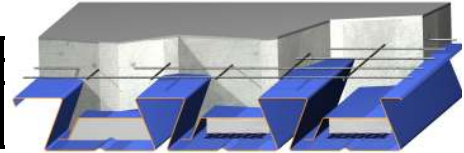


SECTION PROPERTIES fy=40 ksi

GAGE	Wd	I _p	S _p	S _n	Rbe			Rbi		
					2"	3"	4"	4"	5"	6"
20	3.07	1.803	0.747	0.803	927	1062	1177	1886	2029	2159
18	4.06	2.450	1.080	1.181	1565	1783	1966	3136	3362	3566
16	5.12	3.122	1.466	1.522	2409	2729	2999	4776	5103	5400



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

h (Wc)		5.5" (35.34)			5.75" (37.73)			6" (40.13)			6.25" (42.53)		
Span	Load Combinations	GAGE											
		20	18	16	20	18	16	20	18	16	20	18	16
13' - 0"	α _D D+α _L L (Strength)	172	261	329	174	280	349	175	292	370	176	302	391
	D+L (Deflection)	172	261	329	174	280	349	175	292	370	176	302	391
	L (Deflection)	172	213	243	174	239	270	175	268	301	176	299	336
14' - 0"	α _D D+α _L L (Strength)	128	208	278	128	223	295	126	229	313	199	235	330
	D+L (Deflection)	128	208	278	128	223	295	126	229	313	199	235	330
	L (Deflection)	128	171	195	128	191	216	126	214	241	199	235	269
15' - 0"	α _D D+α _L L (Strength)	140	166	234	149	175	248	158	179	265	167	207	276
	D+L (Deflection)	140	166	234	149	175	248	158	179	265	167	207	276
	L (Deflection)	120	139	158	135	155	176	152	174	196	167	195	219
16' - 0"	α _D D+α _L L (Strength)	118	147	192	126	156	202	133	165	195	141	175	227
	D+L (Deflection)	109	132	192	126	150	202	133	165	195	141	175	223
	L (Deflection)	99	114	131	111	128	145	125	144	162	140	161	180
17' - 0"	α _D D+α _L L (Strength)	101	125	163	107	133	174	113	140	184	120	148	194
	D+L (Deflection)	85	103	123	98	118	138	113	135	157	120	148	178
	L (Deflection)	82	95	109	93	107	121	104	120	135	117	134	150
18' - 0"	α _D D+α _L L (Strength)	86	106	141	91	113	150	96	120	159	102	126	168
	D+L (Deflection)	65	81	97	76	93	110	88	107	125	102	122	142
	L (Deflection)	65	80	92	76	90	102	88	101	114	98	113	127
19' - 0"	α _D D+α _L L (Strength)	73	91	122	78	97	130	82	102	137	87	108	145
	D+L (Deflection)	50	63	76	59	73	87	69	84	99	80	97	114
	L (Deflection)	50	63	76	59	73	87	69	84	97	80	96	108
20' - 0"	α _D D+α _L L (Strength)	63	78	106	67	83	113	71	88	119	75	93	126
	D+L (Deflection)	37	48	60	45	56	68	53	66	79	62	77	91
	L (Deflection)	37	48	60	45	56	68	53	66	79	62	77	91
21' - 0"	α _D D+α _L L (Strength)	54	67	92	57	71	98	61	75	104	64	80	110
	D+L (Deflection)	27	36	46	33	43	53	40	51	62	47	60	72
	L (Deflection)	27	36	46	33	43	53	40	51	62	47	60	72
22' - 0"	α _D D+α _L L (Strength)	46	57	81	49	61	86	52	65	91	55	68	96
	D+L (Deflection)	18	26	35	23	32	41	29	39	48	35	46	56
	L (Deflection)	18	26	35	23	32	41	29	39	48	35	46	56
23' - 0"	α _D D+α _L L (Strength)	39	49	71	42	52	75	44	55	80	47	59	84
	D+L (Deflection)	11	18	25	15	23	30	20	28	36	25	34	43
	L (Deflection)	11	18	25	15	23	30	20	28	36	25	34	43
24' - 0"	α _D D+α _L L (Strength)	34	42	62	36	45	66	38	47	70	40	50	74
	D+L (Deflection)	5	11	18	9	15	22	12	20	27	17	25	32
	L (Deflection)	5	11	18	9	15	22	12	20	27	17	25	32
25' - 0"	α _D D+α _L L (Strength)	29	36	54	30	38	58	32	41	61	28	43	65
	D+L (Deflection)	0	5	11	3	8	14	6	12	18	9	16	23
	L (Deflection)	0	5	11	3	8	14	6	12	18	9	16	23

