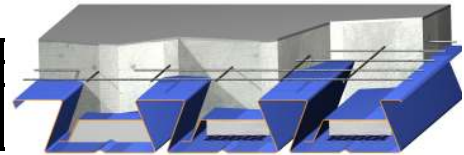


SECTION PROPERTIES $f_y=40$ ksi

GAGE	Wd	I_p	Sp	Sn	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" (44.56)			5.75" (47.58)			6" (50.6)			6.25" (53.62)		
Span	Load Combinations	GAGE											
		20	18	16	20	18	16	20	18	16	20	18	16
13' - 0"	$\alpha_D D + \alpha_L L$ (Strength)	143	252	329	140	259	349	136	264	370	131	269	391
	D+L (Deflection)	143	252	329	140	259	349	136	264	370	131	269	391
	L (Deflection)	143	251	283	140	259	319	136	264	358	131	269	391
14' - 0"	$\alpha_D D + \alpha_L L$ (Strength)	164	195	278	175	197	295	185	199	308	195	199	317
	D+L (Deflection)	164	195	278	175	197	295	185	199	308	195	199	317
	L (Deflection)	164	195	227	175	197	255	185	199	286	195	199	317
15' - 0"	$\alpha_D D + \alpha_L L$ (Strength)	137	171	227	146	182	238	155	192	243	163	203	236
	D+L (Deflection)	137	171	227	146	182	238	155	192	243	163	203	236
	L (Deflection)	137	164	184	146	182	207	155	192	233	163	203	236
16' - 0"	$\alpha_D D + \alpha_L L$ (Strength)	115	144	187	123	153	194	130	162	210	137	171	223
	D+L (Deflection)	115	144	178	123	153	194	130	162	210	137	171	223
	L (Deflection)	115	135	152	123	152	171	130	162	192	137	171	215
17' - 0"	$\alpha_D D + \alpha_L L$ (Strength)	97	121	160	104	129	163	110	137	176	116	145	190
	D+L (Deflection)	97	120	140	104	129	161	110	137	176	116	145	190
	L (Deflection)	97	112	127	104	127	142	110	137	160	116	145	179
18' - 0"	$\alpha_D D + \alpha_L L$ (Strength)	82	103	136	88	110	136	93	116	147	98	123	160
	D+L (Deflection)	76	93	110	88	109	127	93	116	146	98	123	160
	L (Deflection)	76	93	107	88	107	120	93	116	135	98	123	151
19' - 0"	$\alpha_D D + \alpha_L L$ (Strength)	70	88	114	74	93	114	79	99	123	83	104	134
	D+L (Deflection)	58	72	86	69	85	100	79	99	116	83	104	133
	L (Deflection)	58	72	86	69	85	100	79	99	115	83	104	128
20' - 0"	$\alpha_D D + \alpha_L L$ (Strength)	60	75	95	63	79	95	67	84	103	71	89	112
	D+L (Deflection)	43	55	67	52	65	78	62	77	92	71	89	106
	L (Deflection)	43	55	67	52	65	78	62	77	92	71	89	106
21' - 0"	$\alpha_D D + \alpha_L L$ (Strength)	50	62	79	54	67	78	57	72	85	60	76	93
	D+L (Deflection)	30	41	51	38	49	61	46	59	72	55	70	84
	L (Deflection)	30	41	51	38	49	61	46	59	72	55	70	84
22' - 0"	$\alpha_D D + \alpha_L L$ (Strength)	39	49	65	43	54	64	47	59	70	51	64	76
	D+L (Deflection)	20	29	38	26	36	46	33	44	55	41	53	65
	L (Deflection)	20	29	38	26	36	46	33	44	55	41	53	65
23' - 0"	$\alpha_D D + \alpha_L L$ (Strength)	29	39	53	32	43	51	34	47	57	35	52	62
	D+L (Deflection)	12	19	27	17	25	34	22	32	41	28	39	50
	L (Deflection)	12	19	27	17	25	34	22	32	41	28	39	50
24' - 0"	$\alpha_D D + \alpha_L L$ (Strength)	21	29	43	26	33	41	27	36	45	29	40	50
	D+L (Deflection)	5	11	18	9	16	23	13	21	29	18	28	37
	L (Deflection)	5	11	18	9	16	23	13	21	29	18	28	37
25' - 0"	$\alpha_D D + \alpha_L L$ (Strength)	19	21	33	20	24	31	21	27	34	27	30	38
	D+L (Deflection)	-1	4	10	2	8	14	5	13	20	10	18	26
	L (Deflection)	-1	4	10	2	8	14	5	13	20	10	18	26
MAXIMUM UNSHORED CONSTRUCTION CLEAR SPANS													
1span	13' - 7"	14' - 8"	15' - 7"	13' - 5"	14' - 6"	15' - 4"	13' - 3"	14' - 3"	15' - 1"	13' - 0"	14' - 1"	14' - 11"	
2span	12' - 0"	15' - 7"	18' - 6"	11' - 8"	15' - 3"	18' - 1"	11' - 5"	14' - 10"	17' - 9"	11' - 1"	14' - 6"	17' - 4"	
3span	12' - 5"	16' - 2"	18' - 3"	12' - 1"	15' - 9"	18' - 0"	11' - 10"	15' - 5"	17' - 9"	11' - 6"	15' - 0"	17' - 6"	
cantilever	6' - 2"	7' - 4"	7' - 11"	6' - 0"	7' - 2"	7' - 9"	5' - 11"	7' - 1"	7' - 7"	5' - 10"	6' - 11"	7' - 5"	
cy/100sf	1.14			1.22			1.29			1.37			

