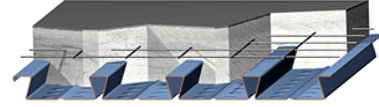


SECTION PROPERTIES Fy = 276 MPa

GAGE	Wd	I <sub>D</sub>	Sp	Sn	Rbe			Rbi		
					51 mm	76 mm	102 mm	102 mm	127 mm	152 mm
22	10.90	555157	393153	383867	14.13	16.26	18.07	26.73	28.82	30.72
20	13.22	675466	493114	473586	20.11	23.06	25.54	37.95	40.82	43.43
18	17.48	897920	659170	661491	33.50	38.16	42.09	63.00	67.53	71.63
16	22.01	1136033	838335	843114	51.08	57.86	63.58	95.82	102.40	108.34



SIMPLE SPAN - MAXIMUM SUPERIMPOSED LSD LOADS, (kPa), NO STUDS ON BEAMS																	
h (Wc)		102 mm (171.88)				108 mm (183.58)				114 mm (195.28)				121 mm (206.97)			
Span (mm)	Load Combinations	GAGE															
		22	20	18	16	22	20	18	16	22	20	18	16	22	20	18	16
2430	$\alpha_D D + \alpha_L L$ (Strength)	14.75	18.30	23.94	23.94	15.78	19.95	23.94	23.94	16.20	21.63	23.94	23.94	16.51	23.34	23.94	23.94
	D+L (Deflection)	14.75	18.30	19.15	19.15	15.78	19.15	19.15	19.15	16.20	19.15	19.15	19.15	16.51	19.15	19.15	19.15
	L (Deflection)	14.75	18.30	19.15	19.15	15.78	19.15	19.15	19.15	16.20	19.15	19.15	19.15	16.51	19.15	19.15	19.15
2740	$\alpha_D D + \alpha_L L$ (Strength)	10.36	14.07	21.33	23.94	11.32	14.54	22.49	23.94	12.30	14.91	23.57	23.94	13.30	15.17	23.94	23.94
	D+L (Deflection)	10.36	14.07	19.15	19.15	11.32	14.54	19.15	19.15	12.30	14.91	19.15	19.15	13.30	15.17	19.15	19.15
	L (Deflection)	10.36	14.07	16.64	18.35	11.32	14.54	19.15	19.15	12.30	14.91	19.15	19.15	13.30	15.17	19.15	19.15
3040	$\alpha_D D + \alpha_L L$ (Strength)	8.22	10.72	15.20	21.18	8.99	11.72	15.81	22.36	9.77	12.75	16.34	23.47	10.57	13.79	16.77	23.94
	D+L (Deflection)	8.22	10.72	15.20	19.15	8.99	11.72	15.81	19.15	9.77	12.75	16.34	19.15	10.57	13.79	16.77	19.15
	L (Deflection)	8.22	10.72	12.13	13.38	8.99	11.72	14.27	15.71	9.77	12.75	16.34	18.31	10.57	13.79	16.77	19.15
3350	$\alpha_D D + \alpha_L L$ (Strength)	6.62	8.79	10.66	15.63	7.25	9.62	14.79	16.32	7.89	10.46	16.09	16.93	8.54	11.33	17.42	17.43
	D+L (Deflection)	6.62	8.79	10.66	15.08	7.25	9.62	14.10	16.32	7.89	10.46	16.09	16.93	8.54	11.33	17.42	17.43
	L (Deflection)	6.62	8.12	9.11	10.05	7.25	9.56	10.72	11.81	7.89	10.46	12.50	13.76	8.54	11.33	14.47	15.90
3650	$\alpha_D D + \alpha_L L$ (Strength)	5.40	7.30	11.03	11.94	5.92	8.00	12.18	13.39	6.45	8.71	13.26	14.95	6.99	9.44	14.36	16.61
	D+L (Deflection)	5.40	7.30	8.67	9.71	5.92	8.00	10.41	11.62	6.45	8.71	12.35	13.76	6.99	9.44	14.36	16.14
	L (Deflection)	5.40	6.26	7.02	7.74	5.92	7.37	8.26	9.09	6.45	8.60	9.63	10.60	6.99	9.44	11.14	12.26
3960	$\alpha_D D + \alpha_L L$ (Strength)	4.45	6.01	8.97	9.73	4.88	6.59	10.10	10.94	5.32	7.19	11.06	12.24	5.77	7.79	11.98	13.65
	D+L (Deflection)	4.45	5.56	6.42	7.23	4.88	6.59	7.77	8.71	5.32	7.19	9.27	10.37	5.77	7.79	10.94	12.21
	L (Deflection)	4.45	4.92	5.52	6.09	4.88	5.79	6.49	7.15	5.32	6.76	7.57	8.33	5.77	7.79	8.76	9.62
