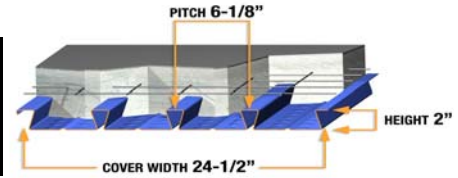


SECTION PROPERTIES

fy=40 ksi

GAGE	Wd	I _b	Sp	Sn	Rbe			Rbi		
					2"	3"	4"	4"	5"	6"
22	2.23	0.407	0.288	0.281	1089	1254	1393	2076	2239	2386
20	2.71	0.495	0.361	0.347	1550	1777	1969	2947	3170	3372
18	3.58	0.658	0.483	0.484	2583	2942	3245	4892	5245	5563
16	4.51	0.832	0.614	0.617	3937	4461	4902	7441	7952	8414



SIMPLE SPAN - MAXIMUM SUPERIMPOSED LRFD LOADS, (psf), NO STUDS ON BEAMS																	
h (Wc)		4" (44.39)				4.25" (47.41)				4.5" (50.43)				4.75" (53.45)			
Span	Load Combinations	GAGE															
		22	20	18	16	22	20	18	16	22	20	18	16	22	20	18	16
8' - 0"	λ _p D+λ _L L (Strength)	312	397	500	500	340	433	500	500	369	469	500	500	398	500	500	500
	D+L (Deflection)	312	397	400	400	340	400	400	400	369	400	400	400	398	400	400	400
	L (Deflection)	312	397	400	400	340	400	400	400	369	400	400	400	398	400	400	400
9' - 0"	λ _p D+λ _L L (Strength)	242	312	479	500	264	341	500	500	286	370	500	500	309	399	500	500
	D+L (Deflection)	242	312	400	400	264	341	400	400	286	370	400	400	309	399	400	400
	L (Deflection)	242	312	400	400	264	341	400	400	286	370	400	400	309	399	400	400
10' - 0"	λ _p D+λ _L L (Strength)	191	251	394	427	209	274	430	500	227	298	467	500	245	322	500	500
	D+L (Deflection)	191	251	394	400	209	274	400	400	227	298	400	400	245	322	400	400
	L (Deflection)	191	251	339	372	209	274	400	400	227	298	400	400	245	322	400	400
11' - 0"	λ _p D+λ _L L (Strength)	154	206	320	388	168	225	349	435	183	244	379	485	197	264	410	500
	D+L (Deflection)	154	206	320	370	168	225	349	400	183	244	379	400	197	264	400	400
	L (Deflection)	154	206	255	279	168	225	300	329	183	244	351	384	197	264	400	400
12' - 0"	λ _p D+λ _L L (Strength)	125	171	263	315	137	187	287	353	149	203	312	395	161	219	337	438
	D+L (Deflection)	125	171	246	274	137	187	287	328	149	203	312	389	161	219	337	400
	L (Deflection)	125	171	196	215	137	187	231	253	149	203	270	296	161	219	313	343
13' - 0"	λ _p D+λ _L L (Strength)	103	140	219	257	112	153	239	290	122	167	260	324	133	181	281	361
	D+L (Deflection)	103	140	184	205	112	153	222	247	122	167	260	294	133	181	281	346
	L (Deflection)	103	139	154	169	112	153	182	199	122	167	213	233	133	181	246	270
14' - 0"	λ _p D+λ _L L (Strength)	85	116	184	212	93	127	201	239	101	138	219	268	110	150	237	299
	D+L (Deflection)	85	116	137	154	93	127	167	187	101	138	201	224	110	150	237	266
	L (Deflection)	85	111	124	136	93	127	146	160	101	138	170	186	110	150	197	216
15' - 0"	λ _p D+λ _L L (Strength)	70	97	155	175	77	106	170	198	84	115	185	223	91	125	201	249
	D+L (Deflection)	70	88	103	116	77	106	127	143	84	115	154	172	91	125	184	205
	L (Deflection)	70	88	101	110	77	106	118	130	84	115	138	151	91	125	160	175
16' - 0"	λ _p D+λ _L L (Strength)	57	81	131	145	63	89	145	165	62	97	158	186	68	105	171	209
	D+L (Deflection)	57	65	76	87	63	82	95	108	62	97	117	132	68	105	141	159
	L (Deflection)	57	65	76	87	63	82	95	107	62	97	114	125	68	105	132	145
17' - 0"	λ _p D+λ _L L (Strength)	41	67	108	120	45	74	123	137	50	81	135	155	55	88	147	175
	D+L (Deflection)	40	46	56	65	45	60	71	82	50	75	89	101	55	88	108	123
	L (Deflection)	40	46	56	65	45	60	71	82	50	75	89	101	55	88	108	121
18' - 0"	λ _p D+λ _L L (Strength)	32	56	88	99	36	62	102	114	39	61	116	130	43	67	126	147
	D+L (Deflection)	27	31	39	47	36	42	52	61	39	55	66	76	43	67	82	94
	L (Deflection)	27	31	39	47	36	42	52	61	39	55	66	76	43	67	82	94
19' - 0"	λ _p D+λ _L L (Strength)	24	41	72	81	28	45	83	94	31	50	96	108	34	55	109	123
	D+L (Deflection)	16	20	26	32	24	29	36	44	31	39	48	57	34	51	61	71
	L (Deflection)	16	20	26	32	24	29	36	44	31	39	48	57	34	51	61	71
20' - 0"	λ _p D+λ _L L (Strength)	18	33	58	66	21	37	68	77	23	41	79	89	26	45	90	102
	D+L (Deflection)	7	10	16	21	13	17	24	30	21	26	33	41	26	35	44	53
	L (Deflection)	7	10	16	21	13	17	24	30	21	26	33	41	26	35	44	53

