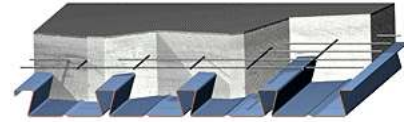


SECTION PROPERTIES

fy=40 ksi

GAGE	Wd	I <sub>b</sub>	Sp	Sn	Rbe			Rbi		
					2"	3"	4"	4"	5"	6"
22	2.25	0.417	0.304	0.301	976	1124	1248	1848	1993	2124
20	2.72	0.505	0.386	0.371	1390	1593	1765	2623	2822	3002
18	3.60	0.667	0.510	0.496	2315	2637	2909	4355	4668	4952
16	4.53	0.838	0.640	0.624	3530	3999	4395	6624	7079	7490



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

Span	h (Wc)	Load Combinations	4" (43.8)				4.25" (46.82)				4.5" (49.84)				4.75" (52.86)				
			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)	285	410	465	500	289	427	500	500	436	441	500	500	466	453	500	500	
		L (Deflection)	285	400	400	400	289	400	400	400	400	400	400	400	400	400	400	400	400
		L (Deflection)	285	400	400	400	289	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)	323	266	413	446	356	270	440	481	383	272	457	500	410	430	471	500	
		L (Deflection)	323	266	400	400	356	270	400	400	383	272	400	400	400	400	400	400	400
		L (Deflection)	323	266	400	400	356	270	400	400	383	272	400	400	400	400	400	400	400
10' - 0"	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	D+L (Deflection)	248	268	290	401	279	302	297	433	313	338	376	454	348	376	417	468	
		L (Deflection)	248	268	290	400	279	302	297	400	313	338	376	400	348	376	400	400	
		L (Deflection)	248	268	290	338	279	302	297	397	313	338	376	400	348	376	400	400	
11' - 0"	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	D+L (Deflection)	192	209	234	298	217	236	264	288	244	265	296	323	272	296	330	359	
		L (Deflection)	192	209	234	298	217	236	264	288	244	265	296	323	272	296	330	359	
		L (Deflection)	192	207	231	254	217	236	264	288	244	265	296	323	272	296	330	359	
12' - 0"	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	D+L (Deflection)	150	164	185	203	171	186	210	229	192	210	236	258	215	234	263	288	
		L (Deflection)	150	164	185	203	171	186	210	229	192	210	236	258	215	234	263	288	
		L (Deflection)	148	159	178	195	171	186	210	229	192	210	236	258	215	234	263	288	
13' - 0"	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	D+L (Deflection)	117	129	147	162	134	147	167	184	152	166	188	207	171	187	211	232	
		L (Deflection)	117	129	147	162	134	147	167	184	152	166	188	207	171	187	211	232	
		L (Deflection)	117	125	140	154	134	147	165	181	152	166	188	207	171	187	211	232	
14' - 0"	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	D+L (Deflection)	91	101	116	129	105	116	133	147	120	132	151	167	135	149	170	187	
		L (Deflection)	91	101	116	129	105	116	133	147	120	132	151	167	135	149	170	187	
		L (Deflection)	91	100	112	123	105	116	132	145	120	132	151	167	135	149	170	187	
15' - 0"	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	D+L (Deflection)	70	79	92	103	82	91	106	118	94	105	121	134	107	119	137	152	
		L (Deflection)	68	76	89	102	82	91	106	118	94	105	121	134	107	119	137	152	
		L (Deflection)	68	76	89	100	82	91	106	118	94	105	121	134	107	119	137	152	
16' - 0"	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	D+L (Deflection)	53	61	72	81	62	71	83	94	90	82	96	108	102	94	109	123	
		L (Deflection)	48	54	65	75	62	69	82	94	78	82	96	108	96	94	109	123	
		L (Deflection)	48	54	65	75	62	69	82	94	78	82	96	108	96	94	109	123	
17' - 0"	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	D+L (Deflection)	54	45	55	63	63	54	65	74	73	63	76	86	83	73	87	98	
		L (Deflection)	32	38	46	55	43	50	60	70	56	63	76	86	70	73	87	98	
		L (Deflection)	32	38	46	55	43	50	60	70	56	63	76	86	70	73	87	98	
18' - 0"	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	D+L (Deflection)	42	33	41	48	50	40	49	57	58	48	58	67	67	75	68	78	
		L (Deflection)	20	24	32	38	29	34	43	51	39	45	55	65	51	58	68	78	
		L (Deflection)	20	24	32	38	29	34	43	51	39	45	55	65	51	58	68	78	
19' - 0"	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	D+L (Deflection)	32	22	29	36	39	45	36	43	45	52	44	52	52	60	52	61	
		L (Deflection)	10	14	20	25	17	21	29	35	25	31	39	47	35	41	51	60	
		L (Deflection)	10	14	20	25	17	21	29	35	25	31	39	47	35	41	51	60	
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	40	48	38	46	
		L (Deflection)	2	5	10	15	8	11	17	23	14	19	26	33	22	27	35	43	
		L (Deflection)	2	5	10	15	8	11	17	23	14	19	26	33	22	27	35	43	

