

Controlled Environments  
Middle East  
Africa  
Turkey  
Central Asia  
India

Protected by



# Cold Store Doors

## **Fire rated**



## Door specifications

The sliding doors , are available from EI30 to EI120, these doors have to be motorized,. The UL specification require minimal effort to manage the door and to operate smoothly

### Door leaf

Insulation of non flammable PIR between 2 Fireboards A1 of 15mm each

Stainless steel finish of the door leaf perimetrically .

Surface of plasticized steel sheets .

Door leaf thickness will be of 140mm.

### Door frame and tracks

Full in stainless steel reinforced

### Door accessories

Made of stainless steel.

Fire barrier UL rated foam from 3M will fix the frame into the panel or masonry.

### Gasketing

Flexible fire seal and insulation (EI 30 to EI 120).

Self-extinguishing, does not drip, does not spread flames

Intrumescent material as it expands to up to 20 times its initial volume in fire

Closed cell structure

Material type:Elastomeric foam based on synthetic rubber.

- A. Angle - shaped frame, made from heavy duty, robust and reinforced with **non flammable material** with modern German design and high mechanical strength. In accordance with HACCP standards. EASY-PASS (quick & easy assembly).
- B. DOOR leaf with insulation PIR supplied from Germany of density 42 kg/m<sup>3</sup>, with injection at heated press of 500 tonnes. Door surface made from German steel sheets 30% thicker than the competition, plasticized to a thickness of 200 µm with Sanisteel® film coating with antibacterial properties.
- C. Slide mechanism of modern design, exceptional sliding properties. Very soft closing and easy disengagement.
- D. Slide mechanism cover made from round, curved **Stainless steel** profile. It ensures perfect adhesion at the gaskets, without extra components on the floor.
- E External shutter Inox 304 of modern design, extra heavy duty lever.
- F. Border gaskets, insulating properties with beehive cells, perfect adhesion, and with door heating element installed for the defrosting.
  - Five year written guarantee.
  - Protection bar against passing pallet trucks

Stainless steel sheet

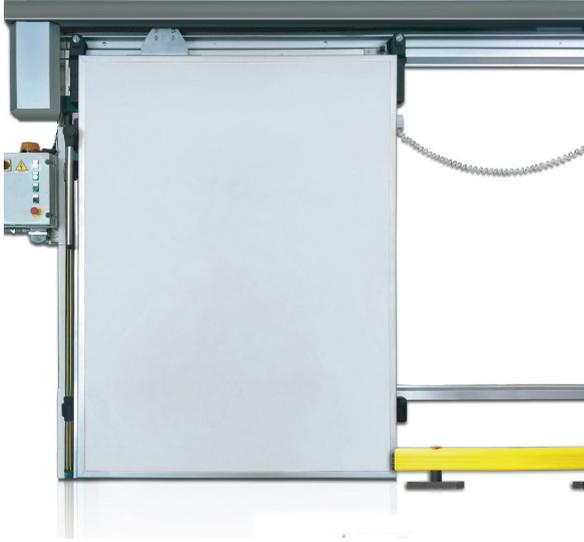
INOX 304



Key lock



## Automatic Sliding Doors FOR FIRE RATED DOORS



### DESCRIPTION

All material at the electric board will be from Schneider electric, UL certified.  
The motor is UL certified of Italian origin .

Siemens UL rated Logo LOGO 8 24VDC 6ED10521HB000BA8 will be added to the control panel, so that the electrical operation of the door is fully controlled. The openings will be counted into it.

Extension is included for fire doors Siemens UL rated LOGO! DM8 24R that enables the closing of the door in the event of the signal from the central fire alarm system.

Control panel will be in a stainless steel box.

