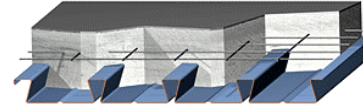


SECTION PROPERTIES

Fy = 276 MPa

GAGE	Wd	I _D	Sp	Sn	Rbe			Rbi		
					51 mm	76 mm	102 mm	102 mm	127 mm	152 mm
22	10.97	569724	414593	410769	14.25	16.40	18.22	26.96	29.08	30.99
20	13.30	690032	527117	506633	20.28	23.25	25.75	38.28	41.18	43.81
18	17.58	910711	696041	677332	33.79	38.49	42.45	63.55	68.13	72.26
16	22.13	1144773	874523	851991	51.52	58.36	64.13	96.67	103.30	109.30



SIMPLE SPAN - MAXIMUM SUPERIMPOSED LSD LOADS, (kPa), NO STUDS ON BEAMS																	
h (Wc)		102 mm (213.86)				108 mm (228.61)				114 mm (243.36)				121 mm (258.11)			
Span (mm)	Load Combinations	GAGE															
		22	20	18	16	22	20	18	16	22	20	18	16	22	20	18	16
2430	α _D D + α _L L (Strength)	13.64	19.62	22.25	23.94	13.85	20.43	23.94	23.94	20.87	21.12	23.94	23.94	22.32	21.68	23.94	23.94
	D+L (Deflection)	13.64	19.15	19.15	19.15	13.85	19.15	19.15	19.15	19.15	19.15	19.15	19.15	19.15	19.15	19.15	19.15
	L (Deflection)	13.64	19.15	19.15	19.15	13.85	19.15	19.15	19.15	19.15	19.15	19.15	19.15	19.15	19.15	19.15	19.15
2740	α _D D + α _L L (Strength)	15.46	12.74	19.77	21.34	17.06	12.94	21.09	23.05	18.33	13.00	21.88	23.94	19.61	20.60	22.54	23.94
	D+L (Deflection)	15.46	12.74	19.15	19.15	17.06	12.94	19.15	19.15	18.33	13.00	19.15	19.15	19.15	19.15	19.15	19.15
	L (Deflection)	15.46	12.74	19.15	19.15	17.06	12.94	19.15	19.15	18.33	13.00	19.15	19.15	19.15	19.15	19.15	19.15
3040	α _D D + α _L L (Strength)	11.87	12.86	13.88	19.20	13.37	14.47	14.21	20.75	14.96	16.19	18.01	21.73	16.64	18.00	19.96	22.43
	D+L (Deflection)	11.87	12.86	13.88	19.15	13.37	14.47	14.21	19.15	14.96	16.19	18.01	19.15	16.64	18.00	19.15	19.15
	L (Deflection)	11.87	12.86	13.88	16.17	13.37	14.47	14.21	19.03	14.96	16.19	18.01	19.15	16.64	18.00	19.15	19.15
3350	α _D D + α _L L (Strength)	9.21	10.02	11.23	14.29	10.41	11.32	12.66	13.80	11.69	12.69	14.19	15.45	13.04	14.15	15.81	17.20
	D+L (Deflection)	9.21	10.02	11.23	14.29	10.41	11.32	12.66	13.80	11.69	12.69	14.19	15.45	13.04	14.15	15.81	17.20
	L (Deflection)	9.21	9.91	11.05	12.15	10.41	11.32	12.66	13.80	11.69	12.69	14.19	15.45	13.04	14.15	15.81	17.20
3650	α _D D + α _L L (Strength)	7.19	7.86	8.87	9.72	8.16	8.92	10.03	10.98	9.20	10.04	11.28	12.33	10.30	11.23	12.61	13.77
	D+L (Deflection)	7.19	7.86	8.87	9.72	8.16	8.92	10.03	10.98	9.20	10.04	11.28	12.33	10.30	11.23	12.61	13.77
	L (Deflection)	7.11	7.63	8.51	9.36	8.16	8.92	10.03	10.98	9.20	10.04	11.28	12.33	10.30	11.23	12.61	13.77
3960	α _D D + α _L L (Strength)	5.62	6.19	7.03	7.74	6.41	7.05	7.99	8.79	7.26	7.97	9.02	9.91	8.17	8.95	10.12	11.10
	D+L (Deflection)	5.62	6.19	7.03	7.74	6.41	7.05	7.99	8.79	7.26	7.97	9.02	9.91	8.17	8.95	10.12	11.10
