

markus®

Cold Store Sliding Doors



INTERDOOR
SPECIALIST INDUSTRIAL DOORS

Fire Rated Freezer
Sliding Doors for temperatures
up to -20°C

“Feel the Difference!”

- Max w x h: 7500mm x 7500mm
- Max Internal Temperature: -20°C
- Max Int /Ext Temperature: +/- 50°C
- Fire Rating: 120 min
- Door Thickness: 120 mm
- Operation: Manual or Automatic
- Applications: Industrial freezers, cold/chill rooms, drying rooms

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MK3 Freezer Fire Rated Sliding Doors

The **markus® MK3 Freezer Fire Rated** Sliding Door is one of the most well-known high-performance sliding doors on the market for the freezer / cold room sector and was established in the 1960s. Over the years, the **markus® MK3 Freezer Fire Rated** Sliding Door has been continually developed so that it is able to retain an internal temperature of -20°C with an internal and external temperature variance of +/- 50°C whilst retaining a very impressive aesthetic quality together with a fire resistance of up to 120 minutes.

Dimensions	
max. width (W)	7500 mm
max. height (H)	7500 mm
max. internal temperature	-20°C
max. internal / external temperature	+/- 50°C
door thickness	120mm
operation	Manual or Automatic

Components and Construction

The **markus® MK3 Freezer Fire Rated** Sliding Door is constructed as follows:

Door Blade

Construction:	manufactured with interchangeable panels
Insulation:	Sandwich panel composed by multi cape of injected polyurethane foam (50kg/m ³) (CFC Free), rock wool (175kg/m ³) and calcium silicate sheets
Thickness:	120mm
Finishing:	0.8mm steel sheet lacquered white or PVC coated or in AISI 304 stainless steel
Edge Profiles:	3mm, AISI 304 stainless steel lateral bumpers
Fridge Sealing:	double profile special synthetic rubber gasket made of compact EPDM pressure mounted on rigid PVC support
Fire sealing:	double wire or special fibreglass "E" firebreak fitted over gypsum support
Bottom Guide:	galvanized steel profile
Hardware:	external lever type opener and internal articulated opener

Track

- Plastified steel profile of 5mm
- Steel profile guiding bar (50mm x 12mm)
- Steel ball bearings (75mm diameter)

Heating

- Freezer: 40W/m heating tape to 220 VAC

Frame

One part refrigerating frame and one part firebreak frame – all AISI 304 stainless steel

Refrigerating Frame:

- Extruded aluminium profiles thermal bridge free (equipped with double polyamide profile inserts), in two points of the frame
- Aluminium or ABS cap for contact between the frame and the gasket, on the whole frame perimeter
- Heating tape around perimeter

Firebreak Frame:

- Stainless steel
- Pine treated with steel coat (0.8mm) or vermiculite core (depending on application)

Bottom Cross Beam

Galvanized iron U60 profile with heating register and 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).

Freezer & Fire Performance

The **markus® MK3 Freezer Fire Rated** Sliding Door has been tested and certified by the LGAI Technological Centre. Generated results were:

- Maximum internal temperature: -20°C
- Fire Resistance: EI₂120

Control and operation

The **markus® MK3 Freezer Fire Rated** Sliding Door can be operated manually; however, it is usually 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. The operation is supplied as standard with "dead man mode".

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

- pullswitch
- key-operation switch
- radio control

Optional Extras*

- additional controls as described above
- crash bar
- electric drive unit (as described above)

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