Metal Dek Group®
a unit of CSi

VERSA-DEK® 3.5 LS FLOOR (LSD)

89 mm high x 203 mm pitch x 610 mm wide

SECTION PROPERTIES

Fy = 276 MPa

GAGE	Wd	I_D	Sp	Sn	Rbe			Rbi		
					51 mm	76 mm	102 mm	102 mm	127 mm	152 mm
20	16.25	2674779	1047270	1119646	13.52	15.50	17.17	27.53	29.61	31.50
18	21.49	3638110	1514438	1624641	22.84	26.02	28.70	45.77	49.06	52.04
16	27.07	4635309	2054255	2102870	35.16	39.83	43.77	69.69	74.47	78.80

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

h (Wc)		140 mm (216.4)			146 mm (228.1)			152 mm (239.8)			159 mm (251.5)		
Span (mm)	Load Combinations	GAGE											
		20	18	16	20	18	16	20	18	16	20	18	16
3960	$\alpha_D D+\alpha_L L$ (Strength)	7.65	12.76	17.70	7.82	13.55	18.73	7.78	14.37	20.04	7.69	14.75	21.60
	D+L (Deflection)	7.65	12.76	17.70	7.82	13.55	18.73	7.78	14.37	19.15	7.69	14.75	19.15
	L (Deflection)	7.65	12.64	14.21	7.82	13.55	15.70	7.78	14.37	17.41	7.69	14.75	19.15
4260	$\alpha_D D+\alpha_L L$ (Strength)	7.24	9.89	14.26	7.70	10.41	15.01	8.15	10.93	15.98	8.60	11.10	17.13
	D+L (Deflection)	7.24	9.89	14.26	7.70	10.41	15.01	8.15	10.93	15.98	8.60	11.10	17.13
	L (Deflection)	7.24	9.89	11.38	7.70	10.41	12.57	8.15	10.93	13.94	8.60	11.10	15.49
4570	$\alpha_D D+\alpha_L L$ (Strength)	6.09	7.58	11.48	6.47	12.91	12.02	6.86	13.66	12.71	7.24	14.42	13.53
	D+L (Deflection)	6.09	7.58	11.48	6.47	11.31	12.02	6.86	12.81	12.71	7.24	14.42	13.53
	L (Deflection)	6.09	7.58	9.25	6.47	9.18	10.22	6.86	10.25	11.34	7.24	11.43	12.60
4870	$\alpha_D D+\alpha_L L$ (Strength)	5.16	10.56	14.59	5.48	11.22	14.43	5.81	11.71	13.93	6.13	12.53	13.87
	D+L (Deflection)	5.16	7.84	9.04	5.48	8.89	10.13	5.81	10.11	11.39	6.13	11.45	12.83
	L (Deflection)	5.16	6.78	7.62	5.48	7.56	8.42	5.81	8.45	9.34	6.13	9.42	10.38
5180	$\alpha_D D+\alpha_L L$ (Strength)	4.39	9.24	12.71	4.66	9.82	12.33	4.94	9.91	11.88	5.22	10.71	11.80
	D+L (Deflection)	4.39	6.14	7.14	4.66	7.00	8.03	4.94	8.00	9.06	5.22	9.10	10.24
	L (Deflection)	4.39	5.65	6.35	4.66	6.30	7.02	4.94	7.04	7.79	5.22	7.85	8.65
5480	$\alpha_D D+\alpha_L L$ (Strength)	3.75	8.14	11.13	3.98	8.42	10.58	4.22	8.41	10.15	4.46	9.10	10.06
	D+L (Deflection)	3.75	4.81	5.64	3.98	5.51	6.37	4.22	6.33	7.22	4.46	7.24	8.20
	L (Deflection)	3.75	4.76	5.35	3.98	5.31	5.92	4.22	5.93	6.56	4.46	6.62	7.29
5790	$\alpha_D D+\alpha_L L$ (Strength)	3.21	7.21	9.79	3.41	7.16	9.09	3.62	7.14	8.69	3.82	7.74	8.59
	D+L (Deflection)	3.07	3.74	4.44	3.41	4.32	5.04	3.62	5.00	5.74	3.82	5.76	6.56
	L (Deflection)	3.07	3.74	4.44	3.41	4.32	5.03	3.62	5.00	5.58	3.82	5.63	6.20
6090	$\alpha_D D+\alpha_L L$ (Strength)	2.75	6.41	8.50	2.93	6.09	7.82	3.11	6.05	7.45	3.29	6.57	7.34
