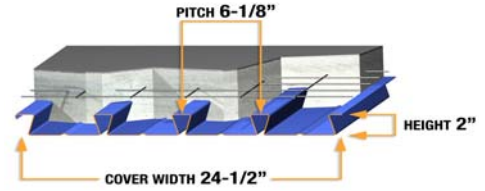


SECTION PROPERTIES

fy=40 ksi

GAGE	Wd	I _D	S _p	S _n	Rbe			Rbi		
					2"	3"	4"	4"	5"	6"
22	2.23	0.407	0.288	0.281	1089	1254	1393	2076	2239	2386
20	2.71	0.495	0.361	0.347	1550	1777	1969	2947	3170	3372
18	3.58	0.658	0.483	0.484	2583	2942	3245	4892	5245	5563
16	4.51	0.832	0.614	0.617	3937	4461	4902	7441	7952	8414



MAXIMUM SUPERIMPOSED LRFD LOADS, (psf), NO STUDS ON BEAMS

h (Wc)		4 (33.7)				4.25 (36.0)				4.5 (38.3)				4.75 (40.5)			
Span	Load Combinations	GAGE															
		22	20	18	16	22	20	18	16	22	20	18	16	22	20	18	16
8'-0"	λ _D D+λ _L L (Strength)	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
	D+L (Deflection)	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
	L (Deflection)	392	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
9'-0"	λ _D D+λ _L L (Strength)	363	380	400	400	393	400	400	400	400	400	400	400	400	400	400	400
	D+L (Deflection)	363	380	400	400	393	400	400	400	400	400	400	400	400	400	400	400
	L (Deflection)	275	298	334	369	325	350	393	400	379	400	400	400	400	400	400	400
10'-0"	λ _D D+λ _L L (Strength)	324	340	368	400	350	367	398	400	377	395	400	400	400	400	400	400
	D+L (Deflection)	265	289	328	400	317	344	390	400	374	395	400	400	400	400	400	400
	L (Deflection)	201	217	244	269	237	255	287	316	276	298	334	368	320	345	387	400
11'-0"	λ _D D+λ _L L (Strength)	277	297	327	341	311	331	359	388	340	356	386	400	363	381	400	400
	D+L (Deflection)	190	208	237	303	228	249	283	315	271	295	335	372	318	346	392	400
	L (Deflection)	151	163	183	202	178	192	215	237	208	224	251	276	241	259	290	320
12'-0"	λ _D D+λ _L L (Strength)	224	241	266	287	252	270	298	321	281	302	332	357	312	335	368	396
	D+L (Deflection)	138	152	174	195	167	183	209	234	199	218	248	276	235	256	291	324
	L (Deflection)	116	126	141	156	137	148	166	183	160	173	193	213	185	200	224	246
13'-0"	λ _D D+λ _L L (Strength)	183	197	218	236	206	222	245	264	231	248	273	295	257	276	304	327
	D+L (Deflection)	101	112	129	145	123	136	156	175	148	163	186	208	176	192	220	245
	L (Deflection)	91	99	111	122	108	116	130	144	126	136	152	167	146	157	176	194
14'-0"	λ _D D+λ _L L (Strength)	150	162	180	195	170	183	203	219	191	205	227	245	212	229	253	273
	D+L (Deflection)	74	82	96	109	91	101	117	132	110	122	141	158	132	145	167	187
	L (Deflection)	73	79	89	98	86	93	104	115	101	109	122	134	117	126	141	155
15'-0"	λ _D D+λ _L L (Strength)	124	134	150	163	141	152	169	183	158	171	190	205	177	191	212	229
	D+L (Deflection)	53	60	71	81	67	75	88	100	82	91	107	121	99	110	128	144
	L (Deflection)	53	60	71	80	67	75	85	94	82	88	99	109	95	102	115	126
16'-0"	λ _D D+λ _L L (Strength)	103	112	125	136	117	127	141	154	132	143	159	173	148	160	178	193
	D+L (Deflection)	38	43	52	60	48	55	65	75	61	68	80	92	74	83	97	111
	L (Deflection)	38	43	52	60	48	55	65	75	61	68	80	90	74	83	94	104
17'-0"	λ _D D+λ _L L (Strength)	85	93	104	114	97	106	119	129	110	119	134	146	123	134	150	163
	D+L (Deflection)	25	30	37	44	34	39	48	56	44	50	60	69	55	62	74	85
	L (Deflection)	25	30	37	44	34	39	48	56	44	50	60	69	55	62	74	85
18'-0"	λ _D D+λ _L L (Strength)	70	77	87	96	69	88	99	109	76	100	113	123	82	113	127	138
	D+L (Deflection)	16	19	25	31	23	27	34	41	31	36	44	52	40	45	55	64
	L (Deflection)	16	19	25	31	23	27	34	41	31	36	44	52	40	45	55	64
19'-0"	λ _D D+λ _L L (Strength)	52	63	72	80	57	73	83	91	62	83	95	104	68	95	107	117
	D+L (Deflection)	8	11	16	21	13	17	23	29	20	24	31	38	27	32	40	48
	L (Deflection)	8	11	16	21	13	17	23	29	20	24	31	38	27	32	40	48
20'-0"	λ _D D+λ _L L (Strength)	42	52	60	67	47	64	69	77	51	71	79	88	56	77	90	99
	D+L (Deflection)	2	4	8	12	6	9	14	19	11	15	21	26	17	21	28	35
	L (Deflection)	2	4	8	12	6	9	14	19	11	15	21	26	17	21	28	35

