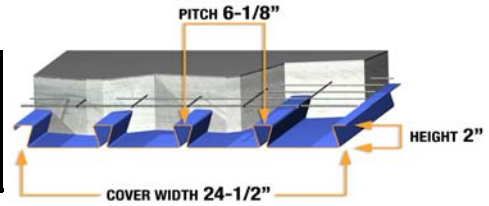


SECTION PROPERTIES

fy=40 ksi

GAGE	Wd	I _D	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)	Load	4 (44.4)				4.25 (47.4)				4.5 (50.4)				4.75 (53.5)			
		GAGE															
Span	Combinations	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	343	372	400	351	368	386	400	375	394	397	400
	D+L (Deflection)	302	317	357	400	326	343	372	400	351	368	386	400	375	394	397	400
	L (Deflection)	302	317	357	400	326	343	372	400	351	368	386	400	375	394	397	400
9'-0"	D+L (Strength)	240	259	288	343	270	291	324	358	301	324	352	370	329	346	376	381
	D+L (Deflection)	240	259	288	343	270	291	324	358	301	324	352	370	329	346	376	381
	L (Deflection)	240	259	288	343	270	291	324	358	301	324	352	370	329	346	376	381
10'-0"	D+L (Strength)	183	199	222	242	207	224	250	272	231	251	279	304	257	279	311	338
	D+L (Deflection)	183	199	222	242	207	224	250	272	231	251	279	304	257	279	311	338
	L (Deflection)	183	199	222	242	207	224	250	272	231	251	279	304	257	279	311	338
11'-0"	D+L (Strength)	141	154	173	189	160	174	196	213	180	196	219	239	201	218	244	266
	D+L (Deflection)	141	154	173	189	160	174	196	213	180	196	219	239	201	218	244	266
	L (Deflection)	141	154	173	189	160	174	196	213	180	196	219	239	201	218	244	266
12'-0"	D+L (Strength)	110	120	136	149	125	136	154	169	141	154	173	190	157	172	194	212
	D+L (Deflection)	110	120	136	149	125	136	154	169	141	154	173	190	157	172	194	212
	L (Deflection)	110	120	136	149	125	136	154	169	141	154	173	190	157	172	194	212
13'-0"	D+L (Strength)	85	94	107	118	97	107	122	134	110	121	138	152	124	136	155	170
	D+L (Deflection)	85	94	107	118	97	107	122	134	110	121	138	152	124	136	155	170
	L (Deflection)	85	94	107	118	97	107	122	134	110	121	138	152	124	136	155	170
14'-0"	D+L (Strength)	65	73	84	94	75	84	96	107	86	95	110	121	97	108	124	137
	D+L (Deflection)	65	73	84	94	75	84	96	107	86	95	110	121	97	108	124	137
	L (Deflection)	65	73	84	94	75	84	96	107	86	95	110	121	97	108	124	137
15'-0"	D+L (Strength)	49	56	65	74	57	65	76	85	66	75	87	97	76	85	98	110
	D+L (Deflection)	49	56	65	74	57	65	76	85	66	75	87	97	76	85	98	110
	L (Deflection)	49	56	65	74	57	65	76	85	66	75	87	97	76	85	98	110
16'-0"	D+L (Strength)	36	42	50	57	50	49	59	67	55	57	68	77	59	66	78	88
	D+L (Deflection)	36	42	50	57	50	49	59	67	55	57	68	77	59	66	78	88
	L (Deflection)	36	42	50	57	50	49	59	67	55	57	68	77	59	66	78	88
17'-0"	D+L (Strength)	35	30	38	44	38	37	45	52	42	43	53	60	45	66	61	69
	D+L (Deflection)	32	30	38	44	38	37	45	52	42	43	53	60	45	66	61	69
	L (Deflection)	32	30	38	44	38	37	45	52	42	43	53	60	45	66	61	69
18'-0"	D+L (Strength)	25	34	27	32	28	39	33	39	31	46	40	46	34	52	47	54
	D+L (Deflection)	20	24	27	32	28	34	33	39	31	46	40	46	34	52	47	54
	L (Deflection)	20	24	27	32	28	34	33	39	31	46	40	46	34	52	47	54
19'-0"	D+L (Strength)	17	25	18	23	20	30	23	28	22	36	29	35	24	40	35	41
	D+L (Deflection)	10	14	18	23	17	22	23	28	22	31	29	35	24	40	35	41
	L (Deflection)	10	14	18	23	17	22	23	28	22	31	29	35	24	40	35	41
20'-0"	D+L (Strength)	11	18	11	15	12	23	15	19	14	27	34	24	15	30	40	30
	D+L (Deflection)	2	5	10	15	8	11	15	19	14	19	26	24	15	27	36	30
	L (Deflection)	2	5	10	15	8	11	15	19	14	19	26	24	15	27	36	30

