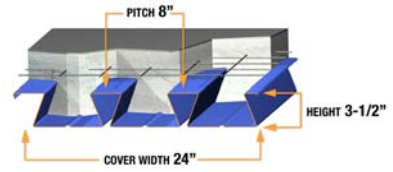


SECTION PROPERTIES fy=40 ksi

GAGE	Wd	I _b	Sp	Sn	Rbe			Rbi		
					2"	3"	4"	4"	5"	6"
20	3.33	1.959	0.767	0.820	909	1042	1154	1916	2061	2193
18	4.40	2.664	1.109	1.190	1534	1748	1928	3186	3415	3622
16	5.54	3.394	1.504	1.540	2362	2676	2940	4851	5184	5485



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

h (Wc)		5.5 (46.3)			5.75 (48.8)			6 (51.3)			6.25 (53.8)		
Span	Load Combinations	GAGE											
		20	18	16	20	18	16	20	18	16	20	18	16
13'-0"	D+L (Strength)	145	152	224	154	160	236	163	165	252	172	318	266
	D+L (Deflection)	145	152	224	154	160	236	163	165	252	172	318	266
	L (Deflection)	145	152	224	154	160	236	163	165	252	172	318	266
14'-0"	D+L (Strength)	121	226	176	128	237	184	136	245	194	143	264	203
	D+L (Deflection)	121	226	176	128	237	184	136	245	194	143	264	203
	L (Deflection)	121	219	176	128	237	184	136	245	194	143	264	203
15'-0"	D+L (Strength)	101	193	136	108	198	141	114	204	148	120	221	152
	D+L (Deflection)	101	193	136	108	198	141	114	204	148	120	221	152
	L (Deflection)	101	178	136	108	198	141	114	204	148	120	221	152
16'-0"	D+L (Strength)	86	166	200	91	166	206	96	171	199	102	185	204
	D+L (Deflection)	86	166	194	91	166	206	96	171	199	102	185	204
	L (Deflection)	86	146	164	91	164	182	96	171	199	102	185	204
17'-0"	D+L (Strength)	73	144	173	77	139	175	82	144	168	87	156	172
	D+L (Deflection)	73	132	153	77	139	173	82	144	168	87	156	172
	L (Deflection)	73	122	137	77	136	152	82	144	168	87	156	172
18'-0"	D+L (Strength)	62	124	151	66	117	149	70	121	143	74	131	146
	D+L (Deflection)	62	104	121	66	117	137	70	121	143	74	131	146
	L (Deflection)	62	103	115	66	115	128	70	121	142	74	131	146
19'-0"	D+L (Strength)	53	105	132	56	98	126	60	101	121	63	110	123
	D+L (Deflection)	53	80	95	56	93	108	60	101	121	63	110	123
	L (Deflection)	53	80	95	56	93	108	60	101	121	63	110	123
20'-0"	D+L (Strength)	45	89	116	48	82	107	51	85	102	54	92	104
	D+L (Deflection)	45	62	74	48	72	85	51	85	98	54	92	104
	L (Deflection)	45	62	74	48	72	85	51	85	98	54	92	104
21'-0"	D+L (Strength)	39	74	100	42	68	91	44	70	86	47	77	87
	D+L (Deflection)	36	46	57	42	55	66	44	66	77	47	77	87
	L (Deflection)	36	46	57	42	55	66	44	66	77	47	77	87
22'-0"	D+L (Strength)	33	62	86	36	56	77	38	58	72	40	64	73
	D+L (Deflection)	25	34	43	32	41	51	38	50	60	40	60	70
	L (Deflection)	25	34	43	32	41	51	38	50	60	40	60	70
23'-0"	D+L (Strength)	29	51	73	30	46	65	32	47	60	34	52	61
	D+L (Deflection)	16	23	31	22	29	37	28	37	45	34	45	54
	L (Deflection)	16	23	31	22	29	37	28	37	45	34	45	54
24'-0"	D+L (Strength)	24	42	62	26	37	54	28	37	49	29	42	50
	D+L (Deflection)	8	14	21	13	20	26	18	26	33	24	33	41
	L (Deflection)	8	14	21	13	20	26	18	26	33	24	33	41
25'-0"	D+L (Strength)	17	34	52	18	29	44	21	29	40	25	33	40
	D+L (Deflection)	1	7	13	5	11	17	10	16	23	15	22	29
	L (Deflection)	1	7	13	5	11	17	10	16	23	15	22	29

