

markus®

Cold Store Sliding Doors



INTERDOOR
SPECIALIST INDUSTRIAL DOORS

VERTICAL Freezer
Sliding Doors for temperatures
up to -30°C

“Feel the Difference!”

- Max w x h: 5000mm x 5000mm
- Max Internal Temperature: -25°C
- Max Int /Ext Temperature: +/- 50°C
- Max Door Thickness: 120 mm
- Operation: Automatic
- Applications: Industrial freezers,
cold/chill rooms, drying rooms

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

E: service@interdoor.uk

T: 01482 247 375

W: www.interdoor.uk

MK6 Vertical Freezer Sliding Doors

The **markus® MK6 Vertical Freezer** Sliding Door is one of the most well known high performance vertical sliding doors on the market for the freezer / cold room sector. The **markus® MK6 Vertical Freezer** Sliding Door offers a freezer door for situations where a conventional horizontal door is not possible. The **markus® MK6 Vertical Freezer** Sliding Door can retain an internal temperature of up to -30°C whilst retaining a very impressive aesthetic quality.

Dimensions	
max. width (W)	5000 mm
max. height (H)	5000 mm
max. internal temperature	-25°C
max. internal / external temperature	+/- 50°C
door thickness	90mm - 120mm
operation	Automatic

Components and Construction

The **markus® MK6 Vertical Freezer** Sliding Door is constructed as follows:

Door Blade

Construction:	manufactured in a mono-block style with galvanized 2mm internal steel profiles with steel reinforcements
Insulation:	High pressure injected polyurethane foam 50Kg/m ³ (CFC Free)
Thickness:	Dependant on required temperature: 90mm: 0°C 120mm: -25°C
Finishing:	0.8mm steel sheet lacquered white or PVC coated or in AISI 304 stainless steel
Sealing:	Compact EPDM joint profile (double profile for freezers), pressure inserted into rigid PVC support
Hardware:	external lever type opener and internal articulated opener

Lateral Track

- 3mm AIAI 304 stainless steel
- 45° indentation to create hermetic seal
- Ball bearings of polyamide
- Bearing's support in stainless steel

Traction Mechanism

- Galvanized steel shaft and drum
- Stainless steel cable (5 safety factor)
- Gear drive with break (direct transmission to shaft)
- Unblocking lever & crank handle - manual opening

Heating

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

Frame

- Extruded aluminium profiles thermal bridge free (equipped with double polyamide profile inserts)
- Aluminium or ABS cap 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

Safety

- Safety edge on bottom of door blade
- Protection system against falling door (EN12604)

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® MK6 Vertical Freezer** Sliding Door has been tested and certified by the LGAI Technological Centre: Generated results were:

- Maximum internal temperature: -25°C
- Maximum internal / external temperature: +/- 50°C

Control and operation

The **markus® MK6 Vertical Freezer** Sliding Door can only be operated electrically. A control unit with 3 push buttons (open-stop-close) and a control panel that regulates the speed of opening and closing. Can be opened manually in the case of an emergency.

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

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