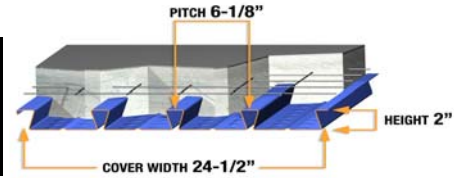


SECTION PROPERTIES

fy=40 ksi

GAGE	Wd	I <sub>b</sub>	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" (35.2)				4.25" (37.6)				4.5" (40)				4.75" (42.39)			
Span	Load Combinations	GAGE															
		22	20	18	16	22	20	18	16	22	20	18	16	22	20	18	16
8' - 0"	λ <sub>p</sub> D+λ <sub>L</sub> L (Strength)	307	416	500	500	335	424	500	500	364	460	500	500	393	496	500	500
	D+L (Deflection)	307	400	400	400	335	400	400	400	364	400	400	400	393	400	400	400
	L (Deflection)	307	400	400	400	335	400	400	400	364	400	400	400	393	400	400	400
9' - 0"	λ <sub>p</sub> D+λ <sub>L</sub> L (Strength)	239	307	463	500	261	335	489	500	284	364	500	500	306	393	500	500
	D+L (Deflection)	239	307	400	400	261	335	400	400	284	364	400	400	306	393	400	400
	L (Deflection)	239	307	378	400	261	335	400	400	284	364	400	400	306	393	400	400
10' - 0"	λ <sub>p</sub> D+λ <sub>L</sub> L (Strength)	190	248	384	460	208	271	419	487	226	294	456	500	244	318	493	500
	D+L (Deflection)	190	248	374	400	208	271	400	400	226	294	400	400	244	318	400	400
	L (Deflection)	190	246	276	303	208	271	324	357	226	294	378	400	244	318	400	400
11' - 0"	λ <sub>p</sub> D+λ <sub>L</sub> L (Strength)	154	204	312	342	169	223	341	481	183	242	371	500	198	262	401	500
	D+L (Deflection)	154	204	272	342	169	223	324	360	183	242	371	400	198	262	400	400
	L (Deflection)	154	185	207	228	169	218	244	268	183	242	284	312	198	262	329	362
12' - 0"	λ <sub>p</sub> D+λ <sub>L</sub> L (Strength)	127	170	258	364	138	186	282	399	151	202	307	434	163	219	332	470
	D+L (Deflection)	127	170	200	224	138	186	240	267	151	202	285	316	163	219	332	371
	L (Deflection)	127	142	159	176	138	168	188	206	151	196	219	241	163	219	254	278
13' - 0"	λ <sub>p</sub> D+λ <sub>L</sub> L (Strength)	105	141	215	303	115	154	236	336	125	168	256	365	135	182	277	395
	D+L (Deflection)	105	130	149	167	115	154	180	201	125	168	215	239	135	182	253	282
	L (Deflection)	104	112	125	138	115	132	148	162	125	154	172	189	135	179	199	219
14' - 0"	λ <sub>p</sub> D+λ <sub>L</sub> L (Strength)	88	117	182	255	96	129	199	285	105	140	217	310	114	152	235	336
	D+L (Deflection)	87	97	112	126	96	118	136	153	105	140	163	183	114	152	193	216
	L (Deflection)	83	90	100	111	96	106	118	130	105	123	138	152	114	143	160	175
15' - 0"	λ <sub>p</sub> D+λ <sub>L</sub> L (Strength)	73	99	154	216	81	108	169	243	88	118	184	266	95	128	200	288
	D+L (Deflection)	64	71	84	95	80	89	103	116	88	108	125	140	95	128	149	167
	L (Deflection)	64	71	82	90	80	86	96	106	88	100	112	123	95	116	130	143
16' - 0"	λ <sub>p</sub> D+λ <sub>L</sub> L (Strength)	61	83	132	183	67	91	145	206	73	100	158	230	80	108	171	249
	D+L (Deflection)	46	52	62	71	59	66	78	88	73	81	95	108	80	99	114	129
	L (Deflection)	46	52	62	71	59	66	78	87	73	81	92	102	80	96	107	117
17' - 0"	λ <sub>p</sub> D+λ <sub>L</sub> L (Strength)	51	70	114	155	56	78	125	175	61	85	136	197	61	92	148	217
	D+L (Deflection)	32	37	45	53	42	48	58	67	54	61	72	82	61	75	88	100
	L (Deflection)	32	37	45	53	42	48	58	67	54	61	72	82	61	75	88	98
18' - 0"	λ <sub>p</sub> D+λ <sub>L</sub> L (Strength)	42	60	98	132	42	66	108	150	46	72	118	168	50	79	128	189
	D+L (Deflection)	21	25	32	38	29	34	42	50	39	44	54	62	49	56	67	77
	L (Deflection)	21	25	32	38	29	34	42	50	39	44	54	62	49	56	67	77
19' - 0"	λ <sub>p</sub> D+λ <sub>L</sub> L (Strength)	30	51	85	112	34	56	94	128	37	61	103	144	41	61	112	162
	D+L (Deflection)	12	16	21	27	19	23	30	36	27	31	39	46	35	41	50	58
	L (Deflection)	12	16	21	27	19	23	30	36	27	31	39	46	35	41	50	58
20' - 0"	λ <sub>p</sub> D+λ <sub>L</sub> L (Strength)	24	38	74	96	27	42	82	109	30	47	89	124	33	51	97	139
	D+L (Deflection)	5	8	13	17	11	14	20	25	17	21	27	33	24	28	36	43
	L (Deflection)	5	8	13	17	11	14	20	25	17	21	27	33	24	28	36	43