4260	$\alpha_D D + \alpha_L L$ (Strength)	3.69	4.99	7.33	7.98	4.05	5.48	8.28	9.00	4.43	5.98	9.31	10.10	4.81	6.48	10.10	11.25
	D+L (Deflection)	3.68	4.09	4.77	5.41	4.05	5.03	5.82	6.57	4.43	5.98	7.01	7.87	4.81	6.48	8.32	9.34
	L (Deflection)	3.65	3.94	4.42	4.87	4.05	4.64	5.20	5.73	4.43	5.42	6.06	6.67	4.81	6.27	7.02	7.71
4570	$\alpha_D D + \alpha_L L$ (Strength)	3.06	4.16	6.01	6.57	3.37	4.58	6.82	7.44	3.69	5.00	7.69	8.37	4.01	5.43	8.57	9.38
	D+L (Deflection)	2.65	2.99	3.53	4.04	3.33	3.72	4.37	4.96	3.69	4.56	5.30	6.00	4.01	5.43	6.35	7.18
	L (Deflection)	2.65	2.99	3.53	3.96	3.33	3.72	4.23	4.66	3.69	4.40	4.93	5.42	4.01	5.10	5.71	6.27
4870	$\alpha_D D + \alpha_L L$ (Strength)	2.52	3.49	4.93	5.41	2.78	3.84	5.62	6.15	3.05	4.20	6.36	6.95	3.32	4.57	7.15	7.80
	D+L (Deflection)	1.87	2.14	2.58	2.99	2.41	2.73	3.25	3.73	3.02	3.39	4.00	4.57	3.32	4.14	4.85	5.51
	L (Deflection)	1.87	2.14	2.58	2.99	2.41	2.73	3.25	3.73	3.02	3.39	4.00	4.47	3.32	4.14	4.70	5.17
5180	$\alpha_D D + \alpha_L L$ (Strength)	2.07	2.93	4.04	4.46	2.04	3.23	4.63	5.09	2.25	3.54	5.26	5.78	2.46	3.85	5.94	6.51
	D+L (Deflection)	1.26	1.48	1.84	2.18	1.69	1.95	2.38	2.78	2.18	2.49	2.99	3.46	2.46	3.09	3.67	4.21
	L (Deflection)	1.26	1.48	1.84	2.18	1.69	1.95	2.38	2.78	2.18	2.49	2.99	3.46	2.46	3.09	3.67	4.21
5480	$\alpha_D D + \alpha_L L$ (Strength)	1.46	2.46	3.29	3.65	1.63	2.72	3.79	4.20	1.81	2.98	4.34	4.79	1.99	3.26	4.93	5.41
	D+L (Deflection)	0.78	0.96	1.26	1.54	1.13	1.34	1.69	2.02	1.52	1.77	2.19	2.57	1.97	2.26	2.75	3.21
	L (Deflection)	0.78	0.96	1.26	1.54	1.13	1.34	1.69	2.02	1.52	1.77	2.19	2.57	1.97	2.26	2.75	3.21
5790	$\alpha_D D + \alpha_L L$ (Strength)	1.14	2.06	2.65	2.98	1.28	2.29	3.09	3.45	1.43	2.24	3.56	3.96	1.58	2.46	4.07	4.50
	D+L (Deflection)	0.39	0.55	0.79	1.02	0.67	0.85	1.15	1.42	0.99	1.20	1.55	1.87	1.35	1.60	2.01	2.39
	L (Deflection)	0.39	0.55	0.79	1.02	0.67	0.85	1.15	1.42	0.99	1.20	1.55	1.87	1.35	1.60	2.01	2.39
6090	$\alpha_D D + \alpha_L L$ (Strength)	0.87	1.48	2.11	2.40	0.99	1.65	2.49	2.80	1.11	1.84	2.90	3.25	1.24	2.03	3.34	3.73
	D+L (Deflection)	0.08	0.21	0.41	0.60	0.30	0.45	0.70	0.93	0.56	0.74	1.03	1.30	0.86	1.07	1.41	1.72
	L (Deflection)	0.08	0.21	0.41	0.60	0.30	0.45	0.70	0.93	0.56	0.74	1.03	1.30	0.86	1.07	1.41	1.72
MAXIMUM UNSHORED CONSTRUCTION CLEAR SPANS (mm)																	
1span	2600	3005	3360	3610	2545	2945	3295	3540	2495	2885	3235	3480	2450	2830	3175	3415	
2span	2605	3000	3665	4115	2550	2935	3590	4035	2495	2875	3520	3970	2445	2815	3455	3890	
3span	2695	3105	3780	4230	2640	3040	3710	4165	2585	2975	3640	4105	2530	2915	3570	4025	
cantilever	930	1090	1400	1660	915	1075	1380	1630	905	1065	1355	1605	895	1050	1335	1580	
Concrete Volume (m <sup>3</sup> /m <sup>2</sup> )	0.093				0.100				0.106				0.112				

