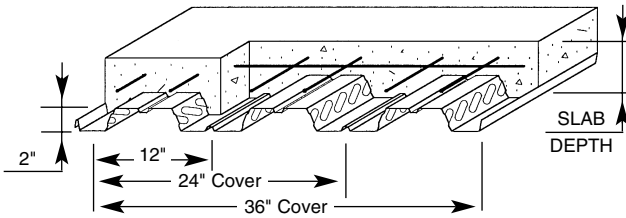


2.0 SB Normal Weight



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	2.0	0.257	0.258	0.317	0.309	0.472	50
20	0.0358	2.3	0.334	0.337	0.402	0.393	0.573	50
18	0.0474	3.0	0.507	0.517	0.557	0.552	0.759	40
16	0.0600	3.7	0.659	0.663	0.705	0.705	0.961	40

145 pcf Normal Weight Concrete

Total Slab Depth D	Wt. Conc. Area Conc.	Maximum Unshored Clear Spans			Composite Properties		Superimposed Live Loads - psf: No Studs												
		Gage	Single Span	Double Span	Triple Span	Iavg in ⁴ /ft	Sc in ³ /ft	Span - Feet and Inches											
								7'-0"	7'-6"	8'-0"	8'-6"	9'-0"	9'-6"	10'-0"	10'-6"	11'-0"	11'-6"	12'-0"	12'-6"
4-1/2" 42.3 psf 29.6 in ²	22	7'-1"	9'-1"	9'-4"	5.519	1.081	358	308	266	232	204	179	159	141	125	112	100	90	
	20	8'-3"	10'-4"	10'-9"	5.917	1.288	400	372	323	283	248	220	195	174	155	139	125	113	
	18	9'-3"	11'-5"	11'-10"	6.586	1.653	400	383	332	290	255	226	200	179	160	143	129	116	
	16	10'-9"	12'-11"	13'-0"	7.219	2.02	400	383	332	290	255	226	200	179	160	143	129	116	
5" 48.3 psf 33.8 in ²	22	6'-9"	8'-7"	8'-11"	7.481	1.277	400	365	316	276	242	213	189	168	149	134	120	107	
	20	7'-10"	9'-11"	10'-3"	8.006	1.522	400	400	383	335	295	261	232	207	185	166	149	135	
	18	8'-9"	10'-11"	11'-3"	8.889	1.954	400	400	394	345	304	269	239	213	191	171	154	139	
	16	10'-2"	12'-4"	12'-8"	9.733	2.394	400	400	394	345	304	269	239	213	191	171	154	139	
5-1/2" 54.4 psf 38.1 in ²	22	6'-5"	8'-3"	8'-7"	9.863	1.478	400	400	367	320	281	248	220	195	174	156	140	126	
	20	7'-5"	9'-6"	9'-10"	10.536	1.763	400	400	400	390	343	304	270	241	216	194	175	158	
	18	8'-4"	10'-5"	10'-9"	11.674	2.268	400	400	400	400	354	313	279	249	223	200	180	163	
	16	9'-8"	11'-10"	12'-3"	12.769	2.784	400	400	400	400	354	313	279	249	223	200	180	163	
6" 60.4 psf 42.7 in ²	22	6'-2"	7'-11"	8'-2"	12.702	1.684	400	400	400	366	322	284	252	224	200	179	161	144	
	20	7'-2"	9'-1"	9'-5"	13.548	2.010	400	400	400	400	393	348	309	276	247	222	200	181	
	18	8'-0"	10'-0"	10'-4"	14.981	2.589	400	400	400	400	400	359	320	285	256	230	207	187	
	16	9'-3"	11'-4"	11'-9"	16.369	3.184	400	400	400	400	400	359	320	285	256	230	207	187	
6-1/2" 66.5 psf 47.4 in ²	22	6'-0"	7'-7"	7'-11"	16.039	1.893	400	400	400	400	363	320	284	253	226	202	182	164	
	20	7'-0"	8'-9"	9'-1"	17.081	2.262	400	400	400	400	400	393	349	312	280	252	227	205	
	18	7'-10"	9'-8"	10'-0"	18.850	2.917	400	400	400	400	400	400	361	323	290	261	235	213	
	16	9'-0"	10'-11"	11'-4"	20.575	3.594	400	400	400	400	400	400	361	323	290	261	235	213	