	L (Deflection)	5.59	6.00	6.70	7.36	6.41	7.05	7.89	8.66	7.26	7.97	9.02	9.91	8.17	8.95	10.12	11.10
4260	α _D D + α _L L (Strength)	4.37	4.85	5.57	6.18	5.02	5.57	6.37	7.05	5.73	6.33	7.23	7.98	6.47	7.15	8.14	8.98
	D+L (Deflection)	4.37	4.85	5.57	6.18	5.02	5.57	6.37	7.05	5.73	6.33	7.23	7.98	6.47	7.15	8.14	8.98
	L (Deflection)	4.37	4.81	5.36	5.89	5.02	5.57	6.32	6.94	5.73	6.33	7.23	7.98	6.47	7.15	8.14	8.98
4570	α _D D + α _L L (Strength)	3.36	3.78	4.40	4.92	3.90	4.37	5.06	5.64	4.49	5.01	5.78	6.43	5.11	5.69	6.55	7.27
	D+L (Deflection)	3.25	3.63	4.27	4.87	3.90	4.37	5.06	5.64	4.49	5.01	5.78	6.43	5.11	5.69	6.55	7.27
	L (Deflection)	3.25	3.63	4.27	4.79	3.90	4.37	5.06	5.64	4.49	5.01	5.78	6.43	5.11	5.69	6.55	7.27
4870	α _D D + α _L L (Strength)	2.54	2.90	3.44	3.88	2.99	3.39	3.99	4.50	4.32	3.93	4.60	5.16	4.89	4.50	5.24	5.87
	D+L (Deflection)	2.29	2.60	3.11	3.60	2.96	3.32	3.93	4.50	3.72	3.93	4.60	5.16	4.58	4.50	5.24	5.87
	L (Deflection)	2.29	2.60	3.11	3.60	2.96	3.32	3.93	4.50	3.72	3.93	4.60	5.16	4.58	4.50	5.24	5.87
5180	α _D D + α _L L (Strength)	2.60	2.17	2.64	3.03	3.03	2.58	3.11	3.54	3.48	3.03	3.62	4.10	3.96	3.51	4.16	4.71
	D+L (Deflection)	1.54	1.80	2.22	2.62	2.08	2.38	2.88	3.35	2.69	3.03	3.62	4.10	3.38	3.51	4.16	4.71
	L (Deflection)	1.54	1.80	2.22	2.62	2.08	2.38	2.88	3.35	2.69	3.03	3.62	4.10	3.38	3.51	4.16	4.71
5480	α _D D + α _L L (Strength)	2.03	1.56	1.97	2.31	2.39	1.90	2.36	2.75	2.77	2.28	2.79	3.22	3.18	3.59	3.26	3.73
	D+L (Deflection)	0.95	1.16	1.51	1.84	1.38	1.63	2.04	2.43	1.87	2.16	2.65	3.11	2.43	2.77	3.26	3.73
	L (Deflection)	0.95	1.16	1.51	1.84	1.38	1.63	2.04	2.43	1.87	2.16	2.65	3.11	2.43	2.77	3.26	3.73
5790	α _D D + α _L L (Strength)	1.55	1.04	1.41	1.70	1.85	1.41	1.74	2.07	2.18	2.50	2.10	2.47	2.51	2.88	2.49	2.91
	D+L (Deflection)	0.48	0.65	0.94	1.22	0.82	1.03	1.37	1.70	1.22	1.46	1.87	2.25	1.67	1.95	2.43	2.87
	L (Deflection)	0.48	0.65	0.94	1.22	0.82	1.03	1.37	1.70	1.22	1.46	1.87	2.25	1.67	1.95	2.43	2.87
6090	α _D D + α _L L (Strength)	1.13	1.36	0.92	1.18	1.39	1.64	1.20	1.49	1.67	1.95	1.50	1.84	1.91	2.29	1.83	2.21
	D+L (Deflection)	0.10	0.24	0.49	0.71	0.37	0.54	0.83	1.11	0.69	0.89	1.23	1.56	1.05	1.29	1.69	2.07
	L (Deflection)	0.10	0.24	0.49	0.71	0.37	0.54	0.83	1.11	0.69	0.89	1.23	1.56	1.05	1.29	1.69	2.07
MAXIMUM UNSHORED CONSTRUCTION CLEAR SPANS (mm)																	
1span	2510	2905	3165	3390	2455	2845	3100	3325	2400	2790	3040	3265	2355	2730	2985	3205	
2span	2530	2910	3485	3890	2470	2840	3405	3800	2410	2775	3340	3720	2355	2720	3265	3665	
3span	2620	3010	3605	4020	2555	2940	3520	3935	2495	2875	3450	3855	2440	2810	3380	3780	
cantilever	935	1095	1345	1575	925	1075	1325	1550	910	1060	1300	1520	895	1045	1280	1495	
Concrete Volume (m ³ /m ²)	0.092				0.098				0.105				0.111				