	D+L (Deflection)	2.31	2.87	3.46	2.77	3.35	3.96	3.11	3.92	4.55	3.29	4.55	5.23
	L (Deflection)	2.31	2.87	3.46	2.77	3.35	3.96	3.11	3.92	4.55	3.29	4.55	5.23
6400	$\alpha_D D+\alpha_L L$ (Strength)	2.36	5.59	7.36	2.52	5.17	6.73	2.67	5.12	6.37	2.83	5.57	6.26
	D+L (Deflection)	1.68	2.16	2.66	2.06	2.56	3.08	2.49	3.04	3.58	2.83	3.57	4.15
	L (Deflection)	1.68	2.16	2.66	2.06	2.56	3.08	2.49	3.04	3.58	2.83	3.57	4.15
6700	$\alpha_D D+\alpha_L L$ (Strength)	2.03	4.77	6.37	2.16	4.37	5.79	2.30	4.31	5.44	2.43	4.71	5.32
	D+L (Deflection)	1.17	1.58	2.01	1.48	1.91	2.35	1.84	2.31	2.77	2.23	2.75	3.25
	L (Deflection)	1.17	1.58	2.01	1.48	1.91	2.35	1.84	2.31	2.77	2.23	2.75	3.25
7010	$\alpha_D D+\alpha_L L$ (Strength)	1.74	4.05	5.52	1.86	3.67	4.96	1.97	3.60	4.63	1.73	3.95	4.51
	D+L (Deflection)	0.73	1.09	1.46	1.00	1.37	1.75	1.29	1.70	2.10	1.63	2.08	2.50
	L (Deflection)	0.73	1.09	1.46	1.00	1.37	1.75	1.29	1.70	2.10	1.63	2.08	2.50
7310	$\alpha_D D+\alpha_L L$ (Strength)	1.49	3.42	4.76	1.27	3.06	4.24	1.35	2.98	3.92	1.43	3.29	3.79
	D+L (Deflection)	0.37	0.68	1.00	0.59	0.91	1.24	0.84	1.19	1.53	1.12	1.51	1.88
	L (Deflection)	0.37	0.68	1.00	0.59	0.91	1.24	0.84	1.19	1.53	1.12	1.51	1.88
7610	$\alpha_D D+\alpha_L L$ (Strength)	0.96	2.87	4.09	1.03	2.52	3.60	1.10	2.43	3.29	1.17	2.70	3.16
	D+L (Deflection)	0.07	0.33	0.61	0.25	0.52	0.81	0.45	0.76	1.05	0.69	1.02	1.34
	L (Deflection)	0.07	0.33	0.61	0.25	0.52	0.81	0.45	0.76	1.05	0.69	1.02	1.34
MAXIMUM UNSHORED CONSTRUCTION CLEAR SPANS													
1span		4250	4580	4845	4195	4525	4790	4150	4475	4735	4105	4425	4690
2span		3695	4775	5680	3620	4680	5575	3545	4595	5475	3480	4510	5385
3span		3830	4940	5680	3745	4845	5615	3675	4755	5550	3600	4670	5490
cantilever		1910	2300	2480	1880	2260	2440	1855	2230	2405	1825	2200	2370
Concrete Volume (m^3/m^2)		0.117			0.124			0.130			0.137		

3960	$\alpha_D D+\alpha_L L$ (Strength)	7.65 ← **Max. superimposed LSD factored dead + live load (kPa) (governed by strength limitation)**
	D+L (Deflection)	7.65 ← **Max. superimposed LSD unfactored dead + live load (kPa) (governed by deflection limitation of L/240)**
↑	L (Deflection)	7.65 ← **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^2

I_D Moment of inertia for deflection per foot of deck width mm^4/m

Sp Section modulus for positive bending per foot of deck width, mm^3/m

Sn Section modulus for negative bending per foot of deck width, mm^3/m

f'c 21 MPa

α_D, α_L Load factors for dead and live loads, respectivly,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^2

