

COMSLAB[®]

Lightweight Concrete

LOAD TABLES

CS210 - 19Ga 

COMSLAB CS210 Load Table

Imperial Units

#3 Rebar

Light Weight Concrete: 110 pcf

Base Steel Thickness: 0.0435"

COMPOSITE SECTION PROPERTIES AND STRENGTH								
SELF WEIGHT (psf)	40.7	45.2	49.8	54.4	59.0	63.6	68.2	72.7
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)	9.5	10.1	10.8	11.4	12.1	12.8	13.4	14.1
φVn (kip/ft)	4.14	4.47	4.80	5.14	5.50	5.87	6.25	6.64
Iu (in ⁴ /ft)	47.3	54.1	61.4	69.2	77.7	86.8	96.8	107.7
Ic (in ⁴ /ft)	20.0	22.3	24.8	27.4	30.3	33.3	36.5	39.9
Id (in ⁴ /ft)	33.7	38.2	43.1	48.3	54.0	60.1	66.7	73.8
SLDP	530	601	678	760	849	945	1049	1161
SWDP	0.655	0.637	0.619	0.600	0.579	0.558	0.537	0.515
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	211	224	238	251	264	278	291	304
14.5	194	207	219	231	243	256	268	280
15.0	180	191	202	213	225	236	247	258
15.5	166	177	187	197	207	218	228	238
16.0	154	164	173	183	192	201	211	220
16.5	143	152	161	169	178	187	195	204
17.0	133	141	149	157	165	173	181	189
17.5	124	131	139	146	153	161	168	175
18.0	115	122	129	136	142	149	156	163
18.5	108	114	120	126	132	139	145	151
19.0	101	106	112	118	123	129	135	140
19.5	94	99	104	110	115	120	125	130
20.0	88	93	97	102	107	112	117	121
20.5	82	86	91	95	100	104	108	113
21.0	77	81	85	89	93	97	101	105
21.5	72	76	79	83	87	90	94	98
22.0	67	71	74	77	81	84	87	91
22.5	63	66	69	72	75	78	81	84
23.0	59	62	64	67	70	73	76	78
23.5	55	58	60	63	65	68	70	73
24.0	52	54	56	58	61	63	65	68
24.5	48	50	52	54	57	59	61	63
25.0	45	47	49	51	53	54	56	58
25.5	42	44	46	47	49	50	52	54
26.0		41	42	44	45	47	48	50
26.5				41	42	43	44	46
27.0							41	42
27.5								
28.0								
28.5								
29.0								
29.5								
30.0								
30.5								
31.0								
31.5								
32.0								

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

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).

9. Fy (rebar) = 60 ksi; f'c (concrete) = 4000 psi.

COMSLAB CS210 Load Table

Imperial Units

#4 Rebar

Light Weight Concrete: 110 pcf

Base Steel Thickness: 0.0435"

