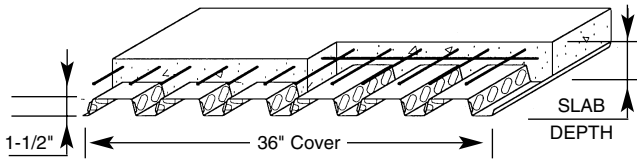


1.5 SB Normal Weight



Section Properties (per ft. of width)

Gage	t in	Wd psf	Sp in ³	Sn in ³	lp in ⁴	In in ⁴	As in ²	Fy ksi
22	0.0295	1.7	0.172	0.180	0.146	0.182	0.478	50
20	0.0358	2.0	0.218	0.229	0.190	0.221	0.581	50
18	0.0474	2.7	0.301	0.311	0.284	0.294	0.769	40
16	0.0600	3.4	0.388	0.394	0.374	0.373	0.973	40

145 pcf Normal Weight Concrete

Total Slab Depth D	Gage	Maximum Unshored Clear Spans			Composite Properties		Superimposed Live Loads - psf: No Studs											
		Single Span	Double Span	Triple Span	Iavg in ⁴ /ft	Sc in ³ /ft	Span - Feet and Inches											
							6'-0"	6'-6"	7'-0"	7'-6"	8'-0"	8'-6"	9'-0"	9'-6"	10'-0"	10'-6"	11'-0"	11'-6"
4" 36.3 psf 20.6 in ²	22	5'-10"	7'-9"	7'-11"	3.573	0.887	400	343	292	251	217	189	166	146	129	114	101	90
	20	6'-9"	9'-0"	9'-2"	3.854	1.052	400	400	352	303	262	229	201	178	158	140	125	111
	18	7'-2"	9'-5"	9'-8"	4.333	1.345	400	400	360	310	269	235	206	182	161	142	128	115
	16	8'-4"	10'-6"	10'-11"	4.782	1.638	400	400	360	310	269	235	206	182	161	142	128	115
4-1/2" 42.4 psf 24.8 in ²	22	5'-6"	7'-5"	7'-6"	5.107	1.087	400	400	360	309	268	233	205	180	160	142	126	113
	20	6'-4"	8'-7"	8'-8"	5.496	1.291	400	400	400	373	324	283	249	220	195	174	156	140
	18	6'-9"	8'-11"	9'-3"	6.160	1.653	400	400	400	383	332	290	255	226	200	179	160	143
5" 48.4 psf 29.3 in ²	22	5'-3"	7'-1"	7'-2"	7.022	1.293	400	400	400	370	320	279	245	216	191	170	152	136
	20	6'-1"	8'-2"	8'-4"	7.544	1.538	400	400	400	400	388	339	298	264	235	209	187	168
	18	6'-5"	8'-6"	8'-9"	8.431	1.972	400	400	400	400	398	348	307	271	241	215	193	173
5-1/2" 54.4 psf 34.1 in ²	22	5'-0"	6'-9"	6'-10"	9.360	1.503	400	400	400	400	374	326	287	253	224	199	178	159
	20	5'-10"	7'-10"	7'-11"	10.036	1.791	400	400	400	400	400	397	349	309	275	245	220	197
	18	6'-2"	8'-2"	8'-5"	11.187	2.301	400	400	400	400	400	400	360	318	283	253	227	204
6" 60.5 psf 39.4 in ²	22	4'-10"	6'-6"	6'-7"	12.157	1.717	400	400	400	400	400	374	329	290	258	229	205	183
	20	5'-7"	7'-6"	7'-8"	13.012	2.048	400	400	400	400	400	400	400	355	316	282	253	227
	18	5'-11"	7'-10"	8'-1"	14.468	2.636	400	400	400	400	400	400	400	366	326	291	261	235
	16	6'-10"	8'-9"	9'-1"	15.883	3.242	400	400	400	400	400	400	400	366	326	291	261	235

