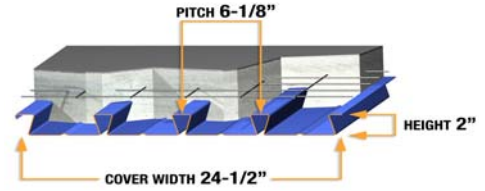


SECTION PROPERTIES

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 (36.7)				4.25 (39.2)				4.5 (41.7)				4.75 (44.2)			
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)	362	380	400	400	392	400	400	400	400	400	400	400	400	400	400	400
	D+L (Deflection)	362	380	400	400	392	400	400	400	400	400	400	400	400	400	400	400
	L (Deflection)	298	322	361	398	352	379	400	400	400	400	400	400	400	400	400	400
10'-0"	λ _D D+λ _L L (Strength)	323	339	367	400	349	366	397	400	375	394	400	400	400	400	400	400
	D+L (Deflection)	287	312	354	400	343	366	397	400	375	394	400	400	400	400	400	400
	L (Deflection)	217	235	263	290	256	276	309	341	299	323	361	397	347	374	400	400
11'-0"	λ _D D+λ _L L (Strength)	259	278	307	332	291	312	344	372	324	348	384	400	360	379	400	400
	D+L (Deflection)	206	225	256	285	247	269	306	340	293	319	361	400	345	374	400	400
	L (Deflection)	163	176	198	218	193	208	232	256	225	242	271	298	261	281	314	345
12'-0"	λ _D D+λ _L L (Strength)	208	224	249	269	234	252	279	302	262	282	312	337	291	314	346	374
	D+L (Deflection)	150	164	188	210	181	198	226	252	216	236	268	298	255	277	315	350
	L (Deflection)	126	136	152	168	148	160	179	197	173	187	209	230	201	216	242	266
13'-0"	λ _D D+λ _L L (Strength)	169	182	203	220	190	206	228	247	214	231	256	277	238	257	284	308
	D+L (Deflection)	109	121	139	157	133	147	168	189	160	176	201	225	190	208	237	265
	L (Deflection)	99	107	120	132	117	126	141	155	136	147	164	181	158	170	190	209
14'-0"	λ _D D+λ _L L (Strength)	137	149	167	181	156	169	188	204	175	190	211	229	196	212	235	255
	D+L (Deflection)	80	89	103	117	99	109	126	142	120	132	152	171	143	157	180	202
	L (Deflection)	79	85	96	106	93	101	113	124	109	118	132	145	127	136	152	167
15'-0"	λ _D D+λ _L L (Strength)	112	122	137	150	128	139	156	170	144	157	175	191	161	175	196	213
	D+L (Deflection)	58	65	76	87	72	81	95	108	89	99	115	130	108	119	138	155
	L (Deflection)	58	65	76	86	72	81	92	101	89	96	107	118	103	111	124	136
16'-0"	λ _D D+λ _L L (Strength)	92	100	113	124	105	114	129	141	119	130	146	159	133	146	163	178
	D+L (Deflection)	41	46	56	65	52	59	70	81	66	74	87	99	81	90	105	119
	L (Deflection)	41	46	56	65	52	59	70	81	66	74	87	97	81	90	102	112
17'-0"	λ _D D+λ _L L (Strength)	74	82	94	103	86	94	107	117	97	107	121	133	96	121	137	150
	D+L (Deflection)	27	32	40	47	37	42	52	60	47	54	65	75	59	67	80	91
	L (Deflection)	27	32	40	47	37	42	52	60	47	54	65	75	59	67	80	91
18'-0"	λ _D D+λ _L L (Strength)	61	67	77	85	67	77	88	98	73	88	101	111	79	100	114	126
	D+L (Deflection)	17	21	27	33	24	29	37	44	33	38	47	56	43	49	60	69
	L (Deflection)	17	21	27	33	24	29	37	44	33	38	47	56	43	49	60	69
19'-0"	λ _D D+λ _L L (Strength)	49	54	63	70	54	63	73	81	59	81	84	93	65	88	95	105
	D+L (Deflection)	9	12	17	22	15	18	25	31	21	26	34	40	29	35	43	52
	L (Deflection)	9	12	17	22	15	18	25	31	21	26	34	40	29	35	43	52
20'-0"	λ _D D+λ _L L (Strength)	39	56	51	57	44	62	59	67	48	68	69	77	52	74	79	88
	D+L (Deflection)	2	4	9	13	7	10	15	20	12	16	22	28	19	23	30	37
	L (Deflection)	2	4	9	13	7	10	15	20	12	16	22	28	19	23	30	37

