

## Overview

PAT 100 designed for heavy traffic, is a sturdy, reliable rollup door with a competitive price. A compact framework makes PAT 100 easy to install and reduces the possibility of casual collisions. The flexible curtain has an interchangeable section construction which allows a simple maintenance and low overhead costs.

### SPECIAL VERSIONS

#### **PAT 100 INOX**

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

#### **PAT 100 Pneumatic**

with totally pneumatic motor has been specifically designed for applications in explosive environments.

#### **PAT 200 Anti-Panic**

In case of power failure, a counter-balance spring inside a jamb unlocks the motor brake and allows the curtain to raise automatically, or by a manual side lever. This system can be hooked up with central safety logic, e.g. central fire fighting systems.



#### **PAT 100 AR**

Equipped with an anti-crash break through lower section it delivers the most reliable operation for a Hi Speed Rollup Door.

The self-repairing system allows for an automatic insertion of the curtain in the side tracks in case of accidental impacts without interrupting its operation.

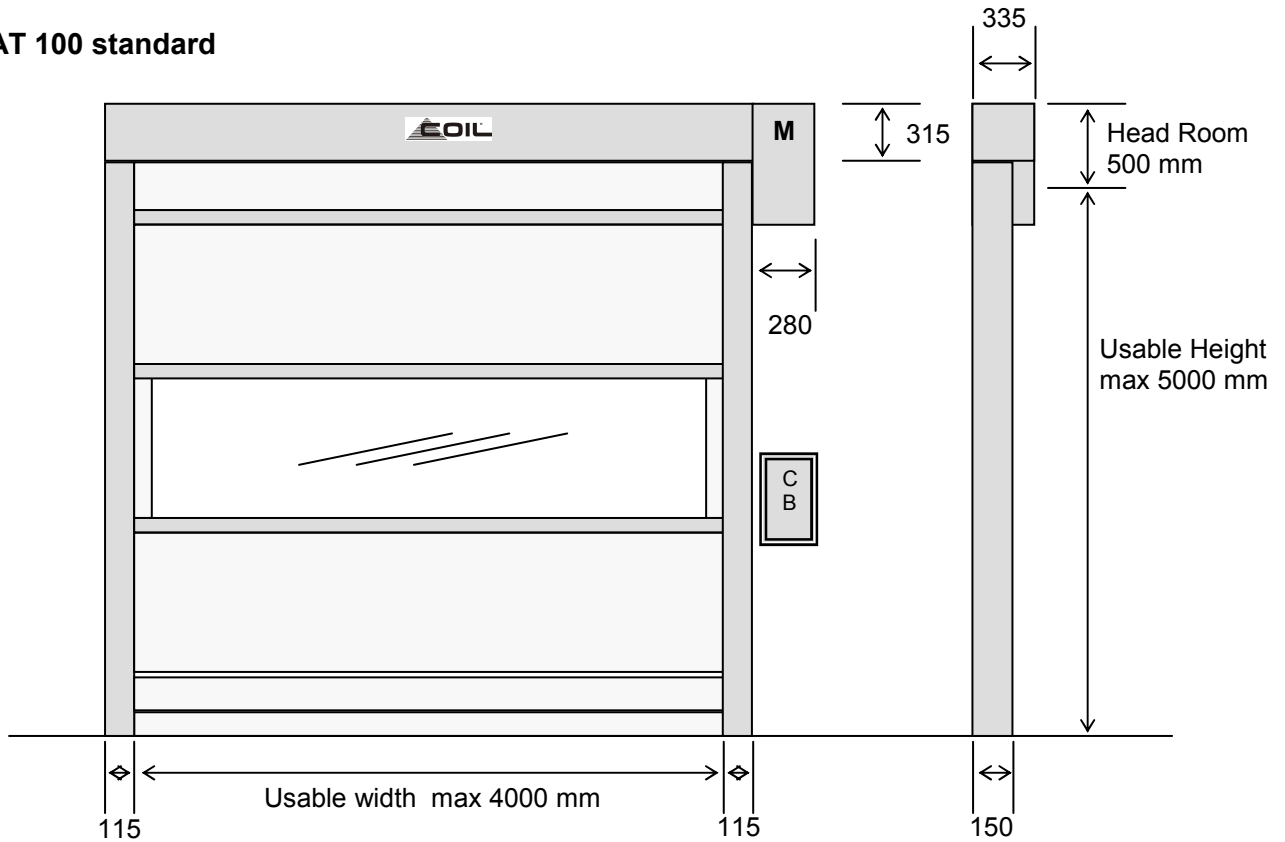
Designed for both external and internal applications and a heavy forklift and/or vehicles traffic, with an usable open space of max. mm 4000 x H 5000.



