

## Overview

Recommended as a reliable general-purpose fast door for traffic flow areas on busy sites.

The PAT 100 is robust, competitively priced and comes with interchangeable sections, which in the event of curtain damage, can be easily replaced.



The **PAT 100 INOX** (AISI 304 Stainless Steel) is designed to ensure the highest hygiene standards, for applications in the food, chemical and pharmaceutical industries.

The **PAT 100 Pneumatic** with totally pneumatic motor has been specifically designed for applications in explosive environments.

The **PAT 100i** is designed for internal use (with a wide dimension max mm 3000) for a pedestrian or hand trolley passage. This model is equipped with an anti-crash break through lower section. In case of accidental impact the lower section flows outside the uprights and can be easily inserted again by the user.

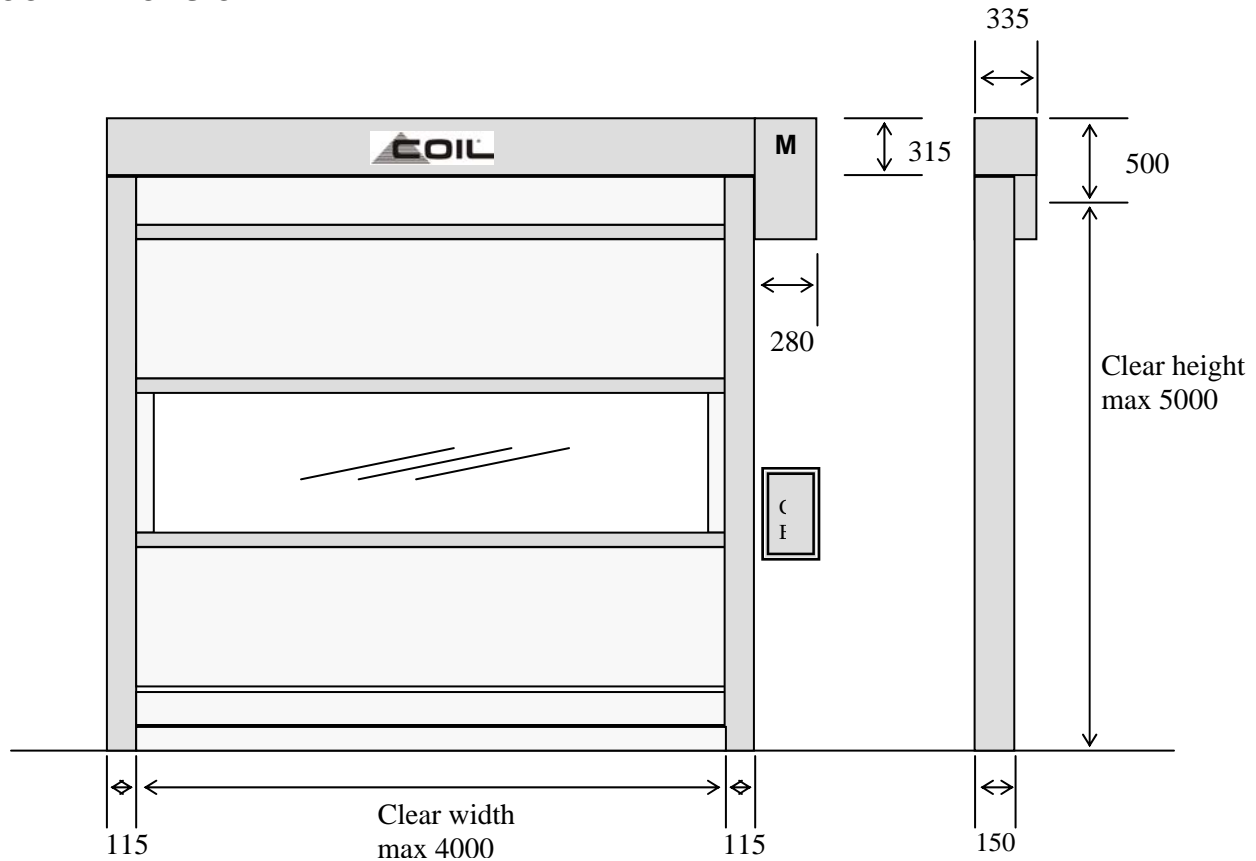


The **PAT 100 Anti-crash** is designed for both external and internal. This model is equipped with an anti-crash break through lower section as well as the PAT100i but it can reach the maximum door space dimension up to mm 4000 x H 5000. It is suitable for both External and Internal application.

