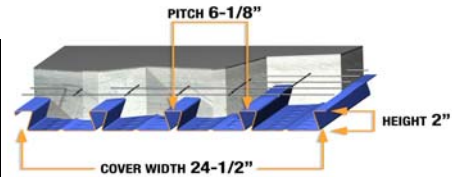


SECTION PROPERTIES

fy=40 ksi

GAGE	Wd	I _b	S _p	S _n	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



SIMPLE SPAN - MAXIMUM SUPERIMPOSED ASD LOADS, (psf), NO STUDS ON BEAMS																	
h (Wc)		4" (33.67)				4.25" (35.97)				4.5" (38.26)				4.75" (40.55)			
Span	Load Combinations	GAGE															
		22	20	18	16	22	20	18	16	22	20	18	16	22	20	18	16
8' - 0"	D+L (Strength)	226	286	397	400	247	312	400	400	268	339	400	400	289	366	400	400
	D+L (Deflection)	226	286	397	400	247	312	400	400	268	339	400	400	289	366	400	400
	L (Deflection)	226	286	397	400	247	312	400	400	268	339	400	400	289	366	400	400
9' - 0"	D+L (Strength)	176	225	276	380	192	246	289	400	209	268	300	400	225	289	400	400
	D+L (Deflection)	176	225	276	380	192	246	289	400	209	268	300	400	225	289	400	400
	L (Deflection)	176	225	276	380	192	246	289	400	209	268	300	400	225	289	400	400
10' - 0"	D+L (Strength)	140	182	282	275	153	199	309	288	166	216	336	300	179	234	363	310
	D+L (Deflection)	140	182	282	275	153	199	309	288	166	216	336	300	179	234	363	310
	L (Deflection)	140	182	265	275	153	199	309	288	166	216	336	300	179	234	363	310
11' - 0"	D+L (Strength)	113	149	229	315	123	163	251	352	134	178	273	385	145	192	295	400
	D+L (Deflection)	113	149	229	291	123	163	251	346	134	178	273	385	145	192	295	400
	L (Deflection)	113	149	199	219	123	163	234	258	134	178	273	301	145	192	295	348
12' - 0"	D+L (Strength)	92	124	189	257	101	136	207	287	110	148	225	319	119	160	244	346
	D+L (Deflection)	92	124	189	215	101	136	207	257	110	148	225	304	119	160	244	346
	L (Deflection)	92	124	153	169	101	136	180	199	110	148	210	231	119	160	244	268
13' - 0"	D+L (Strength)	76	103	158	212	83	112	173	237	91	122	188	265	99	133	204	291
	D+L (Deflection)	76	103	144	161	83	112	173	194	91	122	188	230	99	133	204	271
	L (Deflection)	76	103	121	133	83	112	142	156	91	122	166	182	99	133	192	211
14' - 0"	D+L (Strength)	63	85	133	176	70	94	145	198	76	102	158	221	82	111	172	246
	D+L (Deflection)	63	85	108	121	70	94	131	147	76	102	157	176	82	111	172	208
	L (Deflection)	63	85	97	106	70	94	114	125	76	102	133	146	82	111	153	169
15' - 0"	D+L (Strength)	53	71	113	147	58	78	123	166	63	86	135	186	69	93	146	207
	D+L (Deflection)	53	69	80	92	58	78	99	112	63	86	120	135	69	93	143	161
	L (Deflection)	53	69	79	87	58	78	92	102	63	86	108	119	69	93	125	137
16' - 0"	D+L (Strength)	44	60	96	124	48	66	106	139	53	72	115	157	57	78	125	175
	D+L (Deflection)	44	50	60	69	48	63	75	85	53	72	91	104	57	78	110	124
	L (Deflection)	44	50	60	69	48	63	75	84	53	72	89	98	57	78	103	113
17' - 0"	D+L (Strength)	36	51	82	104	40	56	91	118	44	61	99	133	43	66	108	148
	D+L (Deflection)	31	36	44	51	40	46	56	64	44	58	69	79	43	66	84	96
	L (Deflection)	31	36	44	51	40	46	56	64	44	58	69	79	43	66	84	94
18' - 0"	D+L (Strength)	26	43	71	88	29	47	78	100	32	52	86	113	35	56	93	126
	D+L (Deflection)	20	24	31	37	28	33	41	48	32	43	52	60	35	54	64	74
	L (Deflection)	20	24	31	37	28	33	41	48	32	43	52	60	35	54	64	74
19' - 0"	D+L (Strength)	21	36	61	74	23	40	68	84	26	44	74	96	28	43	81	108
	D+L (Deflection)	12	15	21	26	18	22	29	35	26	30	38	45	28	39	48	56
	L (Deflection)	12	15	21	26	18	22	29	35	26	30	38	45	28	39	48	56
20' - 0"	D+L (Strength)	16	26	53	62	18	29	59	71	20	33	64	81	22	36	70	92
	D+L (Deflection)	5	8	12	17	10	14	19	24	16	20	26	32	22	27	35	42
	L (Deflection)	5	8	12	17	10	14	19	24	16	20	26	32	22	27	35	42
MAXIMUM UNSHORED CONSTRUCTION CLEAR SPANS																	
1span	6' - 11"	7' - 11"	9' - 5"	10' - 10"	6' - 9"	7' - 9"	9' - 3"	10' - 7"	6' - 7"	7' - 7"	9' - 0"	10' - 4"	6' - 5"	7' - 5"	8' - 10"	10' - 2"	
2span	8' - 11"	9' - 10"	11' - 7"	13' - 0"	8' - 9"	9' - 8"	11' - 4"	12' - 9"	8' - 7"	9' - 6"	11' - 1"	12' - 6"	8' - 5"	9' - 4"	10' - 11"	12' - 3"	
3span	9' - 3"	10' - 2"	12' - 0"	13' - 5"	9' - 0"	10' - 0"	11' - 9"	13' - 2"	8' - 10"	9' - 9"	11' - 6"	12' - 11"	8' - 8"	9' - 7"	11' - 4"	12' - 8"	
cantilever	2' - 9"	3' - 3"	4' - 2"	5' - 0"	2' - 9"	3' - 3"	4' - 2"	4' - 11"	2' - 8"	3' - 2"	4' - 1"	4' - 10"	2' - 8"	3' - 2"	4' - 0"	4' - 9"	
cy/100sf	1.13				1.21				1.29				1.37				

