



Flexidoor[®]
AUTOMATIC DOORS MANUFACTURER

www.flexidoor.pt



SECTIONAL DOORS
residential • industrial

SECTIONAL DOORS

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Recognized Quality

Flexidoor sectional doors fulfil all the safety requirements of the EN 13241-1:2003 standard.



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



Flexidoor
AUTOMATIC DOORS MANUFACTURER

www.flexidoor.pt
A design made for you!

SECTIONAL DOORS

Flexidoor

Flexibility, Quality, Robustness and Elegance are the characteristics that best define our doors.

Aware of market demands, Flexidoor has a range of products that can fit into any type of building. Thus, having as our goal the satisfaction of our customers, we provide products that combine quality, robustness, aesthetics and elegance.

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.

Well-being is Always on Our Mind!

Nowadays aesthetic appearance of our homes have a huge importance, and for this reason we provide a wide range of panel shapes and colors. This way you can always adapt the door to your own style.





The Panel

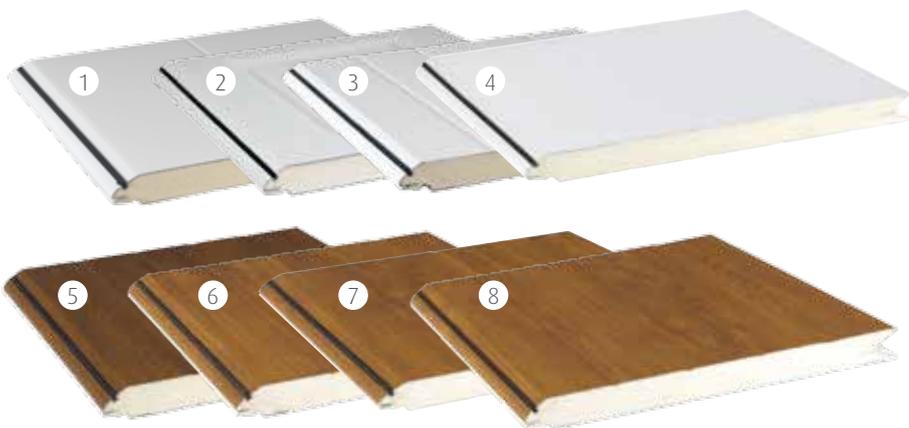
The panel is a key component in the composition of a sectional door, appearing in different shapes: Groove, Wood, Frame, Flat, Micro-Rib. The panel has CE Marking in the new standard EN14509.

All models have similar characteristics of comfort, security, robustness and reliability by virtue of its constitution in double steel sheets with thickness between 0.45mm and 0.7 mm, and inner insulation of high quality polyurethane with a density of $\pm 45\text{Kg/m}^3$. A rubber is applied to provide a perfect sealing between panels, ensuring the maximum insulation to the door.

There are also panels in aluminum plate, with ± 0.6 mm thick. The panel has a finger-safe system and a thickness of 40 mm, with two reinforcement sheets to ensure a solid assembly between all components.

This set of features allows the panel to obtain optimum characteristics of thermal insulation, acoustic insulation, water tightness and load due to wind pressure.

The panels are equipped with a finger-safe system.



1 - White Flat with narrow rib 2 - Frame 3 - Groove 4 - Micro rib
5 - Groove Wood Flat 6 - Groove Wood 7 - Wood Flat 8 - Groove Wood Flat



Technical Characteristics

- Density: $\pm 45 \text{ Kg/m}^3$
- Compressive strength: $\pm 0.15 \text{ N/mm}^2$
- Compressive Modulus of Elasticity: $\pm 2.7 \text{ N/mm}^2$
- Thermal conductivity: $\pm 20.3 \text{ W/mk}$
- External 25μ polyester pre-coating
- Internally primed with 10μ coating
- Top sheet thickness: $\pm 0.45 \text{ mm} - \pm 0.7 \text{ mm}$
- Bottom sheet thickness: $\pm 0.45 \text{ mm}$
- Adhesive strength: $\pm 0.15 \text{ N/mm}^2$
- All panels are lined internally and externally with a protective PVC film



Colour Range



SECTIONAL DOORS



Lacquered in Blue Ral 5010 (Groove)



Lacquered in Red Ral 3000 (Groove)



Lacquered in Grey Ral 9007 (Groove)



Lacquered in Grey Ral 7011 (Groove)



Lacquered in Grey Ral 7016 (Groove)



Lacquered in Brown Ral 8017 (Groove)



Acrylic paint of 2 components, in any RAL color chosen by the customer

Panel with Interior Reinforcement sheets



Safety at your side !!!