The **PAT 100 AR** delivers the most reliable operation for an Hi Speed door. The self-repairing system allows the automatic reinsertion of the curtain inside the uprights in case of accidental impact. It has been designed for a forklift and/or vehicles passage with a maximum free door space dimension of mm 4000 x H 5000. It is suitable for both External and Internal application.

**Product compliant with EC Directive 89 / 392**

## Door Dimension



## Technical Specification

- **Self-supporting structure**  
Made from special galvanised steel profile, dimensioned 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 central section. Door panels are interchangeable for rapid, easy replacement operations in the event of damage. The panels are connected by anodised extruded aluminium joints. Curtains available in a selection of colours.
- **Vision Panels**  
One transparent PVC section (750 mm high) for safety and interior lighting. Optional Additional transparent PVC sections. Optional Completely transparent version (up to 3000 x 3000).
- **Anti-crash Lower section**  
The optional break-through lower section allows an easy recover of the curtain in case of accidental impact. The bottom part of the curtain goes off the uprights and then it can be inserted again manually. **PAT100i** has the Anti-crash lower section up to 3000mm wide and it's designed for Internal Use. **PAT 100 Anti-Crash** has the Anti-crash lower section up to 4000mm wide and it's designed for both External and Internal Use.
- **Self-Repairing curtain**  
**The PAT100 AR** delivers the best reliability for a Hi Speed door. In case of accidental impact the curtain goes off the uprights and then automatically comes inside again at the following closing cycle.

Maximum free passage of the door can be 4000 x H 5000 and it can be for both External and Internal use. The self repairing model has one transparent window for visibility instead of the transparent section.

- **Wind strengthening bars / Wind Resistance**  
Made from shaped anodised aluminium, these bars guarantee perfect closing of the curtain, even in the event of negative pressure or wind speeds of up to 60 km/h. (Calculated at maximum opening dimension for standard model except the PAT100i version with anti-crash lower section that is designed for internal use only).
- **Safety photocell**  
One Pair of 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. Optional Additional pairs as required by choice, or current Health and Safety Standards. Optional Photocells up-rated from IP55 to IP57.
- **Optional Bottom Safety Edge**  
Opto Electronic with signal amplifier interrupts door descent and ensures door reopening in the presence of obstacles in the doorway. Not available with Anti-Crash or Self-Repairing models.
- **PT Control Box/Board**  
On the Standard control box is a up push buttons and emergency push/lock button. On the 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.
- **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.
- **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.
- **Drive shaft**  
Made from tubular galvanised steel, diameter 152 mm, flanged. Rotates on bench supports with self-aligning ball bearings.
- **Irreversible gear-motor**  
Oil-immersed, worm screw type, directly driven by drive shaft.
- **Sliding mechanism**  
Ultra-silent sliding mechanism, featuring lateral guides with twin rubber seal guides.
- **Motor assembly**  
Three-phase self-braking assembly powered by 220/380 V. Comes with safety heat detector. Electromagnetic lock brake. Cam limit-switch assembly
- **Electrical system**  
Pre-wired with rapid internal connectors for quick, safe connection between the control board and the mains power system.
- **Opening/closing speed**  
0.7 m/sec. PAT100i delivers up to 1m/sec.
- **Optional partial opening function**  
For automatic door opening to preselected height.
- **Optional bottom bar**  
Aluminium profile with rubber seal. Note: this item is standard when the Bottom Safety Edge is used.

- Optional Interlock Logic  
For interfacing a series of doors.

## **PAT 100 Pneumatic version for use in explosive atmospheres**

### Special features of the pneumatic version:

#### **Motor assembly**

Reversible pneumatic motor with 1.1 kW at 3,000 rpm, pressure supply of 7 bar.

#### **Safety rib**

With twin pneumatic signal amplifier; interrupts door descent and ensures door reopening in the presence of obstacles in the doorway.

#### **Pneumatic system**

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

#### **Control board**

Housed inside a robust enclosure (protection degree IP 55), operates to 6 Atm. Comes complete with pressure reducer and lubrication assembly, 95% oil mist filter. Duty ports, open/close operation push-buttons and manual/automatic selector switch. Timing logic for programming between 0 and 30 sec. Pneumatic rib control with adjustable pause time.

#### **Emergency opening**

Air tank with 100 litre capacity

#### **Opening speed**

approx. 0.5 m/sec.

#### **Accessories**

Pneumatic push-button  
Pneumatic chain  
Pneumatic pressure device

#### **Product compliant with EC Directive 89 / 392**