13' - 0"	$\alpha_D D + \alpha_L L$ (Strength)	143	← Max. superimposed LSD factored dead + live load (psf) (governed by strength limitation)
	D+L (Deflection)	143	← Max. superimposed LSD unfactored dead + live load (psf) (governed by deflection limitation of L/240)
	L (Deflection)	143	← 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
- 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

- 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.

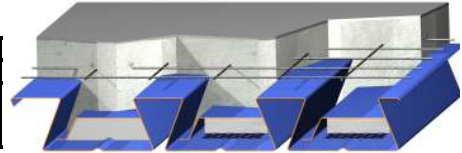
The section property table is based on 2001 AISI's Cold-Formed Steel Design Manual, 2004 Supplement. The live loads and unshored construction clear spans are based on the Canadian Sheet Steel Building Institute's Standard for Composite Steel Deck (CSSBI 12M-06), September 2006 and Criteria for the Design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

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

145 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" (56.64)			6.75" (59.66)			7" (62.68)			7.25" (65.7)		
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)	248	272	412	260	274	428	273	275	439	285	275	449
	D+L (Deflection)	248	272	400	260	274	400	273	275	400	285	275	400
	L (Deflection)	248	272	400	260	274	400	273	275	400	285	275	400
14' - 0"	α _D D+α _L L (Strength)	206	256	325	216	269	331	226	282	337	237	295	341
	D+L (Deflection)	206	256	325	216	269	331	226	282	337	237	295	341
	L (Deflection)	206	256	325	216	269	331	226	282	337	237	295	341
15' - 0"	α _D D+α _L L (Strength)	172	214	276	180	225	290	189	236	304	198	246	318
	D+L (Deflection)	172	214	276	180	225	290	189	236	304	198	246	318
	L (Deflection)	172	214	276	180	225	290	189	236	304	198	246	318
16' - 0"	α _D D+α _L L (Strength)	144	180	235	152	189	246	159	198	258	166	207	270
	D+L (Deflection)	144	180	235	152	189	246	159	198	258	166	207	270
	L (Deflection)	144	180	235	152	189	246	159	198	258	166	207	270
17' - 0"	α _D D+α _L L (Strength)	122	152	201	128	160	211	134	168	221	140	175	231
	D+L (Deflection)	122	152	201	128	160	211	134	168	221	140	175	231
	L (Deflection)	122	152	200	128	160	211	134	168	221	140	175	231
18' - 0"	α _D D+α _L L (Strength)	103	129	172	109	136	181	114	142	190	119	149	199
	D+L (Deflection)	103	129	172	109	136	181	114	142	190	119	149	199
	L (Deflection)	103	129	168	109	136	181	114	142	190	119	149	199
19' - 0"	α _D D+α _L L (Strength)	88	110	145	92	115	156	97	121	164	101	127	172
	D+L (Deflection)	88	110	145	92	115	156	97	121	164	101	127	172
