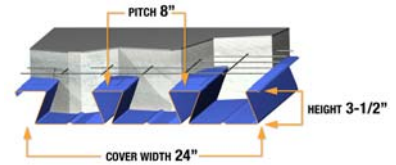


SECTION PROPERTIES

fy=40 ksi

GAGE	Wd	I <sub>D</sub>	S <sub>p</sub>	S <sub>n</sub>	Rbe			Rbi		
					2"	3"	4"	4"	5"	6"
20	3.33	1.959	0.767	0.820	1043	1195	1324	2138	2300	2446
18	4.40	2.664	1.109	1.190	1761	2006	2212	3554	3810	4041
16	5.54	3.394	1.504	1.540	2710	3070	3374	5412	5784	6120



MAXIMUM SUPERIMPOSED LRFD LOADS, (psf), NO STUDS ON BEAMS													
h (Wc)		5.5 (55.9)			5.75 (58.9)			6 (61.9)			6.25 (64.9)		
Span	Load Combinations	GAGE											
		20	18	16	20	18	16	20	18	16	20	18	16
13'-0"	λ <sub>p</sub> D+λ <sub>L</sub> (Strength)	195	331	369	207	350	397	219	379	400	232	400	400
	D+L (Deflection)	195	331	369	207	350	397	219	379	400	232	400	400
	L (Deflection)	195	321	354	207	350	396	219	379	400	232	400	400
14'-0"	λ <sub>p</sub> D+λ <sub>L</sub> (Strength)	163	273	291	173	289	311	183	313	322	193	338	330
	D+L (Deflection)	163	273	291	173	289	311	183	313	322	193	338	330
	L (Deflection)	163	257	283	173	289	311	183	313	322	193	338	330
15'-0"	λ <sub>p</sub> D+λ <sub>L</sub> (Strength)	137	226	229	146	240	271	154	260	288	163	281	310
	D+L (Deflection)	137	226	229	146	240	271	154	260	288	163	281	310
	L (Deflection)	137	209	229	146	235	258	154	260	288	163	281	310
16'-0"	λ <sub>p</sub> D+λ <sub>L</sub> (Strength)	116	188	237	124	199	227	131	216	240	138	234	260
	D+L (Deflection)	116	188	223	124	199	227	131	216	240	138	234	260
	L (Deflection)	116	172	190	124	194	213	131	216	238	138	234	260
17'-0"	λ <sub>p</sub> D+λ <sub>L</sub> (Strength)	99	156	199	105	165	190	112	180	201	118	196	218
	D+L (Deflection)	99	155	176	105	165	190	112	180	201	118	196	218
	L (Deflection)	99	143	158	105	161	177	112	180	198	118	196	218
18'-0"	λ <sub>p</sub> D+λ <sub>L</sub> (Strength)	85	129	168	90	137	159	95	150	169	101	163	183
	D+L (Deflection)	85	121	139	90	137	159	95	150	169	101	163	183
	L (Deflection)	85	121	133	90	136	149	95	150	167	101	163	183
19'-0"	D+L (Strength)	73	107	141	77	114	133	82	124	141	87	136	154
	D+L (Deflection)	73	94	109	77	110	126	82	124	141	87	136	154
	L (Deflection)	73	94	109	77	110	126	82	124	141	87	136	154
20'-0"	λ <sub>p</sub> D+λ <sub>L</sub> (Strength)	63	88	119	67	93	110	71	102	117	75	112	128
	D+L (Deflection)	59	72	84	67	85	99	71	100	115	75	112	128
	L (Deflection)	59	72	84	67	85	99	71	100	115	75	112	128
21'-0"	λ <sub>p</sub> D+λ <sub>L</sub> (Strength)	54	71	99	57	76	91	61	84	97	64	92	107
	D+L (Deflection)	43	54	64	53	65	76	61	78	90	64	92	106
	L (Deflection)	43	54	64	53	65	76	61	78	90	64	92	106
22'-0"	λ <sub>p</sub> D+λ <sub>L</sub> (Strength)	42	57	82	47	61	74	52	67	79	55	75	88
	D+L (Deflection)	30	39	48	38	48	58	48	59	70	55	71	83
	L (Deflection)	30	39	48	38	48	58	48	59	70	55	71	83
23'-0"	λ <sub>p</sub> D+λ <sub>L</sub> (Strength)	31	44	67	35	47	60	40	53	64	46	60	71
	D+L (Deflection)	19	26	34	26	34	43	34	43	53	42	53	64
	L (Deflection)	19	26	34	26	34	43	34	43	53	42	53	64
24'-0"	λ <sub>p</sub> D+λ <sub>L</sub> (Strength)	21	33	54	25	36	47	36	41	51	38	46	57
	D+L (Deflection)	9	16	23	15	23	30	22	30	38	29	38	47
	L (Deflection)	9	16	23	15	23	30	22	30	38	29	38	47
25'-0"	λ <sub>p</sub> D+λ <sub>L</sub> (Strength)	26	23	43	28	25	36	30	30	39	32	34	44
	D+L (Deflection)	1	7	13	6	13	19	12	19	26	18	26	34
	L (Deflection)	1	7	13	6	13	19	12	19	26	18	26	34

