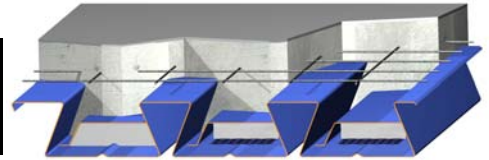


SECTION PROPERTIES

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" (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"	λ _p D+λ _L L (Strength)	219	267	352	233	286	374	247	302	397	261	313	400
	D+L (Deflection)	219	267	352	233	286	374	247	302	397	261	313	400
	L (Deflection)	178	207	237	201	231	263	225	259	292	252	289	325
14' - 0"	λ _p D+λ _L L (Strength)	183	214	289	195	229	308	206	240	331	218	247	352
	D+L (Deflection)	177	214	285	195	229	308	206	240	331	218	247	352
	L (Deflection)	142	166	190	161	185	210	180	207	234	202	232	260
15' - 0"	λ _p D+λ _L L (Strength)	154	172	239	164	183	253	174	214	271	183	226	287
	D+L (Deflection)	137	172	231	157	183	253	174	210	271	183	226	287
	L (Deflection)	116	135	154	131	151	171	147	169	190	164	188	212
16' - 0"	λ _p D+λ _L L (Strength)	131	161	198	139	171	208	147	182	221	156	192	233
	D+L (Deflection)	106	128	191	122	146	208	140	166	221	156	188	233
	L (Deflection)	95	111	127	108	124	141	121	139	157	135	155	174
17' - 0"	λ _p D+λ _L L (Strength)	112	137	179	119	146	190	126	155	202	133	164	213
	D+L (Deflection)	82	101	120	95	115	135	110	131	152	125	149	172
	L (Deflection)	79	92	106	90	103	117	101	116	131	113	129	145
18' - 0"	λ _p D+λ _L L (Strength)	96	118	155	102	125	165	108	133	174	114	140	184
	D+L (Deflection)	64	79	95	74	90	107	86	104	121	99	119	138
	L (Deflection)	64	78	89	74	87	99	85	98	110	95	109	123
19' - 0"	λ _p D+λ _L L (Strength)	82	101	135	87	108	143	93	114	152	98	120	160
	D+L (Deflection)	48	61	75	57	71	85	67	82	97	77	94	110
	L (Deflection)	48	61	75	57	71	84	67	82	94	77	93	104
20' - 0"	λ _p D+λ _L L (Strength)	71	87	118	75	93	125	80	98	132	84	104	140
	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"	λ _p D+λ _L L (Strength)	61	75	103	65	80	110	69	85	116	73	90	123
	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"	λ _p D+λ _L L (Strength)	53	65	90	56	69	96	60	74	102	63	78	108
	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"	λ _p D+λ _L L (Strength)	46	57	80	49	60	85	52	64	90	55	67	95
	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"	λ _p D+λ _L L (Strength)	40	49	70	42	52	75	45	55	79	47	58	84
	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"	λ _p D+λ _L L (Strength)	34	42	62	37	45	66	39	48	70	41	50	74
	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' - 7"	15' - 5"	16' - 9"	12' - 3"	15' - 1"	16' - 6"	12' - 0"	14' - 9"	16' - 3"	11' - 9"	14' - 5"	16' - 1"	
2span	14' - 9"	18' - 6"	20' - 10"	14' - 5"	18' - 1"	20' - 5"	14' - 1"	17' - 9"	20' - 0"	13' - 9"	17' - 4"	19' - 7"	
3span	15' - 3"	18' - 7"	19' - 7"	14' - 11"	18' - 4"	19' - 4"	14' - 7"	18' - 1"	19' - 1"	14' - 3"	17' - 10"	18' - 10"	
cantilever	6' - 5"	8' - 3"	8' - 10"	6' - 3"	8' - 0"	8' - 8"	6' - 2"	7' - 11"	8' - 6"	6' - 0"	7' - 9"	8' - 4"	
cy/100sf	1.14						1.22			1.29			1.37

13' - 0"	λ _p D+λ _L L (Strength)	219	← Max. superimposed LRFD factored dead + live load (psf) (governed by strength limitation)
	D+L (Deflection)	219	← Max. superimposed LRFD unfactored dead + live load (psf) (governed by deflection limitation of L/240)
	L (Deflection)	178	← 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.

