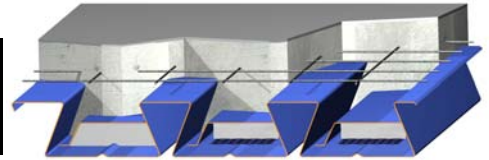


SECTION PROPERTIES

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" (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"	λ _p D+λ _L L (Strength)	219	266	352	233	287	374	247	299	397	260	309	400
	D+L (Deflection)	219	266	352	233	287	374	247	299	397	260	309	400
	L (Deflection)	184	213	243	207	239	270	233	268	301	260	299	336
14' - 0"	λ _p D+λ _L L (Strength)	183	213	289	194	228	309	206	236	333	217	242	349
	D+L (Deflection)	182	213	289	194	228	309	206	236	333	217	242	349
	L (Deflection)	147	171	195	166	191	216	187	214	241	209	240	269
15' - 0"	λ _p D+λ _L L (Strength)	154	171	238	163	202	253	173	214	271	183	226	283
	D+L (Deflection)	141	171	238	162	191	253	173	214	271	183	226	283
	L (Deflection)	120	139	158	135	155	176	152	174	196	170	195	219
16' - 0"	λ _p D+λ _L L (Strength)	130	161	196	139	171	207	147	181	221	155	191	247
	D+L (Deflection)	109	132	196	126	150	207	144	171	221	155	191	223
	L (Deflection)	99	114	131	111	128	145	125	144	162	140	161	180
17' - 0"	λ _p D+λ _L L (Strength)	111	137	178	118	146	190	125	154	201	132	163	212
	D+L (Deflection)	85	103	123	98	118	138	113	135	157	129	154	178
	L (Deflection)	82	95	109	93	107	121	104	120	135	117	134	150
18' - 0"	λ _p D+λ _L L (Strength)	95	117	154	101	125	164	107	132	174	113	140	184
	D+L (Deflection)	65	81	97	76	93	110	88	107	125	102	122	142
	L (Deflection)	65	80	92	76	90	102	88	101	114	98	113	127
19' - 0"	λ _p D+λ _L L (Strength)	82	101	134	87	107	143	92	114	151	97	120	160
	D+L (Deflection)	50	63	76	59	73	87	69	84	99	80	97	114
	L (Deflection)	50	63	76	59	73	87	69	84	97	80	96	108
20' - 0"	λ _p D+λ _L L (Strength)	71	87	117	75	92	125	79	98	132	84	103	139
	D+L (Deflection)	37	48	60	45	56	68	53	66	79	62	77	91
	L (Deflection)	37	48	60	45	56	68	53	66	79	62	77	91
21' - 0"	λ _p D+λ _L L (Strength)	61	75	103	65	80	109	69	84	116	72	89	122
	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"	λ _p D+λ _L L (Strength)	53	65	90	56	69	96	59	73	101	63	77	107
	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"	λ _p D+λ _L L (Strength)	46	56	79	48	60	84	51	63	89	54	67	94
	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"	λ _p D+λ _L L (Strength)	39	49	70	42	52	74	44	55	79	47	58	83
	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"	λ _p D+λ _L L (Strength)	34	42	62	36	45	66	38	47	69	41	50	73
	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' - 5"	15' - 3"	16' - 7"	12' - 1"	14' - 10"	16' - 4"	11' - 9"	14' - 6"	16' - 1"	11' - 6"	14' - 1"	15' - 11"	
2span	14' - 6"	18' - 2"	20' - 7"	14' - 2"	17' - 10"	20' - 1"	13' - 10"	17' - 6"	19' - 9"	13' - 7"	17' - 1"	19' - 4"	
3span	15' - 1"	18' - 5"	19' - 5"	14' - 8"	18' - 1"	19' - 2"	14' - 4"	17' - 10"	18' - 11"	14' - 0"	17' - 8"	18' - 8"	
cantilever	6' - 4"	8' - 1"	8' - 9"	6' - 2"	7' - 11"	8' - 7"	6' - 1"	7' - 9"	8' - 5"	5' - 11"	7' - 7"	8' - 3"	
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)	184	← 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.

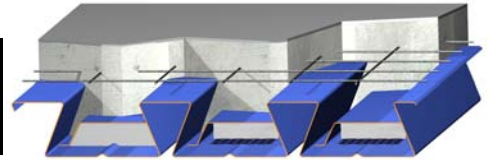
If welded wire fabric is not supplied per ACI requirements (0.00075"Ac), reduce loads by 10%. The section property table is based on 2001 AISI's Cold-Formed Steel Design Manual, 2004 Supplement. The live loads and unshored construction clear spans are based on the Steel Deck Institute's Composite Deck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

