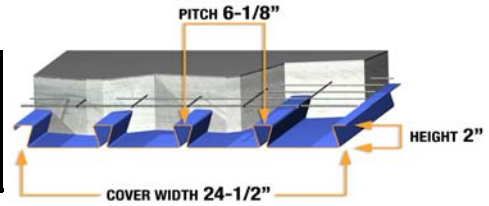


SECTION PROPERTIES

fy=40 ksi

GAGE	Wd	I <sub>D</sub>	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 (35.2)				4.25 (37.6)				4.5 (40.0)				4.75 (42.4)			
Span	Load	GAGE															
		22	20	18	16	22	20	18	16	22	20	18	16	22	20	18	16
8'-0"	D+L (Strength)	305	320	370	399	330	345	400	400	354	371	400	400	379	397	400	400
	D+L (Deflection)	305	320	370	399	330	345	400	400	354	371	400	400	379	397	400	400
	L (Deflection)	305	320	370	399	330	345	400	400	354	371	400	400	379	397	400	400
9'-0"	D+L (Strength)	269	281	266	355	290	304	278	383	312	327	354	400	334	350	379	400
	D+L (Deflection)	269	281	266	355	290	304	278	383	312	327	354	400	334	350	379	400
	L (Deflection)	269	281	266	355	290	304	278	383	312	327	354	400	334	350	379	400
10'-0"	D+L (Strength)	224	241	266	265	251	270	294	277	271	292	316	287	292	312	338	296
	D+L (Deflection)	224	241	266	265	251	270	294	277	271	292	316	287	292	312	338	296
	L (Deflection)	209	225	253	265	246	265	294	277	271	292	316	287	292	312	338	296
11'-0"	D+L (Strength)	177	191	211	228	199	214	237	256	217	239	264	285	234	266	293	316
	D+L (Deflection)	177	191	211	228	199	214	237	256	217	239	264	285	234	266	293	316
	L (Deflection)	157	169	190	210	185	199	224	246	216	233	261	285	234	266	293	316
12'-0"	D+L (Strength)	142	153	170	184	160	172	191	206	176	193	213	231	189	215	237	256
	D+L (Deflection)	142	153	170	184	160	172	191	206	176	193	213	231	189	215	237	256
	L (Deflection)	121	130	146	162	142	154	172	190	166	179	201	221	189	208	232	256
13'-0"	D+L (Strength)	114	123	137	149	129	139	155	168	143	156	174	188	155	174	194	210
	D+L (Deflection)	105	116	134	149	128	139	155	168	143	156	174	188	155	174	194	210
	L (Deflection)	95	103	115	127	112	121	135	149	131	141	158	174	152	163	183	201
14'-0"	D+L (Strength)	92	100	112	122	104	113	127	138	117	127	142	155	127	143	159	173
	D+L (Deflection)	77	85	100	113	95	105	121	137	115	127	142	155	127	143	159	173
	L (Deflection)	76	82	92	102	90	97	108	119	105	113	126	139	121	131	146	161
15'-0"	D+L (Strength)	74	81	91	100	84	92	104	113	95	104	117	128	105	117	131	143
	D+L (Deflection)	55	62	74	84	69	78	91	104	85	95	111	125	103	114	131	143
	L (Deflection)	55	62	74	83	69	78	88	97	85	92	103	113	99	106	119	131
16'-0"	D+L (Strength)	59	65	74	82	68	75	85	93	77	85	96	105	87	96	108	119
	D+L (Deflection)	39	45	54	62	50	57	68	78	63	71	83	95	77	86	101	115
	L (Deflection)	39	45	54	62	50	57	68	78	63	71	83	93	77	86	98	108
17'-0"	D+L (Strength)	47	52	60	67	46	61	69	76	50	69	79	87	55	79	89	98
	D+L (Deflection)	26	31	38	45	35	41	50	58	45	52	62	72	55	64	77	88
	L (Deflection)	26	31	38	45	35	41	50	58	45	52	62	72	55	64	77	88
18'-0"	D+L (Strength)	33	42	48	54	36	49	56	63	40	56	65	72	43	64	74	81
	D+L (Deflection)	16	20	26	32	23	28	35	42	32	37	46	54	41	47	57	67
	L (Deflection)	16	20	26	32	23	28	35	42	32	37	46	54	41	47	57	67
19'-0"	D+L (Strength)	25	32	39	44	28	41	45	51	31	45	52	59	34	49	60	67
	D+L (Deflection)	8	11	17	21	14	18	24	30	21	25	32	39	28	33	42	50
	L (Deflection)	8	11	17	21	14	18	24	30	21	25	32	39	28	33	42	50
20'-0"	D+L (Strength)	19	30	30	34	21	33	36	41	23	36	42	47	26	40	49	55
	D+L (Deflection)	2	4	9	13	6	9	15	19	12	15	21	27	18	22	29	36
	L (Deflection)	2	4	9	13	6	9	15	19	12	15	21	27	18	22	29	36

