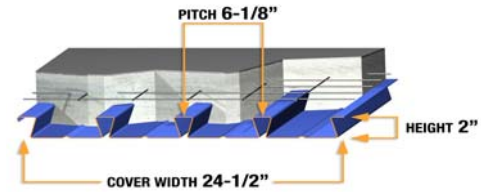


SECTION PROPERTIES

fy=40 ksi

GAGE	Wd	I _D	Sp	Sn	Rbe			Rbi		
					2"	3"	4"	4"	5"	6"
22	2.23	0.407	0.288	0.281	949	1093	1214	1861	2006	2138
20	2.71	0.495	0.361	0.347	1351	1549	1716	2641	2842	3023
18	3.58	0.658	0.483	0.484	2251	2564	2827	4385	4701	4986
16	4.51	0.832	0.614	0.617	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	319	370	399	330	345	400	400	354	371	400	400	379	397	400	400
	D+L (Deflection)	305	319	370	399	330	345	400	400	354	371	400	400	379	397	400	400
	L (Deflection)	305	319	370	399	330	345	400	400	354	371	400	400	379	397	400	400
9'-0"	D+L (Strength)	269	281	267	355	290	304	278	383	312	327	354	400	334	350	379	400
	D+L (Deflection)	269	281	267	355	290	304	278	383	312	327	354	400	334	350	379	400
	L (Deflection)	269	281	267	355	290	304	278	383	312	327	354	400	334	350	379	400
10'-0"	D+L (Strength)	225	241	266	265	252	270	294	277	273	291	316	287	294	312	338	296
	D+L (Deflection)	225	241	266	265	252	270	294	277	273	291	316	287	294	312	338	296
	L (Deflection)	209	226	253	265	246	266	294	277	273	291	316	287	294	312	338	296
11'-0"	D+L (Strength)	177	191	211	228	200	215	237	256	218	240	264	285	235	266	294	316
	D+L (Deflection)	177	191	211	228	200	215	237	256	218	240	264	285	235	266	294	316
	L (Deflection)	157	170	190	210	185	200	224	247	216	233	261	285	235	266	294	316
12'-0"	D+L (Strength)	142	153	170	184	160	172	191	206	177	193	213	231	191	215	237	256
	D+L (Deflection)	142	153	170	184	160	172	191	206	177	193	213	231	191	215	237	256
	L (Deflection)	121	131	147	162	143	154	172	190	167	180	201	221	191	208	233	256
13'-0"	D+L (Strength)	114	123	137	149	129	139	155	168	144	156	174	188	156	175	194	210
	D+L (Deflection)	105	116	134	149	128	139	155	168	144	156	174	188	156	175	194	210
	L (Deflection)	95	103	115	127	112	121	136	149	131	141	158	174	152	164	183	201
14'-0"	D+L (Strength)	92	100	112	122	104	113	127	138	118	128	142	155	128	143	159	173
	D+L (Deflection)	77	85	100	113	95	105	122	137	115	127	142	155	128	143	159	173
	L (Deflection)	76	82	92	102	90	97	109	120	105	113	127	139	122	131	147	161
15'-0"	D+L (Strength)	74	81	91	100	84	92	104	113	96	104	117	128	106	117	131	143
	D+L (Deflection)	55	62	74	84	70	78	91	104	86	95	111	125	104	115	131	143
	L (Deflection)	55	62	74	83	70	78	88	97	85	92	103	113	99	107	119	131
16'-0"	D+L (Strength)	59	65	74	82	68	75	85	93	78	85	96	105	88	96	108	119
	D+L (Deflection)	39	45	54	63	50	57	68	78	63	71	84	95	77	86	101	115
	L (Deflection)	39	45	54	63	50	57	68	78	63	71	84	93	77	86	98	108
17'-0"	D+L (Strength)	47	52	60	67	55	61	69	76	51	69	79	87	55	79	89	98
	D+L (Deflection)	26	31	39	46	35	41	50	58	46	52	62	72	55	65	77	88
	L (Deflection)	26	31	39	46	35	41	50	58	46	52	62	72	55	65	77	88
18'-0"	D+L (Strength)	33	42	48	54	37	49	56	63	40	56	65	72	44	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)	26	33	39	44	28	38	45	51	31	46	52	59	34	50	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	24	37	42	47	26	40	49	55
	D+L (Deflection)	2	4	9	13	6	9	15	19	12	15	22	27	18	22	29	36
	L (Deflection)	2	4	9	13	6	9	15	19	12	15	22	27	18	22	29	36