8' - 0"	D+L (Strength)	226	← Max. superimposed ASD factored dead + live load (psf) (governed by strength limitation)
	D+L (Deflection)	226	← Max. superimposed ASD unfactored dead + live load (psf) (governed by deflection limitation of L/240)
	L (Deflection)	226	← Max. superimposed ASD unfactored 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
- S_p Section modulus for positive bending per foot of deck width, (in³)/ft
- S_n Section modulus for negative bending per foot of deck width, (in³)/ft
- f_c 4000 psi

- 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
- D Uniform dead load, psf
- L Uniform live load, psf

Construction spans shown based on 1.5" exterior bearing and 3" interior bearing width.

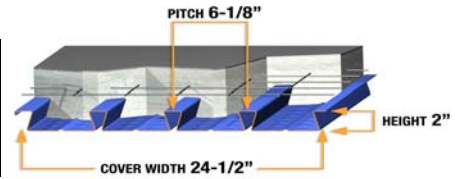
If welded wire fabric is not supplied per ACI requirements (0.00075"Ac), reduce loads by 10%. The section property table is based on 2001 AISI's Cold-Formed Steel Design Manual, 2004 Supplement. The live loads and unshored construction clear spans are based on the Steel Deck Institute's Composite Deck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

110 PCF CONCRETE

SECTION PROPERTIES

fy=40 ksi

GAGE	Wd	I _b	S _p	S _n	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



SIMPLE SPAN - MAXIMUM SUPERIMPOSED ASD LOADS, (psf), NO STUDS ON BEAMS																	
h (Wc)		5" (42.84)				5.25" (45.13)				5.5" (47.42)				5.75" (49.72)			
Span	Load Combinations	GAGE															
		22	20	18	16	22	20	18	16	22	20	18	16	22	20	18	16
8' - 0"	D+L (Strength)	311	394	400	400	333	400	400	400	355	400	400	400	377	400	400	400
	D+L (Deflection)	311	394	400	400	333	400	400	400	355	400	400	400	377	400	400	400
	L (Deflection)	311	394	400	400	333	400	400	400	355	400	400	400	377	400	400	400
9' - 0"	D+L (Strength)	242	311	400	400	259	333	400	400	277	356	400	400	294	378	400	400
	D+L (Deflection)	242	311	400	400	259	333	400	400	277	356	400	400	294	378	400	400
	L (Deflection)	242	311	400	400	259	333	400	400	277	356	400	400	294	378	400	400
10' - 0"	D+L (Strength)	193	252	391	400	207	270	400	400	221	288	400	400	235	306	400	400
	D+L (Deflection)	193	252	391	400	207	270	400	400	221	288	400	400	235	306	400	400
	L (Deflection)	193	252	391	400	207	270	400	400	221	288	400	400	235	306	400	400
11' - 0"	D+L (Strength)	156	207	318	400	168	222	341	400	179	237	364	400	190	252	388	400
	D+L (Deflection)	156	207	318	400	168	222	341	400	179	237	364	400	190	252	388	400
	L (Deflection)	156	207	318	399	168	222	341	400	179	237	364	400	190	252	388	400
12' - 0"	D+L (Strength)	128	173	262	373	138	185	282	400	147	198	301	400	156	211	320	400
