

# Roller Shutter Services Ltd

Tel. 01744 732 373

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www.rollershutterservices.co.uk

## PAL Roll-up High Speed Door

### Overview

Maximum standard dimensions 6000 wide x 5000 high.

The MIO-PAL 150 is a High Speed Roll-up Door particularly recommended for transit areas on large industrial and commercial sites.

Steel tubes reinforce the twin-moulded polyester fabric curtain. This particular model is the general "workhorse" of our range, used both for internal applications and externally, especially when greater wind-resistance is required.

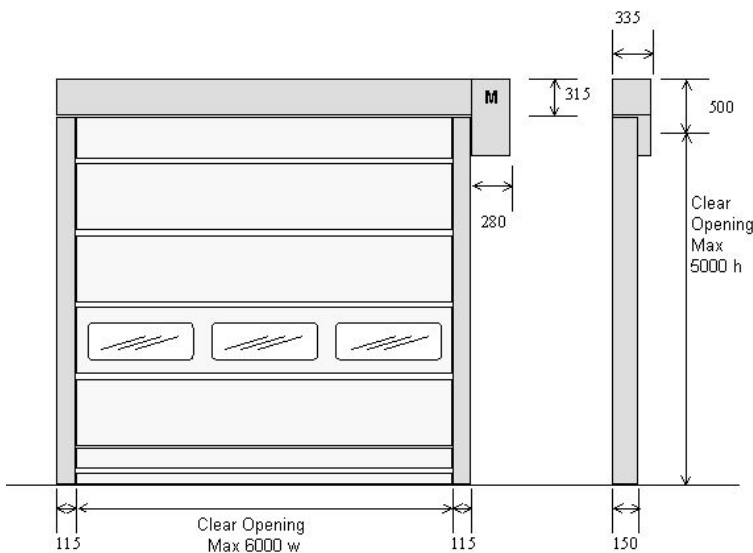
A Breakaway Bottom Edge is available on this model up to 4000mm wide

As with all our range of products, a wide variety of extras/options are available



### PAL 150 Standard Package includes:

- Self-supporting Galvanised Structure with Hood and Motor Cover
- One row of Vision Windows
- Manual emergency opening by pull cord and rod at ground level
- Standard Control Panel IP55 (Up Button & Red Stop/Emergency Button)
- Two pairs of Transmitter/Receiver type Safety Photocells (IP55)
- Bottom Safety Edge
- Wind Load (New regulation) UNI EN 12424 Class 1 (External Rating)
- A Breakaway Bottom Edge is available up to 4000mm wide



Please ask for details of PAL models with counterbalance for emergency lifting and the pneumatic version for explosive environments



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## Technical Specification

### Self-supporting structure

Made from special galvanised steel profile, designed to ensure durability and protection in all situations, even against accidental impact. Full width canopy and motor cover as standard.

Optional - Structure made from AISI 304 stainless steel or RAL painted.

### Curtain

Made from trevira-type twin-moulded polyester fabric, self-extinguishing Class 2, with pockets for strengthening tubes. Curtains available in a selection of colours. Optional – 3mm Insulated Curtain.

### Safety photocells

Two Pairs of IP55 transmitter/receiver type UNI 8612 compliant. Stops downward movement of the door and returns it to the open position should any obstacle be detected by the threshold beam. Further additional pairs as required. IP57 rated also available.

### Vision Panels

One row of transparent PVC windows for safety and interior lighting. Optional Additional rows of windows.

### Drive shaft

Made from tubular galvanised steel, diameter 152 mm, flanged. Rotates on bench supports with self-aligning ball bearings.

### Motor assembly

Three-phase self-braking assembly powered by 220/380 V, with power ratings from 0.75 to 1.5 kW. Comes with safety heat detector. Electromagnetic lock brake. Irreversible gear-motor, worm screw type, directly driven by drive shaft. Cam limit-switch assembly.

### Opening/closing speed

Up to 0.8 m/sec.

### Bottom Safety Edge

Electro-optical System System interrupts door descent and ensures door reopening in the presence of obstacles in the doorway. NB When the Electro-pneumatic System is used, the safety edge is positioned on a special aluminium profile bottom bar.

### Wind strengthening bars/Wind Resistance

Made from tubular steel, these bars guarantee perfect closing of the curtain. Rated - Wind Load UNI EN 12424 Class 1 (External Rating), equates circa 60 km/h. Optional upgrade available. Wind Class indicated on CE plate, as now required by New Regulations.

### Sliding mechanism

Ultra-silent sliding mechanism, featuring lateral guides with twin rubber seal guides

### Emergency opening

In the event of power failure or malfunction, lifting of the door is by brake release and a snap insertion manual wind, both at user-height.

### Control Box/Board

On the Standard control box is an up push button and emergency push/lock button. On the **(Optional)** Plus control box is a lockable power switch, up and down push buttons, emergency push/lock button, and an automatic/manual selector. The box itself is a robust enclosure (protection degree IP 55, in compliance with updated CEE/CEI 44/5 and DIN standards). IP 65 compliant push-button board. The solid-state microprocessor digital electronic instrument panel affords easy programming and rapid replacement operations in the event of faults, as well as ensures interfacing with remote controls and timer programming. A self-diagnosis circuit detects and indicates malfunctioning by means of dedicated LED lamps. The board also features a safety heat detector.

### Electrical system

Pre-wired with rapid external connectors for quick, safe connection between the control board and the mains power system.

### Optional opening devices

A full range of remote controls are available e.g. mono/stereo radar, pushbuttons, radio control, induction loop system, pull cord, etc.

### Optional Interlock logic

For interfacing a series of doors.

### Optional partial opening function

For automatic door opening to pre-selected height.

## Warranty

The manufacturer gives a standard warranty of 12 months from delivery date on every product.

**Product compliant with EC Directive 89 / 392 and new EN 13241-1.**