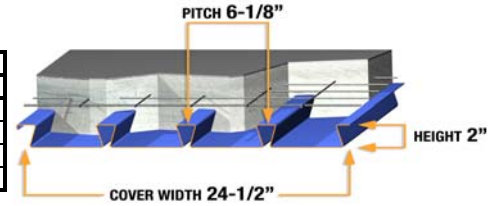


SECTION PROPERTIES

fy=40 ksi

GAGE	Wd	I _b	S _p	S _n	Rbe			Rbi		
					2"	3"	4"	4"	5"	6"
22	2.22	0.409	0.289	0.268	1089	1254	1393	2076	2239	2386
20	2.69	0.497	0.363	0.337	1550	1777	1969	2947	3170	3372
18	3.56	0.661	0.485	0.462	2583	2942	3245	4892	5245	5563
16	4.48	0.836	0.617	0.598	3937	4461	4902	7441	7952	8414



MAXIMUM SUPERIMPOSED LRFD LOADS, (psf), NO STUDS ON BEAMS

h (Wc)		4 (44.4)				4.25 (47.4)				4.5 (50.4)				4.75 (53.5)			
Span	Load Combinations	GAGE															
		22	20	18	16	22	20	18	16	22	20	18	16	22	20	18	16
8'-0"	λ _D D+λ _L L (Strength)	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
	D+L (Deflection)	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
	L (Deflection)	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
9'-0"	λ _D D+λ _L L (Strength)	359	377	400	400	388	400	400	400	400	400	400	400	400	400	400	400
	D+L (Deflection)	359	377	400	400	388	400	400	400	400	400	400	400	400	400	400	400
	L (Deflection)	356	377	400	400	388	400	400	400	400	400	400	400	400	400	400	400
10'-0"	λ _D D+λ _L L (Strength)	279	302	336	400	314	339	377	400	350	378	400	400	389	400	400	400
	D+L (Deflection)	279	302	336	400	314	339	377	400	350	378	400	400	389	400	400	400
	L (Deflection)	259	278	311	341	306	328	366	400	350	378	400	400	389	400	400	400
11'-0"	λ _D D+λ _L L (Strength)	219	237	265	289	246	267	298	324	276	299	333	362	307	332	370	400
	D+L (Deflection)	219	237	265	289	246	267	298	324	276	299	333	362	307	332	370	400
	L (Deflection)	195	209	233	256	230	247	275	302	269	288	321	352	307	332	370	400
12'-0"	λ _D D+λ _L L (Strength)	172	188	211	231	195	212	238	260	219	238	267	291	244	266	298	324
	D+L (Deflection)	172	188	211	231	195	212	238	260	219	238	267	291	244	266	298	324
	L (Deflection)	150	161	180	197	177	190	212	232	207	222	247	271	240	258	286	314
13'-0"	λ _D D+λ _L L (Strength)	137	150	169	186	155	170	192	210	175	191	216	236	196	214	241	263
	D+L (Deflection)	130	143	164	184	155	170	192	210	175	191	216	236	196	214	241	263
	L (Deflection)	118	127	141	155	139	149	166	183	163	175	194	213	189	203	225	247
14'-0"	λ _D D+λ _L L (Strength)	108	119	136	150	124	136	155	170	140	154	175	192	157	173	196	215
	D+L (Deflection)	95	105	122	138	118	129	149	167	140	154	175	192	157	173	196	215
	L (Deflection)	94	101	113	124	112	120	133	146	130	140	156	171	151	162	180	198
15'-0"	λ _D D+λ _L L (Strength)	85	95	109	121	98	109	125	138	112	124	142	157	126	140	160	176
	D+L (Deflection)	69	77	90	103	86	96	112	126	106	117	136	153	126	140	160	176
	L (Deflection)	69	77	90	101	86	96	108	119	106	114	127	139	123	132	147	161
16'-0"	λ _D D+λ _L L (Strength)	66	75	87	98	92	87	101	112	100	99	115	128	108	113	130	144
	D+L (Deflection)	48	55	66	76	62	70	83	95	78	87	102	117	96	107	124	141
	L (Deflection)	48	55	66	76	62	70	83	95	78	87	102	114	96	107	121	132
17'-0"	λ _D D+λ _L L (Strength)	66	58	69	78	74	68	80	91	80	79	92	104	87	90	105	118
	D+L (Deflection)	32	38	47	55	44	50	61	71	57	64	76	88	71	80	94	107
	L (Deflection)	32	38	47	55	44	50	61	71	57	64	76	88	71	80	94	107
18'-0"	λ _D D+λ _L L (Strength)	53	44	54	62	59	69	63	72	64	79	74	84	70	90	85	96
	D+L (Deflection)	20	24	32	39	29	34	43	51	39	46	56	65	51	58	70	81
	L (Deflection)	20	24	32	39	29	34	43	51	39	46	56	65	51	58	70	81
19'-0"	λ _D D+λ _L L (Strength)	41	48	41	48	46	56	49	57	50	65	58	67	55	74	67	77
	D+L (Deflection)	10	14	20	26	17	22	29	36	26	31	39	47	35	41	51	61
	L (Deflection)	10	14	20	26	17	22	29	36	26	31	39	47	35	41	51	61
20'-0"	λ _D D+λ _L L (Strength)	31	38	30	36	35	45	37	44	38	52	44	52	42	60	71	61
	D+L (Deflection)	2	5	10	15	8	11	18	23	14	19	26	33	22	27	36	44
	L (Deflection)	2	5	10	15	8	11	18	23	14	19	26	33	22	27	36	44