	D+L (Deflection)	128	173	262	373	138	185	282	400	147	198	301	400	156	211	320	400
	L (Deflection)	128	173	262	308	138	185	282	351	147	198	301	398	156	211	320	400
13' - 0"	D+L (Strength)	106	143	219	313	114	153	235	336	122	164	252	360	130	175	268	383
	D+L (Deflection)	106	143	219	313	114	153	235	336	122	164	252	360	130	175	268	383
	L (Deflection)	106	143	219	242	114	153	235	276	122	164	252	313	130	175	268	354
14' - 0"	D+L (Strength)	89	119	185	266	95	128	199	286	102	137	213	306	109	146	227	326
	D+L (Deflection)	89	119	185	243	95	128	199	282	102	137	213	306	109	146	227	326
	L (Deflection)	89	119	176	194	95	128	199	221	102	137	213	251	109	146	227	283
15' - 0"	D+L (Strength)	74	100	158	228	80	108	169	245	86	115	181	262	92	123	193	279
	D+L (Deflection)	74	100	158	189	80	108	169	220	86	115	181	254	92	123	193	279
	L (Deflection)	74	100	143	158	80	108	164	180	86	115	181	204	92	123	193	230
16' - 0"	D+L (Strength)	62	85	135	194	67	91	145	211	72	98	155	226	71	104	166	241
	D+L (Deflection)	62	85	131	147	67	91	145	172	72	98	155	200	71	104	166	230
	L (Deflection)	62	85	118	130	67	91	135	148	72	98	153	168	71	104	166	190
17' - 0"	D+L (Strength)	47	72	116	165	51	77	125	183	55	83	134	197	58	89	143	210
	D+L (Deflection)	47	72	101	115	51	77	120	136	55	83	134	158	58	89	143	183
	L (Deflection)	47	72	98	108	51	77	112	123	55	83	128	140	58	89	143	158
18' - 0"	D+L (Strength)	38	61	101	141	41	66	108	157	45	65	116	172	48	70	124	184
	D+L (Deflection)	38	61	78	89	41	66	93	106	45	65	110	125	48	70	124	145
	L (Deflection)	38	61	78	89	41	66	93	104	45	65	108	118	48	70	121	133
19' - 0"	D+L (Strength)	31	47	87	121	34	51	94	134	36	55	101	148	39	59	108	161
	D+L (Deflection)	31	47	59	69	34	51	72	83	36	55	86	99	39	59	101	116
	L (Deflection)	31	47	59	69	34	51	72	83	36	55	86	99	39	59	101	113
20' - 0"	D+L (Strength)	25	39	76	103	27	42	82	115	29	46	88	128	32	49	94	141
	D+L (Deflection)	25	36	44	52	27	42	55	64	29	46	67	77	32	49	79	91
	L (Deflection)	25	36	44	52	27	42	55	64	29	46	67	77	32	49	79	91
MAXIMUM UNSHORED CONSTRUCTION CLEAR SPANS																	
1span	6' - 4"	7' - 3"	8' - 8"	9' - 11"	6' - 3"	7' - 2"	8' - 6"	9' - 9"	6' - 1"	7' - 0"	8' - 4"	9' - 6"	6' - 0"	6' - 11"	8' - 2"	9' - 4"	
2span	8' - 3"	9' - 2"	10' - 9"	12' - 0"	8' - 1"	9' - 0"	10' - 6"	11' - 10"	8' - 0"	8' - 10"	10' - 5"	11' - 8"	7' - 10"	8' - 8"	10' - 3"	11' - 6"	
3span	8' - 6"	9' - 5"	11' - 1"	12' - 5"	8' - 5"	9' - 3"	10' - 11"	12' - 3"	8' - 3"	9' - 1"	10' - 9"	12' - 0"	8' - 1"	9' - 0"	10' - 7"	11' - 10"	
cantilever	2' - 8"	3' - 1"	3' - 11"	4' - 8"	2' - 7"	3' - 1"	3' - 11"	4' - 7"	2' - 7"	3' - 0"	3' - 10"	4' - 7"	2' - 7"	3' - 0"	3' - 10"	4' - 6"	
cy/100sf	1.44				1.52				1.60				1.67				

