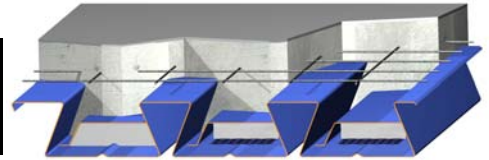


SECTION PROPERTIES

fy=40 ksi

GAGE	Wd	I _b	S _p	S _n	Rbe			Rbi		
					2"	3"	4"	4"	5"	6"
20	3.07	1.803	0.747	0.803	1043	1195	1324	2138	2300	2446
18	4.06	2.450	1.080	1.181	1761	2006	2212	3554	3810	4041
16	5.12	3.122	1.466	1.522	2710	3070	3374	5412	5784	6120



SIMPLE SPAN - MAXIMUM SUPERIMPOSED LRFD 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"	λ _p D+λ _L L (Strength)	218	266	352	232	285	374	246	295	397	260	304	400
	D+L (Deflection)	218	266	352	232	285	374	246	295	397	260	304	400
	L (Deflection)	190	219	250	214	246	278	241	276	311	260	304	347
14' - 0"	λ _p D+λ _L L (Strength)	182	212	289	194	226	309	205	232	333	217	268	346
	D+L (Deflection)	182	212	289	194	226	309	205	232	333	217	268	346
	L (Deflection)	152	175	200	171	197	223	193	221	249	216	248	278
15' - 0"	λ _p D+λ _L L (Strength)	153	169	237	163	201	253	173	213	270	182	225	279
	D+L (Deflection)	145	169	237	163	197	253	173	213	270	182	225	279
	L (Deflection)	123	143	163	139	160	181	157	180	202	176	201	226
16' - 0"	λ _p D+λ _L L (Strength)	130	160	195	138	170	206	146	181	233	154	191	246
	D+L (Deflection)	113	135	195	130	155	206	146	176	203	154	191	230
	L (Deflection)	102	118	134	115	132	149	129	148	167	145	166	186
17' - 0"	λ _p D+λ _L L (Strength)	111	137	178	118	145	189	125	154	201	132	162	212
	D+L (Deflection)	87	106	126	101	122	142	117	139	161	132	159	183
	L (Deflection)	85	98	112	96	110	124	108	124	139	121	138	155
18' - 0"	λ _p D+λ _L L (Strength)	95	117	154	101	124	164	107	132	173	113	139	183
	D+L (Deflection)	67	83	99	79	96	113	91	110	129	105	126	146
	L (Deflection)	67	83	94	79	93	105	91	104	117	102	116	131
19' - 0"	λ _p D+λ _L L (Strength)	81	100	134	86	107	142	92	113	151	97	119	159
	D+L (Deflection)	51	64	78	60	75	89	71	87	102	82	100	117
	L (Deflection)	51	64	78	60	75	89	71	87	100	82	99	111
20' - 0"	λ _p D+λ _L L (Strength)	70	86	117	74	92	124	79	97	131	83	103	139
	D+L (Deflection)	38	49	61	46	58	70	54	68	81	64	79	93
	L (Deflection)	38	49	61	46	58	70	54	68	81	64	79	93
21' - 0"	λ _p D+λ _L L (Strength)	60	75	102	64	79	109	68	84	115	72	89	122
	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"	λ _p D+λ _L L (Strength)	52	64	90	56	68	95	59	73	101	62	77	107
	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"	λ _p D+λ _L L (Strength)	45	56	79	48	59	84	51	63	89	54	66	94
	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"	λ _p D+λ _L L (Strength)	39	48	69	41	51	74	44	54	78	46	57	83
	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"	λ _p D+λ _L L (Strength)	34	41	61	36	44	65	38	47	69	40	49	73
	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	12' - 2"	15' - 0"	16' - 5"	11' - 10"	14' - 7"	16' - 2"	11' - 7"	14' - 2"	15' - 11"	11' - 3"	13' - 10"	15' - 9"	
2span	14' - 4"	17' - 11"	20' - 3"	14' - 0"	17' - 7"	19' - 10"	13' - 8"	17' - 3"	19' - 5"	13' - 4"	16' - 10"	19' - 1"	
3span	14' - 10"	18' - 3"	19' - 3"	14' - 5"	17' - 11"	19' - 0"	14' - 1"	17' - 8"	18' - 8"	13' - 9"	17' - 5"	18' - 6"	
cantilever	6' - 3"	8' - 0"	8' - 7"	6' - 1"	7' - 10"	8' - 5"	6' - 0"	7' - 8"	8' - 3"	5' - 10"	7' - 6"	8' - 2"	
cy/100sf	1.14						1.22			1.29			1.37

13' - 0"	λ _p D+λ _L L (Strength)	218	← Max. superimposed LRFD factored dead + live load (psf) (governed by strength limitation)
	D+L (Deflection)	218	← Max. superimposed LRFD unfactored dead + live load (psf) (governed by deflection limitation of L/240)
	L (Deflection)	190	← Max. superimposed LRFD 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 3000 psi
- λ_p, λ_L Load factors for dead and live loads, respectively, to be applied by Engineer in accordance with Building Codes
- 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.

