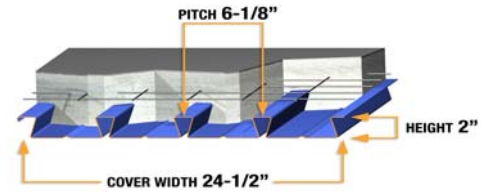


SECTION PROPERTIES

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 (36.7)				4.25 (39.2)				4.5 (41.7)				4.75 (44.2)							
Span	Load	GAGE																			
		22				20				18				16							
8'-0"	D+L (Strength)	305	319	371	400	329	345	400	400	354	371	400	400	354	371	400	400	378	396	400	400
	D+L (Deflection)	305	319	371	400	329	345	400	400	354	371	400	400	354	371	400	400	378	396	400	400
	L (Deflection)	305	319	371	400	329	345	400	400	354	371	400	400	354	371	400	400	378	396	400	400
9'-0"	D+L (Strength)	268	281	261	355	290	304	329	384	311	326	354	400	333	349	379	400	333	349	379	400
	D+L (Deflection)	268	281	261	355	290	304	329	384	311	326	354	400	333	349	379	400	333	349	379	400
	L (Deflection)	268	281	261	355	290	304	329	384	311	326	354	400	333	349	379	400	333	349	379	400
10'-0"	D+L (Strength)	217	233	258	260	244	262	289	271	272	291	316	280	292	311	338	366	292	311	338	366
	D+L (Deflection)	217	233	258	260	244	262	289	271	272	291	316	280	292	311	338	366	292	311	338	366
	L (Deflection)	217	233	258	260	244	262	289	271	272	291	316	280	292	311	338	366	292	311	338	366
11'-0"	D+L (Strength)	171	184	204	221	192	207	229	248	215	232	256	277	233	258	285	307	233	258	285	307
	D+L (Deflection)	171	184	204	221	192	207	229	248	215	232	256	277	233	258	285	307	233	258	285	307
	L (Deflection)	163	176	198	218	192	207	229	248	215	232	256	277	233	258	285	307	233	258	285	307
12'-0"	D+L (Strength)	136	147	164	178	153	166	184	200	172	186	206	223	189	207	230	249	189	207	230	249
	D+L (Deflection)	136	147	164	178	153	166	184	200	172	186	206	223	189	207	230	249	189	207	230	249
	L (Deflection)	126	136	152	168	148	160	179	197	172	186	206	223	189	207	230	249	189	207	230	249
13'-0"	D+L (Strength)	109	118	132	144	123	134	149	162	139	150	167	182	154	168	187	203	154	168	187	203
	D+L (Deflection)	109	118	132	144	123	134	149	162	139	150	167	182	154	168	187	203	154	168	187	203
	L (Deflection)	99	107	120	132	117	126	141	155	136	147	164	181	154	168	187	203	154	168	187	203
14'-0"	D+L (Strength)	87	95	107	117	99	108	121	132	112	122	137	149	126	137	153	166	126	137	153	166
	D+L (Deflection)	80	89	103	117	99	108	121	132	112	122	137	149	126	137	153	166	126	137	153	166
	L (Deflection)	79	85	96	106	93	101	113	124	109	118	132	145	126	136	152	166	126	136	152	166
15'-0"	D+L (Strength)	69	76	87	95	80	87	99	108	90	99	112	122	102	111	125	137	102	111	125	137
	D+L (Deflection)	58	65	76	87	72	81	95	108	89	99	112	122	102	111	125	137	102	111	125	137
	L (Deflection)	58	65	76	86	72	81	92	101	89	96	107	118	102	111	124	136	102	111	124	136
16'-0"	D+L (Strength)	55	61	70	77	64	70	80	88	73	80	91	100	83	91	103	113	83	91	103	113
	D+L (Deflection)	41	46	56	65	52	59	70	81	66	74	87	99	81	90	103	113	81	90	103	113
	L (Deflection)	41	46	56	65	52	59	70	81	66	74	87	97	81	90	102	112	81	90	102	112
17'-0"	D+L (Strength)	43	49	56	63	50	56	65	72	49	55	64	74	54	61	69	77	54	61	69	77
	D+L (Deflection)	27	32	40	47	37	42	52	60	47	54	65	75	54	62	70	78	54	62	70	78
	L (Deflection)	27	32	40	47	37	42	52	60	47	54	65	75	54	62	70	78	54	62	70	78
18'-0"	D+L (Strength)	32	38	45	50	35	45	52	58	39	52	60	67	42	59	69	77	42	59	69	77
	D+L (Deflection)	17	21	27	33	24	29	37	44	33	38	47	56	42	49	60	69	42	49	60	69
	L (Deflection)	17	21	27	33	24	29	37	44	33	38	47	56	42	49	60	69	42	49	60	69
19'-0"	D+L (Strength)	24	29	35	40	27	40	41	47	30	44	48	54	33	48	56	63	33	48	56	63
	D+L (Deflection)	9	12	17	22	15	18	25	31	21	26	34	40	29	35	43	52	29	35	43	52
	L (Deflection)	9	12	17	22	15	18	25	31	21	26	34	40	29	35	43	52	29	35	43	52
20'-0"	D+L (Strength)	18	29	27	31	20	32	32	37	22	35	38	43	24	39	44	50	24	39	44	50
	D+L (Deflection)	2	4	9	13	7	10	15	20	12	16	22	28	19	23	30	37	19	23	30	37
	L (Deflection)	2	4	9	13	7	10	15	20	12	16	22	28	19	23	30	37	19	23	30	37

