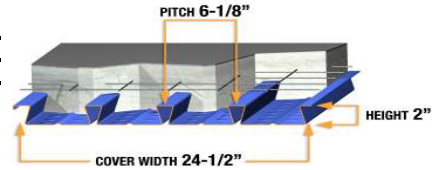


2" high x 6-1/8" pitch x 24-1/2" wide

**SECTION PROPERTIES**

fy=40 ksi

GAGE	Wd	I <sub>b</sub>	Sp	Sn	Rbe			Rbi		
					2"	3"	4"	4"	5"	6"
22	2.23	0.407	0.288	0.281	968	1115	1238	1832	1975	2105
20	2.71	0.495	0.361	0.347	1378	1580	1750	2600	2797	2976
18	3.58	0.658	0.483	0.484	2296	2615	2884	4317	4628	4908
16	4.51	0.832	0.614	0.617	3500	3965	4357	6566	7017	7424



**SIMPLE SPAN - MAXIMUM SUPERIMPOSED LSD LOADS, (psf), NO STUDS ON BEAMS**

Span	h (Wc)	Load Combinations	4" (44.39)				4.25" (47.41)				4.5" (50.43)				4.75" (53.45)			
			GAGE															
			22	20	18	16	22	20	18	16	22	20	18	16	22	20	18	16
8' - 0"	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	D+L (Deflection)	283	392	400	400	309	405	500	500	335	416	500	500	362	423	500	500
		L (Deflection)	283	392	400	400	309	400	400	400	335	400	400	400	362	400	400	400
		L (Deflection)	283	392	400	400	309	400	400	400	335	400	400	400	362	400	400	400
9' - 0"	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	D+L (Deflection)	218	246	408	499	238	309	424	500	259	336	437	500	280	363	448	500
		L (Deflection)	218	246	400	400	238	309	400	400	259	336	400	400	280	363	400	400
		L (Deflection)	218	246	400	400	238	309	400	400	259	336	400	400	280	363	400	400
10' - 0"	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	D+L (Deflection)	172	227	275	404	188	248	279	425	204	269	379	439	221	291	421	451
		L (Deflection)	172	227	275	400	188	248	279	400	204	269	379	400	221	291	400	400
		L (Deflection)	172	227	275	342	188	248	279	400	204	269	379	400	221	291	400	400
11' - 0"	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	D+L (Deflection)	137	185	236	287	150	202	266	290	163	220	298	325	177	238	332	362
		L (Deflection)	137	185	236	287	150	202	266	290	163	220	298	325	177	238	332	362
		L (Deflection)	137	185	234	257	150	202	266	290	163	220	298	325	177	238	332	362
12' - 0"	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	D+L (Deflection)	111	153	186	204	122	167	211	231	132	182	237	259	143	197	265	289
		L (Deflection)	111	153	186	204	122	167	211	231	132	182	237	259	143	197	265	289
		L (Deflection)	111	153	180	198	122	167	211	231	132	182	237	259	143	197	265	289
13' - 0"	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	D+L (Deflection)	90	125	148	163	99	137	168	185	108	149	190	208	117	161	212	233
		L (Deflection)	90	125	148	163	99	137	168	185	108	149	190	208	117	161	212	233
		L (Deflection)	90	125	142	156	99	137	167	183	108	149	190	208	117	161	212	233
14' - 0"	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	D+L (Deflection)	74	102	117	130	81	112	134	148	89	123	152	168	96	133	171	189
		L (Deflection)	74	102	117	130	81	112	134	148	89	123	152	168	96	133	171	189
		L (Deflection)	74	102	113	125	81	112	133	147	89	123	152	168	96	133	171	189
15' - 0"	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	D+L (Deflection)	60	79	92	103	66	92	106	119	73	101	121	135	72	110	137	153
		L (Deflection)	60	77	90	103	66	92	106	119	73	101	121	135	72	110	137	153
		L (Deflection)	60	77	90	101	66	92	106	119	73	101	121	135	72	110	137	153
16' - 0"	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	D+L (Deflection)	42	61	72	82	47	71	84	94	52	82	96	108	57	92	110	123
		L (Deflection)	42	55	66	76	47	70	83	94	52	82	96	108	57	92	110	123
		L (Deflection)	42	55	66	76	47	70	83	94	52	82	96	108	57	92	110	123
17' - 0"	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	D+L (Deflection)	33	45	55	64	36	54	65	74	40	63	76	86	44	73	87	99
		L (Deflection)	33	38	47	55	36	50	61	71	40	63	76	86	44	73	87	99
		L (Deflection)	33	38	47	55	36	50	61	71	40	63	76	86	44	73	87	99
18' - 0"	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	D+L (Deflection)	24	33	41	48	28	46	49	58	31	51	58	68	34	56	68	78
		L (Deflection)	20	25	32	39	28	34	43	51	31	46	56	66	34	56	68	78
		L (Deflection)	20	25	32	39	28	34	43	51	31	46	56	66	34	56	68	78
19' - 0"	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	D+L (Deflection)	18	32	29	36	20	36	36	43	23	40	44	52	25	45	52	61
		L (Deflection)	10	14	20	26	17	22	29	36	23	31	39	48	25	41	51	61
		L (Deflection)	10	14	20	26	17	22	29	36	23	31	39	48	25	41	51	61
20' - 0"	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	D+L (Deflection)	12	25	19	25	14	28	25	31	16	32	31	38	18	35	38	46
		L (Deflection)	2	5	10	15	8	11	18	23	15	19	26	33	18	27	36	44
		L (Deflection)	2	5	10	15	8	11	18	23	15	19	26	33	18	27	36	44

