



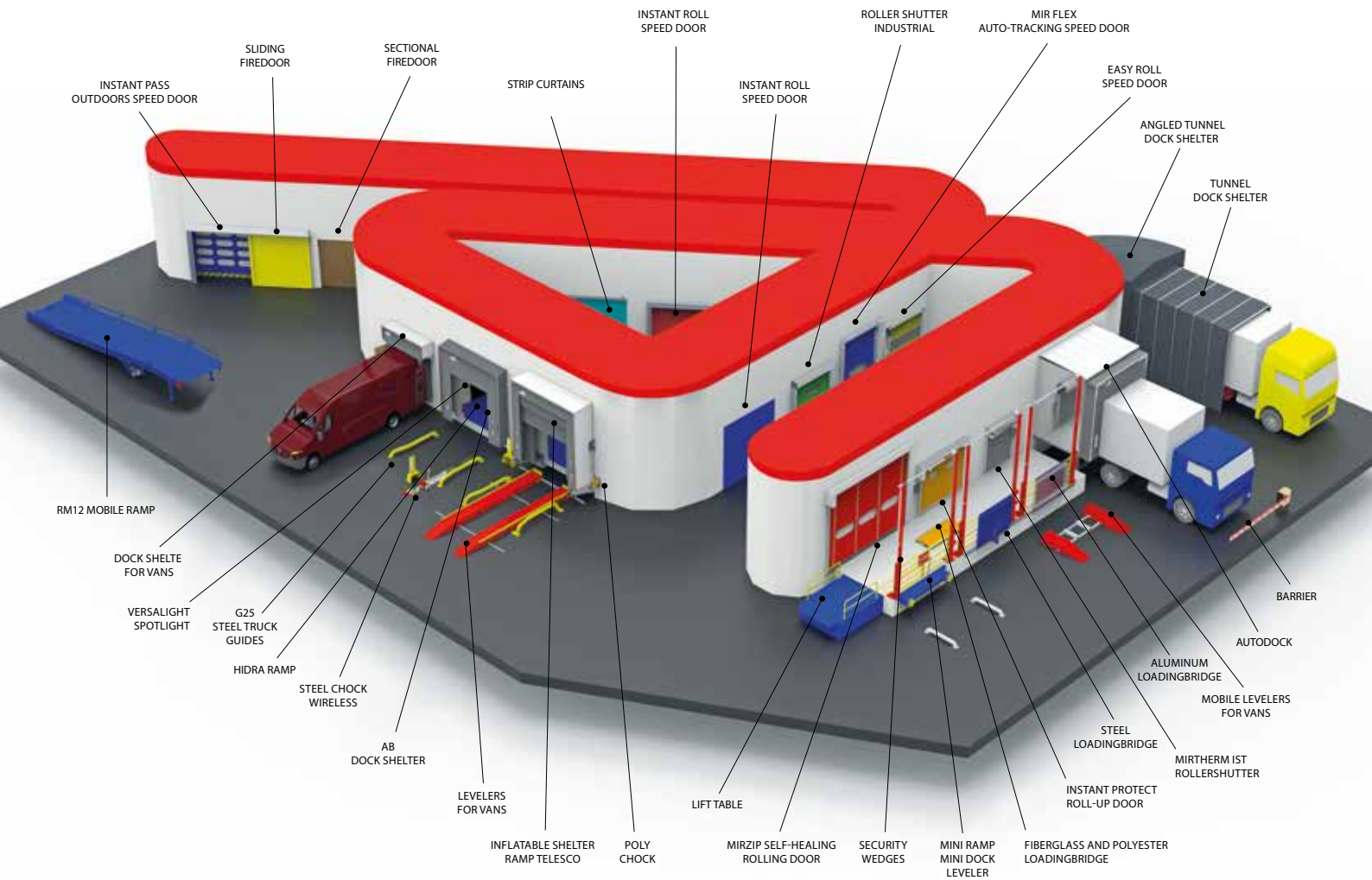
High Speed Doors



Quality since 1967

Reliable Doors & Docks

WE HAVE THE SOLUTION FOR YOUR COMPANY



EXPORTING OVER 50 COUNTRIES SINCE 1967

www.angelmir.com

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The passion for the work well done, is the key of the Angel Mir growth.

