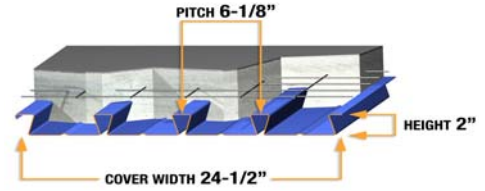


SECTION PROPERTIES

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 (35.2)				4.25 (37.6)				4.5 (40.0)				4.75 (42.4)			
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)	363	380	400	400	392	400	400	400	400	400	400	400	400	400	400	400
	D+L (Deflection)	363	380	400	400	392	400	400	400	400	400	400	400	400	400	400	400
	L (Deflection)	287	310	348	383	338	365	400	400	395	400	400	400	400	400	400	400
10'-0"	λ _D D+λ _L L (Strength)	324	339	367	400	350	367	397	400	376	394	400	400	400	400	400	400
	D+L (Deflection)	276	301	341	400	330	358	397	400	376	394	400	400	400	400	400	400
	L (Deflection)	209	226	253	279	246	266	298	328	288	310	347	382	334	360	400	400
11'-0"	λ _D D+λ _L L (Strength)	268	287	317	335	300	322	355	382	335	355	385	400	363	380	400	400
	D+L (Deflection)	198	216	247	315	238	259	295	328	282	307	348	386	331	360	400	400
	L (Deflection)	157	170	190	210	185	200	224	247	216	233	261	287	251	270	302	332
12'-0"	λ _D D+λ _L L (Strength)	216	232	257	278	243	261	288	311	271	292	322	347	302	324	357	385
	D+L (Deflection)	144	158	181	203	174	190	217	243	208	227	258	287	245	267	303	337
	L (Deflection)	121	131	147	162	143	154	172	190	167	180	201	221	193	208	233	256
13'-0"	λ _D D+λ _L L (Strength)	176	190	210	228	198	214	236	256	222	239	264	286	247	266	294	317
	D+L (Deflection)	105	116	134	151	128	141	162	182	154	169	194	217	183	200	229	255
	L (Deflection)	95	103	115	127	112	121	136	149	131	141	158	174	152	164	183	201
14'-0"	λ _D D+λ _L L (Strength)	144	156	173	188	163	176	195	212	183	197	219	237	204	220	244	264
	D+L (Deflection)	77	85	100	113	95	105	122	137	115	127	146	164	138	151	174	195
	L (Deflection)	76	82	92	102	90	97	109	120	105	113	127	139	122	131	147	161
15'-0"	λ _D D+λ _L L (Strength)	118	128	143	156	134	145	162	176	151	164	182	198	169	183	204	221
	D+L (Deflection)	55	62	74	84	70	78	91	104	86	95	111	125	104	115	133	150
	L (Deflection)	55	62	74	83	70	78	88	97	85	92	103	113	99	107	119	131
16'-0"	λ _D D+λ _L L (Strength)	97	106	119	130	110	120	135	147	125	136	152	166	140	153	171	186
	D+L (Deflection)	39	45	54	63	50	57	68	78	63	71	84	95	77	86	101	115
	L (Deflection)	39	45	54	63	50	57	68	78	63	71	84	93	77	86	98	108
17'-0"	λ _D D+λ _L L (Strength)	79	87	99	108	91	100	113	123	103	113	127	139	98	128	143	156
	D+L (Deflection)	26	31	39	46	35	41	50	58	46	52	62	72	57	65	77	88
	L (Deflection)	26	31	39	46	35	41	50	58	46	52	62	72	57	65	77	88
18'-0"	λ _D D+λ _L L (Strength)	65	72	82	90	68	82	94	103	74	94	107	117	81	106	120	132
	D+L (Deflection)	16	20	26	32	23	28	35	42	32	37	46	54	41	47	57	67
	L (Deflection)	16	20	26	32	23	28	35	42	32	37	46	54	41	47	57	67
19'-0"	λ _D D+λ _L L (Strength)	51	59	68	75	56	68	78	86	61	78	89	98	66	90	101	111
	D+L (Deflection)	8	11	17	21	14	18	24	30	21	25	32	39	28	33	42	50
	L (Deflection)	8	11	17	21	14	18	24	30	21	25	32	39	28	33	42	50
20'-0"	λ _D D+λ _L L (Strength)	41	57	55	62	45	63	64	72	50	69	74	82	54	75	84	93
	D+L (Deflection)	2	4	9	13	6	9	15	19	12	15	22	27	18	22	29	36
	L (Deflection)	2	4	9	13	6	9	15	19	12	15	22	27	18	22	29	36