8' - 0"	D+L (Strength)	311	← Max. superimposed ASD factored dead + live load (psf) (governed by strength limitation)
	D+L (Deflection)	311	← Max. superimposed ASD unfactored dead + live load (psf) (governed by deflection limitation of L/240)
	L (Deflection)	311	← Max. superimposed ASD unfactored 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
- S_p Section modulus for positive bending per foot of deck width, (in³)/ft
- S_n Section modulus for negative bending per foot of deck width, (in³)/ft
- f_c 4000 psi

- 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
- D Uniform dead load, psf
- L Uniform live load, psf

Construction spans shown based on 1.5" exterior bearing and 3" interior bearing width.

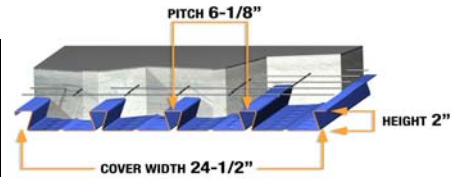
If welded wire fabric is not supplied per ACI requirements (0.00075"Ac), reduce loads by 10%. The section property table is based on 2001 AISI's Cold-Formed Steel Design Manual, 2004 Supplement. The live loads and unshored construction clear spans are based on the Steel Deck Institute's Composite Deck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

110 PCF CONCRETE

SECTION PROPERTIES

fy=40 ksi

GAGE	Wd	I _b	S _p	S _n	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



SIMPLE SPAN - MAXIMUM SUPERIMPOSED ASD LOADS, (psf), NO STUDS ON BEAMS																	
h (Wc)		6" (52.01)				6.25" (54.3)				6.5" (56.59)				6.75" (58.88)			
Span	Load Combinations	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)	312	400	400	400	330	400	400	400	347	400	400	400	365	400	400	400
	D+L (Deflection)	312	400	400	400	330	400	400	400	347	400	400	400	365	400	400	400
	L (Deflection)	312	400	400	400	330	400	400	400	347	400	400	400	365	400	400	400
10' - 0"	D+L (Strength)	249	324	400	400	263	343	400	400	277	362	400	400	292	381	400	400
	D+L (Deflection)	249	324	400	400	263	343	400	400	277	362	400	400	292	381	400	400
	L (Deflection)	249	324	400	400	263	343	400	400	277	362	400	400	292	381	400	400
11' - 0"	D+L (Strength)	202	267	400	400	214	283	400	400	225	298	400	400	237	314	400	400
	D+L (Deflection)	202	267	400	400	214	283	400	400	225	298	400	400	237	314	400	400
	L (Deflection)	202	267	400	400	214	283	400	400	225	298	400	400	237	314	400	400
12' - 0"	D+L (Strength)	166	224	340	400	176	237	360	400	185	250	380	400	195	263	400	400
	D+L (Deflection)	166	224	340	400	176	237	360	400	185	250	380	400	195	263	400	400
	L (Deflection)	166	224	340	400	176	237	360	400	185	250	380	400	195	263	400	400
13' - 0"	D+L (Strength)	138	185	285	400	146	196	301	400	154	207	318	400	162	218	335	400
	D+L (Deflection)	138	185	285	400	146	196	301	400	154	207	318	400	162	218	335	400
	L (Deflection)	138	185	285	397	146	196	301	400	154	207	318	400	162	218	335	400
14' - 0"	D+L (Strength)	116	155	241	346	123	164	255	366	129	174	269	387	136	183	283	400
	D+L (Deflection)	116	155	241	346	123	164	255	366	129	174	269	387	136	183	283	400