2430	$\alpha_D D + \alpha_L L$ (Strength)	14.75
	D+L (Deflection)	14.75
	L (Deflection)	14.75

- ← Max. superimposed LSD factored dead + live load (kPa) (governed by strength limitation)
- ← Max. superimposed LSD unfactored dead + live load (kPa) (governed by deflection limitation of L/240)
- ← Max. superimposed LSD unfactored live load (kPa) (governed by deflection limitation of L/360)
- ← Vertical load span (center to center spacing)

- Wd Weight of deck (uncoated), kg/m<sup>2</sup>
- I<sub>D</sub> Moment of inertia for deflection per foot of deck width mm<sup>4</sup>/m
- Sp Section modulus for positive bending per foot of deck width, mm<sup>3</sup>/m
- Sn Section modulus for negative bending per foot of deck width, mm<sup>3</sup>/m
- f<sub>c</sub> 21 MPa
- $\alpha_D, \alpha_L$  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, kN/m
- Rbi Allowable interior web crippling value per foot of deck, kN/m
- h Total height of concrete slab, mm
- Wc Weight of concrete (neglecting deflection), kg/m<sup>2</sup>
- D Uniform dead load, kPa
- L Uniform live load, kPa

Construction spans shown based on 38 mm exterior bearing and 76 mm interior bearing width.

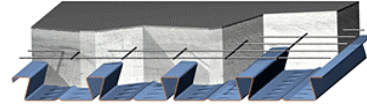
The section property table is based on 2001 AISI's Cold-Formed Steel Design Manual, 2004 Supplement. The live loads and unshored construction clear spans are based on the Canadian Sheet Steel Building Institute's Standard for Composite Steel Deck (CSSBI 12M-06), September 2006 and Criteria for the Design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

1840 KG/M<sup>3</sup> CONCRETE

SECTION PROPERTIES

Fy = 276 MPa

GAGE	Wd	I <sub>D</sub>	Sp	Sn	Rbe			Rbi		
					51 mm	76 mm	102 mm	102 mm	127 mm	152 mm
22	10.90	555157	393153	383867	14.13	16.26	18.07	26.73	28.82	30.72
20	13.22	675466	493114	473586	20.11	23.06	25.54	37.95	40.82	43.43
18	17.48	897920	659170	661491	33.50	38.16	42.09	63.00	67.53	71.63
16	22.01	1136033	838335	843114	51.08	57.86	63.58	95.82	102.40	108.34



