



1" 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 1/2" (t=1 1/2")	1.0C26	25	3- 8	4- 10	4- 10	19	3- 11	5- 1	5- 2
	1.0C24	25	4- 10	6- 5	6- 6	19	5- 3	6- 10	6- 11
	1.0C22	25	5- 11	7- 10	7- 10	20	6- 5	8- 5	8- 6
	1.0C20	26	6- 8	8- 3	8- 3	20	7- 3	9- 0	9- 0
3" (t=2)	1.0C26	31	3- 6	4- 7	4- 8	24	3- 9	4- 10	4- 11
	1.0C24	31	4- 7	6- 1	6- 2	24	4- 11	6- 6	6- 7
	1.0C22	31	5- 7	7- 3	7- 3	24	6- 0	7- 11	7- 11
	1.0C20	32	6- 3	7- 8	7- 8	25	6- 10	8- 5	8- 5
3 1/2" (t=2 1/2")	1.0C26	37	3- 4	4- 5	4- 5	28	3- 7	4- 8	4- 9
	1.0C24	37	4- 4	5- 9	5- 10	29	4- 8	6- 2	6- 3
	1.0C22	37	5- 3	6- 10	6- 10	29	5- 9	7- 6	7- 6
	1.0C20	38	5- 11	7- 3	7- 3	29	6- 5	7- 11	7- 11
4" (t=3")	1.0C26	43	3- 2	4- 2	4- 3	33	3- 5	4- 6	4- 7
	1.0C24	43	4- 2	5- 6	5- 7	33	4- 6	5- 11	6- 0
	1.0C22	43	5- 0	6- 6	6- 6	33	5- 5	7- 1	7- 1
	1.0C20	44	5- 7	6- 11	6- 11	34	6- 1	7- 7	7- 7
4 1/2" (t=3 1/2")	1.0C26	49	3- 1	4- 1	4- 1	37	3- 4	4- 4	4- 5
	1.0C24	49	4- 0	5- 4	5- 4	38	4- 4	5- 9	5- 10
	1.0C22	50	4- 9	6- 3	6- 3	38	5- 3	6- 10	6- 10
	1.0C20	50	5- 4	6- 8	6- 8	38	5- 10	7- 3	7- 3
5" (t=4")	1.0C26	55	2- 11	3- 11	4- 0	42	3- 2	4- 3	4- 3
	1.0C24	55	3- 10	5- 1	5- 2	42	4- 2	5- 7	5- 7
	1.0C22	56	4- 7	6- 0	6- 0	43	5- 0	6- 7	6- 7
	1.0C20	56	5- 2	6- 5	6- 5	43	5- 8	7- 0	7- 0
5 1/2" (t=4 1/2")	1.0C26	61	2- 10	3- 10	3- 10	47	3- 1	4- 1	4- 2
	1.0C24	61	3- 8	4- 11	5- 0	47	4- 0	5- 5	5- 5
	1.0C22	62	4- 5	5- 10	5- 10	47	4- 10	6- 4	6- 4
	1.0C20	62	5- 0	6- 2	6- 2	47	5- 5	6- 9	6- 9

REINFORCED CONCRETE SLAB ALLOWABLE LOADS

Total Slab Depth	Reinforcement		Superimposed Uniform Load (psf) — 3 Span Condition										
			Clear Span (ft.-in.)										
	W.W.F.	As	3-0	3-3	3-6	3-9	4-0	4-6	5-0	5-6	6-0	6-6	7-0
2 1/2" (t=1 1/2")	6X6-W1.4XW1.4	0.028*	95	81	70								
	6X6-W2.1XW2.1	0.042	140	119	103								
	6X6-W2.9XW2.9	0.058	189	161	139								
3" (t=2")	6X6-W1.4XW1.4	0.028*	128	109	94	82	72	57					
	6X6-W2.1XW2.1	0.042	190	161	139	121	107	84					
	6X6-W2.9XW2.9	0.058	257	219	189	165	145	114					
3 1/2" (t=2 1/2")	6X6-W2.1XW2.1	0.042*	239	204	176	153	134	106	86	71			
	6X6-W2.9XW2.9	0.058	326	277	239	208	183	145	117	97			
	4X4-W2.9XW2.9	0.087	400	400	350	305	268	212	172	142			
4" (t=3")	6X6-W2.1XW2.1	0.042*	288	246	212	185	162	128	153	126	106	91	
	6X6-W2.9XW2.9	0.058*	394	336	289	252	222	175	205	169	142	121	
	4X4-W2.9XW2.9	0.087	400	400	400	371	326	257	298	247	207	177	
4 1/2" (t=3 1/2")	6X6-W2.1XW2.1	0.042*	338	288	248	216	190	150	180	148	125	106	
	6X6-W2.9XW2.9	0.058*	400	394	340	296	260	205	241	199	168	143	
	4X4-W2.9XW2.9	0.087	400	400	400	400	383	303	354	292	246	209	
5" (t=4")	6X6-W2.9XW2.9	0.058*	400	400	390	339	298	236	278	230	193		
	4X4-W2.9XW2.9	0.087	400	400	400	400	400	348	400	338	284		
	4X4-W4.0XW4.0	0.120	400	400	400	400	400	400	400	400	378		
5 1/2" (t=4 1/2")	6X6-W2.9XW2.9	0.058*	400	400	400	383	337	266	315	260	219		
	4X4-W2.9XW2.9	0.087*	400	400	400	400	400	394	400	384	322		
	4X4-W4.0XW4.0	0.120	400	400	400	400	400	400	400	400	400		
			1.0C26				1.0C24			1.0C22	1.0C20		

- 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.
 4. Load values for single span and double spans are to be reduced.

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
1.0C26	0.0179	0.96	0.040	0.042	0.067	0.071	60
1.0C24	0.0239	1.28	0.057	0.059	0.098	0.103	60
1.0C22	0.0298	1.57	0.073	0.073	0.130	0.134	60
1.0C20	0.0358	1.91	0.088	0.088	0.167	0.165	60