



Flexidoor[®]
AUTOMATIC DOORS MANUFACTURER

www.flexidoor.pt

HIGH SPEED DOORS

roll-up • folding

HIGH SPEED DOORS

INDEX

- **Flexidoor** 04
- High speed doors
- High speed roll-up doors 06
- High speed folding doors 11
- **High speed door components**
- Composition 14
- Accessories 16
- **Opening and safety systems** 18



Recognised Quality

Flexidoor high speed doors fulfil all the safety requirements of the EN 13241-1:2003 CE.



All the safety components are an integral part of our doors, giving our customers the guarantee that our products are designed to ensure safety and well-being.



www.flexidoor.pt
A design made for you!

Flexidoor

Aware of the demands of the market, Flexidoor launched a range of products that can adapt to the most complex realities. Thus, having as our goal the satisfaction of our customers, we provide them with products that combine quality, robustness, aesthetics and class with which they fit into any type of building. Flexibility, Quality, Robustness and Elegance are the characteristics that best define our doors.

HIGH SPEED DOORS

Technical Assistance

Flexidoor has a specialised and skilled technical team, both in the commercial and manufacturing sectors, which offers you all the necessary support since the planning up to the installation phase. This way, safety will be at your side during the time of work execution.



HIGH SPEED ROLL-UP DOORS

The good results achieved in the level of acoustic and thermal insulation, together with their flexibility, reliability and compact structure, make Flexidoor high speed doors a benchmark for the most advanced technology in the field of industrial doors for intensive use.

Our doors are ideal to high traffic passages and divide different areas. The high speed roll-up doors can be manufactured to a maximum width of 4500 mm and maximum height of 4500 mm. The doors are designed to look attractive and are composed by a lacquered aluminium structure, fixed to the wall with galvanized steel screws.

Why choose Flexidoor high speed roll-up doors?

- Easy installation
- Requires a minimum space to install
- Profiles exclusively in aluminium
- Current inverter
- Structure up to 4500 mm wide and 4500 mm high
- Digital control unit
- Error detection

Components and Advantages

Shaft

The aluminium shaft on which the curtain is rolled slides on high quality spherical roller-bearings, fixed on two galvanized plate supports, in order to reduce wear and tear and increase its durability.

Curtain

Flexidoor doors are composed by a high quality pvc curtain with flame retardancy*, weighing 900 gr/m2. the main assets of the curtain is resistance and security. The Flexidoor customer may, furthermore, request the application of transparent curtain strips on high speed doors.

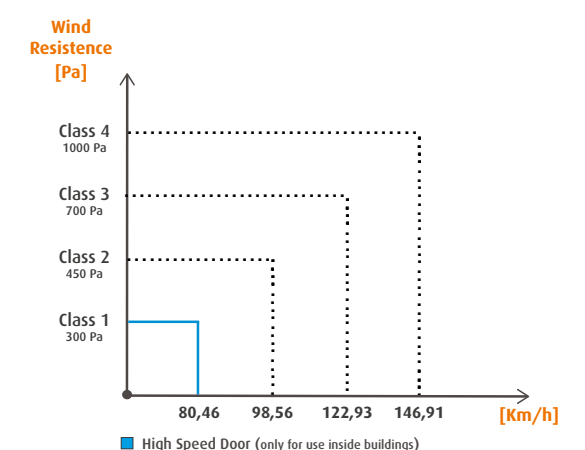
* not available in some colors



Gearmotor

Gearmotor composed by electrical break, 230/400V AY of 140 rpm at 50Hz, designed for intensive use with release accessory (handle) for manual operation in case of power failure.

Wind resistance table



Control Board



Designed from high quality material, the control board is equipped with:

- Compact current vector inverter with integrated automation to minimize the wear of the motor and cut the current spikes.
- One-phase power supply and three-phase output for the motor.
- Power supply for the accessories of 12/24 Vdc with stabilized power source included.
- Central process unit controller that controls all the external signals
- Speed control
- Potentiometer for the regulation of automatic closing

Control Board Options

Emergency system with battery. In case of power failure, the door opens automatically and remains open until the electricity returns.
This option is only available for doors with a height and width under 3500 mm.

