

22GA 7.2 METAL DECK GRADE 50

SECTION PROPERTIES				TOP IN COMPRESSION (NEG)			BOTTOM IN COMPRESSION (POS)		
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.)
50	29000	1.420	1.624	0.158	0.173	5.19	0.158	0.178	5.34

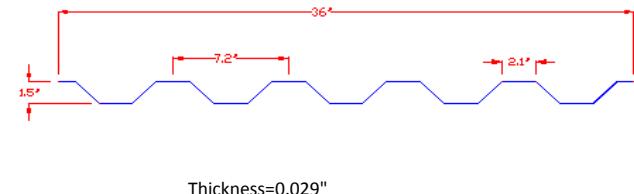
1. V_a is the allowable shear.

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.



ALLOWABLE UNIFORM LOADS (PSF)																
		Span In Feet														
Span Type	Load Type	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10
Single	Positive Wind	396	291	223	176	142	118	99	84	73	63	56	49	44	39	36
	Negative Wind	384	282	216	171	138	114	96	82	71	62	54	48	43	38	35
	Live	396	291	223	176	142	118	99	84	73	63	56	49	44	39	36
	Deflection(L/180)	503	317	212	149	109	82	63	49	40	32	27	22	19	16	14
	Deflection(L/240)	377	237	159	112	81	61	47	37	30	24	20	17	14	12	10
2 Span	Positive Wind	706	519	397	314	254	210	177	150	130	113	99	88	78	70	64
	Negative Wind	687	504	386	305	247	204	172	146	126	110	97	86	76	68	62
	Live	706	519	397	314	254	210	177	150	130	113	99	88	78	70	64
	Deflection(L/180)	1212	764	512	359	262	197	152	119	95	78	64	53	45	38	33
	Deflection(L/240)	909	573	384	269	196	148	114	89	72	58	48	40	34	29	25
3 Span	Positive Wind	494	363	278	220	178	147	124	105	91	79	70	62	55	49	45
	Negative Wind	481	353	270	214	173	143	120	102	88	77	68	60	53	48	43
	Live	494	363	278	220	178	147	124	105	91	79	70	62	55	49	45
	Deflection(L/180)	949	598	400	281	205	154	119	93	75	61	50	42	35	30	26
	Deflection(L/240)	712	448	300	211	154	115	89	70	56	46	38	31	26	22	19
4 Span	Positive Wind	462	340	260	205	166	137	116	98	85	74	65	58	51	46	42
	Negative Wind	449	330	253	200	162	134	112	96	82	72	63	56	50	45	40
	Live	462	340	260	205	166	137	116	98	85	74	65	58	51	46	42
	Deflection(L/180)	1007	634	425	298	218	163	126	99	79	64	53	44	37	32	27
	Deflection(L/240)	755	476	319	224	163	123	94	74	59	48	40	33	28	24	20

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.