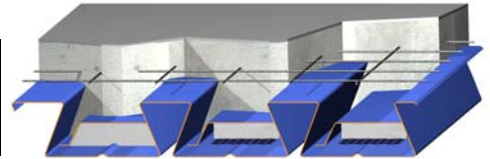


SECTION PROPERTIES

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)		5.5" (36.88)			5.75" (39.38)			6" (41.88)			6.25" (44.38)		
Span	Load Combinations	GAGE											
		20	18	16	20	18	16	20	18	16	20	18	16
13' - 0"	D+L (Strength)	161	157	217	171	166	231	181	169	248	191	172	257
	D+L (Deflection)	161	157	217	171	166	231	181	169	248	191	172	257
	L (Deflection)	161	157	217	171	166	231	181	169	248	191	172	257
14' - 0"	D+L (Strength)	133	121	174	142	126	184	150	170	197	159	197	202
	D+L (Deflection)	133	121	174	142	126	184	150	170	197	159	197	202
	L (Deflection)	133	121	174	142	126	184	150	170	197	159	197	202
15' - 0"	D+L (Strength)	112	124	139	119	148	147	126	156	155	133	165	158
	D+L (Deflection)	112	124	139	119	148	147	126	156	155	133	165	158
	L (Deflection)	112	124	139	119	148	147	126	156	155	133	165	158
16' - 0"	D+L (Strength)	94	117	111	100	124	116	106	132	171	112	139	181
	D+L (Deflection)	94	117	111	100	124	116	106	132	171	112	139	181
	L (Deflection)	94	117	111	100	124	116	106	132	167	112	139	181
17' - 0"	D+L (Strength)	80	99	130	85	106	138	90	112	147	95	118	155
	D+L (Deflection)	80	99	126	85	106	138	90	112	147	95	118	155
	L (Deflection)	80	98	112	85	106	124	90	112	139	95	118	155
18' - 0"	D+L (Strength)	68	85	112	72	90	119	77	95	126	81	101	134
	D+L (Deflection)	67	83	99	72	90	113	77	95	126	81	101	134
	L (Deflection)	67	83	94	72	90	105	77	95	117	81	101	131
19' - 0"	D+L (Strength)	58	72	97	62	77	103	65	81	109	69	86	116
	D+L (Deflection)	51	64	78	60	75	89	65	81	102	69	86	116
	L (Deflection)	51	64	78	60	75	89	65	81	100	69	86	111
20' - 0"	D+L (Strength)	50	62	84	53	66	90	56	70	95	59	74	100
	D+L (Deflection)	38	49	61	46	58	70	54	68	81	59	74	93
	L (Deflection)	38	49	61	46	58	70	54	68	81	59	74	93
21' - 0"	D+L (Strength)	43	53	74	45	56	78	48	60	83	51	63	88
	D+L (Deflection)	27	37	47	34	44	54	41	52	64	49	62	74
	L (Deflection)	27	37	47	34	44	54	41	52	64	49	62	74
22' - 0"	D+L (Strength)	36	45	64	39	48	68	41	51	71	43	54	76
	D+L (Deflection)	19	27	35	24	33	42	30	40	49	36	47	58
	L (Deflection)	19	27	35	24	33	42	30	40	49	36	47	58
23' - 0"	D+L (Strength)	31	39	56	33	41	60	35	44	60	37	46	65
	D+L (Deflection)	11	18	26	15	23	31	20	29	37	26	35	44
	L (Deflection)	11	18	26	15	23	31	20	29	37	26	35	44
24' - 0"	D+L (Strength)	27	33	49	28	35	52	30	37	50	32	40	55
	D+L (Deflection)	5	11	17	9	15	22	12	20	27	17	25	33
	L (Deflection)	5	11	17	9	15	22	12	20	27	17	25	33
25' - 0"	D+L (Strength)	22	28	43	24	30	44	25	32	42	27	34	46
	D+L (Deflection)	0	5	11	3	8	14	6	12	18	9	17	24
	L (Deflection)	0	5	11	3	8	14	6	12	18	9	17	24
MAXIMUM UNSHORED CONSTRUCTION CLEAR SPANS													
1span	11' - 11"	14' - 8"	16' - 5"	11' - 7"	14' - 4"	16' - 2"	11' - 4"	13' - 11"	15' - 11"	11' - 1"	13' - 7"	15' - 9"	
2span	14' - 4"	17' - 6"	19' - 9"	14' - 0"	17' - 2"	19' - 4"	13' - 8"	16' - 10"	19' - 0"	13' - 4"	16' - 6"	18' - 8"	
3span	14' - 10"	18' - 1"	19' - 3"	14' - 5"	17' - 9"	19' - 0"	14' - 1"	17' - 5"	18' - 8"	13' - 9"	17' - 1"	18' - 6"	
cantilever	5' - 11"	7' - 8"	8' - 7"	5' - 10"	7' - 6"	8' - 5"	5' - 9"	7' - 4"	8' - 3"	5' - 7"	7' - 3"	8' - 2"	
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>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