For 50 years, we have manufactured industrial doors and solutions for logistics. We are present in more than 50 countries, developing doors for specific applications that are a reference in the international market.

Our exclusive and original patented systems are originated in our commitment to meet the needs of our customers to the smallest detail. Our equipment is designed to solve functional, safety, technical and aesthetic circumstances.

At Angel Mir, our range of equipment is unique because our goal is customer satisfaction; therefore, we advise and design each product according to the needs of each application and we take care of its installation. We also offer an after-sales service for maintenance and repair throughout the product's lifetime.

Ángel Mir
President

La Bisbal
BARCELONA



Angel Mir factories with 42.000 m²



Quality since 1967
Reliable Doors & Docks

Energy efficiency

Some products of **Angel Mir**® have been designed to provide significant energy efficiency and reducing consumption of resources.

With our experience, we support and help our customers to carry out the projects with maximum energy savings through the most appropriate choice of our products. Also, depending on the sector, we recommend the most durable and suitable equipment for each application.

Raw Materials

For almost 50 years, **Angel Mir**® has always counted on local and European suppliers that provide the best raw materials, in order to achieve the best performance of its loading bay equipment and durability.

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What is a high speed door?



A high speed door is a flexible and light-weight door, designed for intensive industrial use, which, thanks to the speed of operation, minimises air currents and ambient temperature losses and helps to make traffic flows more efficient.

The improvements to working conditions and savings in energy expenditure help to make these doors an investment which soon pays for itself.

An industrial maintenance door is opened on average between 200 and 400 times a day. A rigid automatic door, whether sectional, overhead or other, measuring approximately 4,000 x 4,000 mm, has a maximum waiting time for opening of approximately 10 seconds and for closing of 60 seconds. Therefore with a minimum of 200 operations a day, the door will be open for more than three hours per day.

When the same calculations are applied to a high speed door, with an operating speed of 1 m/s and a pause of 7 seconds (door opens in approximately 15 seconds), the difference in the speed of the operation is 45 seconds: More than 2.5 hours per day extra with the door closed!

This is equivalent to 2.5 hours of energy savings per day and a substantial improvement in productivity as waiting times for the door to open are reduced fivefold.

High speed doors can be divided into two main groups: those with an industrial fabric folding

system (Instant-Pass) and those made of roll-up canvas (Instant-Roll, Mirflex, Hermetic-Roll, etc.).

Ángel Mir, has manufactured high speed doors for 30 years, is a leader in the international market and complies with the most demanding safety requirements.

Applications have been developed for fold-up as well as roll-up models, in stainless steel and in standard models. Designed for all sectors; especially for the chemical, pharmaceutical and agro-food industries. Special designs include:

- Marine and corrosive environment resistant doors.
- ATEX certified doors for explosive environments. Powder or paint.
- Doors for robotic welding cells.
- Doors adapted to intelligent conveyor belt storage.

- Doors for clean rooms.
- Doors for refrigeration chambers up to -25°C.

Ángel Mir offers a number of closure systems made in sandwich panels in order to adapt the high speed door to your requirements:

- High speed sectional door with exterior (or interior) frame and pedestrian door.
- High speed up and over door with exterior (or interior) frame and pedestrian door.
- Sectional exterior door and high speed interior door.
- High speed door and side closure with pedestrian door.



Doors for exterior use

Doors resistant to strong windy conditions thanks to their reinforced design. They are generally high-speed doors with a stackable lifting system, but there may be some exceptions.



Instant Pass®

- Maximum size: 9,000mm x 7,000mm
- Wind resistance: up to class 4 (140km/h)
- Opening speed: 1m/s



Instant Pass® PREMIUM

- Maximum size: 5,000mm x 5,000mm
- Wind resistance: up to class 2 (95km/h)
- Opening speed: 1,8m/s



Instant Pass® BASIC

- Maximum size: 5,600mm x 5,200mm
- Wind resistance: up to class 2 (95km/h)
- Opening speed: 1m/s



Instant Pass® ECO

- Maximum size: 5,560mm x 4,900mm
- Wind resistance: up to class 2 (95km/h)
- Opening speed: 1m/s



Grand Pass®

- Maximum size: tailored

Doors for interior use

Lighter design doors for access where there are low or moderate air pressures. They are usually the range of roll-up doors and side opening, as well as some special doors for very particular uses.



