

COMSLAB®

Normalweight Concrete

LOAD TABLES

CS210 - 20Ga 

COMSLAB CS210 Load Table

Imperial Units

#3 Rebar

Normal Weight Concrete: 145 pcf

Base Steel Thickness: 0.0375"

COMPOSITE SECTION PROPERTIES AND STRENGTH								
SELF WEIGHT (psf)	52.2	58.3	64.3	70.4	76.4	82.4	88.5	94.5
VOLUME (yd ³ /100ft ²)	1.26	1.41	1.57	1.72	1.88	2.03	2.19	2.34
φMn (kip-ft/ft)	8.3	8.9	9.4	10.0	10.5	11.1	11.6	12.2
φVn (kip/ft)	5.53	5.95	6.40	6.86	7.33	7.82	8.33	8.85
Iu (in ⁴ /ft)	65.0	74.5	84.6	95.6	107.5	120.5	134.6	150.1
Ic (in ⁴ /ft)	19.5	21.7	24.0	26.5	29.2	32.0	34.9	38.1
Id (in ⁴ /ft)	42.2	48.1	54.3	61.1	68.3	76.2	84.8	94.1
SLDP	665	757	855	961	1075	1199	1334	1480
SWDP	0.613	0.597	0.580	0.561	0.542	0.522	0.501	0.480
SLAB THICKNESS (in)	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0
SPAN (ft)	MAXIMUM UNIFORM SUPERIMPOSED SERVICE LOADS (psf)							
14.0	173	183	193	202	212	221	231	240
14.5	159	168	176	185	193	202	211	219
15.0	146	154	162	169	177	185	192	200
15.5	134	141	148	155	162	169	176	183
16.0	124	130	136	142	149	155	161	167
16.5	114	120	125	131	136	142	147	153
17.0	105	110	115	120	125	130	135	140
17.5	97	101	106	110	115	119	124	128
18.0	89	93	97	101	105	109	113	117
18.5	83	86	90	93	97	100	104	107
19.0	76	79	82	86	89	92	95	98
19.5	70	73	76	79	81	84	87	89
20.0	65	67	70	72	74	77	79	82
20.5	60	62	64	66	68	70	72	74
21.0	55	57	59	60	62	64	66	67
21.5	51	52	54	55	57	58	60	61
22.0	47	48	49	50	52	53	54	55
22.5	43	44	45	46	47	48	49	50
23.0		40	41	42	42	43	44	44
23.5								
24.0								
24.5								
25.0								
25.5								
26.0								
26.5								
27.0								
27.5								
28.0								
28.5								
29.0								
29.5								
30.0								
30.5								
31.0								
31.5								
32.0								

"d" next to tabulated values indicates deflection control; "v" next to tabulated values indicates shear control.

φMn is factored positive moment capacity; φVn is factored vertical one-way shear capacity.

Iu is uncracked moment of inertia transformed to steel; Ic is cracked moment of inertia transformed to steel; Id = 0.5 x (Iu + Ic).

For explanation of deflection parameters SLDP & SWDP, see the design example.

NOTES:

- "SLAB WEIGHT" is made up of the self weight of the steel deck, the reinforcing bar and the concrete slab.
- "SLAB THICKNESS" is measured from top of concrete to bottom of steel deck.
- "SPAN" is the lesser of the clear span plus slab thickness, or the center-to-center distance between supports.
- Shoring may be required. See "CONSTRUCTION CLEAR SPANS" table to establish the number of shores required.
- The slab weight has been subtracted from the tabulated uniform superimposed service loads.
- The tabulated uniform superimposed service loads have been reduced by a Load Factor of 1.6.
- Where deflection controls, the tabulated loads are based on deflection limit of L/360 under superimposed loads (LL + DL).
- Maximum net long-term deflection (considering 3 months to 5 years of sustained loading) has been limited to L/240 and 1".
- Fy (rebar) = 60 ksi; f'c (concrete) = 4000 psi.

COMSLAB CS210 Load Table

Imperial Units

#4 Rebar

Normal Weight Concrete: 145 pcf

Base Steel Thickness: 0.0375"

COMPOSITE SECTION PROPERTIES AND STRENGTH								
SELF WEIGHT (psf)	52.4	58.4	64.5	70.5	76.5	82.6	88.6	94.7
VOLUME (yd ³ /100ft ²)	1.26	1.41	1.57	1.72	1.88	2.03	2.19	2.34
φMn (kip-ft/ft)	9.9	10.6	11.2	11.9	12.5	13.2	13.8	14.5
φVn (kip/ft)	5.53	5.95	6.40	6.86	7.33	7.82	8.33	8.85
Iu (in ⁴ /ft)	66.1	75.8	86.1	97.2	109.3	122.5	136.8	152.4
Ic (in ⁴ /ft)	21.5	24.0	26.6	29.4	32.4	35.5	38.8	42.3
Id (in ⁴ /ft)	43.8	49.9	56.3	63.3	70.8	79.0	87.8	97.4
SLDP	689	785	886	996	1114	1243	1382	1532
SWDP	0.604	0.588	0.571	0.553	0.534	0.514	0.494	0.474
SLAB THICKNESS (in)	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0
SPAN (ft)	MAXIMUM UNIFORM SUPERIMPOSED SERVICE LOADS (psf)							
14.0	214	226	238	250	262	274	286	298
14.5	197	207	218	229	240	251	262	273
15.0	181	191	201	211	221	230	240	250
15.5	167	176	185	194	203	212	221	230
16.0	154	163	171	179	187	195	203	211
16.5	143	150	158	165	172	180	187	194
17.0	132	139	146	152	159	166	172	179
17.5	123	129	135	141	147	153	159	165
18.0	114	119	125	130	136	141	147	152
18.5	106	111	116	120	125	130	135	140
19.0	98	103	107	111	116	120	125	129
19.5	91	95	99	103	107	111	115	119
20.0	85	88	92	95	99	103	106	110
20.5	79	82	85	88	91	95	98	101
21.0	73	76	79	82	84	87	90	93
21.5	68	70	73	75	78	80	83	85
22.0	63	65	68	70	72	74	76	78
22.5	59	61	62	64	66	68	70	72
23.0	54	56	58	59	61	62	64	66
23.5	51	52	53	55	56	57	59	60
24.0	47	48	49	50	51	52	53	54
24.5	43	44	45	46	47	48	49	49
25.0	40	41	41	42	43	43	44	45
25.5								40
26.0								
26.5								
27.0								
27.5								
28.0								
28.5								
29.0								
29.5								
30.0								
30.5								
31.0								
31.5								
32.0								

"d" next to tabulated values indicates deflection control; "v" next to tabulated values indicates shear control.

φMn is factored positive moment capacity; φVn is factored vertical one-way shear capacity.

Iu is uncracked moment of inertia transformed to steel; Ic is cracked moment of inertia transformed to steel; Id = 0.5 x (Iu + Ic).

For explanation of deflection parameters SLDP & SWDP, see the design example.

NOTES:

- "SLAB WEIGHT" is made up of the self weight of the steel deck, the reinforcing bar and the concrete slab.
- "SLAB THICKNESS" is measured from top of concrete to bottom of steel deck.
- "SPAN" is the lesser of the clear span plus slab thickness, or the center-to-center distance between supports.
- Shoring may be required. See "CONSTRUCTION CLEAR SPANS" table to establish the number of shores required.
- The slab weight has been subtracted from the tabulated uniform superimposed service loads.
- The tabulated uniform superimposed service loads have been reduced by a Load Factor of 1.6.
- Where deflection controls, the tabulated loads are based on deflection limit of L/360 under superimposed loads (LL + DL).
- Maximum net long-term deflection (considering 3 months to 5 years of sustained loading) has been limited to L/240 and 1".
- Fy (rebar) = 60 ksi; f'c (concrete) = 4000 psi.

COMSLAB CS210 Load Table

Imperial Units

#5 Rebar

Normal Weight Concrete: 145 pcf

Base Steel Thickness: 0.0375"

COMPOSITE SECTION PROPERTIES AND STRENGTH								
SELF WEIGHT (psf)	52.6	58.6	64.6	70.7	76.7	82.8	88.8	94.9
VOLUME (yd ³ /100ft ²)	1.26	1.41	1.57	1.72	1.88	2.03	2.19	2.34
φMn (kip-ft/ft)	11.9	12.7	13.5	14.2	15.0	15.8	16.5	17.3
φVn (kip/ft)	5.53	5.95	6.40	6.86	7.33	7.82	8.33	8.85
Iu (in ⁴ /ft)	67.4	77.3	87.9	99.2	111.5	124.9	139.5	155.4
Ic (in ⁴ /ft)	24.0	26.7	29.7	32.9	36.3	39.8	43.6	47.5
Id (in ⁴ /ft)	45.7	52.0	58.8	66.1	73.9	82.4	91.5	101.5
SLDP	719	819	925	1039	1163	1296	1440	1596
SWDP	0.595	0.578	0.561	0.543	0.525	0.505	0.486	0.466
SLAB THICKNESS (in)	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0
SPAN (ft)	MAXIMUM UNIFORM SUPERIMPOSED SERVICE LOADS (psf)							
14.0	265	280	295	310	325	340	356	371
14.5	244	258	272	285	299	313	327	341
15.0	225	238	251	263	276	288	301	314
15.5	209	220	232	243	255	266	278	289
16.0	193	204	214	225	235	246	257	267
16.5	179	189	199	208	218	228	237	247
17.0	167	176	184	193	202	211	220	229
17.5	155	163	171	179	187	195	204	212
18.0	144	152	159	167	174	181	189	196
18.5	135	141	148	155	162	168	175	182
19.0	126	132	138	144	150	156	163	169
19.5	117	123	128	134	140	145	151	157
20.0	110	115	120	125	130	135	140	145
20.5	102	107	112	116	121	126	130	135
21.0	96	100	104	108	113	117	121	125
21.5	89	93	97	101	105	109	112	116
22.0	84	87	91	94	97	101	104	108
22.5	78	81	84	88	91	94	97	100
23.0	73	76	79	81	84	87	90	93
23.5	68	71	73	76	78	81	83	86
24.0	64	66	68	71	73	75	77	79
24.5	60	62	64	66	67	69	71	73
25.0	56	58	59	61	62	64	66	67
25.5	52	54	55	56	58	59	61	62
26.0	49	50	51	52	53	55	56	57
26.5	45	46	47	48	49	50	51	52
27.0	42	43	44	45	45	46	47	48
27.5			41	41	42	42	43	43
28.0								
28.5								
29.0								
29.5								
30.0								
30.5								
31.0								
31.5								
32.0								

"d" next to tabulated values indicates deflection control; "v" next to tabulated values indicates shear control.

