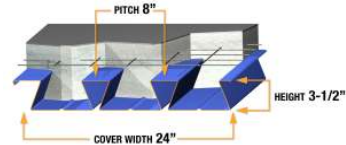


SECTION PROPERTIES $f_y=40$ ksi

GAGE	Wd	I _p	S _p	S _n	Rbe			Rbi		
					2"	3"	4"	4"	5"	6"
20	3.33	1.959	0.767	0.820	927	1062	1177	1886	2029	2159
18	4.40	2.664	1.109	1.190	1565	1783	1966	3136	3362	3566
16	5.54	3.394	1.504	1.540	2409	2729	2999	4776	5103	5400



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

h (Wc)		5.5" (44.32)			5.75" (46.72)			6" (49.11)			6.25" (51.51)		
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)	160	267	370	163	283	391	162	300	419	161	308	451
	D+L (Deflection)	160	267	370	163	283	391	162	300	400	161	308	400
	L (Deflection)	160	264	297	163	283	328	162	300	364	161	308	400
14' - 0"	$\alpha_D D + \alpha_L L$ (Strength)	151	207	298	161	217	314	170	228	334	180	232	358
	D+L (Deflection)	151	207	298	161	217	314	170	228	334	180	232	358
	L (Deflection)	151	207	238	161	217	263	170	228	291	180	232	324
15' - 0"	$\alpha_D D + \alpha_L L$ (Strength)	127	158	240	135	270	251	143	285	265	151	301	283
	D+L (Deflection)	127	158	240	135	236	251	143	268	265	151	301	283
	L (Deflection)	127	158	193	135	192	214	143	214	237	151	239	263
16' - 0"	$\alpha_D D + \alpha_L L$ (Strength)	108	221	305	114	234	301	121	245	291	128	262	290
	D+L (Deflection)	108	164	189	114	186	212	121	211	238	128	239	268
	L (Deflection)	108	142	159	114	158	176	121	176	195	128	197	217
17' - 0"	$\alpha_D D + \alpha_L L$ (Strength)	92	193	265	97	205	258	103	207	248	109	224	246
	D+L (Deflection)	92	128	149	97	146	168	103	167	189	109	190	214
	L (Deflection)	92	118	133	97	132	147	103	147	163	109	164	181
18' - 0"	$\alpha_D D + \alpha_L L$ (Strength)	78	170	232	83	176	221	88	176	212	93	190	210
	D+L (Deflection)	78	100	118	83	115	133	88	132	151	93	151	171
	L (Deflection)	78	99	112	83	111	124	88	124	137	93	138	152
19' - 0"	$\alpha_D D + \alpha_L L$ (Strength)	67	151	205	71	150	190	76	149	182	80	162	179
	D+L (Deflection)	64	78	93	71	90	105	76	104	120	80	120	137
	L (Deflection)	64	78	93	71	90	105	76	104	116	80	118	129
20' - 0"	$\alpha_D D + \alpha_L L$ (Strength)	58	134	177	61	127	163	65	126	155	69	137	153
	D+L (Deflection)	48	60	72	58	70	83	65	82	95	69	95	109
	L (Deflection)	48	60	72	58	70	83	65	82	95	69	95	109
21' - 0"	$\alpha_D D + \alpha_L L$ (Strength)	49	117	154	53	108	141	56	107	133	59	116	131
	D+L (Deflection)	35	45	56	43	54	64	52	63	75	59	75	87
	L (Deflection)	35	45	56	43	54	64	52	63	75	59	75	87
22' - 0"	$\alpha_D D + \alpha_L L$ (Strength)	42	100	133	45	91	121	48	90	114	51	98	111
	D+L (Deflection)	24	33	42	31	40	49	38	48	58	47	58	68
	L (Deflection)	24	33	42	31	40	49	38	48	58	47	58	68
23' - 0"	$\alpha_D D + \alpha_L L$ (Strength)	36	85	115	39	77	104	41	75	97	36	83	94
	D+L (Deflection)	15	23	30	21	29	36	27	35	44	34	43	52
	L (Deflection)	15	23	30	21	29	36	27	35	44	34	43	52
24' - 0"	$\alpha_D D + \alpha_L L$ (Strength)	31	72	99	26	64	89	28	62	82	30	69	79
	D+L (Deflection)	8	14	21	12	19	26	18	25	32	23	31	39
	L (Deflection)	8	14	21	12	19	26	18	25	32	23	31	39
25' - 0"	$\alpha_D D + \alpha_L L$ (Strength)	20	60	86	22	53	75	23	51	69	25	56	66
	D+L (Deflection)	1	7	13	5	11	17	9	16	22	14	21	28
	L (Deflection)	1	7	13	5	11	17	9	16	22	14	21	28