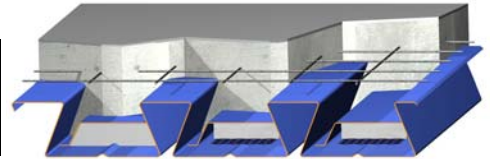
Construction spans shown based on 2" exterior bearing and 4" interior bearing width.  
If welded wire fabric is not supplied per ACI requirements (0.00075\*Ac), reduce loads by 10%. The section property table is based on 2001 AISI's Cold-Formed Steel Design Manual, 2004 Supplement. The live loads and 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.

## 120 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" (46.88)			6.75" (49.38)			7" (51.88)			7.25" (54.38)		
Span	Load Combinations	GAGE											
		20	18	16	20	18	16	20	18	16	20	18	16
13' - 0"	D+L (Strength)	201	174	265	211	176	273	221	255	280	231	287	287
	D+L (Deflection)	201	174	265	211	176	273	221	255	280	231	287	287
	L (Deflection)	201	174	265	211	176	273	221	255	280	231	287	287
14' - 0"	D+L (Strength)	167	207	207	176	218	211	184	228	215	192	239	218
	D+L (Deflection)	167	207	207	176	218	211	184	228	215	192	239	218
	L (Deflection)	167	207	207	176	218	211	184	228	215	192	239	218
15' - 0"	D+L (Strength)	140	174	160	147	183	161	154	191	162	161	200	236
	D+L (Deflection)	140	174	160	147	183	161	154	191	162	161	200	236
	L (Deflection)	140	174	160	147	183	161	154	191	162	161	200	236
16' - 0"	D+L (Strength)	118	147	190	124	154	200	130	162	210	136	169	219
	D+L (Deflection)	118	147	190	124	154	200	130	162	210	136	169	219
	L (Deflection)	118	147	190	124	154	200	130	162	210	136	169	219
17' - 0"	D+L (Strength)	100	124	163	105	131	172	110	137	180	115	143	188
	D+L (Deflection)	100	124	163	105	131	172	110	137	180	115	143	188
	L (Deflection)	100	124	163	105	131	172	110	137	180	115	143	188
18' - 0"	D+L (Strength)	85	106	141	90	111	148	94	117	155	98	122	162
	D+L (Deflection)	85	106	141	90	111	148	94	117	155	98	122	162
	L (Deflection)	85	106	141	90	111	148	94	117	155	98	122	162
19' - 0"	D+L (Strength)	73	91	122	77	95	128	80	100	134	84	104	140
	D+L (Deflection)	73	91	122	77	95	128	80	100	134	84	104	140
	L (Deflection)	73	91	122	77	95	128	80	100	134	84	104	140
20' - 0"	D+L (Strength)	62	78	106	65	81	111	69	85	117	72	89	122
	D+L (Deflection)	62	78	106	65	81	111	69	85	117	72	89	122
	L (Deflection)	62	78	106	65	81	111	69	85	117	72	89	122
21' - 0"	D+L (Strength)	53	66	92	56	70	97	59	73	102	61	77	106
	D+L (Deflection)	53	66	92	56	70	97	59	73	102	61	77	106
	L (Deflection)	53	66	92	56	70	97	59	73	102	61	77	106
22' - 0"	D+L (Strength)	46	57	81	48	60	85	50	63	89	53	66	93
	D+L (Deflection)	43	56	67	48	60	78	50	63	89	53	66	93
	L (Deflection)	43	56	67	48	60	78	50	63	89	53	66	93
23' - 0"	D+L (Strength)	39	49	70	41	51	74	43	54	78	45	56	81
	D+L (Deflection)	32	42	53	38	50	61	43	54	71	45	56	81
	L (Deflection)	32	42	53	38	50	61	43	54	71	45	56	81
24' - 0"	D+L (Strength)	33	42	60	35	44	65	37	46	68	38	48	71
	D+L (Deflection)	22	31	40	27	38	48	34	45	56	38	48	65
	L (Deflection)	22	31	40	27	38	48	34	45	56	38	48	65
25' - 0"	D+L (Strength)	28	36	50	30	37	55	31	39	59	25	41	62
	D+L (Deflection)	14	22	29	18	27	36	23	33	43	25	40	51
	L (Deflection)	14	22	29	18	27	36	23	33	43	25	40	51