Installation

Flexidoor high speed doors are characterized by their easy mounting process. The installer needs only to connect the board to the 230 V electricity network, and then connect the plugs from the board into the guide, and then from the guide to the motor.



Safety

A wireless safety edge system for obstacle detection is fitted into the bottom aluminium profile, on which a medium-frequency obstacle detecting device is installed, causing an immediate reversal of movement. There are also photocells for additional security.

Available Colours

Ral 9010
(White)

Ral 3002
(Red)

Ral 1032
(Yellow)

Ral 5005
(Blue)

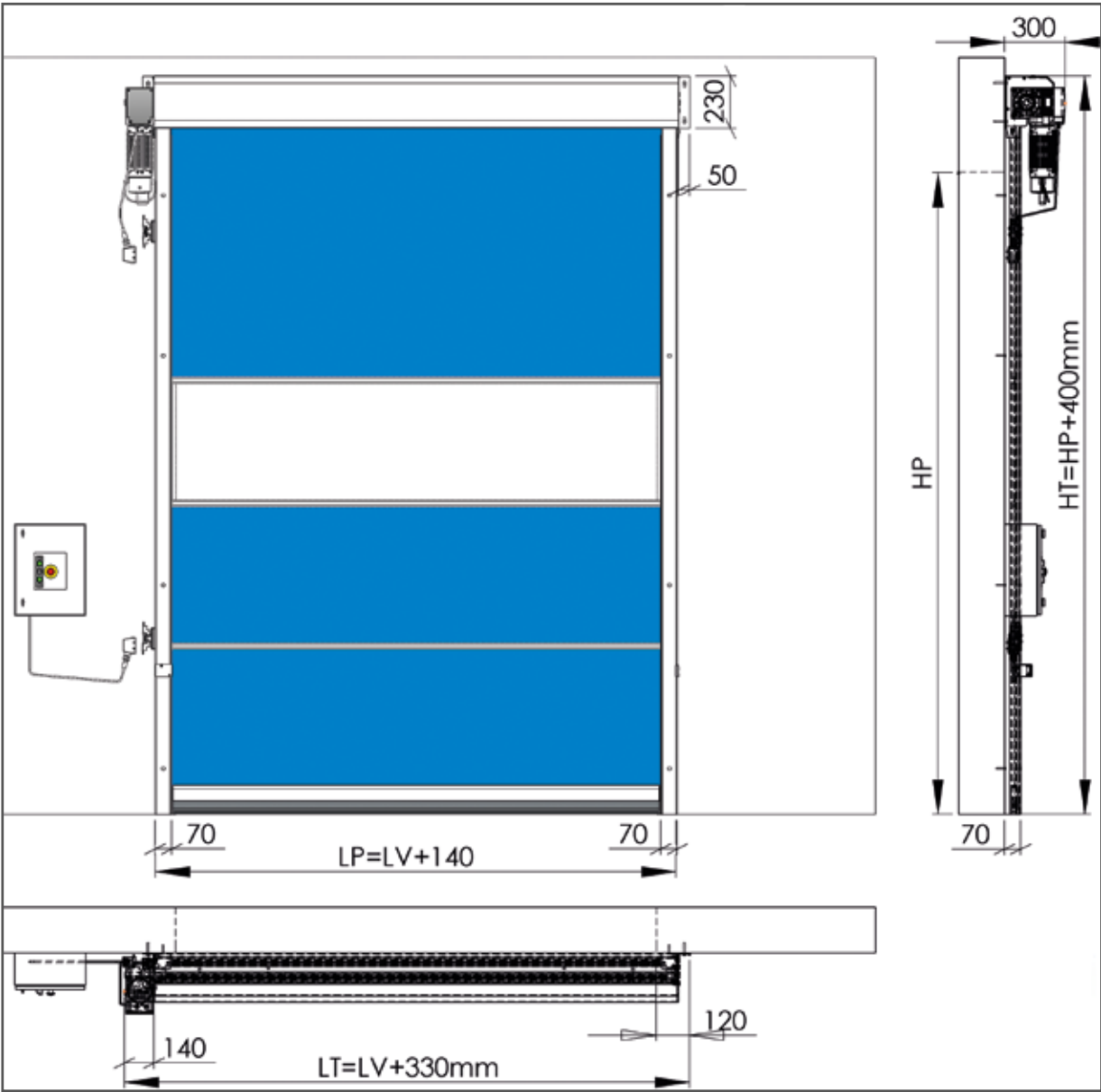
Ral 9006
(Grey)