**MAXIMUM UNSHORED CONSTRUCTION CLEAR SPANS**

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

8' - 0"	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	283
	D+L (Deflection)	283
	L (Deflection)	283

- ← Max. superimposed LSD factored dead + live load (psf) (governed by strength limitation)
- ← Max. superimposed LSD unfactored dead + live load (psf) (governed by deflection limitation of L/240)
- ← Max. superimposed LSD 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<sub>b</sub> Moment of inertia for deflection per foot of deck width (in<sup>4</sup>/ft)
- Sp Section modulus for positive bending per foot of deck width, (in<sup>3</sup>/ft)
- Sn Section modulus for negative bending per foot of deck width, (in<sup>3</sup>/ft)
- f<sub>c</sub> 3000 psi

- Rbe Allowable exterior web crippling value per foot of deck, pf
- Rbi Allowable interior web crippling value per foot of deck, pf
- h Total height of concrete slab, in
- Wc Weight of concrete (neglecting deflection), psf
- D Uniform dead load, psf
- L Uniform live load, psf

α<sub>D</sub>, α<sub>L</sub> Load factors for dead and live loads, respectively, to be applied by Engineer in accordance with Building Codes

Construction spans shown based on 1.5" exterior bearing and 3" interior bearing width.

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 Canadian Sheet Steel Building Institute's Standard for Composite Steel Deck (CSSBI 12M-06), September 2006 and Criteria for the Design of Composite Slabs (CSSBI S3-2002), September 2003.

The loads in these tables are based on a Simple Span Design Analysis.

**145 PCF CONCRETE**

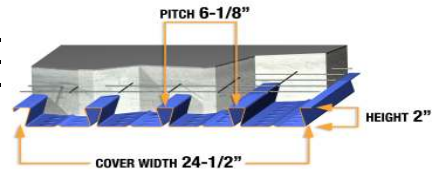
**VERSA-DEK® XLS FLOOR (LSD)**

2" high x 6-1/8" pitch x 24-1/2" wide

**SECTION PROPERTIES**

fy=40 ksi

GAGE	Wd	I <sub>b</sub>	Sp	Sn	Rbe			Rbi		
					2"	3"	4"	4"	5"	6"
22	2.23	0.407	0.288	0.281	968	1115	1238	1832	1975	2105
20	2.71	0.495	0.361	0.347	1378	1580	1750	2600	2797	2976
18	3.58	0.658	0.483	0.484	2296	2615	2884	4317	4628	4908
16	4.51	0.832	0.614	0.617	3500	3965	4357	6566	7017	7424