MAXIMUM UNSHORED CONSTRUCTION CLEAR SPANS																
1span	7' - 0"	8' - 1"	9' - 7"	11' - 0"	6' - 10"	7' - 10"	9' - 4"	10' - 8"	6' - 8"	7' - 8"	9' - 1"	10' - 5"	6' - 6"	7' - 6"	8' - 11"	10' - 3"
2span	9' - 0"	9' - 11"	11' - 9"	13' - 2"	8' - 9"	9' - 9"	11' - 5"	12' - 10"	8' - 7"	9' - 6"	11' - 3"	12' - 7"	8' - 5"	9' - 4"	11' - 0"	12' - 4"
3span	9' - 3"	10' - 3"	12' - 1"	13' - 7"	9' - 1"	10' - 1"	11' - 10"	13' - 4"	8' - 11"	9' - 10"	11' - 7"	13' - 0"	8' - 9"	9' - 8"	11' - 4"	12' - 9"
cantilever	2' - 11"	3' - 6"	4' - 5"	5' - 3"	2' - 11"	3' - 5"	4' - 4"	5' - 1"	2' - 10"	3' - 4"	4' - 3"	5' - 0"	2' - 10"	3' - 4"	4' - 2"	4' - 11"
cy/100sf	1.13			1.21				1.29				1.37				

8' - 0"	λ <sub>p</sub> D+λ <sub>L</sub> L (Strength)	307	← Max. superimposed LRFD factored dead + live load (psf) (governed by strength limitation)
	D+L (Deflection)	307	← Max. superimposed LRFD unfactored dead + live load (psf) (governed by deflection limitation of L/240)
	L (Deflection)	307	← 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<sub>b</sub> Moment of inertia for deflection per foot of deck width (in<sup>4</sup>/ft)
- Sp Section modulus for positive bending per foot of deck width, (in<sup>3</sup>/ft)
- Sn Section modulus for negative bending per foot of deck width, (in<sup>3</sup>/ft)
- f'c 4000 psi
- λ<sub>p</sub>, λ<sub>L</sub> 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

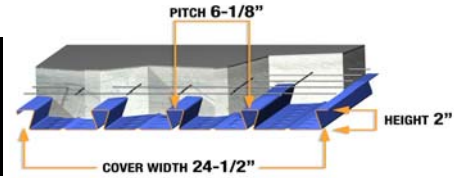
Construction spans shown based on 1.5" exterior bearing and 3" interior bearing width.  
If welded wire fabric is not supplied per ACI requirements (0.00075\*Ac), reduce loads by 10%. The section property table is based on 2001 AISI's Cold-Formed Steel Design Manual, 2004 Supplement. The live loads and 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.