D, Wc, Ac	Gage	Single Span	Double Span	Triple Span	Stud Factors		Superimposed Live Loads - psf: Studs @ 1'-0" O.C.											
					2' o.c.	3' o.c.	Span - Feet and Inches											
					7'-0"	7'-6"	8'-0"	8'-6"	9'-0"	9'-6"	10'-0"	10'-6"	11'-0"	11'-6"	12'-0"	12'-6"		
4-1/2" 42.3 psf 29.6 in ²	22	7'-1"	9'-1"	9'-4"	0.99	0.91	400	400	374	328	289	256	228	203	182	159	140	124
	20	8'-3"	10'-4"	10'-9"	0.95	0.88	400	400	400	393	347	302	259	224	195	170	150	133
	18	9'-3"	11'-5"	11'-10"	0.93	0.86	400	400	400	400	365	324	288	249	217	190	167	148
	16	10'-9"	12'-11"	13'-0"	0.89	0.84	400	400	400	400	400	369	316	273	237	208	183	162
5" 48.3 psf 33.8 in ²	22	6'-9"	8'-8"	8'-11"	0.99	0.91	400	400	400	381	336	297	265	237	212	191	172	156
	20	7'-10"	9'-11"	10'-3"	0.95	0.88	400	400	400	400	400	359	321	287	259	230	203	179
	18	8'-9"	10'-11"	11'-3"	0.94	0.87	400	400	400	400	400	379	339	303	273	247	223	199
	16	10'-2"	12'-4"	12'-8"	0.89	0.84	400	400	400	400	400	400	400	368	320	280	247	218
5-1/2" 54.4 psf 38.1 in ²	22	6'-5"	8'-3"	8'-7"	0.99	0.92	400	400	400	400	383	339	302	270	242	218	197	178
	20	7'-6"	9'-6"	9'-10"	0.95	0.89	400	400	400	400	400	400	367	329	296	267	242	220
	18	8'-4"	10'-5"	10'-9"	0.94	0.87	400	400	400	400	400	400	388	348	313	283	256	233
	16	9'-8"	11'-10"	12'-3"	0.90	0.85	400	400	400	400	400	400	400	400	392	355	323	286
6" 60.4 psf 42.7 in ²	22	6'-2"	7'-11"	8'-2"	0.99	0.92	400	400	400	400	400	381	339	304	272	245	221	200
	20	7'-2"	9'-1"	9'-5"	0.96	0.89	400	400	400	400	400	400	400	370	333	301	273	248
	18	8'-0"	10'-0"	10'-4"	0.94	0.88	400	400	400	400	400	400	400	392	353	319	289	263
	16	9'-3"	11'-4"	11'-9"	0.90	0.85	400	400	400	400	400	400	400	400	400	400	400	365
6-1/2" 66.5 psf 47.4 in ²	22	6'-0"	7'-8"	7'-11"	0.99	0.92	400	400	400	400	400	400	377	337	302	272	246	223
	20	7'-0"	8'-9"	9'-1"	0.96	0.90	400	400	400	400	400	400	400	400	371	335	303	276
	18	7'-10"	9'-8"	10'-0"	0.94	0.89	400	400	400	400	400	400	400	400	393	355	322	293
	16	9'-0"	10'-11"	11'-4"	0.91	0.86	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%.

2.0 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											
							7'-0"	7'-6"	8'-0"	8'-6"	9'-0"	9'-6"	10'-0"	10'-6"	11'-0"	11'-6"	12'-0"	12'-6"
4-1/2" 33.5 psf 29.6 in ²	22	7'-9"	9'-10"	10'-2"	4.461	1.042	350	302	262	229	201	178	158	141	126	113	102	92
	20	9'-1"	11'-3"	11'-7"	4.818	1.238	400	363	316	277	244	216	193	172	155	139	122	108
	18	10'-2"	12'-4"	12'-9"	5.410	1.581	400	371	323	283	249	221	197	176	158	142	128	116
	16	11'-9"	13'-11"	13'-9"	5.961	1.924	400	371	323	283	249	221	197	176	158	142	128	116
5" 38.3 psf 33.8 in ²	22	7'-4"	9'-5"	9'-9"	6.033	1.233	400	358	311	272	240	212	188	168	151	135	122	110
	20	8'-7"	10'-9"	11'-1"	6.504	1.466	400	400	375	329	290	257	229	205	184	166	150	136
	18	9'-7"	11'-10"	12'-3"	7.286	1.874	400	400	384	337	297	264	235	210	189	170	154	139
	16	11'-2"	13'-4"	13'-4"	8.019	2.286	400	400	384	337	297	264	235	210	189	170	154	139
5-1/4" 40.7 psf 35.9 in ²	22	7'-2"	9'-2"	9'-6"	6.941	1.332	400	387	337	295	259	230	204	182	163	147	132	119
	20	8'-5"	10'-6"	10'-10"	7.476	1.583	400	400	400	356	314	279	248	222	200	180	163	147
	18	9'-5"	11'-7"	12'-0"	8.368	2.026	400	400	400	365	322	285	254	228	205	185	167	151
	16	10'-11"	13'-1"	13'-2"	9.207	2.473	400	400	400	365	322	285	254	228	205	185	167	151
5-1/2" 43.1 psf 38.1 in ²	22	7'-0"	9'-0"	9'-4"	7.935	1.431	400	400	362	317	279	247	220	196	176	158	142	129
	20	8'-3"	10'-4"	10'-8"	8.541	1.702	400	400	400	383	338	300	268	240	215	194	176	159
	18	9'-2"	11'-4"	11'-9"	9.550	2.180	400	400	400	393	347	308	275	246	221	199	180	163
	16	10'-8"	12'-10"	13'-0"	10.504	2.664	400	400	400	393	347	308	275	246	221	199	180	163
6-1/4" 50.3 psf 45.0 in ²	22	6'-7"	8'-6"	8'-10"	11.469	1.736	400	400	400	387	341	302	269	240	215	194	175	158
	20	7'-9"	9'-9"	10'-1"	12.319	2.068	400	400	400	400	400	367	327	293	264	238	215	195
	18	8'-8"	10'-9"	11'-1"	13.741	2.655	400	400	400	400	400	377	336	301	271	245	221	201
	16	10'-0"	12'-2"	12'-6"	15.100	3.255	400	400	400	400	400	377	336	301	271	245	221	201

