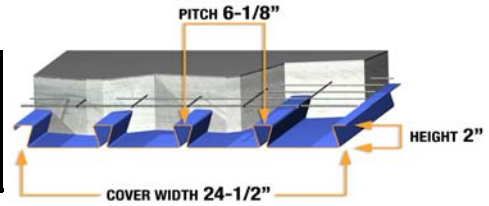


SECTION PROPERTIES

fy=40 ksi

GAGE	Wd	I _D	Sp	Sn	Rbe			Rbi		
					2"	3"	4"	4"	5"	6"
22	2.22	0.409	0.289	0.268	949	1093	1214	1861	2006	2138
20	2.69	0.497	0.363	0.337	1351	1549	1716	2641	2842	3023
18	3.56	0.661	0.485	0.462	2251	2564	2827	4385	4701	4986
16	4.48	0.836	0.617	0.598	3431	3887	4271	6670	7128	7542



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

h (Wc)	4 (33.7)	4.25 (36.0)				4.5 (38.3)				4.75 (40.5)							
		GAGE															
Span	Load	22	20	18	16	22	20	18	16	22	20	18	16	22	20	18	16
8'-0"	D+L (Strength)	306	263	369	398	330	346	399	400	355	371	400	400	379	397	400	400
	D+L (Deflection)	306	263	369	398	330	346	399	400	355	371	400	400	379	397	400	400
	L (Deflection)	306	263	369	398	330	346	399	400	355	371	400	400	379	397	400	400
9'-0"	D+L (Strength)	269	282	271	354	291	305	284	382	312	327	295	400	334	350	379	400
	D+L (Deflection)	269	282	271	354	291	305	284	382	312	327	295	400	334	350	379	400
	L (Deflection)	269	282	271	354	291	305	284	382	312	327	295	400	334	350	379	400
10'-0"	D+L (Strength)	232	249	272	269	252	272	294	282	273	292	317	294	294	312	339	304
	D+L (Deflection)	232	249	272	269	252	272	294	282	273	292	317	294	294	312	339	304
	L (Deflection)	200	217	243	269	236	255	286	282	273	292	317	294	294	312	339	304
11'-0"	D+L (Strength)	184	198	218	236	202	222	245	264	219	248	273	294	235	275	302	325
	D+L (Deflection)	184	198	218	236	202	222	245	264	219	248	273	294	235	275	302	325
	L (Deflection)	151	163	183	202	177	192	215	237	207	224	251	276	235	259	290	319
12'-0"	D+L (Strength)	148	159	176	190	164	179	198	213	177	200	221	238	191	222	245	264
	D+L (Deflection)	138	152	174	190	164	179	198	213	177	200	221	238	191	222	245	264
	L (Deflection)	116	125	141	155	137	148	166	183	160	172	193	213	185	199	223	246
13'-0"	D+L (Strength)	119	129	143	155	134	145	161	174	145	163	180	195	156	182	201	217
	D+L (Deflection)	101	112	129	145	123	135	156	174	145	162	180	195	156	182	201	217
	L (Deflection)	91	99	111	122	108	116	130	144	126	135	152	167	145	157	176	193
14'-0"	D+L (Strength)	96	105	117	127	109	119	132	143	120	133	148	161	129	149	166	179
	D+L (Deflection)	74	82	96	109	91	101	117	132	110	122	140	158	129	145	166	179
	L (Deflection)	73	79	89	98	86	93	104	115	101	108	122	134	116	126	141	155
15'-0"	D+L (Strength)	78	85	96	105	89	97	109	118	99	110	122	133	107	123	137	149
	D+L (Deflection)	53	60	71	81	67	75	88	100	82	91	106	120	99	110	127	144
	L (Deflection)	53	60	71	80	67	75	85	93	82	88	99	109	95	102	114	126
16'-0"	D+L (Strength)	63	70	79	86	73	79	90	98	82	90	101	111	89	101	114	124
	D+L (Deflection)	37	43	52	60	48	55	65	75	60	68	80	92	74	83	97	110
	L (Deflection)	37	43	52	60	48	55	65	75	60	68	80	90	74	83	94	104
17'-0"	D+L (Strength)	51	56	64	71	59	65	74	81	52	74	84	92	56	84	95	104
	D+L (Deflection)	25	30	37	44	34	39	48	56	44	50	60	69	55	62	74	85
	L (Deflection)	25	30	37	44	34	39	48	56	44	50	60	69	55	62	74	85
18'-0"	D+L (Strength)	34	45	52	58	38	53	60	67	41	60	69	76	45	69	78	86
	D+L (Deflection)	16	19	25	31	23	27	34	41	30	36	44	52	39	45	55	64
	L (Deflection)	16	19	25	31	23	27	34	41	30	36	44	52	39	45	55	64
19'-0"	D+L (Strength)	27	36	42	47	29	42	49	55	32	47	57	63	35	51	65	72
	D+L (Deflection)	8	11	16	21	13	17	23	28	20	24	31	38	27	32	40	48
	L (Deflection)	8	11	16	21	13	17	23	28	20	24	31	38	27	32	40	48
20'-0"	D+L (Strength)	20	31	34	38	22	34	40	44	25	38	46	52	27	41	53	59
	D+L (Deflection)	2	4	8	12	6	9	14	19	11	15	21	26	17	21	28	35
	L (Deflection)	2	4	8	12	6	9	14	19	11	15	21	26	17	21	28	35

