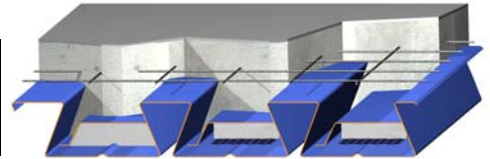


SECTION PROPERTIES

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)		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"	D+L (Strength)	158	146	214	168	147	227	178	203	233	188	234	239
	D+L (Deflection)	158	146	214	168	147	227	178	203	233	188	234	239
	L (Deflection)	158	146	214	168	147	227	178	203	233	188	234	239
14' - 0"	D+L (Strength)	131	163	168	140	174	176	148	184	180	156	194	182
	D+L (Deflection)	131	163	168	140	174	176	148	184	180	156	194	182
	L (Deflection)	131	163	168	140	174	176	148	184	180	156	194	182
15' - 0"	D+L (Strength)	110	137	131	117	145	136	124	154	136	131	163	189
	D+L (Deflection)	110	137	131	117	145	136	124	154	136	131	163	189
	L (Deflection)	110	137	131	117	145	136	124	154	136	131	163	189
16' - 0"	D+L (Strength)	92	115	141	98	122	142	104	129	153	110	137	165
	D+L (Deflection)	92	115	141	98	122	142	104	129	153	110	137	165
	L (Deflection)	92	115	141	98	122	142	104	129	153	110	137	165
17' - 0"	D+L (Strength)	78	97	118	83	103	118	88	109	127	93	116	138
	D+L (Deflection)	78	97	118	83	103	118	88	109	127	93	116	138
	L (Deflection)	78	97	118	83	103	118	88	109	127	93	116	138
18' - 0"	D+L (Strength)	66	80	98	70	86	98	74	93	106	78	98	115
	D+L (Deflection)	66	80	98	70	86	98	74	93	106	78	98	115
	L (Deflection)	66	80	98	70	86	98	74	93	106	78	98	115
19' - 0"	D+L (Strength)	54	65	82	59	71	81	63	77	88	67	83	96
	D+L (Deflection)	54	65	82	59	71	81	63	77	88	67	83	96
	L (Deflection)	54	65	82	59	71	81	63	77	88	67	83	96
20' - 0"	D+L (Strength)	43	53	68	47	58	67	52	63	73	57	69	79
	D+L (Deflection)	43	53	67	47	58	67	52	63	73	57	69	79
	L (Deflection)	43	53	67	47	58	67	52	63	73	57	69	79
21' - 0"	D+L (Strength)	34	42	56	37	46	55	41	51	60	45	56	65
	D+L (Deflection)	30	41	51	37	46	55	41	51	60	45	56	65
	L (Deflection)	30	41	51	37	46	55	41	51	60	45	56	65
22' - 0"	D+L (Strength)	25	33	45	28	37	44	31	40	48	35	44	53
	D+L (Deflection)	20	29	38	26	36	44	31	40	48	35	44	53
	L (Deflection)	20	29	38	26	36	44	31	40	48	35	44	53
23' - 0"	D+L (Strength)	18	25	36	20	28	35	23	31	38	26	34	42
	D+L (Deflection)	12	19	27	17	25	34	22	31	38	26	34	42
	L (Deflection)	12	19	27	17	25	34	22	31	38	26	34	42
24' - 0"	D+L (Strength)	12	18	28	13	20	26	15	23	29	18	26	33
	D+L (Deflection)	5	11	18	8	16	23	13	21	29	18	26	33
	L (Deflection)	5	11	18	8	16	23	13	21	29	18	26	33
25' - 0"	D+L (Strength)	6	12	21	7	14	19	9	16	22	11	18	24
	D+L (Deflection)	-1	4	10	2	8	14	5	13	20	10	18	24
	L (Deflection)	-1	4	10	2	8	14	5	13	20	10	18	24
MAXIMUM UNSHORED CONSTRUCTION CLEAR SPANS													
1span	11' - 1"	13' - 7"	15' - 9"	10' - 9"	13' - 3"	15' - 6"	10' - 6"	12' - 11"	15' - 2"	10' - 3"	12' - 7"	14' - 10"	
2span	13' - 4"	16' - 6"	18' - 8"	13' - 0"	16' - 2"	18' - 3"	12' - 8"	15' - 10"	17' - 10"	12' - 4"	15' - 6"	17' - 6"	
3span	13' - 9"	17' - 1"	18' - 5"	13' - 5"	16' - 8"	18' - 2"	13' - 1"	16' - 4"	17' - 11"	12' - 9"	16' - 0"	17' - 8"	
cantilever	5' - 7"	7' - 2"	8' - 2"	5' - 6"	7' - 1"	8' - 0"	5' - 5"	6' - 11"	7' - 10"	5' - 3"	6' - 9"	7' - 8"	
cy/100sf	1.14			1.22			1.29			1.37			