MAXIMUM UNSHORED CONSTRUCTION CLEAR SPANS

1span	10'-5"	12'-9"	15'-0"	10'-2"	12'-5"	14'-8"	10'-0"	12'-3"	14'-5"	9'-10"	12'-1"	14'-2"
2span	12'-5"	15'-7"	17'-8"	12'-1"	15'-3"	17'-4"	11'-10"	15'-0"	17'-0"	11'-7"	14'-9"	16'-8"
3span	12'-10"	16'-1"	17'-10"	12'-6"	15'-9"	17'-8"	12'-3"	15'-6"	17'-5"	12'-0"	15'-3"	17'-3"
cantilever	5'-6"	6'-11"	7'-10"	5'-5"	6'-10"	7'-8"	5'-4"	6'-8"	7'-7"	5'-3"	6'-7"	7'-5"
cy/100sf	1.43			1.50			1.58			1.66		

13'-0"	λ <sub>p</sub> D+λ <sub>L</sub> (Strength)	195
	D+L (Deflection)	195
	L (Deflection)	195

← Max. superimposed LRFD factored D + L load (psf) (governed by strength limitation)  
 ← Max. superimposed LRFD unfactored D + L load (psf) (governed by deflection limitation of L/240)  
 ← Max. superimposed LRFD unfactored L load (psf) (governed by deflection limitation of L/360)  
 Vertical load span (center to center spacing)

- Wd Weight of deck (uncoated), psf
- I<sub>D</sub> Moment of inertia for deflection per foot of deck width (in<sup>4</sup>/ft)
- S<sub>p</sub> Section modulus for positive bending per foot of deck width, (in<sup>3</sup>)/ft
- S<sub>n</sub> Section modulus for negative bending per foot of deck width, (in<sup>3</sup>)/ft
- f<sub>c</sub> 3000 psi
- λ<sub>D</sub>, λ<sub>L</sub> Load factors for dead and live loads 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

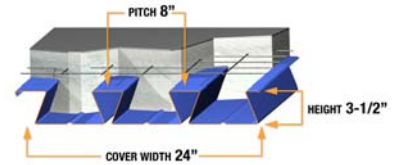
If welded wire fabric is not supplied per ACI requirements (0.00075\*Ac), reduce loads by 10%. The section property table is based on 2001 AISI's Cold-Formed Steel Design Manual, 2004 Supplement. The live loads and unshored construction clear spans are based on the Steel Deck Institute's Composite Deck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

SECTION PROPERTIES

fy=40 ksi

GAGE	Wd	I <sub>D</sub>	S <sub>p</sub>	S <sub>n</sub>	Rbe			Rbi		
					2"	3"	4"	4"	5"	6"
20	3.33	1.959	0.767	0.820	1043	1195	1324	2138	2300	2446
18	4.40	2.664	1.109	1.190	1761	2006	2212	3554	3810	4041
16	5.54	3.394	1.504	1.540	2710	3070	3374	5412	5784	6120



