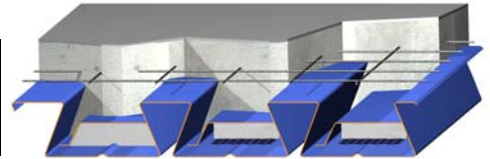


SECTION PROPERTIES

fy=40 ksi

GAGE	Wd	I _D	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" (35.34)			5.75" (37.73)			6" (40.13)			6.25" (42.53)		
Span	Load Combinations	GAGE											
		20	18	16	20	18	16	20	18	16	20	18	16
13' - 0"	D+L (Strength)	161	158	217	171	168	231	181	173	249	191	176	260
	D+L (Deflection)	161	158	217	171	168	231	181	173	249	191	176	260
	L (Deflection)	161	158	217	171	168	231	181	173	249	191	176	260
14' - 0"	D+L (Strength)	134	122	175	142	129	185	151	131	198	159	181	205
	D+L (Deflection)	134	122	175	142	129	185	151	131	198	159	181	205
	L (Deflection)	134	122	175	142	129	185	151	131	198	159	181	205
15' - 0"	D+L (Strength)	112	125	141	119	148	148	126	157	157	134	166	161
	D+L (Deflection)	112	125	141	119	148	148	126	157	157	134	166	161
	L (Deflection)	112	125	141	119	148	148	126	157	157	134	166	161
16' - 0"	D+L (Strength)	95	117	113	101	125	117	107	132	123	113	140	181
	D+L (Deflection)	95	117	113	101	125	117	107	132	123	113	140	181
	L (Deflection)	95	114	113	101	125	117	107	132	123	113	140	180
17' - 0"	D+L (Strength)	80	100	131	86	106	139	91	112	147	96	119	156
	D+L (Deflection)	80	100	123	86	106	138	91	112	147	96	119	156
	L (Deflection)	80	95	109	86	106	121	91	112	135	96	119	150
18' - 0"	D+L (Strength)	69	85	113	73	90	120	77	96	127	82	101	134
	D+L (Deflection)	65	81	97	73	90	110	77	96	125	82	101	134
	L (Deflection)	65	80	92	73	90	102	77	96	114	82	101	127
19' - 0"	D+L (Strength)	59	73	98	62	77	104	66	82	110	70	86	116
	D+L (Deflection)	50	63	76	59	73	87	66	82	99	70	86	114
	L (Deflection)	50	63	76	59	73	87	66	82	97	70	86	108
20' - 0"	D+L (Strength)	50	62	85	53	66	90	56	70	96	60	74	101
	D+L (Deflection)	37	48	60	45	56	68	53	66	79	60	74	91
	L (Deflection)	37	48	60	45	56	68	53	66	79	60	74	91
21' - 0"	D+L (Strength)	43	53	74	46	57	79	48	60	83	51	64	88
	D+L (Deflection)	27	36	46	33	43	53	40	51	62	47	60	72
	L (Deflection)	27	36	46	33	43	53	40	51	62	47	60	72
22' - 0"	D+L (Strength)	37	46	65	39	49	69	41	52	73	44	55	77
	D+L (Deflection)	18	26	35	23	32	41	29	39	48	35	46	56
	L (Deflection)	18	26	35	23	32	41	29	39	48	35	46	56
23' - 0"	D+L (Strength)	32	39	57	34	42	60	36	44	64	38	47	67
	D+L (Deflection)	11	18	25	15	23	30	20	28	36	25	34	43
	L (Deflection)	11	18	25	15	23	30	20	28	36	25	34	43
24' - 0"	D+L (Strength)	27	34	49	29	36	53	30	38	56	32	40	59
	D+L (Deflection)	5	11	18	9	15	22	12	20	27	17	25	32
	L (Deflection)	5	11	18	9	15	22	12	20	27	17	25	32
25' - 0"	D+L (Strength)	23	29	43	24	31	46	26	32	47	27	34	50
	D+L (Deflection)	0	5	11	3	8	14	6	12	18	9	16	23
	L (Deflection)	0	5	11	3	8	14	6	12	18	9	16	23
MAXIMUM UNSHORED CONSTRUCTION CLEAR SPANS													
1span	12' - 1"	14' - 11"	16' - 7"	11' - 10"	14' - 7"	16' - 4"	11' - 6"	14' - 2"	16' - 1"	11' - 3"	13' - 10"	15' - 11"	
2span	14' - 6"	17' - 9"	20' - 0"	14' - 2"	17' - 5"	19' - 7"	13' - 10"	17' - 1"	19' - 3"	13' - 7"	16' - 9"	18' - 11"	
3span	15' - 1"	18' - 4"	19' - 5"	14' - 8"	18' - 0"	19' - 2"	14' - 4"	17' - 8"	18' - 11"	14' - 0"	17' - 4"	18' - 8"	
cantilever	6' - 0"	7' - 9"	8' - 9"	5' - 11"	7' - 7"	8' - 7"	5' - 9"	7' - 5"	8' - 5"	5' - 8"	7' - 4"	8' - 3"	
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_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
- f_c 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

