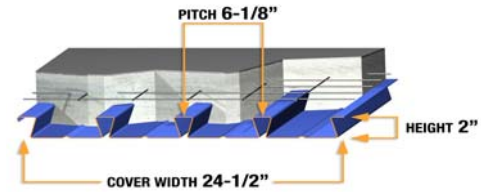


**SECTION PROPERTIES**

$f_y=40$  ksi

GAGE	Wd	I <sub>b</sub>	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 (44.4)				4.25 (47.4)				4.5 (50.4)				4.75 (53.5)			
Span	Load	GAGE															
		22	20	18	16	22	20	18	16	22	20	18	16	22	20	18	16
8'-0"	D+L (Strength)	302	317	357	400	326	342	373	400	350	368	386	400	375	393	400	400
	D+L (Deflection)	302	317	357	400	326	342	373	400	350	368	386	400	375	393	400	400
	L (Deflection)	302	317	357	400	326	342	373	400	350	368	386	400	375	393	400	400
9'-0"	D+L (Strength)	240	260	289	343	270	292	324	358	301	323	352	371	329	346	376	381
	D+L (Deflection)	240	260	289	343	270	292	324	358	301	323	352	371	329	346	376	381
	L (Deflection)	240	260	289	343	270	292	324	358	301	323	352	371	329	346	376	381
10'-0"	D+L (Strength)	184	199	222	242	207	224	250	272	232	251	280	304	258	279	311	338
	D+L (Deflection)	184	199	222	242	207	224	250	272	232	251	280	304	258	279	311	338
	L (Deflection)	184	199	222	242	207	224	250	272	232	251	280	304	258	279	311	338
11'-0"	D+L (Strength)	142	154	173	189	160	174	196	214	180	196	219	239	201	219	245	267
	D+L (Deflection)	142	154	173	189	160	174	196	214	180	196	219	239	201	219	245	267
	L (Deflection)	142	154	173	189	160	174	196	214	180	196	219	239	201	219	245	267
12'-0"	D+L (Strength)	110	120	136	149	125	137	154	169	141	154	174	190	158	172	194	212
	D+L (Deflection)	110	120	136	149	125	137	154	169	141	154	174	190	158	172	194	212
	L (Deflection)	110	120	136	149	125	137	154	169	141	154	174	190	158	172	194	212
13'-0"	D+L (Strength)	85	94	107	118	97	107	122	134	110	121	138	152	124	137	155	170
	D+L (Deflection)	85	94	107	118	97	107	122	134	110	121	138	152	124	137	155	170
	L (Deflection)	85	94	107	118	97	107	122	134	110	121	138	152	124	137	155	170
14'-0"	D+L (Strength)	65	73	84	94	75	84	96	107	86	96	110	121	97	108	124	137
	D+L (Deflection)	65	73	84	94	75	84	96	107	86	96	110	121	97	108	124	137
	L (Deflection)	65	73	84	94	75	84	96	107	86	96	110	121	97	108	124	137
15'-0"	D+L (Strength)	49	56	66	74	57	65	76	85	66	75	87	97	76	85	99	110
	D+L (Deflection)	49	56	66	74	57	65	76	85	66	75	87	97	76	85	99	110
	L (Deflection)	49	56	66	74	57	65	76	85	66	75	87	97	76	85	99	110
16'-0"	D+L (Strength)	36	42	50	57	43	49	59	67	55	58	68	77	60	66	78	88
	D+L (Deflection)	36	42	50	57	43	49	59	67	55	58	68	77	60	66	78	88
	L (Deflection)	36	42	50	57	43	49	59	67	55	58	68	77	60	66	78	88
17'-0"	D+L (Strength)	35	30	38	44	38	37	45	52	42	43	53	60	46	51	61	70
	D+L (Deflection)	33	30	38	44	38	37	45	52	42	43	53	60	46	51	61	70
	L (Deflection)	33	30	38	44	38	37	45	52	42	43	53	60	46	51	61	70
18'-0"	D+L (Strength)	26	21	27	32	28	40	33	39	31	46	40	46	34	53	47	54
	D+L (Deflection)	20	21	27	32	28	34	33	39	31	46	40	46	34	53	47	54
	L (Deflection)	20	21	27	32	28	34	33	39	31	46	40	46	34	53	47	54
19'-0"	D+L (Strength)	18	25	18	23	20	30	23	28	22	36	29	35	24	41	35	41
	D+L (Deflection)	10	14	18	23	17	22	23	28	22	31	29	35	24	41	35	41
	L (Deflection)	10	14	18	23	17	22	23	28	22	31	29	35	24	41	35	41
20'-0"	D+L (Strength)	11	18	11	15	13	23	15	19	14	27	19	24	16	31	24	30
	D+L (Deflection)	2	5	10	15	8	11	15	19	14	19	19	24	16	27	24	30
	L (Deflection)	2	5	10	15	8	11	15	19	14	19	19	24	16	27	24	30