MAXIMUM UNSHORED CONSTRUCTION CLEAR SPANS

1span	6'-5"	7'-5"	8'-9"	10'-1"	6'-3"	7'-2"	8'-6"	9'-9"	6'-2"	7'-0"	8'-4"	9'-6"	6'-0"	6'-10"	8'-2"	9'-4"
2span	8'-1"	9'-1"	10'-7"	12'-0"	7'-11"	8'-10"	10'-4"	11'-9"	7'-9"	8'-8"	10'-1"	11'-6"	7'-7"	8'-6"	9'-11"	11'-3"
3span	8'-5"	9'-4"	10'-11"	12'-5"	8'-2"	9'-2"	10'-8"	12'-1"	8'-0"	8'-11"	10'-5"	11'-10"	7'-10"	8'-9"	10'-3"	11'-7"
cantilever	2'-8"	3'-2"	4'-0"	4'-9"	2'-8"	3'-2"	3'-11"	4'-8"	2'-7"	3'-1"	3'-10"	4'-7"	2'-7"	3'-0"	3'-9"	4'-6"
cy/100sf	1.13				1.21				1.29				1.37			

8'-0"	λ _D D+λ _L L (Strength)	400	← Max. superimposed LRFD factored dead + live load (psf) (governed by strength limitation)
	D+L (Deflection)	400	← Max. superimposed LRFD unfactored dead + live load (psf) (governed by deflection limitation of L/240)
	L (Deflection)	400	← Max. superimposed LRFD unfactored live load (psf) (governed by deflection limitation of L/360)
			← Vertical load span (center to center spacing)

- Wd Weight of deck (uncoated), psf
- I_b Moment of inertia for deflection per foot of deck width (in⁴)/ft
- S_p Section modulus for positive bending per foot of deck width, (in³)/ft
- S_n Section modulus for negative bending per foot of deck width, (in³)/ft
- f_c 3000 psi
- λ_D, λ_L Load factors for dead and live loads to be applied by Engineer in accordance with Building Codes.
- Rbe Allowable exterior web crippling value per foot of deck, plf
- Rbi Allowable interior web crippling value per foot of deck, plf
- h Total height of concrete slab, in
- Wc Weight of concrete (neglecting deflection), psf
- D Uniform dead load, psf
- L Uniform live load, psf