Instant Roll®

- Maximum size: 5,000mm x 5,000mm
- Wind resistance: up to class 1 (80km/h)
- Opening speed: 1m/s



Instant Roll® BASIC

- Maximum size: 3,300mm x 3,500mm
- Opening speed: 1m/s



Instant Roll® ECO

- Maximum size: 4,500mm x 4,500mm
- Opening speed: 1m/s



Easy Roll® INOX

- Maximum size: 3,300mm x 3,500mm
- Opening speed: 1m/s



Easy Roll® ALU

- Maximum size: 3,000mm x 3,000mm
- Opening speed: 0,62m/s

Self-tracking doors for interior use



Mirflex®

- Maximum size: 3,300mm x 3,500mm
- Opening speed: 1m/s
- Material: lacquered sheet and painted in RAL color



Mirflex® ECO

- Maximum size: 3,300mm x 3,500mm
- Opening speed: 1m/s
- Material: white lacquered extruded aluminum



Mirflex® ECO INOX PLUS

- Maximum size: 3,300mm x 3,500mm
- Opening speed: 1m/s
- Material: 304 stainless steel

Self-tracking doors for exterior use



MirZip®

- Maximum size: 5,000mm x 5,000mm
- Wind resistance: up to class 2 (95km/h)
- Opening speed: 1m/s



MirZip® MARKET

- Maximum size: 4,000mm x 4,500mm
- Wind resistance: up to class 2 (95km/h)
- Opening speed: 1m/s

Specific high-speed doors

Doors designed for a specific sector taking into account your technical needs. They can be opening rollable or stackable.

Freezing chambers



Instant Pass® ISO

- Maximum size: 4,000mm x 4,000mm
- Canvas: double isolated wall
- Structure: stainless steel



Hermetic Roll® white rooms

- Maximum size: 2,900mm x 3,500mm
- Canvas: PVC de high flexibility and transverse stiffness of 2350 gr
- Structure: stainless steel

White rooms



Hermetic Ball® BASIC

- Maximum size: 2,900mm x 3,000mm
- Canvas: PVC de high flexibility and transverse stiffness of 950 gr
- Structure: aluminium



Hermetic Ball® PREMIUM

Robots and machinery



Instant Protect®

- Maximum size: 3,000 x 3,000 mm
- Canvas: PVC de high flexibility and transverse stiffness of 2 mm
- Structure: galvanised steel

Mosquito net



Easy Roll® INSECT

- Maximum size: 3,500mm x 3,000mm
- Canvas: microperforated canvas used as a barrier against insects
- Structure: galvanised steel or stainless steel

Model INSTANT PASS®



The efficient folding system fast door...

Specially designed for exposed entrances or entrances subject to significant changes in air current or wind without coming off the guides, without being subject to wear and tear, tears or deformations and remaining unaltered for many years.

Canvas specifications

The canvas is fitted with a series of side reinforcements, depending on the requirements of the works, in galvanised steel of different diameters or in "composite" material made of fibreglass or polyester manufactured by pultrusion. This material has extraordinary resistance to breaking (even with violent impacts from moving vehicles) and great flexibility, which is why it can be bent forcibly without causing permanent deformations. Rubber caps are mounted on the ends to prevent wear from friction and to reduce noise. The lower skirting is a fabric bag that enables perfect adjustment even on uneven floors. The bag is painted in yellow and black stripes, which indicates a hazardous transit area for material transport industrial vehicles.

*For range of colours and types of canvas see page 38.

Structure

Mainly manufactured from galvanised steel of different thicknesses depending on the application.

Reinforced sheet metal has been fitted to the insides of the guides and the platform to withstand the significant impacts they are subject to, without causing deformations. The standard format is delivered painted with polyurethane paint made of two highly resistant and durable components.

Standard RAL colour or, on order request, a colour selected by the customer.

