

ALUMINUM DATA SHEET



Section Properties (per meter of coverage width)

Thickness	Weight	Area	Top in Compression				Bottom in Compression				Shear
mm	Kg/m2	cm ²	Ix cm ⁴	Sx Topcm ³	Sx Bottomcm ³	Ma KN-m	Ix cm ⁴	Sx Topcm ³	Sx Bottomcm ³	Ma KN-m	Va KN
0.50	1.65	6.09	12.75	3.70	11.71	0.40	11.60	4.99	5.26	0.54	3.33
0.60	1.98	7.31	16.83	5.04	14.04	0.54	14.46	6.06	6.71	0.65	5.76
0.70	2.31	8.53	21.17	6.51	16.37	0.70	17.38	7.15	8.22	0.77	9.14
0.80	2.65	9.75	25.80	8.14	18.71	0.88	20.40	8.25	9.83	0.89	13.41
0.90	3.98	10.97	30.61	9.87	21.03	1.06	23.51	9.35	11.51	1.01	16.88
1.00	3.31	12.19	34.57	11.22	23.33	1.21	26.69	10.46	13.28	1.13	19.24

Allowable Uniform Load Capacities (KN/m2)

Thickness	No. of Spans	Load	Span in Meters								
Mm	No's	Case	1.00	1.25	1.50	1.75	2.00	2.25	2.50	2.75	3.00
0.50	upto 2 spans	D + L	3.19	2.04	1.42	1.04	0.80	0.63	0.51	0.42	0.00
		Uplift	4.30	2.75	1.91	1.40	1.08	0.85	0.69	0.57	0.48
	3 or more spans	D + L	3.99	2.55	1.77	1.30	1.00	0.79	0.64	0.53	0.44
		Uplift	5.38	3.44	2.39	1.76	1.34	1.06	0.86	0.71	0.60
0.60	upto 2 spans	D + L	4.35	2.78	1.93	1.42	1.09	0.86	0.70	0.57	0.48
		Uplift	5.23	3.35	2.32	1.71	1.31	1.03	0.84	0.69	0.58
	3 or more spans	D + L	5.43	3.48	2.41	1.77	1.36	1.07	0.87	0.72	0.60
		Uplift	6.54	4.18	2.90	2.13	1.63	1.29	1.05	0.86	0.73
0.70	upto 2 spans	D + L	5.62	3.59	2.50	1.83	1.40	1.11	0.90	0.74	0.62
		Uplift	6.16	3.94	2.74	2.01	1.54	1.22	0.99	0.81	0.68
	3 or more spans	D + L	7.02	4.49	3.12	2.29	1.76	1.39	1.12	0.93	0.78
		Uplift	7.70	4.93	3.42	2.51	1.93	1.52	1.23	1.02	0.86
0.80	upto 2 spans	D + L	7.02	4.49	3.12	2.29	1.75	1.39	1.12	0.93	0.78
		Uplift	7.11	4.55	3.16	2.32	1.78	1.40	1.14	0.94	0.79
	3 or more spans	D + L	8.77	5.61	3.90	2.86	2.19	1.73	1.40	1.16	0.97
		Uplift	8.89	5.69	3.95	2.90	2.22	1.76	1.42	1.18	0.99
0.90	upto 2 spans	D + L	8.51	5.45	3.78	2.78	2.13	1.68	1.36	1.13	0.95
		Uplift	8.06	5.16	3.58	2.63	2.02	1.59	1.29	1.07	0.90
	3 or more spans	D + L	10.64	6.81	4.73	3.47	2.66	2.10	1.70	1.41	0.18
		Uplift	10.08	6.45	4.48	3.29	2.52	1.99	1.61	1.33	0.12
1.00	upto 2 spans	D + L	9.68	6.20	4.30	3.16	2.42	1.91	1.55	1.28	0.08
		Uplift	9.02	5.77	4.01	2.94	2.25	1.78	1.44	1.19	0.00
	3 or more spans	D + L	12.10	7.74	5.38	3.95	3.03	2.39	1.94	1.60	0.34
		Uplift	11.27	7.21	5.01	3.68	2.82	2.23	1.80	1.49	0.25