**SIMPLE SPAN - MAXIMUM SUPERIMPOSED LSD LOADS, (psf), NO STUDS ON BEAMS**

Span	h (Wc)	Load Combinations	5" (56.47)				5.25" (59.49)				5.5" (62.51)				5.75" (65.53)			
			GAGE															
			22	20	18	16	22	20	18	16	22	20	18	16	22	20	18	16
8' - 0"	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	D+L (Deflection)	389	427	500	500	416	429	500	500	443	426	500	500	471	500	500	500
		L (Deflection)	389	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
		L (Deflection)	389	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
9' - 0"	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	D+L (Deflection)	301	390	455	500	322	417	459	500	343	445	461	500	365	473	458	500
		L (Deflection)	301	390	400	400	322	400	400	400	343	400	400	400	365	400	400	400
		L (Deflection)	301	390	400	400	322	400	400	400	343	400	400	400	365	400	400	400
10' - 0"	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	D+L (Deflection)	237	313	465	460	254	336	500	466	271	358	500	500	289	381	500	500
		L (Deflection)	237	313	400	400	254	336	400	400	271	358	400	400	289	381	400	400
		L (Deflection)	237	313	400	400	254	336	400	400	271	358	400	400	289	381	400	400
11' - 0"	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	D+L (Deflection)	190	256	368	400	204	274	405	441	218	293	444	484	232	312	485	500
		L (Deflection)	190	256	368	400	204	274	400	400	218	293	400	400	232	312	400	400
		L (Deflection)	190	256	368	400	204	274	400	400	218	293	400	400	232	312	400	400
12' - 0"	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	D+L (Deflection)	155	212	294	321	166	227	325	355	177	243	357	390	189	259	390	426
		L (Deflection)	155	212	294	321	166	227	325	355	177	243	357	390	189	259	390	400
		L (Deflection)	155	212	294	321	166	227	325	355	177	243	357	390	189	259	390	400
13' - 0"	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	D+L (Deflection)	126	174	237	260	136	187	262	287	145	199	289	316	155	212	317	347
		L (Deflection)	126	174	237	260	136	187	262	287	145	199	289	316	155	212	317	347
		L (Deflection)	126	174	237	260	136	187	262	287	145	199	289	316	155	212	317	347
14' - 0"	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	D+L (Deflection)	104	144	191	211	112	154	212	234	111	165	235	258	119	176	258	284
		L (Deflection)	104	144	191	211	112	154	212	234	111	165	235	258	119	176	258	284
		L (Deflection)	104	144	191	211	112	154	212	234	111	165	235	258	119	176	258	284
15' - 0"	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	D+L (Deflection)	78	119	154	171	84	128	172	191	90	137	191	212	96	146	211	233
		L (Deflection)	78	119	154	171	84	128	172	191	90	137	191	212	96	146	211	233
		L (Deflection)	78	119	154	171	84	128	172	191	90	137	191	212	96	146	211	233
16' - 0"	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	D+L (Deflection)	62	99	124	139	67	107	140	156	72	106	156	173	77	113	172	192
		L (Deflection)	62	99	124	139	67	107	140	156	72	106	156	173	77	113	172	192
		L (Deflection)	62	99	124	139	67	107	140	156	72	106	156	173	77	113	172	192
17' - 0"	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	D+L (Deflection)	49	74	99	112	53	81	112	126	57	87	126	142	61	93	140	157
		L (Deflection)	49	74	99	112	53	81	112	126	57	87	126	142	61	93	140	157
		L (Deflection)	49	74	99	112	53	81	112	126	57	87	126	142	61	93	140	157
18' - 0"	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	D+L (Deflection)	38	61	79	90	41	66	90	102	44	71	101	115	48	76	114	129
		L (Deflection)	38	61	79	90	41	66	90	102	44	71	101	115	48	76	114	129
		L (Deflection)	38	61	79	90	41	66	90	102	44	71	101	115	48	76	114	129
19' - 0"	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	D+L (Deflection)	28	49	61	71	31	53	70	81	34	57	80	92	37	62	91	104
		L (Deflection)	28	49	61	71	31	53	70	81	34	57	80	92	37	62	91	104
		L (Deflection)	28	49	61	71	31	53	70	81	34	57	80	92	37	62	91	104
20' - 0"	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	D+L (Deflection)	20	39	46	55	22	42	54	64	25	46	85	73	27	50	95	83
		L (Deflection)	20	37	46	55	22	42	54	64	25	46	73	73	27	50	87	83
		L (Deflection)	20	37	46	55	22	42	54	64	25	46	73	73	27	50	87	83

