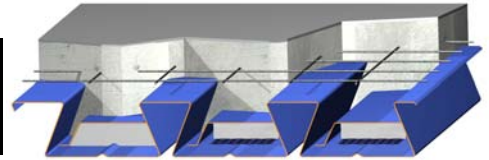


SECTION PROPERTIES

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" (44.56)			5.75" (47.58)			6" (50.6)			6.25" (53.62)		
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)	216	259	352	230	266	374	244	273	397	257	319	400
	D+L (Deflection)	216	259	352	230	266	374	244	273	397	257	319	400
	L (Deflection)	216	251	283	230	266	319	244	273	358	257	319	400
14' - 0"	λ _p D+λ _L L (Strength)	180	223	288	191	237	306	203	251	316	214	265	326
	D+L (Deflection)	180	223	288	191	237	306	203	251	316	214	265	326
	L (Deflection)	176	201	227	191	227	255	203	251	286	214	265	320
15' - 0"	λ _p D+λ _L L (Strength)	151	187	233	161	199	245	170	211	251	180	223	257
	D+L (Deflection)	151	187	233	161	199	245	170	211	251	180	223	257
	L (Deflection)	143	164	184	161	185	207	170	208	233	180	223	257
16' - 0"	λ _p D+λ _L L (Strength)	128	158	205	136	168	218	144	178	231	152	188	244
	D+L (Deflection)	128	154	178	136	168	204	144	178	231	152	188	244
	L (Deflection)	118	135	152	133	152	171	144	171	192	152	188	215
17' - 0"	λ _p D+λ _L L (Strength)	108	134	176	115	143	186	122	151	198	129	160	209
	D+L (Deflection)	99	120	140	115	139	161	122	151	184	129	160	209
	L (Deflection)	98	112	127	111	127	142	122	143	160	129	160	179
18' - 0"	λ _p D+λ _L L (Strength)	93	115	152	98	122	158	104	129	170	110	136	181
	D+L (Deflection)	76	93	110	90	109	127	104	126	146	110	136	167
	L (Deflection)	76	93	107	90	107	120	104	120	135	110	135	151
19' - 0"	λ _p D+λ _L L (Strength)	79	98	132	84	104	133	89	111	144	94	117	156
	D+L (Deflection)	58	72	86	69	85	100	81	99	116	94	114	133
	L (Deflection)	58	72	86	69	85	100	81	99	115	94	114	128
20' - 0"	λ _p D+λ _L L (Strength)	68	84	113	72	90	113	76	95	122	81	100	132
	D+L (Deflection)	43	55	67	52	65	78	62	77	92	73	90	106
	L (Deflection)	43	55	67	52	65	78	62	77	92	73	90	106
21' - 0"	λ _p D+λ _L L (Strength)	58	72	95	62	77	95	66	82	103	69	86	112
	D+L (Deflection)	30	41	51	38	49	61	46	59	72	55	70	84
	L (Deflection)	30	41	51	38	49	61	46	59	72	55	70	84
22' - 0"	λ _p D+λ _L L (Strength)	50	62	80	53	66	79	56	70	86	60	74	94
	D+L (Deflection)	20	29	38	26	36	46	33	44	55	41	53	65
	L (Deflection)	20	29	38	26	36	46	33	44	55	41	53	65
23' - 0"	λ _p D+λ _L L (Strength)	41	51	67	45	56	66	48	60	72	51	64	79
	D+L (Deflection)	12	19	27	17	25	34	22	32	41	28	39	50
	L (Deflection)	12	19	27	17	25	34	22	32	41	28	39	50
24' - 0"	λ _p D+λ _L L (Strength)	31	41	56	35	45	54	39	50	59	43	55	65
	D+L (Deflection)	5	11	18	8	16	23	13	21	29	18	28	37
	L (Deflection)	5	11	18	8	16	23	13	21	29	18	28	37
25' - 0"	λ _p D+λ _L L (Strength)	23	32	45	26	36	44	29	39	48	35	44	53
	D+L (Deflection)	-1	4	10	2	8	14	5	13	20	10	18	26
	L (Deflection)	-1	4	10	2	8	14	5	13	20	10	18	26
MAXIMUM UNSHORED CONSTRUCTION CLEAR SPANS													
1span	11' - 3"	13' - 10"	15' - 9"	11' - 0"	13' - 6"	15' - 6"	10' - 8"	13' - 1"	15' - 3"	10' - 5"	12' - 9"	15' - 1"	
2span	13' - 4"	16' - 10"	19' - 0"	13' - 0"	16' - 6"	18' - 7"	12' - 8"	16' - 1"	18' - 3"	12' - 4"	15' - 9"	17' - 10"	
3span	13' - 9"	17' - 5"	18' - 5"	13' - 5"	17' - 0"	18' - 2"	13' - 1"	16' - 8"	17' - 11"	12' - 9"	16' - 4"	17' - 8"	
cantilever	5' - 10"	7' - 6"	8' - 2"	5' - 9"	7' - 4"	8' - 0"	5' - 7"	7' - 2"	7' - 10"	5' - 6"	7' - 0"	7' - 8"	
cy/100sf	1.14						1.22			1.29			1.37