115 PCF CONCRETE

SECTION PROPERTIES

fy=40 ksi

GAGE	Wd	I <sub>b</sub>	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)		5" (44.79)				5.25" (47.18)				5.5" (49.58)				5.75" (51.97)			
Span	Load Combinations	GAGE															
		22	20	18	16	22	20	18	16	22	20	18	16	22	20	18	16
8' - 0"	λ <sub>p</sub> D+λ <sub>L</sub> L (Strength)	422	500	500	500	451	500	500	500	481	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 <sub>p</sub> D+λ <sub>L</sub> L (Strength)	329	422	500	500	352	452	500	500	376	482	500	500	400	500	500	500
	D+L (Deflection)	329	400	400	400	352	400	400	400	376	400	400	400	400	400	400	400
	L (Deflection)	329	400	400	400	352	400	400	400	376	400	400	400	400	400	400	400
10' - 0"	λ <sub>p</sub> D+λ <sub>L</sub> L (Strength)	263	342	500	500	281	366	500	500	300	391	500	500	319	416	500	500
	D+L (Deflection)	263	342	400	400	281	366	400	400	300	391	400	400	319	400	400	400
	L (Deflection)	263	342	400	400	281	366	400	400	300	391	400	400	319	400	400	400
11' - 0"	λ <sub>p</sub> D+λ <sub>L</sub> L (Strength)	213	282	432	500	229	302	463	500	244	322	494	500	260	343	500	500
	D+L (Deflection)	213	282	400	400	229	302	400	400	244	322	400	400	260	343	400	400
	L (Deflection)	213	282	378	400	229	302	400	400	244	322	400	400	260	343	400	400
12' - 0"	λ <sub>p</sub> D+λ <sub>L</sub> L (Strength)	176	236	357	500	188	253	383	500	201	270	409	500	214	287	435	500
	D+L (Deflection)	176	236	357	400	188	253	383	400	201	270	400	400	214	287	400	400
	L (Deflection)	176	236	291	320	188	253	333	365	201	270	378	400	214	287	400	400
13' - 0"	λ <sub>p</sub> D+λ <sub>L</sub> L (Strength)	146	196	299	426	157	210	321	457	167	224	343	489	178	239	365	500
	D+L (Deflection)	146	196	295	328	157	210	321	379	167	224	343	400	178	239	365	400
	L (Deflection)	146	196	229	252	157	210	262	287	167	224	297	326	178	239	335	368
14' - 0"	λ <sub>p</sub> D+λ <sub>L</sub> L (Strength)	122	164	253	362	131	176	271	389	141	188	290	416	150	200	309	443
	D+L (Deflection)	122	164	227	253	131	176	264	293	141	188	290	337	150	200	309	385
	L (Deflection)	122	164	184	202	131	176	210	230	141	188	238	261	150	200	269	295
15' - 0"	λ <sub>p</sub> D+λ <sub>L</sub> L (Strength)	103	138	216	311	111	148	231	334	119	159	247	357	126	169	264	380
	D+L (Deflection)	103	138	175	196	111	148	205	229	119	159	237	264	126	169	264	303
	L (Deflection)	103	134	149	164	111	148	170	187	119	159	193	212	126	169	218	239
16' - 0"	λ <sub>p</sub> D+λ <sub>L</sub> L (Strength)	86	117	185	269	93	126	199	289	99	135	213	309	99	144	227	329
	D+L (Deflection)	86	117	136	153	93	126	160	179	99	135	186	208	99	144	214	239
	L (Deflection)	86	110	123	135	93	126	140	154	99	135	159	175	99	144	180	197
17' - 0"	λ <sub>p</sub> D+λ <sub>L</sub> L (Strength)	66	100	160	234	72	107	172	251	77	115	184	269	82	123	196	287
	D+L (Deflection)	66	90	105	119	72	107	125	141	77	115	146	164	82	123	169	190
	L (Deflection)	66	90	103	113	72	105	117	128	77	115	133	146	82	123	150	165
18' - 0"	λ <sub>p</sub> D+λ <sub>L</sub> L (Strength)	55	85	139	205	59	92	149	220	64	91	160	235	68	98	170	251
	D+L (Deflection)	55	69	81	93	59	83	97	111	64	91	115	130	68	98	134	151
	L (Deflection)	55	69	81	93	59	83	97	108	64	91	112	123	68	98	126	139
19' - 0"	λ <sub>p</sub> D+λ <sub>L</sub> L (Strength)	45	66	121	180	49	72	130	193	53	77	139	207	56	83	149	221
	D+L (Deflection)	45	51	62	72	49	63	75	86	53	76	90	102	56	83	106	120
	L (Deflection)	45	51	62	72	49	63	75	86	53	76	90	102	56	83	106	118
20' - 0"	λ <sub>p</sub> D+λ <sub>L</sub> L (Strength)	36	56	105	156	40	61	113	171	43	65	122	183	46	70	130	195
	D+L (Deflection)	32	37	46	54	40	47	57	67	43	58	69	80	46	69	83	95
	L (Deflection)	32	37	46	54	40	47	57	67	43	58	69	80	46	69	83	95