MAXIMUM UNSHORED CONSTRUCTION CLEAR SPANS														
1span	13' - 11"	15' - 0"	15' - 10"	13' - 9"	14' - 10"	15' - 8"	13' - 7"	14' - 8"	15' - 6"	13' - 5"	14' - 6"	15' - 4"		
2span	12' - 1"	15' - 7"	18' - 7"	11' - 10"	15' - 4"	18' - 3"	11' - 7"	15' - 0"	17' - 11"	11' - 4"	14' - 9"	17' - 7"		
3span	12' - 6"	16' - 2"	18' - 7"	12' - 3"	15' - 10"	18' - 5"	12' - 0"	15' - 7"	18' - 2"	11' - 9"	15' - 3"	18' - 0"		
cantilever	6' - 3"	7' - 6"	8' - 1"	6' - 2"	7' - 5"	8' - 0"	6' - 0"	7' - 3"	7' - 10"	5' - 11"	7' - 2"	7' - 9"		
cy/100sf	1.43			1.50				1.58			1.66			

13' - 0"	$\alpha_D D + \alpha_L L$ (Strength)	160	← Max. superimposed LSD factored dead + live load (psf) (governed by strength limitation)
	D+L (Deflection)	160	← Max. superimposed LSD unfactored dead + live load (psf) (governed by deflection limitation of L/240)
	L (Deflection)	160	← 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, 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

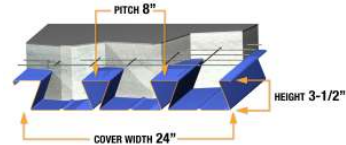
Construction spans shown based on 2" exterior bearing and 4" interior bearing width.

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 $f_y=40$ ksi

GAGE	Wd	I _p	S _p	S _n	Rbe			Rbi		
					2"	3"	4"	4"	5"	6"
20	3.33	1.959	0.767	0.820	927	1062	1177	1886	2029	2159
18	4.40	2.664	1.109	1.190	1565	1783	1966	3136	3362	3566
16	5.54	3.394	1.504	1.540	2409	2729	2999	4776	5103	5400



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

h (Wc)		6.5" (53.91)			6.75" (56.3)			7" (58.7)			7.25" (61.09)		
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)	157	315	468	153	322	484	249	327	500	260	331	500
	D+L (Deflection)	157	315	400	153	322	400	249	327	400	260	331	400
	L (Deflection)	157	315	400	153	322	400	249	327	400	260	331	400
14' - 0"	$\alpha_D D + \alpha_L L$ (Strength)	189	234	369	199	236	380	208	237	390	217	422	399
	D+L (Deflection)	189	234	369	199	236	380	208	237	390	217	400	399
	L (Deflection)	189	234	359	199	236	380	208	237	390	217	400	399
15' - 0"	$\alpha_D D + \alpha_L L$ (Strength)	159	317	289	167	333	295	175	348	422	183	364	451
	D+L (Deflection)	159	317	289	167	333	295	175	348	400	183	364	400
	L (Deflection)	159	265	289	167	294	295	175	325	356	183	357	392
16' - 0"	$\alpha_D D + \alpha_L L$ (Strength)	135	275	311	142	289	334	148	303	358	155	317	384
	D+L (Deflection)	135	270	301	142	289	334	148	303	358	155	317	384
	L (Deflection)	135	219	241	142	242	266	148	267	294	155	294	323
17' - 0"	$\alpha_D D + \alpha_L L$ (Strength)	115	241	265	121	253	285	126	265	306	132	277	328
	D+L (Deflection)	115	215	241	121	242	271	126	265	303	132	277	328
	L (Deflection)	115	182	201	121	202	222	126	223	245	132	245	269
18' - 0"	$\alpha_D D + \alpha_L L$ (Strength)	98	205	227	103	221	244	108	234	262	113	244	281
	D+L (Deflection)	98	172	194	103	194	219	108	219	245	113	244	274
	L (Deflection)	98	154	169	103	170	187	108	188	206	113	207	227
19' - 0"	$\alpha_D D + \alpha_L L$ (Strength)	84	175	194	88	189	209	93	204	225	97	217	242
	D+L (Deflection)	84	137	156	88	156	177	93	176	199	97	198	223
	L (Deflection)	84	131	144	88	145	159	93	160	175	97	176	193
20' - 0"	$\alpha_D D + \alpha_L L$ (Strength)	72	149	166	76	161	179	80	174	193	83	188	208
	D+L (Deflection)	72	110	125	76	125	143	80	142	161	83	160	181
	L (Deflection)	72	110	123	76	124	136	80	137	150	83	151	165
21' - 0"	$\alpha_D D + \alpha_L L$ (Strength)	62	127	142	65	138	154	69	149	166	72	161	179
	D+L (Deflection)	62	87	100	65	100	115	69	114	131	72	130	148
	L (Deflection)	62	87	100	65	100	115	69	114	130	72	130	143
22' - 0"	$\alpha_D D + \alpha_L L$ (Strength)	54	107	121	48	117	131	51	127	142	53	138	154
	D+L (Deflection)	54	68	79	48	79	92	51	91	105	53	104	120
	L (Deflection)	54	68	79	48	79	92	51	91	105	53	104	120
23' - 0"	$\alpha_D D + \alpha_L L$ (Strength)	38	90	103	40	99	112	42	108	122	45	117	132
	D+L (Deflection)	38	52	62	40	62	73	42	72	84	45	83	96
	L (Deflection)	38	52	62	40	62	73	42	72	84	45	83	96
24' - 0"	$\alpha_D D + \alpha_L L$ (Strength)	32	76	87	33	83	95	40	91	104	42	99	113
	D+L (Deflection)	30	39	47	33	47	56	40	56	66	42	65	77
	L (Deflection)	30	39	47	33	47	56	40	56	66	42	65	77
25' - 0"	$\alpha_D D + \alpha_L L$ (Strength)	30	63	73	32	69	80	34	76	88	35	84	96
	D+L (Deflection)	20	28	35	26	34	43	32	42	51	35	50	60
	L (Deflection)	20	28	35	26	34	43	32	42	51	35	50	60