2430	α _D D + α _L L (Strength)	13.64	← Max. superimposed LSD factored dead + live load (kPa) (governed by strength limitation)
	D+L (Deflection)	13.64	← Max. superimposed LSD unfactored dead + live load (kPa) (governed by deflection limitation of L/240)
	L (Deflection)	13.64	← 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/m²

I_D Moment of inertia for deflection per foot of deck width mm⁴/m

Sp Section modulus for positive bending per foot of deck width, mm³/m

Sn Section modulus for negative bending per foot of deck width, mm³/m

f_c 21 MPa

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 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.

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/m²

D Uniform dead load, kPa

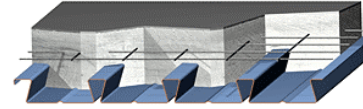
L Uniform live load, kPa

2320 KG/M³ CONCRETE

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
22	10.97	569724	414593	410769	14.25	16.40	18.22	26.96	29.08	30.99
20	13.30	690032	527117	506633	20.28	23.25	25.75	38.28	41.18	43.81
18	17.58	910711	696041	677332	33.79	38.49	42.45	63.55	68.13	72.26
16	22.13	1144773	874523	851991	51.52	58.36	64.13	96.67	103.30	109.30



SIMPLE SPAN - MAXIMUM SUPERIMPOSED LSD LOADS, (kPa), NO STUDS ON BEAMS																	
h (Wc)		127 mm (272.86)				133 mm (287.61)				140 mm (302.35)				146 mm (317.1)			
Span (mm)	Load Combinations	GAGE															
		22	20	18	16	22	20	18	16	22	20	18	16	22	20	18	16
2430	α _D D + α _L L (Strength)	23.77	22.10	23.94	23.94	23.94	22.38	23.94	23.94	23.94	22.51	23.94	23.94	23.94	22.49	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	α _D D + α _L L (Strength)	20.89	21.95	23.07	23.94	22.17	23.29	23.47	23.94	23.44	23.94	23.72	23.94	23.94	23.94	23.83	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
3040	α _D D + α _L L (Strength)	18.41	19.53	21.27	22.99	19.72	20.73	22.58	23.43	20.86	21.93	23.89	23.72	22.00	23.13	23.94	23.94
	D+L (Deflection)	18.41	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)	18.41	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
3350	α _D D + α _L L (Strength)	14.46	15.69	17.51	19.05	15.94	17.29	19.30	20.99	17.50	18.97	21.17	23.03	19.11	20.72	22.68	23.94
	D+L (Deflection)	14.46	15.69	17.51	19.05	15.94	17.29	19.15	19.15	17.50	18.97	19.15	19.15	19.11	19.15	19.15	19.15
	L (Deflection)	14.46	15.69	17.51	19.05	15.94	17.29	19.15	19.15	17.50	18.97	19.15	19.15	19.11	19.15	19.15	19.15
3650	α _D D + α _L L (Strength)	11.45	12.48	14.00	15.29	12.67	13.79	15.47	16.88	13.93	15.17	17.01	18.56	15.25	16.60	18.61	20.30
	D+L (Deflection)	11.45	12.48	14.00	15.29	12.67	13.79	15.47	16.88	13.93	15.17	17.01	18.56	15.25	16.60	18.61	19.15
	L (Deflection)	11.45	12.48	14.00	15.29	12.67	13.79	15.47	16.88	13.93	15.17	17.01	18.56	15.25	16.60	18.61	19.15
3960	α _D D + α _L L (Strength)	9.12	9.99	11.27	12.36	10.12	11.07	12.49	13.68	11.16	12.21	13.77	15.08	12.25	13.40	15.10	16.53