MAXIMUM UNSHORED CONSTRUCTION CLEAR SPANS

1span	7'-0"	8'-1"	9'-7"	11'-0"	6'-10"	7'-10"	9'-4"	10'-8"	6'-8"	7'-8"	9'-1"	10'-5"	6'-7"	7'-6"	8'-11"	10'-2"
2span	9'-0"	9'-11"	11'-8"	13'-2"	8'-9"	9'-9"	11'-5"	12'-10"	8'-7"	9'-6"	11'-3"	12'-7"	8'-5"	9'-4"	11'-0"	12'-4"
3span	9'-3"	10'-3"	12'-1"	13'-7"	9'-1"	10'-1"	11'-10"	13'-4"	8'-11"	9'-10"	11'-7"	13'-0"	8'-9"	9'-8"	11'-4"	12'-9"
cantilever	2'-11"	3'-5"	4'-5"	5'-3"	2'-11"	3'-5"	4'-4"	5'-1"	2'-10"	3'-4"	4'-3"	5'-0"	2'-10"	3'-4"	4'-2"	4'-11"
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)	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

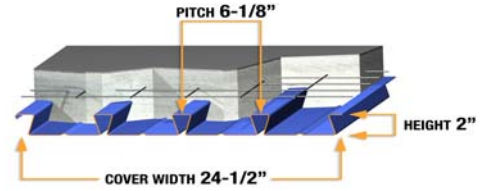
If welded wire fabric is not supplied per ACI requirements (0.00075'Ac), reduce loads by 10%. The section property table is based on 2001 AISI's Cold-Formed Steel Design Manual, 2004 Supplement. The live loads and unshored construction clear spans are based on the Steel Deck Institute's Composite Deck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

115 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 (44.8)				5.25 (47.2)				5.5 (49.6)				5.75 (52.0)			
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)	384	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
11'-0"	λ _D D+λ _L L (Strength)	386	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
	D+L (Deflection)	386	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
	L (Deflection)	288	311	347	382	330	355	396	400	375	400	400	400	400	400	400	400
12'-0"	λ _D D+λ _L L (Strength)	333	358	394	400	367	391	400	400	392	400	400	400	400	400	400	400
	D+L (Deflection)	286	311	353	392	331	360	400	400	381	400	400	400	400	400	400	400
	L (Deflection)	222	239	267	294	254	273	305	335	288	310	347	381	326	350	391	400
13'-0"	λ _D D+λ _L L (Strength)	274	295	325	351	301	324	358	386	325	356	393	400	344	388	400	400
	D+L (Deflection)	215	235	267	297	250	272	309	344	288	314	356	395	330	359	400	400
	L (Deflection)	175	188	210	231	200	215	240	264	227	244	273	299	256	276	308	338
14'-0"	λ _D D+λ _L L (Strength)	226	244	271	292	250	269	298	322	272	296	328	354	288	323	358	387
	D+L (Deflection)	163	178	204	228	190	208	238	265	221	241	274	305	254	276	314	349
	L (Deflection)	140	151	168	185	160	172	192	211	182	195	218	240	205	221	246	270
15'-0"	λ _D D+λ _L L (Strength)	188	203	226	245	208	225	250	271	229	248	275	298	242	271	301	326
	D+L (Deflection)	124	136	157	176	146	160	184	206	170	186	213	238	196	214	245	273
	L (Deflection)	114	122	137	151	130	140	156	172	148	159	177	195	167	179	200	220
16'-0"	λ _D D+λ _L L (Strength)	157	170	190	207	174	189	211	229	192	208	232	252	155	228	255	276
	D+L (Deflection)	93	104	121	137	111	123	142	161	131	144	166	187	152	167	192	215
	L (Deflection)	93	101	113	124	107	115	129	142	122	131	146	161	137	148	165	181
17'-0"	λ _D D+λ _L L (Strength)	105	143	160	175	113	159	178	194	121	175	196	214	129	193	216	235
	D+L (Deflection)	70	79	93	106	84	94	110	125	100	111	130	147	118	130	151	170
	L (Deflection)	70	79	93	103	84	94	107	118	100	109	122	134	115	123	138	151
18'-0"	λ _D D+λ _L L (Strength)	87	120	135	148	94	133	150	164	100	133	167	182	107	141	184	201
	D+L (Deflection)	52	59	70	81	63	71	85	97	76	86	101	115	91	101	118	134
	L (Deflection)	52	59	70	81	63	71	85	97	76	86	101	113	91	101	116	127
19'-0"	λ _D D+λ _L L (Strength)	72	97	114	125	77	104	127	140	82	112	141	155	88	119	156	171
	D+L (Deflection)	37	43	53	62	46	53	65	75	57	65	78	90	69	78	92	106
	L (Deflection)	37	43	53	62	46	53	65	75	57	65	78	90	69	78	92	106
20'-0"	λ _D D+λ _L L (Strength)	58	81	96	106	63	88	107	118	67	94	120	132	72	100	133	146
	D+L (Deflection)	25	30	38	46	33	39	48	57	42	48	59	69	51	59	71	83
	L (Deflection)	25	30	38	46	33	39	48	57	42	48	59	69	51	59	71	83