Flexidoor has a set of solutions to ensure the safety of their users. The finger-safe system is one of the solutions that prevent any type of hazard in our doors.

The Robustness of a Product !!!

The panel used in the sectional doors have an interior reinforcement sheets to ensure a solid assembly between all components, turning it into a product of remarkable robustness. The interior reinforcement is in all panels for industrial and residential doors.

DOOR COMPONENTS

The components are of crucial importance in the operation of a door.

Each accessory is subjected to rigorous tests before being selected and included in the production process, to ensure the highest quality of the product that will fulfill our customer needs.

Therefore, there are multiple criteria for the selection of these accessories, of which we wish to highlight the following:

1. Silence during use
2. Durability of materials and, subsequently, of the door
3. Balancing and dimension of lintel
4. Safety against any type of hazard (Cutting, pinching, tripping)



Handle

Flexidoor doors allow the customer to choose between two different types of handles: Lever and Embedded. The decision is based on functional factors or simply in the personal style of each customer.

Extra Accessories for a Flexidoor Door

All the sectional doors are equipped with a set of accessories that provide them with all the necessary safety, aesthetic elements and robustness for perfect operation. There are, however, a series of extra accessories that may be added to a final product according to the wishes of the customers. This type of accessories are aesthetically an added value for our doors. Flexidoor is a company that always seeks a solution for you.



RESIDENTIAL



CHARACTERISTICS - ACCESSORIES - OPTIONS



Lintel Type

RLF assembly - Reduced Lintel. Suitable for residential construction with reduced lintel, if the lintel (H1) is between 150* mm and 200mm, and with low lintel, if the lintel is between 200mm and 300mm. For the reduced lintel the height (H) must be smaller than 2600mm.

* Minimum lintel for manual opening. For a automatic door the minimum lintel measure depends on the height of the rail engine.

NL assembly - Standard Sectional door with normal lintel (H1) for residential construction. For a height (H) bellow 2800mm the arrow lintel is 300mm.

IL assembly - Special sectional door. To determine the inclination, measure the distance A (A=2000mm) then measure the distance X, so we can study the most appropriate solution for you.



Why risk if you can have a safe solution?

For this reason, the Flexidoor sectional door is equipped with a cable and spring safety breakage device, either for manual or automatic operation.



Adjustable Cable Break Device

This is another item that contributes to the safety level of our doors. The cable break device with adjustable cable part is a component that immobilizes the door in case of a steel cable rupture.

DOOR COMPONENTS



Spring Break Device

The use of this accessory is another guarantee in the safety of Flexidoor doors. If a spring breaks, this element is automatically activated, immobilizing the door. Its use required to comply with the European Standards.

Applications



Fixed to the Vertical Angle

Fixed on the Lintel



Intermediate Hinge

The central hinge is made in galvanized steel and suits perfectly in the door panels. They have an finger-safe system that prevents finger pinching that increases the safety of our doors.



Side Bracket

The support bracket made in galvanized steel and is adjustable in depth. This component has an finger-safe system.



Springs

Zincs springs on residential doors, thus avoiding their deterioration through corrosion.



Bottom Bracket

Adjustable bracket to allow an easy assembly of the door.



Nylon Roller

The strong nylon rollers allow a better and more silent sliding in a door. (On our photo, applied in the top roller bracket with the roller protection).

Windows



Plain Effect



Cross Effect



Rhombus Effect

Sun effect with 3 acrylic windows



Sun effect with 5 acrylic windows



Dimensions

Width: 530 mm

Height: 365 mm

common dimensions for all residential door windows.

