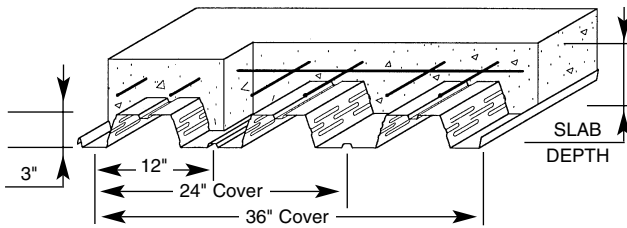


3.0 SB Normal Weight



Section Properties (per ft. of width)

Gage	t in	Wd psf	Sp in ³	Sn in ³	Ip in ⁴	In in ⁴	As in ²	Fy ksi
22	0.0295	2.1	0.428	0.436	0.766	0.749	0.524	50
20	0.0358	2.5	0.551	0.565	0.965	0.945	0.636	50
18	0.0474	3.3	0.820	0.826	1.315	1.311	0.842	40
16	0.0600	4.1	1.051	1.050	1.667	1.667	1.066	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													
								9'-0"	9'-6"	10'-0"	10'-6"	11'-0"	11'-6"	12'-0"	12'-6"	13'-0"	13'-6"	14'-0"	14'-6"		
5-1/2" 48.3 psf 35.4 in ²	22	9'-1"	10'-1"	10'-5"	9.373	1.331	253	224	198	176	157	141	126	113	102	92	83	75			
	20	10'-6"	12'-8"	13'-2"	10.014	1.589	310	274	244	217	195	175	158	142	129	117	106	96			
	18	11'-7"	13'-10"	14'-3"	11.089	2.042	319	282	251	224	201	180	162	147	133	120	109	99			
	16	13'-3"	15'-6"	15'-7"	12.125	2.502	319	282	251	224	201	180	162	147	133	120	109	99			
6" 54.4 psf 39.5 in ²	22	8'-4"	9'-3"	9'-7"	12.034	1.534	293	259	230	204	182	163	147	132	119	107	97	87			
	20	10'-0"	12'-2"	12'-7"	12.835	1.832	358	317	282	252	226	203	183	165	150	136	123	112			
	18	11'-0"	13'-2"	13'-8"	14.181	2.354	369	327	290	259	233	209	189	170	154	140	127	116			
	16	12'-7"	14'-10"	15'-2"	15.483	2.886	369	327	290	259	233	209	189	170	154	140	127	116			
6-1/2" 60.4 psf 43.8 in ²	22	7'-9"	8'-6"	8'-11"	15.164	1.745	335	296	262	234	209	187	168	151	136	123	111	100			
	20	9'-7"	11'-8"	11'-11"	16.149	2.084	400	362	322	288	258	232	209	189	171	156	141	129			
	18	10'-6"	12'-8"	13'-2"	17.811	2.679	400	373	332	297	266	240	216	195	177	161	146	133			
	16	12'-0"	14'-4"	14'-10"	19.426	3.290	400	373	332	297	266	240	216	195	177	161	146	133			
7" 66.5 psf 48.2 in ²	22	7'-2"	8'-0"	8'-4"	18.801	1.963	378	334	296	264	236	212	190	171	154	140	126	114			
	20	9'-4"	11'-0"	11'-2"	19.997	2.344	400	400	364	325	292	262	237	214	194	176	160	146			
	18	10'-3"	12'-3"	12'-8"	22.021	3.016	400	400	375	336	301	271	245	222	201	182	166	151			
	16	11'-8"	13'-9"	14'-3"	23.995	3.708	400	400	375	336	301	271	245	222	201	182	166	151			
7-1/2" 72.5 psf 52.8 in ²	22	6'-9"	7'-6"	7'-9"	22.985	2.185	400	373	331	295	264	237	213	192	173	157	142	128			
	20	9'-0"	10'-4"	10'-5"	24.419	2.610	400	400	400	363	326	294	265	240	218	198	180	164			
	18	10'-0"	11'-10"	12'-3"	26.850	3.363	400	400	400	376	337	304	274	248	225	205	187	170			
	16	11'-5"	13'-4"	13'-9"	29.231	4.139	400	400	400	376	337	304	274	248	225	205	187	170			