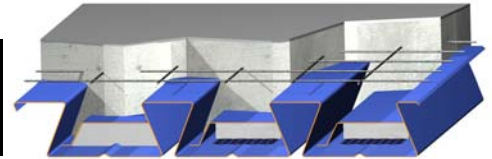
Construction spans shown based on 2" exterior bearing and 4" interior bearing width.
If welded wire fabric is not supplied per ACI requirements (0.00075*Ac), reduce loads by 10%. The section property table is based on 2001 AISI's Cold-Formed Steel Design Manual, 2004 Supplement. The live loads and unshored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

115 PCF CONCRETE

SECTION PROPERTIES

fy=40 ksi

GAGE	Wd	I _b	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" (44.92)			6.75" (47.32)			7" (49.71)			7.25" (52.11)		
Span	Load Combinations	GAGE											
		20	18	16	20	18	16	20	18	16	20	18	16
13' - 0"	D+L (Strength)	202	179	269	212	182	277	222	183	285	232	288	293
	D+L (Deflection)	202	179	269	212	182	277	222	183	285	232	288	293
	L (Deflection)	202	179	269	212	182	277	222	183	285	232	288	293
14' - 0"	D+L (Strength)	168	208	211	176	218	216	185	229	220	193	239	224
	D+L (Deflection)	168	208	211	176	218	216	185	229	220	193	239	224
	L (Deflection)	168	208	211	176	218	216	185	229	220	193	239	224
15' - 0"	D+L (Strength)	141	174	164	148	183	166	155	192	168	162	201	169
	D+L (Deflection)	141	174	164	148	183	166	155	192	168	162	201	169
	L (Deflection)	141	174	164	148	183	166	155	192	168	162	201	169
16' - 0"	D+L (Strength)	119	147	191	125	155	201	131	162	210	137	170	220
	D+L (Deflection)	119	147	191	125	155	201	131	162	210	137	170	220
	L (Deflection)	119	147	191	125	155	201	131	162	210	137	170	220
17' - 0"	D+L (Strength)	101	125	164	106	131	172	111	138	180	116	144	189
	D+L (Deflection)	101	125	164	106	131	172	111	138	180	116	144	189
	L (Deflection)	101	125	164	106	131	172	111	138	180	116	144	189
18' - 0"	D+L (Strength)	86	107	141	90	112	148	95	117	156	99	123	163
	D+L (Deflection)	86	107	141	90	112	148	95	117	156	99	123	163
	L (Deflection)	86	107	141	90	112	148	95	117	156	99	123	163
19' - 0"	D+L (Strength)	73	91	122	77	96	129	81	100	135	84	105	141
	D+L (Deflection)	73	91	122	77	96	129	81	100	135	84	105	141
	L (Deflection)	73	91	120	77	96	129	81	100	135	84	105	141
20' - 0"	D+L (Strength)	63	78	106	66	82	112	69	86	117	72	90	123
	D+L (Deflection)	63	78	104	66	82	112	69	86	117	72	90	123
	L (Deflection)	63	78	103	66	82	112	69	86	117	72	90	123
21' - 0"	D+L (Strength)	54	67	93	57	70	97	59	74	102	62	77	107
	D+L (Deflection)	54	67	83	57	70	95	59	74	102	62	77	107
	L (Deflection)	54	67	83	57	70	95	59	74	102	62	77	107
22' - 0"	D+L (Strength)	46	58	81	48	60	85	51	63	89	53	66	93
	D+L (Deflection)	42	54	66	48	60	76	51	63	87	53	66	93
	L (Deflection)	42	54	66	48	60	76	51	63	87	53	66	93
23' - 0"	D+L (Strength)	40	49	71	42	52	75	44	54	78	46	57	82
	D+L (Deflection)	31	41	51	37	49	60	44	54	69	46	57	79
	L (Deflection)	31	41	51	37	49	60	44	54	69	46	57	79
24' - 0"	D+L (Strength)	34	42	62	35	44	65	37	47	68	39	49	72
	D+L (Deflection)	21	30	39	27	37	46	33	44	54	39	49	63
	L (Deflection)	21	30	39	27	37	46	33	44	54	39	49	63
25' - 0"	D+L (Strength)	29	36	54	30	38	57	32	40	60	33	42	63
	D+L (Deflection)	13	21	29	18	27	35	23	33	42	28	39	49
	L (Deflection)	13	21	29	18	27	35	23	33	42	28	39	49
MAXIMUM UNSHORED CONSTRUCTION CLEAR SPANS													
1span	11' - 0"	13' - 7"	15' - 8"	10' - 10"	13' - 3"	15' - 6"	10' - 7"	13' - 0"	15' - 4"	10' - 5"	12' - 9"	15' - 0"	
2span	13' - 3"	16' - 6"	18' - 7"	13' - 0"	16' - 2"	18' - 3"	12' - 9"	15' - 11"	18' - 0"	12' - 6"	15' - 8"	17' - 8"	
3span	13' - 9"	17' - 0"	18' - 5"	13' - 5"	16' - 9"	18' - 2"	13' - 2"	16' - 5"	18' - 0"	12' - 11"	16' - 2"	17' - 10"	
cantilever	5' - 7"	7' - 2"	8' - 1"	5' - 6"	7' - 1"	8' - 0"	5' - 5"	6' - 11"	7' - 10"	5' - 4"	6' - 10"	7' - 9"	
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_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 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.

