

COIL



PIC Series

Fold-up door

The fold-up high speed door is particularly suitable for the automatic opening and closing of compartments subject to heavy traffic and where a high resistance to wind pressure is required. This resistance is ensured by a series of steel tubing inserted into specific sleeves heat sealed to the curtain.



Thanks to its opening/closing speed and high tightness, fold-up door PIC limits heat loss, with a consequent improvement of the working environment conditions and a considerable saving on energy costs.

The upwards curtain travel is carried out by lifting belts which fold and collect the door curtain sections progressively up to the door header.

The rapid fold-up doors are highly resistant to atmospheric agents and dirt and are built to guarantee reliable operation even at temperatures below zero. The self-supporting structure is made of a special galvanised steel profile; it can be requested in AISI 304/316 stainless steel or painted galvanised steel (RAL colours).

With low maintenance requirements, fold-up doors also have low life cycle costs. They can be manufactured to the required dimensions with various frame thicknesses depending on the door size.

The supporting structure of the door does not take up any space on the sides or inside the building, as the door moves straight upwards.

Instead of the basic Trevira fabric, various special fabrics are available. A thermally insulated fabric will keep the internal temperature constant, saving money both in cold conditions than hot. A break-in-proof fabric will keep out the unauthorized visitors, while a translucent fabric allows 48% of the light to pass through.





PIC 50 and 75

Self-supporting structure made of special galvanized steel profile or optional AISI 304/316 stainless steel or painted galvanized steel (RAL colours). Motorisation can be lateral (Right or Left PIC50) or front mounted (Right or Left PIC75).



Technical features

Self supporting framework

Made of sturdy galvanised steel profile, sized to ensure durability and protection in all situations, even during accidental impacts.

Winding shaft

Made of galvanized 152 mm dia. steel tube, rotating on supports fitted with self aligning ball bearings. Header made of galvanized steel. For doors wider than mm.7000 a double shaft with central support is used.

Framework options

Framework can be built using AISI 304 Stainless Steel or galvanized steel painted in RAL colors.

Drive motor

Sideway position (right or left) for model PIC50. Front side position (right or left) for PIC 75.

Motor assembly

Three phase self braking motor running on 220/380 Volt 50 Hz. power (standard 380 V) rated from 0.6 to 4 kW, complete with safety overload detector. Safety rating IP 55. Cam type end-stroke switch and electro-magnetic lock brake.

Opening speed

Up to 1.0 m/sec.

Non reversible gear reducer

Forced lubrication with variable viscosity. Worm screw mounted directly on to the winding shaft.

Flexible curtain

Single piece flexible curtain made of "Trevira" type, dual side coated, Class 2 self-extinguishing polyester fabric, fitted with sealed sleeves for the reinforcing tubes and guide rings for the traction belts movement. There are minimum 3 lifting belts per curtain for extra safety in case a curtain falls due to breaching of one belt. Large transparent PVC inspection windows. Variable number of sections with viewing windows depending on door size (one window row per section is standard). Basic curtain color is Orange. Other colors are available.

Curtain travel

Very quiet operation thanks to the dual rubber seals fitted on to the side tracks.

Wind resisting bars

High wind pressure resistance is ensured by a series of steel tubing inserted into specific sleeves heat sealed to the curtain.

Optional reinforced bottom rail

Made of solid aluminum profile fitted with an air tight durable rubber seal.

Safety Features

Emergency opening

In case of power outage or a break down, the door opening is ensured by a special manual control located at a suitable operator height. An optional gear box with manual winch is available.

Safety photocells

A pair of photocells with UNI 8612 standards, will positively stop the curtain descent when the photocell beams detect an obstruction in the doorway and will re-open the door.

Door fall-preventing device

The current safety regulations for all fast vertical travelling doors require a system preventing their fall in case of breakdowns. PIC 50/75 doors are fitted with a "no-fall curtain" system which is connected to the non reversible reducer mounted directly on to the winding shaft.

Optional bottom safety edge

Up to max. 4000mm door width, an opto-electronic sensor is inserted into one bottom rail rubber profile and an alternate version with dual pneumatic signal amplifiers ensure a prompt stop of the door when hitting an obstacle, and will reverse its travel direction immediately.

Optional additional set of photocells

These can be installed on a higher level than the standard photocell configuration.



Electrical system

Fully prewired, with standard terminal block for connections between control panel and remote utilities (motor, photocells, commands, etc.), using electrical ducts.

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 partial opening function

For automatic door opening stopping at a selected height.

