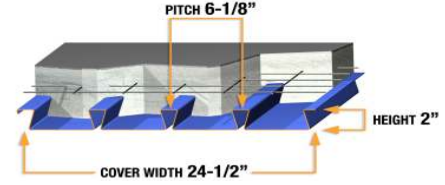


**VERSA-DEK® S FLOOR (LSD)**

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	2.22	0.409	0.289	0.268	968	1115	1238	1832	1975	2105
20	2.69	0.497	0.363	0.337	1378	1580	1750	2600	2797	2976
18	3.56	0.661	0.485	0.462	2296	2615	2884	4317	4628	4908
16	4.48	0.836	0.617	0.598	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)	378	392	400	400	408	405	500	500	438	416	500	500	469	423	500	500
		L (Deflection)	378	392	400	400	400	400	400	400	400	400	400	400	400	400	400	400
		L (Deflection)	378	392	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)	325	247	408	449	358	376	424	485	385	404	437	500	412	432	448	500
		L (Deflection)	325	247	400	400	358	376	400	400	385	400	400	400	400	400	400	400
		L (Deflection)	325	247	400	400	358	376	400	400	385	400	400	400	400	400	400	400
10' - 0"	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	D+L (Deflection)	249	270	275	404	281	304	279	425	314	340	378	439	349	378	419	451
		L (Deflection)	249	270	275	400	281	304	279	400	314	340	378	400	349	378	400	400
		L (Deflection)	249	270	275	341	281	304	279	400	314	340	378	400	349	378	400	400
11' - 0"	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	D+L (Deflection)	193	210	236	288	219	238	266	290	245	266	298	325	273	297	332	361
		L (Deflection)	193	210	236	288	219	238	266	290	245	266	298	325	273	297	332	361
		L (Deflection)	193	209	233	256	219	238	266	290	245	266	298	325	273	297	332	361
12' - 0"	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	D+L (Deflection)	151	165	186	204	171	187	211	231	193	211	237	259	216	235	265	289
		L (Deflection)	151	165	186	204	171	187	211	231	193	211	237	259	216	235	265	289
		L (Deflection)	150	161	180	197	171	187	211	231	193	211	237	259	216	235	265	289
13' - 0"	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	D+L (Deflection)	118	130	148	163	134	148	168	185	152	167	189	208	171	188	212	233
		L (Deflection)	118	130	148	163	134	148	168	185	152	167	189	208	171	188	212	233
		L (Deflection)	118	127	141	155	134	148	166	183	152	167	189	208	171	188	212	233
14' - 0"	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	D+L (Deflection)	92	102	117	130	105	117	134	148	120	133	152	168	135	150	171	188
		L (Deflection)	92	102	117	130	105	117	134	148	120	133	152	168	135	150	171	188
		L (Deflection)	92	101	113	124	105	117	133	146	120	133	152	168	135	150	171	188
15' - 0"	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	D+L (Deflection)	70	79	92	103	82	92	106	119	94	105	121	135	126	119	137	152
		L (Deflection)	69	77	90	103	82	92	106	119	94	105	121	135	126	119	137	152
		L (Deflection)	69	77	90	101	82	92	106	119	94	105	121	135	123	119	137	152
16' - 0"	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	D+L (Deflection)	69	61	72	82	79	71	84	94	90	82	96	108	102	94	110	123
		L (Deflection)	48	55	66	76	62	70	83	94	78	82	96	108	96	94	110	123
		L (Deflection)	48	55	66	76	62	70	83	94	78	82	96	108	96	94	110	123
17' - 0"	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	D+L (Deflection)	55	45	55	64	63	54	65	74	73	63	76	86	83	73	87	99
		L (Deflection)	32	38	47	55	44	50	61	71	57	63	76	86	71	73	87	99
		L (Deflection)	32	38	47	55	44	50	61	71	57	63	76	86	71	73	87	99
18' - 0"	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	D+L (Deflection)	42	33	41	48	50	57	49	58	58	66	58	67	66	75	68	78
		L (Deflection)	20	24	32	39	29	34	43	51	39	46	56	65	51	58	68	78
		L (Deflection)	20	24	32	39	29	34	43	51	39	46	56	65	51	58	68	78
19' - 0"	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	D+L (Deflection)	32	38	29	36	39	45	36	43	45	52	44	52	52	60	52	61
		L (Deflection)	10	14	20	26	17	22	29	36	26	31	39	47	35	41	51	61
		L (Deflection)	10	14	20	26	17	22	29	36	26	31	39	47	35	41	51	61
20' - 0"	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	D+L (Deflection)	24	28	19	25	29	34	25	31	35	41	31	38	39	48	38	46
		L (Deflection)	2	5	10	15	8	11	18	23	14	19	26	33	22	27	36	44
		L (Deflection)	2	5	10	15	8	11	18	23	14	19	26	33	22	27	36	44