The aesthetic appearance, together with safety, is one of the most valued characteristics on Flexidoor. For that reason, the company has several types of windows that can be applied with different effects and materials, according to the taste of each customer. The introduction of this accessory makes the door aesthetically more pleasing, decisively contributing to the adornment of the location where it is installed.

Windows with aluminum frame can be manufactured with any desired dimension, to meet our customer needs once again.



Plain Window Double Laminated Glass Plain Aluminium Frame



Cross Window Double Laminated Glass Plain Aluminium Frame



Rhombus Window Double Laminated Glass Plain Aluminium Frame

Available types: Glass and acrylic



Granulated Glass



Dark Glass



Plain Glass

Ventilation Grids



Dimensions

Width: 530 mm

Height: 365 mm

Lacquered Aluminium Grid for better ventilation.

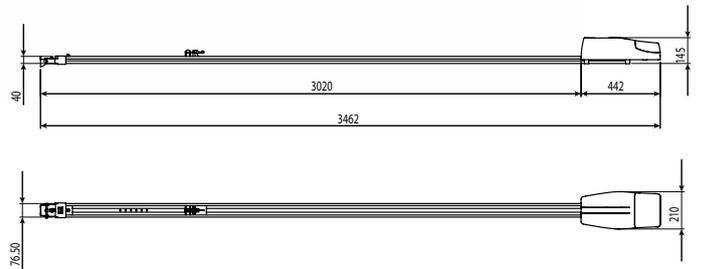
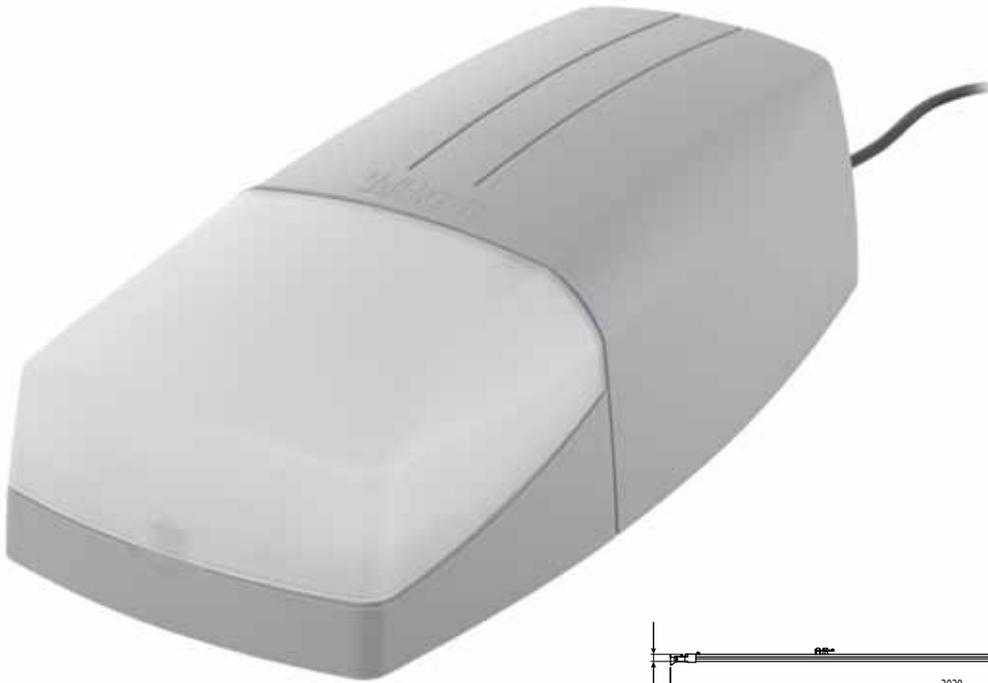


Dimensions

Width: 338 mm

Height: 132 mm

Ventilation Grid for evacuation of toxic gases.