Ral 6039
(Green)

Ral 2004
(Orange)

Other available
colors

HIGH SPEED ROLL-UP DOORS



TECHNICAL SPECIFICATIONS	
APLICATION	INTERIOR DOOR
Maximum passage measure	4500mm x 4500mm
Minimum passage measure	1000mm x 2000mm
Electricity supply	230V
Amperes	2/3 A
Gearmotor	Like It / MGM
R.p.m.	140
Phases	I
Power	0,75 up to 1,5 Kw
Degree of motor protection	IP55
Opening speed	0,9 m/s up to 1,2 m/s
Working temperature	-5°C a +70°C
Daily operations	± 1000
Automatic closing	0 sec up to 30 sec.

TECHNICAL SPECIFICATIONS	
APLICATION	INTERIOR DOOR
Power supply for accessories	12VAC
Traction type	Direct
Curtain material	P.V.C.
Curtain weight	900 gr/m²
Curtain thickness	1 mm
Transparent material	P.V.C. Mica
Transparent section thickness	2,2 mm
Frequency	50 Hz
Base of machine	Aluminium
Machine cover	Aluminium
Engine cover	Optional
Vertical guides	Aluminium
Safety edge system	Radio
Safety photocells	Mirror

A practical and robust model ideal for small and medium passages!

Flexidoor folding doors are versatile and robust, responding to all the demands of intensive use. They can fit into any daylight space, even those of a larger dimension in areas with strong winds.

This door has the following components:

- Solid shaft supported with spherical rolling bearings proportional in number to its size.
- Aluminium reinforcements that allow an easy replacement of straps if necessary, since the curtain is manufactured in sections.
- Robust vertical guides in galvanised steel, and as option also in any RAL color or glossy stainless steel. Side brushes applied in the vertical guides, ensures a better tightness of the door.
- Pvc curtain with flame retardancy
- Gearmotor
- Required safety systems to comply with the European Standard EN13241-1:2003

Due to the countless different types of use, these doors may be manufactured with several transparent door viewers to allow a better visibility and illumination of space.

Components and Advantages

Curtain

Flexidoor doors are composed by a high quality pvc curtain with flame retardancy*, weighing 900 gr/m². The main assets of the curtain is resistance and security. Doors with a double curtain can be manufactured for areas with over 8000 mm of passage space. There is also a reinforced version for areas overexposed to wind. Furnished with tubular elements in extruded aluminium. Available in a wide range of colors in accordance with the RAL catalogue. *not available in some colors.

Shaft

Solid shaft on which belts that pull the curtain roll-up, supported by high quality spherical roller-bearings, to reduce the wear and increase the durability of the door. The motor and the supports are fitted on its ends.



Gearmotor

Gearmotor composed by electrical break, 230/400V AY and 140 rpm at 50Hz, designed for intensive use with release accessory for manual operation in case of power failure.

Safety

A wireless safety edge system for obstacle detection is fitted into the bottom aluminium profile, on which a medium-frequency obstacle detecting device is installed, causing an immediate reversal of movement. There are also photocells for additional security.

