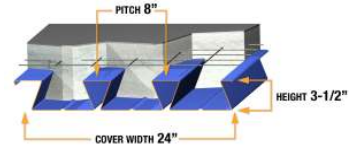


SECTION PROPERTIES

fy=40 ksi

GAGE	Wd	I _b	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" (55.89)			5.75" (58.91)			6" (61.93)			6.25" (64.95)		
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)	120	248	360	188	254	387	200	258	404	211	260	416
	D+L (Deflection)	120	248	360	188	254	387	200	258	400	211	260	400
	L (Deflection)	120	248	354	188	254	387	200	258	400	211	260	400
14' - 0"	α _D D+α _L L (Strength)	147	182	283	157	184	302	166	277	312	175	299	318
	D+L (Deflection)	147	182	283	157	184	302	166	277	312	175	299	318
	L (Deflection)	147	182	283	157	184	302	166	277	312	175	299	318
15' - 0"	α _D D+α _L L (Strength)	123	198	220	131	210	239	139	228	253	147	247	274
	D+L (Deflection)	123	198	220	131	210	239	139	228	253	147	247	274
	L (Deflection)	123	198	220	131	210	239	139	228	253	147	247	274
16' - 0"	α _D D+α _L L (Strength)	104	162	208	110	172	198	117	188	210	123	204	227
	D+L (Deflection)	104	162	208	110	172	198	117	188	210	123	204	227
	L (Deflection)	104	162	190	110	172	198	117	188	210	123	204	227
17' - 0"	α _D D+α _L L (Strength)	88	133	173	93	141	164	99	154	174	104	168	189
	D+L (Deflection)	88	133	173	93	141	164	99	154	174	104	168	189
	L (Deflection)	88	133	158	93	141	164	99	154	174	104	168	189
18' - 0"	α _D D+α _L L (Strength)	74	109	144	79	116	135	84	127	144	89	138	157
	D+L (Deflection)	74	109	139	79	116	135	84	127	144	89	138	157
	L (Deflection)	74	109	133	79	116	135	84	127	144	89	138	157
19' - 0"	α _D D+α _L L (Strength)	63	88	119	67	94	111	71	103	118	75	113	129
	D+L (Deflection)	63	88	109	67	94	111	71	103	118	75	113	129
	L (Deflection)	63	88	109	67	94	111	71	103	118	75	113	129
20' - 0"	α _D D+α _L L (Strength)	54	70	98	57	75	90	61	83	96	64	91	106
	D+L (Deflection)	54	70	84	57	75	90	61	83	96	64	91	106
	L (Deflection)	54	70	84	57	75	90	61	83	96	64	91	106
21' - 0"	α _D D+α _L L (Strength)	40	55	80	45	59	72	51	65	78	45	73	86
	D+L (Deflection)	40	54	64	45	59	72	51	65	78	45	73	86
	L (Deflection)	40	54	64	45	59	72	51	65	78	45	73	86
22' - 0"	α _D D+α _L L (Strength)	28	42	65	33	45	57	35	50	61	37	57	68
	D+L (Deflection)	28	39	48	33	45	57	35	50	61	37	57	68
	L (Deflection)	28	39	48	33	45	57	35	50	61	37	57	68
23' - 0"	α _D D+α _L L (Strength)	24	30	51	26	32	44	28	37	47	35	43	53
	D+L (Deflection)	19	26	34	26	32	43	28	37	47	35	43	53
	L (Deflection)	19	26	34	26	32	43	28	37	47	35	43	53
24' - 0"	α _D D+α _L L (Strength)	19	20	39	25	22	32	27	26	35	29	30	40
	D+L (Deflection)	9	16	23	15	22	30	22	26	35	29	30	40
	L (Deflection)	9	16	23	15	22	30	22	26	35	29	30	40
25' - 0"	α _D D+α _L L (Strength)	19	11	28	20	12	22	22	16	24	23	20	28
	D+L (Deflection)	1	7	13	6	12	19	12	16	24	18	20	28
	L (Deflection)	1	7	13	6	12	19	12	16	24	18	20	28
MAXIMUM UNSHORED CONSTRUCTION CLEAR SPANS													
1span	13' - 2"	14' - 3"	15' - 1"	12' - 11"	14' - 0"	14' - 10"	12' - 8"	13' - 11"	14' - 8"	12' - 5"	13' - 9"	14' - 6"	
2span	11' - 0"	14' - 3"	17' - 1"	10' - 9"	14' - 0"	16' - 9"	10' - 6"	13' - 8"	16' - 5"	10' - 3"	13' - 5"	16' - 1"	
3span	11' - 5"	14' - 10"	17' - 8"	11' - 1"	14' - 6"	17' - 4"	10' - 10"	14' - 2"	17' - 0"	10' - 8"	13' - 11"	16' - 8"	
cantilever	5' - 10"	7' - 0"	7' - 7"	5' - 8"	6' - 10"	7' - 5"	5' - 7"	6' - 9"	7' - 4"	5' - 6"	6' - 8"	7' - 3"	
cy/100sf	1.43			1.50			1.58			1.66			