MAXIMUM UNSHORED CONSTRUCTION CLEAR SPANS

1span	10' - 10"	13' - 4"	15' - 7"	10' - 7"	13' - 0"	15' - 4"	10' - 5"	12' - 9"	15' - 1"	10' - 2"	12' - 6"	14' - 9"
2span	13' - 0"	16' - 3"	18' - 4"	12' - 9"	15' - 11"	18' - 0"	12' - 6"	15' - 8"	17' - 8"	12' - 3"	15' - 5"	17' - 5"
3span	13' - 6"	16' - 9"	18' - 3"	13' - 3"	16' - 6"	18' - 0"	12' - 11"	16' - 3"	17' - 10"	12' - 8"	15' - 11"	17' - 7"
cantilever	5' - 6"	7' - 1"	8' - 0"	5' - 5"	7' - 0"	7' - 11"	5' - 4"	6' - 10"	7' - 9"	5' - 3"	6' - 9"	7' - 8"
cy/100sf		1.45			1.52			1.60			1.68	

13' - 0"	D+L (Strength)	201	← Max. superimposed ASD factored dead + live load (psf) (governed by strength limitation)
	D+L (Deflection)	201	← Max. superimposed ASD unfactored dead + live load (psf) (governed by deflection limitation of L/240)
	L (Deflection)	201	← 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.

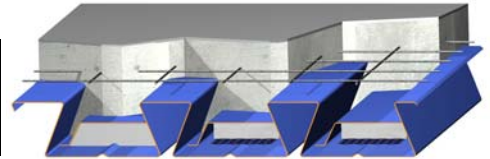
If welded wire fabric is not supplied per ACI requirements (0.00075\*Ac), reduce loads by 10%. The section property table is based on 2001 AISI's Cold-Formed Steel Design Manual, 2004 Supplement. The live loads and unshored construction clear spans are based on the Steel Deck Institute's Composite Deck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