**MAXIMUM UNSHORED CONSTRUCTION CLEAR SPANS**

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

8'-0"	D+L (Strength)	302	← <b>Max. superimposed ASD dead + live load (psf) (governed by strength limitation)</b>
	D+L (Deflection)	302	← <b>Max. superimposed ASD dead + live load (psf) (governed by deflection limitation of L/240)</b>
	L (Deflection)	302	← <b>Max. superimposed ASD live load (psf) (governed by deflection limitation of L/360)</b>
			← <b>Vertical load span (center to center spacing)</b>

- 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

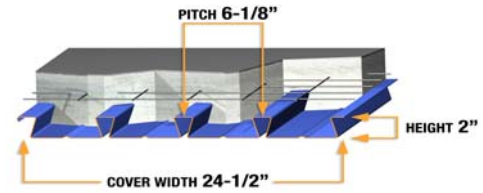
If welded wire fabric is not supplied per ACI requirements (0.00075\*Ac), reduce loads by 10%. The section property table is based on 2001 AISI's Cold-Formed Steel Design Manual, 2004 Supplement. The live loads and unshored construction clear spans are based on the Steel Deck Institute's Composite Deck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

**145 PCF NORMAL WEIGHT CONCRETE TABLE**

SECTION PROPERTIES

fy=40 ksi

GAGE	Wd	I <sub>b</sub>	Sp	Sn	Rbe			Rbi		
					2"	3"	4"	4"	5"	6"
22	2.23	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)	Load	GAGE															
		5 (56.5)				5.25 (59.5)				5.5 (62.5)				5.75 (65.5)			
Span	Combinations	22	20	18	16	22	20	18	16	22	20	18	16	22	20	18	16
8'-0"	D+L (Strength)	399	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
	D+L (Deflection)	399	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
	L (Deflection)	399	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
9'-0"	D+L (Strength)	351	368	400	400	372	391	400	400	393	400	400	400	400	400	400	400
	D+L (Deflection)	351	368	400	400	372	391	400	400	393	400	400	400	400	400	400	400
	L (Deflection)	351	368	400	400	372	391	400	400	393	400	400	400	400	400	400	400
10'-0"	D+L (Strength)	285	309	344	373	314	340	378	400	343	368	400	400	364	388	400	400
	D+L (Deflection)	285	309	344	373	314	340	378	400	343	368	400	400	364	388	400	400
	L (Deflection)	285	309	344	373	314	340	378	400	343	368	400	400	364	388	400	400
11'-0"	D+L (Strength)	223	242	271	295	246	267	299	326	270	293	328	357	289	321	358	390
	D+L (Deflection)	223	242	271	295	246	267	299	326	270	293	328	357	289	321	358	390
	L (Deflection)	223	242	271	295	246	267	299	326	270	293	328	357	289	321	358	390
12'-0"	D+L (Strength)	176	192	216	236	194	212	239	261	214	234	263	287	232	256	287	314
	D+L (Deflection)	176	192	216	236	194	212	239	261	214	234	263	287	232	256	287	314
	L (Deflection)	176	192	216	236	194	212	239	261	214	234	263	287	232	256	287	314
13'-0"	D+L (Strength)	139	153	173	190	154	169	192	210	170	187	211	232	187	205	232	255
	D+L (Deflection)	139	153	173	190	154	169	192	210	170	187	211	232	187	205	232	255