MAXIMUM UNSHORED CONSTRUCTION CLEAR SPANS

	8' - 2"	9' - 6"	10' - 4"	11' - 1"	8' - 0"	9' - 3"	10' - 2"	10' - 10"	7' - 10"	9' - 1"	9' - 11"	10' - 8"	7' - 8"	8' - 11"	9' - 9"	10' - 6"	
1span	8' - 2"	9' - 6"	10' - 4"	11' - 1"	8' - 0"	9' - 3"	10' - 2"	10' - 10"	7' - 10"	9' - 1"	9' - 11"	10' - 8"	7' - 8"	8' - 11"	9' - 9"	10' - 6"	
2span	8' - 3"	9' - 6"	11' - 5"	12' - 8"	8' - 1"	9' - 3"	11' - 2"	12' - 5"	7' - 10"	9' - 1"	10' - 11"	12' - 2"	7' - 8"	8' - 11"	10' - 8"	11' - 11"	
3span	8' - 7"	9' - 10"	11' - 9"	13' - 1"	8' - 4"	9' - 7"	11' - 6"	12' - 10"	8' - 2"	9' - 5"	11' - 3"	12' - 7"	8' - 0"	9' - 2"	11' - 1"	12' - 4"	
cantilever	3' - 0"	3' - 7"	4' - 5"	5' - 2"	3' - 0"	3' - 6"	4' - 4"	5' - 0"	2' - 11"	3' - 5"	4' - 3"	4' - 11"	2' - 11"	3' - 5"	4' - 2"	4' - 10"	
cy/100sf		1.12				1.20				1.27				1.35			

8' - 0"	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	285
	D+L (Deflection)	285
	L (Deflection)	285

- ← 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)
- 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, pif
- Rbi Allowable interior web crippling value per foot of deck, pif
- 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.

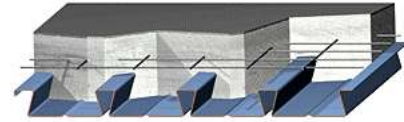
The section property table is based on 2001 AISI's Cold-Formed Steel Design Manual, 2004 Supplement. The live loads and unshored construction clear spans are based on the Canadian Sheet Steel Building Institute's Standard for Composite Steel Deck (CSSBI 12M-06), September 2006 and Criteria for the Design of Composite Slabs (CSSBI S3-2002), September 2003. The loads in these tables are based on a Simple Span Design Analysis.

145 PCF CONCRETE

SECTION PROPERTIES

fy=40 ksi

GAGE	Wd	I <sub>b</sub>	Sp	Sn	Rbe			Rbi		
					2"	3"	4"	4"	5"	6"
22	2.25	0.417	0.304	0.301	976	1124	1248	1848	1993	2124
20	2.72	0.505	0.386	0.371	1390	1593	1765	2623	2822	3002
18	3.60	0.667	0.510	0.496	2315	2637	2909	4355	4668	4952
16	4.53	0.838	0.640	0.624	3530	3999	4395	6624	7079	7490



