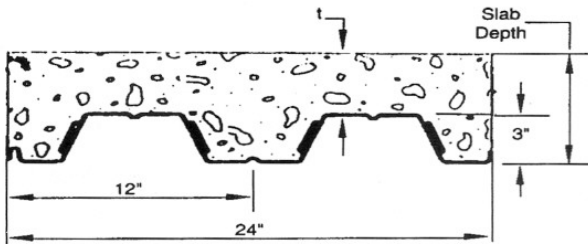


TYPE "3.0CF" COMPOSITE FLOOR DECK



SECTION PROPERTIES

FY=50 KSI FOR 22 AND 20 GAUGE
FY=40 KSI FOR 18 AND 16 GAUGE

DECK TYPE	DESIGN THICKNESS	WT PSF	I IN. ⁴	S ^P IN. ³	S ^N IN. ³
22	.0295 IN.	1.86	.774	.426	.449
20	.0358 IN.	2.25	.976	.549	.576
18	.0474 IN.	2.98	1.309	.823	.820
16	.0598 IN.	3.66	1.676	1.036	1.036

GENERAL INFORMATION

SLAB THICKNESS	5"	5 1/2"	6"	6 1/2"	7"	7 1/2"
Vol. Conc. Yds/100SF	1.08	1.23	1.39	1.54	1.70	1.85
Conc. Wt. PSF (Light Wt.)	37	40	45	50	54	59
Recommended W.W.F. 6"x6"	W1.4XW1.4	W1.4XW1.4	W1.4XW1.4	W2.1XW2.1	W2.1XW2.1	W2.1XW2.1

WHEN W.W.F. REINFORCEMENT IS NOT USED, THE SDI RECOMMENDS THAT THE LIVE LOAD VALUES BE REDUCED BY 10%

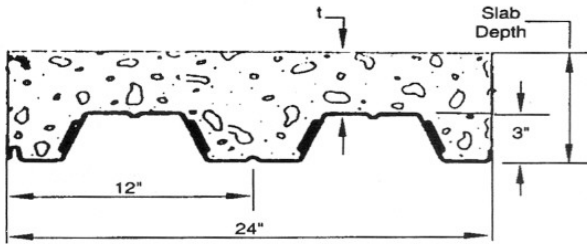
SLAB DEPTH	DECK TYPE	ALLOWABLE UNSHORED CLEAR SPAN			SUPERIMPOSED LIVE LOAD, PSF															
		1 SPAN	2 SPAN	3 SPAN	CLEAR SPAN, FT.															
					7-0	7-6	8-0	8-6	9-0	9-6	10-0	10-6	11-0	11-6	12-0	12-6	13-0	13-6	14-0	
LIGHT WEIGHT CONCRETE (110 PCF)	5" (t=2)	22	11-9	13-6	13-11	*	390	340	297	262	232	207	185	166	149	135	122	111	100	91
		20	12-6	15-0	15-6	*	*	*	373	330	293	261	234	211	190	173	157	143	130	119
		18	13-7	17-3	17-10	*	*	*	*	*	*	364	327	396	268	244	222	203	186	171
		16	14-6	17-4	17-0	*	*	*	*	*	*	374	336	304	275	250	228	209	191	176
	5 1/2" (t=2 1/2)	22	11-3	12-11	13-4	*	*	*	363	321	285	254	227	204	184	167	151	137	125	114
		20	12-0	14-4	14-10	*	*	*	*	*	360	322	289	260	236	214	195	177	162	149
		18	12-7	16-7	17-1	*	*	*	*	*	*	*	*	367	333	303	277	254	233	214
		16	13-0	16-7	16-5	*	*	*	*	*	*	*	*	380	345	314	287	263	242	222
	6" (t=3)	22	10-10	12-4	12-9	*	*	*	*	382	339	303	271	244	220	200	181	165	150	137
		20	11-6	13-9	14-3	*	*	*	*	*	*	386	346	312	283	257	234	214	196	179
		18	12-6	15-11	16-5	*	*	*	*	*	*	*	*	367	335	307	282	260	242	220
		16	13-8	15-11	16-0	*	*	*	*	*	*	*	*	384	351	321	295	272	250	227
	6 1/2" (t=3 1/2)	22	10-6	11-11	12-4	*	*	*	*	*	398	355	318	287	259	235	213	194	177	162
		20	11-2	13-3	13-9	*	*	*	*	*	*	*	*	368	333	303	276	252	231	212
		18	12-2	15-4	15-10	*	*	*	*	*	*	*	*	*	*	*	398	365	335	309
		16	13-2	15-5	15-8	*	*	*	*	*	*	*	*	*	*	*	384	353	323	296
	7" (t=4)	22	10-2	11-6	11-10	*	*	*	*	*	*	*	368	332	300	272	248	226	206	189
		20	10-9	12-10	13-3	*	*	*	*	*	*	*	*	*	387	352	321	294	269	247
		18	11-9	14-9	15-3	*	*	*	*	*	*	*	*	*	*	*	*	392	362	332
		16	12-7	14-10	15-4	*	*	*	*	*	*	*	*	*	*	*	*	*	*	384
	7 1/2" (t=4 1/2)	22	9-11	11-1	11-6	*	*	*	*	*	*	*	*	378	342	310	282	258	236	216
		20	10-6	12-5	12-10	*	*	*	*	*	*	*	*	*	*	*	367	336	308	283
		18	11-5	14-4	14-10	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
		16	12-2	14-5	14-11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*

* MINIMUM EXTERIOR BEARING LENGTH REQUIRED IS 2.5 INCHES.