φMn is factored positive moment capacity; φVn is factored vertical one-way shear capacity.

Iu is uncracked moment of inertia transformed to steel; Ic is cracked moment of inertia transformed to steel; Id = 0.5 x (Iu + Ic).

For explanation of deflection parameters SLDP & SWDP, see the design example.

NOTES:

1. "SLAB WEIGHT" is made up of the self weight of the steel deck, the reinforcing bar and the concrete slab.
2. "SLAB THICKNESS" is measured from top of concrete to bottom of steel deck.
3. "SPAN" is the lesser of the clear span plus slab thickness, or the center-to-center distance between supports.
4. Shoring may be required. See "CONSTRUCTION CLEAR SPANS" table to establish the number of shores required.
5. The slab weight has been subtracted from the tabulated uniform superimposed service loads.
6. The tabulated uniform superimposed service loads have been reduced by a Load Factor of 1.6.
7. Where deflection controls, the tabulated loads are based on deflection limit of L/360 under superimposed loads (LL + DL).
8. Maximum net long-term deflection (considering 3 months to 5 years of sustained loading) has been limited to L/240 and 1".
9. Fy (rebar) = 60 ksi; f'c (concrete) = 4000 psi.

COMSLAB CS210 Load Table

Imperial Units

#6 Rebar

Normal Weight Concrete: 145 pcf

Base Steel Thickness: 0.0375"

COMPOSITE SECTION PROPERTIES AND STRENGTH								
SELF WEIGHT (psf)	52.8	58.8	64.9	70.9	77.0	83.0	89.0	95.1
VOLUME (yd ³ /100ft ²)	1.26	1.41	1.57	1.72	1.88	2.03	2.19	2.34
φMn (kip-ft/ft)	14.3	15.2	16.1	17.1	18.0	18.9	19.8	20.8
φVn (kip/ft)	5.53	5.95	6.40	6.86	7.33	7.82	8.33	8.85
Iu (in ⁴ /ft)	69.0	79.1	89.9	101.6	114.2	127.8	142.7	158.8
Ic (in ⁴ /ft)	26.8	29.9	33.3	36.9	40.8	44.8	49.1	53.6
Id (in ⁴ /ft)	47.9	54.5	61.6	69.2	77.5	86.3	95.9	106.2
SLDP	753	858	970	1089	1219	1358	1509	1671
SWDP	0.584	0.567	0.550	0.533	0.514	0.495	0.476	0.457
SLAB THICKNESS (in)	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0
SPAN (ft)	MAXIMUM UNIFORM SUPERIMPOSED SERVICE LOADS (psf)							
14.0	325	344	363	382	401	420	439	458
14.5	300	318	335	353	370	388	405	423
15.0	278	294	310	326	342	358	374	390
15.5	258	273	287	302	317	331	346	361
16.0	240	253	267	280	294	307	321	334
16.5	223	235	248	260	273	285	298	310
17.0	208	219	231	242	254	265	277	288
17.5	194	204	215	226	236	247	257	268
18.0	181	191	201	210	220	230	239	249
18.5	169	178	187	196	205	214	223	232
19.0	158	167	175	183	192	200	208	216
19.5	148	156	164	171	179	187	194	202
20.0	139	146	153	160	167	174	181	188
20.5	131	137	143	150	156	163	169	176
21.0	123	128	134	140	146	152	158	164
21.5	115	121	126	131	137	142	148	153
22.0	108	113	118	123	128	133	138	143
22.5	102	106	111	115	120	125	129	134
23.0	96	100	104	108	112	117	121	125
23.5	90	94	98	101	105	109	113	117
24.0	85	88	91	95	98	102	105	109
24.5	80	83	86	89	92	95	98	102
25.0	75	78	81	83	86	89	92	95
25.5	70	73	75	78	81	83	86	88
26.0	66	68	71	73	75	78	80	82
26.5	62	64	66	68	70	72	74	77
27.0	58	60	62	64	66	68	69	71
27.5	55	57	58	60	61	63	64	66
28.0	52	53	54	56	57	58	60	61
28.5	48	50	51	52	53	54	55	57
29.0	45	46	47	48	49	50	51	52
29.5		43	44	45	46	46	47	48
30.0			41	42	42	43	43	44
30.5								40
31.0								
31.5								
32.0								

"d" next to tabulated values indicates deflection control; "v" next to tabulated values indicates shear control.

φMn is factored positive moment capacity; φVn is factored vertical one-way shear capacity.

Iu is uncracked moment of inertia transformed to steel; Ic is cracked moment of inertia transformed to steel; Id = 0.5 x (Iu + Ic).

For explanation of deflection parameters SLDP & SWDP, see the design example.

NOTES:

- "SLAB WEIGHT" is made up of the self weight of the steel deck, the reinforcing bar and the concrete slab.
- "SLAB THICKNESS" is measured from top of concrete to bottom of steel deck.
- "SPAN" is the lesser of the clear span plus slab thickness, or the center-to-center distance between supports.
- Shoring may be required. See "CONSTRUCTION CLEAR SPANS" table to establish the number of shores required.
- The slab weight has been subtracted from the tabulated uniform superimposed service loads.
- The tabulated uniform superimposed service loads have been reduced by a Load Factor of 1.6.
- Where deflection controls, the tabulated loads are based on deflection limit of L/360 under superimposed loads (LL + DL).
- Maximum net long-term deflection (considering 3 months to 5 years of sustained loading) has been limited to L/240 and 1".
- Fy (rebar) = 60 ksi; f'c (concrete) = 4000 psi.

COMSLAB CS210 Load Table

Imperial Units

#7 Rebar

Normal Weight Concrete: 145 pcf

Base Steel Thickness: 0.0375"

COMPOSITE SECTION PROPERTIES AND STRENGTH								
SELF WEIGHT (psf)	53.1	59.1	65.1	71.2	77.2	83.3	89.3	95.4
VOLUME (yd ³ /100ft ²)	1.26	1.41	1.57	1.72	1.88	2.03	2.19	2.34
φMn (kip-ft/ft)	17.0	18.1	19.2	20.4	21.5	22.6	23.7	24.8
φVn (kip/ft)	5.53	5.95	6.40	6.86	7.33	7.82	8.33	8.85
Iu (in ⁴ /ft)	70.7	81.1	92.3	104.2	117.1	131.1	146.3	162.8
Ic (in ⁴ /ft)	29.8	33.4	37.3	41.4	45.8	50.4	55.3	60.4
Id (in ⁴ /ft)	50.3	57.3	64.8	72.8	81.4	90.7	100.8	111.6
SLDP	791	901	1019	1145	1281	1428	1585	1756
SWDP	0.573	0.556	0.539	0.521	0.503	0.484	0.466	0.447
SLAB THICKNESS (in)	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0
SPAN (ft)	MAXIMUM UNIFORM SUPERIMPOSED SERVICE LOADS (psf)							
16.0	293	310	327	344	361	378	395	412
16.5	273	289	305	320	336	352	368	383
17.0	255	270	284	299	313	328	342	357
17.5	238	252	265	279	292	306	319	333
18.0	223	236	248	261	273	286	298	311
18.5	209	221	232	244	256	267	279	290
19.0	196	207	218	228	239	250	261	272
19.5	184	194	204	214	224	234	244	254
20.0	173	182	192	201	210	220	229	238
20.5	163	172	180	189	197	206	215	223
21.0	153	161	169	177	185	193	201	209
21.5	145	152	159	167	174	182	189	196
22.0	136	143	150	157	164	171	177	184
22.5	129	135	141	148	154	160	167	173
23.0	121	127	133	139	145	151	157	163
23.5	114	120	125	131	136	142	147	153
24.0	108	113	118	123	128	133	138	143
24.5	102	107	111	116	121	125	130	135
25.0	97	101	105	109	114	118	122	127
25.5	91	95	99	103	107	111	115	119
26.0	86	90	94	97	101	104	108	112
26.5	82	85	88	92	95	98	101	105
27.0	77	80	83	86	89	92	95	98
27.5	73	76	78	81	84	87	89	92
28.0	69	71	74	76	79	81	84	86
28.5	65	67	70	72	74	76	79	81
29.0	62	64	66	68	70	72	74	76
29.5	58	60	62	64	65	67	69	71
30.0		56	58	60	61	63	64	66
30.5			55	56	57	59	60	62
31.0				52	54	55	56	57
31.5					50	51	52	53
32.0					47	48	49	49
32.5						44	45	46
33.0							42	42
33.5								
34.0								

"d" next to tabulated values indicates deflection control; "v" next to tabulated values indicates shear control.