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													
					9'-0"	9'-6"	10'-0"	10'-6"	11'-0"	11'-6"	12'-0"	12'-6"	13'-0"	13'-6"	14'-0"	14'-6"				
5-1/2" 48.3 psf 35.4 in ²	22	9'-1"	10'-1"	10'-5"	0.96	0.88	372	330	294	263	236	213	193	175	159	144	132	120		
	20	10'-6"	12'-8"	13'-2"	0.92	0.85	400	396	354	318	286	258	234	213	194	177	160	144		
	18	11'-7"	13'-10"	14'-3"	0.91	0.84	400	400	373	335	302	273	247	225	205	187	172	157		
	16	13'-3"	15'-6"	15'-7"	0.87	0.81	400	400	400	400	373	338	307	272	242	216	193	174		
6" 54.4 psf 39.5 in ²	22	8'-3"	9'-3"	9'-8"	0.97	0.88	400	377	336	301	270	244	220	200	181	165	151	138		
	20	10'-0"	12'-2"	12'-7"	0.92	0.86	400	400	400	364	328	297	269	244	223	204	186	171		
	18	11'-0"	13'-2"	13'-8"	0.91	0.84	400	400	400	384	346	313	284	259	236	216	197	181		
	16	12'-7"	14'-10"	15'-2"	0.87	0.82	400	400	400	400	400	391	355	324	296	272	247	222		
6-1/2" 60.4 psf 43.8 in ²	22	7'-9"	8'-7"	8'-11"	0.97	0.89	400	400	378	338	304	274	248	225	204	186	170	155		
	20	9'-7"	11'-8"	11'-11"	0.93	0.86	400	400	400	400	370	335	303	276	252	230	210	193		
	18	10'-6"	12'-8"	13'-2"	0.91	0.84	400	400	400	400	391	354	321	292	267	244	223	205		
	16	12'-0"	14'-4"	14'-10"	0.87	0.82	400	400	400	400	400	400	400	368	336	308	283	261		
7" 66.5 psf 48.2 in ²	22	7'-2"	8'-0"	8'-4"	0.97	0.89	400	400	400	376	338	305	276	250	227	207	189	173		
	20	9'-4"	11'-0"	11'-2"	0.93	0.87	400	400	400	400	400	373	338	307	280	256	235	215		
	18	10'-3"	12'-3"	12'-8"	0.91	0.85	400	400	400	400	400	394	358	326	297	272	249	229		
	16	11'-8"	13'-9"	14'-3"	0.87	0.82	400	400	400	400	400	400	400	400	377	345	317	292		
7-1/2" 72.5 psf 52.8 in ²	22	6'-9"	7'-5"	7'-9"	0.97	0.90	400	400	400	400	372	335	303	275	250	228	208	190		
	20	9'-0"	10'-4"	10'-5"	0.93	0.87	400	400	400	400	400	400	373	339	309	283	259	238		
	18	10'-0"	11'-10"	12'-3"	0.92	0.85	400	400	400	400	400	400	395	360	328	300	275	253		
	16	11'-5"	13'-4"	13'-9"	0.88	0.83	400	400	400	400	400	400	400	400	400	382	351	324		

- 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%.

3.0 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											
							9'-0"	9'-6"	10'-0"	10'-6"	11'-0"	11'-6"	12'-0"	12'-6"	13'-0"	13'-6"	14'-0"	14'-6"
5-1/2" 38.3 psf 35.4 in ²	22	10'-0"	11'-8"	12'-2"	7.518	1.284	251	222	197	176	158	142	128	115	104	95	86	78
	20	11'-6"	13'-10"	14'-4"	8.100	1.529	304	270	240	215	193	174	158	143	130	118	108	98
	18	12'-9"	14'-11"	15'-6"	9.068	1.957	311	276	246	221	198	179	162	147	133	121	111	101
	16	14'-1"	16'-10"	16'-6"	9.989	2.389	311	276	246	221	198	179	162	147	133	121	111	101
6" 43.1 psf 39.5 in ²	22	9'-6"	10'-10"	11'-4"	9.634	1.482	290	257	229	204	183	165	149	134	122	110	100	91
	20	11'-0"	13'-3"	13'-9"	10.360	1.764	352	312	278	249	224	202	183	166	151	137	125	115
	18	12'-1"	14'-4"	14'-10"	11.567	2.258	360	320	285	256	230	207	188	170	155	141	129	118
	16	13'-8"	16'-2"	16'-1"	12.718	2.757	360	320	285	256	230	207	188	170	155	141	129	118
6-1/4" 45.5 psf 41.6 in ²	22	9'-4"	10'-5"	10'-11"	10.828	1.584	311	275	245	219	196	177	159	144	131	118	108	98
	20	10'-9"	13'-0"	13'-6"	11.635	1.886	377	334	298	267	240	217	196	178	162	147	135	123
	18	11'-10"	14'-1"	14'-7"	12.977	2.414	386	343	306	274	246	222	201	183	166	151	138	126
	16	13'-6"	15'-10"	15'-10"	14.260	2.950	386	343	306	274	246	222	201	183	166	151	138	126
6-1/2" 47.9 psf 43.8 in ²	22	9'-1"	10'-1"	10'-6"	12.118	1.688	332	294	262	234	210	189	170	154	140	127	115	105
	20	10'-6"	12'-9"	13'-3"	13.011	2.010	400	357	318	285	257	232	210	190	173	158	144	132
	18	11'-7"	13'-10"	14'-4"	14.500	2.574	400	366	327	293	263	238	215	195	178	162	148	135
	16	13'-3"	15'-7"	15'-8"	15.926	3.147	400	366	327	293	263	238	215	195	178	162	148	135
7-1/4" 55.1 psf 50.5 in ²	22	8'-3"	9'-2"	9'-6"	16.598	2.010	397	352	313	280	251	226	204	185	168	153	139	127
	20	9'-11"	12'-2"	12'-6"	17.789	2.394	400	400	381	342	307	278	251	228	208	190	173	159
	18	10'-11"	13'-2"	13'-7"	19.781	3.070	400	400	391	351	316	285	259	235	214	195	178	163
	16	12'-6"	14'-9"	15'-2"	21.700	3.761	400	400	391	351	316	285	259	235	214	195	178	163

