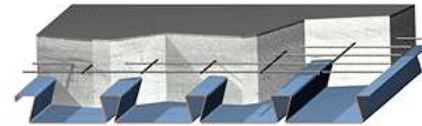


SECTION PROPERTIES

fy=40 ksi

GAGE	Wd	I _b	Sp	Sn	Rbe			Rbi		
					2"	3"	4"	4"	5"	6"
22	2.22	0.422	0.306	0.273	976	1124	1248	1848	1993	2124
20	2.70	0.511	0.390	0.346	1390	1593	1765	2623	2822	3002
18	3.56	0.674	0.514	0.474	2315	2637	2909	4355	4668	4952
16	4.49	0.848	0.646	0.614	3530	3999	4395	6624	7079	7490



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

Span	h (Wc)	Load Combinations	4" (34.74)				4.25" (37.14)				4.5" (39.53)				4.75" (41.93)			
			GAGE															
			22	20	18	16	22	20	18	16	22	20	18	16	22	20	18	16
8' - 0"	α _D D+α _L L (Strength)	D+L (Deflection)	331	427	460	496	344	461	497	500	356	495	500	500	365	500	500	500
		L (Deflection)	331	400	400	400	344	400	400	400	356	400	400	400	365	400	400	400
		L (Deflection)	331	400	400	400	344	400	400	400	356	400	400	400	365	400	400	400
9' - 0"	α _D D+α _L L (Strength)	D+L (Deflection)	334	308	409	441	361	321	442	476	388	332	475	500	415	341	500	500
		L (Deflection)	334	308	400	400	361	321	400	400	388	332	400	400	400	341	400	400
		L (Deflection)	283	306	343	379	334	321	400	400	388	332	400	400	400	341	400	400
10' - 0"	α _D D+α _L L (Strength)	D+L (Deflection)	298	210	328	397	322	214	344	428	346	363	357	460	370	388	369	492
		L (Deflection)	273	210	328	397	322	214	344	400	346	363	357	400	370	388	369	400
		L (Deflection)	206	210	250	276	243	214	294	324	284	307	343	378	330	355	369	400
11' - 0"	α _D D+α _L L (Strength)	D+L (Deflection)	239	257	235	334	268	288	318	351	300	322	355	365	333	350	380	379
		L (Deflection)	196	214	235	311	235	256	291	351	279	303	344	365	327	350	380	379
		L (Deflection)	155	167	188	207	183	197	221	244	214	230	258	284	248	267	299	329
12' - 0"	α _D D+α _L L (Strength)	D+L (Deflection)	192	207	229	248	216	232	257	278	242	260	287	310	269	289	319	345
		L (Deflection)	142	156	179	200	172	188	215	240	205	224	255	284	242	264	299	333
		L (Deflection)	119	129	145	160	141	152	170	188	165	177	199	219	191	206	230	253
13' - 0"	α _D D+α _L L (Strength)	D+L (Deflection)	155	167	186	202	175	189	210	227	196	212	235	254	219	236	262	283
		L (Deflection)	104	115	133	149	127	139	160	180	152	167	191	214	181	198	226	252
		L (Deflection)	94	101	114	126	111	120	134	148	129	140	156	172	150	162	181	199
14' - 0"	α _D D+α _L L (Strength)	D+L (Deflection)	125	136	152	166	142	154	172	187	160	174	193	210	179	194	216	234
		L (Deflection)	76	84	98	112	94	104	120	136	114	125	145	163	136	149	172	193
		L (Deflection)	75	81	91	101	89	96	107	118	104	112	125	138	120	129	145	159
15' - 0"	α _D D+α _L L (Strength)	D+L (Deflection)	102	111	125	137	116	126	142	155	131	143	160	174	147	160	179	195
		L (Deflection)	55	62	73	83	69	77	90	102	85	94	109	124	102	113	131	148
		L (Deflection)	55	62	73	82	69	77	87	96	84	91	102	112	98	105	118	130
16' - 0"	α _D D+α _L L (Strength)	D+L (Deflection)	82	91	103	113	94	104	117	128	107	117	132	144	121	132	149	162
		L (Deflection)	39	44	53	62	50	56	67	77	62	70	83	94	76	85	100	114
		L (Deflection)	39	44	53	62	50	56	67	77	62	70	83	92	76	85	97	107
17' - 0"	α _D D+α _L L (Strength)	D+L (Deflection)	66	74	84	93	80	85	96	106	87	96	109	120	94	109	123	135
		L (Deflection)	26	31	38	45	35	40	49	57	45	51	62	71	56	64	76	87
		L (Deflection)	26	31	38	45	35	40	49	57	45	51	62	71	56	64	76	87
18' - 0"	α _D D+α _L L (Strength)	D+L (Deflection)	59	59	69	76	65	69	79	87	71	79	90	100	77	90	102	113
		L (Deflection)	16	20	26	32	23	28	35	42	31	37	45	53	41	47	57	66
		L (Deflection)	16	20	26	32	23	28	35	42	31	37	45	53	41	47	57	66
19' - 0"	α _D D+α _L L (Strength)	D+L (Deflection)	48	47	55	62	53	55	64	72	58	64	74	82	63	86	85	94
		L (Deflection)	8	11	16	21	14	18	24	29	20	25	32	39	28	33	41	49
		L (Deflection)	8	11	16	21	14	18	24	29	20	25	32	39	28	33	41	49
20' - 0"	α _D D+α _L L (Strength)	D+L (Deflection)	38	37	44	50	43	57	52	58	47	66	60	68	51	72	70	78
		L (Deflection)	2	4	9	12	6	9	14	19	12	15	21	27	18	22	29	35
		L (Deflection)	2	4	9	12	6	9	14	19	12	15	21	27	18	22	29	35

