

markus®

Hygienic Hermetically Sealing Sliding Doors



INTERDOOR
SPECIALIST INDUSTRIAL DOORS

***RADIATION PROOF Hygienic
Hermetically Sealing Sliding Doors
for Hospitals and Cleanrooms***

- Max w x h: 3000mm x 3000mm
- Max window size: 600mm x 600mm
- Max Air Tightness: 400 Pascal
- Max Fire Resistance: 90 mins (EI₂ 90)
- Max Door Thickness: 62 mm
- Operation: Manual or Automatic
- Applications: hospitals, laboratories, cleanrooms

315 Ideal Business Park, National Avenue, Hull, HU5 4JB

E: service@interdoor.uk

T: 01482 247 375

W: www.interdoor.uk

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MK4 Radiation Proof Hygienic

The **markus® MK4 Radiation Proof Hygienic** Hermetically Sealing Sliding Door is one of the most well-known high performance hermetically sealing sliding doors on the market for the healthcare and clean room sectors. Established in the 1960s, the **markus®** range of doors have been continually developed and one of its latest versions is the **markus® MK4 Radiation Proof Hygienic** Hermetically Sealing Sliding Door has been continually developed so that it is able to ensure a complete hygienic environment whilst retaining a very impressive aesthetic quality and providing a barrier against radiation such as is emitted from X-Rays and other forms of health scanning.

Dimensions	
max. width (W)	3000 mm
max. height (H)	3000 mm
max. window size	600 x 600 mm
max. air tightness	400 Pascal
max. fire resistance / rating	90 mins (EI ₂ 90)
max. door thickness	62mm
operation	Manual or Automatic

Components and Construction

The door leaf of the **markus® MK4 Radiation Proof Hygienic** Hermetically Sealing Sliding Door is a continuous panel with a solid core, encased in a seamless HPL face which is framed within flush stainless-steel profiles. The HPL can be finished in any colour featured in the *formica* colour range. The blade is lined with either 1mm or 2mm thick lead.

The door frames are available in stainless steel or aluminium, which are also internally lined with lead. The rail system comes with nylon bearings and is covered with either an aluminium or stainless-steel canopy. The track houses special indentations that enable the door to slide in at an angle of 45° giving the perfect seal.

The door is sealed with neoprene gaskets fitted around its perimeter and guiding and sealing cams are fitted outside the door opening. The seals, cams and track enable the door to provide a complete air and smoke tight seal.

Materials

The door blade is made of a fire rated solid core with an HPL face and is encased in aluminium or stainless-steel profiles. The frames and canopy are made of aluminium or stainless steel and the track is aluminium.

The seals are made of neoprene and are fitted around the door's perimeter. The door blade and frames are all lined with 1mm or 2mm thick lead.

Colours

The door leaf is finished in a flush HPL skin which is available in any colour featured on the *formica* colour range.

The frames and canopy are available in either aluminium or stainless steel, all of which can be powder coated to any RAL colour selected by the customer.

Operation

The operation is either manual or is available with an electrical automatic microprocessor control system with a safety photocell and an integrated safety sensor which opens the door in the case of an obstruction.

Air tightness

Similar to the **markus® MK1 Hygienic** Hermetically Sealing Sliding Door the air leakage of the **markus® MK2 Fire Rated** model has been independently tested when the door is fully closed and results up to 400 Pascals of pressure are available.

Radiation Proofing

The **markus® MK4 Radiation Proof Hygienic** Hermetically Sealing Sliding Door has successfully passed independent onsite radiation tests with BS lead thickness ranging from code 3 – 8.

Control and operation

The door can either be operated manually or can be automatically operated by way of a push button on the microprocessor control unit. A radar can be mounted on the canopy if the customer requires the door to open as people approach the door. The door can close either automatically on a timer or by way of push button.

A safety photocell and integrated safety sensor are available for safety.

Additional activation devices that can be applied to the door are available.

Optional Extras*

- lead inlay for radiation protection
- door interlock control
- flush lead lined vision panels (up to 600mm x 600mm)
- flush lead lined vision panels with integral blinds, smart glass or laser protection.

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