SIMPLE SPAN - MAXIMUM SUPERIMPOSED LSD LOADS, (kPa), NO STUDS ON BEAMS																	
h (Wc)		127 mm (218.67)				133 mm (230.37)				140 mm (242.07)				146 mm (253.76)			
Span (mm)	Load Combinations	GAGE															
		22	20	18	16	22	20	18	16	22	20	18	16	22	20	18	16
2430	α <sub>D</sub> D + α <sub>L</sub> L (Strength)	18.38	23.94	23.94	23.94	19.69	23.94	23.94	23.94	21.00	23.94	23.94	23.94	22.32	23.94	23.94	23.94
	D+L (Deflection)	18.38	19.15	19.15	19.15	19.15	19.15	19.15	19.15	19.15	19.15	19.15	19.15	19.15	19.15	19.15	19.15
	L (Deflection)	18.38	19.15	19.15	19.15	19.15	19.15	19.15	19.15	19.15	19.15	19.15	19.15	19.15	19.15	19.15	19.15
2740	α <sub>D</sub> D + α <sub>L</sub> L (Strength)	14.31	15.32	23.94	23.94	15.33	19.70	23.94	23.94	16.36	21.03	23.94	23.94	17.39	22.37	23.94	23.94
	D+L (Deflection)	14.31	15.32	19.15	19.15	15.33	19.15	19.15	19.15	16.36	19.15	19.15	19.15	17.39	19.15	19.15	19.15
	L (Deflection)	14.31	15.32	19.15	19.15	15.33	19.15	19.15	19.15	16.36	19.15	19.15	19.15	17.39	19.15	19.15	19.15
3040	α <sub>D</sub> D + α <sub>L</sub> L (Strength)	11.38	14.84	17.09	23.94	12.19	15.91	17.29	23.94	13.02	16.99	23.94	23.94	13.85	18.08	23.94	23.94
	D+L (Deflection)	11.38	14.84	17.09	19.15	12.19	15.91	17.29	19.15	13.02	16.99	19.15	19.15	13.85	18.08	19.15	19.15
	L (Deflection)	11.38	14.84	17.09	19.15	12.19	15.91	17.29	19.15	13.02	16.99	19.15	19.15	13.85	18.08	19.15	19.15
3350	α <sub>D</sub> D + α <sub>L</sub> L (Strength)	9.20	12.20	18.77	17.86	9.86	13.08	20.13	23.94	10.54	13.98	21.51	23.94	11.22	14.88	22.90	23.94
	D+L (Deflection)	9.20	12.20	18.77	17.86	9.86	13.08	19.15	19.15	10.54	13.98	19.15	19.15	11.22	14.88	19.15	19.15
	L (Deflection)	9.20	12.20	16.62	17.86	9.86	13.08	18.98	19.15	10.54	13.98	19.15	19.15	11.22	14.88	19.15	19.15
3650	α <sub>D</sub> D + α <sub>L</sub> L (Strength)	7.53	10.17	15.48	18.35	8.08	10.91	16.61	20.20	8.64	11.66	17.76	22.13	9.20	12.42	18.91	23.94
	D+L (Deflection)	7.53	10.17	15.48	18.35	8.08	10.91	16.61	19.15	8.64	11.66	17.76	19.15	9.20	12.42	18.91	19.15
	L (Deflection)	7.53	10.17	12.81	14.08	8.08	10.91	14.62	16.06	8.64	11.66	16.59	18.22	9.20	12.42	18.73	19.15
3960	α <sub>D</sub> D + α <sub>L</sub> L (Strength)	6.23	8.40	12.92	15.09	6.69	9.02	13.87	16.64	7.16	9.65	14.83	18.26	7.63	10.28	15.81	19.95
	D+L (Deflection)	6.23	8.40	12.79	14.24	6.69	9.02	13.87	16.47	7.16	9.65	14.83	18.26	7.63	10.28	15.81	19.15
	L (Deflection)	6.23	8.40	10.07	11.07	6.69	9.02	11.50	12.63	7.16	9.65	13.05	14.33	7.63	10.28	14.73	16.17
4260	α <sub>D</sub> D + α <sub>L</sub> L (Strength)	5.19	7.00	10.89	12.51	5.58	7.52	11.70	13.81	5.98	8.05	12.52	15.18	6.37	8.58	13.34	16.62
