

**COIL**



## STAR 250

Roll-up door  
counterbalanced

Compact, high-speed design. The mantle can be with interchangeable sectors completely transparent or rigid composite. The mechanics and the control panel are inserted inside the structure, it is easy to place indoors, with the possibility of installation within door jambs.



## Curtain

The STAR 250's flexible curtain is available in different versions depending on the application:

- Standard made of tough double coated polyester fabric, self-extinguishing Class 2 with clear central section with central sector in transparent PVC (h 750 mm) for visibility. Door panels are interchangeable, for a quick and easy replacement in case of accidental impact of the damaged part only. Curtain is available in different colours
- Completely transparent made of PVC (model STAR 250 Plus)
- For food environments made of special rigid composite fabric, according to FDA regulations, with transparent PVC sector for visibility (STAR 250 N and Plus)

### Curtain Sliding mechanism

Smooth , quiet curtain slide operation, featuring lateral tracks with twin rubber seal guides.

### Wind bars

Special anodised aluminium bowed horizontal bars guarantee a curtain tight closing even in the event of negative pressures.

### Wind Load Resistance

In accordance with UNI EN 12424-Class 01 Standard.

## Curtains options

### Additional sectors in transparent PVC

Door can be equipped with two additional transparent sectors to the standard one, to improve both the visibility and the illumination of the compartment.

### Bottom reinforcing bar

Made of sturdy aluminium profile with rubber seal.

## Special versions

STAR 250 Plus made of AISI 304 stainless steel solves the need for sanitization and guarantees maximum environmental hygiene, for example in the food, chemical and pharmaceutical industries. The completely transparent flexible curtain with interchangeable sectors, allows to not limit the brightness of the rooms where it is installed.

## Framework

### Self-supporting Framework

Made of special galvanised steel sections, with easy jamb opening and top box removal feature, for drum inspection or maintenance. Designed to fit either inside the entry opening or face-fixed.

### Winding Drum

Drive shaft made of galvanised 152 mm dia. flanged steel tube rotating on bench supports with self-aligning ball bearings

## Framework option

### Self-supporting Framework

Frame can be manufactured in stainless steel AISI 304/316 or painted RAL.

## Drive unit

Fitted inside the door framework. A three-phase self-braking assembly motor runs on 220/380 Volt50 Hz. with power rating of 0.6 kW. The motor is complete with a safety overload/heat detector. Optional two-phase speed motor.

## Opening/closing speed

Up to 1.0 m/sec..

## Electromagnetic lock brake

With non-reversible gear-motor, oil-immersed, worm screw type. Cam limit-switch assembly.



## Safety devices

- **Emergency opening**  
By means of a proper control, positioned on the upright at man height, it allows the automatic rising of the curtain, by the counterbalancing spring.
- **Safety photocell**  
One Pair of transmitter/receiver type photocells will stop the door down travel and make it return to the open position, should any obstacle be detected by the threshold beam.
- **Positive Door Fall Locking**  
Complying with current safety law No.626 related to vertical operating doors, STAR 250 doors are provided with a dual positive door fall locking system which prevents the curtain from falling down in case of power shortage or any other cause. This proprietary safety system is actuated even if the rotary secondary transmission is subject to a breakdown.

(As the motor/gearbox unit is not mounted directly on the winding shaft, transmission failure would circumvent the intervention of the irreversible gearbox).



## Optional safety devices

### Automatic Emergency/Panic Opening (Patented)

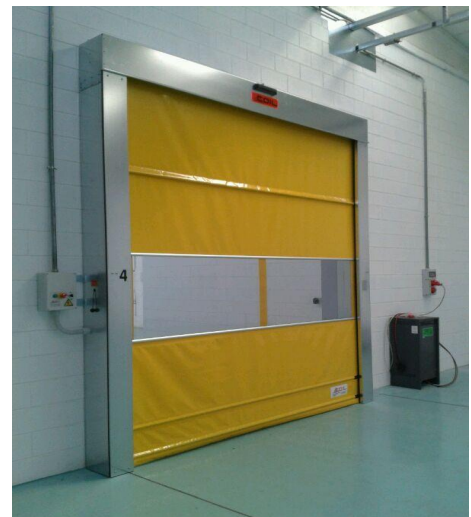
In the event of power failure, the door can either lift automatically or manually by means of a push button at user height. The exclusive design features of this system allows it to be integrated into the user's central security systems (i.e. fire prevention).

