



# 1-5/16" 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
3.3" (t=2")	1.3C26	33	4- 6	5- 11	6- 0	25	4- 10	6- 4	6- 5
	1.3C24	34	5- 6	7- 4	7- 5	26	6- 0	7- 11	8- 0
	1.3C22	34	6- 4	8- 3	8- 3	26	6- 11	9- 0	9- 0
	1.3C20	34	7- 1	8- 9	8- 9	26	7- 9	9- 7	9- 7
3.8" (t=2 1/2")	1.3C26	39	4- 3	5- 8	5- 8	30	4- 7	6- 1	6- 2
	1.3C24	40	5- 2	7- 0	7- 1	30	5- 8	7- 7	7- 8
	1.3C22	40	6- 0	7- 10	7- 10	31	6- 6	8- 6	8- 6
	1.3C20	40	6- 9	8- 4	8- 4	31	7- 4	9- 1	9- 1
4.3" (t=3")	1.3C26	45	4- 1	5- 5	5- 6	35	4- 5	5- 10	5- 11
	1.3C24	46	4- 11	6- 8	6- 9	35	5- 5	7- 3	7- 4
	1.3C22	46	5- 8	7- 5	7- 5	35	6- 3	8- 2	8- 2
	1.3C20	46	6- 4	7- 11	7- 11	36	7- 0	8- 8	8- 8
4.8" (t=3 1/2")	1.3C26	51	3- 11	5- 2	5- 3	39	4- 3	5- 8	5- 8
	1.3C24	52	4- 9	6- 5	6- 5	40	5- 2	7- 0	7- 1
	1.3C22	52	5- 5	7- 2	7- 2	40	6- 0	7- 10	7- 10
	1.3C20	52	6- 1	7- 7	7- 7	40	6- 9	8- 4	8- 4
5.3" (t=4")	1.3C26	57	3- 9	5- 0	5- 1	44	4- 1	5- 5	5- 6
	1.3C24	58	4- 7	6- 2	6- 3	44	5- 0	6- 9	6- 10
	1.3C22	58	5- 2	6- 11	6- 11	44	5- 9	7- 6	7- 6
	1.3C20	58	5- 10	7- 4	7- 4	45	6- 5	8- 0	8- 0
5.8" (t=4 1/2")	1.3C26	63	3- 7	4- 10	4- 11	48	4- 0	5- 3	5- 4
	1.3C24	64	4- 5	5- 11	6- 0	49	4- 10	6- 6	6- 7
	1.3C22	64	5- 0	6- 8	6- 8	49	5- 6	7- 3	7- 3
	1.3C20	64	5- 7	7- 1	7- 1	49	6- 3	7- 9	7- 9
6.3" (t=5")	1.3C26	69	3- 6	4- 8	4- 9	53	3- 10	5- 2	5- 2
	1.3C24	70	4- 3	5- 9	5- 10	53	4- 8	6- 4	6- 5
	1.3C22	70	4- 10	6- 6	6- 6	54	5- 4	7- 1	7- 1
	1.3C20	70	5- 5	6- 11	6- 11	54	6- 0	7- 6	7- 6

## REINFORCED CONCRETE SLAB ALLOWABLE LOADS

Total Slab Depth	Reinforcement		Superimposed Uniform Load (psf) — 3 Span Condition										
			Clear Span (ft.-in.)										
	W.W.F.	As	4- 0	4- 6	5- 0	5- 6	6- 0	6- 6	7- 0	7- 6	8- 0	8- 6	9- 0
3.3" (t=2")	6X6-W1.4XW1.4	0.028*	71	56									
	6X6-W2.1XW2.1	0.042	105	83									
	6X6-W2.9XW2.9	0.058	142	113									
3.8" (t=2 1/2")	6X6-W2.1XW2.1	0.042*	133	105	85	70							
	6X6-W2.9XW2.9	0.058	181	143	116	96							
	4X4-W2.9XW2.9	0.087	265	209	169	140							
4.3" (t=3")	6X6-W2.1XW2.1	0.042*	161	127	156	129	108	92	79				
	6X6-W2.9XW2.9	0.058*	219	173	209	173	145	124	107				
	4X4-W2.9XW2.9	0.087	322	255	309	255	215	183	158				
4.8" (t=3 1/2")	6X6-W2.1XW2.1	0.042*	188	149	191	158	133	113	98	85			
	6X6-W2.9XW2.9	0.058*	258	204	258	213	179	153	132	115			
	4X4-W2.9XW2.9	0.087	380	300	383	316	266	226	195	170			
5.3" (t=4")	6X6-W2.9XW2.9	0.058*	296	234	299	247	208	177	153				
	4X4-W2.9XW2.9	0.087	400	346	400	364	306	260	225				
	4X4-W4.0XW4.0	0.120	400	400	400	400	400	347	299				
5.8" (t=4 1/2")	6X6-W2.9XW2.9	0.058*	334	264	336	278	233	199	172				
	4X4-W2.9XW2.9	0.087*	400	391	400	400	344	293	253				
	4X4-W4.0XW4.0	0.120	400	400	400	400	400	392	338				
6.3" (t=5")	6X6-W2.9XW2.9	0.058*	373	295	373	308	259	221					
	4X4-W2.9XW2.9	0.087*	400	400	400	400	382	326					
	4X4-W4.0XW4.0	0.120	400	400	400	400	400	400					
			1.3C26	1.3C24	1.3C22	1.3C20							

- 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 <sup>4</sup> /ft	In in <sup>4</sup> /ft	Sp in <sup>3</sup> /ft	Sn in <sup>3</sup> /ft	Fy ksi
1.3C26	0.0179	0.99	0.070	0.069	0.097	0.098	60
1.3C24	0.0239	1.33	0.093	0.093	0.132	0.132	60
1.3C22	0.0298	1.62	0.115	0.115	0.163	0.162	60
1.3C20	0.0358	1.97	0.140	0.140	0.197	0.197	60