MAXIMUM UNSHORED CONSTRUCTION CLEAR SPANS

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

8'-0"	D+L (Strength)	306	← Max. superimposed ASD dead + live load (psf) (governed by strength limitation)
	D+L (Deflection)	306	← Max. superimposed ASD dead + live load (psf) (governed by deflection limitation of L/240)
	L (Deflection)	306	← Max. superimposed ASD live load (psf) (governed by deflection limitation of L/360)
			← Vertical load span (center to center spacing)

- Wd Weight of deck (uncoated), psf
- I_D 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)
- 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
- f'c 3000 psi
- D Uniform dead load, psf
- L Uniform live load, psf

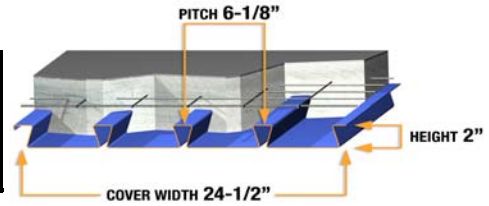
If welded wire fabric is not supplied per ACI requirements (0.00075*Ac), reduce loads by 10%. The section property table is based on 2001 AISI's Cold-Formed Steel Design Manual, 2004 Supplement. The live loads and unshored construction clear spans are based on the Steel Deck Institute's Composite Deck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

110 PCF LIGHTWEIGHT CONCRETE TABLE

SECTION PROPERTIES

fy=40 ksi

GAGE	Wd	I _b	Sp	Sn	Rbe			Rbi		
					2"	3"	4"	4"	5"	6"
22	2.22	0.409	0.289	0.268	949	1093	1214	1861	2006	2138
20	2.69	0.497	0.363	0.337	1351	1549	1716	2641	2842	3023
18	3.56	0.661	0.485	0.462	2251	2564	2827	4385	4701	4986
16	4.48	0.836	0.617	0.598	3431	3887	4271	6670	7128	7542