MAXIMUM SUPERIMPOSED LRFD LOADS, (psf), NO STUDS ON BEAMS													
h (Wc)		6.5 (68.0)			6.75 (71.0)			7 (74.0)			7.25 (77.0)		
Span	Load Combinations	GAGE											
		20	18	16	20	18	16	20	18	16	20	18	16
13'-0"	λ <sub>p</sub> D+λ <sub>L</sub> L (Strength)	244	400	400	256	400	400	268	400	400	280	400	400
	D+L (Deflection)	244	400	400	256	400	400	268	400	400	280	400	400
	L (Deflection)	244	400	400	256	400	400	268	400	400	280	400	400
14'-0"	λ <sub>p</sub> D+λ <sub>L</sub> L (Strength)	204	364	337	214	392	400	224	400	400	234	400	400
	D+L (Deflection)	204	364	337	214	392	400	224	400	400	234	400	400
	L (Deflection)	204	364	337	214	392	400	224	400	400	234	400	400
15'-0"	λ <sub>p</sub> D+λ <sub>L</sub> L (Strength)	172	303	335	180	327	360	189	351	387	197	377	400
	D+L (Deflection)	172	303	335	180	327	360	189	351	387	197	377	400
	L (Deflection)	172	303	335	180	327	360	189	351	387	197	377	400
16'-0"	λ <sub>p</sub> D+λ <sub>L</sub> L (Strength)	145	253	281	153	273	303	160	295	326	167	317	350
	D+L (Deflection)	145	253	281	153	273	303	160	295	326	167	317	350
	L (Deflection)	145	253	281	153	273	303	160	295	326	167	317	350
17'-0"	λ <sub>p</sub> D+λ <sub>L</sub> L (Strength)	124	212	236	130	229	255	137	247	275	143	266	296
	D+L (Deflection)	124	212	236	130	229	255	137	247	275	143	266	296
	L (Deflection)	124	212	236	130	229	255	137	247	275	143	266	296
18'-0"	λ <sub>p</sub> D+λ <sub>L</sub> L (Strength)	106	177	199	112	192	215	117	208	232	122	224	250
	D+L (Deflection)	106	177	199	112	192	215	117	208	232	122	224	250
	L (Deflection)	106	177	199	112	192	215	117	208	232	122	224	250
19'-0"	D+L (Strength)	91	148	167	96	161	181	100	175	196	105	189	212
	D+L (Deflection)	91	148	167	96	161	181	100	175	196	105	189	212
	L (Deflection)	91	148	167	96	161	181	100	175	196	105	189	212
20'-0"	λ <sub>p</sub> D+λ <sub>L</sub> L (Strength)	79	123	140	83	134	152	87	146	165	91	159	179
	D+L (Deflection)	79	123	140	83	134	152	87	146	165	91	159	179
	L (Deflection)	79	123	140	83	134	152	87	146	165	91	159	179
21'-0"	λ <sub>p</sub> D+λ <sub>L</sub> L (Strength)	68	101	117	71	111	128	75	122	139	78	133	151
	D+L (Deflection)	68	101	117	71	111	128	75	122	139	78	133	151
	L (Deflection)	68	101	117	71	111	128	75	122	139	78	133	151
22'-0"	λ <sub>p</sub> D+λ <sub>L</sub> L (Strength)	58	83	97	61	91	106	61	100	116	64	110	127
	D+L (Deflection)	58	83	97	61	91	106	61	100	116	64	110	127
	L (Deflection)	58	83	97	61	91	106	61	100	116	64	110	127
23'-0"	λ <sub>p</sub> D+λ <sub>L</sub> L (Strength)	47	67	79	49	74	87	52	82	96	54	90	105
	D+L (Deflection)	47	64	76	49	74	87	52	82	96	54	90	105
	L (Deflection)	47	64	76	49	74	87	52	82	96	54	90	105
24'-0"	λ <sub>p</sub> D+λ <sub>L</sub> L (Strength)	40	52	64	42	59	71	44	66	78	46	73	87
	D+L (Deflection)	37	48	58	42	58	69	44	66	78	46	73	87
	L (Deflection)	37	48	58	42	58	69	44	66	78	46	73	87
25'-0"	λ <sub>p</sub> D+λ <sub>L</sub> L (Strength)	34	40	50	36	45	56	37	51	63	39	58	70
	D+L (Deflection)	25	34	43	32	42	52	37	51	63	39	58	70
	L (Deflection)	25	34	43	32	42	52	37	51	63	39	58	70

MAXIMUM UNSHORED CONSTRUCTION CLEAR SPANS

1span	9'-9"	11'-11"	14'-0"	9'-7"	11'-9"	13'-10"	9'-6"	11'-7"	13'-8"	9'-4"	11'-5"	13'-6"
2span	11'-4"	14'-6"	16'-5"	11'-1"	14'-2"	16'-2"	10'-11"	13'-11"	15'-10"	10'-8"	13'-8"	15'-7"
3span	11'-9"	14'-11"	16'-11"	11'-6"	14'-8"	16'-8"	11'-4"	14'-5"	16'-5"	11'-1"	14'-2"	16'-2"
cantilever	5'-2"	6'-5"	7'-4"	5'-1"	6'-4"	7'-3"	5'-0"	6'-3"	7'-2"	4'-11"	6'-2"	7'-1"
cy/100sf	1.74			1.81			1.89			1.97		