13' - 0"	D+L (Strength)	158	← Max. superimposed ASD factored dead + live load (psf) (governed by strength limitation)
	D+L (Deflection)	158	← Max. superimposed ASD unfactored dead + live load (psf) (governed by deflection limitation of L/240)
	L (Deflection)	158	← 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

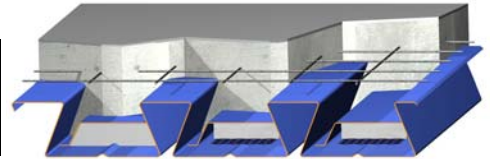
Construction spans shown based on 2" exterior bearing and 4" interior bearing width.
If welded wire fabric is not supplied per ACI requirements (0.00075*Ac), reduce loads by 10%. The section property table is based on 2001 AISI's Cold-Formed Steel Design Manual, 2004 Supplement. The live loads and unshored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

145 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" (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"	D+L (Strength)	198	247	244	208	259	249	218	272	252	228	284	255
	D+L (Deflection)	198	247	244	208	259	249	218	272	252	228	284	255
	L (Deflection)	198	247	244	208	259	249	218	272	252	228	284	255
14' - 0"	D+L (Strength)	165	205	184	173	215	185	181	225	184	189	236	276
	D+L (Deflection)	165	205	184	173	215	185	181	225	184	189	236	276
	L (Deflection)	165	205	184	173	215	185	181	225	184	189	236	276
15' - 0"	D+L (Strength)	137	171	213	144	180	229	151	188	243	158	197	254
	D+L (Deflection)	137	171	213	144	180	229	151	188	243	158	197	254
	L (Deflection)	137	171	213	144	180	229	151	188	243	158	197	254
16' - 0"	D+L (Strength)	116	144	178	121	151	192	127	159	206	133	166	216
	D+L (Deflection)	116	144	178	121	151	192	127	159	206	133	166	216
	L (Deflection)	116	144	178	121	151	192	127	159	206	133	166	216
17' - 0"	D+L (Strength)	98	122	149	102	128	161	107	134	173	112	140	185
	D+L (Deflection)	98	122	149	102	128	161	107	134	173	112	140	185
	L (Deflection)	98	122	149	102	128	161	107	134	173	112	140	185
18' - 0"	D+L (Strength)	83	103	125	87	109	135	91	114	145	95	119	156
	D+L (Deflection)	83	103	125	87	109	135	91	114	145	95	119	156
	L (Deflection)	83	103	125	87	109	135	91	114	145	95	119	156
19' - 0"	D+L (Strength)	70	88	104	74	92	112	77	97	122	81	101	131
	D+L (Deflection)	70	88	104	74	92	112	77	97	122	81	101	131
	L (Deflection)	70	88	104	74	92	112	77	97	122	81	101	131
20' - 0"	D+L (Strength)	60	75	86	63	79	94	66	82	102	69	86	110
	D+L (Deflection)	60	75	86	63	79	94	66	82	102	69	86	110
	L (Deflection)	60	75	86	63	79	94	66	82	102	69	86	110
21' - 0"	D+L (Strength)	49	61	71	53	67	77	56	70	84	58	73	91
	D+L (Deflection)	49	61	71	53	67	77	56	70	84	58	73	91
	L (Deflection)	49	61	71	53	67	77	56	70	84	58	73	91
22' - 0"	D+L (Strength)	38	49	58	43	54	63	47	59	69	49	63	75
	D+L (Deflection)	38	49	58	43	54	63	47	59	69	49	63	75
	L (Deflection)	38	49	58	43	54	63	47	59	69	49	63	75
23' - 0"	D+L (Strength)	29	38	46	32	42	51	36	47	56	31	42	52
	D+L (Deflection)	29	38	46	32	42	51	36	47	56	31	42	52
	L (Deflection)	29	38	46	32	42	51	36	47	56	31	42	52
24' - 0"	D+L (Strength)	20	29	36	20	32	40	21	36	45	23	40	49
	D+L (Deflection)	20	29	36	20	32	40	21	36	45	23	40	49
	L (Deflection)	20	29	36	20	32	40	21	36	45	23	40	49
25' - 0"	D+L (Strength)	12	21	27	13	24	31	14	27	34	15	30	38
	D+L (Deflection)	12	21	27	13	24	31	14	27	34	15	30	38
	L (Deflection)	12	21	27	13	24	31	14	27	34	15	30	38