COMPOSITE SECTION PROPERTIES AND STRENGTH								
SELF WEIGHT (psf)	40.8	45.4	50.0	54.6	59.1	63.7	68.3	72.9
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)	11.0	11.8	12.5	13.3	14.1	14.8	15.6	16.3
φVn (kip/ft)	4.14	4.47	4.80	5.14	5.50	5.87	6.25	6.64
Iu (in ⁴ /ft)	48.4	55.3	62.8	70.8	79.4	88.7	98.9	109.9
Ic (in ⁴ /ft)	21.8	24.3	27.0	30.0	33.1	36.4	39.9	43.6
Id (in ⁴ /ft)	35.1	39.8	44.9	50.4	56.2	62.6	69.4	76.8
SLDP	552	626	706	792	885	984	1092	1208
SWDP	0.643	0.625	0.607	0.588	0.568	0.548	0.527	0.506
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	251	267	282	298	314	330	346	362
14.5	232	246	261	275	290	304	319	333
15.0	214	228	241	255	268	281	295	308
15.5	199	211	224	236	248	260	273	285
16.0	185	196	207	219	230	241	253	264
16.5	172	182	193	203	214	224	235	245
17.0	160	170	179	189	199	208	218	228
17.5	149	158	167	176	185	194	203	212
18.0	140	148	156	164	172	181	189	197
18.5	131	138	146	153	161	169	176	184
19.0	122	129	136	143	150	157	164	171
19.5	114	121	127	134	140	147	153	160
20.0	107	113	119	125	131	137	143	149
20.5	101	106	112	117	123	128	134	139
21.0	94	100	105	110	115	120	125	130
21.5	89	93	98	103	108	112	117	122
22.0	83	88	92	96	101	105	110	114
22.5	78	82	86	90	94	98	102	107
23.0	74	77	81	85	88	92	96	100
23.5	69	73	76	79	83	86	90	93
24.0	65	68	71	75	78	81	84	87
24.5	61	64	67	70	73	76	78	81
25.0	58	60	63	65	68	71	73	76
25.5	54	57	59	61	64	66	68	71
26.0	51	53	55	57	60	62	64	66
26.5	48	50	52	54	56	58	60	62
27.0	45	47	49	50	52	54	56	57
27.5	42	44	45	47	49	50	52	53
28.0		41	43	44	45	47	48	49
28.5				41	42	43	45	46
29.0						40	41	42
29.5								
30.0								
30.5								
31.0								
31.5								
32.0								

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

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).

9. Fy (rebar) = 60 ksi; f'c (concrete) = 4000 psi.

COMSLAB CS210 Load Table

Imperial Units

#5 Rebar

Light Weight Concrete: 110 pcf

Base Steel Thickness: 0.0435"

COMPOSITE SECTION PROPERTIES AND STRENGTH								
SELF WEIGHT (psf)	41.0	45.6	50.2	54.7	59.3	63.9	68.5	73.1
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)	13.0	13.9	14.8	15.6	16.5	17.4	18.3	19.2
φVn (kip/ft)	4.14	4.47	4.80	5.14	5.50	5.87	6.25	6.64
Iu (in ⁴ /ft)	49.6	56.8	64.4	72.6	81.5	91.1	101.5	112.7
Ic (in ⁴ /ft)	23.9	26.7	29.8	33.0	36.5	40.2	44.1	48.2
Id (in ⁴ /ft)	36.8	41.8	47.1	52.8	59.0	65.6	72.8	80.5
SLDP	578	657	741	831	928	1033	1145	1266
SWDP	0.630	0.612	0.594	0.575	0.555	0.535	0.515	0.494
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	301	320	339	358	377	396	415	434
14.5	279	296	314	331	349	366	383	401
15.0	258	274	291	307	323	339	355	371
15.5	240	255	270	285	299	314	329	344
16.0	223	237	251	265	278	292	306	320
16.5	208	221	234	246	259	272	284	297
17.0	194	206	218	230	241	253	265	277
17.5	182	193	203	214	225	236	247	258
18.0	170	180	190	200	211	221	231	241
18.5	159	169	178	188	197	206	216	225
19.0	149	158	167	176	184	193	202	211
19.5	140	148	157	165	173	181	189	197
20.0	132	139	147	155	162	170	177	185
20.5	124	131	138	145	152	159	166	173
21.0	117	123	130	136	143	149	156	163
21.5	110	116	122	128	134	140	146	153
22.0	104	109	115	121	126	132	138	143
22.5	98	103	108	113	119	124	129	134
23.0	92	97	102	107	112	117	121	126
23.5	87	92	96	101	105	110	114	119
24.0	82	86	91	95	99	103	107	112
24.5	78	81	85	89	93	97	101	105
25.0	73	77	81	84	88	91	95	99
25.5	69	73	76	79	83	86	89	93
26.0	65	69	72	75	78	81	84	87
26.5	62	65	68	70	73	76	79	82
27.0	58	61	64	66	69	71	74	77
27.5	55	58	60	62	65	67	70	72
28.0		54	57	59	61	63	65	67
28.5		51	53	55	57	59	61	63
29.0			50	52	54	56	57	59
29.5				49	50	52	54	55
30.0					47	49	50	52
30.5						46	47	48
31.0							44	45
31.5								42
32.0								

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

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).