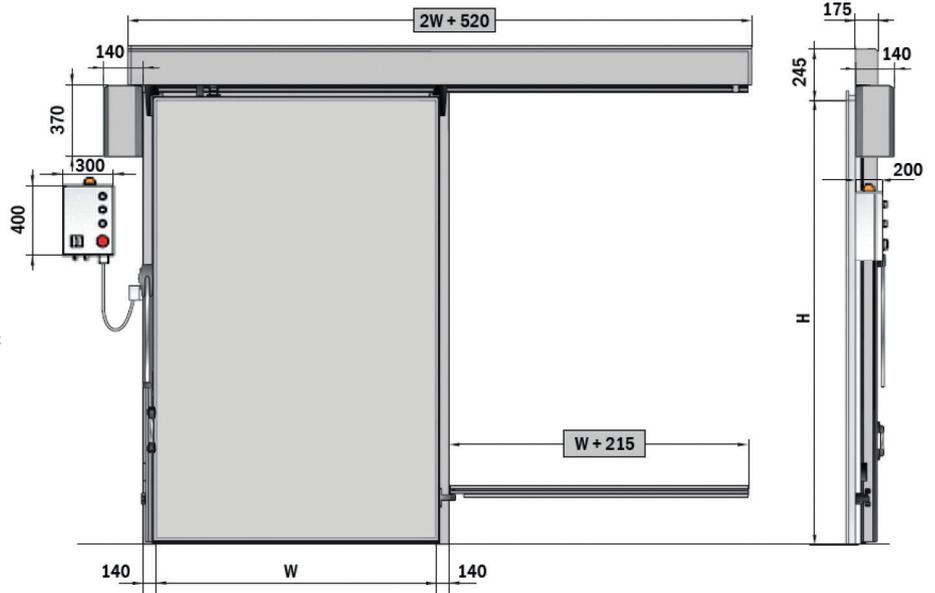
Optionally , communication extension can be added , so that the situation of the doors can be managed and communicated to the person in charge via sms or email.

The standard specifications of sliding doors will also still be applied at the fire doors as following :

- A. Automatic activation of sliding door via a mechanism with a 3-phase motor connected to a multifunction panel. Switchgear IP 56 is suitable for installation in a moist environment and includes an electronic circuit for controlling the functions and an inverter to control the paths during operation of the opening-closing and the necessary needs in electrical power in respect to the security settings.
  - B. All automation system is pre-cabled therefore the connection of the board becomes easy through a multipolar connector which is located at the bottom of the board. There are already pre-installed factory settings which are easily changed depending on the needs of each user.
  - C. Speed is set to 0,27 m/sec (as per regulations) and the engine has a reversible reducer. The speed can change easily from the board.
  - D. The primary safety device for crash protection is a sensitive bar resistant type, located on the vertical edge of the door panel, which in case of impact with an obstacle, automatically stops the door and reverses motion.
  - E. The controls of the STOP (end of movement) during the opening and closing is activated by a micro switch. The transmission is through a chain with adjustable power and not with tapes for cost reasons with breakage problems.
  - F. A yellow light is flashing signals that the door is in motion. Besides the many arrangements for opening – closing the door from the board, two cords connected to switches are placed in front and behind the door (at desired distances) to facilitate the operator of the forklift at the entrance and exit of the cold room.
  - G. In case of power failure the door is operated manually. In case of the oversized dimensions , the doors may need a porthole for pedestrian passage, if required by the UL.
- This is a safety measure in the event of a power failure , when somebody is inside the cold room. The UL specification is that minimal strength should be applied for the door to operate in case of power failure.
- In the oversized double leaf doors we specified 2 motors, one for each leaf.



Two safety photocells which in case of obstacle detection during duration of closing, they revert the door motion to avoid collision.



Options



Remote control with one or more remote controls, push-button for opening-closing and security mushroom, arranged to anywhere in or out of the chamber. It is also provided opportunity for partial opening.



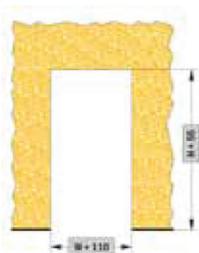
Motion detector (radar) for automatic opening of automatic door with identification of people or vehicles.



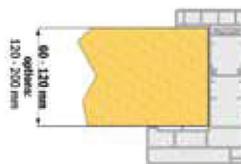
Security lock which activates the opening switches (remote control, opening cords, pushbutton) with opportunity of evacuation from inside, even if the door is locked.

Available

- A) Possibility of partial opening for the passage of pedestrians
- B) Mechanism of silent mode



Hole dimensions on panel for mounting of frame and door



Horizontal section of the PVC frame that covers the panel



## Certifications

The Polidoor by kingspan products are certified with ISO 9001: 2008. The products are certified with CE in accordance with European Directive 89/106/ EC.



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