13'-0"	λ <sub>p</sub> D+λ <sub>L</sub> L (Strength)	244
	D+L (Deflection)	244
	L (Deflection)	244

← Max. superimposed LRFD factored D + L load (psf) (governed by strength limitation)  
 ← Max. superimposed LRFD unfactored D + L load (psf) (governed by deflection limitation of L/240)  
 ← Max. superimposed LRFD unfactored L load (psf) (governed by deflection limitation of L/360)  
 ← Vertical load span (center to center spacing)

- Wd Weight of deck (uncoated), psf
- I<sub>D</sub> Moment of inertia for deflection per foot of deck width (in<sup>4</sup>/ft)
- S<sub>p</sub> Section modulus for positive bending per foot of deck width, (in<sup>3</sup>)/ft
- S<sub>n</sub> Section modulus for negative bending per foot of deck width, (in<sup>3</sup>)/ft
- f<sub>c</sub> 3000 psi
- λ<sub>D</sub>, λ<sub>L</sub> Load factors for dead and live loads 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

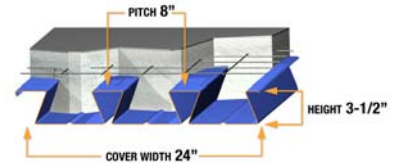
If welded wire fabric is not supplied per ACI requirements (0.00075\*Ac), reduce loads by 10%. The section property table is based on 2001 AISI's Cold-Formed Steel Design Manual, 2004 Supplement. The live loads and unshored construction clear spans are based on the Steel Deck Institute's Composite Deck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

SECTION PROPERTIES

fy=40 ksi

GAGE	Wd	I <sub>D</sub>	S <sub>p</sub>	S <sub>n</sub>	Rbe			Rbi		
					2"	3"	4"	4"	5"	6"
20	3.33	1.959	0.767	0.820	1043	1195	1324	2138	2300	2446
18	4.40	2.664	1.109	1.190	1761	2006	2212	3554	3810	4041
16	5.54	3.394	1.504	1.540	2710	3070	3374	5412	5784	6120