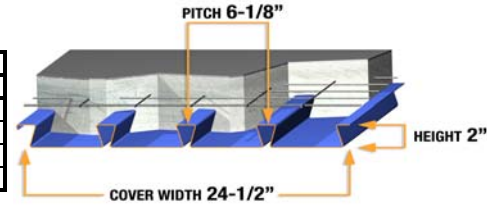
If welded wire fabric is not supplied per ACI requirements (0.00075'Ac), reduce loads by 10%. The section property table is based on 2001 AISI's Cold-Formed Steel Design Manual, 2004 Supplement. The live loads and unshored construction clear spans are based on the Steel Deck Institute's Composite Deck Design Handbook, March 1997 and Design Manual, Pub. No. 30, and ASCE's Standard for the Structural Design of Composite Slabs. The loads in these tables are based on a Simple Span Design Analysis.

145 PCF NORMAL WEIGHT CONCRETE TABLE

SECTION PROPERTIES

fy=40 ksi

GAGE	Wd	I _b	S _p	S _n	Rbe			Rbi		
					2"	3"	4"	4"	5"	6"
22	2.22	0.409	0.289	0.268	1089	1254	1393	2076	2239	2386
20	2.69	0.497	0.363	0.337	1550	1777	1969	2947	3170	3372
18	3.56	0.661	0.485	0.462	2583	2942	3245	4892	5245	5563
16	4.48	0.836	0.617	0.598	3937	4461	4902	7441	7952	8414



MAXIMUM SUPERIMPOSED LRFD LOADS, (psf), NO STUDS ON BEAMS

h (Wc)		5 (56.5)				5.25 (59.5)				5.5 (62.5)				5.75 (65.5)			
Span	Load Combinations	GAGE															
		22	20	18	16	22	20	18	16	22	20	18	16	22	20	18	16
8'-0"	λ _D D+λ _L L (Strength)	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
	D+L (Deflection)	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
	L (Deflection)	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
9'-0"	λ _D D+λ _L L (Strength)	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
	D+L (Deflection)	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
	L (Deflection)	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
10'-0"	λ _D D+λ _L L (Strength)	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
	D+L (Deflection)	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
	L (Deflection)	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
11'-0"	λ _D D+λ _L L (Strength)	339	368	400	400	374	400	400	400	400	400	400	400	400	400	400	400
	D+L (Deflection)	339	368	400	400	374	400	400	400	400	400	400	400	400	400	400	400
	L (Deflection)	339	368	400	400	374	400	400	400	400	400	400	400	400	400	400	400
12'-0"	λ _D D+λ _L L (Strength)	271	295	330	359	299	325	363	396	328	357	399	400	359	390	400	400
	D+L (Deflection)	271	295	330	359	299	325	363	396	328	357	399	400	359	390	400	400
	L (Deflection)	271	295	329	359	299	325	363	396	328	357	399	400	359	390	400	400
13'-0"	λ _D D+λ _L L (Strength)	218	238	268	293	241	263	296	323	265	289	325	355	291	317	356	389
	D+L (Deflection)	218	238	268	293	241	263	296	323	265	289	325	355	291	317	356	389
	L (Deflection)	218	233	259	284	241	263	296	323	265	289	325	355	291	317	356	389
14'-0"	λ _D D+λ _L L (Strength)	176	193	218	240	195	214	242	265	215	236	267	292	237	259	292	321
	D+L (Deflection)	176	193	218	240	195	214	242	265	215	236	267	292	237	259	292	321
	L (Deflection)	174	187	207	227	195	213	237	259	215	236	267	292	237	259	292	321
15'-0"	λ _D D+λ _L L (Strength)	143	157	179	197	154	174	199	219	164	193	220	242	174	212	241	266
	D+L (Deflection)	143	157	179	197	154	174	199	219	164	193	220	242	174	212	241	266
	L (Deflection)	142	152	169	185	154	174	193	211	164	193	219	239	174	212	241	266
16'-0"	λ _D D+λ _L L (Strength)	116	127	146	162	125	142	163	181	133	158	181	200	142	187	200	221
	D+L (Deflection)	116	127	146	162	125	142	163	181	133	158	181	200	142	187	200	221
	L (Deflection)	116	125	139	152	125	142	159	174	133	158	180	197	142	184	200	221
17'-0"	λ _D D+λ _L L (Strength)	94	122	119	133	101	135	134	149	108	146	149	166	114	155	165	184
	D+L (Deflection)	87	97	114	129	101	117	134	149	108	138	149	166	114	155	165	184
	L (Deflection)	87	97	114	127	101	117	132	145	108	136	149	164	114	153	165	184
18'-0"	λ _D D+λ _L L (Strength)	75	101	97	109	81	113	109	123	86	120	122	137	92	128	136	153
	D+L (Deflection)	64	73	86	99	79	88	104	119	86	106	122	137	92	125	136	153
	L (Deflection)	64	73	86	99	79	88	104	119	86	106	122	137	92	125	136	153
19'-0"	λ _D D+λ _L L (Strength)	59	84	77	88	64	92	88	100	68	99	121	113	73	105	134	126
	D+L (Deflection)	46	53	64	75	58	66	79	92	68	80	95	110	73	96	113	126
	L (Deflection)	46	53	64	75	58	66	79	92	68	80	95	110	73	96	113	126
20'-0"	λ _D D+λ _L L (Strength)	46	69	81	71	49	75	91	81	53	80	102	92	56	86	113	104
	D+L (Deflection)	31	37	47	56	41	48	59	69	52	60	72	84	56	73	87	101
	L (Deflection)	31	37	47	56	41	48	59	69	52	60	72	84	56	73	87	101