MAXIMUM UNSHORED CONSTRUCTION CLEAR SPANS

1span	7'-1"	8'-2"	9'-9"	11'-2"	6'-11"	8'-0"	9'-6"	10'-11"	6'-10"	7'-10"	9'-3"	10'-8"	6'-8"	7'-8"	9'-1"	10'-5"
2span	9'-1"	10'-1"	11'-10"	13'-4"	8'-11"	9'-11"	11'-7"	13'-1"	8'-9"	9'-8"	11'-5"	12'-10"	8'-7"	9'-6"	11'-2"	12'-7"
3span	9'-5"	10'-5"	12'-3"	13'-9"	9'-3"	10'-3"	12'-0"	13'-6"	9'-0"	10'-0"	11'-9"	13'-3"	8'-10"	9'-10"	11'-7"	13'-0"
cantilever	3'-0"	3'-6"	4'-5"	5'-3"	2'-11"	3'-5"	4'-5"	5'-2"	2'-11"	3'-5"	4'-4"	5'-1"	2'-10"	3'-4"	4'-3"	5'-0"
cy/100sf	1.13				1.21				1.29				1.37			

8'-0"	λ _D D+λ _L L (Strength)	400	← Max. superimposed LRFD factored dead + live load (psf) (governed by strength limitation)
	D+L (Deflection)	400	← Max. superimposed LRFD unfactored dead + live load (psf) (governed by deflection limitation of L/240)
	L (Deflection)	392	← 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_D 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_D, λ_L 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

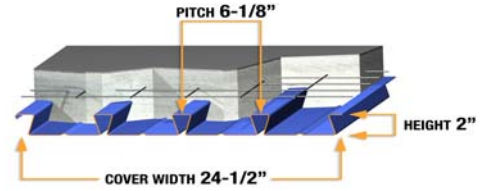
If welded wire fabric is not supplied per ACI requirements (0.00075'Ac), reduce loads by 10%. The section property table is based on 2001 AISI's Cold-Formed Steel Design Manual, 2004 Supplement. The live loads and unshored construction clear spans are based on the Steel Deck Institute's Composite Deck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

110 PCF LIGHTWEIGHT CONCRETE TABLE

SECTION PROPERTIES

fy=40 ksi

GAGE	Wd	I _D	S _p	S _n	Rbe			Rbi		
					2"	3"	4"	4"	5"	6"
22	2.23	0.407	0.288	0.281	1089	1254	1393	2076	2239	2386
20	2.71	0.495	0.361	0.347	1550	1777	1969	2947	3170	3372
18	3.58	0.658	0.483	0.484	2583	2942	3245	4892	5245	5563
16	4.51	0.832	0.614	0.617	3937	4461	4902	7441	7952	8414