**MAXIMUM UNSHORED CONSTRUCTION CLEAR SPANS**

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

8' - 0"	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	378	← Max. superimposed LSD factored dead + live load (psf) (governed by strength limitation)
	D+L (Deflection)	378	← Max. superimposed LSD unfactored dead + live load (psf) (governed by deflection limitation of L/240)
	L (Deflection)	378	← Max. superimposed LSD unfactored live load (psf) (governed by deflection limitation of L/360)
			← Vertical load span (center to center spacing)

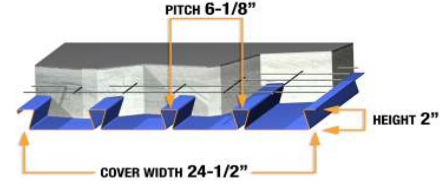
- Wd Weight of deck (uncoated), psf
- I<sub>b</sub> Moment of inertia for deflection per foot of deck width (in<sup>4</sup>/ft)
- Sp Section modulus for positive bending per foot of deck width, (in<sup>3</sup>/ft)
- Sn Section modulus for negative bending per foot of deck width, (in<sup>3</sup>/ft)
- 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, psf
- Rbi Allowable interior web crippling value per foot of deck, psf
- 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 2" exterior bearing and 4" 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® S 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	2.22	0.409	0.289	0.268	968	1115	1238	1832	1975	2105
20	2.69	0.497	0.363	0.337	1378	1580	1750	2600	2797	2976
18	3.56	0.661	0.485	0.462	2296	2615	2884	4317	4628	4908
16	4.48	0.836	0.617	0.598	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)	499	428	500	500	500	429	500	500	500	427	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)	438	461	455	500	465	489	460	500	492	500	461	500	500	500	460	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
10' - 0"	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	D+L (Deflection)	386	410	446	460	414	435	474	466	437	460	500	500	461	485	500	500
		L (Deflection)	386	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
		L (Deflection)	386	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
11' - 0"	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	D+L (Deflection)	303	329	367	400	334	362	405	440	366	397	444	483	400	434	476	500
		L (Deflection)	303	329	367	400	334	362	400	400	366	397	400	400	400	400	400	400
		L (Deflection)	303	329	367	400	334	362	400	400	366	397	400	400	400	400	400	400
12' - 0"	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	D+L (Deflection)	240	262	294	321	265	289	324	354	292	318	356	389	319	347	390	425
		L (Deflection)	240	262	294	321	265	289	324	354	292	318	356	389	319	347	390	400
		L (Deflection)	240	262	294	321	265	289	324	354	292	318	356	389	319	347	390	400
13' - 0"	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	D+L (Deflection)	191	209	236	259	212	232	262	287	233	256	288	316	256	280	316	346
		L (Deflection)	191	209	236	259	212	232	262	287	233	256	288	316	256	280	316	346
		L (Deflection)	191	209	236	259	212	232	262	287	233	256	288	316	256	280	316	346
14' - 0"	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	D+L (Deflection)	152	168	191	210	169	186	212	234	198	206	234	258	210	227	258	284
		L (Deflection)	152	168	191	210	169	186	212	234	198	206	234	258	210	227	258	284
		L (Deflection)	152	168	191	210	169	186	212	234	198	206	234	258	210	227	258	284
15' - 0"	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	D+L (Deflection)	140	134	154	171	150	150	172	191	160	167	191	211	170	184	211	233
		L (Deflection)	140	134	154	171	150	150	172	191	160	167	191	211	170	184	211	233
		L (Deflection)	140	134	154	171	150	150	172	191	160	167	191	211	170	184	211	233
16' - 0"	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	D+L (Deflection)	113	107	124	139	121	120	139	155	129	134	155	173	138	143	157	191
		L (Deflection)	113	107	124	139	121	120	139	155	129	134	155	173	138	143	157	191
		L (Deflection)	113	107	124	139	121	120	139	155	129	134	155	173	138	143	157	191
17' - 0"	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	D+L (Deflection)	91	104	99	112	97	116	112	126	104	129	126	141	111	143	140	157
		L (Deflection)	87	97	99	112	97	116	112	126	104	129	126	141	111	143	140	157
		L (Deflection)	87	97	99	112	97	116	112	126	104	129	126	141	111	143	140	157
18' - 0"	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	D+L (Deflection)	72	85	78	90	77	96	89	102	82	107	101	115	88	118	113	128
		L (Deflection)	64	73	78	90	77	88	89	102	82	106	101	115	88	118	113	128
		L (Deflection)	64	73	78	90	77	88	89	102	82	106	101	115	88	118	113	128
19' - 0"	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	D+L (Deflection)	56	69	61	71	60	78	70	81	64	88	80	92	69	98	91	104
		L (Deflection)	46	53	61	71	58	66	70	81	64	80	80	92	69	96	91	104
		L (Deflection)	46	53	61	71	58	66	70	81	64	80	80	92	69	96	91	104
20' - 0"	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	D+L (Deflection)	42	55	46	55	46	63	75	64	49	71	85	73	52	80	95	83
		L (Deflection)	31	37	46	55	41	48	59	64	49	60	72	73	52	73	87	83
		L (Deflection)	31	37	46	55	41	48	59	64	49	60	72	73	52	73	87	83