MAXIMUM UNSHORED CONSTRUCTION CLEAR SPANS													
1span	11'-1"	13'-7"	15'-11"	10'-10"	13'-3"	15'-7"	10'-7"	13'-0"	15'-3"	10'-5"	12'-9"	15'-0"	
2span	13'-5"	16'-4"	18'-5"	13'-1"	16'-0"	18'-2"	12'-10"	15'-9"	17'-10"	12'-7"	15'-6"	17'-7"	
3span	13'-10"	16'-10"	18'-8"	13'-7"	16'-7"	18'-5"	13'-4"	16'-4"	18'-2"	13'-0"	16'-0"	18'-0"	
cantilever	5'-7"	7'-2"	8'-3"	5'-6"	7'-0"	8'-2"	5'-5"	6'-11"	8'-0"	5'-4"	6'-9"	7'-11"	
cy/100sf	1.43			1.50			1.58			1.66			

13'-0"	D+L (Strength)	145	← Max. superimposed ASD dead + live load (psf) (governed by strength limitation)
	D+L (Deflection)	145	← Max. superimposed ASD dead + live load (psf) (governed by deflection limitation of L/240)
	L (Deflection)	145	← 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 | h | Total height of concrete slab, in |
| I _b | Moment of inertia for deflection per foot of deck width (in ⁴)/ft | Wc | Weight of concrete (neglecting deflection), psf |
| Sp | Section modulus for positive bending per foot of deck width, (in ³)/ft | f'c | 3000 psi |
| Sn | Section modulus for negative bending per foot of deck width, (in ³)/ft | D | Uniform dead load, psf |
| Rbe | Allowable exterior web crippling value per foot of deck, plf | L | Uniform live load, psf |
| Rbi | Allowable interior web crippling value per foot of deck, plf | | |

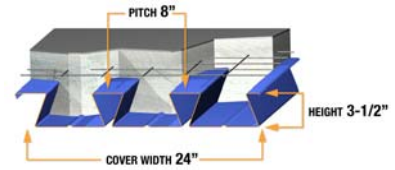
If welded wire fabric is not supplied per ACI requirements (0.00075*Ac), reduce loads by 10%. The section property table is based on 2001 AISI's Cold-Formed Steel Design Manual, 2004 Supplement. The live loads and unshored construction clear spans are based on the Steel Deck Institute's Composite Deck 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"
20	3.33	1.959	0.767	0.820	909	1042	1154	1916	2061	2193
18	4.40	2.664	1.109	1.190	1534	1748	1928	3186	3415	3622
16	5.54	3.394	1.504	1.540	2362	2676	2940	4851	5184	5485