Motor and control panel

Self-locking reducer motor for intensive use with integrated position mechanical switches. Electro-brake for exact positioning and locking the canvas. Manual release of the electro-brake with a handle. Manual opening system with a crank, actionable on foot from the floor. Control panel controlled by a programmable automaton, configured with a specific algorithm for this type of auctioning.

Some examples of use may be:

- Industrial environments
- Car dealers
- Washing tunnels, etc.

Special situations that do not enable standard configurations to be adapted may be studied by the Angel Mir projects department.

Options

- AISI 304L and 316L stainless steel structure.
- ATEX certified doors for explosive environments. Powder or paint.

- Sealing joints or brushes.
- Detachable vision panels.

Access security

Wireless contact band on the main edge and infra-red barrier at 500 mm from the floor.

Optional: Infra-red curtain up to 2.5 m height. This system has a series of photocells fitted one on top of another that create the infra-red barrier on the entire height of the door and up to 2 m high, which detects any object, including small objects, preventing lowering the door or raising it again if it has already begun to lower. Avoids physical contact with the door.

Performance of the air

Wind resistance as 12424: until class 4.

Dimensions

Maximum: 9,000 x 7,000 mm.

Please ask if larger sizes are required.

HIGH SPEED DOORS

INSTANT
PASS

GRAND
PASS

INSTANT
ROLL

HERMETIC
ROLL/BALL

INSTANT
PROTECT

EASY ROLL

MIRFLEX

MIRZIP

GENERAL
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IMPLE-
MENTED
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Instant Pass® in a cereal company.



Instant Pass® in a biological treatment center.

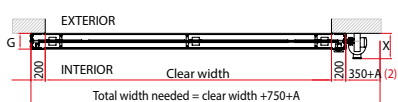


Instant Pass® at the loading and unloading area of Etihad Towers Abu Dhabi.

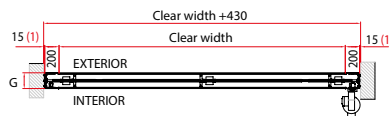
Lintel occupation. Approximate measurements (mm.)

SPAN HEIGHT mm.	2,500	3,000	3,500	4,000	4,500	5,000	5,500	6,000	6,500
N° OF PANELS	5	7	7	9	9	9	11	11	11
B (LINTEL)	1,083	973	1,057	985	1,048	1,110	1,061	1,111	1,161

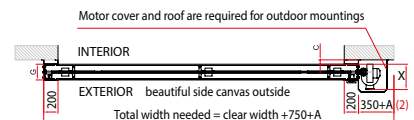
Installation measurements Instant Pass® (in mm.)



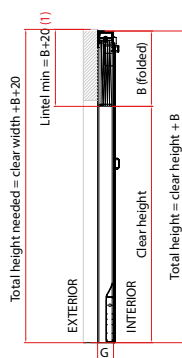
Side engine (internal overlapped)



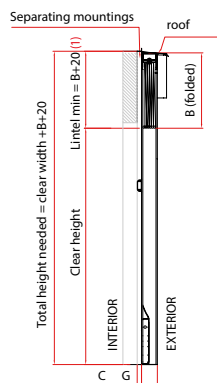
Front engine (between walls)



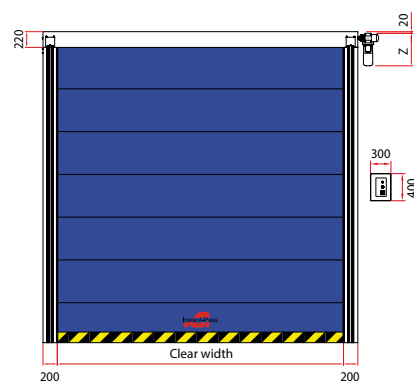
Side engine (external overlapped)



Side engine
(internal overlapped)



Side engine
(external overlapped)



- (1) Exemption
(2) Space required for adjusting the end of the runway.
A Measurement A varies between 70 and 130 depending on the motor.

- X Measurement X varies between 245 and 355 depending on the motor.
Z Measurement Z varies between 400 and 670 depending on the motor.
C For span width <4,000 C=60; for span width >4,000 C=90.

- G Measurements vary between 200 mm and 500 mm.
Check the table for B measurements.