MAXIMUM UNSHORED CONSTRUCTION CLEAR SPANS

1span	5'-11"	6'-9"	7'-11"	9'-1"	5'-9"	6'-7"	7'-9"	8'-11"	5'-8"	6'-6"	7'-8"	8'-9"	5'-7"	6'-5"	7'-7"	8'-8"
2span	7'-5"	8'-4"	9'-8"	11'-0"	7'-3"	8'-2"	9'-6"	10'-9"	7'-2"	8'-0"	9'-4"	10'-7"	7'-0"	7'-10"	9'-2"	10'-5"
3span	7'-8"	8'-7"	10'-0"	11'-4"	7'-6"	8'-5"	9'-10"	11'-2"	7'-5"	8'-3"	9'-8"	10'-11"	7'-3"	8'-1"	9'-6"	10'-9"
cantilever	2'-6"	3'-0"	3'-9"	4'-5"	2'-6"	2'-11"	3'-8"	4'-4"	2'-6"	2'-11"	3'-7"	4'-3"	2'-5"	2'-10"	3'-7"	4'-3"
cy/100sf	1.44				1.52				1.60				1.67			

8'-0"	λ _D D+λ _L L (Strength)	400	← Max. superimposed LRFD factored dead + live load (psf) (governed by strength limitation)
	D+L (Deflection)	400	← Max. superimposed LRFD unfactored dead + live load (psf) (governed by deflection limitation of L/240)
	L (Deflection)	400	← Max. superimposed LRFD unfactored live load (psf) (governed by deflection limitation of L/360)
			← Vertical load span (center to center spacing)

- Wd Weight of deck (uncoated), psf
- I_b Moment of inertia for deflection per foot of deck width (in⁴/ft)
- S_p Section modulus for positive bending per foot of deck width, (in³/ft)
- S_n Section modulus for negative bending per foot of deck width, (in³/ft)
- f_c 3000 psi
- λ_D, λ_L Load factors for dead and live loads to be applied by Engineer in accordance with Building Codes.
- Rbe Allowable exterior web crippling value per foot of deck, plf
- Rbi Allowable interior web crippling value per foot of deck, plf
- h Total height of concrete slab, in
- Wc Weight of concrete (neglecting deflection), psf
- D Uniform dead load, psf
- L Uniform live load, psf

