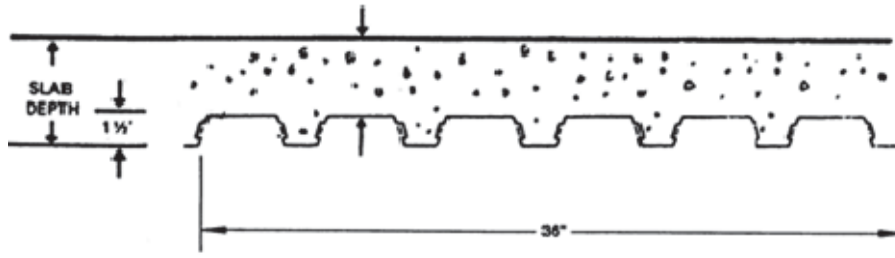


# TYPE "1.5 CF" COMPOSITE FLOOR DECK



**SECTION PROPERTIES** FY=50 KSI FOR 22, 20, & 18 GAGE  
FY=40 KSI FOR 16 GAGE

DECK TYPE	DESIGN THICKNESS	WT PSF	I <sup>P</sup> IN. <sup>4</sup>	I <sup>N</sup> IN. <sup>4</sup>	S <sup>P</sup> IN. <sup>3</sup>	S <sup>N</sup> IN. <sup>3</sup>
22	.0295 IN.	1.61	.153	.186	.188	.198
20	.0358 IN.	1.95	.199	.226	.233	.242
18	.0474 IN.	2.56	.279	.300	.313	.320
16	.0598 IN.	3.25	.380	.380	.402	.402

**GENERAL INFORMATION**

SLAB THICKNESS	3 1/2"	4"	4 1/2"	5	5 1/4"	5 1/2"	6"
Vol. Conc. Yds/100SF	.78	.93	1.09	1.24	1.32	1.40	1.55
Conc. Wt. PSF (Light Wt.)	26	29	34	38	41	43	48
Recommended W.W.F. 6"x6"	W1.4XW1.4	W1.4XW1.4	W1.4XW1.4	W1.4XW1.4	W1.4XW1.4	W2.1XW2.1	W2.1XW2.1