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

8' - 0"	λ _p D+λ _L L (Strength)	312	← Max. superimposed LRFD factored dead + live load (psf) (governed by strength limitation)
	D+L (Deflection)	312	← Max. superimposed LRFD unfactored dead + live load (psf) (governed by deflection limitation of L/240)
	L (Deflection)	312	← 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)

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

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

f'c 4000 psi

λ_p, λ_L Load factors for dead and live loads, respectively, 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

Construction spans shown based on 1.5" exterior bearing and 3" interior bearing width.

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,

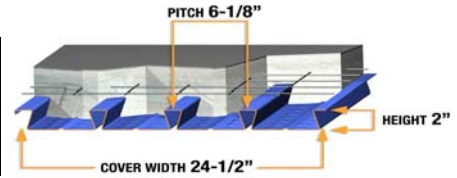
Pub. No. 30, and ASCE's Standard for the Structural Design of Composite Slabs. The loads in these tables are based on a Simple Span Design Analysis.

145 PCF CONCRETE

SECTION PROPERTIES

fy=40 ksi

GAGE	Wd	I _b	S _p	S _n	R _{be}			R _{bi}		
					2"	3"	4"	4"	5"	6"
22	2.23	0.407	0.288	0.281	1089	1254	1393	2076	2239	2386
20	2.71	0.495	0.361	0.347	1550	1777	1969	2947	3170	3372
18	3.58	0.658	0.483	0.484	2583	2942	3245	4892	5245	5563
16	4.51	0.832	0.614	0.617	3937	4461	4902	7441	7952	8414



