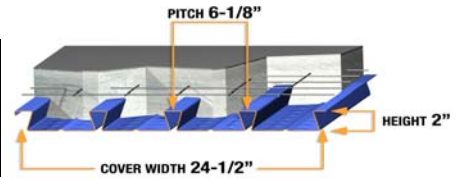


SECTION PROPERTIES

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" (44.39)				4.25" (47.41)				4.5" (50.43)				4.75" (53.45)			
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)	230	293	363	400	251	320	378	400	272	347	392	400	293	375	400	400
	D+L (Deflection)	230	293	363	400	251	320	378	400	272	347	392	400	293	375	400	400
	L (Deflection)	230	293	363	400	251	320	378	400	272	347	392	400	293	375	400	400
9' - 0"	D+L (Strength)	177	230	355	349	194	251	387	364	210	273	400	377	227	294	400	388
	D+L (Deflection)	177	230	355	349	194	251	387	364	210	273	400	377	227	294	400	388
	L (Deflection)	177	230	355	349	194	251	387	364	210	273	400	377	227	294	400	388
10' - 0"	D+L (Strength)	140	185	291	326	153	202	318	365	166	219	345	400	179	237	373	400
	D+L (Deflection)	140	185	291	326	153	202	318	365	166	219	345	400	179	237	373	400
	L (Deflection)	140	185	291	326	153	202	318	365	166	219	345	400	179	237	373	400
11' - 0"	D+L (Strength)	112	151	236	259	122	165	257	290	133	179	280	324	144	193	302	360
	D+L (Deflection)	112	151	236	259	122	165	257	290	133	179	280	324	144	193	302	360
	L (Deflection)	112	151	236	259	122	165	257	290	133	179	280	324	144	193	302	360
12' - 0"	D+L (Strength)	90	124	190	208	99	136	211	234	108	148	230	262	117	160	248	291
	D+L (Deflection)	90	124	190	208	99	136	211	234	108	148	230	262	117	160	248	291
	L (Deflection)	90	124	190	208	99	136	211	234	108	148	230	262	117	160	248	291
13' - 0"	D+L (Strength)	74	102	153	168	81	111	173	190	88	121	191	213	95	131	206	237
	D+L (Deflection)	74	102	153	168	81	111	173	190	88	121	191	213	95	131	206	237
	L (Deflection)	74	102	153	168	81	111	173	190	88	121	191	213	95	131	206	237
14' - 0"	D+L (Strength)	60	84	123	136	66	92	140	154	72	100	158	174	78	108	173	195
	D+L (Deflection)	60	84	123	136	66	92	140	154	72	100	158	174	78	108	173	195
	L (Deflection)	60	84	123	136	66	92	140	154	72	100	158	174	78	108	173	195
15' - 0"	D+L (Strength)	49	69	100	111	54	76	114	126	59	83	129	143	65	90	145	160
	D+L (Deflection)	49	69	100	111	54	76	114	126	59	83	129	143	65	90	145	160
	L (Deflection)	49	69	100	110	54	76	114	126	59	83	129	143	65	90	145	160
16' - 0"	D+L (Strength)	40	57	80	90	44	63	92	103	42	69	105	117	46	75	119	132
	D+L (Deflection)	40	57	76	87	44	63	92	103	42	69	105	117	46	75	119	132
	L (Deflection)	40	57	76	87	44	63	92	103	42	69	105	117	46	75	119	132
17' - 0"	D+L (Strength)	27	47	64	73	30	52	75	84	33	57	86	96	37	62	97	109
	D+L (Deflection)	27	46	56	65	30	52	71	82	33	57	86	96	37	62	97	109
	L (Deflection)	27	46	56	65	30	52	71	82	33	57	86	96	37	62	97	109
18' - 0"	D+L (Strength)	20	39	51	58	23	38	60	68	25	42	69	78	28	46	79	89
	D+L (Deflection)	20	31	39	47	23	38	52	61	25	42	66	76	28	46	79	89
	L (Deflection)	20	31	39	47	23	38	52	61	25	42	66	76	28	46	79	89
19' - 0"	D+L (Strength)	15	27	40	46	17	30	47	54	19	33	55	63	21	37	64	73
	D+L (Deflection)	15	20	26	32	17	29	36	44	19	33	48	57	21	37	61	71
	L (Deflection)	15	20	26	32	17	29	36	44	19	33	48	57	21	37	61	71
20' - 0"	D+L (Strength)	10	21	30	36	12	24	36	43	13	26	43	50	15	29	50	58
	D+L (Deflection)	7	10	16	21	12	17	24	30	13	26	33	41	15	29	44	53
	L (Deflection)	7	10	16	21	12	17	24	30	13	26	33	41	15	29	44	53
MAXIMUM UNSHORED CONSTRUCTION CLEAR SPANS																	
1 span	6' - 3"	7' - 2"	8' - 6"	9' - 9"	6' - 1"	7' - 0"	8' - 4"	9' - 6"	6' - 0"	6' - 10"	8' - 1"	9' - 4"	5' - 10"	6' - 8"	7' - 11"	9' - 1"	
2 span	8' - 2"	9' - 0"	10' - 7"	11' - 11"	8' - 0"	8' - 10"	10' - 4"	11' - 8"	7' - 9"	8' - 8"	10' - 2"	11' - 5"	7' - 8"	8' - 6"	10' - 0"	11' - 2"	
3 span	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)	230	← Max. superimposed ASD factored dead + live load (psf) (governed by strength limitation)
	D+L (Deflection)	230	← Max. superimposed ASD unfactored dead + live load (psf) (governed by deflection limitation of L/240)
	L (Deflection)	230	← 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.