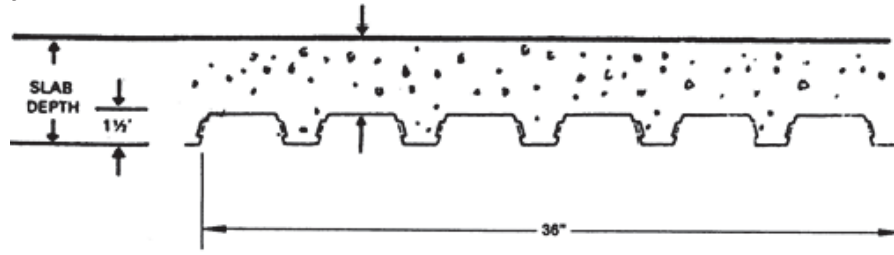
SLAB DEPTH	DECK TYPE	ALLOWABLE UNSHORED CLEAR SPAN			SUPERIMPOSED LIVE LOAD, PSF													
		1 SPAN	2 SPAN	3 SPAN	CLEAR SPAN, FT.													
					6-0	6-6	7-0	7-6	8-0	8-6	9-0	9-6	10-0	10-6	11-0	11-6	12-0	
LIGHT WEIGHT CONCRETE (110 PCF)	3 1/2" (t=2)	22	6-7	8-4	8-5	*	363	310	268	233	204	180	159	142	126	113	102	92
		20	7-7	9-7	9-8	*	*	385	333	290	255	225	200	178	160	144	130	117
		18	8-9	12-9	11-7	*	*	*	*	397	349	309	275	246	222	200	181	165
		16	9-9	12-0	12-5	*	*	*	*	*	357	316	281	252	226	204	185	168
	4" (t=2 1/2)	22	6-3	7-11	8-0	*	*	*	349	304	267	236	209	186	167	150	135	122
		20	7-2	9-1	9-2	*	*	*	*	381	335	296	264	236	212	191	173	157
		18	8-3	12-0	11-0	*	*	*	*	*	*	367	329	296	268	243	221	201
		16	9-2	11-5	11-9	*	*	*	*	*	*	379	340	306	277	251	229	209
	4 1/2" (t=3)	22	5-11	7-6	7-7	*	*	*	*	379	333	294	261	233	209	188	170	154
		20	6-10	8-7	8-8	*	*	*	*	*	*	372	331	296	266	240	217	197
		18	7-10	11-5	10-6	*	*	*	*	*	*	*	*	375	340	308	281	256
		16	8-8	10-10	11-3	*	*	*	*	*	*	*	*	392	355	322	294	264
	5" (t=3 1/2)	22	5-8	7-3	7-4	*	*	*	*	*	*	356	316	283	253	228	206	187
		20	6-6	8-3	8-4	*	*	*	*	*	*	*	*	360	324	292	265	241
		18	7-7	10-11	10-1	*	*	*	*	*	*	*	*	*	*	*	379	345
		16	8-3	10-5	10-9	*	*	*	*	*	*	*	*	*	*	*	399	364
	5 1/2" (t=4)	22	5-6	6-11	7-0	*	*	*	*	*	*	*	373	333	299	270	244	221
		20	6-3	7-11	8-0	*	*	*	*	*	*	*	*	*	384	346	314	286
		18	7-3	10-5	9-8	*	*	*	*	*	*	*	*	*	*	*	*	*
		16	7-10	10-0	10-4	*	*	*	*	*	*	*	*	*	*	*	*	*
	6" (t=4 1/2)	22	5-3	6-8	6-9	*	*	*	*	*	*	*	*	385	346	312	282	256
		20	6-0	7-8	7-9	*	*	*	*	*	*	*	*	*	*	*	365	332
		18	7-0	10-0	9-5	*	*	*	*	*	*	*	*	*	*	*	*	*
		16	7-7	9-8	10-0	*	*	*	*	*	*	*	*	*	*	*	*	*

\* MINIMUM EXTERIOR BEARING LENGTH REQUIRED IS 1.5 INCHES.

\* MINIMUM INTERIOR BEARING LENGTH REQUIRED IS 3.0 INCHES.

LOAD TABLES AND SECTION PROPERTIES WERE GENERATED BY THE SDI. \* INDICATES LIVE LOADS IN EXCESS OF 400 P.S.F. UNDERWRITES LABORATORIES, INC. FIRE RATED FLOOR DESIGN ASSEMBLY LIVE LOAD LIMIT FOR COMPOSITE DECK SLABS IS 250 PSF. ROLLED IN HANGER TABS ALSO AVAILABLE UPON REQUEST

# TYPE "1.5 CF" COMPOSITE FLOOR DECK



**SECTION PROPERTIES** FY=50 KSI FOR 22, 20, & 18 GAGE  
FY=40 KSI FOR 16 GAGE

DECK TYPE	DESIGN THICKNESS	WT PSF	I <sup>P</sup> IN. <sup>4</sup>	I <sup>N</sup> IN. <sup>4</sup>	S <sup>P</sup> IN. <sup>3</sup>	S <sup>N</sup> IN. <sup>3</sup>
22	.0295 IN.	1.61	.153	.186	.188	.198
20	.0358 IN.	1.95	.199	.226	.233	.242
18	.0474 IN.	2.56	.288	.300	.316	.320
16	.0598 IN.	3.25	.380	.380	.402	.402

**GENERAL INFORMATION**

SLAB THICKNESS	3 1/2"	4"	4 1/2"	5	5 1/4"	5 1/2"	6"
Vol. Conc. Yds/100SF	.78	.93	1.09	1.24	1.32	1.40	1.55
Conc. Wt. PSF (Normal Wt.)	33	37	42	48	51	54	60
Recommended W.W.F. 6"x6"	W1.4XW1.4 .4	W1.4XW1.4	W1.4XW1.4	W1.4XW1.4	W1.4XW1.4	W2.1XW2.1	W2.1XW2.1