MAXIMUM SUPERIMPOSED LRFD LOADS, (psf), NO STUDS ON BEAMS

h (Wc)		5 (42.8)				5.25 (45.1)				5.5 (47.4)				5.75 (49.7)			
Span	Load Combinations	GAGE															
		22	20	18	16	22	20	18	16	22	20	18	16	22	20	18	16
8'-0"	λ _D D+λ _L L (Strength)	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
	D+L (Deflection)	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
	L (Deflection)	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
9'-0"	λ _D D+λ _L L (Strength)	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
	D+L (Deflection)	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
	L (Deflection)	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
10'-0"	λ _D D+λ _L L (Strength)	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
	D+L (Deflection)	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
	L (Deflection)	368	397	400	400	400	400	400	400	400	400	400	400	400	400	400	400
11'-0"	λ _D D+λ _L L (Strength)	387	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
	D+L (Deflection)	370	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
	L (Deflection)	277	298	334	367	316	341	381	400	359	387	400	400	400	400	400	400
12'-0"	λ _D D+λ _L L (Strength)	345	369	400	400	372	392	400	400	395	400	400	400	400	400	400	400
	D+L (Deflection)	275	299	339	377	318	346	391	400	365	397	400	400	400	400	400	400
	L (Deflection)	213	230	257	283	244	262	293	323	277	298	333	366	313	336	376	400
13'-0"	λ _D D+λ _L L (Strength)	284	305	336	362	309	336	370	398	328	368	400	400	347	400	400	400
	D+L (Deflection)	206	225	257	286	240	262	297	331	277	301	342	380	317	344	390	400
	L (Deflection)	168	181	202	222	192	206	231	254	218	234	262	288	246	265	296	325
14'-0"	λ _D D+λ _L L (Strength)	236	254	280	302	258	280	309	333	274	307	339	365	291	335	370	399
	D+L (Deflection)	156	171	196	220	183	200	228	255	212	231	263	294	243	265	302	336
	L (Deflection)	134	145	162	178	153	165	185	203	174	188	210	230	197	212	237	260
15'-0"	λ _D D+λ _L L (Strength)	196	212	235	254	217	234	260	280	231	258	285	308	245	282	312	337
	D+L (Deflection)	119	131	151	170	140	154	177	198	163	179	205	229	188	206	235	263
	L (Deflection)	109	118	132	145	125	134	150	165	142	153	170	187	160	172	192	211
16'-0"	λ _D D+λ _L L (Strength)	164	178	198	215	182	197	219	238	196	217	241	261	208	238	265	286
	D+L (Deflection)	90	100	116	131	107	118	137	154	125	138	160	180	146	160	184	207
	L (Deflection)	90	97	108	119	103	111	124	136	117	126	140	154	132	142	159	174
17'-0"	λ _D D+λ _L L (Strength)	107	150	168	182	115	167	186	202	123	184	205	223	131	202	225	244
	D+L (Deflection)	67	76	89	102	81	91	106	120	96	107	125	141	113	125	145	164
	L (Deflection)	67	76	89	99	81	91	103	113	96	105	117	129	110	118	132	145
18'-0"	λ _D D+λ _L L (Strength)	89	126	142	155	95	141	158	172	102	156	175	190	109	143	162	209
	D+L (Deflection)	50	56	68	78	61	69	82	94	73	82	97	111	87	97	114	129
	L (Deflection)	50	56	68	78	61	69	82	94	73	82	97	108	87	97	111	122
19'-0"	λ _D D+λ _L L (Strength)	73	99	120	132	79	106	134	147	85	114	149	163	90	121	164	180
	D+L (Deflection)	35	41	51	59	45	51	62	72	55	62	75	86	66	75	89	102
	L (Deflection)	35	41	51	59	45	51	62	72	55	62	75	86	66	75	89	102
20'-0"	λ _D D+λ _L L (Strength)	60	83	102	112	65	89	114	125	70	96	127	139	74	102	141	154
	D+L (Deflection)	24	29	37	44	32	37	46	55	40	46	57	67	49	57	68	79
	L (Deflection)	24	29	37	44	32	37	46	55	40	46	57	67	49	57	68	79

