



9/16" 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
2" (t=1 1/2")	0.6C28	23	2-3	2-10	2-11	17	2-4	3-0	3-0
	0.6C26	23	2-8	3-5	3-5	18	2-9	3-6	3-7
	0.6C24	23	3-4	4-3	4-4	18	3-6	4-6	4-7
	0.6C22	23	3-10	5-0	5-1	18	4-1	5-4	5-4
2 1/2" (t=2")	0.6C28	29	2-2	2-9	2-10	22	2-3	2-10	2-11
	0.6C26	29	2-6	3-3	3-4	22	2-8	3-5	3-6
	0.6C24	29	3-2	4-1	4-2	22	3-4	4-4	4-4
	0.6C22	29	3-8	4-9	4-10	23	3-11	5-1	5-2
3" (t=2 1/2")	0.6C28	35	2-1	2-8	2-8	27	2-2	2-10	2-10
	0.6C26	35	2-5	3-2	3-2	27	2-7	3-4	3-4
	0.6C24	35	3-0	3-11	4-0	27	3-2	4-2	4-2
	0.6C22	36	3-6	4-7	4-7	27	3-9	4-10	4-11
3 1/2" (t=3")	0.6C28	41	2-0	2-7	2-7	31	2-1	2-9	2-9
	0.6C26	41	2-4	3-0	3-1	31	2-6	3-3	3-3
	0.6C24	41	2-10	3-9	3-10	32	3-1	4-0	4-1
	0.6C22	42	3-4	4-5	4-5	32	3-7	4-8	4-9
4" (t=3 1/2")	0.6C28	47	1-11	2-6	2-7	36	2-1	2-8	2-8
	0.6C26	47	2-3	2-11	3-0	36	2-5	3-2	3-2
	0.6C24	47	2-9	3-8	3-8	36	3-0	3-11	3-11
	0.6C22	48	3-2	4-3	4-3	36	3-5	4-6	4-7
4 1/2" (t=4")	0.6C28	53	1-10	2-5	2-6	40	2-0	2-7	2-8
	0.6C26	53	2-2	2-10	2-11	40	2-4	3-1	3-1
	0.6C24	53	2-8	3-6	3-7	41	2-10	3-9	3-10
	0.6C22	54	3-1	4-1	4-2	41	3-4	4-5	4-5
5" (t=4 1/2")	0.6C28	59	1-10	2-5	2-5	45	1-11	2-6	2-7
	0.6C26	59	2-1	2-9	2-10	45	2-3	3-0	3-0
	0.6C24	59	2-7	3-5	3-6	45	2-10	3-8	3-9
	0.6C22	60	3-0	3-11	4-0	46	3-3	4-3	4-4

REINFORCED CONCRETE SLAB ALLOWABLE LOADS

Total Slab Depth	Reinforcement		Superimposed Uniform Load (psf) — 3 Span Condition										
			Clear Span (ft.-in.)										
	W.W.F.	As	2-0	2-3	2-6	2-9	3-0	3-3	3-6	3-9	4-0	4-6	5-0
2" (t=1 1/2")	6X6-W1.4XW1.4	0.028*	194	153	124	103	86	74	63				
	6X6-W2.1XW2.1	0.042	285	225	183	151	127	108	93				
	6X6-W2.9XW2.9	0.058	384	304	246	203	171	146	125				
2 1/2" (t=2")	6X6-W1.4XW1.4	0.028*	268	212	172	142	119	102	88	76	67	53	
	6X6-W2.1XW2.1	0.042	396	313	254	210	176	150	129	113	99	78	
	6X6-W2.9XW2.9	0.058	400	400	344	284	239	204	176	153	134	106	
3" (t=2 1/2")	6X6-W1.4XW1.4	0.028*	342	271	219	181	152	130	112	97	86	68	
	6X6-W2.1XW2.1	0.042*	400	400	325	268	226	192	166	144	127	100	
	6X6-W2.9XW2.9	0.058	400	400	400	366	307	262	226	197	173	137	
3 1/2" (t=3")	6X6-W2.1XW2.1	0.042*	400	400	396	327	275	234	202	176	155		
	6X6-W2.9XW2.9	0.058*	400	400	400	400	375	320	276	240	211		
	4X4-W2.9XW2.9	0.087	400	400	400	400	400	400	400	353	310		
4" (t=3 1/2")	6X6-W2.1XW2.1	0.042*	400	400	400	384	322	275	237	206	181		
	6X6-W2.9XW2.9	0.058*	400	400	400	400	400	372	321	280	246		
	4X4-W2.9XW2.9	0.087	400	400	400	400	400	400	400	400	358		
4 1/2" (t=4")	6X6-W2.9XW2.9	0.058*	400	400	400	400	400	400	359	313	275		
	4X4-W2.9XW2.9	0.087	400	400	400	400	400	400	400	400	400		
	4X4-W4.0XW4.0	0.120	400	400	400	400	400	400	400	400	400		
5" (t=4 1/2")	6X6-W2.9XW2.9	0.058*	400	400	400	400	400	400	396	345	303		
	4X4-W2.9XW2.9	0.087*	400	400	400	400	400	400	400	400	400		
	4X4-W4.0XW4.0	0.120	400	400	400	400	400	400	400	400	400		
			0.6C28	0.6C26	0.6C24	0.6C22							

- 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
0.6C28	0.0149	0.76	0.012	0.012	0.035	0.036	60
0.6C26	0.0179	0.91	0.015	0.015	0.043	0.043	60
0.6C24	0.0239	1.21	0.019	0.019	0.057	0.057	60
0.6C22	0.0298	1.49	0.024	0.024	0.070	0.070	60