markus®

Hygienic Hermetically Sealing Sliding Doors

INTERDOOR
SPECIALIST INDUSTRIAL DOORS

Fire Rated *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 (EI_2 90)
- **Door Thickness:** 60 mm
- **Operation:** Manual or Automatic
- **Applications:** hospitals, laboratories, cleanrooms

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MK2 Fire Rated Hygienic

The *markus® MK2 Fire Rated Hygienic* Hermetically Sealing Sliding Door is one of the most well-known high-performance fire rated 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® MK2 Fire Rated Hygienic* Hermetically Sealing Sliding Door which is a door that provides a complete hygienic environment whilst retaining a very impressive aesthetic quality and a fire rating of up to EI_2 90.

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)
door thickness	60mm
operation	Manual or Automatic

Components and Construction

The door leaf of the *markus® MK2 Fire Rated Hygienic* Hermetically Sealing Sliding Door is a continuous panel with a solid fire rated 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 door frames are available in stainless steel and 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.
The *markus® MK2 Fire Rated* model has an internal bottom track with nylon guide.

Materials

The door blade is made of a fire rated solid core with an HPL face and is encased in stainless-steel profiles. The frames are made of stainless steel and the track is aluminium. The track is housed within a canopy made of stainless steel.
The seals are made of neoprene and are fitted around the door's perimeter. Intumescent seals are also encased within the frame and other parts of the door.

Colours

The door leaf is finished in a flush HPL skin which is available is any colour featured on the *formica* colour range.
The frames are made of stainless steel whilst the canopy is 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.

Fire Rating

The *markus® MK2 Fire Rated Hygienic* Hermetically Sealing Sliding Door has been independently tested and EI_1 30, EI_2 30, EI_2 60 and EI_2 90 results are available.

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 clear fire rated vision panels (up to 600mm x 600mm)
- flush fire rated vision panels with integral blinds, smart glass or laser protection (not available for all fire resistances)

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