Model INSTANT PASS® PREMIUM



Instant Pass® PREMIUM is the fastest stackable door on the market, up to 1.8 m/s. There are semi-rigid doors, very complete technically speaking and having a design very resistant and adaptable to virtually all kinds of voids. They are particularly suitable for areas with intense people flow having accesses of medium / large side, facing the exterior and / or with major air pressures – depressions.

Features of the canvas

The canvas is equipped with a series of cross reinforcements that, depending on the work necessities, are manufactured in galvanized steel of different diameters and thicknesses or in “composite” material of fiberglass polyester made by pultrusion. This material count on an extraordinary resistance to breakage (even through violent impacts made by vehicles in movement) and great flexibility, so it can bend strongly without permanent deformation.

The ends of the canvas have rubber caps that prevent the wear by friction, and reduce the noise. The lower socle is a band, thanks to it a perfect adjustment even in irregular floors is achieved. The mentioned band is screen printed with the safety symbols – black and yellow diagonal stripes – indicating the danger in a traffic area of industrial vehicles transporting materials.

Structure

The structure is self-supporting and made with galvanized steel. Inside the guides and the platform, and in order to support, without getting distorted, the significant stress to which they are submitted, reinforcements of folded metal sheet have been placed. It also incorporates anti-noise sealing joints into the lateral guides.

The finish of the structure is made with polyurethane painting of two components of great resistance and durability. With the RAL colour chosen or manufactured in Inox Steel AISI 304 or 316.

Engine and operation panel

Irreversible geared engine for intensive use with integrated sidelight mechanical switches. Electrobrake for a precise positioning and locking of the canvas. Manual release of the electrobrake through a handle. Manual opening system through a handle, which can be triggered standing on the ground. The engine is protected with a cover.

Elastic connection between the engine and the axle to absorb the vibrations and increase the reliability of the geared motor. The operation panel is controlled by a programmable controller, which is configured with a specific algorithm for this kind of drive. It incorporates a speed control that provides

a quick rising of the canvas and a more gentle speed when lowering.

Options

- The canvas may incorporate viewing windows made of PVC glass quality.
- The vision panels may be detachable.
- Special canvas Flextex 1000-FR for stackable doors.

Access security

Infrared curtain up to 2.5 m high. This system consists of a series of photocells arranged one above the other creating an infrared curtain across the whole width of the door and to 2.5 m. height. That curtain detects any object, including the small ones, preventing the door lowering or lifting again if it has started to fall. Therefore avoiding physical contact with the door.

Performance of the air

Wind resistance as per 12424: class 2.
Option: up to class 3

Dimensions

Maximum sizes: 5,000 x 5,000 mm.
To consult for larger sizes.

HIGH SPEED DOORS

INSTANT
PASS

GRAND
PASS

INSTANT
ROLL

HERMETIC
ROLL/BALL

INSTANT
PROTECT

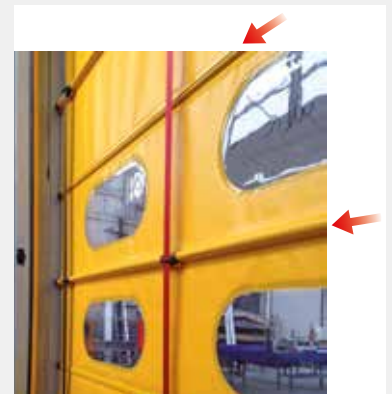
EASY ROLL

MIRFLEX

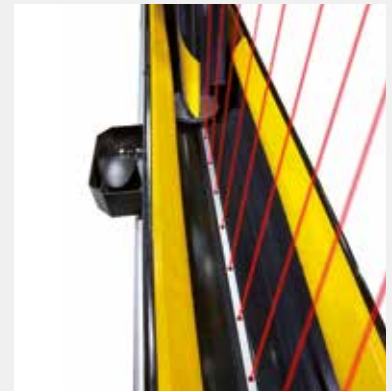
MIRZIP

GENERAL
SPECIFICATIONS
& APPLICATIONS

IMPLE-
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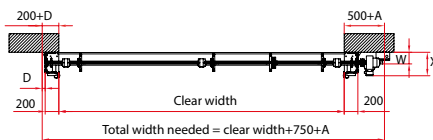


A detachable rod system allowing the replacement of the canvas by sections.