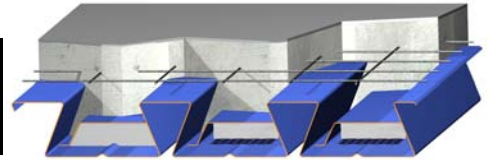
If welded wire fabric is not supplied per ACI requirements (0.00075"Ac), reduce loads by 10%. The section property table is based on 2001 AISI's Cold-Formed Steel Design Manual, 2004 Supplement. The live loads and unshored construction clear spans are based on the Steel Deck Institute's Composite Deck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

110 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)		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"	λ _p D+λ _L L (Strength)	275	324	400	289	333	400	302	342	400	316	350	400
	D+L (Deflection)	275	324	400	289	333	400	302	342	400	316	350	400
	L (Deflection)	275	322	362	289	333	400	302	342	400	316	350	400
14' - 0"	λ _p D+λ _L L (Strength)	229	253	366	241	298	379	253	312	391	264	326	400
	D+L (Deflection)	229	253	366	241	298	379	253	312	391	264	326	400
	L (Deflection)	225	253	290	241	286	321	253	312	355	264	326	391
15' - 0"	λ _p D+λ _L L (Strength)	193	238	296	203	250	305	213	262	314	222	275	321
	D+L (Deflection)	193	238	296	203	250	305	213	262	314	222	275	321
	L (Deflection)	183	210	235	203	233	261	213	258	288	222	275	318
16' - 0"	λ _p D+λ _L L (Strength)	164	202	261	172	212	274	180	222	287	189	233	300
	D+L (Deflection)	164	202	243	172	212	272	180	222	287	189	233	300
	L (Deflection)	151	173	194	168	192	215	180	212	238	189	233	262
17' - 0"	λ _p D+λ _L L (Strength)	140	172	224	147	181	236	154	190	247	161	198	258
	D+L (Deflection)	140	169	194	147	181	218	154	190	244	161	198	258
	L (Deflection)	126	144	162	140	160	179	154	177	198	161	195	218
18' - 0"	λ _p D+λ _L L (Strength)	120	148	194	126	155	204	132	162	214	138	170	224
	D+L (Deflection)	113	135	156	126	153	176	132	162	198	138	170	221
	L (Deflection)	106	121	136	118	135	151	131	149	167	138	164	184
19' - 0"	λ _p D+λ _L L (Strength)	103	127	169	108	133	177	113	140	186	119	146	194
	D+L (Deflection)	89	108	126	102	122	142	113	138	160	119	146	179
	L (Deflection)	89	103	116	100	115	128	111	127	142	119	140	156
20' - 0"	λ _p D+λ _L L (Strength)	89	109	147	93	115	155	98	120	162	102	126	170
	D+L (Deflection)	70	86	101	80	98	115	92	111	130	102	126	146
	L (Deflection)	70	86	99	80	98	110	92	109	122	102	120	134
21' - 0"	λ _p D+λ _L L (Strength)	77	95	129	81	99	136	85	104	142	89	109	149
	D+L (Deflection)	54	68	81	63	78	92	73	89	105	83	101	119
	L (Deflection)	54	68	81	63	78	92	73	89	105	83	101	116
22' - 0"	λ _p D+λ _L L (Strength)	67	82	113	70	86	119	73	90	125	77	94	131
	D+L (Deflection)	41	53	64	48	61	74	57	71	84	65	81	96
	L (Deflection)	41	53	64	48	61	74	57	71	84	65	81	96
23' - 0"	λ _p D+λ _L L (Strength)	58	71	100	61	75	105	63	78	110	66	82	115
	D+L (Deflection)	30	40	50	36	47	58	43	56	67	51	64	77
	L (Deflection)	30	40	50	36	47	58	43	56	67	51	64	77
24' - 0"	λ _p D+λ _L L (Strength)	50	61	88	52	65	93	55	68	97	58	71	102
	D+L (Deflection)	21	30	38	26	36	45	32	43	53	38	50	61
	L (Deflection)	21	30	38	26	36	45	32	43	53	38	50	61
25' - 0"	λ _p D+λ _L L (Strength)	43	53	78	45	56	82	48	59	86	50	61	90
	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' - 5"	14' - 1"	15' - 10"	11' - 2"	13' - 9"	15' - 8"	11' - 0"	13' - 6"	15' - 6"	10' - 9"	13' - 2"	15' - 4"	
2span	13' - 6"	17' - 1"	19' - 3"	13' - 3"	16' - 9"	18' - 11"	12' - 11"	16' - 6"	18' - 7"	12' - 9"	16' - 2"	18' - 4"	
3span	14' - 0"	17' - 7"	18' - 7"	13' - 8"	17' - 4"	18' - 4"	13' - 5"	17' - 0"	18' - 2"	13' - 2"	16' - 9"	18' - 0"	
cantilever	5' - 11"	7' - 7"	8' - 3"	5' - 10"	7' - 5"	8' - 1"	5' - 9"	7' - 4"	8' - 0"	5' - 8"	7' - 2"	7' - 10"	
cy/100sf	1.45			1.52			1.60			1.68			