MAXIMUM UNSHORED CONSTRUCTION CLEAR SPANS

1span	6'-6"	7'-6"	8'-10"	10'-2"	6'-5"	7'-4"	8'-8"	9'-11"	6'-3"	7'-2"	8'-6"	9'-9"	6'-2"	7'-1"	8'-4"	9'-7"
2span	8'-5"	9'-4"	11'-0"	12'-4"	8'-3"	9'-2"	10'-9"	12'-1"	8'-1"	9'-0"	10'-7"	11'-11"	8'-0"	8'-10"	10'-5"	11'-8"
3span	8'-8"	9'-8"	11'-4"	12'-9"	8'-6"	9'-5"	11'-2"	12'-6"	8'-5"	9'-3"	10'-11"	12'-4"	8'-3"	9'-2"	10'-9"	12'-1"
cantilever	2'-10"	3'-3"	4'-2"	4'-11"	2'-9"	3'-3"	4'-1"	4'-10"	2'-9"	3'-2"	4'-1"	4'-9"	2'-9"	3'-2"	4'-0"	4'-8"
cy/100sf	1.44				1.52				1.60				1.67			

8'-0"	λ _D D+λ _L L (Strength)	400	← Max. superimposed LRFD factored dead + live load (psf) (governed by strength limitation)
	D+L (Deflection)	400	← Max. superimposed LRFD unfactored dead + live load (psf) (governed by deflection limitation of L/240)
	L (Deflection)	400	← 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_D 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_D, λ_L 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

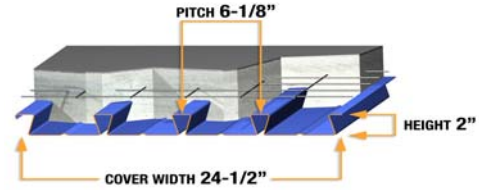
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110 PCF LIGHTWEIGHT CONCRETE TABLE

SECTION PROPERTIES

fy=40 ksi

GAGE	Wd	I _D	S _p	S _n	Rbe			Rbi		
					2"	3"	4"	4"	5"	6"
22	2.23	0.407	0.288	0.281	1089	1254	1393	2076	2239	2386
20	2.71	0.495	0.361	0.347	1550	1777	1969	2947	3170	3372
18	3.58	0.658	0.483	0.484	2583	2942	3245	4892	5245	5563
16	4.51	0.832	0.614	0.617	3937	4461	4902	7441	7952	8414