	L (Deflection)	116	155	241	318	123	164	255	355	129	174	269	387	136	183	283	400
15' - 0"	D+L (Strength)	97	131	205	297	103	139	217	314	109	146	229	332	108	154	242	350
	D+L (Deflection)	97	131	205	297	103	139	217	314	109	146	229	332	108	154	242	350
	L (Deflection)	97	131	205	258	103	139	217	289	109	146	229	321	108	154	242	350
16' - 0"	D+L (Strength)	76	111	176	257	80	117	187	272	85	124	197	287	90	131	208	303
	D+L (Deflection)	76	111	176	257	80	117	187	272	85	124	197	287	90	131	208	303
	L (Deflection)	76	111	176	213	80	117	187	238	85	124	197	265	90	131	208	293
17' - 0"	D+L (Strength)	62	94	152	223	66	94	161	237	70	99	170	250	74	105	180	264
	D+L (Deflection)	62	94	152	210	66	94	161	237	70	99	170	250	74	105	180	264
	L (Deflection)	62	94	152	178	66	94	161	198	70	99	170	221	74	105	180	245
18' - 0"	D+L (Strength)	51	74	132	195	55	79	140	207	58	84	148	219	62	89	156	231
	D+L (Deflection)	51	74	132	168	55	79	140	192	58	84	148	218	62	89	156	231
	L (Deflection)	51	74	132	150	55	79	140	167	58	84	148	186	62	89	156	206
19' - 0"	D+L (Strength)	42	63	115	172	45	67	122	182	48	71	129	193	51	75	136	203
	D+L (Deflection)	42	63	115	134	45	67	122	154	48	71	129	176	51	75	136	199
	L (Deflection)	42	63	115	127	45	67	122	142	48	71	129	158	51	75	136	175
20' - 0"	D+L (Strength)	34	53	100	151	36	56	100	161	39	60	106	170	41	63	112	179
	D+L (Deflection)	34	53	93	107	36	56	100	124	39	60	106	142	41	63	112	162
	L (Deflection)	34	53	93	107	36	56	100	122	39	60	106	136	41	63	112	150

MAXIMUM UNSHORED CONSTRUCTION CLEAR SPANS																
1span	5' - 11"	6' - 9"	8' - 0"	9' - 2"	5' - 10"	6' - 8"	7' - 11"	9' - 1"	5' - 9"	6' - 7"	7' - 9"	8' - 11"	5' - 8"	6' - 5"	7' - 8"	8' - 9"
2span	7' - 8"	8' - 7"	10' - 1"	11' - 4"	7' - 7"	8' - 5"	9' - 11"	11' - 2"	7' - 6"	8' - 4"	9' - 9"	11' - 0"	7' - 4"	8' - 2"	9' - 8"	10' - 10"
3span	8' - 0"	8' - 10"	10' - 5"	11' - 8"	7' - 10"	8' - 9"	10' - 3"	11' - 6"	7' - 9"	8' - 7"	10' - 1"	11' - 4"	7' - 7"	8' - 5"	9' - 11"	11' - 2"
cantilever	2' - 6"	2' - 11"	3' - 9"	4' - 5"	2' - 6"	2' - 11"	3' - 9"	4' - 4"	2' - 6"	2' - 11"	3' - 8"	4' - 4"	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 factored dead + live load (psf) (governed by strength limitation)
	D+L (Deflection)	400	← Max. superimposed ASD unfactored dead + live load (psf) (governed by deflection limitation of L/240)
	L (Deflection)	400	← Max. superimposed ASD unfactored 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
 S_p Section modulus for positive bending per foot of deck width, (in³)/ft
 S_n Section modulus for negative bending per foot of deck width, (in³)/ft
 f_c 4000 psi

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
 D Uniform dead load, psf
 L Uniform live load, psf

Construction spans shown based on 1.5" exterior bearing and 3" interior bearing width.

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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