φMn is factored positive moment capacity; φVn is factored vertical one-way shear capacity.

Iu is uncracked moment of inertia transformed to steel; Ic is cracked moment of inertia transformed to steel; Id = 0.5 x (Iu + Ic).

For explanation of deflection parameters SLDP & SWDP, see the design example.

NOTES:

- "SLAB WEIGHT" is made up of the self weight of the steel deck, the reinforcing bar and the concrete slab.
- "SLAB THICKNESS" is measured from top of concrete to bottom of steel deck.
- "SPAN" is the lesser of the clear span plus slab thickness, or the center-to-center distance between supports.
- Shoring may be required. See "CONSTRUCTION CLEAR SPANS" table to establish the number of shores required.
- The slab weight has been subtracted from the tabulated uniform superimposed service loads.
- The tabulated uniform superimposed service loads have been reduced by a Load Factor of 1.6.
- Where deflection controls, the tabulated loads are based on deflection limit of L/360 under superimposed loads (LL + DL).
- Maximum net long-term deflection (considering 3 months to 5 years of sustained loading) has been limited to L/240 and 1".
- Fy (rebar) = 60 ksi; f'c (concrete) = 4000 psi.

COMSLAB CS210 Load Table

Imperial Units

#8 Rebar

Normal Weight Concrete: 145 pcf

Base Steel Thickness: 0.0375"

COMPOSITE SECTION PROPERTIES AND STRENGTH								
SELF WEIGHT (psf)	53.4	59.4	65.5	71.5	77.5	83.6	89.6	95.7
VOLUME (yd ³ /100ft ²)	1.26	1.41	1.57	1.72	1.88	2.03	2.19	2.34
φMn (kip-ft/ft)	20.1	21.4	22.7	24.0	25.4	26.7	28.0	29.3
φVn (kip/ft)	5.53	5.95	6.40	6.86	7.33	7.82	8.33	8.85
Iu (in ⁴ /ft)	72.5	83.3	94.8	107.1	120.3	134.7	150.2	167.1
Ic (in ⁴ /ft)	33.1	37.2	41.6	46.2	51.2	56.4	62.0	67.8
Id (in ⁴ /ft)	52.8	60.3	68.2	76.7	85.8	95.6	106.1	117.5
SLDP	831	948	1073	1206	1349	1504	1669	1848
SWDP	0.561	0.544	0.527	0.509	0.491	0.473	0.455	0.437
SLAB THICKNESS (in)	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0
SPAN (ft)	MAXIMUM UNIFORM SUPERIMPOSED SERVICE LOADS (psf)							
16.0	353	374	395	416	437	458	479	500
16.5	329	349	368	388	408	427	447	466
17.0	308	326	344	362	381	399	417	435
17.5	288	305	322	339	356	373	390	406
18.0	270	286	302	317	333	349	365	380
18.5	254	268	283	298	312	327	342	356
19.0	239	252	266	279	293	307	320	334
19.5	224	237	250	263	275	288	301	313
20.0	211	223	235	247	259	271	283	294
20.5	199	210	221	232	244	255	266	277
21.0	188	198	209	219	229	240	250	260
21.5	178	187	197	206	216	226	235	245
22.0	168	177	186	195	204	213	222	231
22.5	159	167	175	184	192	201	209	218
23.0	150	158	166	174	182	189	197	205
23.5	142	149	157	164	171	179	186	193
24.0	135	141	148	155	162	169	176	183
24.5	128	134	140	147	153	159	166	172
25.0	121	127	133	139	145	151	157	163
25.5	115	120	126	131	137	142	148	153
26.0	109	114	119	124	129	135	140	145
26.5	103	108	113	118	122	127	132	137
27.0	98	102	107	111	116	120	125	129
27.5	93	97	101	105	110	114	118	122
28.0	88	92	96	100	104	107	111	115
28.5	84	87	91	94	98	101	105	109
29.0	80	83	86	89	93	96	99	102
29.5	76	79	82	85	88	91	94	97
30.0		74	77	80	83	85	88	91
30.5		71	73	76	78	81	83	86
31.0			69	71	74	76	78	81
31.5				68	70	72	74	76
32.0					66	68	69	71
32.5						64	65	67
33.0							61	63
33.5								59
34.0								55

"d" next to tabulated values indicates deflection control; "v" next to tabulated values indicates shear control.

φMn is factored positive moment capacity; φVn is factored vertical one-way shear capacity.

Iu is uncracked moment of inertia transformed to steel; Ic is cracked moment of inertia transformed to steel; Id = 0.5 x (Iu + Ic).

For explanation of deflection parameters SLDP & SWDP, see the design example.

NOTES:

- "SLAB WEIGHT" is made up of the self weight of the steel deck, the reinforcing bar and the concrete slab.
- "SLAB THICKNESS" is measured from top of concrete to bottom of steel deck.
- "SPAN" is the lesser of the clear span plus slab thickness, or the center-to-center distance between supports.
- Shoring may be required. See "CONSTRUCTION CLEAR SPANS" table to establish the number of shores required.
- The slab weight has been subtracted from the tabulated uniform superimposed service loads.
- The tabulated uniform superimposed service loads have been reduced by a Load Factor of 1.6.
- Where deflection controls, the tabulated loads are based on deflection limit of L/360 under superimposed loads (LL + DL).
- Maximum net long-term deflection (considering 3 months to 5 years of sustained loading) has been limited to L/240 and 1".
- Fy (rebar) = 60 ksi; f'c (concrete) = 4000 psi.

COMSLAB CS210 Load Table

Imperial Units

#9 Rebar

Normal Weight Concrete: 145 pcf

Base Steel Thickness: 0.0375"

COMPOSITE SECTION PROPERTIES AND STRENGTH								
SELF WEIGHT (psf)	53.7	59.8	65.8	71.9	77.9	83.9	90.0	96.0
VOLUME (yd ³ /100ft ²)	1.26	1.41	1.57	1.72	1.88	2.03	2.19	2.34
φMn (kip-ft/ft)	23.6	25.1	26.7	28.2	29.8	31.3	32.9	34.4
φVn (kip/ft)	5.53	5.95	6.40	6.86	7.33	7.82	8.33	8.85
Iu (in ⁴ /ft)	74.5	85.7	97.6	110.2	123.9	138.7	154.6	172.0
Ic (in ⁴ /ft)	36.7	41.3	46.2	51.5	57.1	63.0	69.3	75.9
Id (in ⁴ /ft)	55.6	63.5	71.9	80.9	90.5	100.8	112.0	123.9
SLDP	875	999	1131	1272	1424	1587	1762	1950
SWDP	0.550	0.532	0.515	0.497	0.480	0.462	0.444	0.426
SLAB THICKNESS (in)	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0
SPAN (ft)	MAXIMUM UNIFORM SUPERIMPOSED SERVICE LOADS (psf)							
18.0	323	343	362	382	401	421	440	459
18.5	304	322	340	358	377	395	413	431
19.0	286	303	320	337	354	371	388	405
19.5	270	286	301	317	333	349	365	381
20.0	254	269	284	299	314	329	344	358
20.5	240	254	268	282	296	310	324	338
21.0	227	240	253	266	279	292	305	318
21.5	215	227	239	251	264	276	288	300
22.0	203	215	226	238	249	261	272	284
22.5	193	203	214	225	236	246	257	268
23.0	183	193	203	213	223	233	243	253
23.5	173	183	192	202	211	221	230	240
24.0	164	173	182	191	200	209	218	227
24.5	156	164	173	181	190	198	206	215
25.0	148	156	164	172	180	188	196	203
25.5	141	148	156	163	171	178	185	193
26.0	134	141	148	155	162	169	176	183
26.5	128	134	141	147	154	160	167	173
27.0	121	127	134	140	146	152	158	164
27.5	116	121	127	133	138	144	150	156
28.0	110	115	121	126	131	137	142	148
28.5	105	110	115	120	125	130	135	140
29.0	100 d	105	109	114	119	123	128	133
29.5	95 d	100	104	108	113	117	121	126
30.0	90 d	95	99	103	107	111	115	119
30.5		90	94	98	102	105	109	113
31.0			89	93	97	100	104	107
31.5				88	92	95	98	101
32.0				84	87	90	93	96
32.5					83	85	88	91
33.0						81	83	86
33.5							79	81
34.0								77
34.5								
35.0								
35.5								
36.0								

"d" next to tabulated values indicates deflection control; "v" next to tabulated values indicates shear control.

φMn is factored positive moment capacity; φVn is factored vertical one-way shear capacity.

Iu is uncracked moment of inertia transformed to steel; Ic is cracked moment of inertia transformed to steel; Id = 0.5 x (Iu + Ic).

For explanation of deflection parameters SLDP & SWDP, see the design example.

NOTES:

- "SLAB WEIGHT" is made up of the self weight of the steel deck, the reinforcing bar and the concrete slab.
- "SLAB THICKNESS" is measured from top of concrete to bottom of steel deck.
- "SPAN" is the lesser of the clear span plus slab thickness, or the center-to-center distance between supports.
- Shoring may be required. See "CONSTRUCTION CLEAR SPANS" table to establish the number of shores required.
- The slab weight has been subtracted from the tabulated uniform superimposed service loads.
- The tabulated uniform superimposed service loads have been reduced by a Load Factor of 1.6.
- Where deflection controls, the tabulated loads are based on deflection limit of L/360 under superimposed loads (LL + DL).
- Maximum net long-term deflection (considering 3 months to 5 years of sustained loading) has been limited to L/240 and 1".
- Fy (rebar) = 60 ksi; f'c (concrete) = 4000 psi.