MAXIMUM UNSHORED CONSTRUCTION CLEAR SPANS

1span	6'-9"	7'-10"	9'-4"	10'-8"	6'-8"	7'-8"	9'-1"	10'-5"	6'-6"	7'-6"	8'-10"	10'-2"	6'-4"	7'-4"	8'-8"	10'-0"
2span	8'-9"	9'-9"	11'-5"	12'-10"	8'-7"	9'-6"	11'-2"	12'-7"	8'-5"	9'-4"	11'-0"	12'-4"	8'-3"	9'-2"	10'-9"	12'-1"
3span	9'-1"	10'-1"	11'-10"	13'-3"	8'-11"	9'-10"	11'-7"	13'-0"	8'-9"	9'-8"	11'-4"	12'-9"	8'-7"	9'-6"	11'-2"	12'-6"
cantilever	2'-9"	3'-3"	4'-2"	4'-11"	2'-8"	3'-2"	4'-1"	4'-10"	2'-8"	3'-2"	4'-0"	4'-9"	2'-8"	3'-1"	4'-0"	4'-8"
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_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

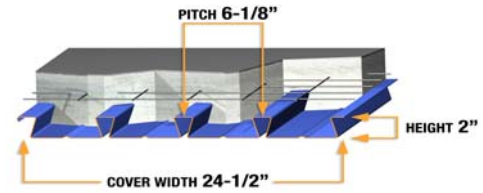
If welded wire fabric is not supplied per ACI requirements (0.00075*Ac), reduce loads by 10%. The section property table is based on 2001 AISI's Cold-Formed Steel Design Manual, 2004 Supplement. The live loads and unshored construction clear spans are based on the Steel Deck Institute's Composite Deck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