13' - 0"	λ _p D+λ _L L (Strength)	216	← Max. superimposed LRFD factored dead + live load (psf) (governed by strength limitation)
	D+L (Deflection)	216	← Max. superimposed LRFD unfactored dead + live load (psf) (governed by deflection limitation of L/240)
	L (Deflection)	216	← 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.

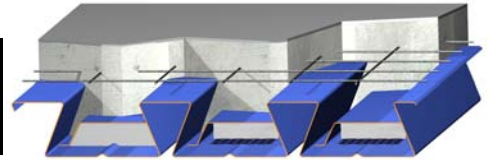
If welded wire fabric is not supplied per ACI requirements (0.00075"Ac), reduce loads by 10%. The section property table is based on 2001 AISI's Cold-Formed Steel Design Manual, 2004 Supplement. The live loads and unshored construction clear spans are based on the Steel Deck Institute's Composite Deck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

145 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" (56.64)			6.75" (59.66)			7" (62.68)			7.25" (65.7)		
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)	271	336	400	285	353	400	298	370	400	312	387	400
	D+L (Deflection)	271	336	400	285	353	400	298	370	400	312	387	400
	L (Deflection)	271	336	400	285	353	400	298	370	400	312	387	400
14' - 0"	λ _p D+λ _L L (Strength)	226	280	334	237	294	342	248	308	349	260	322	355
	D+L (Deflection)	226	280	334	237	294	342	248	308	349	260	322	355
	L (Deflection)	226	280	334	237	294	342	248	308	349	260	322	355
15' - 0"	λ _p D+λ _L L (Strength)	189	235	301	199	246	316	208	258	331	218	270	347
	D+L (Deflection)	189	235	301	199	246	316	208	258	331	218	270	347
	L (Deflection)	189	235	290	199	246	316	208	258	331	218	270	347
16' - 0"	λ _p D+λ _L L (Strength)	160	198	257	168	208	270	176	218	283	184	228	296
	D+L (Deflection)	160	198	257	168	208	270	176	218	283	184	228	296
	L (Deflection)	160	198	239	168	208	266	176	218	283	184	228	296
17' - 0"	λ _p D+λ _L L (Strength)	136	168	220	143	177	232	150	185	243	156	194	254
	D+L (Deflection)	136	168	220	143	177	232	150	185	243	156	194	254
	L (Deflection)	136	168	200	143	177	222	150	185	243	156	194	254
18' - 0"	λ _p D+λ _L L (Strength)	116	144	190	122	151	200	128	158	209	133	165	219
	D+L (Deflection)	116	144	190	122	151	200	128	158	209	133	165	219
	L (Deflection)	116	144	168	122	151	187	128	158	207	133	165	219
19' - 0"	λ _p D+λ _L L (Strength)	99	123	165	104	129	173	109	135	182	114	142	190
	D+L (Deflection)	99	123	153	104	129	173	109	135	182	114	142	190
	L (Deflection)	99	123	143	104	129	159	109	135	176	114	142	190
20' - 0"	λ _p D+λ _L L (Strength)	85	106	143	89	111	151	94	116	158	98	122	165
	D+L (Deflection)	85	104	122	89	111	139	94	116	158	98	122	165
	L (Deflection)	85	104	122	89	111	136	94	116	151	98	122	165
21' - 0"	λ _p D+λ _L L (Strength)	73	91	121	77	95	132	80	100	138	84	104	144
	D+L (Deflection)	65	81	97	77	94	112	80	100	127	84	104	144
	L (Deflection)	65	81	97	77	94	112	80	100	127	84	104	144
22' - 0"	λ _p D+λ _L L (Strength)	63	78	102	66	82	111	69	86	121	72	90	126
	D+L (Deflection)	49	63	76	58	74	89	69	86	102	72	90	117
	L (Deflection)	49	63	76	58	74	89	69	86	102	72	90	117
23' - 0"	λ _p D+λ _L L (Strength)	54	67	86	57	70	94	59	74	102	59	77	110
	D+L (Deflection)	35	47	59	43	57	69	52	67	81	59	77	93
	L (Deflection)	35	47	59	43	57	69	52	67	81	59	77	93
24' - 0"	λ _p D+λ _L L (Strength)	46	58	71	45	60	78	48	63	85	50	66	93
	D+L (Deflection)	24	34	45	31	42	53	38	51	63	46	60	73
	L (Deflection)	24	34	45	31	42	53	38	51	63	46	60	73
25' - 0"	λ _p D+λ _L L (Strength)	36	49	58	38	52	64	40	54	71	42	57	77
	D+L (Deflection)	14	23	32	20	30	40	26	37	48	33	45	57
	L (Deflection)	14	23	32	20	30	40	26	37	48	33	45	57
MAXIMUM UNSHORED CONSTRUCTION CLEAR SPANS													
1span	10' - 2"	12' - 6"	14' - 9"	10' - 0"	12' - 3"	14' - 5"	9' - 10"	12' - 0"	14' - 2"	9' - 8"	11' - 10"	14' - 0"	
2span	12' - 0"	15' - 5"	17' - 6"	11' - 9"	15' - 1"	17' - 2"	11' - 6"	14' - 9"	16' - 10"	11' - 3"	14' - 6"	16' - 7"	
3span	12' - 6"	16' - 0"	17' - 6"	12' - 2"	15' - 7"	17' - 3"	11' - 11"	15' - 4"	17' - 1"	11' - 8"	15' - 0"	16' - 10"	
cantilever	5' - 5"	6' - 11"	7' - 7"	5' - 4"	6' - 9"	7' - 5"	5' - 3"	6' - 8"	7' - 4"	5' - 2"	6' - 6"	7' - 3"	
cy/100sf	1.45			1.52			1.60			1.68			

