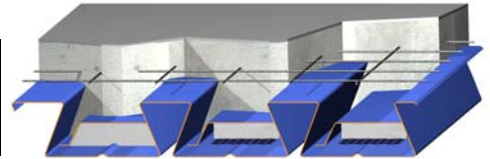


SECTION PROPERTIES

fy=40 ksi

GAGE	Wd	I <sub>D</sub>	Sp	Sn	Rbe			Rbi		
					2"	3"	4"	4"	5"	6"
20	3.07	1.803	0.747	0.803	909	1042	1154	1916	2061	2193
18	4.06	2.450	1.080	1.181	1534	1748	1928	3186	3415	3622
16	5.12	3.122	1.466	1.522	2362	2676	2940	4851	5184	5485



SIMPLE SPAN - MAXIMUM SUPERIMPOSED ASD LOADS, (psf), NO STUDS ON BEAMS													
h (Wc)		5.5" (33.8)			5.75" (36.09)			6" (38.39)			6.25" (40.68)		
Span	Load Combinations	GAGE											
		20	18	16	20	18	16	20	18	16	20	18	16
13' - 0"	D+L (Strength)	161	159	218	172	169	231	182	177	248	192	181	263
	D+L (Deflection)	161	159	218	172	169	231	182	177	248	192	181	263
	L (Deflection)	161	159	218	172	169	231	182	177	248	192	181	263
14' - 0"	D+L (Strength)	134	124	176	143	131	186	151	135	198	160	136	209
	D+L (Deflection)	134	124	176	143	131	186	151	135	198	160	136	209
	L (Deflection)	134	124	176	143	131	186	151	135	198	160	136	209
15' - 0"	D+L (Strength)	113	96	142	120	134	149	127	157	158	134	166	165
	D+L (Deflection)	113	96	142	120	134	149	127	157	158	134	166	165
	L (Deflection)	113	96	142	120	134	149	127	157	158	134	166	165
16' - 0"	D+L (Strength)	95	118	115	101	125	119	107	133	125	113	140	130
	D+L (Deflection)	95	118	115	101	125	119	107	133	125	113	140	130
	L (Deflection)	95	111	115	101	124	119	107	133	125	113	140	130
17' - 0"	D+L (Strength)	81	100	131	86	106	139	91	113	148	96	119	156
	D+L (Deflection)	81	100	120	86	106	135	91	113	148	96	119	156
	L (Deflection)	79	92	106	86	103	117	91	113	131	96	119	145
18' - 0"	D+L (Strength)	69	85	113	73	91	120	78	96	127	82	102	135
	D+L (Deflection)	64	79	95	73	90	107	78	96	121	82	102	135
	L (Deflection)	64	78	89	73	87	99	78	96	110	82	102	123
19' - 0"	D+L (Strength)	59	73	98	63	78	104	66	82	110	70	87	117
	D+L (Deflection)	48	61	75	57	71	85	66	82	97	70	87	110
	L (Deflection)	48	61	75	57	71	84	66	82	94	70	87	104
20' - 0"	D+L (Strength)	51	63	85	54	67	91	57	71	96	60	75	101
	D+L (Deflection)	36	47	59	43	55	67	51	64	77	60	74	88
	L (Deflection)	36	47	59	43	55	67	51	64	77	60	74	88
21' - 0"	D+L (Strength)	43	54	74	46	57	79	49	61	84	52	64	89
	D+L (Deflection)	26	36	45	32	42	52	39	50	60	46	58	70
	L (Deflection)	26	36	45	32	42	52	39	50	60	46	58	70
22' - 0"	D+L (Strength)	37	46	65	40	49	69	42	52	73	44	55	77
	D+L (Deflection)	18	26	34	23	31	40	28	38	47	34	45	55
	L (Deflection)	18	26	34	23	31	40	28	38	47	34	45	55
23' - 0"	D+L (Strength)	32	40	57	34	42	61	36	45	64	38	47	68
	D+L (Deflection)	11	18	25	15	22	30	20	28	35	25	34	42
	L (Deflection)	11	18	25	15	22	30	20	28	35	25	34	42
24' - 0"	D+L (Strength)	27	34	50	29	36	53	31	38	56	33	41	59
	D+L (Deflection)	5	11	18	9	15	21	12	19	26	16	24	32
	L (Deflection)	5	11	18	9	15	21	12	19	26	16	24	32
25' - 0"	D+L (Strength)	23	29	44	25	31	47	26	33	49	28	35	52
	D+L (Deflection)	1	6	11	3	9	14	6	12	18	9	16	23
	L (Deflection)	1	6	11	3	9	14	6	12	18	9	16	23
MAXIMUM UNSHORED CONSTRUCTION CLEAR SPANS													
1span	12' - 4"	15' - 2"	16' - 9"	12' - 0"	14' - 10"	16' - 6"	11' - 9"	14' - 5"	16' - 3"	11' - 6"	14' - 1"	16' - 1"	
2span	14' - 9"	18' - 0"	20' - 3"	14' - 5"	17' - 8"	19' - 10"	14' - 1"	17' - 3"	19' - 6"	13' - 9"	17' - 0"	19' - 2"	
3span	15' - 3"	18' - 7"	19' - 7"	14' - 11"	18' - 3"	19' - 4"	14' - 7"	17' - 10"	19' - 1"	14' - 3"	17' - 7"	18' - 10"	
cantilever	6' - 1"	7' - 10"	8' - 10"	6' - 0"	7' - 8"	8' - 8"	5' - 10"	7' - 7"	8' - 6"	5' - 9"	7' - 5"	8' - 4"	
cy/100sf		1.14			1.22			1.29			1.37		