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

Span	h (Wc)	Load Combinations	5" (55.89)				5.25" (58.91)				5.5" (61.93)				5.75" (64.95)			
			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)	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	496	462	500	500	500	467	500	500	500	470	500	500	500	470	500	500
		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"	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	436	458	482	500	463	486	490	500	490	500	495	500	500	500	498	500
		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"	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	384	408	444	480	412	433	472	489	436	458	499	495	459	483	500	500
		D+L (Deflection)	384	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"	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	302	328	366	398	333	361	403	438	365	396	442	481	399	433	474	500
		D+L (Deflection)	302	328	366	398	333	361	400	400	365	396	400	400	399	400	400	400
		L (Deflection)	302	328	366	398	333	361	400	400	365	396	400	400	399	400	400	400
12' - 0"	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	239	261	292	319	265	288	323	353	291	317	355	388	319	347	389	424
		D+L (Deflection)	239	261	292	319	265	288	323	353	291	317	355	388	319	347	389	400
		L (Deflection)	239	261	292	319	265	288	323	353	291	317	355	388	319	347	389	400
13' - 0"	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	190	209	235	258	211	231	261	286	233	255	288	315	256	280	315	345
		D+L (Deflection)	190	209	235	258	211	231	261	286	233	255	288	315	256	280	315	345
		L (Deflection)	190	209	235	258	211	231	261	286	233	255	288	315	256	280	315	345
14' - 0"	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	152	167	190	210	169	186	211	233	187	206	234	257	206	227	257	283
		D+L (Deflection)	152	167	190	210	169	186	211	233	187	206	234	257	206	227	257	283
		L (Deflection)	152	167	190	210	169	186	211	233	187	206	234	257	206	227	257	283
15' - 0"	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	120	134	154	170	151	150	172	190	161	166	190	211	172	184	210	232
		D+L (Deflection)	120	134	154	170	151	150	172	190	161	166	190	211	172	184	210	232
		L (Deflection)	120	134	154	170	151	150	172	190	161	166	190	211	172	184	210	232
16' - 0"	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	114	107	124	138	122	120	139	155	131	134	155	173	139	149	172	191
		D+L (Deflection)	114	107	124	138	122	120	139	155	131	134	155	173	139	149	172	191
		L (Deflection)	114	107	124	138	122	120	139	155	131	134	155	173	139	149	172	191
17' - 0"	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	92	84	99	112	98	95	112	126	105	129	126	141	112	143	140	157
		D+L (Deflection)	87	84	99	112	98	95	112	126	105	129	126	141	112	143	140	157
		L (Deflection)	87	84	99	112	98	95	112	126	105	129	126	141	112	143	140	157
18' - 0"	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	73	85	78	89	78	96	89	102	84	107	101	115	89	118	113	128
		D+L (Deflection)	64	72	78	89	78	88	89	102	84	105	101	115	89	118	113	128
		L (Deflection)	64	72	78	89	78	88	89	102	84	105	101	115	89	118	113	128
19' - 0"	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	57	69	61	71	61	78	70	81	66	88	80	92	70	98	91	104
		D+L (Deflection)	46	52	61	71	58	65	70	81	66	80	80	92	70	96	91	104
		L (Deflection)	46	52	61	71	58	65	70	81	66	80	80	92	70	96	91	104
20' - 0"	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	43	55	46	55	47	63	54	64	50	71	62	73	54	80	95	83
		D+L (Deflection)	31	37	46	55	41	47	54	64	50	59	62	73	54	72	87	83
		L (Deflection)	31	37	46	55	41	47	54	64	50	59	62	73	54	72	87	83

MAXIMUM UNSHORED CONSTRUCTION CLEAR SPANS

	7' - 6"	8' - 9"	9' - 7"	10' - 4"	7' - 5"	8' - 7"	9' - 5"	10' - 2"	7' - 3"	8' - 5"	9' - 3"	10' - 0"	7' - 2"	8' - 3"	9' - 2"	9' - 10"
1span	7' - 6"	8' - 9"	9' - 7"	10' - 4"	7' - 5"	8' - 7"	9' - 5"	10' - 2"	7' - 3"	8' - 5"	9' - 3"	10' - 0"	7' - 2"	8' - 3"	9' - 2"	9' - 10"
2span	7' - 6"	8' - 8"	10' - 6"	11' - 9"	7' - 4"	8' - 6"	10' - 3"	11' - 6"	7' - 3"	8' - 4"	10' - 1"	11' - 4"	7' - 1"	8' - 2"	9' - 11"	11' - 2"
3span	7' - 9"	9' - 0"	10' - 10"	12' - 2"	7' - 7"	8' - 10"	10' - 7"	11' - 11"	7' - 6"	8' - 8"	10' - 5"	11' - 9"	7' - 4"	8' - 6"	10' - 3"	11' - 7"
cantilever	2' - 10"	3' - 4"	4' - 1"	4' - 9"	2' - 10"	3' - 3"	4' - 0"	4' - 9"	2' - 9"	3' - 3"	4' - 0"	4' - 8"	2' - 9"	3' - 3"	3' - 11"	4' - 7"
cy/100sf	1.43				1.50				1.58				1.66			

8' - 0"	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	496	← 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, 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

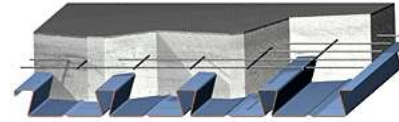
Construction spans shown based on 2" exterior bearing and 4" interior bearing width.  
 The section property table is based on 2001 AISI's Cold-Formed Steel Design Manual, 2004 Supplement. The live loads and unshored construction clear spans are based on the Canadian Sheet Steel Building Institute's 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

SECTION PROPERTIES

fy=40 ksi

GAGE	Wd	I <sub>b</sub>	Sp	Sn	Rbe			Rbi		
					2"	3"	4"	4"	5"	6"
22	2.25	0.417	0.304	0.301	976	1124	1248	1848	1993	2124
20	2.72	0.505	0.386	0.371	1390	1593	1765	2623	2822	3002
18	3.60	0.667	0.510	0.496	2315	2637	2909	4355	4668	4952
16	4.53	0.838	0.640	0.624	3530	3999	4395	6624	7079	7490