COMSLAB CS210 Load Table

Imperial Units

#10 Rebar

Normal Weight Concrete: 145 pcf

Base Steel Thickness: 0.0375"

COMPOSITE SECTION PROPERTIES AND STRENGTH								
SELF WEIGHT (psf)	54.2	60.2	66.3	72.3	78.4	84.4	90.4	96.5
VOLUME (yd ³ /100ft ²)	1.26	1.41	1.57	1.72	1.88	2.03	2.19	2.34
φMn (kip-ft/ft)	27.7	29.6	31.4	33.3	35.1	37.0	38.8	40.7
φVn (kip/ft)	5.53	5.95	6.40	6.86	7.33	7.82	8.33	8.85
Iu (in ⁴ /ft)	76.8	88.4	100.8	114.0	128.1	143.4	159.9	177.7
Ic (in ⁴ /ft)	40.8	45.9	51.5	57.5	63.9	70.6	77.8	85.3
Id (in ⁴ /ft)	58.8	67.2	76.2	85.7	96.0	107.0	118.8	131.5
SLDP	925	1057	1198	1349	1510	1683	1869	2069
SWDP	0.538	0.519	0.502	0.484	0.467	0.449	0.431	0.414
SLAB THICKNESS (in)	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0
SPAN (ft)	MAXIMUM UNIFORM SUPERIMPOSED SERVICE LOADS (psf)							
18.0	343 v	368 v	395 v	422 v	451 v	480 v	511 v	542 v
18.5	333 v	357 v	383 v	409 v	437 v	465 v	495 v	522
19.0	323 v	347 v	371 v	397 v	424 v	449	470	491
19.5	314 v	337 v	361 v	383	403	423	443	463
20.0	305 v	325	343	362	380	399	418	436
20.5	289	307	324	342	359	377	394	412
21.0	274	290	307	323	340	356	373	389
21.5	258 d	275	290	306	321	337	352	368
22.0	241 d	260	275	290	304	319	333	348
22.5	226 d	247	261	274	288	302	316	330
23.0	211 d	234	247	260	273	286	299	312
23.5	198 d	223	235	247	259	272	284	296
24.0	186 d	212	223	235	246	258	269	281
24.5	175 d	200 d	212	223	234	245	256	267
25.0	164 d	188 d	202	212	222	233	243	253
25.5	155 d	177 d	192	202	211	221	231	241
26.0	146 d	167 d	183	192	201	210	219	229
26.5	138 d	158 d	174	183	191	200	209	217
27.0	131 d	149 d	166	174	182	190	199	207
27.5	124 d	141 d	158	166	174	181	189	197
28.0	117 d	134 d	151	158	165	173	180	187
28.5	111 d	127 d	144 d	151	158	164	171	178
29.0	105 d	120 d	136 d	144	150	157	163	170
29.5	100 d	114 d	130 d	137	143	149	155	161
30.0	95 d	109 d	123 d	131	136	142	148	154
30.5		103 d	117 d	125	130	136	141	146
31.0		99 d	112 d	119	124	129	134	139
31.5			106 d	113	118	123	128	133
32.0				108	113	117	122	126
32.5					108	112	116	120
33.0					103	107	111	114
33.5						101	105	109
34.0							100	104
34.5								99
35.0								
35.5								
36.0								

"d" next to tabulated values indicates deflection control; "v" next to tabulated values indicates shear control.

φMn is factored positive moment capacity; φVn is factored vertical one-way shear capacity.

Iu is uncracked moment of inertia transformed to steel; Ic is cracked moment of inertia transformed to steel; Id = 0.5 x (Iu + Ic).

For explanation of deflection parameters SLDP & SWDP, see the design example.

NOTES:

- "SLAB WEIGHT" is made up of the self weight of the steel deck, the reinforcing bar and the concrete slab.
- "SLAB THICKNESS" is measured from top of concrete to bottom of steel deck.
- "SPAN" is the lesser of the clear span plus slab thickness, or the center-to-center distance between supports.
- Shoring may be required. See "CONSTRUCTION CLEAR SPANS" table to establish the number of shores required.
- The slab weight has been subtracted from the tabulated uniform superimposed service loads.
- The tabulated uniform superimposed service loads have been reduced by a Load Factor of 1.6.
- Where deflection controls, the tabulated loads are based on deflection limit of L/360 under superimposed loads (LL + DL).
- Maximum net long-term deflection (considering 3 months to 5 years of sustained loading) has been limited to L/240 and 1".
- Fy (rebar) = 60 ksi; f'c (concrete) = 4000 psi.

COMSLAB CS210 Load Table

Imperial Units

#11 Rebar

Normal Weight Concrete: 145 pcf

Base Steel Thickness: 0.0375"

COMPOSITE SECTION PROPERTIES AND STRENGTH								
SELF WEIGHT (psf)	54.7	60.7	66.8	72.8	78.9	84.9	90.9	97.0
VOLUME (yd ³ /100ft ²)	1.26	1.41	1.57	1.72	1.88	2.03	2.19	2.34
φMn (kip-ft/ft)	32.1	34.3	36.5	38.6	40.8	43.0	45.2	47.4
φVn (kip/ft)	5.53	5.95	6.40	6.86	7.33	7.82	8.33	8.85
Iu (in ⁴ /ft)	79.1	91.2	104.1	117.7	132.4	148.2	165.3	183.7
Ic (in ⁴ /ft)	45.1	50.6	56.9	63.6	70.8	78.4	86.4	94.9
Id (in ⁴ /ft)	62.1	70.9	80.5	90.7	101.6	113.3	125.9	139.3
SLDP	977	1116	1266	1427	1599	1783	1980	2192
SWDP	0.527	0.508	0.489	0.472	0.454	0.437	0.420	0.403
SLAB THICKNESS (in)	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0
SPAN (ft)	MAXIMUM UNIFORM SUPERIMPOSED SERVICE LOADS (psf)							
18.0	343 v	368 v	394 v	422 v	450 v	480 v	510 v	542 v
18.5	332 v	357 v	382 v	409 v	436 v	465 v	495 v	525 v
19.0	322 v	346 v	371 v	397 v	423 v	451 v	480 v	509 v
19.5	313 v	336 v	360 v	385 v	411 v	438 v	466 v	494 v
20.0	304 v	327 v	350 v	374 v	399 v	425 v	452 v	480 v
20.5	296 v	318 v	340 v	364 v	388 v	413 v	440 v	467 v
21.0	288 v	309 v	331 v	354 v	377 v	402 v	428 v	454 v
21.5	273 d	301 v	322 v	344 v	367 v	391 v	416 v	440
22.0	255 d	291 d	314 v	335 v	358 v	381	399	417
22.5	238 d	272 d	305 v	326 v	344	361	378	395
23.0	223 d	255 d	289 d	311	327	343	359	375
23.5	209 d	239 d	271 d	295	311	326	341	356
24.0	196 d	224 d	254 d	281	295	310	324	339
24.5	184 d	211 d	239 d	267	281	295	308	322
25.0	174 d	198 d	225 d	254 d	268	280	293	306
25.5	164 d	187 d	212 d	239 d	255	267	279	292
26.0	154 d	176 d	200 d	225 d	243	254	266	278
26.5	146 d	167 d	189 d	213 d	232	243	254	265
27.0	138 d	157 d	179 d	201 d	221	231	242	252
27.5	130 d	149 d	169 d	191 d	211	221	231	241
28.0	124 d	141 d	160 d	181 d	201	211	220	229
28.5	117 d	134 d	152 d	171 d	192 d	201	210	219
29.0	111 d	127 d	144 d	162 d	182 d	192	201	209
29.5	106 d	121 d	137 d	154 d	173 d	183	191	200
30.0	100 d	115 d	130 d	147 d	164 d	175	183	191
30.5	96 d	109 d	124 d	140 d	157 d	168	175	182
31.0		104 d	118 d	133 d	149 d	160	167	174
31.5			113 d	127 d	142 d	153	160	166
32.0			107 d	121 d	136 d	146	152	159
32.5				115 d	129 d	140	146	152
33.0					124 d	134	139	145
33.5						128	133	138
34.0							127	132
34.5								126
35.0								121
35.5								
36.0								

"d" next to tabulated values indicates deflection control; "v" next to tabulated values indicates shear control.

φMn is factored positive moment capacity; φVn is factored vertical one-way shear capacity.

Iu is uncracked moment of inertia transformed to steel; Ic is cracked moment of inertia transformed to steel; Id = 0.5 x (Iu + Ic).

For explanation of deflection parameters SLDP & SWDP, see the design example.

NOTES:

- "SLAB WEIGHT" is made up of the self weight of the steel deck, the reinforcing bar and the concrete slab.
- "SLAB THICKNESS" is measured from top of concrete to bottom of steel deck.
- "SPAN" is the lesser of the clear span plus slab thickness, or the center-to-center distance between supports.
- Shoring may be required. See "CONSTRUCTION CLEAR SPANS" table to establish the number of shores required.
- The slab weight has been subtracted from the tabulated uniform superimposed service loads.
- The tabulated uniform superimposed service loads have been reduced by a Load Factor of 1.6.
- Where deflection controls, the tabulated loads are based on deflection limit of L/360 under superimposed loads (LL + DL).
- Maximum net long-term deflection (considering 3 months to 5 years of sustained loading) has been limited to L/240 and 1".
- Fy (rebar) = 60 ksi; f'c (concrete) = 4000 psi.