13' - 0"	λ _p D+λ _L L (Strength)	275	← Max. superimposed LRFD factored dead + live load (psf) (governed by strength limitation)
	D+L (Deflection)	275	← Max. superimposed LRFD unfactored dead + live load (psf) (governed by deflection limitation of L/240)
	L (Deflection)	275	← 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.

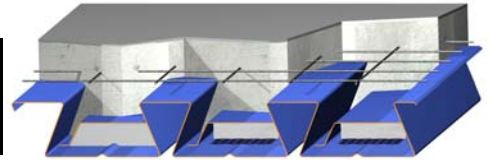
If welded wire fabric is not supplied per ACI requirements (0.00075"Ac), reduce loads by 10%. The section property table is based on 2001 AISI's Cold-Formed Steel Design Manual, 2004 Supplement. The live loads and unshored construction clear spans are based on the Steel Deck Institute's Composite Deck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

110 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" (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"	λ _p D+λ _L L (Strength)	330	400	400	344	400	400	358	400	400	372	400	400
	D+L (Deflection)	330	400	400	344	400	400	358	400	400	372	400	400
	L (Deflection)	330	400	400	344	400	400	358	400	400	372	400	400
14' - 0"	λ _p D+λ _L L (Strength)	276	341	400	287	355	400	299	369	400	310	383	400
	D+L (Deflection)	276	341	400	287	355	400	299	369	400	310	383	400
	L (Deflection)	276	341	400	287	355	400	299	369	400	310	383	400
15' - 0"	λ _p D+λ _L L (Strength)	232	287	328	242	299	335	252	311	397	261	323	400
	D+L (Deflection)	232	287	328	242	299	335	252	311	397	261	323	400
	L (Deflection)	232	287	328	242	299	335	252	311	397	261	323	400
16' - 0"	λ _p D+λ _L L (Strength)	197	243	313	205	253	326	213	263	340	222	273	353
	D+L (Deflection)	197	243	313	205	253	326	213	263	340	222	273	353
	L (Deflection)	197	243	288	205	253	315	213	263	340	222	273	353
17' - 0"	λ _p D+λ _L L (Strength)	168	207	270	175	216	281	182	224	292	189	233	304
	D+L (Deflection)	168	207	270	175	216	281	182	224	292	189	233	304
	L (Deflection)	168	207	240	175	216	263	182	224	287	189	233	304
18' - 0"	λ _p D+λ _L L (Strength)	144	177	233	150	185	243	156	192	253	162	200	263
	D+L (Deflection)	144	177	233	150	185	243	156	192	253	162	200	263
	L (Deflection)	144	177	202	150	185	221	156	192	242	162	200	263
19' - 0"	λ _p D+λ _L L (Strength)	124	152	203	129	159	211	134	165	220	139	172	229