**MAXIMUM UNSHORED CONSTRUCTION CLEAR SPANS**

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

8' - 0"	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	389	← Max. superimposed LSD factored dead + live load (psf) (governed by strength limitation)
	D+L (Deflection)	389	← Max. superimposed LSD unfactored dead + live load (psf) (governed by deflection limitation of L/240)
	L (Deflection)	389	← Max. superimposed LSD 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<sub>b</sub>** Moment of inertia for deflection per foot of deck width (in<sup>4</sup>/ft)
- Sp** Section modulus for positive bending per foot of deck width, (in<sup>3</sup>/ft)
- Sn** Section modulus for negative bending per foot of deck width, (in<sup>3</sup>/ft)
- fc** 3000 psi
- α<sub>D</sub>, α<sub>L</sub> Load factors for dead and live loads, respectively, to be applied by Engineer in accordance with Building Codes
- Rbe** Allowable exterior web crippling value per foot of deck, pf
- Rbi** Allowable interior web crippling value per foot of deck, pf
- 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 1.5" exterior bearing and 3" interior bearing width.  
 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 Canadian Sheet Steel Building Institute's Standard for Composite Steel Deck (CSSBI 12M-06), September 2006 and Criteria for the Design of Composite Slabs (CSSBI S3-2002), September 2003. The loads in these tables are based on a Simple Span Design Analysis.

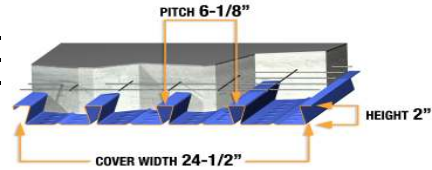
**145 PCF CONCRETE**

2" high x 6-1/8" pitch x 24-1/2" wide

**SECTION PROPERTIES**

fy=40 ksi

GAGE	Wd	I <sub>b</sub>	S <sub>p</sub>	S <sub>n</sub>	Rbe			Rbi		
					2"	3"	4"	4"	5"	6"
22	2.23	0.407	0.288	0.281	968	1115	1238	1832	1975	2105
20	2.71	0.495	0.361	0.347	1378	1580	1750	2600	2797	2976
18	3.58	0.658	0.483	0.484	2296	2615	2884	4317	4628	4908
16	4.51	0.832	0.614	0.617	3500	3965	4357	6566	7017	7424