MAXIMUM UNSHORED CONSTRUCTION CLEAR SPANS

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

8' - 0"	α _D D+α _L L (Strength)	331
	D+L (Deflection)	331
	L (Deflection)	331

- ← 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_b** Moment of inertia for deflection per foot of deck width (in⁴/ft)
- Sp** Section modulus for positive bending per foot of deck width, (in³/ft)
- Sn** Section modulus for negative bending per foot of deck width, (in³/ft)
- fc** 3000 psi

- 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

α_D, α_L Load factors for dead and live loads, respectively, to be applied by Engineer in accordance with Building Codes

Construction spans shown based on 2" exterior bearing and 4" interior bearing width.

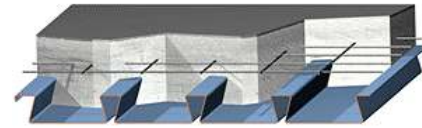
The section property table is based on 2001 AISI's Cold-Formed Steel Design Manual, 2004 Supplement. The live loads and unshored construction clear spans are based on the Canadian Sheet Steel Building Institute's Standard for Composite Steel Deck (CSSBI 12M-06), September 2006 and Criteria for the Design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

115 PCF CONCRETE

SECTION PROPERTIES

fy=40 ksi

GAGE	Wd	I _b	Sp	Sn	Rbe			Rbi		
					2"	3"	4"	4"	5"	6"
22	2.22	0.422	0.306	0.273	976	1124	1248	1848	1993	2124
20	2.70	0.511	0.390	0.346	1390	1593	1765	2623	2822	3002
18	3.56	0.674	0.514	0.474	2315	2637	2909	4355	4668	4952
16	4.49	0.848	0.646	0.614	3530	3999	4395	6624	7079	7490