MAXIMUM UNSHORED CONSTRUCTION CLEAR SPANS

1span	10' - 0"	12' - 4"	14' - 6"	9' - 10"	12' - 0"	14' - 2"	9' - 8"	11' - 10"	14' - 0"	9' - 6"	11' - 8"	13' - 10"
2span	12' - 0"	15' - 2"	17' - 2"	11' - 9"	14' - 11"	16' - 10"	11' - 6"	14' - 8"	16' - 7"	11' - 3"	14' - 5"	16' - 4"
3span	12' - 6"	15' - 8"	17' - 6"	12' - 2"	15' - 5"	17' - 3"	11' - 11"	15' - 2"	17' - 1"	11' - 8"	14' - 11"	16' - 10"
cantilever	5' - 2"	6' - 8"	7' - 7"	5' - 1"	6' - 6"	7' - 5"	5' - 0"	6' - 5"	7' - 4"	4' - 11"	6' - 4"	7' - 3"
cy/100sf	1.45			1.52			1.60			1.68		

13' - 0"	D+L (Strength)	198	← Max. superimposed ASD factored dead + live load (psf) (governed by strength limitation)
	D+L (Deflection)	198	← Max. superimposed ASD unfactored dead + live load (psf) (governed by deflection limitation of L/240)
	L (Deflection)	198	← 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.

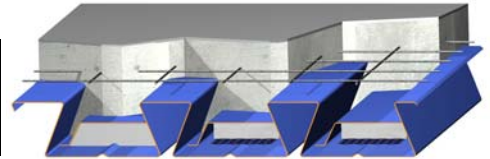
If welded wire fabric is not supplied per ACI requirements (0.00075*Ac), reduce loads by 10%. The section property table is based on 2001 AISI's Cold-Formed Steel Design Manual, 2004 Supplement. The live loads and unshored construction clear spans are based on the Steel Deck Institute's Composite Deck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