	L (Deflection)	88	110	143	92	115	156	97	121	164	101	127	172
20' - 0"	α _D D+α _L L (Strength)	75	94	121	78	98	132	82	103	142	86	108	149
	D+L (Deflection)	75	94	121	78	98	132	82	103	142	86	108	149
	L (Deflection)	75	94	121	78	98	132	82	103	142	86	108	149
21' - 0"	α _D D+α _L L (Strength)	63	80	101	66	84	110	61	88	119	64	92	129
	D+L (Deflection)	63	80	97	66	84	110	61	88	119	64	92	129
	L (Deflection)	63	80	97	66	84	110	61	88	119	64	92	129
22' - 0"	α _D D+α _L L (Strength)	46	68	84	48	71	91	50	75	99	52	78	108
	D+L (Deflection)	46	63	76	48	71	89	50	75	99	52	78	108
	L (Deflection)	46	63	76	48	71	89	50	75	99	52	78	108
23' - 0"	α _D D+α _L L (Strength)	37	57	68	39	61	75	41	63	82	48	66	89
	D+L (Deflection)	35	47	59	39	57	69	41	63	81	48	66	89
	L (Deflection)	35	47	59	39	57	69	41	63	81	48	66	89
24' - 0"	α _D D+α _L L (Strength)	30	45	55	36	50	60	38	54	67	40	56	73
	D+L (Deflection)	24	34	45	31	42	53	38	51	63	40	56	73
	L (Deflection)	24	34	45	31	42	53	38	51	63	40	56	73
25' - 0"	α _D D+α _L L (Strength)	28	34	43	30	38	48	31	43	53	33	47	59
	D+L (Deflection)	14	23	32	20	30	40	26	37	48	33	45	57
	L (Deflection)	14	23	32	20	30	40	26	37	48	33	45	57
MAXIMUM UNSHORED CONSTRUCTION CLEAR SPANS													
1span	12' - 10"	13' - 11"	14' - 9"	12' - 8"	13' - 9"	14' - 7"	12' - 5"	13' - 7"	14' - 5"	12' - 2"	13' - 5"	14' - 3"	
2span	10' - 10"	14' - 3"	17' - 0"	10' - 7"	13' - 11"	16' - 8"	10' - 5"	13' - 8"	16' - 4"	10' - 2"	13' - 4"	16' - 0"	
3span	11' - 3"	14' - 9"	17' - 3"	11' - 0"	14' - 5"	17' - 1"	10' - 9"	14' - 1"	16' - 10"	10' - 6"	13' - 10"	16' - 7"	
cantilever	5' - 8"	6' - 10"	7' - 4"	5' - 7"	6' - 9"	7' - 3"	5' - 6"	6' - 7"	7' - 1"	5' - 5"	6' - 6"	7' - 0"	
cy/100sf	1.45			1.52			1.60			1.68			

13' - 0"	α _D D+α _L L (Strength)	248	← Max. superimposed LSD factored dead + live load (psf) (governed by strength limitation)
	D+L (Deflection)	248	← Max. superimposed LSD unfactored dead + live load (psf) (governed by deflection limitation of L/240)
	L (Deflection)	248	← 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.

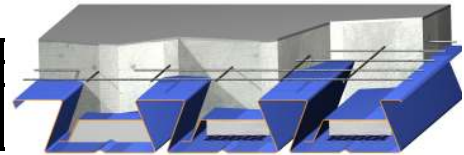
The section property table is based on 2001 AISI's Cold-Formed Steel Design Manual, 2004 Supplement. The live loads and unshored construction clear spans are based on the Canadian Sheet Steel Building Institute's Standard for Composite Steel Deck (CSSBI 12M-06), September 2006 and Criteria for the Design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