Its Advantages:

- Maximum force of 800N/1200N to garage doors up to 12m²/16m².
- Limit switch by optical encoder
- Memory for 999 codes
- Automatic closing
- Easy programming
- Ultra quiet opening and closing movement
- Slowdown during final opening and closing movement
- Multiple connections: Photocells, Push button, Key switch, Flashing light device
- Safety Reverse system: Detection of obstacles at opening and closing movement, reversing total or partially its movement when detects an obstacle, ensuring maximum safety for users.
- Galvanized rail for doors up to 3.5m height with chain transmission and a door lock system that allows to lock the trolley in the rail in closed position even when the engine is unlocked

A touch of class

Motor for Sectional and Up-and-Over Doors

Motor for Sectional and Up-and-Over Doors

LIKE IT is the latest innovation in home automation, with a range of solutions where high technology reigns. With different options in terms of power, the PROL delivers the performance of an motor specially developed for the residential market, with easy programming functions, quality of conception and the elegance of a top designer.





PROL

Power supply	V
Maximum door surface	m ²
Motor supply	Vd.c
Power	W
Pulling force	N
Working temperature	°C min/máx
Protection level	IP
Speed	m/s
Duty cycle	%
Stand by	W
Courtesy light	s
Light power	W
Motor dimensions	LxAxC
Weight	Kg
Noise level	dB

PRO80

PRO120

	PRO80	PRO120
Power supply	230 V 50Hz	230 V 50Hz
Maximum door surface	12 m ²	16 m ²
Motor supply	24 Vd.c	24 Vd.c
Power	140	240
Pulling force	800	1200
Working temperature	-20 ~55	-20 ~55
Protection level	20	20
Speed	0.12	0.12
Duty cycle	80	80
Stand by	10	10
Courtesy light	30	30
Light power	5~10	5~10
Motor dimensions	210x130x440	210x130x440
Weight	4	4
Noise level	57.23	57.23



INDUSTRIAL



CHARACTERISTICS - ACCESSORIES - OPTIONS



Advantages

Sectional industrial doors are the ideal solution to save interior space, since the panels are placed vertically next to the wall or parallel to the roof, avoiding possible accidents.



Flexidoor doors can be adapted to any kind of building due to the multiple assembly types. These along with durability and design, are important factors that can decide the choice of our products.

Note: the doors greater than 5250mm in width have reinforcements and long rollers.



DOOR COMPONENTS



Lintel types

NL assembly - Standard sectional door with normal lintel (H1) for industrial construction. For a span height (H) between 2800mm and 4500mm the lintel (H1) is 420mm, for (H) above 4500mm the lintel is 650mm.