13' - 0"	D+L (Strength)	161	← Max. superimposed ASD factored dead + live load (psf) (governed by strength limitation)
	D+L (Deflection)	161	← Max. superimposed ASD unfactored dead + live load (psf) (governed by deflection limitation of L/240)
	L (Deflection)	161	← 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<sub>D</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
- f<sub>c</sub> 3000 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

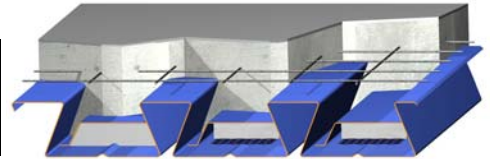
Construction spans shown based on 2" exterior bearing and 4" interior bearing width.  
If welded wire fabric is not supplied per ACI requirements (0.00075\*Ac), reduce loads by 10%. The section property table is based on 2001 AISI's Cold-Formed Steel Design Manual, 2004 Supplement. The live loads and 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 <sub>b</sub>	Sp	Sn	Rbe			Rbi		
					2"	3"	4"	4"	5"	6"
20	3.07	1.803	0.747	0.803	909	1042	1154	1916	2061	2193
18	4.06	2.450	1.080	1.181	1534	1748	1928	3186	3415	3622
16	5.12	3.122	1.466	1.522	2362	2676	2940	4851	5184	5485