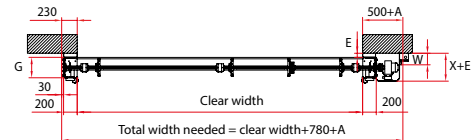


Sealing joints or brushes and infra-red barrier.

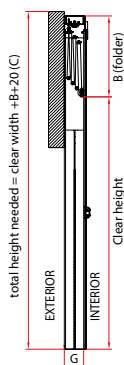
Installation measurements Instant Pass® PREMIUM (in mm.)



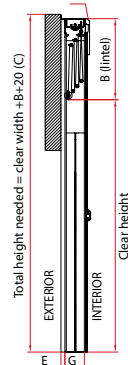
Side engine
(internal overlapped)



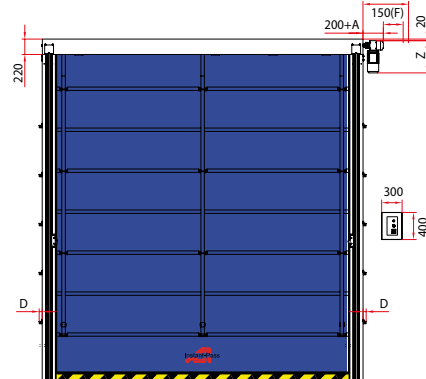
Side engine
(external overlapped)



Side engine
(internal overlapped)



Side engine
(internal overlapped)



(C) Exemption

(D) For doors until 25 m² D=46
For doors over 25 m² D=100

(E) For width until 4 m E=60

For width over 4 m E=90
(F) To regulate the limit switch

(A, B, G, X, Z) Check the tables

Model INSTANT PASS® BASIC



Instant Pass® BASIC at logistic warehouse.

Instant Pass® BASIC is the basic model of a door that has been successful for many years. Built with practically the same specifications as its sister product, this is the perfect door for outdoor accesses and can withstand significant changes in the air current or wind without coming off the guides, without being subject to wear and tear, tears or deformations and remaining unaltered for many years.

Canvas specifications

The canvas is fitted with a series of side reinforcements in tubes of "composite" material made of fibreglass and polyester manufactured by pultrusion, which provides extraordinary resistance to breaking (even with violent impacts from moving vehicles) and can withstand significant air pressures without causing permanent deformations. Rubber caps are mounted on the ends to prevent wear from friction and to reduce noise. The lower skirting is a fabric bag that enables perfect adjustment even on uneven floors. The bag is painted in yellow and black stripes, which indicates a hazardous transit area for material transport industrial vehicles. *See page 38 for the colour range.

Structure

Mainly manufactured from galvanised steel of different thicknesses depending on the purpose of the task. Reinforced sheet metal has been fitted to the insides of the guides and the platform to withstand the significant impacts they are subject to, without causing deformations. It is delivered as standard in natural galvanised steel, although it may optionally be painted in RAL colour. Available in a stainless steel version.

Motor and control panel

Auto locking compact reducer motor with safety catch incorporated. Electronic control panel. Electro-brake for exact positioning and locking the curtain.

Usage recommendations

Some examples of use may be:

- Industrial environments
- Car dealers
- Washing tunnels, etc.

Special situations that do not enable standard configurations to be adapted may be studied by the Angel Mir projects department.

Access security

Option 1: Wireless contact band on the main edge and infra-red barrier at 500 mm from the floor.

Option 2: Infra-red curtain up to 2.5 m height. This system has a series of photocells fitted one on top of another that create the infra-red barrier on the entire height of the door and up to 2.5 m high, which detects any object, including small objects, preventing lowering the door or raising it again if it has already begun to lower. Avoids physical contact with the door.

Performance of the air

Wind resistance as per 12424: class 2
Option: up to class 3.

Dimensions

Maximum: 5,600 x 5,200 mm.
Please ask if larger sizes are required.