MAXIMUM UNSHORED CONSTRUCTION CLEAR SPANS

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

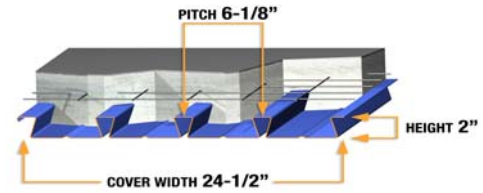
If welded wire fabric is not supplied per ACI requirements (0.00075*Ac), reduce loads by 10%. The section property table is based on 2001 AISI's Cold-Formed Steel Design Manual, 2004 Supplement. The live loads and unshored construction clear spans are based on the Steel Deck Institute's Composite Deck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

120 PCF LIGHTWEIGHT CONCRETE TABLE

SECTION PROPERTIES

fy=40 ksi

GAGE	Wd	I _b	Sp	Sn	Rbe			Rbi		
					2"	3"	4"	4"	5"	6"
22	2.23	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 (46.7)				5.25 (49.2)				5.5 (51.7)				5.75 (54.2)			
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)	354	372	400	400	376	395	400	400	398	400	400	400	400	400	400	400
	D+L (Deflection)	354	372	400	400	376	395	400	400	398	400	400	400	400	400	400	400
	L (Deflection)	354	372	400	400	376	395	400	400	398	400	400	400	400	400	400	400
10'-0"	D+L (Strength)	313	332	360	390	334	352	382	400	354	372	400	400	374	392	400	400
	D+L (Deflection)	313	332	360	390	334	352	382	400	354	372	400	400	374	392	400	400
	L (Deflection)	313	332	360	390	334	352	382	400	354	372	400	400	374	392	400	400
11'-0"	D+L (Strength)	250	285	315	340	267	313	344	373	283	335	364	395	300	354	384	400
	D+L (Deflection)	250	285	315	340	267	313	344	373	283	335	364	395	300	354	384	400
	L (Deflection)	250	285	315	340	267	313	344	373	283	335	364	395	300	354	384	400
12'-0"	D+L (Strength)	202	230	254	275	216	253	280	303	230	278	307	332	243	299	336	363
	D+L (Deflection)	202	230	254	275	216	253	280	303	230	278	307	332	243	299	336	363
	L (Deflection)	202	230	254	275	216	253	280	303	230	278	307	332	243	299	336	363
13'-0"	D+L (Strength)	165	186	207	225	176	206	229	248	188	226	252	273	199	247	275	299
	D+L (Deflection)	165	186	207	225	176	206	229	248	188	226	252	273	199	247	275	299
	L (Deflection)	165	186	207	225	176	206	229	248	188	226	252	273	199	247	275	299
14'-0"	D+L (Strength)	136	152	170	185	145	169	188	205	154	186	208	226	164	204	228	247
	D+L (Deflection)	136	152	170	185	145	169	188	205	154	186	208	226	164	204	228	247
	L (Deflection)	136	152	170	185	145	169	188	205	154	186	208	226	164	204	228	247
15'-0"	D+L (Strength)	112	125	140	153	120	139	156	170	127	153	172	187	135	168	189	206
	D+L (Deflection)	112	125	140	153	120	139	156	170	127	153	172	187	135	168	189	206
	L (Deflection)	112	125	140	153	120	139	156	170	127	153	172	187	135	168	189	206
16'-0"	D+L (Strength)	92	102	116	127	78	114	129	141	84	126	143	156	89	139	157	172
	D+L (Deflection)	92	102	116	127	78	114	129	141	84	126	143	156	89	139	157	172
	L (Deflection)	92	102	116	127	78	114	129	141	84	126	143	156	89	139	157	172
17'-0"	D+L (Strength)	58	83	95	105	62	93	107	117	67	104	119	130	71	98	131	144
	D+L (Deflection)	58	83	95	105	62	93	107	117	67	104	119	130	71	98	131	144
	L (Deflection)	58	83	95	105	62	93	107	117	67	104	119	130	71	98	131	144
18'-0"	D+L (Strength)	46	65	78	87	49	70	88	97	53	75	98	109	56	80	109	121
	D+L (Deflection)	46	65	78	87	49	70	88	97	53	75	98	109	56	80	109	121
	L (Deflection)	46	65	78	87	49	70	88	97	53	75	98	109	56	80	109	121
19'-0"	D+L (Strength)	35	53	64	71	38	57	72	81	41	61	81	90	44	65	91	101
	D+L (Deflection)	35	53	64	71	38	57	72	81	41	61	81	90	44	65	91	101
	L (Deflection)	35	53	64	71	38	57	72	81	41	61	81	90	44	65	91	101
20'-0"	D+L (Strength)	27	42	51	58	29	45	59	66	31	49	66	75	33	52	85	84
	D+L (Deflection)	27	42	51	58	29	45	59	66	31	49	66	75	33	52	85	84
	L (Deflection)	27	42	51	58	29	45	59	66	31	49	66	75	33	52	85	84