MAXIMUM UNSHORED CONSTRUCTION CLEAR SPANS

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

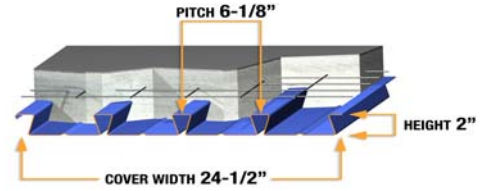
If welded wire fabric is not supplied per ACI requirements (0.00075'Ac), reduce loads by 10%. The section property table is based on 2001 AISI's Cold-Formed Steel Design Manual, 2004 Supplement. The live loads and unshored construction clear spans are based on the Steel Deck Institute's Composite Deck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

120 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 (46.7)				5.25 (49.2)				5.5 (51.7)				5.75 (54.2)			
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)	385	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
	D+L (Deflection)	385	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
	L (Deflection)	300	323	361	396	343	369	400	400	390	400	400	400	400	400	400	400
12'-0"	λ _D D+λ _L L (Strength)	322	347	383	400	354	381	400	400	388	400	400	400	400	400	400	400
	D+L (Deflection)	298	324	366	400	345	374	400	400	388	400	400	400	400	400	400	400
	L (Deflection)	231	249	278	305	264	284	317	348	300	323	360	395	339	365	400	400
13'-0"	λ _D D+λ _L L (Strength)	264	284	315	341	291	313	347	375	319	344	381	400	342	375	400	400
	D+L (Deflection)	224	244	277	309	260	283	321	357	300	326	369	400	342	373	400	400
	L (Deflection)	182	196	219	240	208	224	249	274	236	254	283	311	267	287	320	351
14'-0"	λ _D D+λ _L L (Strength)	217	235	261	283	240	260	288	312	264	285	317	343	285	312	346	375
	D+L (Deflection)	169	185	212	237	198	216	247	275	230	250	285	317	264	287	326	362
	L (Deflection)	146	157	175	192	166	179	200	219	189	203	227	249	214	230	256	281
15'-0"	λ _D D+λ _L L (Strength)	180	195	218	237	199	216	241	262	219	238	265	288	240	261	291	315
	D+L (Deflection)	129	142	163	183	151	166	191	214	177	193	221	247	204	223	254	284
	L (Deflection)	118	127	142	156	135	146	162	178	154	165	184	202	174	187	208	228
16'-0"	λ _D D+λ _L L (Strength)	149	163	182	199	166	180	202	220	144	199	223	243	153	219	245	267
	D+L (Deflection)	97	108	125	142	116	128	148	167	136	150	172	194	153	174	199	223
	L (Deflection)	97	105	117	129	112	120	134	147	127	136	152	167	143	154	171	188
17'-0"	λ _D D+λ _L L (Strength)	104	136	153	167	111	151	170	186	119	167	188	206	127	184	207	226
	D+L (Deflection)	73	82	96	110	88	98	114	130	104	116	135	152	123	135	156	176
	L (Deflection)	73	82	96	107	88	98	112	123	104	114	127	139	119	128	143	157
18'-0"	λ _D D+λ _L L (Strength)	85	113	128	141	92	123	143	157	98	131	159	174	104	140	175	192
	D+L (Deflection)	54	61	73	84	66	74	88	101	79	89	105	119	94	105	123	139
	L (Deflection)	54	61	73	84	66	74	88	101	79	89	105	117	94	105	120	132
19'-0"	λ _D D+λ _L L (Strength)	70	95	107	119	75	103	120	133	80	110	134	148	86	117	148	163
	D+L (Deflection)	38	45	55	64	48	55	67	78	59	67	81	93	72	81	96	110
	L (Deflection)	38	45	55	64	48	55	67	78	59	67	81	93	72	81	96	110
20'-0"	λ _D D+λ _L L (Strength)	56	80	89	99	61	86	101	112	65	92	113	125	70	98	125	139
	D+L (Deflection)	26	31	40	48	34	40	50	59	43	50	61	72	53	61	74	86
	L (Deflection)	26	31	40	48	34	40	50	59	43	50	61	72	53	61	74	86