MAXIMUM UNSHORED CONSTRUCTION CLEAR SPANS

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

8'-0"	D+L (Strength)	305	← Max. superimposed ASD dead + live load (psf) (governed by strength limitation)
	D+L (Deflection)	305	← Max. superimposed ASD dead + live load (psf) (governed by deflection limitation of L/240)
	L (Deflection)	305	← 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<sub>D</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)
- 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

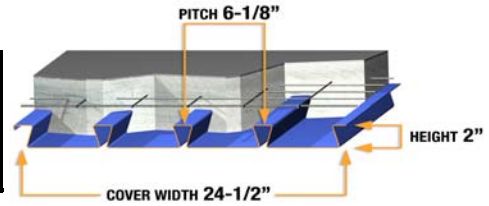
If welded wire fabric is not supplied per ACI requirements (0.00075\*Ac), reduce loads by 10%. The section property table is based on 2001 AISI's Cold-Formed Steel Design Manual, 2004 Supplement. The live loads and unshored construction clear spans are based on the Steel Deck Institute's Composite Deck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

115 PCF LIGHTWEIGHT CONCRETE TABLE

SECTION PROPERTIES

fy=40 ksi

GAGE	Wd	I <sub>b</sub>	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 (44.8)				5.25 (47.2)				5.5 (49.6)				5.75 (52.0)			
Span	Load	GAGE															
		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)	355	372	400	400	377	395	400	400	399	400	400	400	400	400	400	400
	D+L (Deflection)	355	372	400	400	377	395	400	400	399	400	400	400	400	400	400	400
	L (Deflection)	355	372	400	400	377	395	400	400	399	400	400	400	400	400	400	400
10'-0"	D+L (Strength)	313	332	361	391	333	353	383	400	354	373	400	400	375	393	400	400
	D+L (Deflection)	313	332	361	391	333	353	383	400	354	373	400	400	375	393	400	400
	L (Deflection)	313	332	361	391	333	353	383	400	354	373	400	400	375	393	400	400
11'-0"	D+L (Strength)	250	294	324	349	267	318	345	374	284	336	365	396	300	354	385	400
	D+L (Deflection)	250	294	324	349	267	318	345	374	284	336	365	396	300	354	385	400
	L (Deflection)	250	294	324	349	267	318	345	374	284	336	365	396	300	354	385	400
12'-0"	D+L (Strength)	203	238	263	283	216	262	289	312	230	282	317	342	244	299	346	373
	D+L (Deflection)	203	238	263	283	216	262	289	312	230	282	317	342	244	299	346	373
	L (Deflection)	203	238	263	283	216	262	289	312	230	282	317	342	244	299	346	373
13'-0"	D+L (Strength)	166	194	215	232	177	214	237	256	188	233	260	281	200	247	285	308
	D+L (Deflection)	166	194	215	232	177	214	237	256	188	233	260	281	200	247	285	308
	L (Deflection)	166	188	210	231	177	214	237	256	188	233	260	281	200	247	285	308
14'-0"	D+L (Strength)	137	159	177	192	146	176	196	212	155	193	215	233	165	205	236	256
	D+L (Deflection)	137	159	177	192	146	176	196	212	155	193	215	233	165	205	236	256
	L (Deflection)	137	150	168	185	146	172	192	211	155	193	215	233	165	205	236	256
15'-0"	D+L (Strength)	113	131	146	159	121	145	162	176	129	160	179	195	136	172	196	214
	D+L (Deflection)	113	131	146	159	121	145	162	176	129	160	179	195	136	172	196	214
	L (Deflection)	113	122	137	150	121	140	156	171	129	159	177	195	136	172	196	214
16'-0"	D+L (Strength)	74	108	121	133	79	120	135	147	85	133	149	163	90	144	164	179
	D+L (Deflection)	74	104	121	133	79	120	135	147	85	133	149	163	90	144	164	179
	L (Deflection)	74	101	113	124	79	115	129	141	85	131	146	160	90	144	164	179
17'-0"	D+L (Strength)	59	89	101	110	64	99	112	123	68	110	125	137	73	98	138	151
	D+L (Deflection)	59	78	92	105	64	94	110	123	68	110	125	137	73	98	138	151
	L (Deflection)	59	78	92	103	64	94	107	118	68	109	122	134	73	98	137	151
18'-0"	D+L (Strength)	47	66	83	92	51	71	93	103	54	76	104	114	58	81	115	127
	D+L (Deflection)	47	59	70	81	51	71	85	97	54	76	100	114	58	81	115	127
	L (Deflection)	47	59	70	81	51	71	85	97	54	76	100	113	58	81	115	127
19'-0"	D+L (Strength)	37	54	68	76	40	58	77	86	43	62	87	96	45	66	96	107
	D+L (Deflection)	37	43	52	62	40	53	64	75	43	62	77	89	45	66	92	105
	L (Deflection)	37	43	52	62	40	53	64	75	43	62	77	89	45	66	92	105
20'-0"	D+L (Strength)	28	43	56	63	30	47	63	71	33	50	72	80	35	54	86	89
	D+L (Deflection)	25	30	38	46	30	38	48	57	33	48	59	69	35	54	71	82
	L (Deflection)	25	30	38	46	30	38	48	57	33	48	59	69	35	54	71	82