	D+L (Deflection)	5.19	7.00	9.78	10.93	5.58	7.52	11.38	12.70	5.98	8.05	12.52	14.62	6.37	8.58	13.34	16.62
	L (Deflection)	5.19	7.00	8.06	8.86	5.58	7.52	9.21	10.12	5.98	8.05	10.45	11.48	6.37	8.58	11.79	12.95
4570	α <sub>D</sub> D + α <sub>L</sub> L (Strength)	4.34	5.87	9.26	10.42	4.67	6.31	9.95	11.53	5.00	6.76	10.65	12.71	4.99	7.21	11.35	13.93
	D+L (Deflection)	4.34	5.87	7.51	8.45	4.67	6.31	8.79	9.86	5.00	6.76	10.19	11.40	4.99	7.21	11.35	13.08
	L (Deflection)	4.34	5.86	6.56	7.21	4.67	6.31	7.49	8.22	5.00	6.76	8.49	9.33	4.99	7.21	9.59	10.53
4870	α <sub>D</sub> D + α <sub>L</sub> L (Strength)	3.30	4.94	7.92	8.71	3.56	5.32	8.51	9.67	3.83	5.70	9.12	10.68	4.10	6.09	9.73	11.73
	D+L (Deflection)	3.30	4.94	5.78	6.54	3.56	5.32	6.82	7.69	3.83	5.70	7.95	8.94	4.10	6.09	9.19	10.30
	L (Deflection)	3.30	4.83	5.40	5.94	3.56	5.32	6.17	6.78	3.83	5.70	7.00	7.69	4.10	6.09	7.90	8.67
5180	α <sub>D</sub> D + α <sub>L</sub> L (Strength)	2.68	4.18	6.66	7.30	2.91	4.50	7.32	8.12	3.13	4.83	7.85	9.00	3.36	5.16	8.38	9.91
	D+L (Deflection)	2.68	3.77	4.44	5.06	2.91	4.50	5.28	6.00	3.13	4.83	6.20	7.02	3.36	5.16	7.21	8.14
	L (Deflection)	2.68	3.77	4.44	4.95	2.91	4.50	5.14	5.65	3.13	4.83	5.84	6.41	3.36	5.16	6.59	7.23
5480	α <sub>D</sub> D + α <sub>L</sub> L (Strength)	2.17	3.53	5.55	6.11	2.36	3.49	6.22	6.83	2.55	3.76	6.79	7.59	2.74	4.03	7.25	8.38
	D+L (Deflection)	2.17	2.81	3.37	3.89	2.36	3.42	4.06	4.66	2.55	3.76	4.82	5.51	2.74	4.03	5.66	6.43
	L (Deflection)	2.17	2.81	3.37	3.89	2.36	3.42	4.06	4.66	2.55	3.76	4.82	5.40	2.74	4.03	5.55	6.09
5790	α <sub>D</sub> D + α <sub>L</sub> L (Strength)	1.74	2.68	4.61	5.10	1.89	2.91	5.19	5.73	2.05	3.14	5.80	6.39	2.21	3.37	6.29	7.09
	D+L (Deflection)	1.74	2.05	2.52	2.96	1.89	2.55	3.09	3.59	2.05	3.11	3.72	4.29	2.21	3.37	4.41	5.06
	L (Deflection)	1.74	2.05	2.52	2.96	1.89	2.55	3.09	3.59	2.05	3.11	3.72	4.29	2.21	3.37	4.41	5.06
6090	α <sub>D</sub> D + α <sub>L</sub> L (Strength)	1.37	2.22	3.81	4.25	1.50	2.41	4.31	4.80	1.63	2.61	4.84	5.38	1.77	2.81	5.40	5.99
	D+L (Deflection)	1.19	1.43	1.83	2.20	1.50	1.85	2.30	2.73	1.63	2.31	2.83	3.31	1.77	2.81	3.40	3.95
	L (Deflection)	1.19	1.43	1.83	2.20	1.50	1.85	2.30	2.73	1.63	2.31	2.83	3.31	1.77	2.81	3.40	3.95
MAXIMUM UNSHORED CONSTRUCTION CLEAR SPANS (mm)																	
1span	2410	2775	3125	3360	2365	2730	3070	3305	2325	2680	3025	3260	2290	2635	2985	3215	
2span	2395	2765	3390	3835	2350	2715	3330	3775	2305	2665	3275	3720	2265	2620	3220	3665	
3span	2480	2860	3510	3960	2430	2805	3445	3905	2385	2760	3390	3845	2345	2710	3330	3790	
cantilever	885	1035	1315	1560	875	1020	1300	1535	865	1010	1285	1510	855	1000	1265	1495	
Concrete Volume (m <sup>3</sup> /m <sup>2</sup> )	0.119				0.125				0.131				0.138				