MAXIMUM UNSHORED CONSTRUCTION CLEAR SPANS													
1span	13' - 3"	14' - 4"	15' - 2"	13' - 2"	14' - 2"	15' - 0"	12' - 11"	14' - 1"	14' - 11"	12' - 9"	13' - 11"	14' - 9"	
2span													
3span	11' - 2"	14' - 6"	17' - 4"	10' - 11"	14' - 3"	17' - 1"	10' - 9"	14' - 0"	16' - 9"	10' - 7"	13' - 9"	16' - 6"	
cantilever	5' - 10"	7' - 1"	7' - 8"	5' - 9"	7' - 0"	7' - 6"	5' - 8"	6' - 11"	7' - 5"	5' - 8"	6' - 9"	7' - 4"	
cy/100sf		1.74			1.81			1.89			1.97		

13' - 0"	$\alpha_D D + \alpha_L L$ (Strength)	157	← Max. superimposed LSD factored dead + live load (psf) (governed by strength limitation)
	D+L (Deflection)	157	← Max. superimposed LSD unfactored dead + live load (psf) (governed by deflection limitation of L/240)
	L (Deflection)	157	← 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, 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

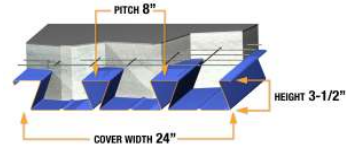
Construction spans shown based on 2" exterior bearing and 4" interior bearing width.

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 $f_y=40$ ksi

GAGE	Wd	I _p	S _p	S _n	Rbe			Rbi		
					2"	3"	4"	4"	5"	6"
20	3.33	1.959	0.767	0.820	927	1062	1177	1886	2029	2159
18	4.40	2.664	1.109	1.190	1565	1783	1966	3136	3362	3566
16	5.54	3.394	1.504	1.540	2409	2729	2999	4776	5103	5400