**MAXIMUM UNSHORED CONSTRUCTION CLEAR SPANS**

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

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)

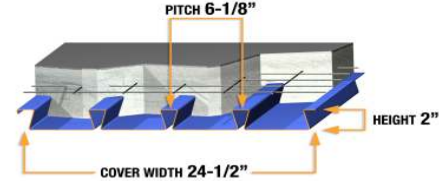
- Wd** Weight of deck (uncoated), psf
- I<sub>b</sub>** Moment of inertia for deflection per foot of deck width (in<sup>4</sup>/ft)
- Sp** Section modulus for positive bending per foot of deck width, (in<sup>3</sup>/ft)
- Sn** Section modulus for negative bending per foot of deck width, (in<sup>3</sup>/ft)
- 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 2" exterior bearing and 4" 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® S 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	2.22	0.409	0.289	0.268	968	1115	1238	1832	1975	2105
20	2.69	0.497	0.363	0.337	1378	1580	1750	2600	2797	2976
18	3.56	0.661	0.485	0.462	2296	2615	2884	4317	4628	4908
16	4.48	0.836	0.617	0.598	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)	500	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)	500	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
10' - 0"	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	D+L (Deflection)	485	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
11' - 0"	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	D+L (Deflection)	435	459	500	500	457	481	500	500	479	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
12' - 0"	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	D+L (Deflection)	348	378	424	463	377	411	461	500	408	444	498	500	439	477	500	500
		L (Deflection)	348	378	400	400	377	400	400	400	400	400	400	400	400	400	400	400
		L (Deflection)	348	378	400	400	377	400	400	400	400	400	400	400	400	400	400	400
13' - 0"	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	D+L (Deflection)	280	306	345	378	304	333	375	411	305	360	406	445	320	389	438	480
		L (Deflection)	280	306	345	378	304	333	375	400	305	360	400	400	320	389	400	400
		L (Deflection)	280	306	345	378	304	333	375	400	305	360	400	400	320	389	400	400
14' - 0"	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	D+L (Deflection)	222	249	282	310	235	271	307	338	247	294	333	367	260	318	360	396
		L (Deflection)	222	249	282	310	235	271	307	338	247	294	333	367	260	318	360	396
		L (Deflection)	222	249	282	310	235	271	307	338	247	294	333	367	260	318	360	396
15' - 0"	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	D+L (Deflection)	180	202	231	255	190	221	252	279	200	262	275	303	210	276	298	329
		L (Deflection)	180	202	231	255	190	221	252	279	200	262	275	303	210	276	298	329
		L (Deflection)	180	202	231	255	190	221	252	279	200	262	275	303	210	276	298	329
16' - 0"	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	D+L (Deflection)	146	188	189	211	154	205	208	231	162	217	227	252	170	228	246	273
		L (Deflection)	146	188	189	211	154	205	208	231	162	217	227	252	170	228	246	273
		L (Deflection)	146	188	189	211	154	205	208	231	162	217	227	252	170	228	246	273
17' - 0"	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	D+L (Deflection)	117	157	155	174	124	170	171	191	130	179	187	209	137	188	204	227
		L (Deflection)	117	157	155	174	124	170	171	191	130	179	187	209	137	188	204	227
		L (Deflection)	117	157	155	174	124	170	171	191	130	179	187	209	137	188	204	227
18' - 0"	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	D+L (Deflection)	93	131	126	143	99	139	139	157	104	147	153	173	109	155	196	189
		L (Deflection)	93	131	126	143	99	139	139	157	104	147	153	173	109	155	196	189
		L (Deflection)	93	131	126	143	99	139	139	157	104	147	153	173	109	155	196	189
19' - 0"	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	D+L (Deflection)	73	108	126	116	77	114	139	129	81	120	152	143	85	126	165	156
		L (Deflection)	73	108	126	116	77	114	139	129	81	120	152	143	85	126	165	156
		L (Deflection)	73	108	126	116	77	114	139	129	81	120	152	143	85	126	165	156
20' - 0"	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	D+L (Deflection)	56	87	105	94	59	92	116	105	91	97	128	117	100	102	140	129
		L (Deflection)	56	87	103	94	59	92	116	105	91	97	128	117	100	102	140	129
		L (Deflection)	56	87	103	94	59	92	116	105	91	97	128	117	100	102	140	129

**MAXIMUM UNSHORED CONSTRUCTION CLEAR SPANS**

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

8' - 0"	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	500	← 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)
- 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
- 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, psf
- Rbi Allowable interior web crippling value per foot of deck, psf
- 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 2" exterior bearing and 4" 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.

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