COMSLAB CS210 Load Table

Imperial Units

#3 Rebar

Normal Weight Concrete: 145 pcf

Base Steel Thickness: 0.0375"

COMPOSITE SECTION PROPERTIES AND STRENGTH								
SELF WEIGHT (psf)	52.2	58.3	64.3	70.4	76.4	82.4	88.5	94.5
VOLUME (yd ³ /100ft ²)	1.26	1.41	1.57	1.72	1.88	2.03	2.19	2.34
φMn (kip-ft/ft)	8.3	8.9	9.4	10.0	10.5	11.1	11.6	12.2
φVn (kip/ft)	5.53	5.95	6.40	6.86	7.33	7.82	8.33	8.85
Iu (in ⁴ /ft)	65.0	74.5	84.6	95.6	107.5	120.5	134.6	150.1
Ic (in ⁴ /ft)	19.5	21.7	24.0	26.5	29.2	32.0	34.9	38.1
Id (in ⁴ /ft)	42.2	48.1	54.3	61.1	68.3	76.2	84.8	94.1
SLDP	665	757	855	961	1075	1199	1334	1480
SWDP	0.613	0.597	0.580	0.561	0.542	0.522	0.501	0.480
SLAB THICKNESS (in)	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0
SPAN (ft)	MAXIMUM UNIFORM SUPERIMPOSED SERVICE LOADS (psf)							
14.0	173	183	193	202	212	221	231	240
14.5	159	168	176	185	193	202	211	219
15.0	146	154	162	169	177	185	192	200
15.5	134	141	148	155	162	169	176	183
16.0	124	130	136	142	149	155	161	167
16.5	114	120	125	131	136	142	147	153
17.0	105	110	115	120	125	130	135	140
17.5	97	101	106	110	115	119	124	128
18.0	89	93	97	101	105	109	113	117
18.5	83	86	90	93	97	100	104	107
19.0	76	79	82	86	89	92	95	98
19.5	70	73	76	79	81	84	87	89
20.0	65	67	70	72	74	77	79	82
20.5	60	62	64	66	68	70	72	74
21.0	55	57	59	60	62	64	66	67
21.5	51	52	54	55	57	58	60	61
22.0	47	48	49	50	52	53	54	55
22.5	43	44	45	46	47	48	49	50
23.0		40	41	42	42	43	44	44
23.5								
24.0								
24.5								
25.0								
25.5								
26.0								
26.5								
27.0								
27.5								
28.0								
28.5								
29.0								
29.5								
30.0								
30.5								
31.0								
31.5								
32.0								

"d" next to tabulated values indicates deflection control; "v" next to tabulated values indicates shear control.

φMn is factored positive moment capacity; φVn is factored vertical one-way shear capacity.

Iu is uncracked moment of inertia transformed to steel; Ic is cracked moment of inertia transformed to steel; Id = 0.5 x (Iu + Ic).

For explanation of deflection parameters SLDP & SWDP, see the design example.

NOTES:

- "SLAB WEIGHT" is made up of the self weight of the steel deck, the reinforcing bar and the concrete slab.
- "SLAB THICKNESS" is measured from top of concrete to bottom of steel deck.
- "SPAN" is the lesser of the clear span plus slab thickness, or the center-to-center distance between supports.
- Shoring may be required. See "CONSTRUCTION CLEAR SPANS" table to establish the number of shores required.
- The slab weight has been subtracted from the tabulated uniform superimposed service loads.
- The tabulated uniform superimposed service loads have been reduced by a Load Factor of 1.6.
- Where deflection controls, the tabulated loads are based on deflection limit of L/360 under superimposed loads (LL + DL).
- Maximum net long-term deflection (considering 3 months to 5 years of sustained loading) has been limited to L/240 and 1".
- Fy (rebar) = 60 ksi; f'c (concrete) = 4000 psi.

COMSLAB CS210 Load Table

Imperial Units

#4 Rebar

Normal Weight Concrete: 145 pcf

Base Steel Thickness: 0.0375"

COMPOSITE SECTION PROPERTIES AND STRENGTH								
SELF WEIGHT (psf)	52.4	58.4	64.5	70.5	76.5	82.6	88.6	94.7
VOLUME (yd ³ /100ft ²)	1.26	1.41	1.57	1.72	1.88	2.03	2.19	2.34
φMn (kip-ft/ft)	9.9	10.6	11.2	11.9	12.5	13.2	13.8	14.5
φVn (kip/ft)	5.53	5.95	6.40	6.86	7.33	7.82	8.33	8.85
Iu (in ⁴ /ft)	66.1	75.8	86.1	97.2	109.3	122.5	136.8	152.4
Ic (in ⁴ /ft)	21.5	24.0	26.6	29.4	32.4	35.5	38.8	42.3
Id (in ⁴ /ft)	43.8	49.9	56.3	63.3	70.8	79.0	87.8	97.4
SLDP	689	785	886	996	1114	1243	1382	1532
SWDP	0.604	0.588	0.571	0.553	0.534	0.514	0.494	0.474
SLAB THICKNESS (in)	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0
SPAN (ft)	MAXIMUM UNIFORM SUPERIMPOSED SERVICE LOADS (psf)							
14.0	214	226	238	250	262	274	286	298
14.5	197	207	218	229	240	251	262	273
15.0	181	191	201	211	221	230	240	250
15.5	167	176	185	194	203	212	221	230
16.0	154	163	171	179	187	195	203	211
16.5	143	150	158	165	172	180	187	194
17.0	132	139	146	152	159	166	172	179
17.5	123	129	135	141	147	153	159	165
18.0	114	119	125	130	136	141	147	152
18.5	106	111	116	120	125	130	135	140
19.0	98	103	107	111	116	120	125	129
19.5	91	95	99	103	107	111	115	119
20.0	85	88	92	95	99	103	106	110
20.5	79	82	85	88	91	95	98	101
21.0	73	76	79	82	84	87	90	93
21.5	68	70	73	75	78	80	83	85
22.0	63	65	68	70	72	74	76	78
22.5	59	61	62	64	66	68	70	72
23.0	54	56	58	59	61	62	64	66
23.5	51	52	53	55	56	57	59	60
24.0	47	48	49	50	51	52	53	54
24.5	43	44	45	46	47	48	49	49
25.0	40	41	41	42	43	43	44	45
25.5								40
26.0								
26.5								
27.0								
27.5								
28.0								
28.5								
29.0								
29.5								
30.0								
30.5								
31.0								
31.5								
32.0								

"d" next to tabulated values indicates deflection control; "v" next to tabulated values indicates shear control.

φMn is factored positive moment capacity; φVn is factored vertical one-way shear capacity.

Iu is uncracked moment of inertia transformed to steel; Ic is cracked moment of inertia transformed to steel; Id = 0.5 x (Iu + Ic).

For explanation of deflection parameters SLDP & SWDP, see the design example.

NOTES:

- "SLAB WEIGHT" is made up of the self weight of the steel deck, the reinforcing bar and the concrete slab.
- "SLAB THICKNESS" is measured from top of concrete to bottom of steel deck.
- "SPAN" is the lesser of the clear span plus slab thickness, or the center-to-center distance between supports.
- Shoring may be required. See "CONSTRUCTION CLEAR SPANS" table to establish the number of shores required.
- The slab weight has been subtracted from the tabulated uniform superimposed service loads.
- The tabulated uniform superimposed service loads have been reduced by a Load Factor of 1.6.
- Where deflection controls, the tabulated loads are based on deflection limit of L/360 under superimposed loads (LL + DL).
- Maximum net long-term deflection (considering 3 months to 5 years of sustained loading) has been limited to L/240 and 1".
- Fy (rebar) = 60 ksi; f'c (concrete) = 4000 psi.

COMSLAB CS210 Load Table

Imperial Units

#5 Rebar

Normal Weight Concrete: 145 pcf

Base Steel Thickness: 0.0375"

COMPOSITE SECTION PROPERTIES AND STRENGTH								
SELF WEIGHT (psf)	52.6	58.6	64.6	70.7	76.7	82.8	88.8	94.9
VOLUME (yd ³ /100ft ²)	1.26	1.41	1.57	1.72	1.88	2.03	2.19	2.34
φMn (kip-ft/ft)	11.9	12.7	13.5	14.2	15.0	15.8	16.5	17.3
φVn (kip/ft)	5.53	5.95	6.40	6.86	7.33	7.82	8.33	8.85
Iu (in ⁴ /ft)	67.4	77.3	87.9	99.2	111.5	124.9	139.5	155.4
Ic (in ⁴ /ft)	24.0	26.7	29.7	32.9	36.3	39.8	43.6	47.5
Id (in ⁴ /ft)	45.7	52.0	58.8	66.1	73.9	82.4	91.5	101.5
SLDP	719	819	925	1039	1163	1296	1440	1596
SWDP	0.595	0.578	0.561	0.543	0.525	0.505	0.486	0.466
SLAB THICKNESS (in)	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0
SPAN (ft)	MAXIMUM UNIFORM SUPERIMPOSED SERVICE LOADS (psf)							
14.0	265	280	295	310	325	340	356	371
14.5	244	258	272	285	299	313	327	341
15.0	225	238	251	263	276	288	301	314
15.5	209	220	232	243	255	266	278	289
16.0	193	204	214	225	235	246	257	267
16.5	179	189	199	208	218	228	237	247
17.0	167	176	184	193	202	211	220	229
17.5	155	163	171	179	187	195	204	212
18.0	144	152	159	167	174	181	189	196
18.5	135	141	148	155	162	168	175	182
19.0	126	132	138	144	150	156	163	169
19.5	117	123	128	134	140	145	151	157
20.0	110	115	120	125	130	135	140	145
20.5	102	107	112	116	121	126	130	135
21.0	96	100	104	108	113	117	121	125
21.5	89	93	97	101	105	109	112	116
22.0	84	87	91	94	97	101	104	108
22.5	78	81	84	88	91	94	97	100
23.0	73	76	79	81	84	87	90	93
23.5	68	71	73	76	78	81	83	86
24.0	64	66	68	71	73	75	77	79
24.5	60	62	64	66	67	69	71	73
25.0	56	58	59	61	62	64	66	67
25.5	52	54	55	56	58	59	61	62
26.0	49	50	51	52	53	55	56	57
26.5	45	46	47	48	49	50	51	52
27.0	42	43	44	45	45	46	47	48
27.5			41	41	42	42	43	43
28.0								
28.5								
29.0								
29.5								
30.0								
30.5								
31.0								
31.5								
32.0								

"d" next to tabulated values indicates deflection control; "v" next to tabulated values indicates shear control.