145 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" (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"	D+L (Strength)	238	297	257	248	309	257	258	322	257	268	334	255
	D+L (Deflection)	238	297	257	248	309	257	258	322	257	268	334	255
	L (Deflection)	238	297	257	248	309	257	258	322	257	268	334	255
14' - 0"	D+L (Strength)	198	246	314	206	256	327	214	267	341	223	277	354
	D+L (Deflection)	198	246	314	206	256	327	214	267	341	223	277	354
	L (Deflection)	198	246	314	206	256	327	214	267	341	223	277	354
15' - 0"	D+L (Strength)	165	206	265	172	214	276	179	223	288	186	232	299
	D+L (Deflection)	165	206	265	172	214	276	179	223	288	186	232	299
	L (Deflection)	165	206	265	172	214	276	179	223	288	186	232	299
16' - 0"	D+L (Strength)	139	173	226	145	180	235	150	188	245	156	195	254
	D+L (Deflection)	139	173	226	145	180	235	150	188	245	156	195	254
	L (Deflection)	139	173	226	145	180	235	150	188	245	156	195	254
17' - 0"	D+L (Strength)	117	146	193	122	152	201	127	159	209	132	165	217
	D+L (Deflection)	117	146	193	122	152	201	127	159	209	132	165	217
	L (Deflection)	117	146	193	122	152	201	127	159	209	132	165	217
18' - 0"	D+L (Strength)	99	124	166	103	129	173	108	135	180	112	140	187
	D+L (Deflection)	99	124	166	103	129	173	108	135	180	112	140	187
	L (Deflection)	99	124	166	103	129	173	108	135	180	112	140	187
19' - 0"	D+L (Strength)	84	106	141	88	110	149	91	115	155	95	119	161
	D+L (Deflection)	84	106	141	88	110	149	91	115	155	95	119	161
	L (Deflection)	84	106	141	88	110	149	91	115	155	95	119	161
20' - 0"	D+L (Strength)	72	90	119	75	94	128	78	98	134	81	101	140
	D+L (Deflection)	72	90	119	75	94	128	78	98	134	81	101	140
	L (Deflection)	72	90	119	75	94	128	78	98	134	81	101	140
21' - 0"	D+L (Strength)	61	77	99	63	80	107	66	83	115	64	86	121
	D+L (Deflection)	61	77	99	63	80	107	66	83	115	64	86	121
	L (Deflection)	61	77	99	63	80	107	66	83	115	64	86	121
22' - 0"	D+L (Strength)	52	65	82	46	68	89	48	71	96	51	74	104
	D+L (Deflection)	52	65	82	46	68	89	48	71	96	51	74	104
	L (Deflection)	52	65	82	46	68	89	48	71	96	51	74	104
23' - 0"	D+L (Strength)	33	55	67	35	58	73	37	60	80	39	62	86
	D+L (Deflection)	33	55	67	35	58	73	37	60	80	39	62	86
	L (Deflection)	33	55	67	35	58	73	37	60	80	39	62	86
24' - 0"	D+L (Strength)	24	45	54	25	49	59	27	51	65	28	53	71
	D+L (Deflection)	24	45	54	25	49	59	27	51	65	28	53	71
	L (Deflection)	24	45	54	25	49	59	27	51	65	28	53	71
25' - 0"	D+L (Strength)	16	34	43	17	38	47	18	42	52	19	45	57
	D+L (Deflection)	16	34	43	17	38	47	18	42	52	19	45	57
	L (Deflection)	16	34	43	17	38	47	18	42	52	19	45	57
MAXIMUM UNSHORED CONSTRUCTION CLEAR SPANS													
1span	9' - 5"	11' - 7"	13' - 7"	9' - 4"	11' - 5"	13' - 5"	9' - 2"	11' - 3"	13' - 3"	9' - 1"	11' - 1"	13' - 1"	
2span	11' - 0"	14' - 2"	16' - 0"	10' - 10"	13' - 11"	15' - 9"	10' - 7"	13' - 8"	15' - 6"	10' - 5"	13' - 5"	15' - 4"	
3span	11' - 5"	14' - 8"	16' - 7"	11' - 2"	14' - 5"	16' - 4"	11' - 0"	14' - 2"	16' - 1"	10' - 9"	13' - 11"	15' - 10"	
cantilever	4' - 11"	6' - 3"	7' - 1"	4' - 10"	6' - 1"	7' - 0"	4' - 9"	6' - 0"	6' - 11"	4' - 8"	5' - 11"	6' - 10"	
cy/100sf	1.76			1.83			1.91			1.99			

13' - 0"	D+L (Strength)	238	← Max. superimposed ASD factored dead + live load (psf) (governed by strength limitation)
	D+L (Deflection)	238	← Max. superimposed ASD unfactored dead + live load (psf) (governed by deflection limitation of L/240)
	L (Deflection)	238	← 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.

145 PCF CONCRETE