9. Fy (rebar) = 60 ksi; f'c (concrete) = 4000 psi.

COMSLAB CS210 Load Table

Imperial Units

#6 Rebar

Light Weight Concrete: 110 pcf

Base Steel Thickness: 0.0435"

COMPOSITE SECTION PROPERTIES AND STRENGTH								
SELF WEIGHT (psf)	41.2	45.8	50.4	55.0	59.6	64.1	68.7	73.3
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)	15.4	16.4	17.4	18.5	19.5	20.5	21.6	22.6
φVn (kip/ft)	4.14	4.47	4.80	5.14	5.50	5.87	6.25	6.64
Iu (in ⁴ /ft)	51.0	58.5	66.4	74.8	84.0	93.8	104.5	116.0
Ic (in ⁴ /ft)	26.3	29.5	32.9	36.5	40.4	44.5	48.9	53.6
Id (in ⁴ /ft)	38.7	44.0	49.6	55.7	62.2	69.2	76.7	84.8
SLDP	608	692	781	876	978	1088	1207	1334
SWDP	0.616	0.597	0.579	0.560	0.541	0.521	0.502	0.482
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	339 v	364 v	391 v	418 v	446 v	476	498	521
14.5	326 v	351 v	376 v	398	419	440	461	482
15.0	311	330	350	369	389	408	428	447
15.5	289	307	325	343	361	379	397	415
16.0	269	286	303	319	336	353	370	386
16.5	251	267	282	298	313	329	344	360
17.0	235	249	264	278	293	307	321	336
17.5	220	233	247	260	274	287	300	314
18.0	206	219	231	244	256	269	281	294
18.5	194	205	217	228	240	252	263	275
19.0	182	193	204	214	225	236	247	258
19.5	171	181	191	202	212	222	232	242
20.0	161	171	180	190	199	208	218	227
20.5	152	161	170	178	187	196	205	214
21.0	143	152	160	168	176	185	193	201
21.5	135	143	151	158	166	174	182	189
22.0	128	135	142	150	157	164	171	178
22.5	121	128	134	141	148	155	161	168
23.0	114	121	127	133	140	146	152	159
23.5	108	114	120	126	132	138	144	150
24.0	102	108	114	119	125	130	136	141
24.5	97	102	107	113	118	123	128	133
25.0	92	97	102	106	111	116	121	126
25.5	87	92	96	101	105	110	114	119
26.0	83	87	91	95	100	104	108	112
26.5	78	82	86	90	94	98	102	106
27.0	74	78	82	85	89	93	96	100
27.5	71	74	77	81	84	88	91	94
28.0	67	70	73	77	80	83	86	89
28.5		67	70	72	75	78	81	84
29.0			66	69	71	74	77	79
29.5			62	65	67	70	72	75
30.0				61	64	66	68	71
30.5					60	62	64	66
31.0						59	61	63
31.5							57	59
32.0								55

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

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).

9. Fy (rebar) = 60 ksi; f'c (concrete) = 4000 psi.

COMSLAB CS210 Load Table

Imperial Units

#7 Rebar

Light Weight Concrete: 110 pcf

Base Steel Thickness: 0.0435"