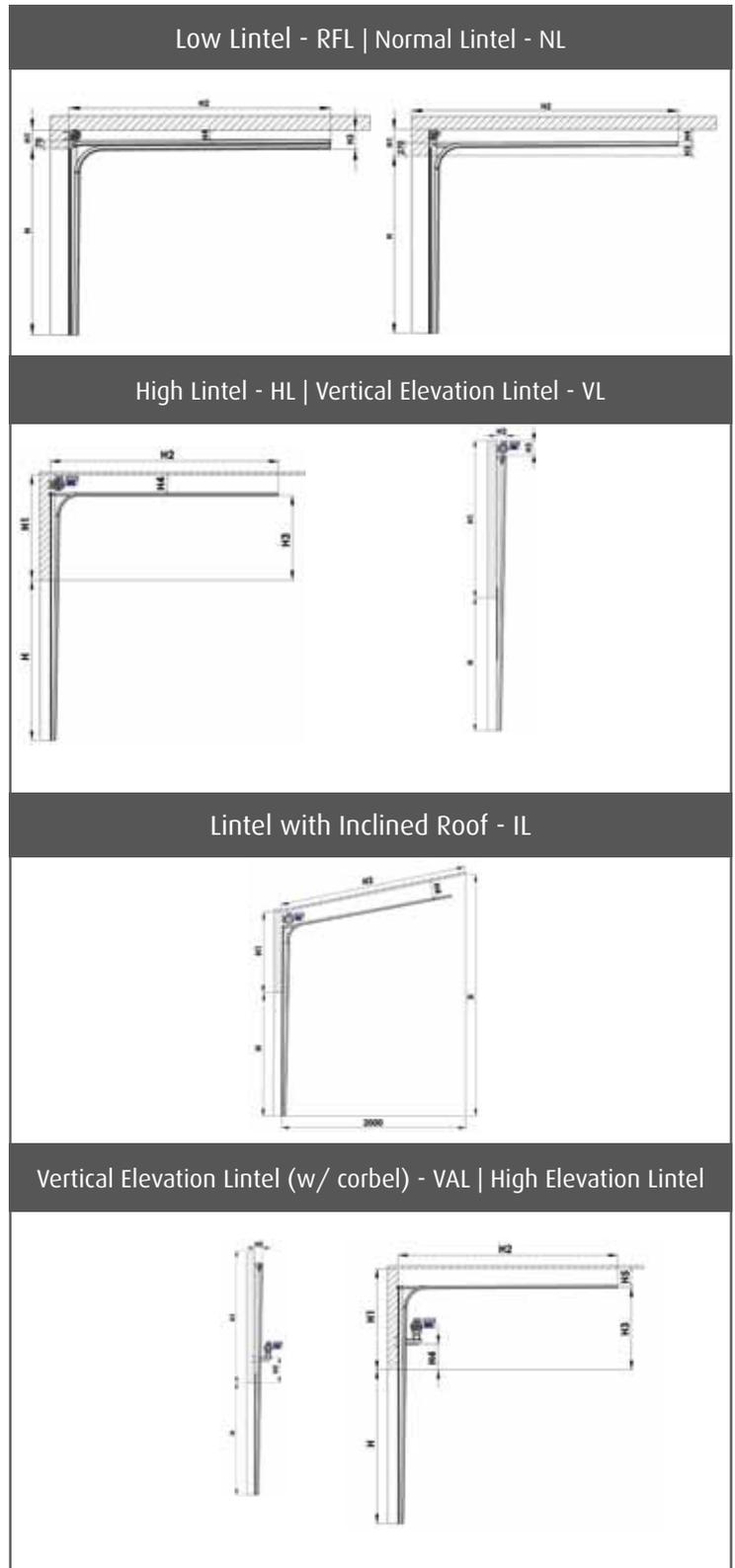
RLF assembly - Low lintel. Suitable for industrial construction with lintels (H1) higher than 320mm and span height between 2800mm and 4000mm. When the door is manual or with cable breakage devices, it stands inside the span, 160mm after opening.

HL assembly - Sectional door for industrial construction with high lintel. The measure (L) is the maximum ceiling height minus 400 mm. It is used with lintels (H1) that are between 800 mm and 4000 mm.

VL assembly - Sectional door with vertical elevation. Used for high lintels. The lintel (H1) is above or equal to the span height, plus 450mm.

IL assembly - Special sectional door. To determine the inclination, measure the distance A (A=2000mm) then measure the distance X, so we can study the most appropriate solution for you.

AL and VAL assembly - Sectional door for industrial construction with high and vertical lintel. Suitable for doors of any height (H) up to 7000mm with lintels (H1) of at least 1200mm. The section pipe is squared between 600 a 900mm from beginning of the lintel (MT).



Flexidoor and safety standards!

Spring Break Device

The use of this accessory is another guarantee in the safety of Flexidoor doors. If a spring breaks, this element is automatically activated, immobilizing the door. Its use is required to comply with the European Standards.



Adjustable Cable Break Device

This is another item that contributes to the safety level of our doors. This cable break device with an adjustable cable part is a component that immobilizes the door in case of a steel cable rupture.



Industrial Intermediate Hinge

The central hinge made in galvanized steel joins perfectly all the door panels.



Industrial Side Bracket

Support bracket in galvanized steel is adjustable in height and depth.



Nylon Roller

The strong nylon rollers allow a better and more silent sliding in a door.



Countless options ensuring that Flexidoor always has what you are looking for!!!

Cable Tensor set

This set keeps constant tension in the lifting cable in manual or electric powered doors, preventing the respective steel cables from unrolling.