SIMPLE SPAN - MAXIMUM SUPERIMPOSED LRFD LOADS, (psf), NO STUDS ON BEAMS																	
h (Wc)		5" (56.47)				5.25" (59.49)				5.5" (62.51)				5.75" (65.53)			
Span	Load Combinations	GAGE															
		22	20	18	16	22	20	18	16	22	20	18	16	22	20	18	16
8' - 0"	λ _p D+λ _L L (Strength)	427	500	500	500	457	500	500	500	487	500	500	500	500	500	500	500
	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 _p D+λ _L L (Strength)	332	429	500	500	355	459	500	500	378	489	500	500	402	500	500	500
	D+L (Deflection)	332	400	400	400	355	400	400	400	378	400	400	400	400	400	400	400
	L (Deflection)	332	400	400	400	355	400	400	400	378	400	400	400	400	400	400	400
10' - 0"	λ _p D+λ _L L (Strength)	263	346	500	500	282	370	500	500	300	395	500	500	319	419	500	500
	D+L (Deflection)	263	346	400	400	282	370	400	400	300	395	400	400	319	400	400	400
	L (Deflection)	263	346	400	400	282	370	400	400	300	395	400	400	319	400	400	400
11' - 0"	λ _p D+λ _L L (Strength)	212	284	441	500	227	304	472	500	243	324	500	500	258	345	500	500
	D+L (Deflection)	212	284	400	400	227	304	400	400	243	324	400	400	258	345	400	400
	L (Deflection)	212	284	400	400	227	304	400	400	243	324	400	400	258	345	400	400
12' - 0"	λ _p D+λ _L L (Strength)	173	236	363	484	186	253	389	500	198	270	415	500	211	287	442	500
	D+L (Deflection)	173	236	363	400	186	253	389	400	198	270	400	400	211	287	400	400
	L (Deflection)	173	236	361	394	186	253	389	400	198	270	400	400	211	287	400	400
13' - 0"	λ _p D+λ _L L (Strength)	143	195	303	399	153	209	324	439	164	223	346	482	174	237	369	500
	D+L (Deflection)	143	195	303	399	153	209	324	400	164	223	346	400	174	237	369	400
	L (Deflection)	143	195	284	310	153	209	324	354	164	223	346	400	174	237	369	400
14' - 0"	λ _p D+λ _L L (Strength)	119	162	255	332	127	173	273	366	136	185	292	401	145	197	311	439
	D+L (Deflection)	119	162	255	311	127	173	273	361	136	185	292	400	145	197	311	400
	L (Deflection)	119	162	227	248	127	173	260	283	136	185	292	322	145	197	311	363
15' - 0"	λ _p D+λ _L L (Strength)	99	135	216	277	98	145	232	306	105	155	248	337	112	165	264	369
	D+L (Deflection)	99	135	216	242	98	145	232	282	105	155	248	325	112	165	264	369
	L (Deflection)	99	135	185	202	98	145	211	230	105	155	240	262	112	165	264	295
16' - 0"	λ _p D+λ _L L (Strength)	74	113	185	232	80	122	198	257	85	130	212	284	91	139	226	311
	D+L (Deflection)	74	113	168	188	80	122	198	221	85	130	212	256	91	139	226	295
	L (Deflection)	74	113	152	166	80	122	174	190	85	130	198	216	91	139	223	243
17' - 0"	λ _p D+λ _L L (Strength)	59	88	158	195	64	95	170	217	69	101	182	240	74	108	194	264
	D+L (Deflection)	59	88	130	147	64	95	154	173	69	101	181	202	74	108	194	234
	L (Deflection)	59	88	127	139	64	95	145	158	69	101	165	180	74	108	186	203
18' - 0"	λ _p D+λ _L L (Strength)	47	73	136	164	51	78	147	183	56	84	157	203	60	90	167	224
	D+L (Deflection)	47	73	100	114	51	78	120	136	56	84	142	160	60	90	166	186
	L (Deflection)	47	73	100	114	51	78	120	133	56	84	139	151	60	90	157	171
19' - 0"	λ _p D+λ _L L (Strength)	37	60	118	138	41	65	127	155	44	70	136	172	47	75	136	190
	D+L (Deflection)	37	60	76	88	41	65	93	106	44	70	111	126	47	75	131	148
	L (Deflection)	37	60	76	88	41	65	93	106	44	70	111	126	47	75	131	145
20' - 0"	λ _p D+λ _L L (Strength)	29	49	94	116	31	53	102	130	34	57	109	145	37	62	117	161
	D+L (Deflection)	29	46	57	67	31	53	70	82	34	57	86	98	37	62	102	117
	L (Deflection)	29	46	57	67	31	53	70	82	34	57	86	98	37	62	102	117

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

8' - 0"	λ _p D+λ _L L (Strength)	427	← 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 4000 psi

R_{be} Allowable exterior web crippling value per foot of deck, plf
 R_{bi} 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

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

Construction spans shown based on 1.5" exterior bearing and 3" interior bearing width.

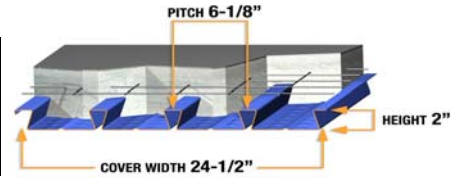
If welded wire fabric is not supplied per ACI requirements (0.00075*Ac), reduce loads by 10%. The section property table is based on 2001 AISI's Cold-Formed Steel Design Manual, 2004 Supplement. The live loads and unshored construction clear spans are based on the Steel Deck Institute's Composite Deck 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 CONCRETE

SECTION PROPERTIES

fy=40 ksi

GAGE	Wd	I _b	Sp	Sn	Rbe			Rbi		
					2"	3"	4"	4"	5"	6"
22	2.23	0.407	0.288	0.281	1089	1254	1393	2076	2239	2386
20	2.71	0.495	0.361	0.347	1550	1777	1969	2947	3170	3372
18	3.58	0.658	0.483	0.484	2583	2942	3245	4892	5245	5563
16	4.51	0.832	0.614	0.617	3937	4461	4902	7441	7952	8414