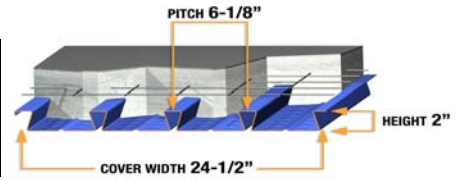
If welded wire fabric is not supplied per ACI requirements (0.00075"Ac), reduce loads by 10%. The section property table is based on 2001 AISI's Cold-Formed Steel Design Manual, 2004 Supplement. The live loads and unshored construction clear spans are based on the Steel Deck Institute's Composite Deck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

145 PCF CONCRETE

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



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

h (Wc)		5" (56.47)				5.25" (59.49)				5.5" (62.51)				5.75" (65.53)			
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)	315	400	400	400	337	400	400	400	400	359	400	400	400	381	400	400
	D+L (Deflection)	315	400	400	400	337	400	400	400	400	359	400	400	400	381	400	400
	L (Deflection)	315	400	400	400	337	400	400	400	400	359	400	400	400	381	400	400
9' - 0"	D+L (Strength)	244	316	400	400	261	339	400	400	400	278	361	400	400	296	384	400
	D+L (Deflection)	244	316	400	400	261	339	400	400	400	278	361	400	400	296	384	400
	L (Deflection)	244	316	400	400	261	339	400	400	400	278	361	400	400	296	384	400
10' - 0"	D+L (Strength)	193	254	400	400	206	272	400	400	400	220	290	400	400	234	309	400
	D+L (Deflection)	193	254	400	400	206	272	400	400	400	220	290	400	400	234	309	400
	L (Deflection)	193	254	400	400	206	272	400	400	400	220	290	400	400	234	309	400
11' - 0"	D+L (Strength)	155	208	325	398	166	223	348	400	400	177	238	372	400	188	253	395
	D+L (Deflection)	155	208	325	398	166	223	348	400	400	177	238	372	400	188	253	395
	L (Deflection)	155	208	325	398	166	223	348	400	400	177	238	372	400	188	253	395
12' - 0"	D+L (Strength)	126	172	267	322	135	185	286	355	400	144	197	306	389	153	210	325
	D+L (Deflection)	126	172	267	322	135	185	286	355	400	144	197	306	389	153	210	325
	L (Deflection)	126	172	267	322	135	185	286	355	400	144	197	306	389	153	210	325
13' - 0"	D+L (Strength)	103	141	222	263	110	152	238	291	400	118	162	254	319	126	173	271
	D+L (Deflection)	103	141	222	263	110	152	238	291	400	118	162	254	319	126	173	271
	L (Deflection)	103	141	222	263	110	152	238	291	400	118	162	254	319	126	173	271
14' - 0"	D+L (Strength)	85	117	186	217	91	125	200	240	400	97	134	214	264	104	143	227
	D+L (Deflection)	85	117	186	217	91	125	200	240	400	97	134	214	264	104	143	227
	L (Deflection)	85	117	186	217	91	125	200	240	400	97	134	214	264	104	143	227