HIGH SPEED DOORS

**INSTANT
PASS**

**GRAND
PASS**

**INSTANT
ROLL**

**HERMETIC
ROLL/BALL**

**INSTANT
PROTECT**

EASY ROLL

MIRFLEX

MIRZIP

**GENERAL
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& APPLICATIONS**

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PROJECTS**



Instant Pass® BASIC with double canvas option.



Instant Pass® BASIC at outside.

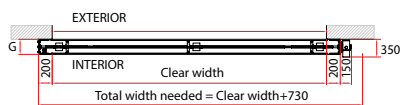


Instant Pass® BASIC with transparent windows.

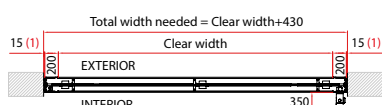
Lintel occupation. Approximate measurements (mm.)

SPAN HEIGHT mm.	2,500	3,000	3,500	4,000	4,500	5,000	5,500	6,000
N° OF PANELS	5	7	7	9	9	9	11	11
B (LINTEL)	1,083	973	1,057	985	1,048	1,110	1,061	1,111

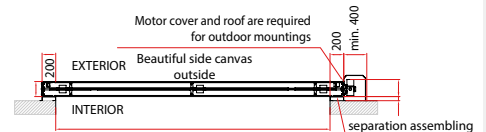
Installation measurements Instant Pass® BASIC (in mm.)



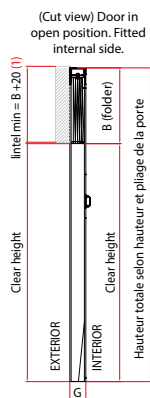
Side engine (internal overlapped)



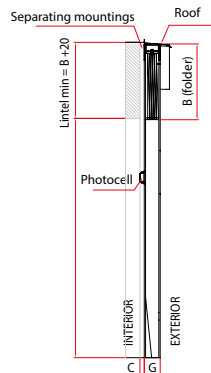
Front engine (between walls)



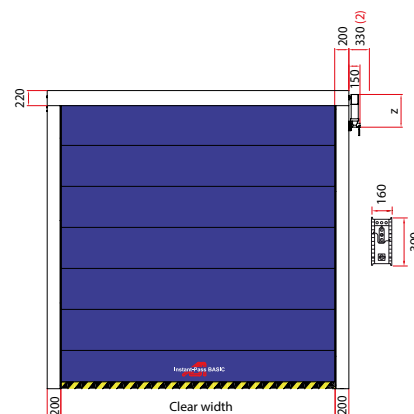
Side engine (external overlapped)



Montage intérieur



Montage extérieur



(1) Exemption
(2) Space required to assemble the motor.

Z: Measurement Z varies between 245 and 522 depending on the motor.
C: for span width <4,000 C=60; for span width >4,000 C=90.

G: Measurements vary between 200 mm and 400 mm.
Check the table for B measurements.

Model INSTANT PASS® ECO



Instant Pass® ECO installed in a temporary warehouse.

Instant Pass® ECO is the speed and stackable door suitable for small accesses facing outwardly and inwardly and / or having to withstand wind loads or important air pressures or depressions. Although its structure is lighter than other models Instant Pass, is a sturdy and solid door, designed for continuous use.

Features of the canvas

The canvas is equipped with a series of cross reinforcements that, depending on the work necessities, are manufactured in galvanized steel of different diameters and

thicknesses or in "composite" material of fiberglass polyester made by pultrusion. This material count on an extraordinary resistance to breakage (even through violent impacts made by vehicles in movement) and great flexibility, so it can bend strongly without permanent deformation.

The ends of the canvas have rubber caps that prevent the wear by friction, and reduce the noise. The lower socle is a band, thanks to it a perfect adjustment even in irregular floors is achieved. The mentioned

band is screen printed with the safety symbols – black and yellow diagonal stripes – indicating the danger in a traffic area of industrial vehicles transporting materials.

Structure

The structure is self-supporting and made with galvanized steel. The finish is in steel sheet lacquered in Blanco Pirineo colour.

Engine and operation panel

Irreversible geared engine for intensive use with integrated sidelight mechanical switches. Electrobrake for a precise positioning and locking of the canvas. Manual release of the electrobrake through cable handles. The canvas is moved via a handle incorporated in the engine itself. Electronic operation panel.