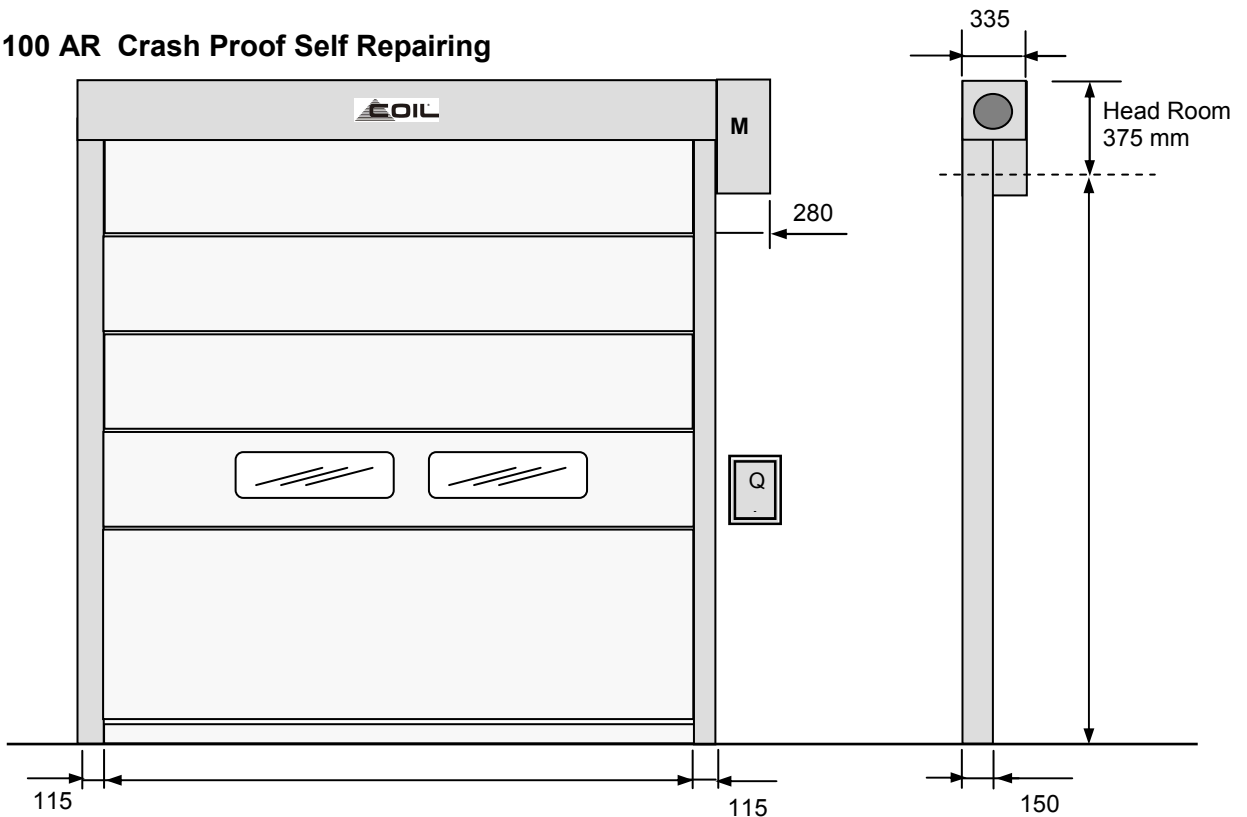
**Product compliant with EC UNI EN 13241-1 Safety Regulations.**