D Uniform dead load, kPa

L Uniform live load, kPa

Construction spans shown based on 51 mm exterior bearing and 102 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/M³ CONCRETE

REV: 4/16/08

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89 mm high x 203 mm pitch x 610 mm wide

SECTION PROPERTIES

Fy = 276 MPa

GAGE	Wd	I_D	Sp	Sn	Rbe			Rbi		
					51 mm	76 mm	102 mm	102 mm	127 mm	152 mm
20	16.25	2674779	1047270	1119646	13.52	15.50	17.17	27.53	29.61	31.50
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16	27.07	4635309	2054255	2102870	35.16	39.83	43.77	69.69	74.47	78.80

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

h (Wc)		165 mm (263.19)			171 mm (274.89)			178 mm (286.59)			184 mm (298.29)		
Span (mm)	Load Combinations	GAGE											
		20	18	16	20	18	16	20	18	16	20	18	16
3960	$\alpha_D D+\alpha_L L$ (Strength)	7.54	15.10	22.40	7.33	15.40	23.18	11.93	15.66	23.93	12.47	15.87	23.94
	D+L (Deflection)	7.54	15.10	19.15	7.33	15.40	19.15	11.93	15.66	19.15	12.47	15.87	19.15
	L (Deflection)	7.54	15.10	19.15	7.33	15.40	19.15	11.93	15.66	19.15	12.47	15.87	19.15
4260	$\alpha_D D+\alpha_L L$ (Strength)	9.05	11.23	17.67	9.51	11.31	18.18	9.96	11.34	18.65	10.41	20.22	19.09
	D+L (Deflection)	9.05	11.23	17.67	9.51	11.31	18.18	9.96	11.34	18.65	10.41	19.15	19.09
	L (Deflection)	9.05	11.23	17.20	9.51	11.31	18.18	9.96	11.34	18.65	10.41	19.15	19.09
4570	$\alpha_D D+\alpha_L L$ (Strength)	7.62	15.17	13.85	8.00	15.93	14.14	8.38	16.68	20.19	8.77	17.44	21.59
	D+L (Deflection)	7.62	15.17	13.85	8.00	15.93	14.14	8.38	16.68	19.15	8.77	17.44	19.15
	L (Deflection)	7.62	12.71	13.85	8.00	14.08	14.14	8.38	15.54	17.07	8.77	17.11	18.77
4870	$\alpha_D D+\alpha_L L$ (Strength)	6.45	13.19	14.91	6.78	13.85	16.01	7.10	14.50	17.16	7.43	15.16	18.38
	D+L (Deflection)	6.45	12.91	14.43	6.78	13.85	16.01	7.10	14.50	17.16	7.43	15.16	18.38
	L (Deflection)	6.45	10.47	11.52	6.78	11.60	12.75	7.10	12.80	14.06	7.43	14.09	15.47
5180	$\alpha_D D+\alpha_L L$ (Strength)	5.50	11.55	12.70	5.77	12.13	13.65	6.05	12.70	14.66	6.33	13.28	15.71
	D+L (Deflection)	5.50	10.30	11.56	5.77	11.59	12.98	6.05	12.70	14.51	6.33	13.28	15.71
	L (Deflection)	5.50	8.73	9.60	5.77	9.67	10.63	6.05	10.68	11.72	6.33	11.75	12.90
5480	$\alpha_D D+\alpha_L L$ (Strength)	4.70	9.83	10.85	4.94	10.60	11.68	5.18	11.19	12.55	5.41	11.70	13.47
	D+L (Deflection)	4.70	8.23	9.29	4.94	9.31	10.46	5.18	10.46	11.73	5.41	11.70	13.10
	L (Deflection)	4.70	7.35	8.09	4.94	8.15	8.95	5.18	8.99	9.88	5.41	9.90	10.86
5790	$\alpha_D D+\alpha_L L$ (Strength)	4.03	8.38	9.28	4.24	9.05	10.01	4.44	9.76	10.77	4.65	10.37	11.58
	D+L (Deflection)	4.03	6.58	7.47	4.24	7.48	8.45	4.44	8.44	9.52	4.65	9.48	10.66
	L (Deflection)	4.03	6.25	6.88	4.24	6.93	7.61	4.44	7.65	8.40	4.65	8.42	9.24
