



1-1/2" Form Deck

MAXIMUM CONSTRUCTION CLEAR SPANS (S.D.I. CRITERIA)

Total Slab Depth	Deck Type	Weight PSF	NW Concrete N=9 145 PCF			Weight PSF	LW Concrete N=14 110 PCF		
			1 Span	2 Span	3 Span		1 Span	2 Span	3 Span
3 1/2" (t=2")	1.5C24	37	5-4	7-1	7-2	28	5-9	7-8	7-9
	1.5C22	37	4-7	6-1	6-2	29	5-0	6-7	6-8
	1.5C20	38	5-5	7-3	7-4	29	5-11	7-10	7-11
	1.5C18	38	6-6	8-6	8-10	30	7-1	9-3	9-7
4" (t=2 1/2")	1.5C24	43	5-1	6-9	6-10	33	5-6	7-4	7-5
	1.5C22	43	4-5	5-10	5-11	33	4-9	6-4	6-5
	1.5C20	44	5-2	6-11	7-0	34	5-8	7-6	7-7
	1.5C18	44	6-2	8-1	8-5	34	6-9	8-10	9-2
4 1/2" (t=3")	1.5C24	49	4-10	6-5	6-7	38	5-3	7-1	7-2
	1.5C22	49	4-2	5-7	5-8	38	4-7	6-1	6-2
	1.5C20	50	4-11	6-8	6-8	38	5-5	7-3	7-4
	1.5C18	50	5-10	7-9	8-0	39	6-5	8-6	8-9
5" (t=3 1/2")	1.5C24	55	4-8	6-2	6-4	42	5-1	6-10	6-11
	1.5C22	55	4-0	5-5	5-6	42	4-5	5-11	5-11
	1.5C20	56	4-9	6-4	6-5	43	5-2	7-0	7-1
	1.5C18	56	5-7	7-5	7-8	43	6-2	8-2	8-5
5 1/2" (t=4")	1.5C24	61	4-6	5-11	6-1	47	4-11	6-7	6-8
	1.5C22	61	3-11	5-3	5-3	47	4-3	5-8	5-9
	1.5C20	62	4-7	6-2	6-3	47	5-0	6-9	6-10
	1.5C18	63	5-5	7-2	7-5	48	6-0	7-11	8-2
6" (t=4 1/2")	1.5C24	67	4-4	5-9	5-11	51	4-9	6-4	6-6
	1.5C22	68	3-9	5-1	5-1	52	4-2	5-6	5-7
	1.5C20	68	4-5	5-11	6-0	52	4-10	6-6	6-7
	1.5C18	69	5-3	6-11	7-2	53	5-9	7-8	7-11
6 1/2" (t=5")	1.5C24	73	4-2	5-7	5-9	56	4-7	6-2	6-3
	1.5C22	74	3-8	4-11	5-0	56	4-0	5-5	5-5
	1.5C20	74	4-3	5-9	5-10	57	4-8	6-4	6-5
	1.5C18	75	5-1	6-8	6-11	57	5-7	7-5	7-8

REINFORCED CONCRETE SLAB ALLOWABLE LOADS

Total Slab Depth	Reinforcement		Superimposed Uniform Load (psf) — 3 Span Condition														
			Clear Span (ft. in.)														
			4-0	4-6	5-0	5-6	6-0	6-6	7-0	7-6	8-0	8-6	9-0				
3 1/2" (t=2")	6X6-W2.1XW2.1	0.042*	108	86													
	6X6-W2.9XW2.9	0.058	147	116													
	4X4-W2.9XW2.9	0.087	214	169													
4" (t=2 1/2")	6X6-W2.1XW2.1	0.042*	136	108	87	72											
	6X6-W2.9XW2.9	0.058	185	147	119	98											
	4X4-W2.9XW2.9	0.087	272	215	174	144											
4 1/2" (t=3")	6X6-W2.1XW2.1	0.042*	164	129	160	132	111	95	82								
	6X6-W2.9XW2.9	0.058*	224	177	215	177	149	127	110								
	4X4-W2.9XW2.9	0.087	329	260	318	263	221	188	162								
5" (t=3 1/2")	6X6-W2.9XW2.9	0.058*	262	207	264	218	183	156	135	117							
	4X4-W2.9XW2.9	0.087	387	306	392	324	272	232	200	174							
	4X4-W4.0XW4.0	0.120	400	400	400	400	363	310	267	233							
5 1/2" (t=4")	6X6-W2.9XW2.9	0.058*	301	238	313	259	217	185	160								
	4X4-W2.9XW2.9	0.087	400	351	400	385	323	275	237								
	4X4-W4.0XW4.0	0.120	400	400	400	400	400	370	319								
6" (t=4 1/2")	6X6-W2.9XW2.9	0.058*	339	268	358	296	249	212	183								
	4X4-W2.9XW2.9	0.087*	400	397	400	400	370	315	272								
	4X4-W4.0XW4.0	0.120	400	400	400	400	400	400	366								
6 1/2" (t=5")	4X4-W2.9XW2.9	0.087*	400	400	400	400	400	348									
	4X4-W4.0XW4.0	0.120	400	400	400	400	400	400									
		0.150	400	400	400	400	400	400									

- Note 1. *Does not meet A.C.I criterion for temperature and shrinkage.
 2. Recommended conform types are based upon S.D.I. criteria and normal weight concrete.
 3. Superimposed loads are based upon three span conditions and A.C.I. moment coefficients.

SECTION PROPERTIES

Deck Type	Design Thick.	Weight PSF	Ip in ⁴ /ft	In in ⁴ /ft	Sp in ³ /ft	Sn in ³ /ft	Fy ksi
1.5C24	0.0239	1.44	0.136	0.108	0.132	0.120	60
1.5C22	0.0295	1.68	0.183	0.155	0.192	0.186	33
1.5C20	0.0358	2.04	0.222	0.201	0.247	0.234	33
1.5C18	0.0474	2.72	0.295	0.289	0.327	0.318	33