SIMPLE SPAN - MAXIMUM SUPERIMPOSED LRFD LOADS, (psf), NO STUDS ON BEAMS																	
h (Wc)		6" (68.55)				6.25" (71.58)				6.5" (74.6)				6.75" (77.62)			
Span	Load Combinations	GAGE															
		22	20	18	16	22	20	18	16	22	20	18	16	22	20	18	16
8' - 0"	λ _p D+λ _L L (Strength)	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	
	D+L (Deflection)	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	
9' - 0"	λ _p D+λ _L L (Strength)	425	500	500	500	449	500	500	500	473	500	500	500	497	500	500	
	D+L (Deflection)	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	
10' - 0"	λ _p D+λ _L L (Strength)	338	444	500	500	357	469	500	500	376	494	500	500	395	500	500	
	D+L (Deflection)	338	400	400	400	357	400	400	400	376	400	400	400	395	400	400	
	L (Deflection)	338	400	400	400	357	400	400	400	376	400	400	400	395	400	400	
11' - 0"	λ _p D+λ _L L (Strength)	273	365	500	500	289	386	500	500	304	407	500	500	320	427	500	
	D+L (Deflection)	273	365	400	400	289	386	400	400	304	400	400	400	320	400	400	
	L (Deflection)	273	365	400	400	289	386	400	400	304	400	400	400	320	400	400	
12' - 0"	λ _p D+λ _L L (Strength)	224	304	468	500	236	322	495	500	249	339	500	500	262	357	500	
	D+L (Deflection)	224	304	400	400	236	322	400	400	249	339	400	400	262	357	400	
	L (Deflection)	224	304	400	400	236	322	400	400	249	339	400	400	262	357	400	
13' - 0"	λ _p D+λ _L L (Strength)	185	251	391	500	196	266	413	500	206	280	436	500	217	295	459	
	D+L (Deflection)	185	251	391	400	196	266	400	400	206	280	400	400	217	295	400	
	L (Deflection)	185	251	391	400	196	266	400	400	206	280	400	400	217	295	400	
14' - 0"	λ _p D+λ _L L (Strength)	154	209	330	477	153	222	349	500	162	234	368	500	171	246	387	
	D+L (Deflection)	154	209	330	400	153	222	349	400	162	234	368	400	171	246	387	
	L (Deflection)	154	209	330	400	153	222	349	400	162	234	368	400	171	246	387	
15' - 0"	λ _p D+λ _L L (Strength)	119	175	280	402	127	186	296	434	134	196	313	458	141	196	329	
	D+L (Deflection)	119	175	280	400	127	186	296	400	134	196	313	400	141	196	329	
	L (Deflection)	119	175	280	332	127	186	296	371	134	196	313	400	141	196	329	
16' - 0"	λ _p D+λ _L L (Strength)	97	139	240	340	103	147	254	369	109	155	268	395	115	164	282	
	D+L (Deflection)	97	139	240	337	103	147	254	369	109	155	268	395	115	164	282	
	L (Deflection)	97	139	240	273	103	147	254	306	109	155	268	340	115	164	282	
17' - 0"	λ _p D+λ _L L (Strength)	79	116	206	288	84	123	218	314	89	130	231	341	94	137	243	
	D+L (Deflection)	79	116	206	269	84	123	218	306	89	130	231	341	94	137	243	
	L (Deflection)	79	116	206	228	84	123	218	255	89	130	231	284	94	137	243	
18' - 0"	λ _p D+λ _L L (Strength)	64	96	178	245	68	102	189	268	72	108	189	291	77	115	200	
	D+L (Deflection)	64	96	178	215	68	102	189	246	72	108	189	279	77	115	200	
	L (Deflection)	64	96	176	192	68	102	189	215	72	108	189	239	77	115	200	
19' - 0"	λ _p D+λ _L L (Strength)	51	80	145	209	54	85	154	229	58	90	163	249	61	96	172	
	D+L (Deflection)	51	80	145	172	54	85	154	198	58	90	163	226	61	96	172	
	L (Deflection)	51	80	145	163	54	85	154	183	58	90	163	203	61	96	172	
20' - 0"	λ _p D+λ _L L (Strength)	40	66	125	178	43	71	132	195	46	75	140	213	49	79	148	
	D+L (Deflection)	40	66	120	137	43	71	132	159	46	75	140	182	49	79	148	
	L (Deflection)	40	66	120	137	43	71	132	157	46	75	140	174	49	79	148	

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

8' - 0"	λ _p D+λ _L L (Strength)	500	← 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)

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

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

f'c 4000 psi

λ_p, λ_L Load factors for dead and live loads, respectively, 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

Construction spans shown based on 1.5" exterior bearing and 3" interior bearing width.

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.

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