SIMPLE SPAN - MAXIMUM SUPERIMPOSED ASD LOADS, (psf), NO STUDS ON BEAMS													
h (Wc)		6.5" (42.97)			6.75" (45.26)			7" (47.55)			7.25" (49.84)		
Span	Load Combinations	GAGE											
		20	18	16	20	18	16	20	18	16	20	18	16
13' - 0"	D+L (Strength)	202	184	272	212	187	281	223	189	290	233	191	298
	D+L (Deflection)	202	184	272	212	187	281	223	189	290	233	191	298
	L (Deflection)	202	184	272	212	187	281	223	189	290	233	191	298
14' - 0"	D+L (Strength)	168	192	215	177	219	220	185	230	226	194	240	230
	D+L (Deflection)	168	192	215	177	219	220	185	230	226	194	240	230
	L (Deflection)	168	192	215	177	219	220	185	230	226	194	240	230
15' - 0"	D+L (Strength)	141	175	169	148	184	171	155	193	174	163	201	175
	D+L (Deflection)	141	175	169	148	184	171	155	193	174	163	201	175
	L (Deflection)	141	175	169	148	184	171	155	193	174	163	201	175
16' - 0"	D+L (Strength)	119	148	191	125	155	201	131	163	211	137	170	220
	D+L (Deflection)	119	148	191	125	155	201	131	163	211	137	170	220
	L (Deflection)	119	148	191	125	155	201	131	163	211	137	170	220
17' - 0"	D+L (Strength)	101	126	164	106	132	173	112	138	181	117	145	189
	D+L (Deflection)	101	126	164	106	132	173	112	138	181	117	145	189
	L (Deflection)	101	126	164	106	132	173	112	138	181	117	145	189
18' - 0"	D+L (Strength)	86	107	142	91	112	149	95	118	156	99	123	163
	D+L (Deflection)	86	107	142	91	112	149	95	118	156	99	123	163
	L (Deflection)	86	107	142	91	112	149	95	118	156	99	123	163
19' - 0"	D+L (Strength)	74	92	123	78	96	129	81	101	135	85	106	142
	D+L (Deflection)	74	92	123	78	96	129	81	101	135	85	106	142
	L (Deflection)	74	92	123	78	96	129	81	101	135	85	106	142
20' - 0"	D+L (Strength)	63	79	107	67	83	112	70	87	118	73	91	123
	D+L (Deflection)	63	79	107	67	83	112	70	87	118	73	91	123
	L (Deflection)	63	79	107	67	83	112	70	87	118	73	91	123
21' - 0"	D+L (Strength)	54	68	93	57	71	98	60	74	103	63	78	108
	D+L (Deflection)	54	68	93	57	71	98	60	74	103	63	78	108
	L (Deflection)	54	68	93	57	71	98	60	74	103	63	78	108
22' - 0"	D+L (Strength)	47	58	82	49	61	86	51	64	90	54	67	94
	D+L (Deflection)	41	53	64	48	61	74	51	64	84	54	67	94
	L (Deflection)	41	53	64	48	61	74	51	64	84	54	67	94
23' - 0"	D+L (Strength)	40	50	71	42	52	75	44	55	79	46	57	82
	D+L (Deflection)	30	40	50	36	47	58	43	55	67	46	57	77
	L (Deflection)	30	40	50	36	47	58	43	55	67	46	57	77
24' - 0"	D+L (Strength)	34	43	63	36	45	66	38	47	69	40	49	72
	D+L (Deflection)	21	30	38	26	36	45	32	43	53	38	49	61
	L (Deflection)	21	30	38	26	36	45	32	43	53	38	49	61
25' - 0"	D+L (Strength)	29	37	55	31	38	58	32	40	61	34	42	63
	D+L (Deflection)	13	21	28	18	26	34	22	32	41	28	38	48
	L (Deflection)	13	21	28	18	26	34	22	32	41	28	38	48
MAXIMUM UNSHORED CONSTRUCTION CLEAR SPANS													
1span	11' - 3"	13' - 10"	15' - 10"	11' - 0"	13' - 6"	15' - 8"	10' - 9"	13' - 3"	15' - 6"	10' - 7"	13' - 0"	15' - 3"	
2span	13' - 6"	16' - 8"	18' - 10"	13' - 3"	16' - 5"	18' - 6"	12' - 11"	16' - 2"	18' - 3"	12' - 9"	15' - 11"	17' - 11"	
3span	14' - 0"	17' - 3"	18' - 7"	13' - 8"	16' - 11"	18' - 4"	13' - 5"	16' - 8"	18' - 2"	13' - 2"	16' - 5"	18' - 0"	
cantilever	5' - 8"	7' - 3"	8' - 3"	5' - 7"	7' - 2"	8' - 1"	5' - 6"	7' - 1"	8' - 0"	5' - 5"	6' - 11"	7' - 10"	
cy/100sf	1.45			1.52			1.60			1.68			

13' - 0"	D+L (Strength)	202	← Max. superimposed ASD factored dead + live load (psf) (governed by strength limitation)
	D+L (Deflection)	202	← Max. superimposed ASD unfactored dead + live load (psf) (governed by deflection limitation of L/240)
	L (Deflection)	202	← 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<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

f<sub>c</sub> 3000 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 2" exterior bearing and 4" interior bearing width.

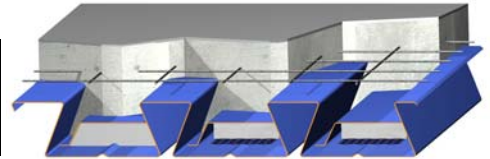
If welded wire fabric is not supplied per ACI requirements (0.00075\*Ac), reduce loads by 10%. The section property table is based on 2001 AISI's Cold-Formed Steel Design Manual, 2004 Supplement. The live loads and unshored construction clear spans are based on the Steel Deck Institute's Composite Deck 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 <sub>D</sub>	Sp	Sn	Rbe			Rbi		
					2"	3"	4"	4"	5"	6"
20	3.07	1.803	0.747	0.803	909	1042	1154	1916	2061	2193
18	4.06	2.450	1.080	1.181	1534	1748	1928	3186	3415	3622
16	5.12	3.122	1.466	1.522	2362	2676	2940	4851	5184	5485