MAXIMUM SUPERIMPOSED ASD LOADS, (psf), NO STUDS ON BEAMS													
h (Wc)		6.5 (56.3)			6.75 (58.8)			7 (61.3)			7.25 (63.8)		
Span	Load Combinations	GAGE											
		20	18	16	20	18	16	20	18	16	20	18	16
13'-0"	D+L (Strength)	181	342	273	190	361	280	199	378	286	208	395	291
	D+L (Deflection)	181	342	273	190	361	280	199	378	286	208	395	291
	L (Deflection)	181	342	273	190	361	280	199	378	286	208	395	291
14'-0"	D+L (Strength)	151	284	207	158	305	210	166	323	212	173	337	213
	D+L (Deflection)	151	284	207	158	305	210	166	323	212	173	337	213
	L (Deflection)	151	284	207	158	305	210	166	323	212	173	337	213
15'-0"	D+L (Strength)	127	238	261	133	256	280	139	275	300	146	291	322
	D+L (Deflection)	127	238	261	133	256	280	139	275	300	146	291	322
	L (Deflection)	127	238	261	133	256	280	139	275	300	146	291	322
16'-0"	D+L (Strength)	107	200	220	113	215	236	118	231	254	123	248	272
	D+L (Deflection)	107	200	220	113	215	236	118	231	254	123	248	272
	L (Deflection)	107	200	220	113	215	236	118	231	254	123	248	272
17'-0"	D+L (Strength)	91	168	186	96	182	200	100	196	215	105	210	231
	D+L (Deflection)	91	168	186	96	182	200	100	196	215	105	210	231
	L (Deflection)	91	168	186	96	182	200	100	196	215	105	210	231
18'-0"	D+L (Strength)	78	142	157	82	153	170	86	166	183	90	178	197
	D+L (Deflection)	78	142	157	82	153	170	86	166	183	90	178	197
	L (Deflection)	78	142	157	82	153	170	86	166	183	90	178	197
19'-0"	D+L (Strength)	67	120	133	70	130	144	73	140	156	77	151	168
	D+L (Deflection)	67	120	133	70	130	144	73	140	156	77	151	168
	L (Deflection)	67	120	133	70	130	144	73	140	156	77	151	168
20'-0"	D+L (Strength)	57	101	113	60	109	122	63	119	132	66	128	143
	D+L (Deflection)	57	101	113	60	109	122	63	119	132	66	128	143
	L (Deflection)	57	101	113	60	109	122	63	119	132	66	128	143
21'-0"	D+L (Strength)	49	84	95	52	92	104	54	100	112	57	108	122
	D+L (Deflection)	49	84	95	52	92	104	54	100	112	57	108	122
	L (Deflection)	49	84	95	52	92	104	54	100	112	57	108	122
22'-0"	D+L (Strength)	42	70	80	44	77	87	47	84	95	49	91	103
	D+L (Deflection)	42	70	80	44	77	87	47	84	95	49	91	103
	L (Deflection)	42	70	80	44	77	87	47	84	95	49	91	103
23'-0"	D+L (Strength)	36	58	66	38	63	73	40	70	80	42	76	87
	D+L (Deflection)	36	54	64	38	63	73	40	70	80	42	76	87
	L (Deflection)	36	54	64	38	63	73	40	70	80	42	76	87
24'-0"	D+L (Strength)	31	47	55	33	52	60	31	57	66	33	63	73
	D+L (Deflection)	31	40	49	33	49	58	31	57	66	33	63	73
	L (Deflection)	31	40	49	33	49	58	31	57	66	33	63	73
25'-0"	D+L (Strength)	19	37	44	21	42	49	23	46	55	25	51	60
	D+L (Deflection)	19	29	36	21	36	44	23	44	53	25	51	60
	L (Deflection)	19	29	36	21	36	44	23	44	53	25	51	60
MAXIMUM UNSHORED CONSTRUCTION CLEAR SPANS													
1span	10'-2"	12'-6"	14'-9"	10'-0"	12'-3"	14'-6"	9'-10"	12'-1"	14'-3"	9'-9"	12'-0"	14'-1"	
2span	12'-4"	15'-3"	17'-3"	12'-1"	15'-0"	17'-0"	11'-11"	14'-10"	16'-9"	11'-8"	14'-7"	16'-6"	
3span	12'-9"	15'-9"	17'-10"	12'-7"	15'-6"	17'-7"	12'-4"	15'-4"	17'-4"	12'-1"	15'-1"	17'-1"	
cantilever	5'-3"	6'-8"	7'-9"	5'-2"	6'-7"	7'-8"	5'-2"	6'-6"	7'-7"	5'-1"	6'-5"	7'-6"	
cy/100sf	1.74			1.81			1.89			1.97			

13'-0"	D+L (Strength)	181	← Max. superimposed ASD dead + live load (psf) (governed by strength limitation)
	D+L (Deflection)	181	← Max. superimposed ASD dead + live load (psf) (governed by deflection limitation of L/240)
	L (Deflection)	181	← 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

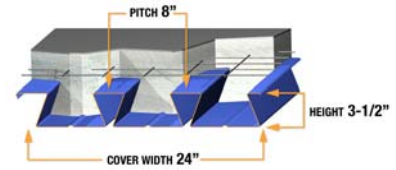
If welded wire fabric is not supplied per ACI requirements (0.00075*Ac), reduce loads by 10%. The section property table is based on 2001 AISI's Cold-Formed Steel Design Manual, 2004 Supplement. The live loads and unshored construction clear spans are based on the Steel Deck Institute's Composite Deck 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 _b	Sp	Sn	Rbe			Rbi		
					2"	3"	4"	4"	5"	6"
20	3.33	1.959	0.767	0.820	909	1042	1154	1916	2061	2193
18	4.40	2.664	1.109	1.190	1534	1748	1928	3186	3415	3622
16	5.54	3.394	1.504	1.540	2362	2676	2940	4851	5184	5485



