33	19	15	12	10	8	7	6	5	4

Note:

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