Installation

Flexidoor high speed doors are characterized by their easy assembly process. The installer needs only to connect the board to the 400 V electricity network, and then connect the plugs from the board into the guide, and then from the guide to the motor.



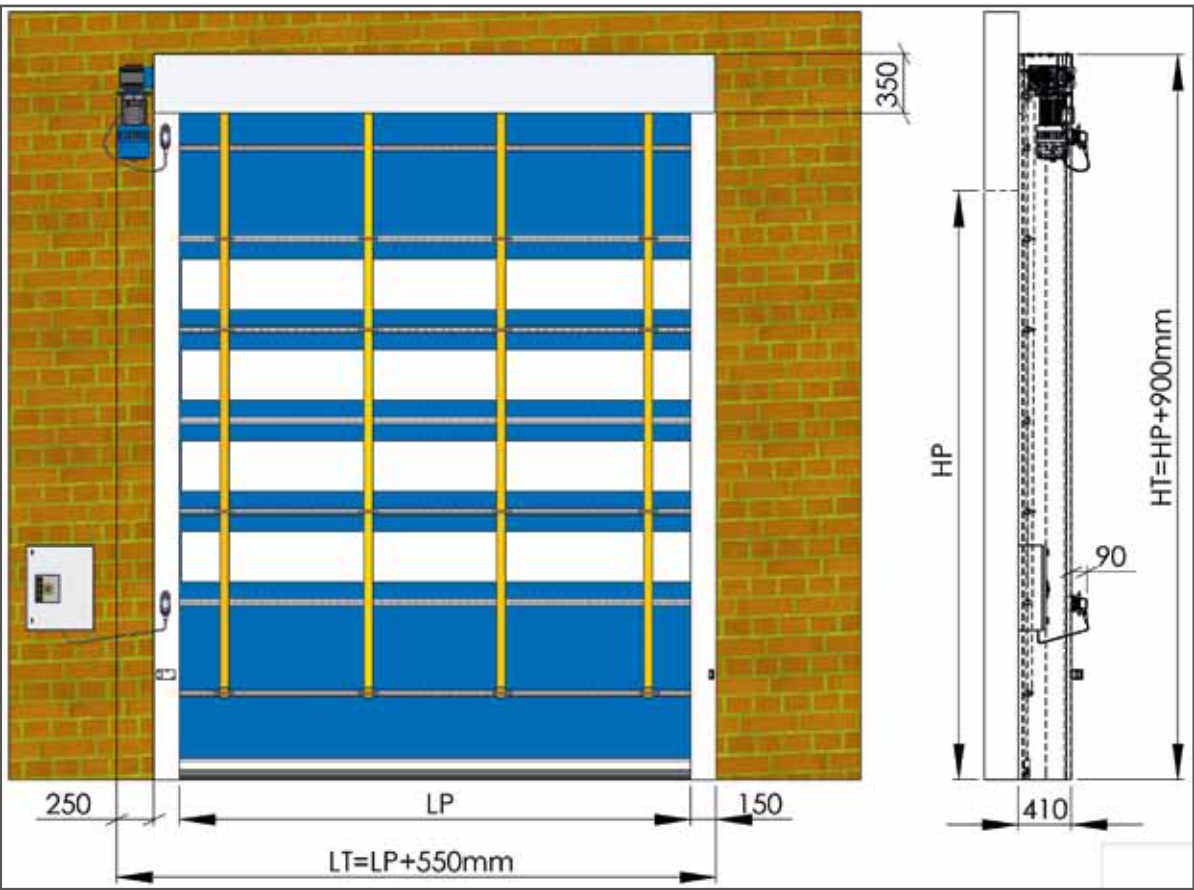
Control Board



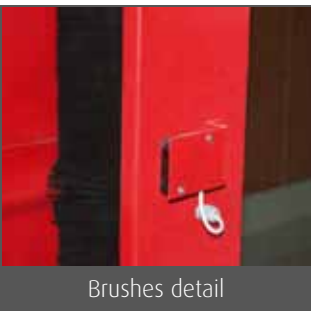
Designed from high quality material, the control board is equipped with:

- Current vector inverter with integrated automaton to minimize the wear of the motor and cut the current spikes.
- 400 V Three-phase power supply.
- Central process unit controller that controls all the external signals.
- Operation voltage and power supply for the accessories of 24Vdc with stabilized power source included.
- Potentiometer for elevation speed control
- Potentiometer for elevation force control
- Potentiometer for regulation of automatic closing

Inside view



Belt restraint detail



Brushes detail

Available colours



Ral 9010
(White)



Ral 3002
(Red)



Ral 1032
(Yellow)



Ral 5005
(Blue)



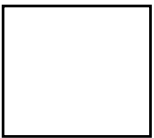
Ral 9006
(Grey)



Ral 6039
(Green)



Ral 2004
(Orange)

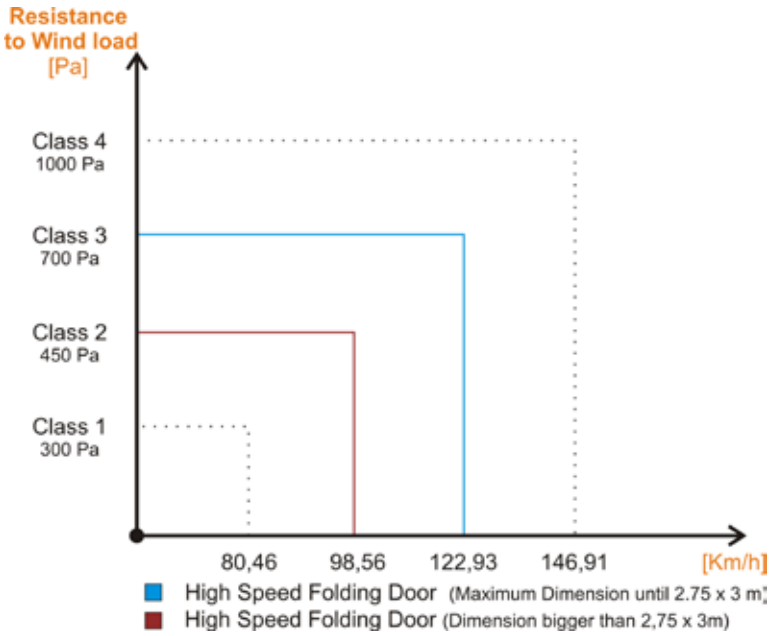


Other available
colors

HIGH SPEED FOLDING DOORS

Safety is never forgotten!!

Flexidoor is constantly concerned with the safety, providing its customers with two safety devices always supplied with the door: The photocells and the safety edge system, complying with all the CE standards requirements.



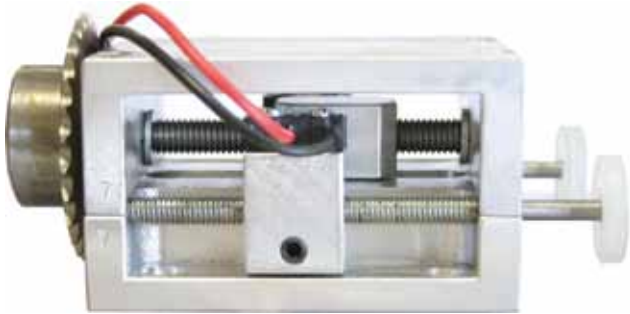
TECHNICAL SPECIFICATIONS	
APPLICATION	EXTERIOR/INTERIOR DOOR
Maximum passage measure	8000mm x 6000mm
Minimum passage measure	1000mm x 2000mm
Electricity supply	400V
Amperes	3
Gearmotor	MGM or Like It
R.p.m.	140
Phases	III
Power	0,75 up to 1,5 Kw
Degree of motor protection	IP55
Opening speed	0,9 m/s up to 1,2 m/s
Working temperature	-15°C up to +70°C
Daily operations	± 1000
Automatic closing	0 sec. up to 30 sec.