MAXIMUM UNSHORED CONSTRUCTION CLEAR SPANS

1span	6'-3"	7'-2"	8'-6"	9'-9"	6'-2"	7'-0"	8'-4"	9'-7"	6'-0"	6'-11"	8'-2"	9'-5"	5'-11"	6'-9"	8'-1"	9'-3"
2span	7'-11"	8'-10"	10'-4"	11'-8"	7'-10"	8'-9"	10'-2"	11'-6"	7'-8"	8'-7"	10'-0"	11'-4"	7'-6"	8'-5"	9'-10"	11'-1"
3span	8'-2"	9'-2"	10'-8"	12'-1"	8'-1"	9'-0"	10'-6"	11'-11"	7'-11"	8'-10"	10'-4"	11'-8"	7'-10"	8'-9"	10'-2"	11'-6"
cantilever	2'-6"	3'-0"	3'-9"	4'-6"	2'-6"	2'-11"	3'-9"	4'-5"	2'-5"	2'-11"	3'-8"	4'-5"	2'-5"	2'-11"	3'-8"	4'-4"
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<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)
- 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

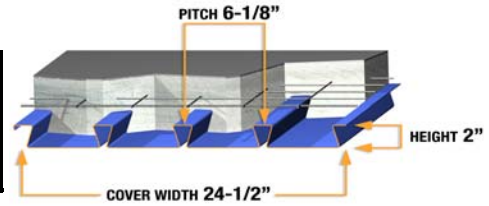
If welded wire fabric is not supplied per ACI requirements (0.00075\*Ac), reduce loads by 10%. The section property table is based on 2001 AISI's Cold-Formed Steel Design Manual, 2004 Supplement. The live loads and unshored construction clear spans are based on the Steel Deck Institute's Composite Deck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