MAXIMUM UNSHORED CONSTRUCTION CLEAR SPANS

1span	14' - 5"	15' - 6"	16' - 4"	14' - 2"	15' - 3"	16' - 2"	14' - 0"	15' - 0"	15' - 11"	13' - 9"	14' - 10"	15' - 9"
2span	13' - 1"	16' - 11"	20' - 0"	12' - 9"	16' - 6"	19' - 7"	12' - 6"	16' - 2"	19' - 2"	12' - 3"	15' - 10"	18' - 10"
3span	13' - 7"	17' - 6"	19' - 2"	13' - 3"	17' - 1"	18' - 11"	12' - 11"	16' - 9"	18' - 8"	12' - 8"	16' - 5"	18' - 5"
cantilever	6' - 7"	7' - 11"	8' - 5"	6' - 5"	7' - 9"	8' - 3"	6' - 4"	7' - 7"	8' - 2"	6' - 3"	7' - 5"	8' - 0"
cy/100sf	1.14			1.22			1.29			1.37		

13' - 0"	α _D D+α _L L (Strength)	172	← Max. superimposed LSD factored dead + live load (psf) (governed by strength limitation)
	D+L (Deflection)	172	← Max. superimposed LSD unfactored dead + live load (psf) (governed by deflection limitation of L/240)
	L (Deflection)	172	← 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_p** 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

- 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

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.

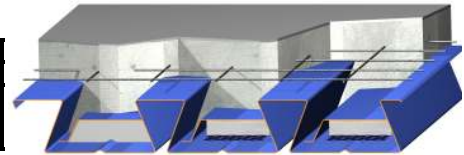
The section property table is based on 2001 AISI's Cold-Formed Steel Design Manual, 2004 Supplement. The live loads and unshored construction clear spans are based on the Canadian Sheet Steel Building Institute's Standard for Composite Steel Deck (CSSBI 12M-06), September 2006 and Criteria for the Design 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 _p	S _p	S _n	Rbe			Rbi		
					2"	3"	4"	4"	5"	6"
20	3.07	1.803	0.747	0.803	927	1062	1177	1886	2029	2159
18	4.06	2.450	1.080	1.181	1565	1783	1966	3136	3362	3566
16	5.12	3.122	1.466	1.522	2409	2729	2999	4776	5103	5400