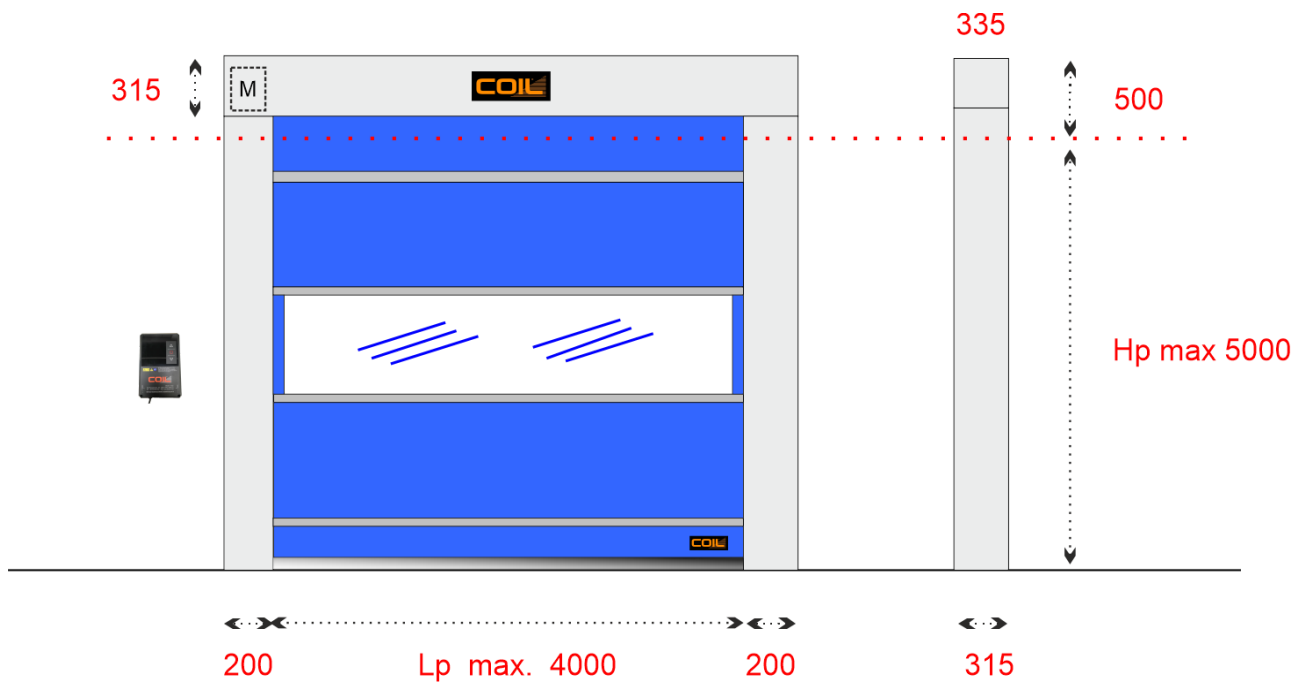
### Bottom Safety Edge

Opto-Electronic sensor contained at the bottom of the door mantle (up to L 4000) or with double chamber and double pneumatic signal amplifier, interrupts the door descent and ensures that the descent is stopped and the door reopens if there are obstacles in the compartment.

### Additional photocell

Can be installed height of a high contour.





## Electrical system

**Electrical hard wiring**  
Fully prewired, with external quick connectors provide fast safe connections between the control panel and the mains.

### PT Control Box/Board

Inside the structure housed in a box with IP 55 protection grade, complying with updated EEC/CEI 44/5 and DIN standards.  
Push-button panel in compliance with IP65 standards installed on the shoulder of the door, equipped with upward push-button, emergency push-button with mechanical lock.  
The digital electronic microprocessor control board allows easy programming of work time and the automatic closing time as well as ensuring a simple interface for the connection of auxiliary devices (opening pre-commands and standard and additional safety devices).  
The panel is equipped with thermal safety devices (general, motor, auxiliary). Three-phase 220/380 VAC 50Hz, internal and auxiliary 24 VDC power supply.

## Optional devices electrical system

### Partial opening

Allows partial automatic opening of the door to a pre-selected height.

### Electrical box type PLUS

In addition to the standard: Manual/Automatic selector switch, up/down buttons for human presence control.

### Interlock logic

To interface a series of doors.

## Warranty

Manufactured with the best electronic materials and components, STAR 250 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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The logo for COIL, featuring the word "COIL" in a bold, orange, sans-serif font. To the right of the text is a stylized graphic consisting of a series of horizontal lines of varying lengths, creating a sense of depth or a 3D effect. A small registered trademark symbol (®) is located above the "I" in "COIL".

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