2430	α <sub>D</sub> D + α <sub>L</sub> L (Strength)	18.38	← Max. superimposed LSD factored dead + live load (kPa) (governed by strength limitation)
	D+L (Deflection)	18.38	← Max. superimposed LSD unfactored dead + live load (kPa) (governed by deflection limitation of L/240)
	L (Deflection)	18.38	← Max. superimposed LSD unfactored live load (kPa) (governed by deflection limitation of L/360)

↑ Vertical load span (center to center spacing)

- Wd Weight of deck (uncoated), kg/m<sup>2</sup>
- I<sub>D</sub> Moment of inertia for deflection per foot of deck width mm<sup>4</sup>/m
- Sp Section modulus for positive bending per foot of deck width, mm<sup>3</sup>/m
- Sn Section modulus for negative bending per foot of deck width, mm<sup>3</sup>/m
- f<sub>c</sub> 21 MPa
- α<sub>D</sub>, α<sub>L</sub> 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, kN/m
- Rbi Allowable interior web crippling value per foot of deck, kN/m
- h Total height of concrete slab, mm
- Wc Weight of concrete (neglecting deflection), kg/m<sup>2</sup>
- D Uniform dead load, kPa
- L Uniform live load, kPa

Construction spans shown based on 38 mm exterior bearing and 76 mm interior bearing width.

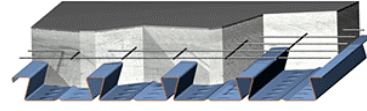
The section property table is based on 2001 AISI's Cold-Formed Steel Design Manual, 2004 Supplement. The live loads and unshored construction clear spans are based on the Canadian Sheet Steel Building Institute's Standard for Composite Steel Deck (CSSBI 12M-06), September 2006 and Criteria for the Design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

1840 KG/M<sup>3</sup> CONCRETE

SECTION PROPERTIES

Fy = 276 MPa

GAGE	Wd	I <sub>D</sub>	Sp	Sn	Rbe			Rbi		
					51 mm	76 mm	102 mm	102 mm	127 mm	152 mm
22	10.90	555157	393153	383867	14.13	16.26	18.07	26.73	28.82	30.72
20	13.22	675466	493114	473586	20.11	23.06	25.54	37.95	40.82	43.43
18	17.48	897920	659170	661491	33.50	38.16	42.09	63.00	67.53	71.63
16	22.01	1136033	838335	843114	51.08	57.86	63.58	95.82	102.40	108.34