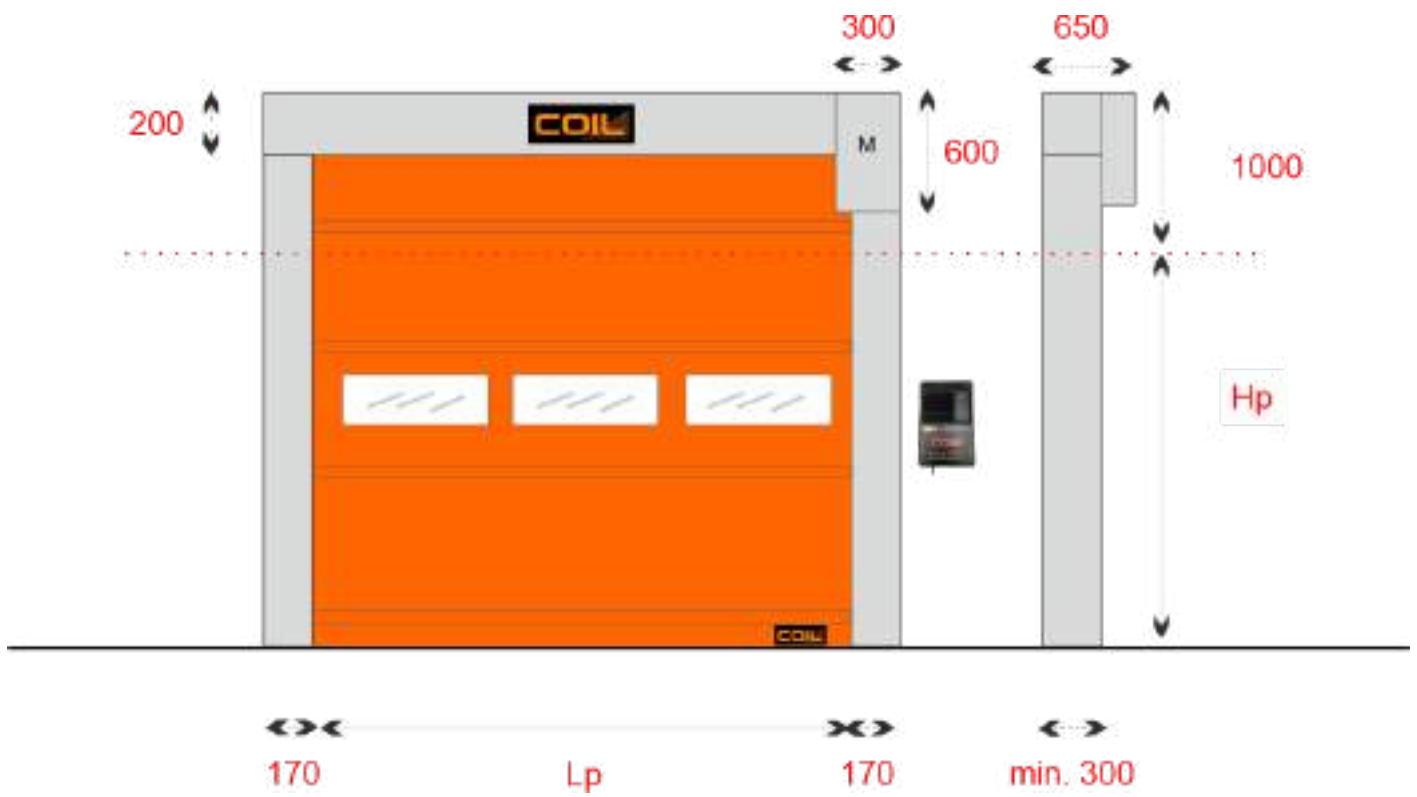
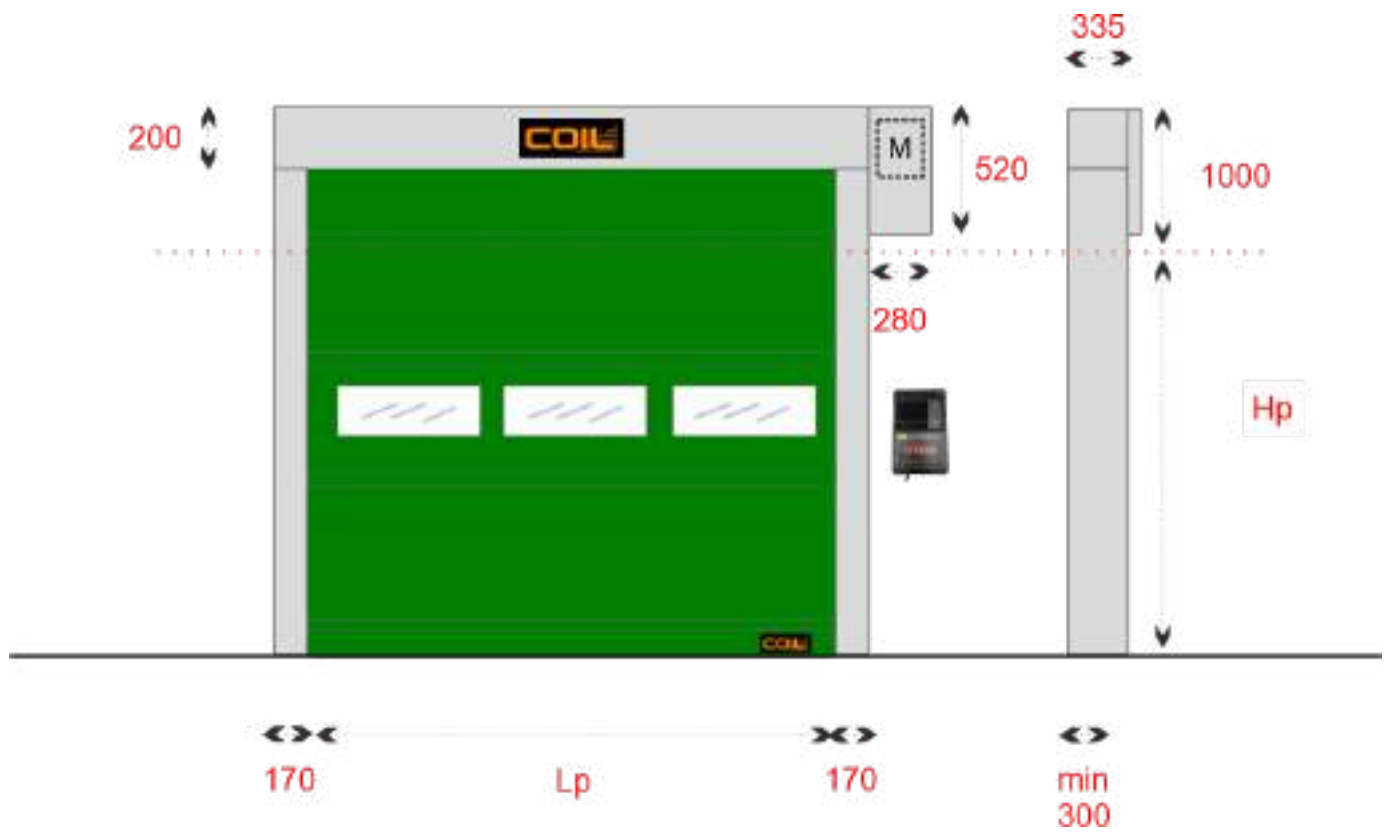
Electrical box type PLUS optional

