

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 Metstrut for advice.

Ladder table

LOAD w kg/m	TYPE											
	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

'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