MAXIMUM UNSHORED CONSTRUCTION CLEAR SPANS

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

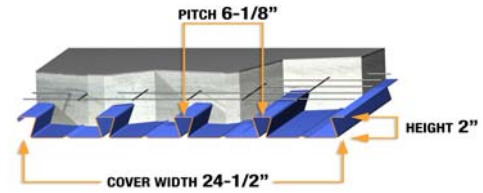
If welded wire fabric is not supplied per ACI requirements (0.00075*Ac), reduce loads by 10%. The section property table is based on 2001 AISI's Cold-Formed Steel Design Manual, 2004 Supplement. The live loads and unshored construction clear spans are based on the Steel Deck Institute's Composite Deck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

120 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 (56.7)				6.25 (59.2)				6.5 (61.7)				6.75 (64.2)			
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)	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)	393	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
	D+L (Deflection)	393	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
	L (Deflection)	393	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
11'-0"	D+L (Strength)	317	372	400	400	333	390	400	400	350	400	400	400	367	400	400	400
	D+L (Deflection)	317	372	400	400	333	390	400	400	350	400	400	400	367	400	400	400
	L (Deflection)	317	372	400	400	333	390	400	400	350	400	400	400	367	400	400	400
12'-0"	D+L (Strength)	257	316	365	395	270	333	386	400	284	350	400	400	298	367	400	400
	D+L (Deflection)	257	316	365	395	270	333	386	400	284	350	400	400	298	367	400	400
	L (Deflection)	257	316	365	395	270	333	386	400	284	350	400	400	298	367	400	400
13'-0"	D+L (Strength)	210	261	300	325	221	275	326	353	232	289	352	382	244	303	380	400
	D+L (Deflection)	210	261	300	325	221	275	326	353	232	289	352	382	244	303	380	400
	L (Deflection)	210	261	300	325	221	275	326	353	232	289	352	382	244	303	380	400
14'-0"	D+L (Strength)	173	217	248	270	182	228	270	293	192	240	292	318	201	252	316	343
	D+L (Deflection)	173	217	248	270	182	228	270	293	192	240	292	318	201	252	316	343
	L (Deflection)	173	217	248	270	182	228	270	293	192	240	292	318	201	252	316	343
15'-0"	D+L (Strength)	143	181	207	225	124	191	225	245	130	201	244	266	137	211	264	288
	D+L (Deflection)	143	181	207	225	124	191	225	245	130	201	244	266	137	211	264	288
	L (Deflection)	143	181	207	225	124	191	225	245	130	201	244	266	137	211	264	288
16'-0"	D+L (Strength)	94	152	172	189	100	160	188	206	105	169	205	224	111	148	222	243
	D+L (Deflection)	94	152	172	189	100	160	188	206	105	169	205	224	111	148	222	243
	L (Deflection)	94	152	172	189	100	160	188	206	105	169	205	224	111	148	222	243
17'-0"	D+L (Strength)	76	104	144	158	80	110	158	173	84	116	172	189	89	122	187	205
	D+L (Deflection)	76	104	144	158	80	110	158	173	84	116	172	189	89	122	187	205
	L (Deflection)	76	104	144	158	80	110	158	173	84	116	172	189	89	122	187	205
18'-0"	D+L (Strength)	60	85	120	133	64	90	132	146	67	95	145	160	71	100	157	174
	D+L (Deflection)	60	85	120	133	64	90	132	146	67	95	145	160	71	100	157	174
	L (Deflection)	60	85	120	133	64	90	132	146	67	95	145	160	71	100	157	174
19'-0"	D+L (Strength)	47	69	100	112	50	73	111	123	52	77	121	135	55	81	128	147
	D+L (Deflection)	47	69	100	112	50	73	111	123	52	77	121	135	55	81	128	147
	L (Deflection)	47	69	100	112	50	73	111	123	52	77	121	135	55	81	128	147
20'-0"	D+L (Strength)	35	56	91	93	38	59	96	103	40	62	102	114	42	66	107	124
	D+L (Deflection)	35	56	91	93	38	59	96	103	40	62	102	114	42	66	107	124
	L (Deflection)	35	56	91	93	38	59	96	103	40	62	102	114	42	66	107	124

MAXIMUM UNSHORED CONSTRUCTION CLEAR SPANS

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

120 PCF LIGHTWEIGHT CONCRETE TABLE