SIMPLE SPAN - MAXIMUM SUPERIMPOSED ASD LOADS, (psf), NO STUDS ON BEAMS													
h (Wc)		7.5" (52.14)			7.75" (54.43)			8" (56.72)			8.25" (59.01)		
Span	Load Combinations	GAGE											
		20	18	16	20	18	16	20	18	16	20	18	16
13' - 0"	D+L (Strength)	243	301	305	253	314	312	263	326	319	274	339	324
	D+L (Deflection)	243	301	305	253	314	312	263	326	319	274	339	324
	L (Deflection)	243	301	305	253	314	312	263	326	319	274	339	324
14' - 0"	D+L (Strength)	202	251	234	211	261	237	219	272	239	228	282	241
	D+L (Deflection)	202	251	234	211	261	237	219	272	239	228	282	241
	L (Deflection)	202	251	234	211	261	237	219	272	239	228	282	241
15' - 0"	D+L (Strength)	170	210	176	177	219	260	184	228	293	191	237	304
	D+L (Deflection)	170	210	176	177	219	260	184	228	293	191	237	304
	L (Deflection)	170	210	176	177	219	260	184	228	293	191	237	304
16' - 0"	D+L (Strength)	143	178	230	149	185	240	155	193	250	161	200	259
	D+L (Deflection)	143	178	230	149	185	240	155	193	250	161	200	259
	L (Deflection)	143	178	230	149	185	240	155	193	250	161	200	259
17' - 0"	D+L (Strength)	122	151	198	127	157	206	132	164	214	137	170	223
	D+L (Deflection)	122	151	198	127	157	206	132	164	214	137	170	223
	L (Deflection)	122	151	198	127	157	206	132	164	214	137	170	223
18' - 0"	D+L (Strength)	104	129	171	108	134	178	113	140	185	117	145	192
	D+L (Deflection)	104	129	171	108	134	178	113	140	185	117	145	192
	L (Deflection)	104	129	171	108	134	178	113	140	185	117	145	192
19' - 0"	D+L (Strength)	89	110	148	93	115	154	96	119	160	100	124	167
	D+L (Deflection)	89	110	148	93	115	154	96	119	160	100	124	167
	L (Deflection)	89	110	148	93	115	154	96	119	160	100	124	167
20' - 0"	D+L (Strength)	76	95	129	79	99	134	83	103	139	86	107	145
	D+L (Deflection)	76	95	129	79	99	134	83	103	139	86	107	145
	L (Deflection)	76	95	129	79	99	134	83	103	139	86	107	145
21' - 0"	D+L (Strength)	65	81	112	68	85	117	71	88	122	74	92	126
	D+L (Deflection)	65	81	112	68	85	117	71	88	122	74	92	126
	L (Deflection)	65	81	112	68	85	117	71	88	122	74	92	126
22' - 0"	D+L (Strength)	56	70	98	59	73	102	61	76	106	63	79	111
	D+L (Deflection)	56	70	98	59	73	102	61	76	106	63	79	111
	L (Deflection)	56	70	98	59	73	102	61	76	106	63	79	111
23' - 0"	D+L (Strength)	48	60	86	50	63	90	52	65	93	54	68	97
	D+L (Deflection)	48	60	86	50	63	90	52	65	93	54	68	97
	L (Deflection)	48	60	86	50	63	90	52	65	93	54	68	97
24' - 0"	D+L (Strength)	41	52	75	43	54	79	45	56	82	44	58	85
	D+L (Deflection)	41	52	75	43	54	79	45	56	82	44	58	85
	L (Deflection)	41	52	75	43	54	79	45	56	82	44	58	85
25' - 0"	D+L (Strength)	35	44	66	32	46	69	34	48	72	36	50	75
	D+L (Deflection)	34	44	66	32	46	69	34	48	72	36	50	75
	L (Deflection)	34	44	66	32	46	69	34	48	72	36	50	75
MAXIMUM UNSHORED CONSTRUCTION CLEAR SPANS													
1span	10' - 5"	12' - 9"	15' - 0"	10' - 2"	12' - 6"	14' - 9"	10' - 0"	12' - 4"	14' - 6"	9' - 10"	12' - 1"	14' - 3"	
2span	12' - 6"	15' - 8"	17' - 8"	12' - 3"	15' - 5"	17' - 5"	12' - 0"	15' - 2"	17' - 2"	11' - 10"	15' - 0"	16' - 11"	
3span	12' - 11"	16' - 2"	17' - 9"	12' - 8"	15' - 11"	17' - 7"	12' - 6"	15' - 8"	17' - 5"	12' - 3"	15' - 6"	17' - 4"	
cantilever	5' - 4"	6' - 10"	7' - 9"	5' - 3"	6' - 9"	7' - 8"	5' - 2"	6' - 8"	7' - 7"	5' - 2"	6' - 7"	7' - 6"	
cy/100sf	1.76			1.83			1.91			1.99			

13' - 0"	D+L (Strength)	243	← Max. superimposed ASD factored dead + live load (psf) (governed by strength limitation)
	D+L (Deflection)	243	← Max. superimposed ASD unfactored dead + live load (psf) (governed by deflection limitation of L/240)
	L (Deflection)	243	← 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<sub>D</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
- f<sub>c</sub> 3000 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 2" exterior bearing and 4" 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