## Door Dimension

### PAT 100 standard



### PAT 100 AR Crash Proof Self Repairing



## Technical Specification

Self-supporting structure	Made of sturdy, galvanised steel profile, sized to ensure durability and protection in all situations, even against accidental impacts. Full width drum and motor box cover. Optional construction made of AISI 304 stainless steel or RAL painted galvanised steel..
Drive shaft	Made of tubular galvanised steel, diameter 152 mm, flanged. and rotating on side supports with self-aligning ball bearings.
Motor assembly	Three-phase self-braking assembly running on 220/380 V. 50 Hz power. Complete with safety overload detector. Electromagnetic lock brake. Cam limit-switch assembly
Non-reversible gear-motor	Oil-immersed, worm screw type, directly driven by the drive shaft
Opening/closing speed	0.7 m/sec. PAT100 AR (optional high speed version up to 1m/sec)
Curtain	Made of Class 2 self extinguishing double layer laminated polyester fabric, with a clear central section. Door panels are interchangeable for quick, easy replacement in the event of damage. The panels are inter-connected with anodised extruded aluminium profiles. Curtains are available in a selection of colours.
Vision Panels	One transparent PVC section (750 mm high) for safety vision and interior lighting. Optional additional transparent PVC sections., or a fully transparent version up to 3000 x 3000 mm.
<b>Anti-crash Lower section</b>	The optional break-through lower section allows an easy recovery of the curtain in case of accidental crashes. The bottom part of the curtain which may exit the jambs can be inserted again manually. <b>PAT 100 Anti-Crash</b> has the Anti-crash lower section up to 4000mm width and it's designed for both External and Internal applications.
<b>Self-Repairing curtain</b>	<b>The PAT100 AR</b> delivers the best reliability for a Hi Speed door. In case of an accidental impact the curtain exits the jambs and then automatically returns inside the tracks to complete the closing cycle. Maximum usable door passage is 4000 x H 5000mm and the door is fit for both External and Internal use. The self repairing model has one transparent window for visibility instead of a fully transparent section
Wind force resisting horizontal bars	Made from extruded anodised aluminium, these bars guarantee perfect closing of the curtain, even in the event of negative pressure or high wind speeds. Wind Resistance UNI EN12424 Class 0/1 (Calculated at maximum door opening dimension for standard model).
Sliding mechanism	Ultra-quiet curtain sliding mechanism, featuring side track profiles with twin rubber seal guides
Optional safety bottom bar	Aluminium profile with rubber seal. This item is standard when the Bottom Safety Edge is used
Emergency opening	In the event of power failure or issues, the door lifting occurs by a brake release and a manual snap wind insert, both at user-height
Safety photocells	One Pair of transmitter/receiver photocells compliant with UNI 8612 regulation. This stops the downward door travel makes it returns it to the open position should any obstacle be detected by the threshold beam. Optional addition photocells pairs if required, or if specified by current Health and Safety Standards. Optional Photocells up-rating from IP55 to IP57
Optional Bottom Safety Edge	Opto Electronic with signal amplifier stops the door descent and ensures door re-opening when the presence of obstacles in the doorway is detected NOTE. <u>This is NOT available with Anti-Crash or Self-Repairing versions.</u>
PT Control Box/Board	The Standard control box is fitted with an UP push buttons and an emergency Push/Lock button. For the Plus control box there is a lockable power switch, UP and DOWN push buttons, Emergency Push/Lock button, and an Automatic/Manual selector switch.. The box itself is a sturdy, waterproof casing rated IP 55, in compliance with updated EC/CEI 44/5 and DIN standards), with an IP 65 compliant push-button control panel. The solid-state microprocessor digital electronic instrument panel affords easy programming and access if required; it also ensures interfacing with remote controls and timer programming. A self-diagnosis circuit detects and indicates any issue by means of dedicated LED lamps. The board also features a safety overload/heat detector
Optional opening devices	A full range of remote controls is available, such as mono/stereo radio waves, pushbuttons, radar control, induction loop system, pull cord, etc
Optional partial opening function	For automatic door opening stopping at a selected height
Optional Interlock Logic	For interfacing a series of doors
Warranty	COIL. provide a standard warranty of 12 months from delivery date on every products. In case of failure, parts will be replaced. Delivery of the new part will be after receiving the original one
	Product compliant with EC Directive UNI EN 13241-1

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

### **Special features of the pneumatic version:**



#### **Motor assembly**

A reversible pneumatic motor rated 1.1 kW at 3,000 rpm, plant air supply of 7 bar.

#### **Safety bottom bar**

A signal amplifier inside twin rubber chambers interrupts the door descent when hitting an obstacle in the entry and ensures door re-opening..

#### **Pneumatic system**

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

#### **Control board**

Installed inside a robust IP 55 rated casing, the pneumatic system can operate on 6 Atm. plant air.. The system includes a pressure reducer-regulator and a lubricator assembly with a 95% oil mist filter. Operating controls for Open/Close functions, push-buttons and Manual/Automatic selector switch. Timing logic for a program between 0 and 30 secs. Pneumatic control with adjustable pause time for the safety bottom bar.

#### **Emergency opening**

Air tank with 100 litre capacity

#### **Opening speed**

approx. 0.5 m/sec.

#### **Accessories**

Pneumatic push-button  
Pneumatic chain

