

ARCHITECTURAL SPECIFICATION

COLDSAVER RAPID ROLL DOOR

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DESCRIPTION

The high speed roll door is a DMF Series COLDSAVER door, constructed from modular proprietary aluminium extrusion, with a surface clear anodized, or option of selected powder coating colour.

An integrated PVC seal, providing optimum sealing of the door panel. Located to front and rear column location, and shall be suitable for sub zero temperatures.

The door panel itself is manufactured from a minimum 900gsm Polyester reinforced, fire retardant PVC, coated with UV absorbers. The panel colour to be selected from 12 colours, and is to be constructed in a pocketed formation to allow the insertion of 15mm or 20mm insulation neoprene sections.

A dual auto return safety PE beam shall be mounted inline at approximately 400mm and 700mm height from the bottom, enclosed on yellow brackets to the front door column faces, and provisions for the option of pressure sensitive bottom rail with auto reverse. This shall be by RF control connected to an adjustable diaphragm air switch.

The bottom rail shall comprise of extruded aluminium rail with pneumatic tube, encapsulated within the guide columns, and sealing capabilities to floor with complete enclosure in bottom PVC skirt loop in safety yellow.

The door shall be operated by a fully programmable single phase HMI PLC inverter controller system with variable speed control, soft start /soft stop facilities, and variable hold open timer. Door positioning to be by absolute encoder reader direct mounted to the gearbox shaft.

The control system shall operate from a 240 volt single phase outlet rated at 10-20 amps with RCD Type 4 on the circuit. The control housing is to be constructed from rust proof plastic or polyester, with standard controls on the box to include Stop, Power light indicator and Up and Down controls.

It is also to be adaptable to suit the required Battery Backup unit providing 5-10 operational cycles, in the event of a power failure. This is to provide full operation of all door controls.

The motor drive is to be a 3 phase geared motor with electric brake. Door speeds to be adjustable with standard opening speeds of 1.2m/sec, and closing set at 0.7m/sec.

The door is to have provision for freezer applications, of full column heating and option of heating system to be fitted into the floor across the full width of the opening. The silicone heating cabling to have minimum power 40W per metre of heating.

An included dust cover is to be provided, with design dependent on internal or weather exposed application.

The door controllers shall also be capable of receiving all recognised forms of activation options (i.e. push buttons, induction loops, radio control, motion sensors etc) and shall include inbuilt facilities for door interlocking, to suit airlock applications.

OPTIONS

- Custom manufactured to sizings
- Powdercoated finish to standard Dulux colours
- Coloured finishes to door panels
- Heater cabling for freezer applications
- UPS battery backup
- Activation forms
- Additional safety sensors
- Servo control
- Interlocking
- All weather top cowling

AS SUPPLIED BY

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