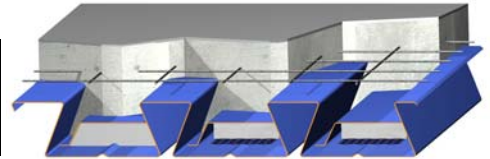
If welded wire fabric is not supplied per ACI requirements (0.00075*Ac), reduce loads by 10%. The section property table is based on 2001 AISI's Cold-Formed Steel Design Manual, 2004 Supplement. The live loads and unshored construction clear spans are based on the Steel Deck Institute's Composite Deck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

115 PCF CONCRETE

SECTION PROPERTIES

fy=40 ksi

GAGE	Wd	I _D	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" (54.51)			7.75" (56.9)			8" (59.3)			8.25" (61.69)		
Span	Load Combinations	GAGE											
		20	18	16	20	18	16	20	18	16	20	18	16
13' - 0"	D+L (Strength)	242	301	299	252	313	305	263	326	311	273	338	315
	D+L (Deflection)	242	301	299	252	313	305	263	326	311	273	338	315
	L (Deflection)	242	301	299	252	313	305	263	326	311	273	338	315
14' - 0"	D+L (Strength)	202	250	227	210	260	229	218	271	231	227	281	231
	D+L (Deflection)	202	250	227	210	260	229	218	271	231	227	281	231
	L (Deflection)	202	250	227	210	260	229	218	271	231	227	281	231
15' - 0"	D+L (Strength)	169	210	248	176	218	281	183	227	292	190	236	303
	D+L (Deflection)	169	210	248	176	218	281	183	227	292	190	236	303
	L (Deflection)	169	210	248	176	218	281	183	227	292	190	236	303
16' - 0"	D+L (Strength)	143	177	230	149	184	239	155	192	249	161	199	258
	D+L (Deflection)	143	177	230	149	184	239	155	192	249	161	199	258
	L (Deflection)	143	177	230	149	184	239	155	192	249	161	199	258
17' - 0"	D+L (Strength)	121	150	197	126	157	205	131	163	214	136	169	222
	D+L (Deflection)	121	150	197	126	157	205	131	163	214	136	169	222
	L (Deflection)	121	150	197	126	157	205	131	163	214	136	169	222
18' - 0"	D+L (Strength)	103	128	170	108	133	177	112	139	184	116	144	191
	D+L (Deflection)	103	128	170	108	133	177	112	139	184	116	144	191
	L (Deflection)	103	128	170	108	133	177	112	139	184	116	144	191
19' - 0"	D+L (Strength)	88	110	147	92	114	153	96	119	160	99	123	166
	D+L (Deflection)	88	110	147	92	114	153	96	119	160	99	123	166
	L (Deflection)	88	110	147	92	114	153	96	119	160	99	123	166
20' - 0"	D+L (Strength)	76	94	128	79	98	133	82	102	139	85	106	144
	D+L (Deflection)	76	94	128	79	98	133	82	102	139	85	106	144
	L (Deflection)	76	94	128	79	98	133	82	102	139	85	106	144
21' - 0"	D+L (Strength)	65	81	112	67	84	116	70	87	121	73	91	126
	D+L (Deflection)	65	81	112	67	84	116	70	87	121	73	91	126
	L (Deflection)	65	81	112	67	84	116	70	87	121	73	91	126
22' - 0"	D+L (Strength)	55	69	98	58	72	102	60	75	106	62	78	110
	D+L (Deflection)	55	69	98	58	72	102	60	75	106	62	78	110
	L (Deflection)	55	69	98	58	72	102	60	75	106	62	78	110
23' - 0"	D+L (Strength)	48	59	85	50	62	89	52	64	93	54	67	96
	D+L (Deflection)	48	59	85	50	62	89	52	64	93	54	67	96
	L (Deflection)	48	59	85	50	62	89	52	64	93	54	67	96
24' - 0"	D+L (Strength)	41	51	75	42	53	78	40	55	81	42	57	84
	D+L (Deflection)	41	51	73	42	53	78	40	55	81	42	57	84
	L (Deflection)	41	51	73	42	53	78	40	55	81	42	57	84
25' - 0"	D+L (Strength)	28	43	66	30	45	68	32	47	71	33	49	74
	D+L (Deflection)	28	43	66	30	45	68	32	47	71	33	49	74
	L (Deflection)	28	43	66	30	45	68	32	47	71	33	49	74

MAXIMUM UNSHORED CONSTRUCTION CLEAR SPANS

	10' - 2"	12' - 6"	14' - 9"	10' - 0"	12' - 3"	14' - 6"	9' - 10"	12' - 1"	14' - 3"	9' - 9"	11' - 11"	14' - 1"
1span												
2span												
3span												
cantilever												
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_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
- f_c 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.

115 PCF CONCRETE