MAXIMUM UNSHORED CONSTRUCTION CLEAR SPANS

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

8'-0"	D+L (Strength)	302	← Max. superimposed ASD dead + live load (psf) (governed by strength limitation)
	D+L (Deflection)	302	← Max. superimposed ASD dead + live load (psf) (governed by deflection limitation of L/240)
	L (Deflection)	302	← 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

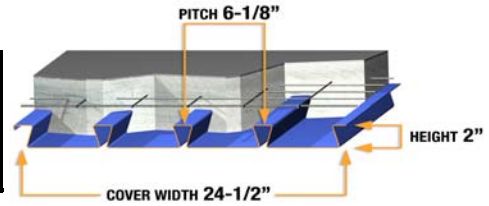
If welded wire fabric is not supplied per ACI requirements (0.00075*Ac), reduce loads by 10%. The section property table is based on 2001 AISI's Cold-Formed Steel Design Manual, 2004 Supplement. The live loads and unshored construction clear spans are based on the Steel Deck Institute's Composite Deck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

145 PCF NORMAL WEIGHT CONCRETE TABLE

SECTION PROPERTIES

fy=40 ksi

GAGE	Wd	I _b	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)	Load	5 (56.5)				5.25 (59.5)				5.5 (62.5)				5.75 (65.5)			
		GAGE															
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	308	343	373	313	339	378	400	341	368	400	400	361	388	400	400
	D+L (Deflection)	285	308	343	373	313	339	378	400	341	368	400	400	361	388	400	400
	L (Deflection)	285	308	343	373	313	339	378	400	341	368	400	400	361	388	400	400
11'-0"	D+L (Strength)	223	242	271	295	246	267	299	325	270	293	328	357	287	320	358	390
	D+L (Deflection)	223	242	271	295	246	267	299	325	270	293	328	357	287	320	358	390
	L (Deflection)	223	242	271	295	246	267	299	325	270	293	328	357	287	320	358	390
12'-0"	D+L (Strength)	175	192	216	236	194	212	238	261	214	233	262	287	230	255	287	314
	D+L (Deflection)	175	192	216	236	194	212	238	261	214	233	262	287	230	255	287	314
	L (Deflection)	175	192	216	236	194	212	238	261	214	233	262	287	230	255	287	314
13'-0"	D+L (Strength)	139	152	173	190	154	169	191	210	170	187	211	232	186	205	232	254
	D+L (Deflection)	139	152	173	190	154	169	191	210	170	187	211	232	186	205	232	254
	L (Deflection)	139	152	173	190	154	169	191	210	170	187	211	232	186	205	232	254
14'-0"	D+L (Strength)	109	121	138	153	122	135	154	170	135	150	171	188	127	165	188	207
	D+L (Deflection)	109	121	138	153	122	135	154	170	135	150	171	188	127	165	188	207
	L (Deflection)	109	121	138	153	122	135	154	170	135	150	171	188	127	165	188	207
15'-0"	D+L (Strength)	82	96	111	123	88	108	124	138	94	120	138	153	100	133	153	169
	D+L (Deflection)	82	96	111	123	88	108	124	138	94	120	138	153	100	133	153	169
	L (Deflection)	82	96	111	123	88	108	124	138	94	120	138	153	100	133	153	169
16'-0"	D+L (Strength)	64	75	88	99	69	85	100	112	74	102	111	125	78	109	124	138
	D+L (Deflection)	64	75	88	99	69	85	100	112	74	102	111	125	78	109	124	138
	L (Deflection)	64	75	88	99	69	85	100	112	74	102	111	125	78	109	124	138
17'-0"	D+L (Strength)	49	71	70	79	53	77	79	90	57	82	89	101	60	88	100	112
	D+L (Deflection)	49	71	70	79	53	77	79	90	57	82	89	101	60	88	100	112
	L (Deflection)	49	71	70	79	53	77	79	90	57	82	89	101	60	88	100	112
18'-0"	D+L (Strength)	37	57	54	62	40	61	62	71	42	65	71	81	45	70	80	91
	D+L (Deflection)	37	57	54	62	40	61	62	71	42	65	71	81	45	70	80	91
	L (Deflection)	37	57	54	62	40	61	62	71	42	65	71	81	45	70	80	91
19'-0"	D+L (Strength)	26	44	41	48	28	47	65	56	30	51	73	64	33	54	81	72
	D+L (Deflection)	26	44	41	48	28	47	65	56	30	51	73	64	33	54	81	72
	L (Deflection)	26	44	41	48	28	47	65	56	30	51	73	64	33	54	81	72
20'-0"	D+L (Strength)	17	33	46	36	19	36	53	43	20	39	59	50	22	41	67	57
	D+L (Deflection)	17	33	46	36	19	36	53	43	20	39	59	50	22	41	67	57
	L (Deflection)	17	33	46	36	19	36	53	43	20	39	59	50	22	41	67	57

