

AD100 ACOUSTIC DOORSET

DESCRIPTION

The AD100 is a tested acoustic doorset designed to reduce sound transmission within buildings.

The AD100 is a lightweight, low cost alternative with improved performance compared to standard doors fitted with proprietary seals.

The AD100 is a hinged flush panel door that is suitable for interior use. It is available as a single door or pair of doors.

RATINGS

R_w 35 (ISO 717-1)

STC 35 (ASTM E413)

ACOUSTIC TESTING

Complete doorsets are tested to ISO 140-3 in a purpose-built facility that meets the requirements of ISO 140-1.

DOOR LEAF SPECIFICATIONS

Surface density: 17 kg/m²

Thickness: 43mm

Sizes: AD100 doors are manufactured to a maximum leaf size of 2700 x 1200mm

DOOR LEAF FINISHES

The standard AD100 door is supplied with a paint-quality MDF finish and unclashed edges. The door can also be supplied with timber veneer faces and the vertical edges clashed with solid timber. The AD100 is not suitable for use in exterior situations.

SEALS

The perimeter frame seals are self-adhesive seals mounted in the frame rebate, so are hidden when the door is closed.

The bottom seal (Type L) is an automatic door seal that lifts clear of the floor when the door is opened. The seal is fully mortised in a groove in the bottom edge of the door.

The bottom seal must close onto a smooth, flat and level surface in order to seal as intended.

PAIR MEETING STILES

The AD100 pair doorset is supplied with square meeting stiles, with a fin seal in each leaf.

Meeting stiles are illustrated on the Meeting Stile Details datasheet.

FRAME

The AD100 doorset is supplied pre-hung in the following frame types:

- Timber frame
- Standard steel frame
- 2-part steel frame

Steel frames require packing of the frame during installation with fibrous insulation material (e.g. fibreglass, mineral wool or polyester batts).

VISION PANEL

The AD100 can be supplied with a vision panel of up to 0.45 m² in area, and maximum height of 1000mm, maintaining the tested rating of R_w 35 and STC 35.

Standard glazing beads are:

- Aluminium angles, in natural anodized finish
- Timber beads for paint quality or clear finish

HARDWARE

The AD100 requires positive latching so that the frame seals properly seal the gap between door leaf and frame. Roller latches do not provide suitable latching.

Practically any standard door hardware can be used on the AD100, however the proposed hardware must be advised to Pacific Door Systems Ltd to assess the suitability, before manufacture.

INSTALLATION

Doorsets must be installed carefully with particular attention to the sealing of gaps, including around the frame to wall junction.

Installation instructions are provided with the door