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

h (Wc)		7.5" (63.49)			7.75" (65.89)			8" (68.28)			8.25" (70.68)		
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)	272	335	500	283	337	500	294	338	500	306	338	500
	D+L (Deflection)	272	335	400	283	337	400	294	338	400	306	338	400
	L (Deflection)	272	335	400	283	337	400	294	338	400	306	338	400
14' - 0"	$\alpha_D D + \alpha_L L$ (Strength)	227	441	407	236	459	414	246	477	421	255	495	426
	D+L (Deflection)	227	400	400	236	400	400	246	400	400	255	400	400
	L (Deflection)	227	400	400	236	400	400	246	400	400	255	400	400
15' - 0"	$\alpha_D D + \alpha_L L$ (Strength)	191	380	482	199	396	500	207	411	500	215	427	500
	D+L (Deflection)	191	380	400	199	396	400	207	400	400	215	400	400
	L (Deflection)	191	380	400	199	396	400	207	400	400	215	400	400
16' - 0"	$\alpha_D D + \alpha_L L$ (Strength)	162	330	410	169	344	438	175	358	466	182	372	496
	D+L (Deflection)	162	330	400	169	344	400	175	358	400	182	372	400
	L (Deflection)	162	323	354	169	344	388	175	358	400	182	372	400
17' - 0"	$\alpha_D D + \alpha_L L$ (Strength)	138	289	351	144	301	375	150	313	400	155	325	425
	D+L (Deflection)	138	289	351	144	301	375	150	313	400	155	325	400
	L (Deflection)	138	269	295	144	295	323	150	313	353	155	325	384
18' - 0"	$\alpha_D D + \alpha_L L$ (Strength)	118	255	301	123	266	322	128	276	344	133	287	367
	D+L (Deflection)	118	255	301	123	266	322	128	276	344	133	287	367
	L (Deflection)	118	227	249	123	248	272	128	271	297	133	287	323
19' - 0"	$\alpha_D D + \alpha_L L$ (Strength)	101	226	260	106	235	278	110	245	297	114	254	317
	D+L (Deflection)	101	221	248	106	235	276	110	245	297	114	254	317
	L (Deflection)	101	193	212	106	211	231	110	230	253	114	251	275
20' - 0"	$\alpha_D D + \alpha_L L$ (Strength)	87	201	224	91	210	240	95	218	257	88	226	274
	D+L (Deflection)	87	180	203	91	201	226	95	218	251	88	226	274
	L (Deflection)	87	165	181	91	181	198	95	198	217	88	215	236
21' - 0"	$\alpha_D D + \alpha_L L$ (Strength)	66	174	193	69	187	207	72	195	222	75	203	238
	D+L (Deflection)	66	146	166	69	164	186	72	183	207	75	203	229
	L (Deflection)	66	143	157	69	156	171	72	171	187	75	186	204
22' - 0"	$\alpha_D D + \alpha_L L$ (Strength)	56	149	166	58	161	179	61	173	192	69	182	206
	D+L (Deflection)	56	118	135	58	134	152	61	150	170	69	167	189
	L (Deflection)	56	118	135	58	134	149	61	148	163	69	162	177
23' - 0"	$\alpha_D D + \alpha_L L$ (Strength)	47	127	143	54	138	154	56	148	166	58	160	178
	D+L (Deflection)	47	95	110	54	108	124	56	122	140	58	137	156
	L (Deflection)	47	95	110	54	108	124	56	122	140	58	137	155
24' - 0"	$\alpha_D D + \alpha_L L$ (Strength)	44	108	122	46	117	133	48	127	143	50	137	154
	D+L (Deflection)	44	76	88	46	87	101	48	99	114	50	112	128
	L (Deflection)	44	76	88	46	87	101	48	99	114	50	112	128
25' - 0"	$\alpha_D D + \alpha_L L$ (Strength)	37	91	104	39	100	113	40	108	123	42	117	133
	D+L (Deflection)	37	59	70	39	69	81	40	79	92	42	90	105
	L (Deflection)	37	59	70	39	69	81	40	79	92	42	90	105

MAXIMUM UNSHORED CONSTRUCTION CLEAR SPANS													
1span	12' - 7"	13' - 10"	14' - 7"	12' - 4"	13' - 8"	14' - 6"	12' - 2"	13' - 7"	14' - 5"	12' - 0"	13' - 5"	14' - 3"	
2span	10' - 5"	13' - 7"	16' - 3"	10' - 2"	13' - 4"	16' - 0"	10' - 0"	13' - 2"	15' - 10"	9' - 11"	12' - 11"	15' - 7"	
3span	10' - 9"	14' - 0"	16' - 10"	10' - 7"	13' - 10"	16' - 7"	10' - 5"	13' - 7"	16' - 4"	10' - 3"	13' - 5"	16' - 1"	
cantilever	5' - 7"	6' - 9"	7' - 3"	5' - 6"	6' - 8"	7' - 2"	5' - 5"	6' - 7"	7' - 1"	5' - 4"	6' - 6"	7' - 0"	
cy/100sf	2.04			2.12			2.20			2.28			

13' - 0"	$\alpha_D D + \alpha_L L$ (Strength)	272	← Max. superimposed LSD factored dead + live load (psf) (governed by strength limitation)
	D+L (Deflection)	272	← Max. superimposed LSD unfactored dead + live load (psf) (governed by deflection limitation of L/240)
	L (Deflection)	272	← 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, 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