

HINGE GRADE TABLE

Having established the final design 'door mass' and the 'category of use', refer to the hinge grade table below to determine the required hinge grade.

The relevant grades given are based on 3 hinges being fitted to the door as illustrated in figure 1 of the 'hinge spacing code of practice'.

First digit			Second digit		Third digit		Fourth digit	Fifth digit	Sixth digit	Seventh digit	Eighth digit
Category of use			Durability test cycles		Test/Design door mass		Fire/smoke suitability	Safety	Corrosion resistance	Security	Hinge grade
Duty	Grade	For use on	Grade	No. of test cycles	Grades Available	Mass kg	Grades Available	Grades Available	Grades Available	Grades Available	Grade
Light	1	Door	4	25,000	1	20	0 or 1	1	0,1,2,3,4	0 or 1	3
Medium	2	Door	7	200,000	1	20	0 or 1	1	0,1,2,3,4	0 or 1	4
Light	1	Door	4	25,000	2	40	0 or 1	1	0,1,2,3,4	0 or 1	6
Medium	2	Door	7	200,000	2	40	0 or 1	1	0,1,2,3,4	0 or 1	7
Light	1	Door	4	25,000	3	60	0 or 1	1	0,1,2,3,4	0 or 1	9
Medium	2	Door	7	200,000	3	60	0 or 1	1	0,1,2,3,4	0 or 1	10
Heavy	3	Door	7	200,000	4	80	0 or 1	1	0,1,2,3,4	0 or 1	11
Severe	4	Door	7	200,000	5	100	0 or 1	1	0,1,2,3,4	0 or 1	12
Severe	4	Door	7	200,000	6	120	0 or 1	1	0,1,2,3,4	0 or 1	13
Severe	4	Door	7	200,000	7	160	0 or 1	1	0,1,2,3,4	0 or 1	14

The total hinge grade range is from 1 to 14 for doors and windows within the summary classification table of BS EN 1935:2002

The above table covers the classification for door hinge range only.