13' - 0"	α _D D+α _L L (Strength)	120	← Max. superimposed LSD factored dead + live load (psf) (governed by strength limitation)
	D+L (Deflection)	120	← Max. superimposed LSD unfactored dead + live load (psf) (governed by deflection limitation of L/240)
	L (Deflection)	120	← 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

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

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, 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

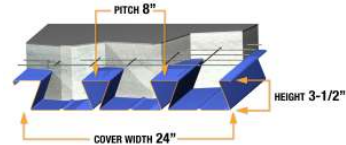
Construction spans shown based on 2" exterior bearing and 4" interior bearing width.

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 $f_y=40$ 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" (67.97)			6.75" (70.99)			7" (74.01)			7.25" (77.03)		
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)	222	260	428	233	260	438	244	258	448	255	254	456
	D+L (Deflection)	222	260	400	233	260	400	244	258	400	255	254	400
	L (Deflection)	222	260	400	233	260	400	244	258	400	255	254	400
14' - 0"	$\alpha_D D + \alpha_L L$ (Strength)	184	323	324	194	348	329	203	374	332	212	402	334
	D+L (Deflection)	184	323	324	194	348	329	203	374	332	212	400	334
	L (Deflection)	184	323	324	194	348	329	203	374	332	212	400	334
15' - 0"	$\alpha_D D + \alpha_L L$ (Strength)	154	267	296	162	288	319	170	310	343	178	334	368
	D+L (Deflection)	154	267	296	162	288	319	170	310	343	178	334	368
	L (Deflection)	154	267	296	162	288	319	170	310	343	178	334	368
16' - 0"	$\alpha_D D + \alpha_L L$ (Strength)	130	221	246	137	239	266	143	258	286	150	278	308
	D+L (Deflection)	130	221	246	137	239	266	143	258	286	150	278	308
	L (Deflection)	130	221	246	137	239	266	143	258	286	150	278	308
17' - 0"	$\alpha_D D + \alpha_L L$ (Strength)	110	183	205	116	198	222	121	214	240	127	231	258
	D+L (Deflection)	110	183	205	116	198	222	121	214	240	127	231	258
	L (Deflection)	110	183	205	116	198	222	121	214	240	127	231	258
18' - 0"	$\alpha_D D + \alpha_L L$ (Strength)	93	151	170	98	164	185	103	178	200	108	193	216
	D+L (Deflection)	93	151	170	98	164	185	103	178	200	108	193	216
	L (Deflection)	93	151	170	98	164	185	103	178	200	108	193	216
19' - 0"	$\alpha_D D + \alpha_L L$ (Strength)	79	124	141	83	135	154	87	147	167	92	160	181
	D+L (Deflection)	79	124	141	83	135	154	87	147	167	92	160	181
	L (Deflection)	79	124	141	83	135	154	87	147	167	92	160	181
20' - 0"	$\alpha_D D + \alpha_L L$ (Strength)	67	101	116	61	111	127	64	121	139	67	132	151
	D+L (Deflection)	67	101	116	61	111	127	64	121	139	67	132	151
	L (Deflection)	67	101	116	61	111	127	64	121	139	67	132	151
21' - 0"	$\alpha_D D + \alpha_L L$ (Strength)	48	81	95	50	89	104	53	98	114	56	108	125
	D+L (Deflection)	48	81	95	50	89	104	53	98	114	56	108	125
	L (Deflection)	48	81	95	50	89	104	53	98	114	56	108	125
22' - 0"	$\alpha_D D + \alpha_L L$ (Strength)	39	64	76	47	71	84	49	79	93	52	87	102
	D+L (Deflection)	39	64	76	47	71	84	49	79	93	52	87	102
	L (Deflection)	39	64	76	47	71	84	49	79	93	52	87	102
23' - 0"	$\alpha_D D + \alpha_L L$ (Strength)	37	49	60	39	55	67	41	62	74	43	69	82
	D+L (Deflection)	37	49	60	39	55	67	41	62	74	43	69	82
	L (Deflection)	37	49	60	39	55	67	41	62	74	43	69	82
24' - 0"	$\alpha_D D + \alpha_L L$ (Strength)	30	35	46	32	41	52	34	47	58	35	53	65
	D+L (Deflection)	30	35	46	32	41	52	34	47	58	35	53	65
	L (Deflection)	30	35	46	32	41	52	34	47	58	35	53	65
25' - 0"	$\alpha_D D + \alpha_L L$ (Strength)	25	24	33	26	28	38	27	33	44	29	39	50
	D+L (Deflection)	25	24	33	26	28	38	27	33	44	29	39	50
	L (Deflection)	25	24	33	26	28	38	27	33	44	29	39	50

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

13' - 0"	$\alpha_D D + \alpha_L L$ (Strength)	222	← Max. superimposed LSD factored dead + live load (psf) (governed by strength limitation)
	D+L (Deflection)	222	← Max. superimposed LSD unfactored dead + live load (psf) (governed by deflection limitation of L/240)
	L (Deflection)	222	← 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

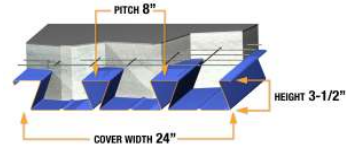
Construction spans shown based on 2" exterior bearing and 4" interior bearing width.