6090	$\alpha_D D+\alpha_L L$ (Strength)	3.46	7.13	7.94	3.64	7.73	8.58	3.82	8.35	9.25	4.00	9.01	9.97
	D+L (Deflection)	3.46	5.25	6.00	3.64	6.00	6.82	3.82	6.81	7.72	4.00	7.68	8.68
	L (Deflection)	3.46	5.25	5.90	3.64	5.94	6.53	3.82	6.56	7.20	4.00	7.22	7.92
6400	$\alpha_D D+\alpha_L L$ (Strength)	2.98	6.06	6.79	3.13	6.59	7.35	3.29	7.14	7.95	3.44	7.71	8.58
	D+L (Deflection)	2.98	4.15	4.79	3.13	4.78	5.49	3.29	5.47	6.25	3.44	6.21	7.07
	L (Deflection)	2.98	4.15	4.79	3.13	4.78	5.49	3.29	5.47	6.22	3.44	6.21	6.84
6700	$\alpha_D D+\alpha_L L$ (Strength)	2.56	5.14	5.79	2.31	5.60	6.29	2.43	6.08	6.81	2.55	6.59	7.37
	D+L (Deflection)	2.56	3.25	3.80	2.31	3.78	4.39	2.43	4.36	5.03	2.55	4.99	5.73
	L (Deflection)	2.56	3.25	3.80	2.31	3.78	4.39	2.43	4.36	5.03	2.55	4.99	5.73
7010	$\alpha_D D+\alpha_L L$ (Strength)	1.83	4.33	4.92	1.93	4.73	5.36	2.03	5.16	5.83	2.13	5.62	6.32
	D+L (Deflection)	1.83	2.49	2.97	1.93	2.95	3.47	2.03	3.44	4.02	2.13	3.98	4.62
	L (Deflection)	1.83	2.49	2.97	1.93	2.95	3.47	2.03	3.44	4.02	2.13	3.98	4.62
7310	$\alpha_D D+\alpha_L L$ (Strength)	1.52	3.62	4.15	1.60	3.98	4.54	1.91	4.36	4.96	2.01	4.76	5.40
	D+L (Deflection)	1.42	1.86	2.27	1.60	2.24	2.70	1.91	2.66	3.17	2.01	3.12	3.68
	L (Deflection)	1.42	1.86	2.27	1.60	2.24	2.70	1.91	2.66	3.17	2.01	3.12	3.68
7610	$\alpha_D D+\alpha_L L$ (Strength)	1.45	3.00	3.48	1.53	3.31	3.82	1.61	3.64	4.19	1.69	4.00	4.58
	D+L (Deflection)	0.94	1.32	1.68	1.23	1.65	2.05	1.55	2.01	2.45	1.69	2.40	2.89
	L (Deflection)	0.94	1.32	1.68	1.23	1.65	2.05	1.55	2.01	2.45	1.69	2.40	2.89
MAXIMUM UNSHORED CONSTRUCTION CLEAR SPANS													
1span		4060	4380	4640	4015	4335	4595	3955	4295	4550	3895	4255	4510
2span		3410	4430	5295	3350	4355	5210	3290	4280	5125	3230	4210	5045
3span		3535	4585	5440	3470	4510	5385	3410	4435	5305	3345	4360	5225
cantilever		1800	2165	2340	1775	2135	2310	1750	2110	2280	1730	2080	2250
Concrete Volume (m^3/m^2)		0.143			0.149			0.156			0.162		

3960	$\alpha_D D+\alpha_L L$ (Strength)	7.54 ← **Max. superimposed LSD factored dead + live load (kPa) (governed by strength limitation)**
	D+L (Deflection)	7.54 ← **Max. superimposed LSD unfactored dead + live load (kPa) (governed by deflection limitation of L/240)**
↑	L (Deflection)	7.54 ← **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^2

I_D Moment of inertia for deflection per foot of deck width mm^4/m

Sp Section modulus for positive bending per foot of deck width, mm^3/m

Sn Section modulus for negative bending per foot of deck width, mm^3/m

f'c 21 MPa

α_D, α_L Load factors for dead and live loads, respectivly,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^2

D Uniform dead load, kPa

L Uniform live load, kPa

Construction spans shown based on 51 mm exterior bearing and 102 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.