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

Span	h (Wc)	Load Combinations	5" (44.32)				5.25" (46.72)				5.5" (49.11)				5.75" (51.51)			
			GAGE															
			22	20	18	16	22	20	18	16	22	20	18	16	22	20	18	16
8' - 0"	α _D D+α _L L (Strength)	D+L (Deflection)	372	500	500	500	377	500	500	500	500	500	500	500	500	500	500	500
		L (Deflection)	372	400	400	400	377	400	400	400	400	400	400	400	400	400	400	400
		L (Deflection)	372	400	400	400	377	400	400	400	400	400	400	400	400	400	400	400
9' - 0"	α _D D+α _L L (Strength)	D+L (Deflection)	442	348	500	500	469	352	500	500	497	355	500	500	500	354	500	500
		L (Deflection)	400	348	400	400	400	352	400	400	400	355	400	400	400	354	400	400
		L (Deflection)	400	348	400	400	400	352	400	400	400	355	400	400	400	354	400	400
10' - 0"	α _D D+α _L L (Strength)	D+L (Deflection)	395	414	379	500	419	439	386	500	443	465	392	500	467	490	500	500
		L (Deflection)	395	400	379	400	400	400	386	400	400	400	392	400	400	400	400	400
		L (Deflection)	379	400	379	400	400	400	386	400	400	400	392	400	400	400	400	400
11' - 0"	α _D D+α _L L (Strength)	D+L (Deflection)	355	373	405	390	377	396	430	466	399	419	455	493	421	442	480	500
		L (Deflection)	355	373	400	390	377	396	400	400	399	400	400	400	400	400	400	400
		L (Deflection)	285	307	343	377	326	351	392	400	370	398	400	400	400	400	400	400
12' - 0"	α _D D+α _L L (Strength)	D+L (Deflection)	297	320	353	381	328	352	389	419	359	380	414	449	382	401	436	473
		L (Deflection)	283	307	349	381	327	352	389	400	359	380	400	400	382	400	400	400
		L (Deflection)	219	236	264	291	251	270	302	332	285	307	343	376	322	346	387	400
13' - 0"	α _D D+α _L L (Strength)	D+L (Deflection)	243	262	290	313	268	289	320	345	294	317	351	379	321	346	383	414
		L (Deflection)	212	232	264	294	247	269	306	340	285	310	351	379	321	346	383	400
		L (Deflection)	173	186	208	229	197	212	237	261	224	241	270	296	253	272	304	334
14' - 0"	α _D D+α _L L (Strength)	D+L (Deflection)	199	216	240	260	220	238	265	287	242	262	291	315	265	287	319	345
		L (Deflection)	161	176	202	226	188	206	235	262	218	238	271	302	250	273	310	345
		L (Deflection)	138	149	166	183	158	170	190	209	180	193	216	237	203	218	244	268
15' - 0"	α _D D+α _L L (Strength)	D+L (Deflection)	164	178	199	216	182	198	221	240	201	218	243	264	220	239	267	289
		L (Deflection)	122	134	155	174	144	158	181	204	168	184	210	235	194	212	242	270
		L (Deflection)	112	121	135	149	128	138	155	170	146	157	175	193	165	177	198	218
16' - 0"	α _D D+α _L L (Strength)	D+L (Deflection)	123	148	166	181	132	164	184	201	141	182	204	222	151	200	224	244
		L (Deflection)	92	102	119	135	110	121	141	159	129	142	164	185	150	165	190	213
		L (Deflection)	92	100	112	123	106	114	127	140	120	129	145	159	136	146	163	179
17' - 0"	α _D D+α _L L (Strength)	D+L (Deflection)	102	123	138	152	109	137	154	169	117	152	171	187	125	167	188	206
		L (Deflection)	69	78	92	104	83	93	109	124	99	110	128	145	116	128	149	168
		L (Deflection)	69	78	92	102	83	93	106	117	99	108	121	132	113	122	136	149
18' - 0"	α _D D+α _L L (Strength)	D+L (Deflection)	84	101	115	127	90	114	129	142	96	129	144	158	103	137	159	174
		L (Deflection)	51	58	70	80	63	71	84	96	75	84	100	114	89	100	117	133
		L (Deflection)	51	58	70	80	63	71	84	96	75	84	100	112	89	100	115	126
19' - 0"	α _D D+α _L L (Strength)	D+L (Deflection)	68	94	96	106	74	101	108	119	79	108	120	133	84	115	134	147
		L (Deflection)	36	42	52	61	46	53	64	74	56	64	77	89	68	77	91	104
		L (Deflection)	36	42	52	61	46	53	64	74	56	64	77	89	68	77	91	104
20' - 0"	α _D D+α _L L (Strength)	D+L (Deflection)	55	78	79	88	60	84	90	100	64	90	101	112	69	96	112	124
		L (Deflection)	25	30	38	45	32	38	47	56	41	48	58	68	51	58	70	82
		L (Deflection)	25	30	38	45	32	38	47	56	41	48	58	68	51	58	70	82