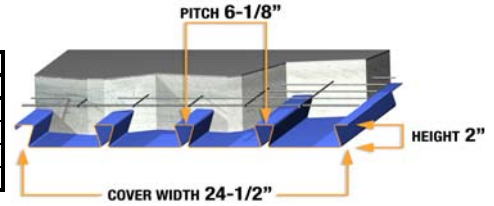
If welded wire fabric is not supplied per ACI requirements (0.00075*Ac), reduce loads by 10%. The section property table is based on 2001 AISI's Cold-Formed Steel Design Manual, 2004 Supplement. The live loads and unshored construction clear spans are based on the Steel Deck Institute's Composite Deck Design Handbook, March 1997 and Design Manual, Pub. No. 30, and ASCE's Standard for the Structural Design of Composite Slabs. The loads in these tables are based on a Simple Span Design Analysis.

145 PCF NORMAL WEIGHT CONCRETE TABLE

SECTION PROPERTIES

fy=40 ksi

GAGE	Wd	I _b	S _p	S _n	Rbe			Rbi		
					2"	3"	4"	4"	5"	6"
22	2.22	0.409	0.289	0.268	1089	1254	1393	2076	2239	2386
20	2.69	0.497	0.363	0.337	1550	1777	1969	2947	3170	3372
18	3.56	0.661	0.485	0.462	2583	2942	3245	4892	5245	5563
16	4.48	0.836	0.617	0.598	3937	4461	4902	7441	7952	8414



MAXIMUM SUPERIMPOSED LRFD LOADS, (psf), NO STUDS ON BEAMS

h (Wc)		6 (68.6)				6.25 (71.6)				6.5 (74.6)				6.75 (77.6)			
Span	Load Combinations	GAGE															
		22	20	18	16	22	20	18	16	22	20	18	16	22	20	18	16
8'-0"	λ _D D+λ _L L (Strength)	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
	D+L (Deflection)	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
	L (Deflection)	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
9'-0"	λ _D D+λ _L L (Strength)	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
	D+L (Deflection)	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
	L (Deflection)	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
10'-0"	λ _D D+λ _L L (Strength)	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
	D+L (Deflection)	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
	L (Deflection)	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
11'-0"	λ _D D+λ _L L (Strength)	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
	D+L (Deflection)	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
	L (Deflection)	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
12'-0"	λ _D D+λ _L L (Strength)	390	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
	D+L (Deflection)	390	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
	L (Deflection)	390	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
13'-0"	λ _D D+λ _L L (Strength)	317	345	388	400	344	375	400	400	372	400	400	400	399	400	400	400
	D+L (Deflection)	317	345	388	400	344	375	400	400	372	400	400	400	399	400	400	400
	L (Deflection)	317	345	388	400	344	375	400	400	372	400	400	400	399	400	400	400
14'-0"	λ _D D+λ _L L (Strength)	227	283	319	350	239	308	347	381	252	333	376	400	264	360	400	400
	D+L (Deflection)	227	283	319	350	239	308	347	381	252	333	376	400	264	360	400	400
	L (Deflection)	227	283	319	350	239	308	347	381	252	333	376	400	264	360	400	400
15'-0"	λ _D D+λ _L L (Strength)	184	233	264	291	195	254	288	317	205	267	313	344	215	281	338	372
	D+L (Deflection)	184	233	264	291	195	254	288	317	205	267	313	344	215	281	338	372
	L (Deflection)	184	233	264	291	195	254	288	317	205	267	313	344	215	281	338	372
16'-0"	λ _D D+λ _L L (Strength)	150	199	219	242	158	210	239	265	167	221	261	288	175	233	282	312
	D+L (Deflection)	150	199	219	242	158	210	239	265	167	221	261	288	175	233	282	312
	L (Deflection)	150	199	219	242	158	210	239	265	167	221	261	288	175	233	282	312
17'-0"	λ _D D+λ _L L (Strength)	121	165	182	202	128	174	199	221	135	183	217	241	142	193	236	262
	D+L (Deflection)	121	165	182	202	128	174	199	221	135	183	217	241	142	193	236	262
	L (Deflection)	121	165	182	202	128	174	199	221	135	183	217	241	142	193	236	262
18'-0"	λ _D D+λ _L L (Strength)	97	136	150	168	103	144	190	185	108	152	207	203	114	159	224	221
	D+L (Deflection)	97	136	150	168	103	144	190	185	108	152	207	203	114	159	224	221
	L (Deflection)	97	136	150	168	103	144	190	185	108	152	200	203	114	159	222	221
19'-0"	λ _D D+λ _L L (Strength)	77	112	148	140	82	118	162	155	86	125	176	170	90	131	191	185
	D+L (Deflection)	77	112	133	140	82	118	154	155	86	125	176	170	90	131	191	185
	L (Deflection)	77	112	133	140	82	118	153	155	86	125	170	170	90	131	189	185
20'-0"	λ _D D+λ _L L (Strength)	60	91	125	116	63	96	137	128	67	102	150	167	70	107	163	182
	D+L (Deflection)	60	87	103	116	63	96	121	128	67	102	140	160	70	107	161	182
	L (Deflection)	60	87	103	116	63	96	121	128	67	102	140	159	70	107	161	176