115 PCF LIGHTWEIGHT CONCRETE TABLE

SECTION PROPERTIES

fy=40 ksi

GAGE	Wd	I _D	Sp	Sn	Rbe			Rbi		
					2"	3"	4"	4"	5"	6"
22	2.23	0.407	0.288	0.281	949	1093	1214	1861	2006	2138
20	2.71	0.495	0.361	0.347	1351	1549	1716	2641	2842	3023
18	3.58	0.658	0.483	0.484	2251	2564	2827	4385	4701	4986
16	4.51	0.832	0.614	0.617	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	398	400	400	400	400	400	400	400
	D+L (Deflection)	355	372	400	400	377	395	400	400	398	400	400	400	400	400	400	400
	L (Deflection)	355	372	400	400	377	395	400	400	398	400	400	400	400	400	400	400
10'-0"	D+L (Strength)	315	332	360	390	336	352	383	400	355	373	400	400	375	393	400	400
	D+L (Deflection)	315	332	360	390	336	352	383	400	355	373	400	400	375	393	400	400
	L (Deflection)	315	332	360	390	336	352	383	400	355	373	400	400	375	393	400	400
11'-0"	D+L (Strength)	252	294	324	349	269	318	345	374	286	336	365	396	302	354	385	400
	D+L (Deflection)	252	294	324	349	269	318	345	374	286	336	365	396	302	354	385	400
	L (Deflection)	252	294	324	349	269	318	345	374	286	336	365	396	302	354	385	400
12'-0"	D+L (Strength)	204	238	263	284	218	262	289	312	232	284	317	342	245	302	346	374
	D+L (Deflection)	204	238	263	284	218	262	289	312	232	284	317	342	245	302	346	374
	L (Deflection)	204	238	263	284	218	262	289	312	232	284	317	342	245	302	346	374
13'-0"	D+L (Strength)	167	194	215	233	178	214	237	257	190	235	261	282	201	249	285	308
	D+L (Deflection)	167	194	215	233	178	214	237	257	190	235	261	282	201	249	285	308
	L (Deflection)	167	188	210	231	178	214	237	257	190	235	261	282	201	249	285	308
14'-0"	D+L (Strength)	138	159	177	192	147	176	196	212	156	194	216	234	166	207	236	256
	D+L (Deflection)	138	159	177	192	147	176	196	212	156	194	216	234	166	207	236	256
	L (Deflection)	138	151	168	185	147	172	192	211	156	194	216	234	166	207	236	256
15'-0"	D+L (Strength)	114	131	146	159	122	145	162	177	130	160	179	195	138	173	197	214
	D+L (Deflection)	114	131	146	159	122	145	162	177	130	160	179	195	138	173	197	214
	L (Deflection)	114	122	137	151	122	140	156	172	130	159	177	195	138	173	197	214
16'-0"	D+L (Strength)	94	108	121	133	101	120	135	147	85	133	149	163	91	146	165	179
	D+L (Deflection)	93	104	121	133	101	120	135	147	85	133	149	163	91	146	165	179
	L (Deflection)	93	101	113	124	101	115	129	142	85	131	146	161	91	146	165	179
17'-0"	D+L (Strength)	60	89	101	110	64	99	112	123	69	110	125	137	73	122	138	151
	D+L (Deflection)	60	79	93	106	64	94	110	123	69	110	125	137	73	122	138	151
	L (Deflection)	60	79	93	103	64	94	107	118	69	109	122	134	73	122	138	151
18'-0"	D+L (Strength)	47	73	83	92	51	71	93	103	55	77	104	115	58	82	115	127
	D+L (Deflection)	47	59	70	81	51	71	85	97	55	77	101	115	58	82	115	127
	L (Deflection)	47	59	70	81	51	71	85	97	55	77	101	113	58	82	115	127
19'-0"	D+L (Strength)	37	54	68	76	40	58	77	86	43	63	87	96	46	67	96	107
	D+L (Deflection)	37	43	53	62	40	53	65	75	43	63	78	90	46	67	92	106
	L (Deflection)	37	43	53	62	40	53	65	75	43	63	78	90	46	67	92	106
20'-0"	D+L (Strength)	28	44	56	63	31	47	64	71	33	51	72	80	35	54	80	89
	D+L (Deflection)	25	30	38	46	31	39	48	57	33	48	59	69	35	54	71	83
	L (Deflection)	25	30	38	46	31	39	48	57	33	48	59	69	35	54	71	83

MAXIMUM UNSHORED CONSTRUCTION CLEAR SPANS

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

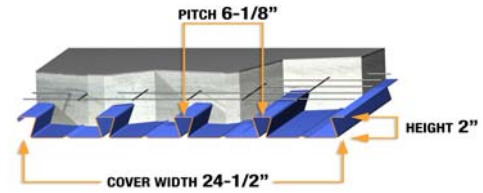
If welded wire fabric is not supplied per ACI requirements (0.00075*Ac), reduce loads by 10%. The section property table is based on 2001 AISI's Cold-Formed Steel Design Manual, 2004 Supplement. The live loads and unshored construction clear spans are based on the Steel Deck Institute's Composite Deck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