13' - 0"	λ _p D+λ _L L (Strength)	271	← Max. superimposed LRFD factored dead + live load (psf) (governed by strength limitation)
	D+L (Deflection)	271	← Max. superimposed LRFD unfactored dead + live load (psf) (governed by deflection limitation of L/240)
	L (Deflection)	271	← 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.

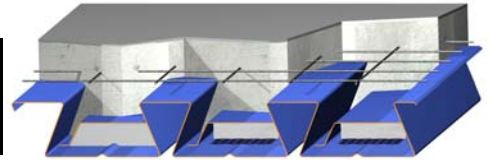
If welded wire fabric is not supplied per ACI requirements (0.00075"Ac), reduce loads by 10%. The section property table is based on 2001 AISI's Cold-Formed Steel Design Manual, 2004 Supplement. The live loads and unshored construction clear spans are based on the Steel Deck Institute's Composite Deck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

145 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" (68.72)			7.75" (71.74)			8" (74.77)			8.25" (77.79)		
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)	326	400	400	339	400	400	353	400	400	366	400	400
	D+L (Deflection)	326	400	400	339	400	400	353	400	400	366	400	400
	L (Deflection)	326	400	400	339	400	400	353	400	400	366	400	400
14' - 0"	λ _p D+λ _L L (Strength)	271	336	400	282	350	400	294	364	400	305	378	400
	D+L (Deflection)	271	336	400	282	350	400	294	364	400	305	378	400
	L (Deflection)	271	336	400	282	350	400	294	364	400	305	378	400
15' - 0"	λ _p D+λ _L L (Strength)	227	282	362	237	294	377	247	306	392	256	317	400
	D+L (Deflection)	227	282	362	237	294	377	247	306	392	256	317	400
	L (Deflection)	227	282	362	237	294	377	247	306	392	256	317	400
16' - 0"	λ _p D+λ _L L (Strength)	192	238	309	200	248	322	208	258	335	216	268	347
	D+L (Deflection)	192	238	309	200	248	322	208	258	335	216	268	347
	L (Deflection)	192	238	309	200	248	322	208	258	335	216	268	347
17' - 0"	λ _p D+λ _L L (Strength)	163	202	265	170	211	276	177	219	287	184	228	298
	D+L (Deflection)	163	202	265	170	211	276	177	219	287	184	228	298
	L (Deflection)	163	202	265	170	211	276	177	219	287	184	228	298
18' - 0"	λ _p D+λ _L L (Strength)	139	173	229	145	180	238	151	187	248	157	194	258
	D+L (Deflection)	139	173	229	145	180	238	151	187	248	157	194	258
	L (Deflection)	139	173	229	145	180	238	151	187	248	157	194	258
19' - 0"	λ _p D+λ _L L (Strength)	119	148	198	124	154	207	129	160	215	134	166	223