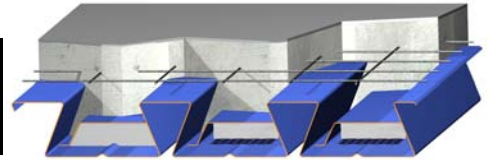
If welded wire fabric is not supplied per ACI requirements (0.00075"Ac), reduce loads by 10%. The section property table is based on 2001 AISI's Cold-Formed Steel Design Manual, 2004 Supplement. The live loads and unshored construction clear spans are based on the Steel Deck Institute's Composite Deck 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 _b	Sp	Sn	Rbe			Rbi		
					2"	3"	4"	4"	5"	6"
20	3.07	1.803	0.747	0.803	1043	1195	1324	2138	2300	2446
18	4.06	2.450	1.080	1.181	1761	2006	2212	3554	3810	4041
16	5.12	3.122	1.466	1.522	2710	3070	3374	5412	5784	6120



SIMPLE SPAN - MAXIMUM SUPERIMPOSED LRFD 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"	λ _p D+λ _L L (Strength)	274	313	400	287	321	400	301	328	400	315	390	400
	D+L (Deflection)	274	313	400	287	321	400	301	328	400	315	390	400
	L (Deflection)	274	313	386	287	321	400	301	328	400	315	390	400
14' - 0"	λ _p D+λ _L L (Strength)	228	282	358	240	297	370	251	311	381	263	325	391
	D+L (Deflection)	228	282	358	240	297	370	251	311	381	263	325	391
	L (Deflection)	228	276	309	240	297	343	251	311	379	263	325	391
15' - 0"	λ _p D+λ _L L (Strength)	192	237	287	202	249	295	211	261	302	221	273	308
	D+L (Deflection)	192	237	287	202	249	295	211	261	302	221	273	308
	L (Deflection)	192	224	251	202	249	279	211	261	302	221	273	308
16' - 0"	λ _p D+λ _L L (Strength)	163	201	259	171	211	273	179	221	286	187	231	299
	D+L (Deflection)	163	201	259	171	211	273	179	221	286	187	231	299
	L (Deflection)	162	185	207	171	205	230	179	221	254	187	231	280
17' - 0"	λ _p D+λ _L L (Strength)	139	171	223	146	180	234	153	188	246	160	197	257
	D+L (Deflection)	139	171	207	146	180	233	153	188	246	160	197	257
	L (Deflection)	135	154	173	146	171	192	153	188	212	160	197	233
18' - 0"	λ _p D+λ _L L (Strength)	119	146	193	125	154	203	131	161	213	137	169	222
	D+L (Deflection)	119	144	166	125	154	187	131	161	211	137	169	222
	L (Deflection)	114	130	145	125	144	161	131	160	178	137	169	197
19' - 0"	λ _p D+λ _L L (Strength)	102	126	168	107	132	176	112	138	185	117	145	193
	D+L (Deflection)	95	115	133	107	130	151	112	138	170	117	145	191
	L (Deflection)	95	110	124	107	123	137	112	136	152	117	145	167
20' - 0"	λ _p D+λ _L L (Strength)	88	108	146	92	114	154	97	119	161	101	125	168
	D+L (Deflection)	74	91	107	86	104	122	97	118	138	101	125	155
	L (Deflection)	74	91	106	86	104	118	97	116	130	101	125	143
21' - 0"	λ _p D+λ _L L (Strength)	76	93	128	80	98	135	83	103	141	87	108	147
	D+L (Deflection)	57	72	85	67	83	98	77	95	111	87	108	126
	L (Deflection)	57	72	85	67	83	98	77	95	111	87	108	124
22' - 0"	λ _p D+λ _L L (Strength)	65	81	112	69	85	118	72	89	124	75	93	129
	D+L (Deflection)	43	56	67	51	65	78	60	75	89	70	86	102
	L (Deflection)	43	56	67	51	65	78	60	75	89	70	86	102
23' - 0"	λ _p D+λ _L L (Strength)	57	70	99	59	73	104	62	77	109	65	80	114
	D+L (Deflection)	32	42	53	38	50	61	46	59	71	54	68	82
	L (Deflection)	32	42	53	38	50	61	46	59	71	54	68	82
24' - 0"	λ _p D+λ _L L (Strength)	49	60	87	51	63	91	54	66	96	56	69	100
	D+L (Deflection)	22	31	40	27	38	48	34	45	56	40	53	65
	L (Deflection)	22	31	40	27	38	48	34	45	56	40	53	65
25' - 0"	λ _p D+λ _L L (Strength)	42	52	77	44	55	81	46	57	85	46	60	88
	D+L (Deflection)	14	22	29	18	27	36	23	33	43	29	40	51
	L (Deflection)	14	22	29	18	27	36	23	33	43	29	40	51
MAXIMUM UNSHORED CONSTRUCTION CLEAR SPANS													
1span	11' - 0"	13' - 6"	15' - 7"	10' - 10"	13' - 3"	15' - 4"	10' - 7"	13' - 0"	15' - 2"	10' - 4"	12' - 9"	15' - 0"	
2span	13' - 0"	16' - 7"	18' - 8"	12' - 9"	16' - 3"	18' - 4"	12' - 6"	16' - 0"	18' - 1"	12' - 3"	15' - 8"	17' - 9"	
3span	13' - 6"	17' - 1"	18' - 3"	13' - 3"	16' - 10"	18' - 0"	12' - 11"	16' - 6"	17' - 10"	12' - 8"	16' - 3"	17' - 7"	
cantilever	5' - 9"	7' - 4"	8' - 0"	5' - 8"	7' - 3"	7' - 11"	5' - 7"	7' - 1"	7' - 9"	5' - 6"	7' - 0"	7' - 8"	
cy/100sf		1.45		1.52		1.60		1.68					

