

markus®

Acoustic Sliding Doors



INTERDOOR
SPECIALIST INDUSTRIAL DOORS

**Acoustic
Vertical Sliding Doors
for sound reduction of
up to 50dB**

“Hear the Difference!”

- Maximum w x h: 5000mm x 5000mm
- Maximum weight: 5 Tonnes
- Maximum Sound Reduction: 50dB
- Door Thickness: 120 mm
- Operation: Electric / Automatic
- Applications: Film / Recording Studios,
Congress Halls, Engine Rooms

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MK6 Acoustic 50dB Vertical Sliding Doors

The **markus® Acoustic 50 Vertical** Sliding Door is one of the most well-known high-performance acoustic doors on the market and was established in the 1960s. Over the years, the **markus® Acoustic** Sliding Door has been continually developed so that it is able to move vertically as well as horizontally whilst retaining a sound reduction of 50dB.

Accordingly, the **markus® Acoustic 50 Vertical** Sliding Door has been chosen as the acoustic stage door of choice over the last few years by World famous film studios, including Pinewood, Shepperton, Elstree and Wimbledon.

Dimensions	
max. width (W)	5000 mm
max. height (H)	5000 mm
max. sound reduction	50dB
door thickness	120 mm
Operation	electric
Max weight of door	5 tonnes

Components and Construction

The **markus® Acoustic 50 Vertical** Sliding Door is constructed as follows:

Door Blade

Construction:	manufactured with interchangeable panels
Insulation:	sandwich panel with metallic profiles filled with low density mineral wool and gypsum board
Thickness:	120mm
Finishing:	0.8mm steel sheet lacquered white or PVC coated or in AISI 304 stainless steel
Edge Profiles:	4mm galvanized iron (cold laminated) bumpers
Sealing:	double compact EPDM joint profile, pressure inserted into rigid PVC support with intermediate acoustic insulation. Upper part and vertical edges closing to the frame profile and bottom part closing to the floor
Bottom Guide:	galvanized iron profile

Track

- Galvanized iron supports (130x65x10mm)
- Galvanized iron "U" profile guiding bar (100x60x4mm)
- Roller steel ball bearings (∅ 90mm) (4 units)

Frame

- Double profile "L" (cold laminated) covered with perforated metallic sheet with aluminium profiles and insulated with low density rock wool

Bottom Cross Beam

- 2 galvanized iron profiles "L" (100x50mm) and galvanized iron supports for the guiding cams

Colours

The door leaf is finished in white lacquer as standard, but can be finished in PVC, stainless steel and most other colours (RAL).

Acoustic Attenuation

The **markus® Acoustic 50 Vertical** Sliding Door has been tested and certified by the LGAI Technological Centre (LGAi). The test obtained the following results:

- **Global rate to airborne sound insulation:** 49.8dB (A)
- **Insulation rate Rw:** 50dB

Control and operation

The **markus® Acoustic 50 Vertical** Sliding Door can only be operated electrically operated with a control unit with 3 push buttons (open-stop-close) and a control panel that regulates the speed of opening and closing. Given the size of the door, the operation is supplied as standard with "dead man mode". The door is able to be opened and closed manually in the case of emergency by way of hand chain.

Additional controls that can be connected to the standard control box are:

- pullswitch
- key-operation switch
- radio control

Safety

Anti-fall device type AS-D composed of anodized aluminium guides and suspension pendulum. There is also a safety device for overloading in the lifting mechanism of the door.

Optional Extras*

- electric drive unit (as described above)
- additional controls as described above
- key locking mechanism

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