	D+L (Deflection)	9.12	9.99	11.27	12.36	10.12	11.07	12.49	13.68	11.16	12.21	13.77	15.08	12.25	13.40	15.10	16.53
	L (Deflection)	9.12	9.99	11.27	12.36	10.12	11.07	12.49	13.68	11.16	12.21	13.77	15.08	12.25	13.40	15.10	16.53
4260	α _D D + α _L L (Strength)	7.26	8.01	9.11	10.03	8.09	8.91	10.13	11.14	8.96	9.86	11.19	12.31	9.87	10.85	12.31	13.54
	D+L (Deflection)	7.26	8.01	9.11	10.03	8.09	8.91	10.13	11.14	8.96	9.86	11.19	12.31	9.87	10.85	12.31	13.54
	L (Deflection)	7.26	8.01	9.11	10.03	8.09	8.91	10.13	11.14	8.96	9.86	11.19	12.31	9.87	10.85	12.31	13.54
4570	α _D D + α _L L (Strength)	5.77	6.41	7.36	8.16	7.24	7.17	8.22	9.10	7.73	7.97	9.12	10.09	8.22	8.80	10.06	11.12
	D+L (Deflection)	5.77	6.41	7.36	8.16	7.24	7.17	8.22	9.10	7.73	7.97	9.12	10.09	8.22	8.80	10.06	11.12
	L (Deflection)	5.77	6.41	7.36	8.16	7.24	7.17	8.22	9.10	7.73	7.97	9.12	10.09	8.22	8.80	10.06	11.12
4870	α _D D + α _L L (Strength)	5.46	5.10	5.93	6.62	5.86	5.74	6.66	7.42	6.26	6.42	7.42	8.26	6.66	7.12	8.22	9.15
	D+L (Deflection)	5.46	5.10	5.93	6.62	5.86	5.74	6.66	7.42	6.26	6.42	7.42	8.26	6.66	7.12	8.22	9.15
	L (Deflection)	5.46	5.10	5.93	6.62	5.86	5.74	6.66	7.42	6.26	6.42	7.42	8.26	6.66	7.12	8.22	9.15
5180	α _D D + α _L L (Strength)	4.38	4.02	4.74	5.35	4.71	4.56	5.36	6.03	5.04	6.18	6.01	6.75	5.37	6.83	6.70	7.51
	D+L (Deflection)	4.15	4.02	4.74	5.35	4.71	4.56	5.36	6.03	5.04	6.18	6.01	6.75	5.37	6.83	6.70	7.51
	L (Deflection)	4.15	4.02	4.74	5.35	4.71	4.56	5.36	6.03	5.04	6.18	6.01	6.75	5.37	6.83	6.70	7.51
5480	α _D D + α _L L (Strength)	3.48	4.07	3.75	4.28	3.75	4.57	4.28	4.87	4.02	5.11	4.83	5.48	4.28	5.67	5.42	6.14
	D+L (Deflection)	3.05	3.45	3.75	4.28	3.75	4.20	4.28	4.87	4.02	5.04	4.83	5.48	4.28	5.67	5.42	6.14
	L (Deflection)	3.05	3.45	3.75	4.28	3.75	4.20	4.28	4.87	4.02	5.04	4.83	5.48	4.28	5.67	5.42	6.14
5790	α _D D + α _L L (Strength)	2.72	3.30	2.91	3.38	2.94	3.74	3.36	3.88	3.15	4.20	3.84	4.41	3.36	4.68	4.34	4.97
	D+L (Deflection)	2.18	2.51	2.91	3.38	2.75	3.13	3.36	3.88	3.15	3.82	3.84	4.41	3.36	4.58	4.34	4.97
	L (Deflection)	2.18	2.51	2.91	3.38	2.75	3.13	3.36	3.88	3.15	3.82	3.84	4.41	3.36	4.58	4.34	4.97
6090	α _D D + α _L L (Strength)	2.07	2.64	2.19	2.61	2.24	3.02	2.58	3.04	2.41	3.42	2.98	3.50	2.58	3.84	4.53	3.98
	D+L (Deflection)	1.47	1.75	2.19	2.61	1.94	2.26	2.58	3.04	2.41	2.83	2.98	3.50	2.58	3.46	4.14	3.98
	L (Deflection)	1.47	1.75	2.19	2.61	1.94	2.26	2.58	3.04	2.41	2.83	2.98	3.50	2.58	3.46	4.14	3.98
MAXIMUM UNSHORED CONSTRUCTION CLEAR SPANS (mm)																	
1span	2310	2675	2935	3150	2270	2625	2885	3100	2230	2580	2840	3050	2190	2535	2800	3010	
2span	2305	2660	3205	3595	2260	2605	3140	3540	2215	2555	3085	3470	2165	2510	3025	3415	
3span	2385	2755	3315	3720	2340	2695	3250	3650	2290	2645	3190	3595	2245	2595	3135	3540	
cantilever	885	1030	1260	1470	870	1015	1245	1450	865	1005	1225	1425	850	990	1205	1405	
Concrete Volume (m ³ /m ²)	0.117				0.124				0.130				0.137				