φMn is factored positive moment capacity; φVn is factored vertical one-way shear capacity.

Iu is uncracked moment of inertia transformed to steel; Ic is cracked moment of inertia transformed to steel; Id = 0.5 x (Iu + Ic).

For explanation of deflection parameters SLDP & SWDP, see the design example.

NOTES:

- "SLAB WEIGHT" is made up of the self weight of the steel deck, the reinforcing bar and the concrete slab.
- "SLAB THICKNESS" is measured from top of concrete to bottom of steel deck.
- "SPAN" is the lesser of the clear span plus slab thickness, or the center-to-center distance between supports.
- Shoring may be required. See "CONSTRUCTION CLEAR SPANS" table to establish the number of shores required.
- The slab weight has been subtracted from the tabulated uniform superimposed service loads.
- The tabulated uniform superimposed service loads have been reduced by a Load Factor of 1.6.
- Where deflection controls, the tabulated loads are based on deflection limit of L/360 under superimposed loads (LL + DL).
- Maximum net long-term deflection (considering 3 months to 5 years of sustained loading) has been limited to L/240 and 1".
- Fy (rebar) = 60 ksi; f'c (concrete) = 4000 psi.

COMSLAB CS210 Load Table

Imperial Units

#6 Rebar

Normal Weight Concrete: 145 pcf

Base Steel Thickness: 0.0375"

COMPOSITE SECTION PROPERTIES AND STRENGTH								
SELF WEIGHT (psf)	52.8	58.8	64.9	70.9	77.0	83.0	89.0	95.1
VOLUME (yd ³ /100ft ²)	1.26	1.41	1.57	1.72	1.88	2.03	2.19	2.34
φMn (kip-ft/ft)	14.3	15.2	16.1	17.1	18.0	18.9	19.8	20.8
φVn (kip/ft)	5.53	5.95	6.40	6.86	7.33	7.82	8.33	8.85
Iu (in ⁴ /ft)	69.0	79.1	89.9	101.6	114.2	127.8	142.7	158.8
Ic (in ⁴ /ft)	26.8	29.9	33.3	36.9	40.8	44.8	49.1	53.6
Id (in ⁴ /ft)	47.9	54.5	61.6	69.2	77.5	86.3	95.9	106.2
SLDP	753	858	970	1089	1219	1358	1509	1671
SWDP	0.584	0.567	0.550	0.533	0.514	0.495	0.476	0.457
SLAB THICKNESS (in)	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0
SPAN (ft)	MAXIMUM UNIFORM SUPERIMPOSED SERVICE LOADS (psf)							
14.0	325	344	363	382	401	420	439	458
14.5	300	318	335	353	370	388	405	423
15.0	278	294	310	326	342	358	374	390
15.5	258	273	287	302	317	331	346	361
16.0	240	253	267	280	294	307	321	334
16.5	223	235	248	260	273	285	298	310
17.0	208	219	231	242	254	265	277	288
17.5	194	204	215	226	236	247	257	268
18.0	181	191	201	210	220	230	239	249
18.5	169	178	187	196	205	214	223	232
19.0	158	167	175	183	192	200	208	216
19.5	148	156	164	171	179	187	194	202
20.0	139	146	153	160	167	174	181	188
20.5	131	137	143	150	156	163	169	176
21.0	123	128	134	140	146	152	158	164
21.5	115	121	126	131	137	142	148	153
22.0	108	113	118	123	128	133	138	143
22.5	102	106	111	115	120	125	129	134
23.0	96	100	104	108	112	117	121	125
23.5	90	94	98	101	105	109	113	117
24.0	85	88	91	95	98	102	105	109
24.5	80	83	86	89	92	95	98	102
25.0	75	78	81	83	86	89	92	95
25.5	70	73	75	78	81	83	86	88
26.0	66	68	71	73	75	78	80	82
26.5	62	64	66	68	70	72	74	77
27.0	58	60	62	64	66	68	69	71
27.5	55	57	58	60	61	63	64	66
28.0	52	53	54	56	57	58	60	61
28.5	48	50	51	52	53	54	55	57
29.0	45	46	47	48	49	50	51	52
29.5		43	44	45	46	46	47	48
30.0			41	42	42	43	43	44
30.5								40
31.0								
31.5								
32.0								

"d" next to tabulated values indicates deflection control; "v" next to tabulated values indicates shear control.

φMn is factored positive moment capacity; φVn is factored vertical one-way shear capacity.

Iu is uncracked moment of inertia transformed to steel; Ic is cracked moment of inertia transformed to steel; Id = 0.5 x (Iu + Ic).

For explanation of deflection parameters SLDP & SWDP, see the design example.

NOTES:

- "SLAB WEIGHT" is made up of the self weight of the steel deck, the reinforcing bar and the concrete slab.
- "SLAB THICKNESS" is measured from top of concrete to bottom of steel deck.
- "SPAN" is the lesser of the clear span plus slab thickness, or the center-to-center distance between supports.
- Shoring may be required. See "CONSTRUCTION CLEAR SPANS" table to establish the number of shores required.
- The slab weight has been subtracted from the tabulated uniform superimposed service loads.
- The tabulated uniform superimposed service loads have been reduced by a Load Factor of 1.6.
- Where deflection controls, the tabulated loads are based on deflection limit of L/360 under superimposed loads (LL + DL).
- Maximum net long-term deflection (considering 3 months to 5 years of sustained loading) has been limited to L/240 and 1".
- Fy (rebar) = 60 ksi; f'c (concrete) = 4000 psi.

COMSLAB CS210 Load Table

Imperial Units

#7 Rebar

Normal Weight Concrete: 145 pcf

Base Steel Thickness: 0.0375"

COMPOSITE SECTION PROPERTIES AND STRENGTH								
SELF WEIGHT (psf)	53.1	59.1	65.1	71.2	77.2	83.3	89.3	95.4
VOLUME (yd ³ /100ft ²)	1.26	1.41	1.57	1.72	1.88	2.03	2.19	2.34
φMn (kip-ft/ft)	17.0	18.1	19.2	20.4	21.5	22.6	23.7	24.8
φVn (kip/ft)	5.53	5.95	6.40	6.86	7.33	7.82	8.33	8.85
Iu (in ⁴ /ft)	70.7	81.1	92.3	104.2	117.1	131.1	146.3	162.8
Ic (in ⁴ /ft)	29.8	33.4	37.3	41.4	45.8	50.4	55.3	60.4
Id (in ⁴ /ft)	50.3	57.3	64.8	72.8	81.4	90.7	100.8	111.6
SLDP	791	901	1019	1145	1281	1428	1585	1756
SWDP	0.573	0.556	0.539	0.521	0.503	0.484	0.466	0.447
SLAB THICKNESS (in)	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0
SPAN (ft)	MAXIMUM UNIFORM SUPERIMPOSED SERVICE LOADS (psf)							
16.0	293	310	327	344	361	378	395	412
16.5	273	289	305	320	336	352	368	383
17.0	255	270	284	299	313	328	342	357
17.5	238	252	265	279	292	306	319	333
18.0	223	236	248	261	273	286	298	311
18.5	209	221	232	244	256	267	279	290
19.0	196	207	218	228	239	250	261	272
19.5	184	194	204	214	224	234	244	254
20.0	173	182	192	201	210	220	229	238
20.5	163	172	180	189	197	206	215	223
21.0	153	161	169	177	185	193	201	209
21.5	145	152	159	167	174	182	189	196
22.0	136	143	150	157	164	171	177	184
22.5	129	135	141	148	154	160	167	173
23.0	121	127	133	139	145	151	157	163
23.5	114	120	125	131	136	142	147	153
24.0	108	113	118	123	128	133	138	143
24.5	102	107	111	116	121	125	130	135
25.0	97	101	105	109	114	118	122	127
25.5	91	95	99	103	107	111	115	119
26.0	86	90	94	97	101	104	108	112
26.5	82	85	88	92	95	98	101	105
27.0	77	80	83	86	89	92	95	98
27.5	73	76	78	81	84	87	89	92
28.0	69	71	74	76	79	81	84	86
28.5	65	67	70	72	74	76	79	81
29.0	62	64	66	68	70	72	74	76
29.5	58	60	62	64	65	67	69	71
30.0		56	58	60	61	63	64	66
30.5			55	56	57	59	60	62
31.0				52	54	55	56	57
31.5					50	51	52	53
32.0					47	48	49	49
32.5						44	45	46
33.0							42	42
33.5								
34.0								

"d" next to tabulated values indicates deflection control; "v" next to tabulated values indicates shear control.