MAXIMUM UNSHORED CONSTRUCTION CLEAR SPANS

	8' - 3"	9' - 6"	10' - 4"	11' - 1"	8' - 1"	9' - 4"	10' - 2"	10' - 11"	7' - 11"	9' - 2"	10' - 0"	10' - 9"	7' - 10"	9' - 1"	9' - 10"	10' - 7"
1span	8' - 3"	9' - 6"	10' - 4"	11' - 1"	8' - 1"	9' - 4"	10' - 2"	10' - 11"	7' - 11"	9' - 2"	10' - 0"	10' - 9"	7' - 10"	9' - 1"	9' - 10"	10' - 7"
2span	7' - 11"	9' - 2"	11' - 1"	12' - 7"	7' - 9"	9' - 0"	10' - 11"	12' - 4"	7' - 7"	8' - 10"	10' - 9"	12' - 2"	7' - 6"	8' - 8"	10' - 7"	12' - 0"
3span	8' - 2"	9' - 6"	11' - 6"	13' - 0"	8' - 0"	9' - 4"	11' - 4"	12' - 9"	7' - 10"	9' - 2"	11' - 1"	12' - 7"	7' - 9"	9' - 0"	10' - 11"	12' - 5"
cantilever	2' - 10"	3' - 4"	4' - 3"	5' - 1"	2' - 9"	3' - 4"	4' - 2"	5' - 0"	2' - 9"	3' - 3"	4' - 1"	4' - 11"	2' - 9"	3' - 3"	4' - 1"	4' - 10"
cy/100sf	1.43				1.50				1.58				1.66			

8' - 0"	α _D D+α _L L (Strength)	372	← Max. superimposed LSD factored dead + live load (psf) (governed by strength limitation)
	D+L (Deflection)	372	← Max. superimposed LSD unfactored dead + live load (psf) (governed by deflection limitation of L/240)
	L (Deflection)	372	← 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_b** Moment of inertia for deflection per foot of deck width (in⁴/ft)
- Sp** Section modulus for positive bending per foot of deck width, (in³/ft)
- Sn** Section modulus for negative bending per foot of deck width, (in³/ft)
- fc** 3000 psi
- α_D, α_L 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

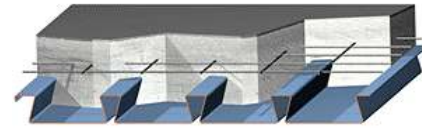
Construction spans shown based on 2" exterior bearing and 4" interior bearing width.
 The section property table is based on 2001 AISI's Cold-Formed Steel Design Manual, 2004 Supplement. The live loads and unshored construction clear spans are based on the Canadian Sheet Steel Building Institute's Standard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

115 PCF CONCRETE

SECTION PROPERTIES

fy=40 ksi

GAGE	Wd	I _b	Sp	Sn	Rbe			Rbi		
					2"	3"	4"	4"	5"	6"
22	2.22	0.422	0.306	0.273	976	1124	1248	1848	1993	2124
20	2.70	0.511	0.390	0.346	1390	1593	1765	2623	2822	3002
18	3.56	0.674	0.514	0.474	2315	2637	2909	4355	4668	4952
16	4.49	0.848	0.646	0.614	3530	3999	4395	6624	7079	7490



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

Span	h (Wc)	Load Combinations	6" (53.91)				6.25" (56.3)				6.5" (58.7)				6.75" (61.09)			
			GAGE															
			22	20	18	16	22	20	18	16	22	20	18	16	22	20	18	16
8' - 0"	α _D D+α _L 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

MAXIMUM UNSHORED CONSTRUCTION CLEAR SPANS

	7' - 8"	8' - 11"	9' - 9"	10' - 5"	7' - 7"	8' - 9"	9' - 7"	10' - 4"	7' - 5"	8' - 8"	9' - 6"	10' - 2"	7' - 4"	8' - 6"	9' - 4"	10' - 1"
1span	7' - 8"	8' - 11"	9' - 9"	10' - 5"	7' - 7"	8' - 9"	9' - 7"	10' - 4"	7' - 5"	8' - 8"	9' - 6"	10' - 2"	7' - 4"	8' - 6"	9' - 4"	10' - 1"
2span	7' - 4"	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' - 2"	9' - 11"	11' - 4"
3span	7' - 7"	8' - 10"	10' - 9"	12' - 2"	7' - 6"	8' - 9"	10' - 7"	12' - 0"	7' - 4"	8' - 7"	10' - 5"	11' - 10"	7' - 3"	8' - 5"	10' - 3"	11' - 9"
cantilever	2' - 8"	3' - 2"	4' - 0"	4' - 9"	2' - 8"	3' - 2"	4' - 0"	4' - 9"	2' - 8"	3' - 2"	3' - 11"	4' - 8"	2' - 7"	3' - 1"	3' - 10"	4' - 7"
cy/100sf	1.74				1.81				1.89				1.97			

8' - 0"	α _D D+α _L 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_b** Moment of inertia for deflection per foot of deck width (in⁴/ft)
- Sp** Section modulus for positive bending per foot of deck width, (in³/ft)
- Sn** Section modulus for negative bending per foot of deck width, (in³/ft)
- f_c** 3000 psi
- α_D, α_L 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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