COMPOSITE SECTION PROPERTIES AND STRENGTH								
SELF WEIGHT (psf)	41.5	46.1	50.7	55.2	59.8	64.4	69.0	73.6
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)	18.1	19.3	20.5	21.7	22.9	24.1	25.4	26.6
φVn (kip/ft)	4.14	4.47	4.80	5.14	5.50	5.87	6.25	6.64
Iu (in ⁴ /ft)	52.6	60.3	68.5	77.3	86.7	96.9	107.9	119.7
Ic (in ⁴ /ft)	29.0	32.5	36.3	40.4	44.7	49.4	54.3	59.5
Id (in ⁴ /ft)	40.8	46.4	52.4	58.8	65.7	73.1	81.1	89.6
SLDP	642	730	825	926	1034	1150	1276	1410
SWDP	0.602	0.582	0.564	0.545	0.526	0.507	0.488	0.469
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 v	314 v	337 v	360 v	385 v	410 v	436 v	463 v
16.5	283 v	304 v	326 v	348 v	372 v	395	414	433
17.0	274 v	294 v	315 v	334	352	369	387	404
17.5	264	280	297	313	329	346	362	379
18.0	248	263	278	294	309	324	340	355
18.5	233	247	262	276	290	304	319	333
19.0	219	233	246	259	273	286	299	313
19.5	207	219	232	244	257	269	282	294
20.0	195	207	218	230	242	253	265	277
20.5	184	195	206	217	228	239	250	261
21.0	174	184	195	205	215	225	236	246
21.5	164	174	184	193	203	213	222	232
22.0	156	165	174	183	192	201	210	219
22.5	147	156	165	173	182	190	199	207
23.0	140	148	156	164	172	180	188	196
23.5	133	140	148	155	163	170	178	185
24.0	126	133	140	147	154	161	168	175
24.5	120	126	133	139	146	153	159	166
25.0	114	120	126	132	139	145	151	157
25.5	108 d	114	120	126	131	137	143	149
26.0	101 d	108	114	119	125	130	136	141
26.5	96 d	103	108	113	118	124	129	134
27.0	91 d	98	103	108	112	117	122	127
27.5	86 d	93	98	102	107	111	116	120
28.0	81 d	89	93	97	101	106	110	114
28.5	77 d	84	88	92	96	100	104	108
29.0		80	84	88	91	95	99	103
29.5			80	83	87	90	94	97
30.0				79	83	86	89	92
30.5					78	81	85	88
31.0					74	77	80	83
31.5						73	76	79
32.0							72	75
32.5								71
33.0								
33.5								
34.0								

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

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).

9. Fy (rebar) = 60 ksi; f'c (concrete) = 4000 psi.

COMSLAB CS210 Load Table

Imperial Units

#8 Rebar

Light Weight Concrete: 110 pcf

Base Steel Thickness: 0.0435"

COMPOSITE SECTION PROPERTIES AND STRENGTH								
SELF WEIGHT (psf)	41.8	46.4	51.0	55.6	60.1	64.7	69.3	73.9
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)	21.1	22.5	24.0	25.4	26.8	28.2	29.6	31.1
φVn (kip/ft)	4.14	4.47	4.80	5.14	5.50	5.87	6.25	6.64
Iu (in ⁴ /ft)	54.3	62.3	70.8	79.9	89.7	100.2	111.6	123.8
Ic (in ⁴ /ft)	32.0	35.7	39.9	44.5	49.4	54.6	60.0	65.8
Id (in ⁴ /ft)	43.1	49.0	55.4	62.2	69.5	77.4	85.8	94.8
SLDP	679	771	871	979	1094	1218	1350	1492
SWDP	0.587	0.568	0.549	0.530	0.511	0.492	0.474	0.455
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	292 v	314 v	337 v	360 v	385 v	410 v	436 v	463 v
16.5	283 v	304 v	325 v	348 v	372 v	396 v	421 v	447 v
17.0	273 v	294 v	315 v	337 v	359 v	383 v	407 v	433 v
17.5	265 v	284 v	305 v	326 v	348 v	371 v	394 v	419 v
18.0	256 v	275 v	295 v	316 v	337 v	359 v	382 v	405 v
18.5	249 v	267 v	286 v	306 v	327 v	348 v	370 v	393 v
19.0	241 v	259 v	278 v	297 v	317 v	337 v	359	375
19.5	234 v	251 v	269 v	288 v	307	323	338	353
20.0	228 v	244 v	261	276	290	304	319	333
20.5	219 d	233	247	260	274	287	301	314
21.0	204 d	221	233	246	259	271	284	297
21.5	190 d	209	221	233	245	257	269	281
22.0	177 d	198	209	221	232	243	254	265
22.5	165 d	188	198	209	220	230	241	251
23.0	155 d	176 d	188	198	208	218	228	238
23.5	145 d	165 d	179	188	198	207	216	226
24.0	136 d	155 d	170	179	188	196	205	214
24.5	128 d	146 d	161	170	178	187	195	203
25.0	121 d	137 d	154	161	169	177	185	193
25.5	114 d	129 d	146 d	154	161	168	176	183
26.0	107 d	122 d	138 d	146	153	160	167	174
26.5	101 d	115 d	130 d	139	146	152	159	166
27.0	96 d	109 d	123 d	132	139	145	151	158
27.5	91 d	103 d	116 d	126	132	138	144	150
28.0	86 d	98 d	110 d	120	126	131	137	143
28.5	81 d	93 d	105 d	115	120	125	130	136
29.0		88 d	99 d	109	114	119	124	129
29.5			94 d	104	109	114	118	123
30.0			90 d	99	104	108	113	117
30.5				95	99	103	107	112
31.0					94	98	102	106
31.5						94	97	101
32.0							93	96
32.5								92
33.0								87
33.5								
34.0								