2430	α _D D + α _L L (Strength)	23.77	← 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 ²		
I _D	Moment of inertia for deflection per foot of deck width mm ⁴ /m		Rbe Allowable exterior web crippling value per foot of deck, kN/m
Sp	Section modulus for positive bending per foot of deck width, mm ³ /m		Rbi Allowable interior web crippling value per foot of deck, kN/m
Sn	Section modulus for negative bending per foot of deck width, mm ³ /m		h Total height of concrete slab, mm
f _c	21 MPa		Wc Weight of concrete (neglecting deflection), kg/m ²
α _D , α _L	Load factors for dead and live loads, respectively, to be applied by Engineer in accordance with Building Codes		D Uniform dead load, kPa
	Construction spans shown based on 51 mm exterior bearing and 102 mm interior bearing width.		L Uniform live load, kPa

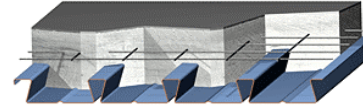
The section property table is based on 2001 AISI's Cold-Formed Steel Design Manual, 2004 Supplement. The live loads and unshored construction clear spans are based on the Canadian Sheet Steel Building Institute's Standard for Composite Steel Deck (CSSBI 12M-06), September 2006 and Criteria for the Design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

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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
22	10.97	569724	414593	410769	14.25	16.40	18.22	26.96	29.08	30.99
20	13.30	690032	527117	506633	20.28	23.25	25.75	38.28	41.18	43.81
18	17.58	910711	696041	677332	33.79	38.49	42.45	63.55	68.13	72.26
16	22.13	1144773	874523	851991	51.52	58.36	64.13	96.67	103.30	109.30