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.

145 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" (80.05)			7.75" (83.07)			8" (86.09)			8.25" (89.11)		
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)	266	249	463	277	500	469	288	500	473	299	500	476
	D+L (Deflection)	266	249	400	277	400	400	288	400	400	299	400	400
	L (Deflection)	266	249	400	277	400	400	288	400	400	299	400	400
14' - 0"	$\alpha_D D + \alpha_L L$ (Strength)	221	430	473	230	453	500	240	471	500	249	489	500
	D+L (Deflection)	221	400	400	230	400	400	240	400	400	249	400	400
	L (Deflection)	221	400	400	230	400	400	240	400	400	249	400	400
15' - 0"	$\alpha_D D + \alpha_L L$ (Strength)	185	358	395	193	383	422	201	405	450	209	421	480
	D+L (Deflection)	185	358	395	193	383	400	201	400	400	209	400	400
	L (Deflection)	185	358	395	193	383	400	201	400	400	209	400	400
16' - 0"	$\alpha_D D + \alpha_L L$ (Strength)	156	298	331	163	320	354	169	342	378	176	365	404
	D+L (Deflection)	156	298	331	163	320	354	169	342	378	176	365	400
	L (Deflection)	156	298	331	163	320	354	169	342	378	176	365	400
17' - 0"	$\alpha_D D + \alpha_L L$ (Strength)	132	249	278	138	268	298	143	287	319	149	307	341
	D+L (Deflection)	132	249	278	138	268	298	143	287	319	149	307	341
	L (Deflection)	132	249	278	138	268	298	143	287	319	149	307	341
18' - 0"	$\alpha_D D + \alpha_L L$ (Strength)	112	208	233	117	224	251	122	241	269	114	258	288
	D+L (Deflection)	112	208	233	117	224	251	122	241	269	114	258	288
	L (Deflection)	112	208	233	117	224	251	122	241	269	114	258	288
19' - 0"	$\alpha_D D + \alpha_L L$ (Strength)	84	173	196	88	187	211	92	201	227	95	216	243
	D+L (Deflection)	84	173	196	88	187	211	92	201	227	95	216	243
	L (Deflection)	84	173	196	88	187	211	92	201	227	95	216	243
20' - 0"	$\alpha_D D + \alpha_L L$ (Strength)	70	143	163	73	155	177	83	168	191	86	181	205
	D+L (Deflection)	70	143	163	73	155	177	83	168	191	86	181	205
	L (Deflection)	70	143	163	73	155	177	83	168	191	86	181	205
21' - 0"	$\alpha_D D + \alpha_L L$ (Strength)	64	118	136	67	128	147	70	139	160	73	151	172
	D+L (Deflection)	64	118	136	67	128	147	70	139	160	73	151	172
	L (Deflection)	64	118	136	67	128	147	70	139	160	73	151	172
22' - 0"	$\alpha_D D + \alpha_L L$ (Strength)	54	96	112	56	105	122	59	114	133	61	124	144
	D+L (Deflection)	54	96	112	56	105	122	59	114	133	61	124	144
	L (Deflection)	54	96	112	56	105	122	59	114	133	61	124	144
23' - 0"	$\alpha_D D + \alpha_L L$ (Strength)	45	76	91	47	84	100	49	93	109	51	101	119
	D+L (Deflection)	45	76	91	47	84	100	49	93	109	51	101	119
	L (Deflection)	45	76	91	47	84	100	49	93	109	51	101	119
24' - 0"	$\alpha_D D + \alpha_L L$ (Strength)	37	59	73	39	66	80	41	104	89	42	113	97
	D+L (Deflection)	37	59	73	39	66	80	41	104	89	42	113	97
	L (Deflection)	37	59	73	39	66	80	41	104	89	42	113	97
25' - 0"	$\alpha_D D + \alpha_L L$ (Strength)	30	73	56	32	80	63	33	87	70	35	95	78
	D+L (Deflection)	30	73	56	32	80	63	33	87	70	35	95	78
	L (Deflection)	30	73	56	32	80	63	33	87	70	35	95	78

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

13' - 0"	$\alpha_D D + \alpha_L L$ (Strength)	266	← Max. superimposed LSD factored dead + live load (psf) (governed by strength limitation)
	D+L (Deflection)	266	← Max. superimposed LSD unfactored dead + live load (psf) (governed by deflection limitation of L/240)
	L (Deflection)	266	← 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.

145 PCF CONCRETE