MAXIMUM SUPERIMPOSED LRFD LOADS, (psf), NO STUDS ON BEAMS

h (Wc)		6 (52.0)				6.25 (54.3)				6.5 (56.6)				6.75 (58.9)			
Span	Load Combinations	GAGE															
		22	20	18	16	22	20	18	16	22	20	18	16	22	20	18	16
8'-0"	λ _D D+λ _L L (Strength)	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
	D+L (Deflection)	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
	L (Deflection)	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
9'-0"	λ _D D+λ _L L (Strength)	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
	D+L (Deflection)	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
	L (Deflection)	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
10'-0"	λ _D D+λ _L L (Strength)	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
	D+L (Deflection)	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
	L (Deflection)	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
11'-0"	λ _D D+λ _L L (Strength)	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
	D+L (Deflection)	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
	L (Deflection)	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
12'-0"	λ _D D+λ _L L (Strength)	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
	D+L (Deflection)	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
	L (Deflection)	351	378	400	400	393	400	400	400	400	400	400	400	400	400	400	400
13'-0"	λ _D D+λ _L L (Strength)	366	400	400	400	386	400	400	400	400	400	400	400	400	400	400	400
	D+L (Deflection)	360	391	400	400	386	400	400	400	400	400	400	400	400	400	400	400
	L (Deflection)	276	297	332	365	309	332	371	400	344	370	400	400	382	400	400	400
14'-0"	λ _D D+λ _L L (Strength)	307	365	400	400	323	395	400	400	339	400	400	400	356	400	400	400
	D+L (Deflection)	277	302	343	381	314	342	387	400	339	385	400	400	356	400	400	400
	L (Deflection)	221	238	266	292	247	266	297	326	276	296	330	363	306	328	366	400
15'-0"	λ _D D+λ _L L (Strength)	259	307	340	367	273	333	369	399	287	355	399	400	300	372	400	400
	D+L (Deflection)	215	235	268	299	245	267	304	339	277	302	343	381	300	339	384	400
	L (Deflection)	180	193	216	237	201	216	241	265	224	241	269	295	248	267	298	327
16'-0"	λ _D D+λ _L L (Strength)	167	260	289	313	176	283	314	340	186	303	340	368	195	318	367	397
	D+L (Deflection)	167	184	211	237	176	210	240	269	186	238	272	303	195	268	305	340
	L (Deflection)	148	159	178	196	166	178	199	218	185	198	221	243	195	220	245	269
17'-0"	λ _D D+λ _L L (Strength)	139	221	246	267	147	241	268	291	155	201	291	316	163	211	314	341
	D+L (Deflection)	131	145	167	188	147	166	191	214	155	189	217	243	163	211	244	273
	L (Deflection)	124	133	148	163	138	149	166	182	154	165	185	203	163	183	205	224
18'-0"	λ _D D+λ _L L (Strength)	115	152	211	229	122	161	230	250	129	170	250	272	136	179	270	294
	D+L (Deflection)	102	113	132	149	118	131	152	171	129	150	173	195	136	170	196	220
	L (Deflection)	102	112	125	137	116	125	140	153	129	139	155	171	136	154	172	189
19'-0"	λ _D D+λ _L L (Strength)	96	129	181	197	101	136	197	215	107	144	215	234	113	151	233	254
	D+L (Deflection)	78	88	104	119	92	103	120	137	106	118	138	157	113	135	157	178
	L (Deflection)	78	88	104	117	92	103	119	130	106	118	132	145	113	131	146	161
20'-0"	λ _D D+λ _L L (Strength)	79	109	155	170	84	115	170	186	88	122	180	203	93	128	190	220
	D+L (Deflection)	59	68	81	94	71	80	95	109	83	93	110	125	93	107	126	143
	L (Deflection)	59	68	81	94	71	80	95	109	83	93	110	124	93	107	126	138

MAXIMUM UNSHORED CONSTRUCTION CLEAR SPANS

1span	6'-1"	6'-11"	8'-2"	9'-5"	5'-11"	6'-10"	8'-1"	9'-3"	5'-10"	6'-8"	7'-11"	9'-1"	5'-9"	6'-7"	7'-10"	8'-11"
2span	7'-10"	8'-8"	10'-3"	11'-6"	7'-9"	8'-7"	10'-1"	11'-4"	7'-7"	8'-5"	9'-11"	11'-2"	7'-6"	8'-4"	9'-9"	11'-0"
3span	8'-1"	9'-0"	10'-7"	11'-11"	8'-0"	8'-10"	10'-5"	11'-9"	7'-10"	8'-8"	10'-3"	11'-6"	7'-9"	8'-7"	10'-1"	11'-4"
cantilever	2'-8"	3'-1"	3'-11"	4'-8"	2'-8"	3'-1"	3'-11"	4'-7"	2'-7"	3'-1"	3'-10"	4'-6"	2'-7"	3'-0"	3'-10"	4'-6"
cy/100sf	1.75				1.83				1.91				1.98			

8'-0"	λ _D D+λ _L L (Strength)	400	← Max. superimposed LRFD factored dead + live load (psf) (governed by strength limitation)
	D+L (Deflection)	400	← Max. superimposed LRFD unfactored dead + live load (psf) (governed by deflection limitation of L/240)
	L (Deflection)	400	← 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_D 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_D, λ_L 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.

110 PCF LIGHTWEIGHT CONCRETE TABLE