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89 mm high x 203 mm pitch x 610 mm wide

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GAGE	Wd	I_D	Sp	Sn	Rbe			Rbi		
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16	27.07	4635309	2054255	2102870	35.16	39.83	43.77	69.69	74.47	78.80

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

h (Wc)		191 mm (309.98)			197 mm (321.68)			203 mm (333.38)			210 mm (345.08)		
Span (mm)	Load Combinations	GAGE											
		20	18	16	20	18	16	20	18	16	20	18	16
3960	$\alpha_D D+\alpha_L L$ (Strength)	13.01	16.03	23.94	13.55	16.13	23.94	14.09	16.18	23.94	14.63	16.17	23.94
	D+L (Deflection)	13.01	16.03	19.15	13.55	16.13	19.15	14.09	16.18	19.15	14.63	16.17	19.15
	L (Deflection)	13.01	16.03	19.15	13.55	16.13	19.15	14.09	16.18	19.15	14.63	16.17	19.15
4260	$\alpha_D D+\alpha_L L$ (Strength)	10.87	21.09	19.48	11.32	21.97	19.84	11.77	22.84	20.14	12.22	23.71	20.40
	D+L (Deflection)	10.87	19.15	19.15	11.32	19.15	19.15	11.77	19.15	19.15	12.22	19.15	19.15
	L (Deflection)	10.87	19.15	19.15	11.32	19.15	19.15	11.77	19.15	19.15	12.22	19.15	19.15
4570	$\alpha_D D+\alpha_L L$ (Strength)	9.15	18.19	23.06	9.53	18.95	23.94	9.91	19.70	23.94	10.29	20.45	23.94
	D+L (Deflection)	9.15	18.19	19.15	9.53	18.95	19.15	9.91	19.15	19.15	10.29	19.15	19.15
	L (Deflection)	9.15	18.19	19.15	9.53	18.95	19.15	9.91	19.15	19.15	10.29	19.15	19.15
4870	$\alpha_D D+\alpha_L L$ (Strength)	7.75	15.82	19.64	8.08	16.48	20.96	8.40	17.13	22.32	8.73	17.79	23.73
	D+L (Deflection)	7.75	15.82	19.15	8.08	16.48	19.15	8.40	17.13	19.15	8.73	17.79	19.15
	L (Deflection)	7.75	15.47	16.97	8.08	16.48	18.56	8.40	17.13	19.15	8.73	17.79	19.15
5180	$\alpha_D D+\alpha_L L$ (Strength)	6.61	13.85	16.81	6.88	14.43	17.95	7.16	15.01	19.14	7.44	15.58	20.37
	D+L (Deflection)	6.61	13.85	16.81	6.88	14.43	17.95	7.16	15.01	19.14	7.44	15.58	19.15
	L (Deflection)	6.61	12.90	14.14	6.88	14.11	15.47	7.16	15.01	16.88	7.44	15.58	18.37
5480	$\alpha_D D+\alpha_L L$ (Strength)	5.65	12.21	14.43	5.89	12.72	15.44	6.13	13.23	16.48	6.37	13.74	17.56
	D+L (Deflection)	5.65	12.21	14.43	5.89	12.72	15.44	6.13	13.23	16.48	6.37	13.74	17.56
	L (Deflection)	5.65	10.86	11.92	5.89	11.89	13.03	6.13	12.98	14.22	6.37	13.74	15.47
5790	$\alpha_D D+\alpha_L L$ (Strength)	4.85	10.82	12.43	5.06	11.27	13.31	5.26	11.72	14.22	5.47	12.17	15.17
	D+L (Deflection)	4.85	10.60	11.89	5.06	11.27	13.20	5.26	11.72	14.22	5.47	12.17	15.17
	L (Deflection)	4.85	9.24	10.13	5.06	10.11	11.08	5.26	11.03	12.09	5.47	12.01	13.16
6090	$\alpha_D D+\alpha_L L$ (Strength)	4.17	9.63	10.71	4.35	10.04	11.49	4.53	10.44	12.30	4.23	10.84	13.14
	D+L (Deflection)	4.17	8.62	9.72	4.35	9.63	10.83	4.53	10.44	12.01	4.23	10.84	13.14
