

# markus®

**Cold Store Sliding Doors**



**INTERDOOR**  
SPECIALIST INDUSTRIAL DOORS

***Sliding Doors for  
Controlling Atmospheres***

***“Feel the Difference!”***

- Max w x h: 7500mm x 7500mm
- Min Internal Temperature: -30°C
- Max Int /Ext Temperature: +/- 50°C
- Max Door Thickness: 120 mm
- Operation: Manual or Automatic
- Applications: Industrial freezers,  
Conservation rooms, ULO applications

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### **MK5 Controlled Atmosphere Sliding Doors**

The **markus® MK5 Controlled Atmosphere** 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® MK5 Controlled Atmosphere** Sliding Door has been continually developed so that it is able to retain an internal temperature of -30°C with an internal and external temperature variance of +/- 50°C whilst retaining a very impressive aesthetic quality and ensuring that the room is completely sealed and “gas tight”, perfect for applications such as conservation rooms and ULO (Ultra Low Oxygen) applications.

Dimensions	
max. width (W)	7500 mm
max. height (H)	7500 mm
min. internal temperature	-30°C
max. internal / external temperature	+/- 50°C
door thickness	120mm
operation	Manual or Automatic

#### Components and Construction

The **markus® MK5 Controlled Atmosphere** Sliding Door is constructed as follows:

##### Door Blade

<b>Construction:</b>	manufactured with interchangeable panels
<b>Insulation:</b>	High pressure injected polyurethane foam 50Kg/m <sup>3</sup> (CFC Free)
<b>Thickness:</b>	120mm: -30°C
<b>Finishing:</b>	0.8mm steel sheet lacquered white or PVC coated or in AISI 304 stainless steel
<b>Sealing:</b>	Double compact EPDM joint profile pressure inserted into rigid PVC support
<b>Bottom Guide:</b>	AISI 304 stainless steel profile
<b>Hardware:</b>	external lever type opener and internal articulated opener AISI 304 stainless steel gas tightening handwheels

##### Openable Porthole

- 600mm x 800mm observation window made of thermal glass
- AISI 304 stainless steel pressure latch
- Chrome hinges

##### Track

- 45° indentation to create hermetic seal
- Rectangular aluminium profile guiding bar
- 3mm AIAI 304 stainless steel track support

##### Wheels

- 60mm (diameter on bearings) polyamide wheels
- Stainless steel wheel heads
- Extruded aluminium profile wheel support

##### Heating

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

##### Frame

- Extruded aluminium profiles thermal bridge free (equipped with double polyamide profile inserts)
- Aluminium profiles to make sure contact between the frame and the gasket of the door, on the whole frame perimeter

##### 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® MK5 Controlled Atmosphere Freezer** Sliding Door has been tested and certified by the LGAI Technological Centre: Generated results were:

- Maximum internal temperature: -30°C
- Maximum internal / external temperature: +/- 50°C

##### Control and operation

The **markus® MK5 Controlled Atmosphere Freezer** Sliding Door can be operated manually or electrically via a control unit with 3 push buttons (open-stop-close) and a control panel that regulates the speed of opening and closing.

##### Optional Extras\*

- key locking mechanism
- pull switch, radio control
- panic bar

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