	D+L (Deflection)	124	152	200	129	159	211	134	165	220	139	172	229
	L (Deflection)	124	152	172	129	159	188	134	165	206	139	172	224
20' - 0"	λ _p D+λ _L L (Strength)	107	132	177	111	137	185	116	143	192	120	148	200
	D+L (Deflection)	107	132	164	111	137	182	116	143	192	120	148	200
	L (Deflection)	107	132	147	111	137	161	116	143	176	120	148	192
21' - 0"	λ _p D+λ _L L (Strength)	92	114	155	96	118	162	100	123	168	104	128	175
	D+L (Deflection)	92	114	133	96	118	149	100	123	167	104	128	175
	L (Deflection)	92	114	127	96	118	139	100	123	152	104	128	166
22' - 0"	λ _p D+λ _L L (Strength)	80	98	136	83	103	142	87	107	148	90	111	154
	D+L (Deflection)	75	92	109	83	103	122	87	107	137	90	111	152
	L (Deflection)	75	92	109	83	103	121	87	107	132	90	111	144
23' - 0"	λ _p D+λ _L L (Strength)	69	85	120	72	89	125	75	92	130	78	96	135
	D+L (Deflection)	59	74	88	68	84	99	75	92	112	78	96	125
	L (Deflection)	59	74	88	68	84	99	75	92	112	78	96	125
24' - 0"	λ _p D+λ _L L (Strength)	60	74	106	63	77	111	65	80	115	65	83	119
	D+L (Deflection)	45	58	70	53	67	80	61	76	91	65	83	103
	L (Deflection)	45	58	70	53	67	80	61	76	91	65	83	103
25' - 0"	λ _p D+λ _L L (Strength)	52	64	94	51	67	98	53	69	102	55	72	106
	D+L (Deflection)	34	45	56	40	52	64	47	61	73	54	69	83
	L (Deflection)	34	45	56	40	52	64	47	61	73	54	69	83
MAXIMUM UNSHORED CONSTRUCTION CLEAR SPANS													
1span	10' - 7"	12' - 11"	15' - 2"	10' - 4"	12' - 9"	15' - 0"	10' - 2"	12' - 6"	14' - 9"	10' - 0"	12' - 3"	14' - 6"	
2span	12' - 6"	15' - 11"	18' - 0"	12' - 3"	15' - 8"	17' - 9"	12' - 0"	15' - 5"	17' - 6"	11' - 10"	15' - 2"	17' - 3"	
3span	12' - 11"	16' - 6"	17' - 9"	12' - 8"	16' - 3"	17' - 7"	12' - 6"	15' - 11"	17' - 5"	12' - 3"	15' - 8"	17' - 4"	
cantilever	5' - 7"	7' - 1"	7' - 9"	5' - 6"	7' - 0"	7' - 8"	5' - 5"	6' - 11"	7' - 7"	5' - 4"	6' - 9"	7' - 6"	
cy/100sf	1.76			1.83			1.91			1.99			

13' - 0"	λ _p D+λ _L L (Strength)	330	← Max. superimposed LRFD factored dead + live load (psf) (governed by strength limitation)
	D+L (Deflection)	330	← Max. superimposed LRFD unfactored dead + live load (psf) (governed by deflection limitation of L/240)
	L (Deflection)	330	← 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.

110 PCF CONCRETE