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' - 1"	8' - 4"	9' - 7"	6' - 1"	6' - 11"	8' - 2"	9' - 5"
2span	8' - 3"	9' - 2"	10' - 10"	12' - 2"	8' - 1"	9' - 0"	10' - 7"	11' - 11"	8' - 0"	8' - 10"	10' - 5"	11' - 9"	7' - 10"	8' - 8"	10' - 3"	11' - 6"
3span	8' - 7"	9' - 6"	11' - 2"	12' - 7"	8' - 5"	9' - 4"	10' - 11"	12' - 4"	8' - 3"	9' - 2"	10' - 9"	12' - 1"	8' - 1"	9' - 0"	10' - 7"	11' - 11"
cantilever	2' - 9"	3' - 3"	4' - 2"	4' - 10"	2' - 9"	3' - 3"	4' - 1"	4' - 9"	2' - 9"	3' - 2"	4' - 0"	4' - 9"	2' - 8"	3' - 2"	3' - 11"	4' - 8"
cy/100sf	1.44				1.52				1.60				1.67			

8' - 0"	λ <sub>p</sub> D+λ <sub>L</sub> L (Strength)	422	← 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<sub>b</sub> Moment of inertia for deflection per foot of deck width (in<sup>4</sup>/ft)
- Sp Section modulus for positive bending per foot of deck width, (in<sup>3</sup>/ft)
- Sn Section modulus for negative bending per foot of deck width, (in<sup>3</sup>/ft)
- f'c 4000 psi
- λ<sub>p</sub>, λ<sub>L</sub> 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.

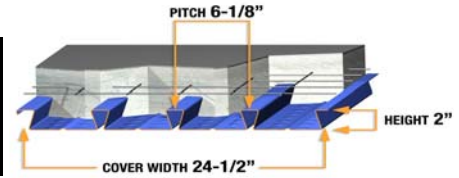
If welded wire fabric is not supplied per ACI requirements (0.00075\*Ac), reduce loads by 10%. The section property table is based on 2001 AISI's Cold-Formed Steel Design Manual, 2004 Supplement. The live loads and unshored construction clear spans are based on the Steel Deck Institute's Composite Deck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