115 PCF LIGHTWEIGHT CONCRETE TABLE

SECTION PROPERTIES

fy=40 ksi

GAGE	Wd	I <sub>D</sub>	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 (54.4)	6.25 (56.8)				6.5 (59.2)				6.75 (61.6)							
		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)	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)	394	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
	D+L (Deflection)	394	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
	L (Deflection)	394	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
11'-0"	D+L (Strength)	317	373	400	400	333	391	400	400	350	400	400	400	367	400	400	400
	D+L (Deflection)	317	373	400	400	333	391	400	400	350	400	400	400	367	400	400	400
	L (Deflection)	317	373	400	400	333	391	400	400	350	400	400	400	367	400	400	400
12'-0"	D+L (Strength)	257	316	368	400	271	333	387	400	284	350	400	400	298	367	400	400
	D+L (Deflection)	257	316	368	400	271	333	387	400	284	350	400	400	298	367	400	400
	L (Deflection)	257	316	368	400	271	333	387	400	284	350	400	400	298	367	400	400
13'-0"	D+L (Strength)	211	261	310	335	222	275	336	364	233	289	363	393	244	304	388	400
	D+L (Deflection)	211	261	310	335	222	275	336	364	233	289	363	393	244	304	388	400
	L (Deflection)	211	261	310	335	222	275	336	364	233	289	363	393	244	304	388	400
14'-0"	D+L (Strength)	174	217	257	279	183	229	279	303	193	241	302	328	202	253	326	354
	D+L (Deflection)	174	217	257	279	183	229	279	303	193	241	302	328	202	253	326	354
	L (Deflection)	174	217	257	279	183	229	279	303	193	241	302	328	202	253	326	354
15'-0"	D+L (Strength)	118	182	215	233	125	192	234	254	131	202	253	275	138	212	274	298
	D+L (Deflection)	118	182	215	233	125	192	234	254	131	202	253	275	138	212	274	298
	L (Deflection)	118	182	215	233	125	192	234	254	131	202	253	275	138	212	274	298
16'-0"	D+L (Strength)	96	153	180	196	101	162	196	214	107	170	213	232	112	149	231	252
	D+L (Deflection)	96	153	180	196	101	162	196	214	107	170	213	232	112	149	231	252
	L (Deflection)	96	153	180	196	101	162	196	214	107	170	213	232	112	149	231	252
17'-0"	D+L (Strength)	77	105	151	165	82	111	165	181	86	117	180	197	91	123	195	213
	D+L (Deflection)	77	105	151	165	82	111	165	181	86	117	180	197	91	123	195	213
	L (Deflection)	77	105	151	165	82	111	165	181	86	117	180	197	91	123	195	213
18'-0"	D+L (Strength)	62	86	127	140	65	91	139	153	69	96	152	167	72	101	165	181
	D+L (Deflection)	62	86	127	140	65	91	139	153	69	96	152	167	72	101	165	181
	L (Deflection)	62	86	127	140	65	91	139	153	69	96	152	167	72	101	165	181
19'-0"	D+L (Strength)	48	70	107	118	51	75	117	129	54	79	122	142	57	83	129	154
	D+L (Deflection)	48	70	107	118	51	75	117	129	54	79	122	142	57	83	129	154
	L (Deflection)	48	70	107	118	51	75	117	129	54	79	122	142	57	83	129	154
20'-0"	D+L (Strength)	37	57	92	99	39	61	97	109	42	64	103	120	44	68	109	131
	D+L (Deflection)	37	57	92	99	39	61	97	109	42	64	103	120	44	68	109	131
	L (Deflection)	37	57	92	99	39	61	97	109	42	64	103	120	44	68	109	131

MAXIMUM UNSHORED CONSTRUCTION CLEAR SPANS

1span	5'-10"	6'-8"	7'-11"	9'-1"	5'-9"	6'-7"	7'-9"	8'-11"	5'-8"	6'-5"	7'-8"	8'-9"	5'-7"	6'-4"	7'-7"	8'-8"
2span	7'-5"	8'-3"	9'-8"	10'-11"	7'-4"	8'-2"	9'-6"	10'-9"	7'-2"	8'-1"	9'-5"	10'-8"	7'-1"	7'-11"	9'-3"	10'-6"
3span	7'-8"	8'-7"	10'-0"	11'-4"	7'-7"	8'-5"	9'-10"	11'-2"	7'-5"	8'-4"	9'-8"	11'-0"	7'-4"	8'-2"	9'-7"	10'-10"
cantilever	2'-5"	2'-10"	3'-7"	4'-3"	2'-5"	2'-10"	3'-6"	4'-3"	2'-4"	2'-9"	3'-6"	4'-2"	2'-4"	2'-9"	3'-5"	4'-1"
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<sub>D</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)
- 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.

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