MAXIMUM UNSHORED CONSTRUCTION CLEAR SPANS

1span	6'-5"	7'-4"	8'-8"	10'-0"	6'-3"	7'-2"	8'-6"	9'-9"	6'-2"	7'-1"	8'-4"	9'-7"	6'-1"	6'-11"	8'-2"	9'-5"
2span	8'-3"	9'-2"	10'-10"	12'-2"	8'-1"	9'-0"	10'-7"	11'-11"	8'-0"	8'-10"	10'-5"	11'-9"	7'-10"	8'-8"	10'-3"	11'-6"
3span	8'-7"	9'-6"	11'-2"	12'-7"	8'-5"	9'-4"	10'-11"	12'-4"	8'-3"	9'-2"	10'-9"	12'-1"	8'-1"	9'-0"	10'-7"	11'-11"
cantilever	2'-9"	3'-3"	4'-1"	4'-10"	2'-9"	3'-2"	4'-1"	4'-9"	2'-9"	3'-2"	4'-0"	4'-9"	2'-8"	3'-1"	3'-11"	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

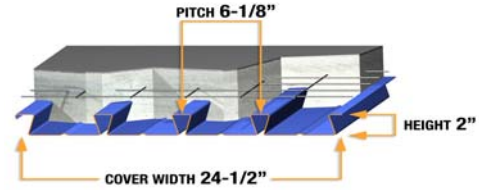
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115 PCF LIGHTWEIGHT CONCRETE TABLE

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 (54.4)				6.25 (56.8)				6.5 (59.2)				6.75 (61.6)			
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)	366	394	400	400	400	400	400	400	400	400	400	400	400	400	400	400
13'-0"	λ _D D+λ _L L (Strength)	363	400	400	400	383	400	400	400	400	400	400	400	400	400	400	400
	D+L (Deflection)	363	400	400	400	383	400	400	400	400	400	400	400	400	400	400	400
	L (Deflection)	288	310	345	379	322	346	386	400	359	385	400	400	398	400	400	400
14'-0"	λ _D D+λ _L L (Strength)	304	352	390	400	320	382	400	400	336	400	400	400	352	400	400	400
	D+L (Deflection)	289	315	357	396	320	356	400	400	336	400	400	400	352	400	400	400
	L (Deflection)	231	248	277	304	258	277	309	339	287	309	344	377	319	342	381	400
15'-0"	λ _D D+λ _L L (Strength)	256	296	328	356	270	321	357	386	283	347	386	400	232	369	400	400
	D+L (Deflection)	225	245	279	311	256	279	316	352	283	314	357	396	232	353	400	400
	L (Deflection)	188	202	225	247	210	225	251	276	234	251	280	307	232	278	310	340
16'-0"	λ _D D+λ _L L (Strength)	165	249	278	302	174	271	302	328	183	294	328	356	193	315	354	384
	D+L (Deflection)	165	192	220	246	174	219	250	280	183	248	283	315	193	280	318	354
	L (Deflection)	155	166	185	203	173	186	207	227	183	207	230	253	193	229	255	280
17'-0"	λ _D D+λ _L L (Strength)	137	211	236	257	144	188	258	280	152	199	280	304	160	209	302	329
	D+L (Deflection)	137	151	174	195	144	173	198	223	152	197	225	252	160	209	254	284
	L (Deflection)	129	138	154	170	144	155	173	189	152	172	192	211	160	191	213	234
18'-0"	λ _D D+λ _L L (Strength)	113	150	201	220	120	159	220	240	126	168	239	261	133	177	259	283
	D+L (Deflection)	106	118	137	155	120	136	158	178	126	156	180	203	133	177	204	229
	L (Deflection)	106	117	130	143	120	130	145	160	126	145	162	178	133	161	179	197
19'-0"	λ _D D+λ _L L (Strength)	93	127	172	188	99	134	188	206	104	142	205	224	110	149	223	244
	D+L (Deflection)	82	92	108	123	96	107	125	142	104	123	144	163	110	141	163	185
	L (Deflection)	82	92	108	121	96	107	124	136	104	123	138	151	110	137	152	167
20'-0"	λ _D D+λ _L L (Strength)	76	106	147	161	81	113	168	177	86	119	178	193	90	125	188	210
	D+L (Deflection)	62	70	84	97	74	83	99	113	86	97	114	130	90	112	131	149
	L (Deflection)	62	70	84	97	74	83	99	113	86	97	114	129	90	112	131	143

MAXIMUM UNSHORED CONSTRUCTION CLEAR SPANS

1span	5'-11"	6'-10"	8'-1"	9'-3"	5'-10"	6'-8"	7'-11"	9'-1"	5'-9"	6'-7"	7'-9"	8'-11"	5'-8"	6'-6"	7'-8"	8'-9"
2span	7'-8"	8'-7"	10'-1"	11'-4"	7'-7"	8'-5"	9'-11"	11'-2"	7'-6"	8'-3"	9'-9"	11'-0"	7'-4"	8'-2"	9'-7"	10'-10"
3span	8'-0"	8'-10"	10'-5"	11'-9"	7'-10"	8'-8"	10'-3"	11'-6"	7'-9"	8'-7"	10'-1"	11'-4"	7'-7"	8'-5"	9'-11"	11'-2"
cantilever	2'-8"	3'-1"	3'-11"	4'-7"	2'-7"	3'-1"	3'-10"	4'-6"	2'-7"	3'-0"	3'-10"	4'-5"	2'-7"	3'-0"	3'-9"	4'-5"
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.

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