Adjustable coupler

By turning one of its sides, the shaft junction allows an easier installation and similar movements on both cables, reducing alignment deviations.



Chain Hoist

The hoist is suitable for manual doors and comes with 8 meter hand chain, and is installed directly in the shaft to enable the manual lifting of the door.



Ventilation Grid



Dimensions

Width: 530 mm

Height: 365 mm

Lacquered Aluminium Grid for better ventilation.

Industrial Windows

Flexidoor hasn't overlooked the aesthetic appearance of industrial doors as well. With a framework of synthetic material, there are three types of windows available in different dimensions.



Dimensions

Width: 630 mm

Width: 663 mm

Width: 680 mm

Height: 195 mm

Height: 343 mm

Height: 373 mm

BIG ALU Solutions to any application!!!

A door characterized by its elegance, manufactured in aluminium and acrylic profiles, fitting perfectly in any type of space, whether modernly designed exhibition space or common pavilions, irrespective of their design.

BIG ALU panels fulfil the strictest safety and quality standards. They are manufactured in extruded aluminium profiles, making them very robust and resistant to the most diverse atmospheric conditions. Furthermore, they provide water-tightness and perfect thermal insulation due to a high-quality rubber added to the respective panels fittings. On the other hand, the aluminium used can be lacquered in any of the colors available in the RAL catalogue, giving the door a great and unique aesthetic appearance. BIG ALU also comprises a double acrylic with a thickness of 3 or more mm, which enables sunlight to enter, clearly contributing to a better illumination of the space where the door is installed.



The acrylic or plated panels can be perfectly combined with sandwich panels, providing them with an unsurpassable robustness, elegance, durability, reliability and thermal insulation.



ELLARD

Voltage
 Type of current
 Power
 Motive Force
 Consumption
 Recommended Fuse Protection

ELLARD70

230 V
 1 Phase + N
 370 W
 70 NM
 1,5 A
 10A bipolar

ELLARD120Q

440 V
 3 Phases + N
 550 W
 120 NM
 3,45 A
 10A bipolar

ELLARD



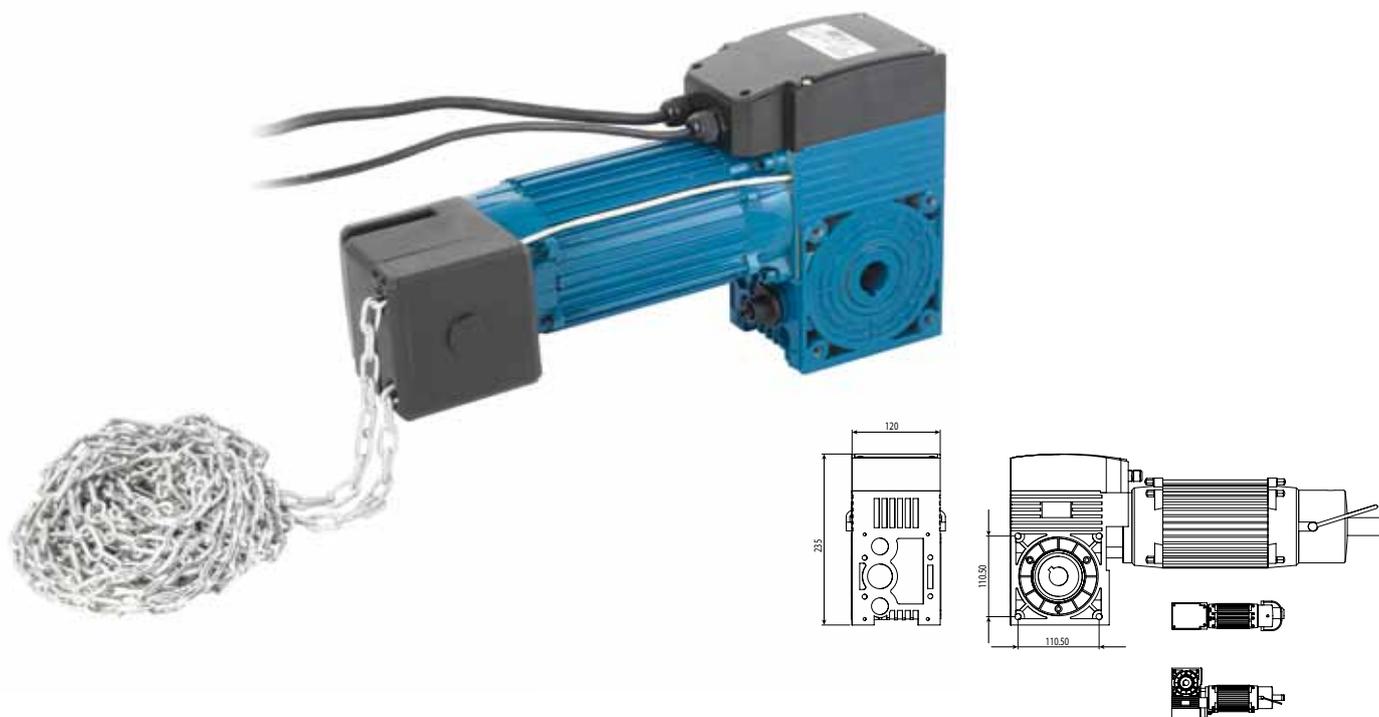
Robustness and Safety.