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

Span	h (Wc)	Load Combinations	6" (67.97)				6.25" (70.99)				6.5" (74.01)				6.75" (77.03)			
			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	466	500	500	500	459	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	497	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)	483	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)	434	457	498	500	456	479	500	500	477	500	500	500	498	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)	347	378	423	462	377	410	460	500	408	443	497	500	439	476	500	500
		L (Deflection)	347	378	400	400	377	400	400	400	400	400	400	400	400	400	400	400
		L (Deflection)	347	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	344	377	304	332	374	410	330	360	405	444	356	389	438	479
		L (Deflection)	280	306	344	377	304	332	374	400	330	360	400	400	356	389	400	400
		L (Deflection)	280	306	344	377	304	332	374	400	330	360	400	400	356	389	400	400
14' - 0"	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	D+L (Deflection)	224	248	281	309	237	271	307	337	250	294	333	366	262	318	360	396
		L (Deflection)	224	248	281	309	237	271	307	337	250	294	333	366	262	318	360	396
		L (Deflection)	224	248	281	309	237	271	307	337	250	294	333	366	262	318	360	396
15' - 0"	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	D+L (Deflection)	182	202	231	255	192	221	252	278	203	241	274	303	213	261	297	328
		L (Deflection)	182	202	231	255	192	221	252	278	203	241	274	303	213	261	297	328
		L (Deflection)	182	202	231	255	192	221	252	278	203	241	274	303	213	261	297	328
16' - 0"	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	D+L (Deflection)	148	164	189	210	156	205	208	230	164	219	226	251	173	230	246	273
		L (Deflection)	148	164	189	210	156	205	208	230	164	219	226	251	173	230	246	273
		L (Deflection)	148	164	189	210	156	205	208	230	164	219	226	251	173	230	246	273
17' - 0"	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	D+L (Deflection)	119	157	155	173	126	172	171	191	133	181	187	209	139	191	204	227
		L (Deflection)	119	157	155	173	126	172	171	191	133	181	187	209	139	191	204	227
		L (Deflection)	119	157	155	173	126	172	171	191	133	181	187	209	139	191	204	227
18' - 0"	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	D+L (Deflection)	95	131	126	142	101	142	139	157	106	149	153	173	111	157	168	189
		L (Deflection)	95	131	126	142	101	142	139	157	106	149	153	173	111	157	168	189
		L (Deflection)	95	131	126	142	101	142	139	157	106	149	153	173	111	157	168	189
19' - 0"	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	D+L (Deflection)	75	108	102	116	79	116	113	129	83	122	152	143	88	129	165	157
		L (Deflection)	75	108	102	116	79	116	113	129	83	122	152	143	88	129	165	157
		L (Deflection)	75	108	102	116	79	116	113	129	83	122	152	143	88	129	165	157
20' - 0"	α <sub>D</sub> D+α <sub>L</sub> L (Strength)	D+L (Deflection)	57	89	105	94	61	94	116	105	64	99	128	117	68	105	140	129
		L (Deflection)	57	87	103	94	61	94	116	105	64	99	128	117	68	105	140	129
		L (Deflection)	57	87	103	94	61	94	116	105	64	99	128	117	68	105	140	129

MAXIMUM UNSHORED CONSTRUCTION CLEAR SPANS

	7' - 0"	8' - 2"	9' - 0"	9' - 8"	6' - 11"	8' - 0"	8' - 11"	9' - 7"	6' - 10"	7' - 11"	8' - 9"	9' - 5"	6' - 9"	7' - 9"	8' - 8"	9' - 4"	
1span	7' - 0"	8' - 2"	9' - 0"	9' - 8"	6' - 11"	8' - 0"	8' - 11"	9' - 7"	6' - 10"	7' - 11"	8' - 9"	9' - 5"	6' - 9"	7' - 9"	8' - 8"	9' - 4"	
2span	6' - 11"	8' - 0"	9' - 9"	11' - 0"	6' - 10"	7' - 11"	9' - 7"	10' - 10"	6' - 8"	7' - 9"	9' - 5"	10' - 8"	6' - 7"	7' - 7"	9' - 3"	10' - 6"	
3span	7' - 2"	8' - 4"	10' - 1"	11' - 5"	7' - 1"	8' - 2"	9' - 11"	11' - 3"	6' - 11"	8' - 0"	9' - 9"	11' - 1"	6' - 10"	7' - 11"	9' - 7"	10' - 11"	
cantilever	2' - 9"	3' - 2"	3' - 10"	4' - 6"	2' - 8"	3' - 2"	3' - 10"	4' - 5"	2' - 8"	3' - 1"	3' - 9"	4' - 5"	2' - 8"	3' - 1"	3' - 9"	4' - 4"	
cy/100sf		1.74				1.81				1.89				1.97			

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, 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.

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