MAXIMUM UNSHORED CONSTRUCTION CLEAR SPANS

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

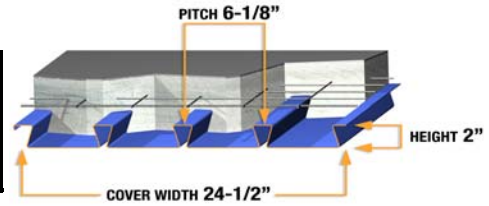
If welded wire fabric is not supplied per ACI requirements (0.00075*Ac), reduce loads by 10%. The section property table is based on 2001 AISI's Cold-Formed Steel Design Manual, 2004 Supplement. The live loads and unshored construction clear spans are based on the Steel Deck Institute's Composite Deck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

145 PCF NORMAL WEIGHT CONCRETE TABLE

SECTION PROPERTIES

fy=40 ksi

GAGE	Wd	I _D	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 (68.6)	6.25 (71.6)				6.5 (74.6)				6.75 (77.6)							
		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)	381	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
	D+L (Deflection)	381	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
	L (Deflection)	381	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
11'-0"	D+L (Strength)	303	348	389	400	319	377	400	400	335	400	400	400	351	400	400	400
	D+L (Deflection)	303	348	389	400	319	377	400	400	335	400	400	400	351	400	400	400
	L (Deflection)	303	348	389	400	319	377	400	400	335	400	400	400	351	400	400	400
12'-0"	D+L (Strength)	243	278	313	342	256	302	340	371	269	327	367	400	282	351	396	400
	D+L (Deflection)	243	278	313	342	256	302	340	371	269	327	367	400	282	351	396	400
	L (Deflection)	243	278	313	342	256	302	340	371	269	327	367	400	282	351	396	400
13'-0"	D+L (Strength)	197	224	253	278	207	244	275	302	218	264	298	327	228	285	322	354
	D+L (Deflection)	197	224	253	278	207	244	275	302	218	264	298	327	228	285	322	354
	L (Deflection)	197	224	253	278	207	244	275	302	218	264	298	327	228	285	322	354
14'-0"	D+L (Strength)	134	181	206	227	142	197	225	247	149	215	244	269	157	232	264	291
	D+L (Deflection)	134	181	206	227	142	197	225	247	149	215	244	269	157	232	264	291
	L (Deflection)	134	181	206	227	142	197	225	247	149	215	244	269	157	232	264	291
15'-0"	D+L (Strength)	106	146	168	186	112	160	183	203	118	160	200	221	124	168	217	240
	D+L (Deflection)	106	146	168	186	112	160	183	203	118	160	200	221	124	168	217	240
	L (Deflection)	106	146	168	186	112	160	183	203	118	160	200	221	124	168	217	240
16'-0"	D+L (Strength)	83	116	136	152	88	122	150	167	93	129	164	183	97	136	178	199
	D+L (Deflection)	83	116	136	152	88	122	150	167	93	129	164	183	97	136	178	199
	L (Deflection)	83	116	136	152	88	122	150	167	93	129	164	183	97	136	178	199
17'-0"	D+L (Strength)	64	93	111	125	68	98	122	137	71	104	134	150	75	109	146	164
	D+L (Deflection)	64	93	111	125	68	98	122	137	71	104	134	150	75	109	146	164
	L (Deflection)	64	93	111	125	68	98	122	137	71	104	134	150	75	109	146	164
18'-0"	D+L (Strength)	48	74	109	101	51	78	119	112	54	83	130	124	57	87	140	135
	D+L (Deflection)	48	74	109	101	51	78	119	112	54	83	130	124	57	87	140	135
	L (Deflection)	48	74	109	101	51	78	119	112	54	83	130	124	57	87	140	135
19'-0"	D+L (Strength)	35	58	90	81	37	61	99	91	39	65	109	101	41	68	116	111
	D+L (Deflection)	35	58	90	81	37	61	99	91	39	65	109	101	41	68	116	111
	L (Deflection)	35	58	90	81	37	61	99	91	39	65	109	101	41	68	116	111
20'-0"	D+L (Strength)	23	44	75	65	25	47	83	93	26	49	90	103	27	52	95	112
	D+L (Deflection)	23	44	75	65	25	47	83	93	26	49	90	103	27	52	95	112
	L (Deflection)	23	44	75	65	25	47	83	93	26	49	90	103	27	52	95	112

MAXIMUM UNSHORED CONSTRUCTION CLEAR SPANS

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

145 PCF NORMAL WEIGHT CONCRETE TABLE