115 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" (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"	λ _p D+λ _L L (Strength)	274	318	400	288	327	400	302	335	400	316	390	400
	D+L (Deflection)	274	318	400	288	327	400	302	335	400	316	390	400
	L (Deflection)	274	318	374	288	327	400	302	335	400	316	390	400
14' - 0"	λ _p D+λ _L L (Strength)	229	283	362	240	297	374	252	311	386	263	326	398
	D+L (Deflection)	229	283	362	240	297	374	252	311	386	263	326	398
	L (Deflection)	229	267	299	240	296	332	252	311	367	263	326	398
15' - 0"	λ _p D+λ _L L (Strength)	193	238	292	202	250	300	212	262	308	222	274	315
	D+L (Deflection)	193	238	292	202	250	300	212	262	308	222	274	315
	L (Deflection)	190	217	243	202	241	270	212	262	298	222	274	315
16' - 0"	λ _p D+λ _L L (Strength)	163	201	260	171	212	273	180	222	286	188	232	299
	D+L (Deflection)	163	201	251	171	212	273	180	222	286	188	232	299
	L (Deflection)	156	179	201	171	199	222	180	220	246	188	232	271
17' - 0"	λ _p D+λ _L L (Strength)	139	172	224	146	180	235	153	189	246	160	198	258
	D+L (Deflection)	139	172	201	146	180	226	153	189	246	160	198	258
	L (Deflection)	130	149	167	145	166	185	153	183	205	160	198	226
18' - 0"	λ _p D+λ _L L (Strength)	119	147	194	125	154	203	131	162	213	137	169	223
	D+L (Deflection)	117	139	161	125	154	182	131	162	204	137	169	223
	L (Deflection)	110	126	141	122	139	156	131	154	173	137	169	190
19' - 0"	λ _p D+λ _L L (Strength)	102	126	168	108	133	177	113	139	185	118	145	194
	D+L (Deflection)	92	111	130	105	126	147	113	139	165	118	145	185
	L (Deflection)	92	107	120	104	119	133	113	131	147	118	145	162
20' - 0"	λ _p D+λ _L L (Strength)	88	109	147	93	114	154	97	120	162	102	125	169
	D+L (Deflection)	72	88	104	83	101	118	95	115	134	102	125	151
	L (Deflection)	72	88	103	83	101	114	95	113	126	102	124	139
21' - 0"	λ _p D+λ _L L (Strength)	76	94	129	80	99	135	84	104	142	88	108	148
	D+L (Deflection)	56	70	83	65	80	95	75	92	108	86	105	122
	L (Deflection)	56	70	83	65	80	95	75	92	108	86	105	120
22' - 0"	λ _p D+λ _L L (Strength)	66	81	113	69	85	119	73	90	124	76	94	130
	D+L (Deflection)	42	54	66	50	63	76	58	73	87	67	84	99
	L (Deflection)	42	54	66	50	63	76	58	73	87	67	84	99
23' - 0"	λ _p D+λ _L L (Strength)	57	70	99	60	74	104	63	77	109	66	81	114
	D+L (Deflection)	31	41	51	37	49	60	44	57	69	52	66	79
	L (Deflection)	31	41	51	37	49	60	44	57	69	52	66	79
24' - 0"	λ _p D+λ _L L (Strength)	49	61	88	52	64	92	54	67	96	57	70	101
	D+L (Deflection)	21	30	39	27	37	46	33	44	54	39	51	63
	L (Deflection)	21	30	39	27	37	46	33	44	54	39	51	63
25' - 0"	λ _p D+λ _L L (Strength)	43	53	77	45	55	81	47	58	85	49	61	89
	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' - 3"	13' - 9"	15' - 8"	11' - 0"	13' - 6"	15' - 6"	10' - 9"	13' - 3"	15' - 4"	10' - 7"	12' - 11"	15' - 2"	
2span	13' - 3"	16' - 10"	19' - 0"	13' - 0"	16' - 6"	18' - 8"	12' - 9"	16' - 2"	18' - 4"	12' - 6"	15' - 11"	18' - 0"	
3span	13' - 9"	17' - 5"	18' - 5"	13' - 5"	17' - 1"	18' - 2"	13' - 2"	16' - 9"	18' - 0"	12' - 11"	16' - 6"	17' - 10"	
cantilever	5' - 10"	7' - 6"	8' - 1"	5' - 9"	7' - 4"	8' - 0"	5' - 8"	7' - 3"	7' - 10"	5' - 7"	7' - 1"	7' - 9"	
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)
- 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.

