

Cable Ladder Load Tables

Safe load tables are provided in a unique format for easy comparison and cost optimisation. Load tables assume an even distribution of load across the width of the ladder fixed in a horizontal plane, and that the loading is similar on at least two or more continuous spans. For non-uniform loads or spans/loadings outside the scope of the tables, please contact us for advice.

's' – maximum spacing of supports in metres

'd' – maximum deflection in end span in mm

'dp' – allowable deflection (span/200) in mm

'w' – safe working load in kg per linear metre

Example

Load required = 100kg per linear metre

Options available:

1. 50mm deep ladder will span up to a maximum of 2.396m with a deflection of 10.9mm
2. 100mm deep ladder will span up to a maximum of 3.952m with a deflection of 14.8mm
3. 125mm deep ladder will span up to a maximum of 5.321m with a deflection of 21.4mm
4. 150mm deep ladder will span up to a maximum of 6.000m with a deflection of 21.8mm

w kg/m	50mm deep			100mm deep			125mm deep			150mm deep		
	s	d	dp	s	d	dp	s	d	dp	s	d	dp
25	3.931	19.7	19.7	6.000	19.6	30.0	6.000	8.7	30.0	6.000	5.4	30.0
50	3.120	15.6	15.6	5.487	27.4	27.4	6.000	17.3	30.0	6.000	10.9	30.0
75	2.725	13.6	13.6	4.564	19.7	22.8	6.000	26.0	30.0	6.000	16.3	30.0
100	2.396	10.9	12.0	3.952	14.8	19.8	5.321	21.4	26.6	6.000	21.8	30.0
125	2.143	8.7	10.7	3.535	11.8	17.7	4.760	17.1	23.8	5.476	18.9	27.4
150	1.956	7.2	9.8	3.227	9.8	16.1	4.345	14.3	21.7	4.999	15.7	25.0
175	1.811	6.2	9.1	2.988	8.4	14.9	4.023	12.2	20.1	4.628	13.5	23.1
200	1.694	5.4	8.5	2.795	7.4	14.0	3.763	10.7	18.8	4.329	11.8	21.6
225	1.597	4.8	8.0	2.635	6.6	13.2	3.548	9.5	17.7	4.081	10.5	20.4
250	1.515	4.3	7.6	2.500	5.9	12.5	3.366	8.6	16.8	3.872	9.4	19.4
275	1.445	3.9	7.2	2.383	5.4	11.9	3.209	7.8	16.0	3.692	8.6	18.5
300	1.383	3.6	6.9	2.282	4.9	11.4	3.072	7.1	15.4	3.535	7.9	17.7

Head Office

5 Mathieson Road
Rutherglen, Glasgow,
G73 1DA.

T 141 647 3111

F 0141 613 1338

E sales@aitkenscotland.co.uk

Leeds Branch

Unit 2A Silver Royd Hill,
Silver Royd Business Park,
Silver Royd Hill, LS12 4QQ.

T 0113 255 1111

F 0113 255 1101

E leeds@aitkenscablemanagement.co.uk

Manchester Branch

Unit N9 Central Park Trading Estate,
Mosley Road, Trafford Park,
M17 1PG.

T 0161 872 6214

F 0161 872 7411

E manchester@aitkenscablemanagement.co.uk