120 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)		7.5" (56.88)			7.75" (59.38)			8" (61.88)			8.25" (64.38)		
Span	Load Combinations	GAGE											
		20	18	16	20	18	16	20	18	16	20	18	16
13' - 0"	D+L (Strength)	242	300	293	252	312	298	262	325	302	272	338	306
	D+L (Deflection)	242	300	293	252	312	298	262	325	302	272	338	306
	L (Deflection)	242	300	293	252	312	298	262	325	302	272	338	306
14' - 0"	D+L (Strength)	201	249	220	209	260	221	218	270	222	226	281	333
	D+L (Deflection)	201	249	220	209	260	221	218	270	222	226	281	333
	L (Deflection)	201	249	220	209	260	221	218	270	222	226	281	333
15' - 0"	D+L (Strength)	168	209	269	175	218	280	183	227	291	190	235	302
	D+L (Deflection)	168	209	269	175	218	280	183	227	291	190	235	302
	L (Deflection)	168	209	269	175	218	280	183	227	291	190	235	302
16' - 0"	D+L (Strength)	142	176	229	148	184	238	154	191	248	160	199	258
	D+L (Deflection)	142	176	229	148	184	238	154	191	248	160	199	258
	L (Deflection)	142	176	229	148	184	238	154	191	248	160	199	258
17' - 0"	D+L (Strength)	120	150	196	126	156	205	131	162	213	136	168	221
	D+L (Deflection)	120	150	196	126	156	205	131	162	213	136	168	221
	L (Deflection)	120	150	196	126	156	205	131	162	213	136	168	221
18' - 0"	D+L (Strength)	103	127	169	107	133	176	111	138	183	115	144	191
	D+L (Deflection)	103	127	169	107	133	176	111	138	183	115	144	191
	L (Deflection)	103	127	169	107	133	176	111	138	183	115	144	191
19' - 0"	D+L (Strength)	88	109	147	91	113	153	95	118	159	99	123	165
	D+L (Deflection)	88	109	147	91	113	153	95	118	159	99	123	165
	L (Deflection)	88	109	147	91	113	153	95	118	159	99	123	165
20' - 0"	D+L (Strength)	75	93	127	78	97	133	81	101	138	84	105	143
	D+L (Deflection)	75	93	127	78	97	133	81	101	138	84	105	143
	L (Deflection)	75	93	127	78	97	133	81	101	138	84	105	143
21' - 0"	D+L (Strength)	64	80	111	67	83	116	69	87	120	72	90	125
	D+L (Deflection)	64	80	111	67	83	116	69	87	120	72	90	125
	L (Deflection)	64	80	111	67	83	116	69	87	120	72	90	125
22' - 0"	D+L (Strength)	55	69	97	57	71	101	59	74	105	62	77	109
	D+L (Deflection)	55	69	97	57	71	101	59	74	105	62	77	109
	L (Deflection)	55	69	97	57	71	101	59	74	105	62	77	109
23' - 0"	D+L (Strength)	47	59	85	49	61	88	51	64	92	50	66	95
	D+L (Deflection)	47	59	85	49	61	88	51	64	92	50	66	95
	L (Deflection)	47	59	85	49	61	88	51	64	92	50	66	95
24' - 0"	D+L (Strength)	40	50	74	36	52	77	38	54	80	40	57	84
	D+L (Deflection)	40	50	74	36	52	77	38	54	80	40	57	84
	L (Deflection)	40	50	74	36	52	77	38	54	80	40	57	84
25' - 0"	D+L (Strength)	26	43	65	28	45	68	30	46	70	31	48	73
	D+L (Deflection)	26	43	65	28	45	68	30	46	70	31	48	73
	L (Deflection)	26	43	65	28	45	68	30	46	70	31	48	73
MAXIMUM UNSHORED CONSTRUCTION CLEAR SPANS													
1span	10' - 0"	12' - 3"	14' - 6"	9' - 10"	12' - 1"	14' - 3"	9' - 9"	11' - 11"	14' - 0"	9' - 7"	11' - 9"	13' - 11"	
2span	12' - 0"	15' - 2"	17' - 2"	11' - 9"	14' - 11"	16' - 11"	11' - 7"	14' - 9"	16' - 8"	11' - 4"	14' - 6"	16' - 5"	
3span	12' - 5"	15' - 8"	17' - 5"	12' - 2"	15' - 6"	17' - 3"	12' - 0"	15' - 3"	17' - 1"	11' - 9"	15' - 0"	16' - 11"	
cantilever	5' - 2"	6' - 8"	7' - 7"	5' - 1"	6' - 6"	7' - 5"	5' - 1"	6' - 5"	7' - 4"	5' - 0"	6' - 4"	7' - 3"	
cy/100sf	1.76			1.83			1.91			1.99			

13' - 0"	D+L (Strength)	242	← Max. superimposed ASD factored dead + live load (psf) (governed by strength limitation)
	D+L (Deflection)	242	← Max. superimposed ASD unfactored dead + live load (psf) (governed by deflection limitation of L/240)
	L (Deflection)	242	← 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.

## 120 PCF CONCRETE