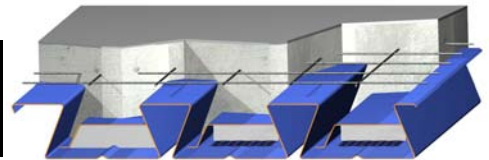
If welded wire fabric is not supplied per ACI requirements (0.00075"Ac), reduce loads by 10%. The section property table is based on 2001 AISI's Cold-Formed Steel Design Manual, 2004 Supplement. The live loads and unshored construction clear spans are based on the Steel Deck Institute's Composite Deck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

115 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" (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"	λ _p D+λ _L L (Strength)	330	400	400	343	400	400	357	400	400	371	400	400		
	D+L (Deflection)	330	400	400	343	400	400	357	400	400	371	400	400		
	L (Deflection)	330	400	400	343	400	400	357	400	400	371	400	400		
14' - 0"	λ _p D+λ _L L (Strength)	275	340	400	287	354	400	298	368	400	310	383	400		
	D+L (Deflection)	275	340	400	287	354	400	298	368	400	310	383	400		
	L (Deflection)	275	340	400	287	354	400	298	368	400	310	383	400		
15' - 0"	λ _p D+λ _L L (Strength)	231	286	321	241	298	381	251	310	396	261	322	400		
	D+L (Deflection)	231	286	321	241	298	381	251	310	396	261	322	400		
	L (Deflection)	231	286	321	241	298	381	251	310	396	261	322	400		
16' - 0"	λ _p D+λ _L L (Strength)	196	242	313	204	252	326	213	263	339	221	273	352		
	D+L (Deflection)	196	242	313	204	252	326	213	263	339	221	273	352		
	L (Deflection)	196	242	298	204	252	326	213	263	339	221	273	352		
17' - 0"	λ _p D+λ _L L (Strength)	167	206	269	174	215	280	181	224	292	188	232	303		
	D+L (Deflection)	167	206	269	174	215	280	181	224	292	188	232	303		
	L (Deflection)	167	206	248	174	215	272	181	224	292	188	232	303		
18' - 0"	λ _p D+λ _L L (Strength)	143	177	233	149	184	242	155	192	252	161	199	262		
	D+L (Deflection)	143	177	233	149	184	242	155	192	252	161	199	262		
	L (Deflection)	143	177	209	149	184	229	155	192	250	161	199	262		
19' - 0"	λ _p D+λ _L L (Strength)	123	152	202	128	158	211	133	165	219	139	171	228		
	D+L (Deflection)	123	152	202	128	158	211	133	165	219	139	171	228		
	L (Deflection)	123	152	178	128	158	195	133	165	213	139	171	228		
20' - 0"	λ _p D+λ _L L (Strength)	106	131	177	111	136	184	115	142	191	120	147	199		
	D+L (Deflection)	106	131	169	111	136	184	115	142	191	120	147	199		
	L (Deflection)	106	131	152	111	136	167	115	142	183	120	147	199		
21' - 0"	λ _p D+λ _L L (Strength)	92	113	155	96	118	161	99	123	168	103	127	174		
	D+L (Deflection)	92	113	138	96	118	154	99	123	168	103	127	174		
	L (Deflection)	92	113	132	96	118	144	99	123	158	103	127	172		
22' - 0"	λ _p D+λ _L L (Strength)	79	98	136	83	102	142	86	106	147	89	110	153		
	D+L (Deflection)	78	95	112	83	102	126	86	106	141	89	110	153		
	L (Deflection)	78	95	112	83	102	126	86	106	137	89	110	150		
23' - 0"	λ _p D+λ _L L (Strength)	69	85	120	72	88	125	74	92	130	77	95	135		
	D+L (Deflection)	61	76	91	70	87	103	74	92	116	77	95	129		
	L (Deflection)	61	76	91	70	87	103	74	92	116	77	95	129		
24' - 0"	λ _p D+λ _L L (Strength)	59	73	105	62	76	110	61	79	114	64	82	119		
	D+L (Deflection)	46	60	73	54	69	83	61	79	94	64	82	106		
	L (Deflection)	46	60	73	54	69	83	61	79	94	64	82	106		
25' - 0"	λ _p D+λ _L L (Strength)	48	63	93	51	66	97	53	69	101	55	71	105		
	D+L (Deflection)	34	46	57	41	54	66	48	62	76	55	71	86		
	L (Deflection)	34	46	57	41	54	66	48	62	76	55	71	86		
MAXIMUM UNSHORED CONSTRUCTION CLEAR SPANS															
1span	10' - 4"	12' - 8"	15' - 0"	10' - 2"	12' - 6"	14' - 8"	10' - 0"	12' - 3"	14' - 5"	9' - 10"	12' - 1"	14' - 3"			
2span	12' - 3"	15' - 8"	17' - 9"	12' - 0"	15' - 5"	17' - 6"	11' - 10"	15' - 2"	17' - 2"	11' - 7"	14' - 11"	16' - 11"			
3span	12' - 8"	16' - 3"	17' - 7"	12' - 5"	15' - 11"	17' - 5"	12' - 3"	15' - 8"	17' - 3"	12' - 0"	15' - 5"	17' - 1"			
cantilever	5' - 6"	7' - 0"	7' - 8"	5' - 5"	6' - 10"	7' - 7"	5' - 4"	6' - 9"	7' - 6"	5' - 3"	6' - 8"	7' - 4"			
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.

115 PCF CONCRETE