TECHNICAL SPECIFICATIONS	
APPLICATION	EXTERIOR/INTERIOR DOOR
Power supply for Accessories	24VAC
Traction type	Direct
Curtain material	P.V.C.
Curtain weight	900 gr/m²
Curtain thickness	1 mm
Transparent material	P.V.C. Mica
Transparent section thickness	2,2 mm
Frequency	50 Hz
Base of machine	Galvanized
Machine cover	Galvanized
Engine cover	Optional
Vertical guides	Galvanized
Safety edge system	Radio
Safety Photocells	Mirror

HIGH SPEED DOORS

Mechanical Limit Switch

Flexidoor high speed doors are equipped with a mechanical limit switch to set up the opening and closing limits, without the need to use the electronic board. Safe, precise and easily adjustable, this component is resistant to dust and humidity due to its highly reliable water-tight elements.



Fast Connection Plugs

With a policy guide to our customer needs, Flexidoor is constantly seeking new components to allow an easy installation of its doors. In this case, the use of fast connection plugs, with a single connection position, enables all the functions of the door.





Photocells

The photocells provided with all our doors , have two different modes of operation. Although they are identical in all their aspects, they can be for safety or opening.

SAFETY MODE The door usually works in safety mode. The photocells stop the closing movement in case that an object or person stands in the way of the infrared beams, and reopen the door.

OPENNING MODE In the opening mode, the photocells work only to open the door, although their functioning relates only to the opening of the door in the event that it is closed. (Opening mode only provided at the request of the customer).



Manual Release

This accessory allows the user to open and close the door manually in case of power failure, or in case of emergency

Wireless safety edge device

Despite the presence of photocells, Flexidoor supplies its high speed doors with a safety device whose function is to detect obstacles. Thus, in the event that an obstacle passes through the photocells, the movement of the door will be stoped and reversed when it comes across any obstacle in the process of closing. This way, the safety level of the users is increased.



COMPOSITION OF A FLEXIDOOR HIGH SPEED DOOR

Options for a Flexidoor High Speed Door

Pressure Button

From the outside, this component allows to open and close the high speed door.



Magnetic Detector

In order to allow easier access, Flexidoor can provide you with a magnetic detector for opening the door with the simple passage of an object with a high metal content. This option comprises a spiral cable that, together with micro switches, enables different types of sensitivity adjustments so that it can function even in areas where there are large quantities of metal. This component is discreet since it is built-in into the floor.



Tierod

Another option for opening that may be part of a Flexidoor high speed door. This component uses rope that hangs from a considerable height so that it can be pulled for opening the door by a forklift operator.





Infrared Radar

Thinking of all the possibilities, Flexidoor provides its doors with infrared radars that allow the doors to open when movements within a maximum radius of 8 m are detected.

Radio Control

Comfort is not set aside even with doors used in industrial environments. For this reason, Flexidoor provides radio frequency control emitters, this way the doors can be opened from an approximate distance of a 100 m by way of a simple push of the button.



Beacon Light

The beacon light is another component that Flexidoor provides as an option to be applied on its doors. Installing this component enables the signalization of the movements of our doors, functioning whenever they are closing or opening. As an alarm, it is undoubtedly a very efficient safety system allowing the pedestrian to easily check whether the door is in operation, avoiding possible accidents.

Opening and Safety Systems

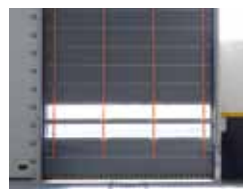




Sectional Doors



Automatic Devices



High Speed Doors



Automatic Glass Doors



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