13' - 0"	λ _p D+λ _L L (Strength)	274	← Max. superimposed LRFD factored dead + live load (psf) (governed by strength limitation)
	D+L (Deflection)	274	← Max. superimposed LRFD unfactored dead + live load (psf) (governed by deflection limitation of L/240)
	L (Deflection)	274	← Max. superimposed LRFD 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
- λ_p, λ_L Load factors for dead and live loads, respectively, to be applied by Engineer in accordance with Building Codes
- 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.

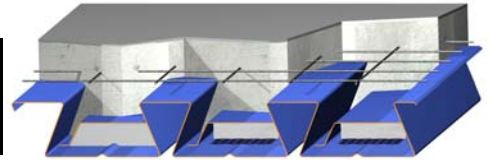
If welded wire fabric is not supplied per ACI requirements (0.00075"Ac), reduce loads by 10%. The section property table is based on 2001 AISI's Cold-Formed Steel Design Manual, 2004 Supplement. The live loads and unshored construction clear spans are based on the Steel Deck Institute's Composite Deck 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 _b	S _p	S _n	Rbe			Rbi		
					2"	3"	4"	4"	5"	6"
20	3.07	1.803	0.747	0.803	1043	1195	1324	2138	2300	2446
18	4.06	2.450	1.080	1.181	1761	2006	2212	3554	3810	4041
16	5.12	3.122	1.466	1.522	2710	3070	3374	5412	5784	6120