	L (Deflection)	139	153	173	190	154	169	192	210	170	187	211	232	187	205	232	255
14'-0"	D+L (Strength)	110	121	139	153	122	135	154	170	136	150	171	189	150	165	188	208
	D+L (Deflection)	110	121	139	153	122	135	154	170	136	150	171	189	150	165	188	208
	L (Deflection)	110	121	139	153	122	135	154	170	136	150	171	189	150	165	188	208
15'-0"	D+L (Strength)	86	96	111	124	89	108	124	138	95	120	138	153	101	133	153	170
	D+L (Deflection)	86	96	111	124	89	108	124	138	95	120	138	153	101	133	153	170
	L (Deflection)	86	96	111	124	89	108	124	138	95	120	138	153	101	133	153	170
16'-0"	D+L (Strength)	65	76	89	99	70	85	100	112	74	96	112	125	79	110	124	138
	D+L (Deflection)	65	76	89	99	70	85	100	112	74	96	112	125	79	110	124	138
	L (Deflection)	65	76	89	99	70	85	100	112	74	96	112	125	79	110	124	138
17'-0"	D+L (Strength)	50	72	70	79	54	77	79	90	57	83	89	101	61	88	100	113
	D+L (Deflection)	50	72	70	79	54	77	79	90	57	83	89	101	61	88	100	113
	L (Deflection)	50	72	70	79	54	77	79	90	57	83	89	101	61	88	100	113
18'-0"	D+L (Strength)	37	57	54	63	40	61	62	72	43	66	71	81	46	70	80	91
	D+L (Deflection)	37	57	54	63	40	61	62	72	43	66	71	81	46	70	80	91
	L (Deflection)	37	57	54	63	40	61	62	72	43	66	71	81	46	70	80	91
19'-0"	D+L (Strength)	26	44	41	48	29	48	48	56	31	51	73	64	33	55	82	73
	D+L (Deflection)	26	44	41	48	29	48	48	56	31	51	73	64	33	55	82	73
	L (Deflection)	26	44	41	48	29	48	48	56	31	51	73	64	33	55	82	73
20'-0"	D+L (Strength)	17	33	46	36	19	36	53	43	21	39	60	50	22	42	67	57
	D+L (Deflection)	17	33	46	36	19	36	53	43	21	39	60	50	22	42	67	57
	L (Deflection)	17	33	46	36	19	36	53	43	21	39	60	50	22	42	67	57

MAXIMUM UNSHORED CONSTRUCTION CLEAR SPANS

1span	5'-9"	6'-7"	7'-9"	8'-11"	5'-7"	6'-5"	7'-7"	8'-9"	5'-6"	6'-4"	7'-6"	8'-7"	5'-5"	6'-3"	7'-5"	8'-6"
2span	7'-6"	8'-4"	9'-9"	11'-0"	7'-4"	8'-2"	9'-7"	10'-9"	7'-3"	8'-0"	9'-5"	10'-7"	7'-1"	7'-10"	9'-3"	10'-5"
3span	7'-9"	8'-7"	10'-1"	11'-4"	7'-7"	8'-5"	9'-11"	11'-2"	7'-5"	8'-3"	9'-9"	10'-11"	7'-4"	8'-1"	9'-7"	10'-9"
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	1.44				1.52				1.60				1.67			

8'-0"	D+L (Strength)	399	← Max. superimposed ASD dead + live load (psf) (governed by strength limitation)
	D+L (Deflection)	399	← Max. superimposed ASD dead + live load (psf) (governed by deflection limitation of L/240)
	L (Deflection)	399	← 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

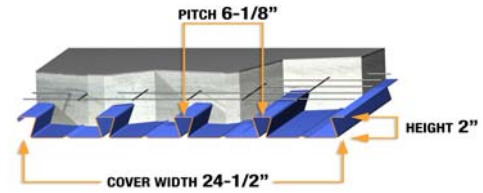
If welded wire fabric is not supplied per ACI requirements (0.00075\*Ac), reduce loads by 10%. The section property table is based on 2001 AISI's Cold-Formed Steel Design Manual, 2004 Supplement. The live loads and unshored construction clear spans are based on the Steel Deck Institute's Composite Deck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

