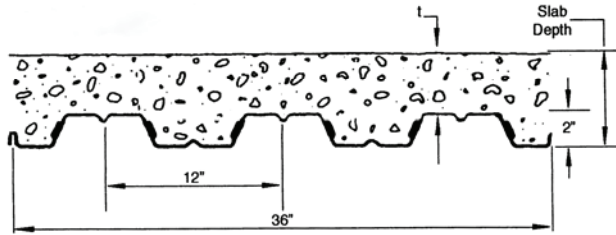


## TYPE "2.0CF" COMPOSITE FLOOR DECK



**SECTION  
PROPERTIES**

FY=50 KSI FOR 22, 20, AND 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.	1.58	.320	.311	.295	.296
20	.0358 IN.	1.90	.403	.392	.380	.381
18	.0474 IN.	2.50	.550	.540	.496	.512
16	.0598 IN.	3.19	.717	.713	.653	.653

**GENERAL INFORMATION**

SLAB THICKNESS	4"	4 ½"	5"	5 ¼"	5 ½"	6"	6 ¼"	6 ½"
Vol. Conc. Yds/100SF	.94	1.09	1.24	1.32	1.40	1.55	1.63	1.71
Conc. Wt. PSF (Light Wt.)	31	34	38	41	43	48	50	53
Recommended W.W.F. 6"x6"	W1.4XW1.4	W1.4XW1.4	W1.4XW1.4	W2.1XW2.1	W2.1XW2.1	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%

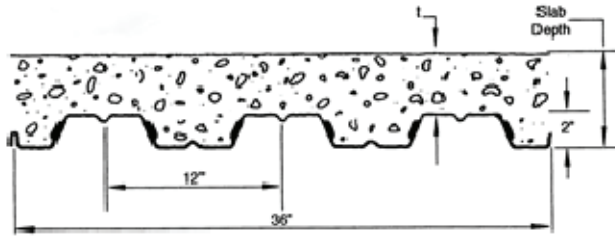
SLAB DEPTH	DECK TYPE	ALLOWABLE UNSHORED CLEAR SPAN			SUPERIMPOSED LIVE LOAD, PSF																
		1 SPAN	2 SPAN	3 SPAN	CLEAR SPAN, FT.																
					6-0	6-6	7-0	7-6	8-0	8-6	9-0	9-6	10-0	10-6	11-0	11-6	12-0	12-6	13-0		
4" (t=2)	22	9-1	11-3	11-7	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	75
	20	9-8	12-5	12-10	*	373	318	274	238	208	183	161	143	128	114	102	92	83	107	97	
	18	10-6	14-3	13-11	*	*	396	341	297	260	230	203	181	162	146	131	118	107	139	139	
	16	12-0	14-4	14-1	*	*	*	*	*	359	318	282	252	227	204	185	168	153	139	143	
4 ½" (t=2 ½)	22	8-8	10-8	11-1	*	*	*	346	301	263	232	206	183	163	147	132	119	107	97	97	
	20	9-2	11-10	12-3	*	*	*	*	379	331	293	260	232	208	187	169	153	139	126	126	
	18	10-1	13-7	13-4	*	*	*	*	*	363	325	293	267	239	218	198	181	161	148	181	
	16	11-7	13-8	13-7	*	*	*	*	*	376	337	303	273	248	225	205	188	168	156	188	
5" (t=3)	22	8-4	10-3	10-7	*	*	*	*	368	322	284	252	225	201	181	163	147	133	121	121	
	20	8-10	11-4	11-9	*	*	*	*	*	360	320	286	257	231	209	190	172	157	145	157	
	18	9-7	13-1	12-10	*	*	*	*	*	*	*	363	328	298	271	247	226	206	189	226	
	16	11-0	13-1	13-2	*	*	*	*	*	*	*	379	343	311	283	259	237	216	197	237	
5 ½" (t=3 ½)	22	8-0	9-10	10-2	*	*	*	*	*	384	339	301	268	240	216	195	176	160	145	145	
	20	8-6	10-11	11-3	*	*	*	*	*	*	*	383	342	307	277	251	228	207	189	189	
	18	9-3	12-6	12-4	*	*	*	*	*	*	*	*	396	359	327	299	274	249	224	274	
	16	10-6	12-7	12-10	*	*	*	*	*	*	*	*	378	344	315	288	261	235	210	288	
6" (t=4)	22	7-9	9-6	9-10	*	*	*	*	*	*	395	351	313	281	252	228	206	187	170	170	
	20	8-3	10-6	10-10	*	*	*	*	*	*	*	*	361	325	294	267	243	222	200	222	
	18	8-11	12-1	11-11	*	*	*	*	*	*	*	*	*	386	353	324	297	271	246	324	
	16	10-1	12-1	12-6	*	*	*	*	*	*	*	*	*	374	343	312	285	258	231	343	
6 ½" (t=4 ½)	22	7-6	9-2	9-5	*	*	*	*	*	*	*	*	360	323	290	262	237	216	196	196	
	20	7-11	10-2	10-6	*	*	*	*	*	*	*	*	*	375	339	308	281	257	231	257	
	18	8-8	11-8	11-7	*	*	*	*	*	*	*	*	*	*	*	*	*	*	375	375	
	16	9-8	11-8	12-1	*	*	*	*	*	*	*	*	*	*	*	*	*	*	400	400	