SIMPLE SPAN - MAXIMUM SUPERIMPOSED LSD LOADS, (psf), NO STUDS ON BEAMS													
h (Wc)		6.5" (44.92)			6.75" (47.32)			7" (49.71)			7.25" (52.11)		
Span	Load Combinations	GAGE											
		20	18	16	20	18	16	20	18	16	20	18	16
13' - 0"	α _D D+α _L L (Strength)	175	310	412	174	318	432	171	325	453	167	331	474
	D+L (Deflection)	175	310	400	174	318	400	171	325	400	167	331	400
	L (Deflection)	175	310	374	174	318	400	171	325	400	167	331	400
14' - 0"	α _D D+α _L L (Strength)	210	239	348	220	243	366	231	245	377	241	247	387
	D+L (Deflection)	210	239	348	220	243	366	231	245	377	241	247	387
	L (Deflection)	210	239	299	220	243	332	231	245	367	241	247	387
15' - 0"	α _D D+α _L L (Strength)	176	218	284	185	229	292	194	240	298	202	251	304
	D+L (Deflection)	176	218	284	185	229	292	194	240	298	202	251	304
	L (Deflection)	176	217	243	185	229	270	194	240	298	202	251	304
16' - 0"	α _D D+α _L L (Strength)	148	184	239	156	193	251	163	203	263	171	212	275
	D+L (Deflection)	148	184	239	156	193	251	163	203	263	171	212	275
	L (Deflection)	148	179	201	156	193	222	163	203	246	171	212	271
17' - 0"	α _D D+α _L L (Strength)	126	156	205	132	164	215	139	172	225	145	180	236
	D+L (Deflection)	126	156	201	132	164	215	139	172	225	145	180	236
	L (Deflection)	126	149	167	132	164	185	139	172	205	145	180	226
18' - 0"	α _D D+α _L L (Strength)	107	133	177	113	140	186	118	147	194	124	153	203
	D+L (Deflection)	107	133	161	113	140	182	118	147	194	124	153	203
	L (Deflection)	107	126	141	113	139	156	118	147	173	124	153	190
19' - 0"	α _D D+α _L L (Strength)	92	114	153	96	120	161	101	125	168	106	131	176
	D+L (Deflection)	92	111	130	96	120	147	101	125	165	106	131	176
	L (Deflection)	92	107	120	96	119	133	101	125	147	106	131	162
20' - 0"	α _D D+α _L L (Strength)	79	98	133	83	103	140	86	107	146	90	112	153
	D+L (Deflection)	72	88	104	83	101	118	86	107	134	90	112	151
	L (Deflection)	72	88	103	83	101	114	86	107	126	90	112	139
21' - 0"	α _D D+α _L L (Strength)	67	84	116	71	88	122	74	92	128	78	97	134
	D+L (Deflection)	56	70	83	65	80	95	74	92	108	78	97	122
	L (Deflection)	56	70	83	65	80	95	74	92	108	78	97	120
22' - 0"	α _D D+α _L L (Strength)	58	72	101	61	76	106	64	79	112	66	83	117
	D+L (Deflection)	42	54	66	50	63	76	58	73	87	66	83	99
	L (Deflection)	42	54	66	50	63	76	58	73	87	66	83	99
23' - 0"	α _D D+α _L L (Strength)	49	62	89	52	65	93	54	68	98	49	71	102
	D+L (Deflection)	31	41	51	37	49	60	44	57	69	49	66	79
	L (Deflection)	31	41	51	37	49	60	44	57	69	49	66	79
24' - 0"	α _D D+α _L L (Strength)	42	53	78	38	56	82	39	58	86	41	61	90
	D+L (Deflection)	21	30	39	27	37	46	33	44	54	39	51	63
	L (Deflection)	21	30	39	27	37	46	33	44	54	39	51	63
25' - 0"	α _D D+α _L L (Strength)	29	45	68	31	47	72	32	50	75	34	52	78
	D+L (Deflection)	13	21	29	18	27	35	23	33	42	28	39	49
	L (Deflection)	13	21	29	18	27	35	23	33	42	28	39	49
MAXIMUM UNSHORED CONSTRUCTION CLEAR SPANS													
1span	13' - 7"	14' - 8"	15' - 6"	13' - 5"	14' - 6"	15' - 4"	13' - 3"	14' - 4"	15' - 2"	13' - 2"	14' - 2"	15' - 0"	
2span	12' - 0"	15' - 7"	18' - 6"	11' - 9"	15' - 3"	18' - 2"	11' - 6"	15' - 0"	17' - 10"	11' - 3"	14' - 8"	17' - 6"	
3span	12' - 5"	16' - 1"	18' - 2"	12' - 2"	15' - 9"	18' - 0"	11' - 11"	15' - 6"	17' - 9"	11' - 8"	15' - 3"	17' - 7"	
cantilever	6' - 2"	7' - 4"	7' - 10"	6' - 0"	7' - 3"	7' - 9"	5' - 11"	7' - 1"	7' - 7"	5' - 10"	7' - 0"	7' - 6"	
cy/100sf	1.45			1.52			1.60			1.68			

13' - 0"	α _D D+α _L L (Strength)	175	← Max. superimposed LSD factored dead + live load (psf) (governed by strength limitation)
	D+L (Deflection)	175	← Max. superimposed LSD unfactored dead + live load (psf) (governed by deflection limitation of L/240)
	L (Deflection)	175	← 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_p** 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

- 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

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.

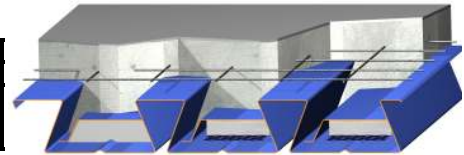
The section property table is based on 2001 AISI's Cold-Formed Steel Design Manual, 2004 Supplement. The live loads and unshored construction clear spans are based on the Canadian Sheet Steel Building Institute's Standard for Composite Steel Deck (CSSBI 12M-06), September 2006 and Criteria for the Design 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 _p	S _p	S _n	Rbe			Rbi		
					2"	3"	4"	4"	5"	6"
20	3.07	1.803	0.747	0.803	927	1062	1177	1886	2029	2159
18	4.06	2.450	1.080	1.181	1565	1783	1966	3136	3362	3566
16	5.12	3.122	1.466	1.522	2409	2729	2999	4776	5103	5400