* MINIMUM INTERIOR BEARING LENGTH REQUIRED IS 5.0 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 "3.0CF" 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 IN. ⁴	S ^P IN. ³	S ^N IN. ³
22	.0295 IN.	1.86	.774	.426	.449
20	.0358 IN.	2.25	.976	.549	.576
18	.0474 IN.	2.98	1.309	.823	.820
16	.0598 IN.	3.66	1.676	1.036	1.036

GENERAL INFORMATION

SLAB THICKNESS	5"	5 1/2"	6"	6 1/2"	7"	7 1/2"
Vol. Conc. Yds/100SF	1.08	1.23	1.39	1.54	1.70	1.85
Conc. Wt. PSF (Light Wt.)	46	50	56	62	69	75
Recommended W.W.F. 6"x6"	W1.4XW1.4	W1.4XW1.4	W1.4XW1.4	W2.1XW2.1	W2.1XW2.1	W2.1XW2.1

WHEN W.W.F. REINFORCEMENT IS NOT USED, THE SDI RECOMMENDS THAT THE LIVE LOAD VALUES BE REDUCED BY 10%

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.														
						7-0	7-6	8-0	8-6	9-0	9-6	10-0	10-6	11-0	11-6	12-0	12-6	13-0	13-6	14-0
5" (t=2)	22	10-11	12-3	12-8	388	333	288	251	220	194	172	152	136	121	108	97	87	78	70	
	20	11-7	13-8	14-1	*	*	357	313	275	243	216	192	172	154	139	125	113	102	92	
	18	12-8	15-9	16-3	*	*	*	*	376	333	297	266	239	216	195	177	161	147	134	
	16	13-9	16-1	16-1	*	*	*	*	380	337	300	269	242	218	197	179	163	148	135	
5 1/2" (t=2 1/2)	22	10-6	11-8	12-1	*	*	348	304	267	235	209	186	166	148	133	120	108	97	87	
	20	11-2	13-0	13-6	*	*	*	378	333	295	262	234	210	189	170	154	139	126	115	
	18	12-2	15-0	15-6	*	*	*	*	*	*	363	325	293	265	240	218	198	181	166	
	16	13-1	15-4	15-7	*	*	*	*	*	*	369	331	298	269	244	222	202	184	169	
6" (t=3)	22	10-1	11-2	11-6	*	*	*	358	315	278	247	220	196	176	158	142	128	116	105	
	20	10-9	12-5	12-10	*	*	*	*	394	349	311	278	249	225	203	183	166	151	137	
	18	11-8	14-5	14-10	*	*	*	*	*	*	388	349	316	286	261	238	217	199	181	
	16	12-5	14-8	15-2	*	*	*	*	*	*	397	358	324	294	267	243	223	204	186	
6 1/2" (t=3 1/2)	22	9-9	10-8	11-1	*	*	*	*	366	323	287	256	229	205	185	167	150	136	123	
	20	10-4	12-0	12-4	*	*	*	*	*	*	363	324	291	263	237	215	195	177	161	
	18	11-4	13-10	14-3	*	*	*	*	*	*	*	371	336	306	279	256	234	213	194	
	16	11-11	14-1	14-7	*	*	*	*	*	*	*	382	347	316	288	264	242	221	200	
7" (t=4)	22	9-5	10-3	10-7	*	*	*	*	*	370	329	293	262	235	212	191	173	156	142	
	20	10-0	11-6	11-11	*	*	*	*	*	*	*	372	335	302	273	247	224	204	186	
	18	10-11	13-4	13-9	*	*	*	*	*	*	*	*	*	388	353	323	295	271	251	
	16	11-7	13-7	14-1	*	*	*	*	*	*	*	*	*	*	366	335	306	281	258	
7 1/2" (t=4 1/2)	22	9-2	9-11	10-3	*	*	*	*	*	*	372	332	298	267	241	218	197	178	162	
	20	9-9	11-1	11-6	*	*	*	*	*	*	*	*	380	343	310	281	256	233	213	
	18	10-8	12-10	13-3	*	*	*	*	*	*	*	*	*	*	*	*	369	338	310	288
	16	11-3	13-2	13-7	*	*	*	*	*	*	*	*	*	*	*	*	384	352	323	296

* MINIMUM EXTERIOR BEARING LENGTH REQUIRED IS 2.5 INCHES.

* MINIMUM INTERIOR BEARING LENGTH REQUIRED IS 5.0 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