ELLARD industrial motors are robust models designed on the basis of Durability, Robustness and Flexibility. Easy to install, their force allows several types of use, thus guaranteeing higher flexibility. By fulfilling all the safety requirements, like the Hold-to-run mode in the closing of the door, we have combined in just one motor a set of elements that create a unique and simple solution for the motorization of industrial sectional doors. Independently of their weight and size, the two different available versions can be adapted to any situation.

Flexibility.

Currently, two different versions are available for sale by Flexidoor. ELLARD 70 (one-phase), ELLARD 120Q (three-phase).

These three different versions can be adapted to all types of industrial doors.



BRAVO

		LK 75	LK 100	LK 150
Shaft diameter	mm	25.4	25.4	25.4
Torque	Nm	75	100	150
Rpm	r/min	23	23	23
Motor power	Kw	0.55	0.75	0.75
Working Voltage	V	1x230	400	400
Power supply	Hz	50	50	50
Frequency	A	3.5	4.6	4.6
Duty cycle	%	60	80	80
Working temperature	°C	-20 a 50	-20 a 50	-20 a 50
Noise Level	dB	<70	<70	<70
Protection level	IP	54	54	54
Weight	Kg	22	22	22
Thermal cut-out	°C	120	120	120
Safety catch max.	Nm	200	400	400
Door max surface	m ²	25	35	>35

BRAVO

BRAVO is the proof that safety can be reached

The Bravo model is specifically targeted to the market of industrial sectional doors. It was developed based on stringent technical and market studies, incorporating the latest technologies at our disposal, as well as systems capable of meeting and satisfying all kinds of demands and needs in the industry sector.

The simple and intuitive hoist system, fitted with 18m of chain, can rotate 360°, allowing to diversify the door's assembly, and equipped with a security sensor. It's also fitted with a release system that allows to keep the motor in unlocked position.

Bravo model feature a mechanical limit switch with an easy adjustment.

device have as its great advantage an precise and easy adjustment of the limit switch without much effort and error.

The structure is made in high density aluminium with dissipation plates, that guarantees not only a low level of warming, but also a high cooling rate. Such characteristics gives an coefficient of work cycles up to 80%.

The control board allows to set-up all the functions easily, and gives three options for door activation: semi-automatic (by default), automatic and hold-to-run control.

There is also the possibility of making multiple connections: photocells, sensitive protective equipment, external receiver, flashing light device, security pass-door kit (prevent the movement of the motor when the pass door is open).

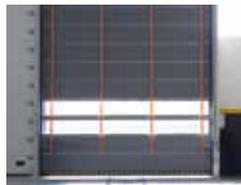




Sectional Doors



Automatic Devices



High Speed Doors



Automatic Glass Doors



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