MAXIMUM SUPERIMPOSED LRFD LOADS, (psf), NO STUDS ON BEAMS													
h (Wc)		7.5 (80.1)			7.75 (83.1)			8 (86.1)			8.25 (89.1)		
Span	Load Combinations	GAGE											
		20	18	16	20	18	16	20	18	16	20	18	16
13'-0"	λ <sub>p</sub> D+λ <sub>L</sub> L (Strength)	292	400	400	304	400	400	317	400	400	329	400	400
	D+L (Deflection)	292	400	400	304	400	400	317	400	400	329	400	400
	L (Deflection)	292	400	400	304	400	400	317	400	400	329	400	400
14'-0"	λ <sub>p</sub> D+λ <sub>L</sub> L (Strength)	244	400	400	254	400	400	265	400	400	275	400	400
	D+L (Deflection)	244	400	400	254	400	400	265	400	400	275	400	400
	L (Deflection)	244	400	400	254	400	400	265	400	400	275	400	400
15'-0"	λ <sub>p</sub> D+λ <sub>L</sub> L (Strength)	206	400	400	214	400	400	223	400	400	232	400	400
	D+L (Deflection)	206	400	400	214	400	400	223	400	400	232	400	400
	L (Deflection)	206	400	400	214	400	400	223	400	400	232	400	400
16'-0"	λ <sub>p</sub> D+λ <sub>L</sub> L (Strength)	175	339	375	182	363	400	189	385	400	197	399	400
	D+L (Deflection)	175	339	375	182	363	400	189	385	400	197	399	400
	L (Deflection)	175	339	375	182	363	400	189	385	400	197	399	400
17'-0"	λ <sub>p</sub> D+λ <sub>L</sub> L (Strength)	149	286	317	155	307	340	161	328	363	168	350	387
	D+L (Deflection)	149	286	317	155	307	340	161	328	363	168	350	387
	L (Deflection)	149	286	317	155	307	340	161	328	363	168	350	387
18'-0"	λ <sub>p</sub> D+λ <sub>L</sub> L (Strength)	128	242	269	133	260	289	138	278	309	144	297	330
	D+L (Deflection)	128	242	269	133	260	289	138	278	309	144	297	330
	L (Deflection)	128	242	269	133	260	289	138	278	309	144	297	330
19'-0"	D+L (Strength)	110	204	228	114	219	245	119	236	263	124	252	282
	D+L (Deflection)	110	204	228	114	219	245	119	236	263	124	252	282
	L (Deflection)	110	204	228	114	219	245	119	236	263	124	252	282
20'-0"	λ <sub>p</sub> D+λ <sub>L</sub> L (Strength)	95	172	194	99	185	209	103	199	224	107	214	240
	D+L (Deflection)	95	172	194	99	185	209	103	199	224	107	214	240
	L (Deflection)	95	172	194	99	185	209	103	199	224	107	214	240
21'-0"	λ <sub>p</sub> D+λ <sub>L</sub> L (Strength)	82	144	164	81	156	177	84	168	191	87	181	205
	D+L (Deflection)	82	144	164	81	156	177	84	168	191	87	181	205
	L (Deflection)	82	144	164	81	156	177	84	168	191	87	181	205
22'-0"	λ <sub>p</sub> D+λ <sub>L</sub> L (Strength)	66	120	138	69	130	149	72	141	161	75	153	174
	D+L (Deflection)	66	120	138	69	130	149	72	141	161	75	153	174
	L (Deflection)	66	120	138	69	130	149	72	141	161	75	153	174
23'-0"	λ <sub>p</sub> D+λ <sub>L</sub> L (Strength)	57	99	115	59	108	125	62	118	136	64	128	147
	D+L (Deflection)	57	99	115	59	108	125	62	118	136	64	128	147
	L (Deflection)	57	99	115	59	108	125	62	118	136	64	128	147
24'-0"	λ <sub>p</sub> D+λ <sub>L</sub> L (Strength)	48	81	95	50	89	104	53	97	114	55	106	124
	D+L (Deflection)	48	81	95	50	89	104	53	97	114	55	106	124
	L (Deflection)	48	81	95	50	89	104	53	97	114	55	106	124
25'-0"	λ <sub>p</sub> D+λ <sub>L</sub> L (Strength)	41	64	78	43	71	86	45	79	94	46	87	103
	D+L (Deflection)	41	64	78	43	71	86	45	79	94	46	87	103
	L (Deflection)	41	64	78	43	71	86	45	79	94	46	87	103
MAXIMUM UNSHORED CONSTRUCTION CLEAR SPANS													
1span	9'-3"	11'-4"	13'-4"	9'-2"	11'-2"	13'-2"	9'-0"	11'-0"	13'-0"	8'-11"	10'-11"	12'-10"	
2span	10'-6"	13'-5"	15'-5"	10'-4"	13'-3"	15'-2"	10'-2"	13'-0"	14'-11"	10'-0"	12'-10"	14'-9"	
3span	10'-11"	13'-11"	15'-11"	10'-8"	13'-8"	15'-8"	10'-6"	13'-6"	15'-5"	10'-4"	13'-3"	15'-3"	
cantilever	4'-10"	6'-1"	7'-0"	4'-9"	6'-0"	6'-11"	4'-8"	5'-11"	6'-10"	4'-8"	5'-10"	6'-9"	
cy/100sf	2.04			2.12			2.20			2.28			

13'-0"	λ <sub>p</sub> D+λ <sub>L</sub> L (Strength)	292
	D+L (Deflection)	292
	L (Deflection)	292

← Max. superimposed LRFD factored D + L load (psf) (governed by strength limitation)  
 ← Max. superimposed LRFD unfactored D + L load (psf) (governed by deflection limitation of L/240)  
 ← Max. superimposed LRFD unfactored L load (psf) (governed by deflection limitation of L/360)  
 Vertical load span (center to center spacing)

- Wd Weight of deck (uncoated), psf
- I<sub>D</sub> Moment of inertia for deflection per foot of deck width (in<sup>4</sup>/ft)
- S<sub>p</sub> Section modulus for positive bending per foot of deck width, (in<sup>3</sup>)/ft
- S<sub>n</sub> Section modulus for negative bending per foot of deck width, (in<sup>3</sup>)/ft
- f<sub>c</sub> 3000 psi
- λ<sub>D</sub>, λ<sub>L</sub> Load factors for dead and live loads 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

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 NORMAL WEIGHT CONCRETE TABLE