SIMPLE SPAN - MAXIMUM SUPERIMPOSED LSD LOADS, (kPa), NO STUDS ON BEAMS																	
h (Wc)		152 mm (265.46)				159 mm (277.16)				165 mm (288.86)				171 mm (300.55)			
Span (mm)	Load Combinations	GAGE															
		22	20	18	16	22	20	18	16	22	20	18	16	22	20	18	16
2430	$\alpha_D D + \alpha_L L$ (Strength)	23.65	23.94	23.94	23.94	23.94	23.94	23.94	23.94	23.94	23.94	23.94	23.94	23.94	23.94	23.94	23.94
	D+L (Deflection)	19.15	19.15	19.15	19.15	19.15	19.15	19.15	19.15	19.15	19.15	19.15	19.15	19.15	19.15	19.15	19.15
	L (Deflection)	19.15	19.15	19.15	19.15	19.15	19.15	19.15	19.15	19.15	19.15	19.15	19.15	19.15	19.15	19.15	19.15
2740	$\alpha_D D + \alpha_L L$ (Strength)	18.44	23.72	23.94	23.94	19.49	23.94	23.94	23.94	20.55	23.94	23.94	23.94	21.61	23.94	23.94	23.94
	D+L (Deflection)	18.44	19.15	19.15	19.15	19.15	19.15	19.15	19.15	19.15	19.15	19.15	19.15	19.15	19.15	19.15	19.15
	L (Deflection)	18.44	19.15	19.15	19.15	19.15	19.15	19.15	19.15	19.15	19.15	19.15	19.15	19.15	19.15	19.15	19.15
3040	$\alpha_D D + \alpha_L L$ (Strength)	14.69	19.18	23.94	23.94	15.53	20.28	23.94	23.94	16.38	21.39	23.94	23.94	17.23	22.51	23.94	23.94
	D+L (Deflection)	14.69	19.15	19.15	19.15	15.53	19.15	19.15	19.15	16.38	19.15	19.15	19.15	17.23	19.15	19.15	19.15
	L (Deflection)	14.69	19.15	19.15	19.15	15.53	19.15	19.15	19.15	16.38	19.15	19.15	19.15	17.23	19.15	19.15	19.15
3350	$\alpha_D D + \alpha_L L$ (Strength)	11.90	15.79	23.94	23.94	12.59	16.70	23.94	23.94	13.28	17.62	23.94	23.94	13.98	18.54	23.94	23.94
	D+L (Deflection)	11.90	15.79	19.15	19.15	12.59	16.70	19.15	19.15	13.28	17.62	19.15	19.15	13.98	18.54	19.15	19.15
	L (Deflection)	11.90	15.79	19.15	19.15	12.59	16.70	19.15	19.15	13.28	17.62	19.15	19.15	13.98	18.54	19.15	19.15
3650	$\alpha_D D + \alpha_L L$ (Strength)	9.77	13.18	20.08	23.94	10.34	13.95	21.25	23.94	10.91	14.72	22.43	23.94	11.49	15.50	23.62	23.94
	D+L (Deflection)	9.77	13.18	19.15	19.15	10.34	13.95	19.15	19.15	10.91	14.72	19.15	19.15	11.49	15.50	19.15	19.15
	L (Deflection)	9.77	13.18	19.15	19.15	10.34	13.95	19.15	19.15	10.91	14.72	19.15	19.15	11.49	15.50	19.15	19.15
3960	$\alpha_D D + \alpha_L L$ (Strength)	8.10	10.92	16.79	21.71	8.58	11.56	17.77	23.55	9.06	12.20	18.77	23.94	9.55	12.85	19.77	23.94
	D+L (Deflection)	8.10	10.92	16.79	19.15	8.58	11.56	17.77	19.15	9.06	12.20	18.77	19.15	9.55	12.85	19.15	19.15
	L (Deflection)	8.10	10.92	16.54	18.16	8.58	11.56	17.77	19.15	9.06	12.20	18.77	19.15	9.55	12.85	19.15	19.15
4260	$\alpha_D D + \alpha_L L$ (Strength)	6.78	9.12	14.17	18.12	7.18	9.66	15.01	19.67	7.59	10.20	15.86	21.28	7.58	10.75	16.71	22.96
	D+L (Deflection)	6.78	9.12	14.17	18.12	7.18	9.66	15.01	19.15	7.59	10.20	15.86	19.15	7.58	10.75	16.71	19.15
	L (Deflection)	6.78	9.12	13.24	14.54	7.18	9.66	14.80	16.24	7.59	10.20	15.86	18.07	7.58	10.75	16.71	19.15
4570	$\alpha_D D + \alpha_L L$ (Strength)	5.32	7.67	12.07	15.21	5.64	8.13	12.79	16.54	5.97	8.59	13.51	17.93	6.31	9.05	14.24	19.36
	D+L (Deflection)	5.32	7.67	12.07	14.90	5.64	8.13	12.79	16.54	5.97	8.59	13.51	17.93	6.31	9.05	14.24	19.15
	L (Deflection)	5.32	7.67	10.77	11.82	5.64	8.13	12.03	13.21	5.97	8.59	13.39	14.69	6.31	9.05	14.24	16.28
4870	$\alpha_D D + \alpha_L L$ (Strength)	4.37	6.48	10.34	12.84	4.65	6.87	10.97	13.99	4.92	7.27	11.59	15.18	5.20	7.67	12.22	16.42
	D+L (Deflection)	4.37	6.48	10.34	11.78	4.65	6.87	10.97	13.38	4.92	7.27	11.59	15.10	5.20	7.67	12.22	16.42
	L (Deflection)	4.37	6.48	8.87	9.74	4.65	6.87	9.91	10.88	4.92	7.27	11.03	12.11	5.20	7.67	12.22	13.41
5180	$\alpha_D D + \alpha_L L$ (Strength)	3.59	5.13	8.92	10.87	3.82	5.45	9.46	11.87	4.05	5.77	10.00	12.90	4.29	6.10	10.55	13.98
	D+L (Deflection)	3.59	5.13	8.31	9.35	3.82	5.45	9.46	10.67	4.05	5.77	10.00	12.09	4.29	6.10	10.55	13.61
	L (Deflection)	3.59	5.13	7.40	8.12	3.82	5.45	8.27	9.07	4.05	5.77	9.20	10.09	4.29	6.10	10.19	11.18
5480	$\alpha_D D + \alpha_L L$ (Strength)	2.93	4.30	7.72	9.22	3.13	4.58	8.19	10.09	3.33	4.86	8.67	10.99	3.52	5.14	9.14	11.93
	D+L (Deflection)	2.93	4.30	6.57	7.44	3.13	4.58	7.55	8.52	3.33	4.86	8.61	9.70	3.52	5.14	9.14	10.96
	L (Deflection)	2.93	4.30	6.23	6.84	3.13	4.58	6.96	7.64	3.33	4.86	7.75	8.50	3.52	5.14	8.59	9.42
5790	$\alpha_D D + \alpha_L L$ (Strength)	2.38	3.61	6.71	7.82	2.54	3.84	7.12	8.58	2.71	4.08	7.54	9.38	2.88	4.32	7.96	10.20
	D+L (Deflection)	2.38	3.61	5.17	5.90	2.54	3.84	5.99	6.81	2.71	4.08	6.87	7.79	2.88	4.32	7.83	8.85
	L (Deflection)	2.38	3.61	5.17	5.82	2.54	3.84	5.92	6.50	2.71	4.08	6.59	7.23	2.88	4.32	7.30	8.01
6090	$\alpha_D D + \alpha_L L$ (Strength)	1.90	3.01	5.84	6.63	2.04	3.21	6.21	7.30	2.18	3.42	6.57	8.00	2.32	3.63	6.52	8.73
	D+L (Deflection)	1.90	3.01	4.03	4.66	2.04	3.21	4.72	5.42	2.18	3.42	5.46	6.24	2.32	3.63	6.27	7.13
	L (Deflection)	1.90	3.01	4.03	4.66	2.04	3.21	4.72	5.42	2.18	3.42	5.46	6.20	2.32	3.63	6.26	6.87
MAXIMUM UNSHORED CONSTRUCTION CLEAR SPANS (mm)																	
1span	2255	2595	2940	3165	2220	2555	2900	3125	2190	2520	2865	3085	2160	2480	2830	3050	
2span	2220	2575	3170	3610	2185	2535	3120	3555	2150	2490	3070	3500	2110	2450	3025	3470	
3span	2300	2665	3280	3730	2260	2620	3230	3675	2225	2580	3180	3620	2190	2535	3130	3585	
cantilever	845	990	1250	1470	840	975	1235	1455	830	965	1220	1435	820	955	1205	1420	
Concrete Volume (m <sup>3</sup> /m <sup>2</sup> )	0.144				0.150				0.157				0.163				