φMn is factored positive moment capacity; φVn is factored vertical one-way shear capacity.

Iu is uncracked moment of inertia transformed to steel; Ic is cracked moment of inertia transformed to steel; Id = 0.5 x (Iu + Ic).

For explanation of deflection parameters SLDP & SWDP, see the design example.

NOTES:

- "SLAB WEIGHT" is made up of the self weight of the steel deck, the reinforcing bar and the concrete slab.
- "SLAB THICKNESS" is measured from top of concrete to bottom of steel deck.
- "SPAN" is the lesser of the clear span plus slab thickness, or the center-to-center distance between supports.
- Shoring may be required. See "CONSTRUCTION CLEAR SPANS" table to establish the number of shores required.
- The slab weight has been subtracted from the tabulated uniform superimposed service loads.
- The tabulated uniform superimposed service loads have been reduced by a Load Factor of 1.6.
- Where deflection controls, the tabulated loads are based on deflection limit of L/360 under superimposed loads (LL + DL).
- Maximum net long-term deflection (considering 3 months to 5 years of sustained loading) has been limited to L/240 and 1".
- Fy (rebar) = 60 ksi; f'c (concrete) = 4000 psi.

COMSLAB CS210 Load Table

Imperial Units

#8 Rebar

Normal Weight Concrete: 145 pcf

Base Steel Thickness: 0.0375"

COMPOSITE SECTION PROPERTIES AND STRENGTH								
SELF WEIGHT (psf)	53.4	59.4	65.5	71.5	77.5	83.6	89.6	95.7
VOLUME (yd ³ /100ft ²)	1.26	1.41	1.57	1.72	1.88	2.03	2.19	2.34
φMn (kip-ft/ft)	20.1	21.4	22.7	24.0	25.4	26.7	28.0	29.3
φVn (kip/ft)	5.53	5.95	6.40	6.86	7.33	7.82	8.33	8.85
Iu (in ⁴ /ft)	72.5	83.3	94.8	107.1	120.3	134.7	150.2	167.1
Ic (in ⁴ /ft)	33.1	37.2	41.6	46.2	51.2	56.4	62.0	67.8
Id (in ⁴ /ft)	52.8	60.3	68.2	76.7	85.8	95.6	106.1	117.5
SLDP	831	948	1073	1206	1349	1504	1669	1848
SWDP	0.561	0.544	0.527	0.509	0.491	0.473	0.455	0.437
SLAB THICKNESS (in)	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0
SPAN (ft)	MAXIMUM UNIFORM SUPERIMPOSED SERVICE LOADS (psf)							
16.0	353	374	395	416	437	458	479	500
16.5	329	349	368	388	408	427	447	466
17.0	308	326	344	362	381	399	417	435
17.5	288	305	322	339	356	373	390	406
18.0	270	286	302	317	333	349	365	380
18.5	254	268	283	298	312	327	342	356
19.0	239	252	266	279	293	307	320	334
19.5	224	237	250	263	275	288	301	313
20.0	211	223	235	247	259	271	283	294
20.5	199	210	221	232	244	255	266	277
21.0	188	198	209	219	229	240	250	260
21.5	178	187	197	206	216	226	235	245
22.0	168	177	186	195	204	213	222	231
22.5	159	167	175	184	192	201	209	218
23.0	150	158	166	174	182	189	197	205
23.5	142	149	157	164	171	179	186	193
24.0	135	141	148	155	162	169	176	183
24.5	128	134	140	147	153	159	166	172
25.0	121	127	133	139	145	151	157	163
25.5	115	120	126	131	137	142	148	153
26.0	109	114	119	124	129	135	140	145
26.5	103	108	113	118	122	127	132	137
27.0	98	102	107	111	116	120	125	129
27.5	93	97	101	105	110	114	118	122
28.0	88	92	96	100	104	107	111	115
28.5	84	87	91	94	98	101	105	109
29.0	80	83	86	89	93	96	99	102
29.5	76	79	82	85	88	91	94	97
30.0		74	77	80	83	85	88	91
30.5		71	73	76	78	81	83	86
31.0			69	71	74	76	78	81
31.5				68	70	72	74	76
32.0					66	68	69	71
32.5						64	65	67
33.0							61	63
33.5								59
34.0								55

"d" next to tabulated values indicates deflection control; "v" next to tabulated values indicates shear control.

φMn is factored positive moment capacity; φVn is factored vertical one-way shear capacity.

Iu is uncracked moment of inertia transformed to steel; Ic is cracked moment of inertia transformed to steel; Id = 0.5 x (Iu + Ic).

For explanation of deflection parameters SLDP & SWDP, see the design example.

NOTES:

- "SLAB WEIGHT" is made up of the self weight of the steel deck, the reinforcing bar and the concrete slab.
- "SLAB THICKNESS" is measured from top of concrete to bottom of steel deck.
- "SPAN" is the lesser of the clear span plus slab thickness, or the center-to-center distance between supports.
- Shoring may be required. See "CONSTRUCTION CLEAR SPANS" table to establish the number of shores required.
- The slab weight has been subtracted from the tabulated uniform superimposed service loads.
- The tabulated uniform superimposed service loads have been reduced by a Load Factor of 1.6.
- Where deflection controls, the tabulated loads are based on deflection limit of L/360 under superimposed loads (LL + DL).
- Maximum net long-term deflection (considering 3 months to 5 years of sustained loading) has been limited to L/240 and 1".
- Fy (rebar) = 60 ksi; f'c (concrete) = 4000 psi.

COMSLAB CS210 Load Table

Imperial Units

#9 Rebar

Normal Weight Concrete: 145 pcf

Base Steel Thickness: 0.0375"

COMPOSITE SECTION PROPERTIES AND STRENGTH								
SELF WEIGHT (psf)	53.7	59.8	65.8	71.9	77.9	83.9	90.0	96.0
VOLUME (yd ³ /100ft ²)	1.26	1.41	1.57	1.72	1.88	2.03	2.19	2.34
φMn (kip-ft/ft)	23.6	25.1	26.7	28.2	29.8	31.3	32.9	34.4
φVn (kip/ft)	5.53	5.95	6.40	6.86	7.33	7.82	8.33	8.85
Iu (in ⁴ /ft)	74.5	85.7	97.6	110.2	123.9	138.7	154.6	172.0
Ic (in ⁴ /ft)	36.7	41.3	46.2	51.5	57.1	63.0	69.3	75.9
Id (in ⁴ /ft)	55.6	63.5	71.9	80.9	90.5	100.8	112.0	123.9
SLDP	875	999	1131	1272	1424	1587	1762	1950
SWDP	0.550	0.532	0.515	0.497	0.480	0.462	0.444	0.426
SLAB THICKNESS (in)	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0
SPAN (ft)	MAXIMUM UNIFORM SUPERIMPOSED SERVICE LOADS (psf)							
18.0	323	343	362	382	401	421	440	459
18.5	304	322	340	358	377	395	413	431
19.0	286	303	320	337	354	371	388	405
19.5	270	286	301	317	333	349	365	381
20.0	254	269	284	299	314	329	344	358
20.5	240	254	268	282	296	310	324	338
21.0	227	240	253	266	279	292	305	318
21.5	215	227	239	251	264	276	288	300
22.0	203	215	226	238	249	261	272	284
22.5	193	203	214	225	236	246	257	268
23.0	183	193	203	213	223	233	243	253
23.5	173	183	192	202	211	221	230	240
24.0	164	173	182	191	200	209	218	227
24.5	156	164	173	181	190	198	206	215
25.0	148	156	164	172	180	188	196	203
25.5	141	148	156	163	171	178	185	193
26.0	134	141	148	155	162	169	176	183
26.5	128	134	141	147	154	160	167	173
27.0	121	127	134	140	146	152	158	164
27.5	116	121	127	133	138	144	150	156
28.0	110	115	121	126	131	137	142	148
28.5	105	110	115	120	125	130	135	140
29.0	100 d	105	109	114	119	123	128	133
29.5	95 d	100	104	108	113	117	121	126
30.0	90 d	95	99	103	107	111	115	119
30.5		90	94	98	102	105	109	113
31.0			89	93	97	100	104	107
31.5				88	92	95	98	101
32.0				84	87	90	93	96
32.5					83	85	88	91
33.0						81	83	86
33.5							79	81
34.0								77
34.5								
35.0								
35.5								
36.0								

"d" next to tabulated values indicates deflection control; "v" next to tabulated values indicates shear control.

φMn is factored positive moment capacity; φVn is factored vertical one-way shear capacity.

Iu is uncracked moment of inertia transformed to steel; Ic is cracked moment of inertia transformed to steel; Id = 0.5 x (Iu + Ic).

For explanation of deflection parameters SLDP & SWDP, see the design example.

NOTES:

- "SLAB WEIGHT" is made up of the self weight of the steel deck, the reinforcing bar and the concrete slab.
- "SLAB THICKNESS" is measured from top of concrete to bottom of steel deck.
- "SPAN" is the lesser of the clear span plus slab thickness, or the center-to-center distance between supports.
- Shoring may be required. See "CONSTRUCTION CLEAR SPANS" table to establish the number of shores required.
- The slab weight has been subtracted from the tabulated uniform superimposed service loads.
- The tabulated uniform superimposed service loads have been reduced by a Load Factor of 1.6.
- Where deflection controls, the tabulated loads are based on deflection limit of L/360 under superimposed loads (LL + DL).
- Maximum net long-term deflection (considering 3 months to 5 years of sustained loading) has been limited to L/240 and 1".
- Fy (rebar) = 60 ksi; f'c (concrete) = 4000 psi.