\* MINIMUM EXTERIOR BEARING LENGTH REQUIRED IS 2.0 INCHES.

\* MINIMUM INTERIOR BEARING LENGTH REQUIRED IS 4.0 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 "2.0CF" 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 <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.	1.58	.320	.311	.295	.296
20	.0358 IN.	1.90	.403	.392	.380	.381
18	.0474 IN.	2.50	.550	.540	.496	.512
16	.0598 IN.	3.19	.717	.713	.653	.653

**GENERAL INFORMATION**

SLAB THICKNESS	4"	4 1/2"	5"	5 1/2"	6"	6 1/2"
Vol. Conc. Yds/100SF	.94	1.09	1.24	1.40	1.55	1.71
Conc. Wt. PSF (NormalWt.)	38	42	48	54	60	66
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.															
					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	12-6	13-0	
NORMAL WEIGHT CONCRETE (145 PCF)	4" (t=2)	22	8-5	10-3	10-7	385	324	275	236	204	177	155	136	120	106	94	83	74	66	59
		20	9-0	11-4	11-9	*	397	338	291	252	220	193	170	150	134	119	106	95	86	77
		18	9-9	13-1	12-10	*	*	*	392	341	299	263	233	207	185	166	149	135	122	110
		16	11-3	13-4	13-4	*	*	*	394	343	300	264	234	208	186	167	150	135	122	111
	4 1/2" (t=2 1/2)	22	8-1	9-9	10-1	*	*	343	295	255	222	195	171	151	134	119	107	95	85	76
		20	8-7	10-10	11-2	*	*	*	364	316	276	243	215	191	170	152	136	122	110	99
		18	9-4	12-5	12-3	*	*	*	*	*	377	333	295	263	236	212	191	173	157	142
		16	10-7	12-8	12-10	*	*	*	*	*	382	337	299	267	239	215	194	175	159	144
	5" (t=3)	22	7-9	9-4	9-7	*	*	*	356	308	269	236	208	184	163	146	130	116	104	94
		20	8-3	10-4	10-8	*	*	*	*	384	336	295	261	232	207	185	166	150	135	122
		18	8-11	11-10	11-9	*	*	*	*	*	*	361	322	289	260	235	212	193	175	175
		16	10-0	12-1	12-6	*	*	*	*	*	*	369	329	295	265	239	215	194	175	179
5 1/2" (t=3 1/2)	22	7-5	8-11	9-2	*	*	*	*	364	318	279	246	218	194	173	155	139	125	112	
	20	7-11	9-10	10-2	*	*	*	*	*	398	350	310	278	246	221	198	179	161	146	
	18	8-7	11-4	11-4	*	*	*	*	*	*	385	345	311	281	254	231	210	210	210	
	16	9-6	11-7	12-0	*	*	*	*	*	*	395	354	319	288	261	237	216	216	216	
6" (t=4)	22	7-2	8-7	8-10	*	*	*	*	*	369	324	286	254	226	202	181	162	146	131	
	20	7-8	9-6	9-9	*	*	*	*	*	*	361	321	287	258	232	209	189	171	171	
	18	8-4	10-11	10-11	*	*	*	*	*	*	*	*	364	329	298	271	247	247	247	
	16	9-1	11-1	11-6	*	*	*	*	*	*	*	*	376	340	308	280	255	255	255	
6 1/2" (t=4 1/2)	22	6-11	8-3	8-6	*	*	*	*	*	*	370	327	290	259	231	207	186	168	151	
	20	7-5	9-1	9-5	*	*	*	*	*	*	*	*	369	330	296	266	240	218	197	
	18	8-1	10-6	10-7	*	*	*	*	*	*	*	*	*	379	344	313	285	285	285	
	16	8-10	10-9	11-11	*	*	*	*	*	*	*	*	*	393	357	325	296	296	296	

\* MINIMUM EXTERIOR BEARING LENGTH REQUIRED IS 2.0 INCHES.

\* MINIMUM INTERIOR BEARING LENGTH REQUIRED IS 4.0 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