SIMPLE SPAN - MAXIMUM SUPERIMPOSED LSD LOADS, (kPa), NO STUDS ON BEAMS																	
h (Wc)		152 mm (331.85)				159 mm (346.6)				165 mm (361.35)				171 mm (376.1)			
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)	23.94	22.31	23.94	23.94	23.94	21.98	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)	23.94	23.94	23.78	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
3040	$\alpha_D D + \alpha_L L$ (Strength)	23.13	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
3350	$\alpha_D D + \alpha_L L$ (Strength)	20.78	21.88	23.86	23.94	21.81	22.96	23.94	23.94	22.84	23.94	23.94	23.94	23.86	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
3650	$\alpha_D D + \alpha_L L$ (Strength)	16.62	18.09	20.27	22.12	18.05	19.63	22.00	23.94	19.52	21.23	23.79	23.94	21.03	22.77	23.94	23.94
	D+L (Deflection)	16.62	18.09	19.15	19.15	18.05	19.15	19.15	19.15	19.15	19.15	19.15	19.15	19.15	19.15	19.15	19.15
	L (Deflection)	16.62	18.09	19.15	19.15	18.05	19.15	19.15	19.15	19.15	19.15	19.15	19.15	19.15	19.15	19.15	19.15
3960	$\alpha_D D + \alpha_L L$ (Strength)	13.39	14.63	16.48	18.05	14.57	15.91	17.92	19.62	15.78	17.24	19.41	21.25	17.04	18.61	20.96	22.94
	D+L (Deflection)	13.39	14.63	16.48	18.05	14.57	15.91	17.92	19.15	15.78	17.24	19.15	19.15	17.04	18.61	19.15	19.15
	L (Deflection)	13.39	14.63	16.48	18.05	14.57	15.91	17.92	19.15	15.78	17.24	19.15	19.15	17.04	18.61	19.15	19.15
4260	$\alpha_D D + \alpha_L L$ (Strength)	10.74	11.89	13.47	14.81	11.35	12.96	14.68	16.14	11.95	14.07	15.94	17.52	12.56	15.23	17.24	18.94
	D+L (Deflection)	10.74	11.89	13.47	14.81	11.35	12.96	14.68	16.14	11.95	14.07	15.94	17.52	12.56	15.23	17.24	18.94
	L (Deflection)	10.74	11.89	13.47	14.81	11.35	12.96	14.68	16.14	11.95	14.07	15.94	17.52	12.56	15.23	17.24	18.94
4570	$\alpha_D D + \alpha_L L$ (Strength)	8.72	9.67	11.05	12.20	9.21	10.58	12.07	13.33	9.71	11.52	13.14	14.50	10.20	12.49	14.24	15.71
	D+L (Deflection)	8.72	9.67	11.05	12.20	9.21	10.58	12.07	13.33	9.71	11.52	13.14	14.50	10.20	12.49	14.24	15.71
	L (Deflection)	8.72	9.67	11.05	12.20	9.21	10.58	12.07	13.33	9.71	11.52	13.14	14.50	10.20	12.49	14.24	15.71
4870	$\alpha_D D + \alpha_L L$ (Strength)	7.07	7.86	9.06	10.07	7.47	8.83	9.94	11.03	7.87	10.49	10.84	12.03	8.28	11.04	11.78	13.07
	D+L (Deflection)	7.07	7.86	9.06	10.07	7.47	8.83	9.94	11.03	7.87	10.49	10.84	12.03	8.28	11.04	11.78	13.07
	L (Deflection)	7.07	7.86	9.06	10.07	7.47	8.83	9.94	11.03	7.87	10.49	10.84	12.03	8.28	11.04	11.78	13.07
5180	$\alpha_D D + \alpha_L L$ (Strength)	5.70	7.51	7.42	8.30	6.02	8.22	8.16	9.13	6.35	8.67	8.94	9.99	6.68	9.13	9.75	10.88
	D+L (Deflection)	5.70	7.51	7.42	8.30	6.02	8.22	8.16	9.13	6.35	8.67	8.94	9.99	6.68	9.13	9.75	10.88
	L (Deflection)	5.70	7.51	7.42	8.30	6.02	8.22	8.16	9.13	6.35	8.67	8.94	9.99	6.68	9.13	9.75	10.88
5480	$\alpha_D D + \alpha_L L$ (Strength)	4.55	6.25	6.04	6.82	4.81	6.78	6.68	7.53	5.08	7.15	7.35	8.27	5.34	7.52	8.04	9.05
	D+L (Deflection)	4.55	6.25	6.04	6.82	4.81	6.78	6.68	7.53	5.08	7.15	7.35	8.27	5.34	7.52	8.04	9.05
	L (Deflection)	4.55	6.25	6.04	6.82	4.81	6.78	6.68	7.53	5.08	7.15	7.35	8.27	5.34	7.52	8.04	9.05
5790	$\alpha_D D + \alpha_L L$ (Strength)	3.58	5.19	4.87	5.56	3.79	5.55	5.42	6.18	4.00	5.86	7.26	6.82	4.20	6.17	7.92	7.49
	D+L (Deflection)	3.58	5.19	4.87	5.56	3.79	5.55	5.42	6.18	4.00	5.86	7.26	6.82	4.20	6.17	7.92	7.49
	L (Deflection)	3.58	5.19	4.87	5.56	3.79	5.55	5.42	6.18	4.00	5.86	7.26	6.82	4.20	6.17	7.92	7.49
6090	$\alpha_D D + \alpha_L L$ (Strength)	2.75	4.25	5.04	4.49	2.91	4.51	5.56	5.03	3.08	4.76	6.11	5.59	3.24	5.01	6.68	6.17
	D+L (Deflection)	2.75	4.15	4.92	4.49	2.91	4.51	5.56	5.03	3.08	4.76	6.11	5.59	3.24	5.01	6.68	6.17
	L (Deflection)	2.75	4.15	4.92	4.49	2.91	4.51	5.56	5.03	3.08	4.76	6.11	5.59	3.24	5.01	6.68	6.17
MAXIMUM UNSHORED CONSTRUCTION CLEAR SPANS (mm)																	
1span	2155	2490	2760	2965	2120	2450	2720	2925	2090	2415	2685	2885	2055	2375	2650	2850	
2span	2130	2465	2975	3365	2085	2415	2925	3315	2050	2375	2875	3265	2010	2335	2830	3215	
3span	2200	2550	3080	3480	2160	2500	3025	3430	2120	2460	2975	3375	2080	2415	2930	3325	
cantilever	840	980	1190	1385	830	965	1175	1370	825	955	1160	1350	815	940	1145	1330	
Concrete Volume (m ³ /m ²)	0.143				0.149				0.156				0.162				

2430	$\alpha_D D + \alpha_L L$ (Strength)	23.94	← 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/m²

I_D Moment of inertia for deflection per foot of deck width mm⁴/m

Sp Section modulus for positive bending per foot of deck width, mm³/m

Sn Section modulus for negative bending per foot of deck width, mm³/m

f_c 21 MPa

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 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.

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/m²

D Uniform dead load, kPa

L Uniform live load, kPa

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