NORMAL WEIGHT CONCRETE (145 PCF)	SLAB DEPTH	DECK TYPE	ALLOWABLE UNSHORED CLEAR SPAN			SUPERIMPOSED LIVE LOAD, PSF												
			1 SPAN	2 SPAN	3 SPAN	CLEAR SPAN, FT.												
						6-0	6-6	7-0	7-6	8-0	8-6	9-0	9-6	10-0	10-6	11-0	11-6	12-0
	3 1/2" (t=2)	22	6-2	7-8	7-9	372	313	266	229	198	172	151	133	117	104	92	82	74
		20	7-1	8-9	8-10	*	383	326	281	244	213	187	165	147	131	117	104	94
		18	8-2	11-7	10-8	*	*	*	377	328	288	254	225	200	179	161	145	131
		16	9-0	11-3	11-7	*	*	*	378	329	288	254	225	201	180	161	145	131
	4" (t=2 1/2)	22	5-10	7-3	7-4	*	*	343	295	256	223	196	173	153	136	122	109	98
		20	6-8	8-3	8-5	*	*	*	364	316	277	244	216	192	171	154	138	124
		18	7-9	10-11	10-1	*	*	*	*	*	376	333	295	264	236	213	192	174
		16	8-5	10-7	11-0	*	*	*	*	*	381	337	299	267	239	215	194	176
	4 1/2" (t=3)	22	5-6	6-10	6-11	*	*	*	365	317	277	243	215	191	170	152	136	123
		20	6-4	7-10	7-11	*	*	*	*	393	344	304	269	240	214	192	173	156
		18	7-4	10-4	9-7	*	*	*	*	*	*	*	370	331	297	268	242	220
		16	7-11	10-1	10-5	*	*	*	*	*	*	*	378	338	303	273	247	224
	5" (t=3 1/2)	22	5-3	6-7	6-8	*	*	*	*	379	332	292	258	229	205	183	164	148
		20	6-0	7-6	7-7	*	*	*	*	*	*	365	324	289	258	232	209	189
		18	7-0	9-10	9-3	*	*	*	*	*	*	*	*	*	360	325	294	267
		16	7-6	9-7	9-11	*	*	*	*	*	*	*	*	*	370	334	302	275
	5 1/2" (t=4)	22	5-2	6-5	6-6	*	*	*	*	*	389	342	303	269	240	215	193	174
		20	5-9	7-2	7-3	*	*	*	*	*	*	*	381	340	304	273	247	223
		18	6-9	9-5	8-11	*	*	*	*	*	*	*	*	*	384	348	316	316
		16	7-2	9-2	9-6	*	*	*	*	*	*	*	*	*	397	360	327	327
6" (t=4 1/2)	22	4-11	6-1	6-2	*	*	*	*	*	*	394	348	310	277	248	223	201	
	20	5-7	6-11	7-0	*	*	*	*	*	*	*	*	392	351	316	285	258	
	18	6-7	9-0	8-7	*	*	*	*	*	*	*	*	*	*	*	*	367	
	16	6-11	8-10	9-2	*	*	*	*	*	*	*	*	*	*	*	*	382	

\* MINIMUM EXTERIOR BEARING LENGTH REQUIRED IS 1.5 INCHES.  
 \* MINIMUM INTERIOR BEARING LENGTH REQUIRED IS 3.0 INCHES.  
 LOAD TABLES AND SECTION PROPERTIES WERE GENERATED BY THE SDI. \* INDICATES LIVE LOADS IN EXCESS OF 400 P.S.F.  
 UNDERWRITES LABORATORIES, INC. FIRE RATED FLOOR DESIGN ASSEMBLY LIVE LOAD LIMIT FOR COMPOSITE DECK SLABS IS 250 PSF. ROLLED IN HANGER TABS ALSO AVAILABLE UPON REQUEST