

acoustic doors



Internal Timber Door-sets

Doors of either single or double leaf construction can be provided to suit a variety of applications and can be supplied in primer, pre-finished or with timber veneers. All doors are manufactured with matching frames to ensure a high standard of fit and hence, acoustic performance. For most applications we recommend the use of timber construction as this affords greater flexibility in terms of door furniture and finish treatments.

Description

Construction comprises a timber leaf with hardwood lippings to the perimeter. The door leaf is factory machined for the lock case and match manufactured with a hardwood frame, pre-assembled with all acoustic seals and hung on lift off hinges, ready for installation. The acoustic seals comprise flexible elements around the periphery, attached to the door and/or frame dependent on performance. The threshold is fitted with a drop-down seal, which is activated on door closure. Standard fitment door furniture comprises hinges and a Euro profile sash lock/cylinder with levers and escutcheons. Alternative door furniture or self-closing devices can be provided to meet specific design requirements.

Acoustic Performance

Octave band centre frequency sound transmission loss measurements, carried out to standards NF S 31-049, S 31-050, S 31-051 and S 31-045, supplemented by standard ISO 717/1 for expression of single R_w values, are shown in the following table.

Frequency (Hz)	125	250	500	1k	2k	4k	R_w
KA39	25	30	42	47	43	38	41
KA43	28	32	43	46	49	49	45
KA45	26	37	48	50	52	50	47
KA49	32	45	47	51	52	58	50

Finishes

The vast majority of our door-sets are supplied to site with a laminated finish to either side of the door leaf and clear satin varnish to the hardwood frame and lippings. These can be chosen from our large range of coloured and wood laminates. We can also supply doors in prime painted finish, pre-painted to an RAL 9010 colour or with a wood veneer finish. The natural finish of the hardwood, used to manufacture the doorframes and window surrounds, can afford a pleasant contrast to the chosen finish for the door leaf. The peripheral acoustic seals are supplied with protective tape to facilitate ease of 'cutting in' when applying site treatments.

Fire Rating

Our door-sets are manufactured in France and have been tested in accordance with the relevant French Standards, achieving a fire resistance of CF30 ie. 30 minutes. Our KA39 and KA43 door-sets have also been tested in accordance with British Standards and achieve a fire resistance of FD30 ie. 30minutes.

Size and Handing

Single and double leaf door-sets can be manufactured to suit most builderswork opening sizes. All doors can be handed to suit your requirements and provided with or without thresholds. Where it is possible to use a standard size we prefer to use those tabulated below.

Door Type	Overall Frame Size	Clear Opening
KA39/KA43/KA45/KA49	1014mm wide x 2092mm high	878mm wide x 2024mm high
KA39/KA43/KA45/KA49	914mm wide x 2092mm high	778mm wide x 2024mm high

Non-Acoustic Doors

On larger projects where some doors may not need to be acoustically rated, but continuity of appearance is required, we can supply non-acoustic doors to suit.