							Superimposed Live Loads - psf: Studs @ 1'-0" O.C.													
D, Wc, Ac	Gage	Single Span	Double Span	Triple Span	Stud Factors		Span - Feet and Inches													
					2' o.c.	3' o.c.	9'-0"	9'-6"	10'-0"	10'-6"	11'-0"	11'-6"	12'-0"	12'-6"	13'-0"	13'-6"	14'-0"	14'-6"		
5-1/2" 38.3 psf 35.4 in ²	22	10'-0"	11'-8"	12'-2"	0.92	0.84	379	337	301	271	244	216	190	168	150	134	120	108		
	20	11'-6"	13'-10"	14'-4"	0.88	0.82	400	400	355	306	266	233	205	182	161	144	129	116		
	18	12'-9"	14'-11"	15'-6"	0.86	0.80	400	400	381	342	298	261	230	203	181	161	145	130		
	16	14'-1"	16'-10"	16'-6"	0.82	0.78	400	400	400	378	329	287	253	224	199	178	159	143		
6" 43.1 psf 39.5 in ²	22	9'-6"	10'-10"	11'-4"	0.92	0.84	400	385	344	309	279	252	229	208	190	171	154	138		
	20	11'-0"	13'-3"	13'-9"	0.88	0.82	400	400	400	373	336	298	262	232	206	184	165	149		
	18	12'-1"	14'-4"	14'-10"	0.86	0.80	400	400	400	393	355	322	293	259	230	206	185	166		
	16	13'-8"	16'-1"	16'-0"	0.83	0.78	400	400	400	400	400	366	322	285	253	226	203	183		
6-1/4" 45.5 psf 41.6 in ²	22	9'-4"	10'-5"	10'-11"	0.92	0.85	400	400	366	328	296	268	243	221	202	185	169	155		
	20	10'-9"	13'-0"	13'-6"	0.88	0.82	400	400	400	396	358	324	295	261	232	207	186	167		
	18	11'-10"	14'-1"	14'-7"	0.86	0.80	400	400	400	400	378	342	312	284	259	231	207	186		
	16	13'-6"	15'-10"	15'-10"	0.83	0.78	400	400	400	400	400	400	361	320	284	254	227	205		
6-1/2" 47.9 psf 43.8 in ²	22	9'-1"	10'-1"	10'-6"	0.92	0.85	400	400	387	348	313	284	257	234	214	196	179	165		
	20	10'-6"	12'-9"	13'-3"	0.88	0.82	400	400	400	400	379	344	313	285	259	231	208	187		
	18	11'-7"	13'-10"	14'-4"	0.87	0.81	400	400	400	400	400	363	330	302	276	253	231	208		
	16	13'-3"	15'-7"	15'-8"	0.83	0.78	400	400	400	400	400	400	400	357	317	283	254	229		
7-1/4" 55.1 psf 50.5 in ²	22	8'-3"	9'-2"	9'-6"	0.93	0.86	400	400	400	400	365	331	300	273	250	228	209	192		
	20	9'-11"	12'-2"	12'-6"	0.89	0.83	400	400	400	400	400	400	366	334	306	280	258	237		
	18	10'-11"	13'-2"	13'-7"	0.87	0.82	400	400	400	400	400	400	387	353	324	297	273	252		
	16	12'-6"	14'-9"	15'-2"	0.84	0.79	400	400	400	400	400	400	400	400	400	375	345	312		

- 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%.