**SIMPLE SPAN - MAXIMUM SUPERIMPOSED LSD LOADS, (psf), NO STUDS ON BEAMS**

Span	h (Wc)	Load Combinations	6" (68.55)				6.25" (71.58)				6.5" (74.6)				6.75" (77.62)			
			GAGE															
			22	20	18	16	22	20	18	16	22	20	18	16	22	20	18	16
8' - 0"	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	D+L (Deflection)	499	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500
		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"	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	D+L (Deflection)	387	500	500	500	408	500	500	500	430	500	500	500	452	500	500	500
		L (Deflection)	387	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
		L (Deflection)	387	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
10' - 0"	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	D+L (Deflection)	306	404	500	500	323	426	500	500	341	450	500	500	358	473	500	500
		L (Deflection)	306	400	400	400	323	400	400	400	341	400	400	400	358	400	400	400
		L (Deflection)	306	400	400	400	323	400	400	400	341	400	400	400	358	400	400	400
11' - 0"	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	D+L (Deflection)	246	330	500	500	260	349	500	500	274	368	500	500	289	388	500	500
		L (Deflection)	246	330	400	400	260	349	400	400	274	368	400	400	289	388	400	400
		L (Deflection)	246	330	400	400	260	349	400	400	274	368	400	400	289	388	400	400
12' - 0"	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	D+L (Deflection)	200	274	425	464	212	290	449	500	224	306	474	500	235	322	499	500
		L (Deflection)	200	274	400	400	212	290	400	400	224	306	400	400	235	322	400	400
		L (Deflection)	200	274	400	400	212	290	400	400	224	306	400	400	235	322	400	400
13' - 0"	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	D+L (Deflection)	164	226	346	379	174	239	374	411	173	252	395	446	183	265	416	481
		L (Deflection)	164	226	346	379	174	239	374	400	173	252	395	400	183	265	400	400
		L (Deflection)	164	226	346	379	174	239	374	400	173	252	395	400	183	265	400	400
14' - 0"	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	D+L (Deflection)	126	187	283	311	134	198	308	338	142	209	332	367	150	220	350	397
		L (Deflection)	126	187	283	311	134	198	308	338	142	209	332	367	150	220	350	397
		L (Deflection)	126	187	283	311	134	198	308	338	142	209	332	367	150	220	350	397
15' - 0"	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	D+L (Deflection)	103	156	232	256	109	165	253	279	116	164	275	304	122	173	296	329
		L (Deflection)	103	156	232	256	109	165	253	279	116	164	275	304	122	173	296	329
		L (Deflection)	103	156	232	256	109	165	253	279	116	164	275	304	122	173	296	329
16' - 0"	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	D+L (Deflection)	82	120	190	211	88	128	208	231	93	135	227	252	98	143	247	274
		L (Deflection)	82	120	190	211	88	128	208	231	93	135	227	252	98	143	247	274
		L (Deflection)	82	120	190	211	88	128	208	231	93	135	227	252	98	143	247	274
17' - 0"	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	D+L (Deflection)	66	99	155	174	70	105	171	191	74	112	187	209	79	118	204	228
		L (Deflection)	66	99	155	174	70	105	171	191	74	112	187	209	79	118	204	228
		L (Deflection)	66	99	155	174	70	105	171	191	74	112	187	209	79	118	204	228
18' - 0"	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	D+L (Deflection)	52	81	126	143	55	87	140	158	59	92	154	173	62	97	168	189
		L (Deflection)	52	81	126	143	55	87	140	158	59	92	154	173	62	97	168	189
		L (Deflection)	52	81	126	143	55	87	140	158	59	92	154	173	62	97	168	189
19' - 0"	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	D+L (Deflection)	40	66	102	117	43	71	134	129	46	75	142	143	49	80	150	157
		L (Deflection)	40	66	102	117	43	71	134	129	46	75	142	143	49	80	150	157
		L (Deflection)	40	66	102	117	43	71	134	129	46	75	142	143	49	80	150	157
20' - 0"	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	D+L (Deflection)	29	54	106	94	32	57	114	105	28	61	121	117	30	65	128	129
		L (Deflection)	29	54	104	94	32	57	114	105	28	61	121	117	30	65	128	129
		L (Deflection)	29	54	104	94	32	57	114	105	28	61	121	117	30	65	128	129

**MAXIMUM UNSHORED CONSTRUCTION CLEAR SPANS**

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

8' - 0"	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	499	← Max. superimposed LSD factored dead + live load (psf) (governed by strength limitation)
	D+L (Deflection)	400	← Max. superimposed LSD unfactored dead + live load (psf) (governed by deflection limitation of L/240)
	L (Deflection)	400	← Max. superimposed LSD 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<sub>b</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
- α<sub>D</sub>, α<sub>L</sub> Load factors for dead and live loads, respectively, to be applied by Engineer in accordance with Building Codes
- Rbe** Allowable exterior web crippling value per foot of deck, pf
- Rbi** Allowable interior web crippling value per foot of deck, pf
- 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 1.5" exterior bearing and 3" interior bearing width.  
 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 Canadian Sheet Steel Building Institute's Standard for Composite Steel Deck (CSSBI 12M-06), September 2006 and Criteria for the Design of Composite Slabs (CSSBI S3-2002), September 2003. The loads in these tables are based on a Simple Span Design Analysis.

**145 PCF CONCRETE**