	D+L (Deflection)	119	148	198	124	154	207	129	160	215	134	166	223
	L (Deflection)	119	148	198	124	154	207	129	160	215	134	166	223
20' - 0"	λ _p D+λ _L L (Strength)	102	127	173	106	132	180	111	138	187	115	143	194
	D+L (Deflection)	102	127	173	106	132	180	111	138	187	115	143	194
	L (Deflection)	102	127	173	106	132	180	111	138	187	115	143	194
21' - 0"	λ _p D+λ _L L (Strength)	88	109	151	91	114	157	95	118	163	95	123	170
	D+L (Deflection)	88	109	151	91	114	157	95	118	163	95	123	170
	L (Deflection)	88	109	151	91	114	157	95	118	163	95	123	170
22' - 0"	λ _p D+λ _L L (Strength)	75	94	132	75	98	137	78	102	143	81	106	148
	D+L (Deflection)	75	94	132	75	98	137	78	102	143	81	106	148
	L (Deflection)	75	94	132	75	98	137	78	102	143	81	106	148
23' - 0"	λ _p D+λ _L L (Strength)	61	81	116	64	84	120	66	87	125	69	91	130
	D+L (Deflection)	61	81	107	64	84	120	66	87	125	69	91	130
	L (Deflection)	61	81	107	64	84	120	66	87	125	69	91	130
24' - 0"	λ _p D+λ _L L (Strength)	52	69	101	54	72	106	56	75	110	58	78	114
	D+L (Deflection)	52	69	85	54	72	97	56	75	110	58	78	114
	L (Deflection)	52	69	85	54	72	97	56	75	110	58	78	114
25' - 0"	λ _p D+λ _L L (Strength)	44	59	84	46	62	92	47	64	97	49	67	100
	D+L (Deflection)	40	54	67	46	62	77	47	64	89	49	67	100
	L (Deflection)	40	54	67	46	62	77	47	64	89	49	67	100
MAXIMUM UNSHORED CONSTRUCTION CLEAR SPANS													
1span	9' - 7"	11' - 8"	13' - 9"	9' - 5"	11' - 6"	13' - 7"	9' - 4"	11' - 5"	13' - 5"	9' - 2"	11' - 3"	13' - 3"	
2span	11' - 0"	14' - 2"	16' - 3"	10' - 10"	13' - 11"	16' - 0"	10' - 7"	13' - 8"	15' - 9"	10' - 5"	13' - 5"	15' - 6"	
3span	11' - 5"	14' - 8"	16' - 8"	11' - 2"	14' - 5"	16' - 6"	11' - 0"	14' - 2"	16' - 3"	10' - 9"	13' - 11"	16' - 0"	
cantilever	5' - 1"	6' - 5"	7' - 1"	5' - 0"	6' - 4"	7' - 0"	4' - 11"	6' - 3"	6' - 11"	4' - 10"	6' - 1"	6' - 10"	
cy/100sf	1.76			1.83			1.91			1.99			

13' - 0"	λ _p D+λ _L L (Strength)	326	← Max. superimposed LRFD factored dead + live load (psf) (governed by strength limitation)
	D+L (Deflection)	326	← Max. superimposed LRFD unfactored dead + live load (psf) (governed by deflection limitation of L/240)
	L (Deflection)	326	← 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.

145 PCF CONCRETE