D, Wc, Ac	Gage	Maximum Unshored Clear Spans			Stud Factors		Superimposed Live Loads - psf: Studs @ 1'-0" O.C.												
		Single Span	Double Span	Triple Span	2' o.c.	3' o.c.	Span - Feet and Inches												
							6'-0"	6'-6"	7'-0"	7'-6"	8'-0"	8'-6"	9'-0"	9'-6"	10'-0"	10'-6"	11'-0"	11'-6"	
4" 36.3 psf 20.6 in ²	22	5'-10"	7'-9"	7'-11"	0.91	0.84	400	400	400	371	305	255	215	182	156	135	118	103	
	20	6'-9"	9'-1"	9'-2"	0.88	0.82	400	400	400	400	329	275	231	197	169	146	127	111	
	18	7'-2"	9'-5"	9'-5"	0.86	0.80	400	400	400	400	370	309	260	221	190	164	142	125	
	16	8'-4"	10'-6"	10'-11"	0.83	0.78	400	400	400	400	400	341	287	244	209	181	157	138	
4-1/2" 42.4 psf 24.8 in ²	22	5'-6"	7'-5"	7'-6"	0.92	0.85	400	400	400	400	387	339	299	261	224	193	168	147	
	20	6'-4"	8'-7"	8'-8"	0.89	0.83	400	400	400	400	400	392	330	281	241	208	181	158	
	18	6'-9"	8'-11"	9'-3"	0.87	0.81	400	400	400	400	400	400	370	314	270	233	203	177	
5" 48.4 psf 29.3 in ²	22	5'-3"	7'-1"	7'-2"	0.93	0.86	400	400	400	400	400	393	347	307	274	245	220	198	
	20	6'-1"	8'-2"	8'-4"	0.89	0.84	400	400	400	400	400	400	400	371	330	285	248	217	
	18	6'-5"	8'-6"	8'-9"	0.88	0.82	400	400	400	400	400	400	400	392	350	314	277	243	
5-1/2" 54.4 psf 34.1 in ²	22	5'-0"	6'-9"	6'-10"	0.85	0.81	400	400	400	400	400	400	400	400	400	400	351	305	267
	20	5'-10"	7'-10"	7'-11"	0.93	0.87	400	400	400	400	400	400	400	395	350	312	279	250	225
	18	6'-2"	8'-2"	8'-5"	0.90	0.85	400	400	400	400	400	400	400	400	400	400	378	339	305
6" 60.5 psf 39.4 in ²	22	4'-10"	6'-6"	6'-7"	0.88	0.83	400	400	400	400	400	400	400	400	400	400	359	323	292
	20	5'-7"	7'-6"	7'-8"	0.85	0.82	400	400	400	400	400	400	400	400	400	400	400	400	354
	18	5'-11"	7'-10"	8'-1"	0.94	0.88	400	400	400	400	400	400	400	392	349	313	281	253	
	16	6'-10"	8'-9"	9'-1"	0.91	0.86	400	400	400	400	400	400	400	400	400	400	381	343	310
6" 60.5 psf 39.4 in ²	18	5'-11"	7'-10"	8'-1"	0.89	0.84	400	400	400	400	400	400	400	400	400	400	400	363	328
	16	6'-10"	8'-9"	9'-1"	0.86	0.83	400	400	400	400	400	400	400	400	400	400	400	400	400

- 1) Refer to the Design Notes, Note 7, for information on live load limits for fire-rated construction. See Page CD-3.
- 2) If stud spacing exceeds 1'-0" o.c., reduce live load by applicable stud factor listed above for actual stud spacing.
- 3) If welded wire fabric is not used, the live loads should be reduced by 10%.

1.5 SB Lightweight



115 pcf Lightweight Concrete

Total Slab Depth D	Gage	Maximum Unshored Clear Spans			Composite Properties		Superimposed Live Loads - psf: No Studs											
		Single Span	Double Span	Triple Span	Iavg in ⁴ /ft	Sc in ³ /ft	Span - Feet and Inches											
							6'-0"	6'-6"	7'-0"	7'-6"	8'-0"	8'-6"	9'-0"	9'-6"	10'-0"	10'-6"	11'-0"	11'-6"
4" 28.8 pcf 20.6 in ²	22	6'-3"	8'-5"	8'-6"	2.916	0.848	394	333	284	244	212	185	163	144	127	110	96	84
	20	7'-4"	9'-8"	9'-11"	3.163	1.002	400	397	339	293	254	223	190	161	138	120	104	91
	18	7'-9"	10'-1"	10'-5"	3.580	1.274	400	400	345	297	259	226	199	176	157	135	118	103
	16	9'-1"	11'-4"	11'-8"	3.965	1.543	400	400	345	297	259	226	199	176	157	135	118	103
4-1/2" 33.6 pcf 24.8 in ²	22	6'-0"	8'-0"	8'-1"	4.159	1.044	400	400	351	302	262	229	202	178	158	141	126	113
	20	6'-11"	9'-3"	9'-5"	4.503	1.235	400	400	400	362	315	276	243	216	192	170	148	130
	18	7'-4"	9'-7"	9'-11"	5.082	1.573	400	400	400	369	321	281	248	220	196	175	157	141
	16	8'-7"	10'-9"	11'-2"	5.621	1.911	400	400	400	369	321	281	248	220	196	175	157	141
4-3/4" 36.0 pcf 27.0 in ²	22	5'-10"	7'-10"	7'-11"	4.892	1.144	400	400	385	332	288	252	222	196	174	156	139	125
	20	6'-9"	9'-1"	9'-2"	5.293	1.355	400	400	400	398	346	304	268	237	212	189	170	152
	18	7'-2"	9'-5"	9'-9"	5.967	1.727	400	400	400	400	353	310	273	242	216	193	173	156
	16	8'-4"	10'-7"	10'-11"	6.596	2.102	400	400	400	400	353	310	273	242	216	193	173	156
5" 38.4 pcf 34.1 in ²	22	5'-8"	7'-8"	7'-9"	5.704	1.246	400	400	400	362	315	275	242	214	191	170	152	137
	20	6'-7"	8'-10"	9'-0"	6.167	1.477	400	400	400	400	378	332	293	260	231	207	186	168
	18	7'-0"	9'-3"	9'-6"	6.945	1.885	400	400	400	400	386	339	299	265	236	211	190	171
	16	8'-2"	10'-4"	10'-8"	7.675	2.296	400	400	400	400	386	339	299	265	236	211	190	171
5-3/4" 45.6 pcf 36.7 in ²	22	5'-4"	7'-2"	7'-4"	8.655	1.558	400	400	400	400	396	346	305	270	240	215	193	173
	20	6'-2"	8'-4"	8'-6"	9.337	1.851	400	400	400	400	400	400	369	328	292	262	235	212
	18	6'-7"	8'-8"	9'-0"	10.483	2.370	400	400	400	400	400	400	378	336	300	268	241	218
	16	7'-8"	9'-9"	10'-1"	11.572	2.899	400	400	400	400	400	400	378	336	300	268	241	218