SIMPLE SPAN - MAXIMUM SUPERIMPOSED LSD LOADS, (psf), NO STUDS ON BEAMS													
h (Wc)		7.5" (54.51)			7.75" (56.9)			8" (59.3)			8.25" (61.69)		
Span	Load Combinations	GAGE											
		20	18	16	20	18	16	20	18	16	20	18	16
13' - 0"	α _D D+α _L L (Strength)	162	336	495	316	341	500	328	344	500	341	346	500
	D+L (Deflection)	162	336	400	316	341	400	328	344	400	341	346	400
	L (Deflection)	162	336	400	316	341	400	328	344	400	341	346	400
14' - 0"	α _D D+α _L L (Strength)	252	248	397	263	326	406	273	339	413	284	352	420
	D+L (Deflection)	252	248	397	263	326	400	273	339	400	284	352	400
	L (Deflection)	252	248	397	263	326	400	273	339	400	284	352	400
15' - 0"	α _D D+α _L L (Strength)	211	262	310	220	273	351	229	284	365	238	295	379
	D+L (Deflection)	211	262	310	220	273	351	229	284	365	238	295	379
	L (Deflection)	211	262	310	220	273	351	229	284	365	238	295	379
16' - 0"	α _D D+α _L L (Strength)	178	221	287	186	231	299	193	240	311	201	249	323
	D+L (Deflection)	178	221	287	186	231	299	193	240	311	201	249	323
	L (Deflection)	178	221	287	186	231	299	193	240	311	201	249	323
17' - 0"	α _D D+α _L L (Strength)	151	188	246	158	196	257	164	204	267	170	212	277
	D+L (Deflection)	151	188	246	158	196	257	164	204	267	170	212	277
	L (Deflection)	151	188	246	158	196	257	164	204	267	170	212	277
18' - 0"	α _D D+α _L L (Strength)	129	160	212	134	167	221	140	174	230	145	180	239
	D+L (Deflection)	129	160	212	134	167	221	140	174	230	145	180	239
	L (Deflection)	129	160	209	134	167	221	140	174	230	145	180	239
19' - 0"	α _D D+α _L L (Strength)	110	137	184	115	143	192	120	148	199	124	154	207
	D+L (Deflection)	110	137	184	115	143	192	120	148	199	124	154	207
	L (Deflection)	110	137	178	115	143	192	120	148	199	124	154	207
20' - 0"	α _D D+α _L L (Strength)	94	117	160	98	122	167	102	127	173	106	132	180
	D+L (Deflection)	94	117	160	98	122	167	102	127	173	106	132	180
	L (Deflection)	94	117	152	98	122	167	102	127	173	106	132	180
21' - 0"	α _D D+α _L L (Strength)	81	101	139	84	105	145	88	109	151	91	113	157
	D+L (Deflection)	81	101	138	84	105	145	88	109	151	91	113	157
	L (Deflection)	81	101	132	84	105	144	88	109	151	91	113	157
22' - 0"	α _D D+α _L L (Strength)	69	87	122	64	90	127	67	94	132	69	97	137
	D+L (Deflection)	69	87	112	64	90	126	67	94	132	69	97	137
	L (Deflection)	69	87	112	64	90	126	67	94	132	69	97	137
23' - 0"	α _D D+α _L L (Strength)	52	74	107	54	77	111	56	80	116	58	84	120
	D+L (Deflection)	52	74	91	54	77	103	56	80	116	58	84	120
	L (Deflection)	52	74	91	54	77	103	56	80	116	58	84	120
24' - 0"	α _D D+α _L L (Strength)	43	64	94	45	66	97	51	69	101	53	72	105
	D+L (Deflection)	43	60	73	45	66	83	51	69	94	53	72	105
	L (Deflection)	43	60	73	45	66	83	51	69	94	53	72	105
25' - 0"	α _D D+α _L L (Strength)	40	54	82	41	57	85	43	59	89	45	61	92
	D+L (Deflection)	34	46	57	41	54	66	43	59	76	45	61	86
	L (Deflection)	34	46	57	41	54	66	43	59	76	45	61	86
MAXIMUM UNSHORED CONSTRUCTION CLEAR SPANS													
1span	13' - 0"	14' - 0"	14' - 10"	12' - 10"	13' - 11"	14' - 9"	12' - 9"	13' - 9"	14' - 7"	12' - 6"	13' - 7"	14' - 5"	
2span	11' - 0"	14' - 5"	17' - 3"	10' - 10"	14' - 2"	16' - 11"	10' - 8"	13' - 11"	16' - 8"	10' - 6"	13' - 9"	16' - 5"	
3span	11' - 5"	14' - 11"	17' - 5"	11' - 3"	14' - 8"	17' - 3"	11' - 0"	14' - 5"	17' - 1"	10' - 10"	14' - 3"	16' - 11"	
cantilever	5' - 9"	6' - 11"	7' - 5"	5' - 8"	6' - 10"	7' - 4"	5' - 7"	6' - 9"	7' - 3"	5' - 6"	6' - 8"	7' - 2"	
cy/100sf	1.76			1.83			1.91			1.99			

13' - 0"	α _D D+α _L L (Strength)	162	← Max. superimposed LSD factored dead + live load (psf) (governed by strength limitation)
	D+L (Deflection)	162	← Max. superimposed LSD unfactored dead + live load (psf) (governed by deflection limitation of L/240)
	L (Deflection)	162	← 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_p** 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

- 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

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