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

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).

9. Fy (rebar) = 60 ksi; f'c (concrete) = 4000 psi.

COMSLAB CS210 Load Table

Imperial Units

#9 Rebar

Light Weight Concrete: 110 pcf

Base Steel Thickness: 0.0435"

COMPOSITE SECTION PROPERTIES AND STRENGTH								
SELF WEIGHT (psf)	42.2	46.7	51.3	55.9	60.5	65.1	69.7	74.2
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)	24.6	26.2	27.9	29.5	31.2	32.8	34.5	36.2
φVn (kip/ft)	4.14	4.47	4.80	5.14	5.50	5.87	6.25	6.64
Iu (in ⁴ /ft)	56.0	64.5	73.4	82.8	93.0	103.9	115.7	128.3
Ic (in ⁴ /ft)	35.4	39.1	43.8	48.9	54.4	60.1	66.3	72.7
Id (in ⁴ /ft)	45.7	51.8	58.6	65.9	73.7	82.0	91.0	100.5
SLDP	719	815	922	1036	1159	1290	1431	1582
SWDP	0.574	0.553	0.534	0.515	0.496	0.478	0.459	0.441
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	256 v	275 v	295 v	315 v	337 v	359 v	382 v	405 v
18.5	248 v	267 v	286 v	306 v	326 v	348 v	370 v	393 v
19.0	241 v	259 v	277 v	296 v	316 v	337 v	359 v	381 v
19.5	234 v	251 v	269 v	288 v	307 v	327 v	348 v	370 v
20.0	227 v	244 v	261 v	280 v	298 v	318 v	338 v	359 v
20.5	221 v	237 v	254 v	272 v	290 v	309 v	329 v	349 v
21.0	215 v	231 v	247 v	264 v	282 v	300 v	320 v	339 v
21.5	201 d	225 v	241 v	257 v	274 v	292 v	311 v	330 v
22.0	188 d	212 d	234 v	250 v	267 v	285 v	303 v	318
22.5	175 d	199 d	225 d	244 v	260 v	276	289	302
23.0	164 d	186 d	210 d	237 d	249	262	274	286
23.5	154 d	174 d	197 d	222 d	237	249	260	272
24.0	144 d	164 d	185 d	208 d	225	236	247	258
24.5	136 d	154 d	174 d	196 d	214	225	235	246
25.0	128 d	145 d	164 d	184 d	204	214	224	234
25.5	120 d	136 d	154 d	174 d	194 d	204	213	222
26.0	114 d	129 d	146 d	164 d	183 d	194	203	212
26.5	107 d	122 d	138 d	155 d	173 d	185	193	202
27.0	101 d	115 d	130 d	146 d	164 d	176	184	192
27.5	96 d	109 d	123 d	138 d	155 d	168	176	183
28.0	91 d	103 d	117 d	131 d	147 d	161	168	175
28.5	86 d	98 d	111 d	124 d	139 d	153	160	167
29.0	82 d	93 d	105 d	118 d	132 d	146	153	159
29.5		88 d	100 d	112 d	125 d	140 d	146	152
30.0			95 d	107 d	119 d	133 d	139	145
30.5				101 d	113 d	126 d	133	139
31.0				97 d	108 d	120 d	127	132
31.5					103 d	115 d	122	127
32.0						109 d	116	121
32.5							111	116
33.0								110
33.5								
34.0								
34.5								
35.0								
35.5								
36.0								

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

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).