MAXIMUM UNSHORED CONSTRUCTION CLEAR SPANS

1span	5'-6"	6'-4"	7'-6"	8'-7"	5'-6"	6'-3"	7'-4"	8'-5"	5'-5"	6'-2"	7'-3"	8'-4"	5'-4"	6'-1"	7'-2"	8'-3"
2span	6'-11"	7'-8"	9'-0"	10'-3"	6'-9"	7'-7"	8'-10"	10'-1"	6'-8"	7'-5"	8'-9"	9'-11"	6'-7"	7'-4"	8'-7"	9'-9"
3span	7'-1"	8'-0"	9'-4"	10'-7"	7'-0"	7'-10"	9'-2"	10'-5"	6'-11"	7'-8"	9'-0"	10'-3"	6'-9"	7'-7"	8'-10"	10'-1"
cantilever	2'-5"	2'-10"	3'-6"	4'-2"	2'-5"	2'-9"	3'-6"	4'-1"	2'-4"	2'-9"	3'-5"	4'-0"	2'-4"	2'-9"	3'-4"	4'-0"
cy/100sf	1.75				1.83				1.91				1.98			

8'-0"	λ _D D+λ _L L (Strength)	400	← Max. superimposed LRFD factored dead + live load (psf) (governed by strength limitation)
	D+L (Deflection)	400	← Max. superimposed LRFD unfactored dead + live load (psf) (governed by deflection limitation of L/240)
	L (Deflection)	400	← Max. superimposed LRFD unfactored live load (psf) (governed by deflection limitation of L/360)
			← Vertical load span (center to center spacing)

Wd Weight of deck (uncoated), psf

I_b Moment of inertia for deflection per foot of deck width (in⁴/ft)

S_p Section modulus for positive bending per foot of deck width, (in³/ft)

S_n Section modulus for negative bending per foot of deck width, (in³/ft)

f_c 3000 psi

λ_D, λ_L Load factors for dead and live loads to be applied by Engineer in accordance with Building Codes.

Rbe Allowable exterior web crippling value per foot of deck, plf

Rbi Allowable interior web crippling value per foot of deck, plf

h Total height of concrete slab, in

Wc Weight of concrete (neglecting deflection), psf

D Uniform dead load, psf

L Uniform live load, psf

If welded wire fabric is not supplied per ACI requirements (0.00075'Ac), reduce loads by 10%. The section property table is based on 2001 AISI's Cold-Formed Steel Design Manual, 2004 Supplement. The live loads and unshored construction clear spans are based on the Steel Deck Institute's Composite Deck Design Handbook, March 1997 and Design Manual, Pub. No. 30, and ASCE's Standard for the Structural Design of Composite Slabs. The loads in these tables are based on a Simple Span Design Analysis.

145 PCF NORMAL WEIGHT CONCRETE TABLE