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

h (Wc)	5 (42.8)	5.25 (45.1)				5.5 (47.4)				5.75 (49.7)							
		GAGE															
Span	Load	22	20	18	16	22	20	18	16	22	20	18	16	22	20	18	16
8'-0"	D+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"	D+L (Strength)	356	373	400	400	378	396	400	400	399	400	400	400	400	400	400	400
	D+L (Deflection)	356	373	400	400	378	396	400	400	399	400	400	400	400	400	400	400
	L (Deflection)	356	373	400	400	378	396	400	400	399	400	400	400	400	400	400	400
10'-0"	D+L (Strength)	315	333	361	391	335	353	383	400	356	374	400	400	376	394	400	400
	D+L (Deflection)	315	333	361	391	335	353	383	400	356	374	400	400	376	394	400	400
	L (Deflection)	315	333	361	391	335	353	383	400	356	374	400	400	376	394	400	400
11'-0"	D+L (Strength)	252	300	326	353	269	318	346	374	286	337	366	396	302	355	386	400
	D+L (Deflection)	252	300	326	353	269	318	346	374	286	337	366	396	302	355	386	400
	L (Deflection)	252	298	326	353	269	318	346	374	286	337	366	396	302	355	386	400
12'-0"	D+L (Strength)	205	246	271	292	218	267	299	322	232	285	327	352	246	302	351	381
	D+L (Deflection)	205	246	271	292	218	267	299	322	232	285	327	352	246	302	351	381
	L (Deflection)	205	229	257	282	218	262	293	322	232	285	327	352	246	302	351	381
13'-0"	D+L (Strength)	168	201	223	240	179	221	245	265	190	235	269	291	202	249	294	318
	D+L (Deflection)	168	201	223	240	179	221	245	265	190	235	269	291	202	249	294	318
	L (Deflection)	167	180	202	222	179	206	230	253	190	234	261	287	202	249	294	318
14'-0"	D+L (Strength)	138	166	184	199	148	183	203	220	157	196	223	242	167	208	245	265
	D+L (Deflection)	138	166	184	199	148	183	203	220	157	196	223	242	167	208	245	265
	L (Deflection)	134	144	162	178	148	165	184	203	157	187	209	230	167	208	236	259
15'-0"	D+L (Strength)	115	137	153	166	123	152	169	184	131	164	186	202	139	174	205	222
	D+L (Deflection)	115	131	151	166	123	152	169	184	131	164	186	202	139	174	205	222
	L (Deflection)	109	117	131	144	123	134	150	165	131	152	170	187	139	172	192	211
16'-0"	D+L (Strength)	95	114	127	139	81	126	141	154	86	138	156	170	92	147	172	187
	D+L (Deflection)	90	100	116	131	81	118	137	154	86	138	156	170	92	147	172	187
	L (Deflection)	90	97	108	119	81	110	124	136	86	125	140	154	92	142	158	174
17'-0"	D+L (Strength)	61	94	106	116	65	105	118	129	70	117	131	143	74	124	144	158
	D+L (Deflection)	61	75	89	101	65	90	106	120	70	107	124	141	74	124	144	158
	L (Deflection)	61	75	89	99	65	90	103	113	70	105	117	128	74	118	132	145
18'-0"	D+L (Strength)	49	78	88	97	52	72	99	109	56	78	110	121	60	83	122	133
	D+L (Deflection)	49	56	68	78	52	69	81	93	56	78	97	110	60	83	113	129
	L (Deflection)	49	56	68	78	52	69	81	93	56	78	97	108	60	83	111	122
19'-0"	D+L (Strength)	38	55	73	81	41	59	83	91	44	64	92	102	48	68	102	113
	D+L (Deflection)	35	41	51	59	41	51	62	72	44	62	75	86	48	68	88	101
	L (Deflection)	35	41	51	59	41	51	62	72	44	62	75	86	48	68	88	101
20'-0"	D+L (Strength)	30	45	61	67	32	48	69	76	35	52	77	85	37	55	86	95
	D+L (Deflection)	24	29	37	44	31	37	46	55	35	46	57	66	37	55	68	79
	L (Deflection)	24	29	37	44	31	37	46	55	35	46	57	66	37	55	68	79

MAXIMUM UNSHORED CONSTRUCTION CLEAR SPANS

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

8'-0"	D+L (Strength)	400	← Max. superimposed ASD dead + live load (psf) (governed by strength limitation)
	D+L (Deflection)	400	← Max. superimposed ASD dead + live load (psf) (governed by deflection limitation of L/240)
	L (Deflection)	400	← Max. superimposed ASD 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)
- 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
- f'c 3000 psi
- D Uniform dead load, psf
- L Uniform live load, psf

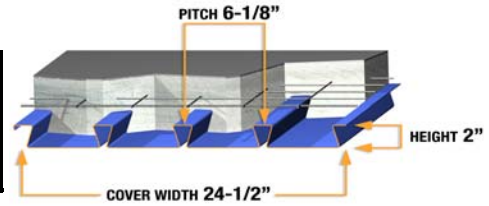
If welded wire fabric is not supplied per ACI requirements (0.00075*Ac), reduce loads by 10%. The section property table is based on 2001 AISI's Cold-Formed Steel Design Manual, 2004 Supplement. The live loads and unshored construction clear spans are based on the Steel Deck Institute's Composite Deck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

110 PCF LIGHTWEIGHT CONCRETE TABLE

SECTION PROPERTIES

fy=40 ksi

GAGE	Wd	I _b	Sp	Sn	Rbe			Rbi		
					2"	3"	4"	4"	5"	6"
22	2.22	0.409	0.289	0.268	949	1093	1214	1861	2006	2138
20	2.69	0.497	0.363	0.337	1351	1549	1716	2641	2842	3023
18	3.56	0.661	0.485	0.462	2251	2564	2827	4385	4701	4986
16	4.48	0.836	0.617	0.598	3431	3887	4271	6670	7128	7542