9. Fy (rebar) = 60 ksi; f'c (concrete) = 4000 psi.

COMSLABCS210 Load Table

Imperial Units

#10 Rebar

Light Weight Concrete: 110 pcf

Base Steel Thickness: 0.0435"

COMPOSITE SECTION PROPERTIES AND STRENGTH								
SELF WEIGHT (psf)	42.6	47.2	51.8	56.4	61.0	65.5	70.1	74.7
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)	28.7	30.6	32.6	34.5	36.5	38.5	40.4	42.4
φVn (kip/ft)	4.14	4.47	4.80	5.14	5.50	5.87	6.25	6.64
Iu (in ⁴ /ft)	58.0	66.9	76.2	86.2	96.8	108.2	120.4	133.6
Ic (in ⁴ /ft)	39.4	43.2	48.3	54.0	60.1	66.6	73.4	80.7
Id (in ⁴ /ft)	48.7	55.0	62.2	70.1	78.4	87.4	96.9	107.2
SLDP	767	866	979	1102	1234	1375	1525	1686
SWDP	0.560	0.538	0.518	0.499	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	256 v	275 v	294 v	315 v	336 v	358 v	381 v	405 v
18.5	248 v	266 v	285 v	305 v	326 v	347 v	369 v	392 v
19.0	241 v	258 v	277 v	296 v	316 v	337 v	358 v	381 v
19.5	234 v	251 v	269 v	287 v	307 v	327 v	348 v	369 v
20.0	227 v	244 v	261 v	279 v	298 v	318 v	338 v	359 v
20.5	221 v	237 v	254 v	271 v	290 v	309 v	328 v	349 v
21.0	215 v	230 v	247 v	264 v	282 v	300 v	319 v	339 v
21.5	209 v	224 v	240 v	257 v	274 v	292 v	311 v	330 v
22.0	200 d	218 v	234 v	250 v	267 v	284 v	302 v	321 v
22.5	187 d	211 d	228 v	244 v	260 v	277 v	294 v	313 v
23.0	175 d	198 d	222 v	237 v	253 v	270 v	287 v	305 v
23.5	164 d	185 d	210 d	231 v	247 v	263 v	280 v	297 v
24.0	154 d	174 d	197 d	221 d	241 v	256 v	273 v	290 v
24.5	145 d	164 d	185 d	208 d	233 d	250 v	266 v	283 v
25.0	136 d	154 d	174 d	196 d	219 d	244 v	260 v	276 v
25.5	128 d	145 d	164 d	185 d	207 d	230 d	254 v	269 v
26.0	121 d	137 d	155 d	174 d	195 d	217 d	241 d	257
26.5	114 d	129 d	146 d	165 d	184 d	205 d	228 d	246
27.0	108 d	122 d	138 d	156 d	174 d	194 d	215 d	235
27.5	102 d	116 d	131 d	147 d	165 d	184 d	204 d	224
28.0	97 d	110 d	124 d	139 d	156 d	174 d	193 d	213 d
28.5	92 d	104 d	117 d	132 d	148 d	165 d	183 d	202 d
29.0	87 d	99 d	112 d	126 d	141 d	157 d	174 d	192 d
29.5	83 d	94 d	106 d	119 d	134 d	149 d	165 d	182 d
30.0		89 d	101 d	113 d	127 d	141 d	157 d	173 d
30.5			96 d	108 d	121 d	135 d	149 d	165 d
31.0				103 d	115 d	128 d	142 d	157 d
31.5					110 d	122 d	136 d	150 d
32.0					105 d	117 d	129 d	143 d
32.5						111 d	123 d	136 d
33.0							118 d	130 d
33.5								125 d
34.0								
34.5								
35.0								
35.5								
36.0								

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

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).