15' - 0"	D+L (Strength)	70	97	158	179	68	104	169	198	400	73	112	181	219	79	119	193
	D+L (Deflection)	70	97	158	179	68	104	169	198	400	73	112	181	219	79	119	193
	L (Deflection)	70	97	158	179	68	104	169	198	400	73	112	181	219	79	119	193
16' - 0"	D+L (Strength)	51	81	133	148	55	87	144	165	400	59	93	154	182	63	92	164
	D+L (Deflection)	51	81	133	148	55	87	144	165	400	59	93	154	182	63	92	164
	L (Deflection)	51	81	133	148	55	87	144	165	400	59	93	154	182	63	92	164
17' - 0"	D+L (Strength)	40	61	110	122	43	66	123	137	400	47	71	132	152	50	76	140
	D+L (Deflection)	40	61	110	122	43	66	123	137	400	47	71	132	152	50	76	140
	L (Deflection)	40	61	110	122	43	66	123	137	400	47	71	132	152	50	76	140
18' - 0"	D+L (Strength)	31	50	90	101	34	54	101	113	400	37	58	113	126	39	62	121
	D+L (Deflection)	31	50	90	101	34	54	101	113	400	37	58	113	126	39	62	121
	L (Deflection)	31	50	90	101	34	54	101	113	400	37	58	113	126	39	62	121
19' - 0"	D+L (Strength)	23	40	73	83	26	44	82	94	400	28	47	89	105	30	51	95
	D+L (Deflection)	23	40	73	83	26	44	82	94	400	28	47	89	105	30	51	95
	L (Deflection)	23	40	73	83	26	44	82	94	400	28	47	89	105	30	51	95
20' - 0"	D+L (Strength)	17	32	63	67	19	35	68	77	400	21	38	73	86	22	41	78
	D+L (Deflection)	17	32	63	67	19	35	68	77	400	21	38	73	86	22	41	78
	L (Deflection)	17	32	63	67	19	35	68	77	400	21	38	73	86	22	41	78

MAXIMUM UNSHORED CONSTRUCTION CLEAR SPANS

	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' - 6"	6' - 3"	7' - 5"	8' - 6"
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' - 6"	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' - 6"	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)	315	← Max. superimposed ASD factored dead + live load (psf) (governed by strength limitation)
	D+L (Deflection)	315	← Max. superimposed ASD unfactored dead + live load (psf) (governed by deflection limitation of L/240)
	L (Deflection)	315	← 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
- 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
- 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.

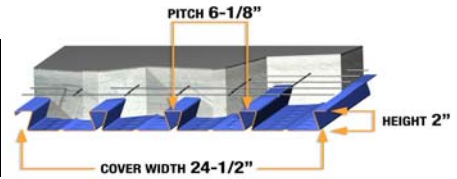
If welded wire fabric is not supplied per ACI requirements (0.00075"Ac), reduce loads by 10%. The section property table is based on 2001 AISI's Cold-Formed Steel Design Manual, 2004 Supplement. The live loads and unshored construction clear spans are based on the Steel Deck Institute's Composite Deck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