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

h (Wc)		6 (52.0)				6.25 (54.3)				6.5 (56.6)				6.75 (58.9)			
Span	Load	GAGE															
		22				20				18				16			
8'-0"	D+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"	D+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"	D+L (Strength)	395	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
	D+L (Deflection)	395	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
	L (Deflection)	395	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
11'-0"	D+L (Strength)	319	374	400	400	336	392	400	400	353	400	400	400	369	400	400	400
	D+L (Deflection)	319	374	400	400	336	392	400	400	353	400	400	400	369	400	400	400
	L (Deflection)	319	374	400	400	336	392	400	400	353	400	400	400	369	400	400	400
12'-0"	D+L (Strength)	260	319	369	400	273	336	387	400	287	353	400	400	301	370	400	400
	D+L (Deflection)	260	319	369	400	273	336	387	400	287	353	400	400	301	370	400	400
	L (Deflection)	260	319	369	400	273	336	387	400	287	353	400	400	301	370	400	400
13'-0"	D+L (Strength)	213	263	320	346	224	278	347	375	236	292	372	400	247	306	389	400
	D+L (Deflection)	213	263	320	346	224	278	347	375	236	292	372	400	247	306	389	400
	L (Deflection)	213	263	320	346	224	278	347	375	236	292	372	400	247	306	389	400
14'-0"	D+L (Strength)	176	220	267	288	186	232	290	313	195	244	313	339	205	256	338	366
	D+L (Deflection)	176	220	267	288	186	232	290	313	195	244	313	339	205	256	338	366
	L (Deflection)	176	220	267	288	186	232	290	313	195	244	313	339	205	256	338	366
15'-0"	D+L (Strength)	147	184	223	242	127	194	243	263	133	205	263	285	140	215	284	308
	D+L (Deflection)	147	184	223	242	127	194	243	263	133	205	263	285	140	215	284	308
	L (Deflection)	147	184	216	237	127	194	241	263	133	205	263	285	140	215	284	308
16'-0"	D+L (Strength)	97	155	188	204	103	164	205	223	109	173	222	242	114	181	240	261
	D+L (Deflection)	97	155	188	204	103	164	205	223	109	173	222	242	114	181	240	261
	L (Deflection)	97	155	178	195	103	164	199	218	109	173	221	242	114	181	240	261
17'-0"	D+L (Strength)	79	106	159	173	84	113	173	189	88	119	188	205	93	125	204	222
	D+L (Deflection)	79	106	159	173	84	113	173	189	88	119	188	205	93	125	204	222
	L (Deflection)	79	106	148	163	84	113	165	182	88	119	184	202	93	125	204	222
18'-0"	D+L (Strength)	64	88	134	147	67	93	147	160	71	98	160	175	75	104	174	190
	D+L (Deflection)	64	88	131	147	67	93	147	160	71	98	160	175	75	104	174	190
	L (Deflection)	64	88	125	137	67	93	139	153	71	98	155	170	75	104	172	189
19'-0"	D+L (Strength)	51	72	113	124	54	77	124	136	57	81	136	149	60	85	131	162
	D+L (Deflection)	51	72	103	118	54	77	120	136	57	81	136	149	60	85	131	162
	L (Deflection)	51	72	103	117	54	77	119	130	57	81	132	145	60	85	131	160
20'-0"	D+L (Strength)	39	59	93	105	42	63	99	116	44	66	105	127	47	70	111	139
	D+L (Deflection)	39	59	81	93	42	63	95	109	44	66	105	125	47	70	111	139
	L (Deflection)	39	59	81	93	42	63	95	109	44	66	105	124	47	70	111	138

MAXIMUM UNSHORED CONSTRUCTION CLEAR SPANS

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

8'-0"	D+L (Strength)	400	← Max. superimposed ASD dead + live load (psf) (governed by strength limitation)
	D+L (Deflection)	400	← Max. superimposed ASD dead + live load (psf) (governed by deflection limitation of L/240)
	L (Deflection)	400	← Max. superimposed ASD 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)
- 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
- f'c 3000 psi
- 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.

110 PCF LIGHTWEIGHT CONCRETE TABLE