

markus®

Cold Store Sliding Doors



INTERDOOR
SPECIALIST INDUSTRIAL DOORS

Extreme Freeze
Sliding Doors for temperatures
up to -40°C

“Feel the Difference!”

- Max w x h: 7500mm x 7500mm
- Max Internal Temperature: -40°C
- Max Int /Ext Temperature: +/- 65°C
- Max Door Thickness: 160 mm
- Operation: Manual or Automatic
- Applications: Industrial freezers, cold/chill rooms, drying rooms

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MK4 Extreme Freeze Sliding Doors

The **markus® MK4 Extreme Freeze** 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® MK4 Extreme Freeze** Sliding Door has been continually developed so that it is able to retain an internal temperature of -40°C with an internal and external temperature variance of +/- 65°C whilst retaining a very impressive aesthetic quality.

Dimensions	
max. width (W)	7500 mm
max. height (H)	7500 mm
max. internal temperature	-40°C
max. internal / external temperature	+/- 65°C
door thickness	120mm
operation	Manual or Automatic

Components and Construction

The **markus® MK4 Extreme Freeze** Sliding Door is constructed as follows:

Door Blade

Construction:	manufactured with interchangeable panels
Insulation:	High pressure injected polyurethane foam 50Kg/m ³ (CFC Free)
Thickness:	Dependant on required temperature: 60mm: +5°C 90mm: 0°C 120mm: -30°C 160mm: -40°C
Finishing:	0.8mm steel sheet lacquered white or PVC coated or in AISI 304 stainless steel
Edge Profiles:	2mm, AISI 304 stainless steel lateral bumpers
Sealing:	Compact EPDM joint profile (double profile for freezers), pressure inserted into rigid PVC support
Hardware:	external lever type opener and internal articulated opener

Track

- Extruded aluminium profile with canopy
- Ball bearings of polyamide
- Bearing's support in stainless steel

Heating

- Freezer: 40W/m heating tape to 220 VAC
- Blast Freezer: 65W/m heating tape to 220 VAC

Frame

- Extruded aluminium profiles thermal bridge free (equipped with double polyamide profile inserts), in two points of the frame
- Aluminium or ABS cap to make sure contact between the frame and the gasket of the door, on the whole frame perimeter
- Aluminium finish or powder coated in RAL colour of choice

Bottom Cross Beam

- Cold Store: galvanized iron U60 profile with guiding cams
- Freezer: 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 Performance

The **markus® MK4 Extreme Freeze** Sliding Door has been tested and certified by the LGAI Technological Centre (LGAi):

Generated results were:

- Maximum internal temperature: -40°C
- Maximum internal / external temperature: +/- 65°C

Control and operation

The **markus® MK4 Extreme Freeze** 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. Given the size of the door, 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
- key locking mechanism
- crash bar
- meat rail "slide-way"
- electric drive unit (as described above)

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