	L (Deflection)	4.17	7.92	8.69	4.35	8.67	9.50	4.53	9.46	10.37	4.23	10.30	11.28
6400	$\alpha_D D+\alpha_L L$ (Strength)	3.16	8.32	9.23	3.30	8.95	9.92	3.44	9.34	10.64	3.58	9.70	11.39
	D+L (Deflection)	3.16	7.01	7.95	3.30	7.86	8.89	3.44	8.77	9.89	3.58	9.70	10.96
	L (Deflection)	3.16	6.84	7.50	3.30	7.49	8.21	3.44	8.17	8.95	3.58	8.90	9.75
6700	$\alpha_D D+\alpha_L L$ (Strength)	2.66	7.13	7.96	2.78	7.69	8.57	2.90	8.27	9.20	3.28	8.71	9.87
	D+L (Deflection)	2.66	5.67	6.48	2.78	6.40	7.28	2.90	7.18	8.14	3.28	8.01	9.06
	L (Deflection)	2.66	5.67	6.48	2.78	6.40	7.14	2.90	7.11	7.79	3.28	7.74	8.48
7010	$\alpha_D D+\alpha_L L$ (Strength)	2.23	6.09	6.84	2.58	6.59	7.38	2.69	7.11	7.95	2.80	7.65	8.54
	D+L (Deflection)	2.23	4.55	5.26	2.58	5.18	5.95	2.69	5.84	6.68	2.80	6.56	7.47
	L (Deflection)	2.23	4.55	5.26	2.58	5.18	5.95	2.69	5.84	6.68	2.80	6.56	7.42
7310	$\alpha_D D+\alpha_L L$ (Strength)	2.10	5.18	5.86	2.19	5.62	6.34	2.28	6.08	6.85	2.38	6.56	7.38
	D+L (Deflection)	2.10	3.62	4.23	2.19	4.15	4.82	2.28	4.73	5.46	2.38	5.34	6.14
	L (Deflection)	2.10	3.62	4.23	2.19	4.15	4.82	2.28	4.73	5.46	2.38	5.34	6.14
7610	$\alpha_D D+\alpha_L L$ (Strength)	1.77	4.37	5.00	1.85	4.77	5.43	1.93	5.18	5.88	2.01	5.61	6.35
	D+L (Deflection)	1.77	2.83	3.36	1.85	3.29	3.87	1.93	3.78	4.42	2.01	4.31	5.01
	L (Deflection)	1.77	2.83	3.36	1.85	3.29	3.87	1.93	3.78	4.42	2.01	4.31	5.01
MAXIMUM UNSHORED CONSTRUCTION CLEAR SPANS													
1span		3835	4220	4470	3780	4180	4430	3730	4145	4395	3675	4110	4360
2span		3175	4145	4970	3120	4080	4900	3070	4020	4830	3020	3960	4760
3span		3290	4290	5145	3235	4225	5070	3180	4160	5000	3130	4100	4925
cantilever		1705	2055	2225	1685	2035	2200	1665	2010	2175	1645	1990	2155
Concrete Volume (m^3/m^2)		0.168			0.175			0.181			0.187		

3960	$\alpha_D D+\alpha_L L$ (Strength)	13.01 ← **Max. superimposed LSD factored dead + live load (kPa) (governed by strength limitation)**
	D+L (Deflection)	13.01 ← **Max. superimposed LSD unfactored dead + live load (kPa) (governed by deflection limitation of L/240)**
↑	L (Deflection)	13.01 ← **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^2

I_D Moment of inertia for deflection per foot of deck width mm^4/m

Sp Section modulus for positive bending per foot of deck width, mm^3/m

Sn Section modulus for negative bending per foot of deck width, mm^3/m

f'c 21 MPa

α_D, α_L Load factors for dead and live loads, respectivly,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^2

D Uniform dead load, kPa

L Uniform live load, kPa

Construction spans shown based on 51 mm exterior bearing and 102 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/M³ CONCRETE

REV: 4/16/08