SIMPLE SPAN - MAXIMUM SUPERIMPOSED LRFD 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"	λ _p D+λ _L L (Strength)	329	400	400	343	400	400	356	400	400	370	400	400
	D+L (Deflection)	329	400	400	343	400	400	356	400	400	370	400	400
	L (Deflection)	329	400	400	343	400	400	356	400	400	370	400	400
14' - 0"	λ _p D+λ _L L (Strength)	274	339	400	286	353	400	297	368	400	309	382	400
	D+L (Deflection)	274	339	400	286	353	400	297	368	400	309	382	400
	L (Deflection)	274	339	400	286	353	400	297	368	400	309	382	400
15' - 0"	λ _p D+λ _L L (Strength)	231	285	365	240	297	380	250	309	396	260	321	400
	D+L (Deflection)	231	285	365	240	297	380	250	309	396	260	321	400
	L (Deflection)	231	285	365	240	297	380	250	309	396	260	321	400
16' - 0"	λ _p D+λ _L L (Strength)	195	242	312	204	252	325	212	262	338	220	272	351
	D+L (Deflection)	195	242	312	204	252	325	212	262	338	220	272	351
	L (Deflection)	195	242	308	204	252	325	212	262	338	220	272	351
17' - 0"	λ _p D+λ _L L (Strength)	167	206	268	174	214	280	181	223	291	188	232	302
	D+L (Deflection)	167	206	268	174	214	280	181	223	291	188	232	302
	L (Deflection)	167	206	257	174	214	280	181	223	291	188	232	302
18' - 0"	λ _p D+λ _L L (Strength)	143	176	232	149	183	242	155	191	252	161	198	261
	D+L (Deflection)	143	176	232	149	183	242	155	191	252	161	198	261
	L (Deflection)	143	176	216	149	183	237	155	191	252	161	198	261
19' - 0"	λ _p D+λ _L L (Strength)	122	151	202	128	158	210	133	164	219	138	170	227
	D+L (Deflection)	122	151	202	128	158	210	133	164	219	138	170	227
	L (Deflection)	122	151	184	128	158	201	133	164	219	138	170	227
20' - 0"	λ _p D+λ _L L (Strength)	106	130	176	110	136	183	114	141	191	119	147	198
	D+L (Deflection)	106	130	174	110	136	183	114	141	191	119	147	198
	L (Deflection)	106	130	158	110	136	173	114	141	189	119	147	198
21' - 0"	λ _p D+λ _L L (Strength)	91	112	154	95	117	160	99	122	167	103	127	173
	D+L (Deflection)	91	112	142	95	117	159	99	122	167	103	127	173
	L (Deflection)	91	112	136	95	117	149	99	122	163	103	127	173
22' - 0"	λ _p D+λ _L L (Strength)	79	97	135	82	101	141	85	105	147	89	109	152
	D+L (Deflection)	79	97	116	82	101	130	85	105	146	89	109	152
	L (Deflection)	79	97	116	82	101	130	85	105	142	89	109	152
23' - 0"	λ _p D+λ _L L (Strength)	68	84	119	71	87	124	74	91	129	73	95	134
	D+L (Deflection)	63	78	93	71	87	106	74	91	119	73	95	134
	L (Deflection)	63	78	93	71	87	106	74	91	119	73	95	134
24' - 0"	λ _p D+λ _L L (Strength)	59	73	105	58	76	109	60	79	114	63	82	118
	D+L (Deflection)	48	62	75	56	71	85	60	79	97	63	82	109
	L (Deflection)	48	62	75	56	71	85	60	79	97	63	82	109
25' - 0"	λ _p D+λ _L L (Strength)	48	63	92	50	65	96	52	68	100	54	71	104
	D+L (Deflection)	35	47	59	42	55	68	50	64	78	54	71	89
	L (Deflection)	35	47	59	42	55	68	50	64	78	54	71	89

MAXIMUM UNSHORED CONSTRUCTION CLEAR SPANS

	10' - 2"	12' - 6"	14' - 8"	10' - 0"	12' - 3"	14' - 5"	9' - 10"	12' - 1"	14' - 3"	9' - 9"	11' - 11"	14' - 1"
1span	10' - 2"	12' - 6"	14' - 8"	10' - 0"	12' - 3"	14' - 5"	9' - 10"	12' - 1"	14' - 3"	9' - 9"	11' - 11"	14' - 1"
2span	12' - 0"	15' - 5"	17' - 6"	11' - 9"	15' - 1"	17' - 3"	11' - 7"	14' - 10"	16' - 11"	11' - 4"	14' - 7"	16' - 8"
3span	12' - 5"	15' - 11"	17' - 5"	12' - 3"	15' - 8"	17' - 3"	12' - 0"	15' - 5"	17' - 1"	11' - 9"	15' - 1"	16' - 11"
cantilever	5' - 5"	6' - 10"	7' - 7"	5' - 4"	6' - 9"	7' - 5"	5' - 3"	6' - 8"	7' - 4"	5' - 2"	6' - 7"	7' - 3"
cy/100sf	1.76			1.83			1.91			1.99		

13' - 0"	λ _p D+λ _L L (Strength)	329	← Max. superimposed LRFD factored dead + live load (psf) (governed by strength limitation)
	D+L (Deflection)	329	← Max. superimposed LRFD unfactored dead + live load (psf) (governed by deflection limitation of L/240)
	L (Deflection)	329	← Max. superimposed LRFD 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 3000 psi
- λ_p, λ_L Load factors for dead and live loads, respectively, to be applied by Engineer in accordance with Building Codes

- 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