145 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" (68.55)				6.25" (71.58)				6.5" (74.6)				6.75" (77.62)			
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)	313	400	400	400	331	400	400	400	348	400	400	400	366	400	400	400
	D+L (Deflection)	313	400	400	400	331	400	400	400	348	400	400	400	366	400	400	400
	L (Deflection)	313	400	400	400	331	400	400	400	348	400	400	400	366	400	400	400
10' - 0"	D+L (Strength)	248	327	400	400	262	346	400	400	276	364	400	400	290	383	400	400
	D+L (Deflection)	248	327	400	400	262	346	400	400	276	364	400	400	290	383	400	400
	L (Deflection)	248	327	400	400	262	346	400	400	276	364	400	400	290	383	400	400
11' - 0"	D+L (Strength)	199	268	400	400	211	283	400	400	222	299	400	400	234	314	400	400
	D+L (Deflection)	199	268	400	400	211	283	400	400	222	299	400	400	234	314	400	400
	L (Deflection)	199	268	400	400	211	283	400	400	222	299	400	400	234	314	400	400
12' - 0"	D+L (Strength)	162	223	345	400	172	235	365	400	181	248	384	400	191	261	400	400
	D+L (Deflection)	162	223	345	400	172	235	365	400	181	248	384	400	191	261	400	400
	L (Deflection)	162	223	345	400	172	235	365	400	181	248	384	400	191	261	400	400
13' - 0"	D+L (Strength)	133	183	287	380	141	194	304	400	149	204	320	400	157	215	337	400
	D+L (Deflection)	133	183	287	380	141	194	304	400	149	204	320	400	157	215	337	400
	L (Deflection)	133	183	287	380	141	194	304	400	149	204	320	400	157	215	337	400
14' - 0"	D+L (Strength)	110	152	241	315	109	161	255	342	115	169	269	370	121	178	284	399
	D+L (Deflection)	110	152	241	315	109	161	255	342	115	169	269	370	121	178	284	399
	L (Deflection)	110	152	241	315	109	161	255	342	115	169	269	370	121	178	284	399
15' - 0"	D+L (Strength)	84	126	204	263	89	134	216	286	94	141	228	310	99	140	241	335
	D+L (Deflection)	84	126	204	263	89	134	216	286	94	141	228	310	99	140	241	335
	L (Deflection)	84	126	204	263	89	134	216	286	94	141	228	310	99	140	241	335
16' - 0"	D+L (Strength)	67	98	174	220	72	104	185	240	76	110	195	260	80	116	205	282
	D+L (Deflection)	67	98	174	220	72	104	185	240	76	110	195	260	80	116	205	282
	L (Deflection)	67	98	174	220	72	104	185	240	76	110	195	260	80	116	205	282
17' - 0"	D+L (Strength)	54	81	149	184	57	86	158	201	61	91	167	219	64	96	176	238
	D+L (Deflection)	54	81	149	184	57	86	158	201	61	91	167	219	64	96	176	238
	L (Deflection)	54	81	149	184	57	86	158	201	61	91	167	219	64	96	176	238
18' - 0"	D+L (Strength)	42	66	128	154	45	71	128	169	48	75	135	185	51	79	143	201
	D+L (Deflection)	42	66	128	154	45	71	128	169	48	75	135	185	51	79	143	201
	L (Deflection)	42	66	128	154	45	71	128	169	48	75	135	185	51	79	143	201
19' - 0"	D+L (Strength)	33	54	101	129	35	58	107	142	37	62	113	156	40	65	119	170
	D+L (Deflection)	33	54	101	129	35	58	107	142	37	62	113	156	40	65	119	170
	L (Deflection)	33	54	101	129	35	58	107	142	37	62	113	156	40	65	119	170
20' - 0"	D+L (Strength)	24	44	83	108	26	47	88	119	27	50	93	136	29	53	98	143
	D+L (Deflection)	24	44	83	108	26	47	88	119	27	50	93	136	29	53	98	143
	L (Deflection)	24	44	83	108	26	47	88	119	27	50	93	136	29	53	98	143

MAXIMUM UNSHORED CONSTRUCTION CLEAR SPANS

1 span	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 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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