2430	$\alpha_D D + \alpha_L L$ (Strength)	23.65	← Max. superimposed LSD factored dead + live load (kPa) (governed by strength limitation)
	D+L (Deflection)	19.15	← Max. superimposed LSD unfactored dead + live load (kPa) (governed by deflection limitation of L/240)
	L (Deflection)	19.15	← Max. superimposed LSD unfactored live load (kPa) (governed by deflection limitation of L/360)

- Vertical load span (center to center spacing)
- Wd Weight of deck (uncoated), kg/m<sup>2</sup>
  - I<sub>D</sub> Moment of inertia for deflection per foot of deck width mm<sup>4</sup>/m
  - Sp Section modulus for positive bending per foot of deck width, mm<sup>3</sup>/m
  - Sn Section modulus for negative bending per foot of deck width, mm<sup>3</sup>/m
  - f<sub>c</sub> 21 MPa
  - $\alpha_D, \alpha_L$  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, kN/m
  - Rbi Allowable interior web crippling value per foot of deck, kN/m
  - h Total height of concrete slab, mm
  - Wc Weight of concrete (neglecting deflection), kg/m<sup>2</sup>
  - D Uniform dead load, kPa
  - L Uniform live load, kPa

Construction spans shown based on 38 mm exterior bearing and 76 mm 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.

1840 KG/M<sup>3</sup> CONCRETE