MAXIMUM UNSHORED CONSTRUCTION CLEAR SPANS

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

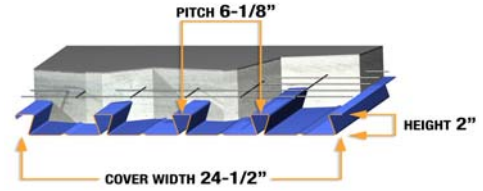
If welded wire fabric is not supplied per ACI requirements (0.00075'Ac), reduce loads by 10%. The section property table is based on 2001 AISI's Cold-Formed Steel Design Manual, 2004 Supplement. The live loads and unshored construction clear spans are based on the Steel Deck Institute's Composite Deck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

120 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 (56.7)				6.25 (59.2)				6.5 (61.7)				6.75 (64.2)			
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)	382	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
13'-0"	λ _D D+λ _L L (Strength)	361	400	400	400	380	400	400	400	399	400	400	400	400	400	400	400
	D+L (Deflection)	361	400	400	400	380	400	400	400	399	400	400	400	400	400	400	400
	L (Deflection)	300	322	359	394	336	360	400	400	374	400	400	400	400	400	400	400
14'-0"	λ _D D+λ _L L (Strength)	301	340	377	400	317	368	400	400	333	398	400	400	349	400	400	400
	D+L (Deflection)	301	327	371	400	317	368	400	400	333	398	400	400	349	400	400	400
	L (Deflection)	240	258	287	315	269	288	321	352	299	321	357	392	332	356	396	400
15'-0"	λ _D D+λ _L L (Strength)	253	284	317	344	267	309	344	374	219	334	373	400	230	361	400	400
	D+L (Deflection)	234	255	290	323	266	290	329	366	219	327	371	400	230	361	400	400
	L (Deflection)	195	210	234	256	219	235	261	286	219	261	291	319	230	290	322	353
16'-0"	λ _D D+λ _L L (Strength)	163	239	268	291	172	260	291	317	181	282	316	344	190	305	341	371
	D+L (Deflection)	163	200	228	256	172	228	260	290	181	258	294	328	190	291	330	368
	L (Deflection)	161	173	193	211	172	193	215	236	181	215	239	263	190	239	265	291
17'-0"	λ _D D+λ _L L (Strength)	134	176	227	248	142	186	247	270	150	197	269	293	158	207	291	317
	D+L (Deflection)	134	157	180	203	142	180	206	231	150	197	234	262	158	207	264	295
	L (Deflection)	134	144	161	176	142	161	179	197	150	179	200	219	158	199	221	243
18'-0"	λ _D D+λ _L L (Strength)	111	148	192	211	117	157	210	230	124	165	229	251	130	174	248	272
	D+L (Deflection)	111	123	142	161	117	142	164	185	124	162	187	210	130	174	212	238
	L (Deflection)	111	121	135	148	117	136	151	166	124	151	168	184	130	168	186	204
19'-0"	λ _D D+λ _L L (Strength)	91	124	163	180	96	132	179	197	102	139	195	215	107	146	212	233
	D+L (Deflection)	85	95	112	128	96	111	130	148	102	128	149	169	107	146	170	192
	L (Deflection)	85	95	112	126	96	111	129	141	102	128	143	157	107	143	159	174
20'-0"	λ _D D+λ _L L (Strength)	74	104	157	153	78	110	167	168	83	117	176	184	87	123	185	201
	D+L (Deflection)	65	73	87	101	77	86	102	117	83	101	119	135	87	116	136	155
	L (Deflection)	65	73	87	101	77	86	102	117	83	101	119	134	87	116	136	149

MAXIMUM UNSHORED CONSTRUCTION CLEAR SPANS

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

120 PCF LIGHTWEIGHT CONCRETE TABLE