COMSLAB CS210 Load Table

Imperial Units

#10 Rebar

Normal Weight Concrete: 145 pcf

Base Steel Thickness: 0.0375"

COMPOSITE SECTION PROPERTIES AND STRENGTH								
SELF WEIGHT (psf)	54.2	60.2	66.3	72.3	78.4	84.4	90.4	96.5
VOLUME (yd ³ /100ft ²)	1.26	1.41	1.57	1.72	1.88	2.03	2.19	2.34
φMn (kip-ft/ft)	27.7	29.6	31.4	33.3	35.1	37.0	38.8	40.7
φVn (kip/ft)	5.53	5.95	6.40	6.86	7.33	7.82	8.33	8.85
Iu (in ⁴ /ft)	76.8	88.4	100.8	114.0	128.1	143.4	159.9	177.7
Ic (in ⁴ /ft)	40.8	45.9	51.5	57.5	63.9	70.6	77.8	85.3
Id (in ⁴ /ft)	58.8	67.2	76.2	85.7	96.0	107.0	118.8	131.5
SLDP	925	1057	1198	1349	1510	1683	1869	2069
SWDP	0.538	0.519	0.502	0.484	0.467	0.449	0.431	0.414
SLAB THICKNESS (in)	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0
SPAN (ft)	MAXIMUM UNIFORM SUPERIMPOSED SERVICE LOADS (psf)							
18.0	343 v	368 v	395 v	422 v	451 v	480 v	511 v	542 v
18.5	333 v	357 v	383 v	409 v	437 v	465 v	495 v	522
19.0	323 v	347 v	371 v	397 v	424 v	449	470	491
19.5	314 v	337 v	361 v	383	403	423	443	463
20.0	305 v	325	343	362	380	399	418	436
20.5	289	307	324	342	359	377	394	412
21.0	274	290	307	323	340	356	373	389
21.5	258 d	275	290	306	321	337	352	368
22.0	241 d	260	275	290	304	319	333	348
22.5	226 d	247	261	274	288	302	316	330
23.0	211 d	234	247	260	273	286	299	312
23.5	198 d	223	235	247	259	272	284	296
24.0	186 d	212	223	235	246	258	269	281
24.5	175 d	200 d	212	223	234	245	256	267
25.0	164 d	188 d	202	212	222	233	243	253
25.5	155 d	177 d	192	202	211	221	231	241
26.0	146 d	167 d	183	192	201	210	219	229
26.5	138 d	158 d	174	183	191	200	209	217
27.0	131 d	149 d	166	174	182	190	199	207
27.5	124 d	141 d	158	166	174	181	189	197
28.0	117 d	134 d	151	158	165	173	180	187
28.5	111 d	127 d	144 d	151	158	164	171	178
29.0	105 d	120 d	136 d	144	150	157	163	170
29.5	100 d	114 d	130 d	137	143	149	155	161
30.0	95 d	109 d	123 d	131	136	142	148	154
30.5		103 d	117 d	125	130	136	141	146
31.0		99 d	112 d	119	124	129	134	139
31.5			106 d	113	118	123	128	133
32.0				108	113	117	122	126
32.5					108	112	116	120
33.0					103	107	111	114
33.5						101	105	109
34.0							100	104
34.5								99
35.0								
35.5								
36.0								

"d" next to tabulated values indicates deflection control; "v" next to tabulated values indicates shear control.

φMn is factored positive moment capacity; φVn is factored vertical one-way shear capacity.

Iu is uncracked moment of inertia transformed to steel; Ic is cracked moment of inertia transformed to steel; Id = 0.5 x (Iu + Ic).

For explanation of deflection parameters SLDP & SWDP, see the design example.

NOTES:

- "SLAB WEIGHT" is made up of the self weight of the steel deck, the reinforcing bar and the concrete slab.
- "SLAB THICKNESS" is measured from top of concrete to bottom of steel deck.
- "SPAN" is the lesser of the clear span plus slab thickness, or the center-to-center distance between supports.
- Shoring may be required. See "CONSTRUCTION CLEAR SPANS" table to establish the number of shores required.
- The slab weight has been subtracted from the tabulated uniform superimposed service loads.
- The tabulated uniform superimposed service loads have been reduced by a Load Factor of 1.6.
- Where deflection controls, the tabulated loads are based on deflection limit of L/360 under superimposed loads (LL + DL).
- Maximum net long-term deflection (considering 3 months to 5 years of sustained loading) has been limited to L/240 and 1".
- Fy (rebar) = 60 ksi; f'c (concrete) = 4000 psi.

COMSLAB CS210 Load Table

Imperial Units

#11 Rebar

Normal Weight Concrete: 145 pcf

Base Steel Thickness: 0.0375"

COMPOSITE SECTION PROPERTIES AND STRENGTH								
SELF WEIGHT (psf)	54.7	60.7	66.8	72.8	78.9	84.9	90.9	97.0
VOLUME (yd ³ /100ft ²)	1.26	1.41	1.57	1.72	1.88	2.03	2.19	2.34
φMn (kip-ft/ft)	32.1	34.3	36.5	38.6	40.8	43.0	45.2	47.4
φVn (kip/ft)	5.53	5.95	6.40	6.86	7.33	7.82	8.33	8.85
Iu (in ⁴ /ft)	79.1	91.2	104.1	117.7	132.4	148.2	165.3	183.7
Ic (in ⁴ /ft)	45.1	50.6	56.9	63.6	70.8	78.4	86.4	94.9
Id (in ⁴ /ft)	62.1	70.9	80.5	90.7	101.6	113.3	125.9	139.3
SLDP	977	1116	1266	1427	1599	1783	1980	2192
SWDP	0.527	0.508	0.489	0.472	0.454	0.437	0.420	0.403
SLAB THICKNESS (in)	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0
SPAN (ft)	MAXIMUM UNIFORM SUPERIMPOSED SERVICE LOADS (psf)							
18.0	343 v	368 v	394 v	422 v	450 v	480 v	510 v	542 v
18.5	332 v	357 v	382 v	409 v	436 v	465 v	495 v	525 v
19.0	322 v	346 v	371 v	397 v	423 v	451 v	480 v	509 v
19.5	313 v	336 v	360 v	385 v	411 v	438 v	466 v	494 v
20.0	304 v	327 v	350 v	374 v	399 v	425 v	452 v	480 v
20.5	296 v	318 v	340 v	364 v	388 v	413 v	440 v	467 v
21.0	288 v	309 v	331 v	354 v	377 v	402 v	428 v	454 v
21.5	273 d	301 v	322 v	344 v	367 v	391 v	416 v	440
22.0	255 d	291 d	314 v	335 v	358 v	381	399	417
22.5	238 d	272 d	305 v	326 v	344	361	378	395
23.0	223 d	255 d	289 d	311	327	343	359	375
23.5	209 d	239 d	271 d	295	311	326	341	356
24.0	196 d	224 d	254 d	281	295	310	324	339
24.5	184 d	211 d	239 d	267	281	295	308	322
25.0	174 d	198 d	225 d	254 d	268	280	293	306
25.5	164 d	187 d	212 d	239 d	255	267	279	292
26.0	154 d	176 d	200 d	225 d	243	254	266	278
26.5	146 d	167 d	189 d	213 d	232	243	254	265
27.0	138 d	157 d	179 d	201 d	221	231	242	252
27.5	130 d	149 d	169 d	191 d	211	221	231	241
28.0	124 d	141 d	160 d	181 d	201	211	220	229
28.5	117 d	134 d	152 d	171 d	192 d	201	210	219
29.0	111 d	127 d	144 d	162 d	182 d	192	201	209
29.5	106 d	121 d	137 d	154 d	173 d	183	191	200
30.0	100 d	115 d	130 d	147 d	164 d	175	183	191
30.5	96 d	109 d	124 d	140 d	157 d	168	175	182
31.0		104 d	118 d	133 d	149 d	160	167	174
31.5			113 d	127 d	142 d	153	160	166
32.0			107 d	121 d	136 d	146	152	159
32.5				115 d	129 d	140	146	152
33.0					124 d	134	139	145
33.5						128	133	138
34.0							127	132
34.5								126
35.0								121
35.5								
36.0								

"d" next to tabulated values indicates deflection control; "v" next to tabulated values indicates shear control.

φMn is factored positive moment capacity; φVn is factored vertical one-way shear capacity.

Iu is uncracked moment of inertia transformed to steel; Ic is cracked moment of inertia transformed to steel; Id = 0.5 x (Iu + Ic).

For explanation of deflection parameters SLDP & SWDP, see the design example.

NOTES:

- "SLAB WEIGHT" is made up of the self weight of the steel deck, the reinforcing bar and the concrete slab.
- "SLAB THICKNESS" is measured from top of concrete to bottom of steel deck.
- "SPAN" is the lesser of the clear span plus slab thickness, or the center-to-center distance between supports.
- Shoring may be required. See "CONSTRUCTION CLEAR SPANS" table to establish the number of shores required.
- The slab weight has been subtracted from the tabulated uniform superimposed service loads.
- The tabulated uniform superimposed service loads have been reduced by a Load Factor of 1.6.
- Where deflection controls, the tabulated loads are based on deflection limit of L/360 under superimposed loads (LL + DL).
- Maximum net long-term deflection (considering 3 months to 5 years of sustained loading) has been limited to L/240 and 1".
- Fy (rebar) = 60 ksi; f'c (concrete) = 4000 psi.