In aggiunta allo standard : selettore Manuale/Automatico, pulsanti di salita/discesa per comando a presenza uomo.

Optional interlock logic

For interfacing a series of doors.



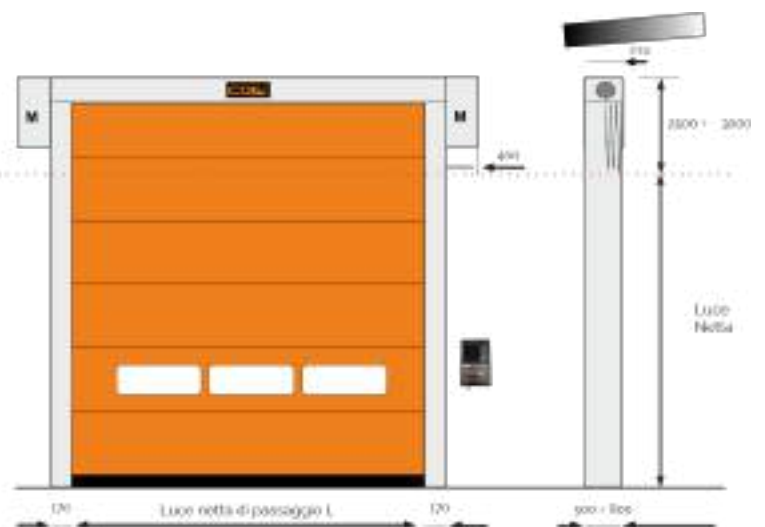




Special version

The massive **PIC AluTube** and **MaxiDoor** model upfolding doors are designed for external installations on very large doorways up to a free transit width of 15 meters (50 ft) for AluTube and up to 30 mts (100 ft) for MaxiDOOR, both with single piece or consolidated curtains. AluTube and MaxiDOOR curtains can stand wind pressures up to abt.450 pascal, equivalent to EN 12424 Class 2, part of the EN 13241:2016 standards.

The special aluminium structure with newly designed uprights, allows to realize automatic closures of this size at affordable costs and comparable to a normal industrial door.



Warranty

Manufactured with the best electronic materials and components, PAT 100 doors are tested in the most severe applications in industry and commerce and are covered by a standard 12-month warranty.

Certifications

Product in compliance with the product standard UNI EN 13241:2016 Industrial and commercial closures. All COIL doors are supplied with original CE certificate.

CE certification ensures that construction and design of the product complies with requirements of the following safety directives:

- UNI EN 13241:2016 Product standard for Industrial and Commercial Closures
- 305/2011 Construction Products Directive
- 2014/35/EU Low Voltage Directive or LVD
- 2014/30/EU Electromagnetic Compatibility Directive or EMC Directive
- 2006/42/EC Machinery Directive
- UNI EN 12604 Mechanical aspects
- UNI EN 12453 Safety in use of motorized doors
- UNI EN 12424 Wind load resistance

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