		MAXIMUM SUPERIMPOSED ASD LOADS, (psf), NO STUDS ON BEAMS											
h (Wc)		7.5 (66.3)			7.75 (68.8)			8 (71.3)			8.25 (73.8)		
Span	Load Combinations	GAGE											
		20	18	16	20	18	16	20	18	16	20	18	16
13'-0"	D+L (Strength)	217	400	296	226	400	300	235	400	303	244	400	305
	D+L (Deflection)	217	400	296	226	400	300	235	400	303	244	400	305
	L (Deflection)	217	400	296	226	400	300	235	400	303	244	400	305
14'-0"	D+L (Strength)	181	352	400	188	366	400	196	381	400	203	395	400
	D+L (Deflection)	181	352	400	188	366	400	196	381	400	203	395	400
	L (Deflection)	181	352	400	188	366	400	196	381	400	203	395	400
15'-0"	D+L (Strength)	152	303	344	158	316	367	165	328	391	171	341	400
	D+L (Deflection)	152	303	344	158	316	367	165	328	391	171	341	400
	L (Deflection)	152	303	344	158	316	367	165	328	391	171	341	400
16'-0"	D+L (Strength)	129	264	291	134	274	311	140	285	332	145	296	353
	D+L (Deflection)	129	264	291	134	274	311	140	285	332	145	296	353
	L (Deflection)	129	264	291	134	274	311	140	285	332	145	296	353
17'-0"	D+L (Strength)	110	225	248	114	240	265	119	250	283	123	260	301
	D+L (Deflection)	110	225	248	114	240	265	119	250	283	123	260	301
	L (Deflection)	110	225	248	114	240	265	119	250	283	123	260	301
18'-0"	D+L (Strength)	94	192	211	98	205	226	102	220	242	106	229	258
	D+L (Deflection)	94	192	211	98	205	226	102	220	242	106	229	258
	L (Deflection)	94	192	211	98	205	226	102	220	242	106	229	258
19'-0"	D+L (Strength)	80	163	180	84	175	194	87	188	207	91	201	222
	D+L (Deflection)	80	163	180	84	175	194	87	188	207	91	201	222
	L (Deflection)	80	163	180	84	175	194	87	188	207	91	201	222
20'-0"	D+L (Strength)	69	138	154	72	149	166	75	160	178	78	172	190
	D+L (Deflection)	69	138	154	72	149	166	75	160	178	78	172	190
	L (Deflection)	69	138	154	72	149	166	75	160	178	78	172	190
21'-0"	D+L (Strength)	59	117	131	62	127	142	64	136	152	67	147	163
	D+L (Deflection)	59	117	131	62	127	142	64	136	152	67	147	163
	L (Deflection)	59	117	131	62	127	142	64	136	152	67	147	163
22'-0"	D+L (Strength)	51	99	112	53	107	121	55	116	130	54	125	140
	D+L (Deflection)	51	99	112	53	107	121	55	116	130	54	125	140
	L (Deflection)	51	99	112	53	107	121	55	116	130	54	125	140
23'-0"	D+L (Strength)	44	83	95	42	90	103	44	98	111	46	106	120
	D+L (Deflection)	44	83	95	42	90	103	44	98	111	46	106	120
	L (Deflection)	44	83	95	42	90	103	44	98	111	46	106	120
24'-0"	D+L (Strength)	34	69	80	36	76	87	37	82	94	39	89	102
	D+L (Deflection)	34	69	80	36	76	87	37	82	94	39	89	102
	L (Deflection)	34	69	80	36	76	87	37	82	94	39	89	102
25'-0"	D+L (Strength)	27	57	66	29	62	73	31	68	79	33	75	86
	D+L (Deflection)	27	57	66	29	62	73	31	68	79	33	75	86
	L (Deflection)	27	57	66	29	62	73	31	68	79	33	75	86
MAXIMUM UNSHORED CONSTRUCTION CLEAR SPANS													
1span	9'-8"	11'-10"	13'-11"	9'-7"	11'-8"	13'-9"	9'-5"	11'-7"	13'-8"	9'-4"	11'-5"	13'-6"	
2span	11'-6"	14'-5"	16'-4"	11'-3"	14'-2"	16'-1"	11'-1"	14'-0"	15'-10"	10'-11"	13'-10"	15'-8"	
3span	11'-11"	14'-10"	16'-10"	11'-8"	14'-8"	16'-7"	11'-6"	14'-6"	16'-5"	11'-4"	14'-3"	16'-2"	
cantilever	5'-0"	6'-4"	7'-4"	4'-11"	6'-3"	7'-3"	4'-11"	6'-2"	7'-2"	4'-10"	6'-1"	7'-1"	
cy/100sf	2.04			2.12			2.20			2.28			

13'-0"	D+L (Strength)	217	← Max. superimposed ASD dead + live load (psf) (governed by strength limitation)
	D+L (Deflection)	217	← Max. superimposed ASD dead + live load (psf) (governed by deflection limitation of L/240)
	L (Deflection)	217	← 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 | h | Total height of concrete slab, in |
| I _b | Moment of inertia for deflection per foot of deck width (in ⁴)/ft | Wc | Weight of concrete (neglecting deflection), psf |
| Sp | Section modulus for positive bending per foot of deck width, (in ³)/ft | f'c | 3000 psi |
| Sn | Section modulus for negative bending per foot of deck width, (in ³)/ft | D | Uniform dead load, psf |
| Rbe | Allowable exterior web crippling value per foot of deck, plf | L | Uniform live load, psf |
| Rbi | Allowable interior web crippling value per foot of deck, plf | | |

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