9. Fy (rebar) = 60 ksi; f'c (concrete) = 4000 psi.

COMSLAB CS210 Load Table

Imperial Units

#11 Rebar

Light Weight Concrete: 110 pcf

Base Steel Thickness: 0.0435"

COMPOSITE SECTION PROPERTIES AND STRENGTH								
SELF WEIGHT (psf)	43.1	47.7	52.3	56.9	61.5	66.0	70.6	75.2
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)	33.0	35.3	37.6	39.9	42.2	44.4	46.7	49.0
φVn (kip/ft)	4.14	4.47	4.80	5.14	5.50	5.87	6.25	6.64
Iu (in ⁴ /ft)	60.0	69.3	79.1	89.5	100.6	112.5	125.3	139.0
Ic (in ⁴ /ft)	43.8	47.5	52.6	59.0	65.8	73.0	80.7	88.8
Id (in ⁴ /ft)	51.9	58.4	65.9	74.3	83.2	92.8	103.0	113.9
SLDP	816	919	1036	1168	1309	1460	1620	1792
SWDP	0.548	0.525	0.504	0.485	0.466	0.448	0.430	0.413
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	255 v	274 v	294 v	315 v	336 v	358 v	381 v	404 v
18.5	248 v	266 v	285 v	305 v	326 v	347 v	369 v	392 v
19.0	240 v	258 v	277 v	296 v	316 v	337 v	358 v	380 v
19.5	233 v	251 v	268 v	287 v	306 v	327 v	347 v	369 v
20.0	227 v	243 v	261 v	279 v	298 v	317 v	337 v	358 v
20.5	220 v	237 v	253 v	271 v	289 v	308 v	328 v	348 v
21.0	214 v	230 v	246 v	264 v	281 v	300 v	319 v	339 v
21.5	209 v	224 v	240 v	256 v	274 v	292 v	310 v	329 v
22.0	203 v	218 v	233 v	250 v	266 v	284 v	302 v	321 v
22.5	198 v	212 v	227 v	243 v	259 v	276 v	294 v	312 v
23.0	186 d	207 v	222 v	237 v	253 v	269 v	287 v	304 v
23.5	175 d	197 d	216 v	231 v	246 v	263 v	279 v	297 v
24.0	164 d	185 d	208 d	225 v	240 v	256 v	272 v	289 v
24.5	154 d	173 d	196 d	220 v	235 v	250 v	266 v	282 v
25.0	145 d	163 d	184 d	208 d	229 v	244 v	259 v	275 v
25.5	137 d	154 d	174 d	196 d	219 d	238 v	253 v	269 v
26.0	129 d	145 d	164 d	185 d	207 d	231 d	247 v	263 v
26.5	122 d	137 d	155 d	174 d	195 d	218 d	242 v	257 v
27.0	115 d	130 d	146 d	165 d	185 d	206 d	229 d	251 v
27.5	109 d	123 d	138 d	156 d	175 d	195 d	216 d	239 d
28.0	103 d	116 d	131 d	148 d	166 d	185 d	205 d	227 d
28.5	98 d	110 d	124 d	140 d	157 d	175 d	194 d	215 d
29.0	93 d	105 d	118 d	133 d	149 d	166 d	185 d	204 d
29.5	88 d	99 d	112 d	126 d	142 d	158 d	175 d	194 d
30.0		94 d	107 d	120 d	135 d	150 d	167 d	184 d
30.5			101 d	114 d	128 d	143 d	159 d	175 d
31.0			97 d	109 d	122 d	136 d	151 d	167 d
31.5				104 d	116 d	130 d	144 d	159 d
32.0					111 d	124 d	137 d	152 d
32.5						118 d	131 d	145 d
33.0						113 d	125 d	139 d
33.5							120 d	132 d
34.0								127 d
34.5								
35.0								
35.5								
36.0								

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

NOTES:

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