# 115 PCF CONCRETE

SECTION PROPERTIES

fy=40 ksi

GAGE	Wd	I <sub>b</sub>	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" (54.37)				6.25" (56.77)				6.5" (59.16)				6.75" (61.56)			
Span	Load Combinations	GAGE															
		22	20	18	16	22	20	18	16	22	20	18	16	22	20	18	16
8' - 0"	λ <sub>p</sub> D+λ <sub>L</sub> L (Strength)	500	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	400
	L (Deflection)	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
9' - 0"	λ <sub>p</sub> D+λ <sub>L</sub> L (Strength)	423	500	500	500	447	500	500	500	471	500	500	500	495	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
10' - 0"	λ <sub>p</sub> D+λ <sub>L</sub> L (Strength)	338	441	500	500	358	466	500	500	377	491	500	500	396	500	500	500
	D+L (Deflection)	338	400	400	400	358	400	400	400	377	400	400	400	396	400	400	400
	L (Deflection)	338	400	400	400	358	400	400	400	377	400	400	400	396	400	400	400
11' - 0"	λ <sub>p</sub> D+λ <sub>L</sub> L (Strength)	275	364	500	500	291	384	500	500	307	405	500	500	323	426	500	500
	D+L (Deflection)	275	364	400	400	291	384	400	400	307	400	400	400	323	400	400	400
	L (Deflection)	275	364	400	400	291	384	400	400	307	400	400	400	323	400	400	400
12' - 0"	λ <sub>p</sub> D+λ <sub>L</sub> L (Strength)	227	305	462	500	240	322	489	500	253	340	500	500	266	357	500	500
	D+L (Deflection)	227	305	400	400	240	322	400	400	253	340	400	400	266	357	400	400
	L (Deflection)	227	305	400	400	240	322	400	400	253	340	400	400	266	357	400	400
13' - 0"	λ <sub>p</sub> D+λ <sub>L</sub> L (Strength)	189	253	387	500	200	268	410	500	211	283	432	500	222	297	455	500
	D+L (Deflection)	189	253	387	400	200	268	400	400	211	283	400	400	222	297	400	400
	L (Deflection)	189	253	377	400	200	268	400	400	211	283	400	400	222	297	400	400
14' - 0"	λ <sub>p</sub> D+λ <sub>L</sub> L (Strength)	159	212	328	470	168	225	347	498	178	237	366	500	187	250	386	500
	D+L (Deflection)	159	212	328	400	168	225	347	400	178	237	366	400	187	250	386	400
	L (Deflection)	159	212	302	331	168	225	337	370	178	237	366	400	187	250	386	400
15' - 0"	λ <sub>p</sub> D+λ <sub>L</sub> L (Strength)	134	180	280	404	142	190	296	428	150	201	313	452	150	211	330	476
	D+L (Deflection)	134	180	280	344	142	190	296	389	150	201	313	400	150	211	330	400
	L (Deflection)	134	180	245	269	142	190	274	300	150	201	305	334	150	211	330	370
16' - 0"	λ <sub>p</sub> D+λ <sub>L</sub> L (Strength)	106	153	241	350	112	162	255	370	118	171	269	391	125	180	284	412
	D+L (Deflection)	106	153	241	273	112	162	255	310	118	171	269	349	125	180	284	392
	L (Deflection)	106	153	202	222	112	162	226	248	118	171	251	275	125	180	279	305
17' - 0"	λ <sub>p</sub> D+λ <sub>L</sub> L (Strength)	88	130	208	305	93	130	221	323	99	138	233	341	104	146	246	359
	D+L (Deflection)	88	130	195	218	93	130	221	248	99	138	233	281	104	146	246	316
	L (Deflection)	88	130	168	185	93	130	188	206	99	138	210	230	104	146	232	254
18' - 0"	λ <sub>p</sub> D+λ <sub>L</sub> L (Strength)	73	104	181	267	78	111	192	283	82	117	203	299	87	124	214	315
	D+L (Deflection)	73	104	155	174	78	111	178	199	82	117	202	226	87	124	214	255
	L (Deflection)	73	104	142	156	78	111	159	174	82	117	177	193	87	124	196	214
19' - 0"	λ <sub>p</sub> D+λ <sub>L</sub> L (Strength)	60	88	158	235	64	94	168	249	68	100	177	264	72	105	187	278
	D+L (Deflection)	60	88	123	139	64	94	142	160	68	100	162	183	72	105	184	207
	L (Deflection)	60	88	121	132	64	94	135	148	68	100	150	164	72	105	166	182
20' - 0"	λ <sub>p</sub> D+λ <sub>L</sub> L (Strength)	50	75	138	208	53	80	139	220	56	85	147	233	60	90	156	246
	D+L (Deflection)	50	75	97	111	53	80	113	129	56	85	130	148	60	90	149	168
	L (Deflection)	50	75	97	111	53	80	113	127	56	85	129	141	60	90	143	156

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

8' - 0"	λ <sub>p</sub> D+λ <sub>L</sub> 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<sub>b</sub> Moment of inertia for deflection per foot of deck width (in<sup>4</sup>/ft)

Sp Section modulus for positive bending per foot of deck width, (in<sup>3</sup>/ft)

Sn Section modulus for negative bending per foot of deck width, (in<sup>3</sup>/ft)

f'c 4000 psi

λ<sub>p</sub>, λ<sub>L</sub> 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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