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												
							7'-0"	7'-6"	8'-0"	8'-6"	9'-0"	9'-6"	10'-0"	10'-6"	11'-0"	11'-6"	12'-0"	12'-6"	
4-1/2" 33.5 psf 29.6 in ²	22	7'-9"	9'-10"	10'-2"	0.95	0.87	400	400	381	318	268	228	195	169	147	128	113	100	
	20	9'-1"	11'-3"	11'-7"	0.91	0.84	400	400	400	343	289	246	211	182	158	139	122	108	
	18	10'-2"	12'-4"	12'-9"	0.89	0.82	400	400	400	386	325	276	237	205	178	156	137	121	
	16	11'-9"	13'-11"	13'-9"	0.85	0.80	400	400	400	400	358	304	261	225	196	172	151	134	
5" 38.3 psf 33.8 in ²	22	7'-4"	9'-5"	9'-9"	0.95	0.87	400	400	400	388	343	305	264	228	198	174	153	135	
	20	8'-7"	10'-9"	11'-1"	0.91	0.85	400	400	400	400	391	332	285	246	214	187	165	146	
	18	9'-7"	11'-10"	12'-3"	0.89	0.83	400	400	400	400	400	372	319	276	240	210	185	163	
	16	11'-2"	13'-4"	13'-4"	0.85	0.80	400	400	400	400	400	400	351	303	264	231	203	180	
5-1/4" 40.7 psf 35.9 in ²	22	7'-2"	9'-2"	9'-6"	0.95	0.88	400	400	400	400	367	326	291	261	228	200	176	156	
	20	8'-5"	10'-6"	10'-10"	0.91	0.85	400	400	400	400	400	382	327	283	246	215	189	168	
	18	9'-5"	11'-7"	12'-0"	0.89	0.83	400	400	400	400	400	400	366	316	275	241	212	188	
	16	10'-11"	13'-1"	13'-2"	0.86	0.81	400	400	400	400	400	400	400	348	303	265	233	206	
5-1/2" 43.1 psf 38.1 in ²	22	7'-0"	9'-0"	9'-4"	0.95	0.88	400	400	400	400	391	348	311	279	251	227	201	178	
	20	8'-3"	10'-4"	10'-8"	0.91	0.85	400	400	400	400	400	400	374	323	281	246	216	191	
	18	9'-2"	11'-4"	11'-9"	0.90	0.84	400	400	400	400	400	400	396	356	314	275	242	214	
	16	10'-8"	12'-10"	13'-0"	0.86	0.81	400	400	400	400	400	400	400	397	345	302	266	235	
6-1/4" 50.3 psf 45.0 in ²	22	6'-7"	8'-6"	8'-10"	0.96	0.89	400	400	400	400	400	400	368	330	297	269	244	221	
	20	7'-9"	9'-9"	10'-1"	0.92	0.86	400	400	400	400	400	400	400	400	400	362	328	298	271
	18	8'-8"	10'-9"	11'-1"	0.90	0.85	400	400	400	400	400	400	400	400	400	383	347	315	287
	16	10'-0"	12'-2"	12'-6"	0.87	0.82	400	400	400	400	400	400	400	400	400	400	383	347	315

- 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%.