145 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" (68.72)			7.75" (71.74)			8" (74.77)			8.25" (77.79)		
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)	298	273	458	310	269	466	323	264	472	335	417	478
	D+L (Deflection)	298	273	400	310	269	400	323	264	400	335	400	400
	L (Deflection)	298	273	400	310	269	400	323	264	400	335	400	400
14' - 0"	α _D D+α _L L (Strength)	247	308	345	257	321	409	268	333	426	278	346	442
	D+L (Deflection)	247	308	345	257	321	400	268	333	400	278	346	400
	L (Deflection)	247	308	345	257	321	400	268	333	400	278	346	400
15' - 0"	α _D D+α _L L (Strength)	206	257	332	215	268	346	224	279	359	232	290	373
	D+L (Deflection)	206	257	332	215	268	346	224	279	359	232	290	373
	L (Deflection)	206	257	332	215	268	346	224	279	359	232	290	373
16' - 0"	α _D D+α _L L (Strength)	174	216	282	181	225	294	188	235	306	195	244	318
	D+L (Deflection)	174	216	282	181	225	294	188	235	306	195	244	318
	L (Deflection)	174	216	282	181	225	294	188	235	306	195	244	318
17' - 0"	α _D D+α _L L (Strength)	147	183	241	153	191	251	159	198	262	165	206	272
	D+L (Deflection)	147	183	241	153	191	251	159	198	262	165	206	272
	L (Deflection)	147	183	241	153	191	251	159	198	262	165	206	272
18' - 0"	α _D D+α _L L (Strength)	124	155	207	129	162	216	135	168	225	140	175	234
	D+L (Deflection)	124	155	207	129	162	216	135	168	225	140	175	234
	L (Deflection)	124	155	207	129	162	216	135	168	225	140	175	234
19' - 0"	α _D D+α _L L (Strength)	105	132	179	110	138	187	114	143	194	108	149	202
	D+L (Deflection)	105	132	179	110	138	187	114	143	194	108	149	202
	L (Deflection)	105	132	179	110	138	187	114	143	194	108	149	202
20' - 0"	α _D D+α _L L (Strength)	80	112	155	83	117	162	87	122	168	90	127	175
	D+L (Deflection)	80	112	155	83	117	162	87	122	168	90	127	175
	L (Deflection)	80	112	155	83	117	162	87	122	168	90	127	175
21' - 0"	α _D D+α _L L (Strength)	66	96	135	69	100	140	72	104	146	81	108	152
	D+L (Deflection)	66	96	135	69	100	140	72	104	146	81	108	152
	L (Deflection)	66	96	135	69	100	140	72	104	146	81	108	152
22' - 0"	α _D D+α _L L (Strength)	55	82	117	63	85	122	65	88	127	68	92	132
	D+L (Deflection)	55	82	117	63	85	122	65	88	127	68	92	132
	L (Deflection)	55	82	117	63	85	122	65	88	127	68	92	132
23' - 0"	α _D D+α _L L (Strength)	50	69	97	52	72	106	54	75	110	57	78	115
	D+L (Deflection)	50	69	97	52	72	106	54	75	110	57	78	115
	L (Deflection)	50	69	97	52	72	106	54	75	110	57	78	115
24' - 0"	α _D D+α _L L (Strength)	42	59	80	43	61	87	45	64	95	47	66	100
	D+L (Deflection)	42	59	80	43	61	87	45	64	95	47	66	100
	L (Deflection)	42	59	80	43	61	87	45	64	95	47	66	100
25' - 0"	α _D D+α _L L (Strength)	34	49	65	35	51	71	37	54	78	38	45	85
	D+L (Deflection)	34	49	65	35	51	71	37	54	78	38	45	85
	L (Deflection)	34	49	65	35	51	71	37	54	78	38	45	85
MAXIMUM UNSHORED CONSTRUCTION CLEAR SPANS													
1span	12' - 0"	13' - 3"	14' - 1"	11' - 9"	13' - 2"	13' - 11"	11' - 7"	13' - 0"	13' - 10"	11' - 5"	12' - 11"	13' - 8"	
2span	9' - 11"	13' - 1"	15' - 9"	9' - 9"	12' - 10"	15' - 5"	9' - 7"	12' - 7"	15' - 2"	9' - 5"	12' - 5"	14' - 11"	
3span	10' - 4"	13' - 7"	16' - 3"	10' - 1"	13' - 4"	16' - 0"	9' - 11"	13' - 1"	15' - 9"	9' - 9"	12' - 10"	15' - 5"	
cantilever	5' - 4"	6' - 5"	6' - 11"	5' - 3"	6' - 4"	6' - 10"	5' - 2"	6' - 3"	6' - 9"	5' - 1"	6' - 2"	6' - 8"	
cy/100sf	1.76			1.83			1.91			1.99			

13' - 0"	α _D D+α _L L (Strength)	298	← Max. superimposed LSD factored dead + live load (psf) (governed by strength limitation)
	D+L (Deflection)	298	← Max. superimposed LSD unfactored dead + live load (psf) (governed by deflection limitation of L/240)
	L (Deflection)	298	← 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.

145 PCF CONCRETE