D, Wc, Ac	Gage	Maximum Unshored Clear Spans			Stud Factors		Superimposed Live Loads - psf: Studs @ 1'-0" O.C.												
		Single Span	Double Span	Triple Span	2' o.c.	3' o.c.	Span - Feet and Inches												
							6'-0"	6'-6"	7'-0"	7'-6"	8'-0"	8'-6"	9'-0"	9'-6"	10'-0"	10'-6"	11'-0"	11'-6"	
4" 28.8 pcf 20.6 in ²	22	6'-3"	8'-5"	8'-6"	0.87	0.80	400	400	372	303	249	208	175	149	128	110	96	84	
	20	7'-4"	9'-8"	9'-11"	0.83	0.78	400	400	400	328	270	225	190	161	138	120	104	91	
	18	7'-9"	10'-1"	10'-5"	0.81	0.76	400	400	400	371	306	255	215	183	157	135	118	103	
	16	9'-1"	11'-3"	11'-8"	0.78	0.74	400	400	400	400	339	283	238	202	174	150	130	114	
4-1/2" 33.6 pcf 24.8 in ²	22	6'-0"	8'-0"	8'-1"	0.88	0.81	400	400	400	400	356	296	250	212	182	157	137	120	
	20	6'-11"	9'-3"	9'-5"	0.84	0.79	400	400	400	400	385	321	270	230	197	170	148	130	
	18	7'-4"	9'-7"	9'-11"	0.82	0.77	400	400	400	400	400	362	305	259	222	192	167	146	
	16	8'-7"	10'-9"	11'-2"	0.79	0.75	400	400	400	400	400	400	338	287	246	213	185	162	
4-3/4" 36.0 pcf 27.0 in ²	22	5'-10"	7'-10"	7'-11"	0.88	0.82	400	400	400	400	400	349	294	250	214	185	161	141	
	20	6'-9"	9'-1"	9'-2"	0.85	0.80	400	400	400	400	400	377	318	270	232	200	174	152	
	18	7'-2"	9'-5"	9'-9"	0.83	0.78	400	400	400	400	400	400	358	305	261	226	196	172	
	16	8'-4"	10'-6"	10'-11"	0.80	0.76	400	400	400	400	400	400	396	337	289	249	217	190	
5" 38.4 pcf 34.1 in ²	22	5'-8"	7'-8"	7'-9"	0.88	0.83	400	400	400	400	400	400	343	291	250	216	188	164	
	20	6'-7"	8'-10"	9'-0"	0.85	0.81	400	400	400	400	400	400	370	315	270	233	203	178	
	18	7'-0"	9'-3"	9'-6"	0.83	0.79	400	400	400	400	400	400	400	355	304	263	228	200	
	16	8'-2"	10'-4"	10'-8"	0.80	0.77	400	400	400	400	400	400	400	392	336	290	252	221	
5-3/4" 45.6 pcf 36.7 in ²	22	5'-4"	7'-3"	7'-4"	0.90	0.84	400	400	400	400	400	400	400	380	339	305	274	248	
	20	6'-2"	8'-4"	8'-6"	0.87	0.82	400	400	400	400	400	400	400	400	400	400	353	307	269
	18	6'-7"	8'-8"	9'-0"	0.85	0.80	400	400	400	400	400	400	400	400	400	400	390	345	202
	16	7'-8"	9'-9"	10'-1"	0.82	0.78	400	400	400	400	400	400	400	400	400	400	400	381	333

- 1) Refer to the Design Notes, Note 7, for information on live load limits for fire-rated construction. See Page CD-3.
- 2) If stud spacing exceeds 1'-0" o.c., reduce live load by applicable stud factor listed above for actual stud spacing.
- 3) If welded wire fabric is not used, the live loads should be reduced by 10%.