115 PCF LIGHTWEIGHT CONCRETE TABLE

SECTION PROPERTIES

fy=40 ksi

GAGE	Wd	I _D	Sp	Sn	Rbe			Rbi		
					2"	3"	4"	4"	5"	6"
22	2.23	0.407	0.288	0.281	949	1093	1214	1861	2006	2138
20	2.71	0.495	0.361	0.347	1351	1549	1716	2641	2842	3023
18	3.58	0.658	0.483	0.484	2251	2564	2827	4385	4701	4986
16	4.51	0.832	0.614	0.617	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)			
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)	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)	319	373	400	400	336	391	400	400	353	400	400	400	369	400	400	400
	D+L (Deflection)	319	373	400	400	336	391	400	400	353	400	400	400	369	400	400	400
	L (Deflection)	319	373	400	400	336	391	400	400	353	400	400	400	369	400	400	400
12'-0"	D+L (Strength)	259	319	368	400	273	336	387	400	287	353	400	400	300	370	400	400
	D+L (Deflection)	259	319	368	400	273	336	387	400	287	353	400	400	300	370	400	400
	L (Deflection)	259	319	368	400	273	336	387	400	287	353	400	400	300	370	400	400
13'-0"	D+L (Strength)	212	263	310	336	224	277	337	364	235	292	364	394	246	306	387	400
	D+L (Deflection)	212	263	310	336	224	277	337	364	235	292	364	394	246	306	387	400
	L (Deflection)	212	263	310	336	224	277	337	364	235	292	364	394	246	306	387	400
14'-0"	D+L (Strength)	175	219	258	279	185	231	280	303	194	243	303	328	204	255	327	354
	D+L (Deflection)	175	219	258	279	185	231	280	303	194	243	303	328	204	255	327	354
	L (Deflection)	175	219	258	279	185	231	280	303	194	243	303	328	204	255	327	354
15'-0"	D+L (Strength)	145	183	215	234	153	193	234	254	132	204	254	276	139	214	274	298
	D+L (Deflection)	145	183	215	234	153	193	234	254	132	204	254	276	139	214	274	298
	L (Deflection)	145	183	215	234	153	193	234	254	132	204	254	276	139	214	274	298
16'-0"	D+L (Strength)	96	154	180	196	102	163	197	214	108	171	214	233	113	180	231	252
	D+L (Deflection)	96	154	180	196	102	163	197	214	108	171	214	233	113	180	231	252
	L (Deflection)	96	154	180	196	102	163	197	214	108	171	214	233	113	180	231	252
17'-0"	D+L (Strength)	78	105	151	166	82	112	166	181	87	118	180	197	91	124	196	214
	D+L (Deflection)	78	105	151	166	82	112	166	181	87	118	180	197	91	124	196	214
	L (Deflection)	78	105	151	166	82	112	166	181	87	118	180	197	91	124	196	214
18'-0"	D+L (Strength)	62	87	127	140	66	92	140	153	69	97	152	167	73	102	166	182
	D+L (Deflection)	62	87	127	140	66	92	140	153	69	97	152	167	73	102	166	182
	L (Deflection)	62	87	127	140	66	92	140	153	69	97	152	167	73	102	166	182
19'-0"	D+L (Strength)	49	71	107	118	52	75	117	130	55	80	129	142	58	84	140	155
	D+L (Deflection)	49	71	107	118	52	75	117	130	55	80	129	142	58	84	140	155
	L (Deflection)	49	71	107	118	52	75	117	130	55	80	129	142	58	84	140	155
20'-0"	D+L (Strength)	38	58	92	99	40	61	98	110	42	65	104	120	45	68	109	132
	D+L (Deflection)	38	58	92	99	40	61	98	110	42	65	104	120	45	68	109	132
	L (Deflection)	38	58	92	99	40	61	98	110	42	65	104	120	45	68	109	132

MAXIMUM UNSHORED CONSTRUCTION CLEAR SPANS

1span	5'-10"	6'-8"	7'-11"	9'-0"	5'-8"	6'-6"	7'-9"	8'-11"	5'-7"	6'-5"	7'-7"	8'-9"	5'-7"	6'-4"	7'-6"	8'-8"
2span	7'-7"	8'-5"	9'-11"	11'-1"	7'-6"	8'-3"	9'-9"	10'-11"	7'-4"	8'-2"	9'-7"	10'-10"	7'-3"	8'-1"	9'-6"	10'-8"
3span	7'-10"	8'-8"	10'-3"	11'-6"	7'-9"	8'-7"	10'-1"	11'-4"	7'-7"	8'-5"	9'-11"	11'-2"	7'-6"	8'-4"	9'-9"	11'-0"
cantilever	2'-6"	2'-11"	3'-8"	4'-4"	2'-6"	2'-11"	3'-8"	4'-4"	2'-5"	2'-10"	3'-7"	4'-3"	2'-5"	2'-10"	3'-7"	4'-3"
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_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.

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