145 PCF NORMAL WEIGHT CONCRETE TABLE

SECTION PROPERTIES

fy=40 ksi

GAGE	Wd	I <sub>b</sub>	Sp	Sn	Rbe			Rbi		
					2"	3"	4"	4"	5"	6"
22	2.23	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 (68.6)				6.25 (71.6)				6.5 (74.6)				6.75 (77.6)			
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)	384	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
	D+L (Deflection)	384	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
	L (Deflection)	384	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
11'-0"	D+L (Strength)	305	349	390	400	321	378	400	400	337	400	400	400	353	400	400	400
	D+L (Deflection)	305	349	390	400	321	378	400	400	337	400	400	400	353	400	400	400
	L (Deflection)	305	349	390	400	321	378	400	400	337	400	400	400	353	400	400	400
12'-0"	D+L (Strength)	245	279	313	342	258	303	340	372	271	328	368	400	284	353	397	400
	D+L (Deflection)	245	279	313	342	258	303	340	372	271	328	368	400	284	353	397	400
	L (Deflection)	245	279	313	342	258	303	340	372	271	328	368	400	284	353	397	400
13'-0"	D+L (Strength)	198	224	254	278	209	244	276	303	220	265	299	328	230	286	323	354
	D+L (Deflection)	198	224	254	278	209	244	276	303	220	265	299	328	230	286	323	354
	L (Deflection)	198	224	254	278	209	244	276	303	220	265	299	328	230	286	323	354
14'-0"	D+L (Strength)	161	181	206	227	143	198	225	248	151	215	244	269	158	233	265	291
	D+L (Deflection)	161	181	206	227	143	198	225	248	151	215	244	269	158	233	265	291
	L (Deflection)	161	181	206	227	143	198	225	248	151	215	244	269	158	233	265	291
15'-0"	D+L (Strength)	107	146	168	186	113	160	184	204	119	175	200	222	125	169	217	241
	D+L (Deflection)	107	146	168	186	113	160	184	204	119	175	200	222	125	169	217	241
	L (Deflection)	107	146	168	186	113	160	184	204	119	175	200	222	125	169	217	241
16'-0"	D+L (Strength)	84	117	137	153	89	123	150	167	94	130	164	183	98	137	179	199
	D+L (Deflection)	84	117	137	153	89	123	150	167	94	130	164	183	98	137	179	199
	L (Deflection)	84	117	137	153	89	123	150	167	94	130	164	183	98	137	179	199
17'-0"	D+L (Strength)	65	94	111	125	69	99	122	138	72	105	134	151	76	110	147	165
	D+L (Deflection)	65	94	111	125	69	99	122	138	72	105	134	151	76	110	147	165
	L (Deflection)	65	94	111	125	69	99	122	138	72	105	134	151	76	110	147	165
18'-0"	D+L (Strength)	49	75	89	101	52	79	119	112	54	83	131	124	57	88	141	136
	D+L (Deflection)	49	75	89	101	52	79	119	112	54	83	131	124	57	88	141	136
	L (Deflection)	49	75	89	101	52	79	119	112	54	83	131	124	57	88	141	136
19'-0"	D+L (Strength)	35	58	90	82	37	62	100	91	39	65	109	101	41	69	117	111
	D+L (Deflection)	35	58	90	82	37	62	100	91	39	65	109	101	41	69	117	111
	L (Deflection)	35	58	90	82	37	62	100	91	39	65	109	101	41	69	117	111
20'-0"	D+L (Strength)	24	45	75	65	25	47	83	73	26	50	91	103	28	53	96	113
	D+L (Deflection)	24	45	75	65	25	47	83	73	26	50	91	103	28	53	96	113
	L (Deflection)	24	45	75	65	25	47	83	73	26	50	91	103	28	53	96	113

MAXIMUM UNSHORED CONSTRUCTION CLEAR SPANS

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

145 PCF NORMAL WEIGHT CONCRETE TABLE