Access security

Wireless contact band on the main edge and infrared barrier at 500 mm from the ground.

Options

- Canvas may incorporate viewing windows made of PVC glass quality
- Engine may be front mounted with chain drive.
- Structure in stainless steel AISI 304L and 316L

Performance of the air

Wind resistance as per 12424: class 2.

Dimensions

Maximum: 5,560 x 4,900 mm.

Lintel occupation.

Approximate measurements (mm.)

SPAN HEIGHT mm.	Nº OF PANELS	B (LINTEL)
2,500	5	1,083
3,000	7	973
3,500	7	1,057
4,000	9	985
4,500	9	1,048
5,000	9	1,110



Instant Pass® ECO in paper industry.

HIGH SPEED DOORS

**INSTANT
PASS**

**GRAND
PASS**

**INSTANT
ROLL**

**HERMETIC
ROLL/BALL**

**INSTANT
PROTECT**

EASY ROLL

MIRFLEX

MIRZIP

**GENERAL
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MENTED
PROJECTS**



Instant Pass® ECO in the workshop.



Instant Pass® ECO in paper industry.

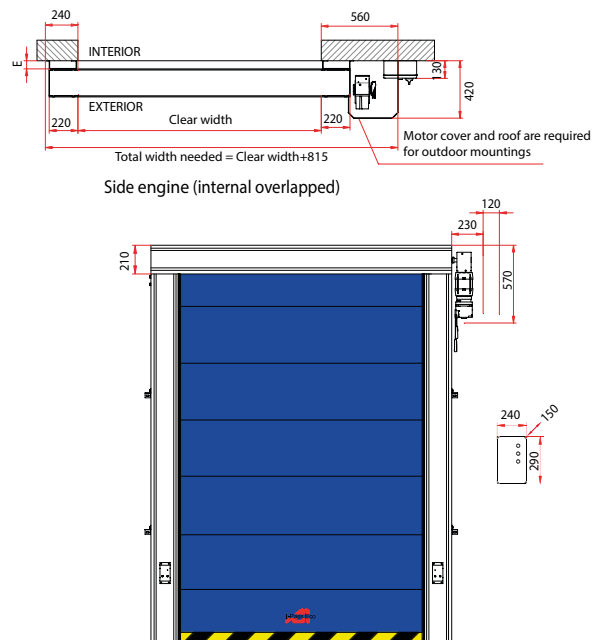
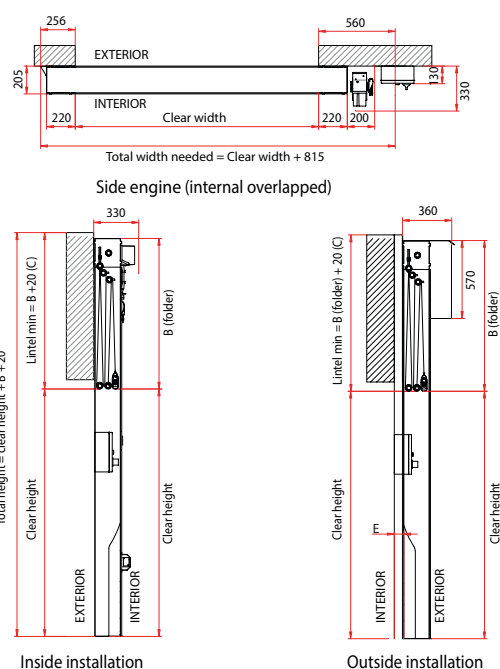


Instant Pass® ECO in supermarket warehouse.



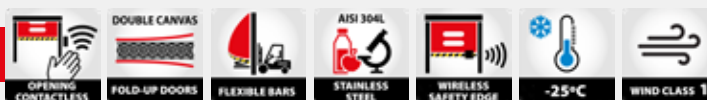
Instant Pass® ECO Stainless in water treatment plant.

Installation measurements Instant Pass® ECO (mm.)



(E) For width until 4000 E = 60
For width over 4000 E = 90
(B) Exemption of installation

Model INSTANT PASS® ISO (for freezing)



Instant Pass® ISO steel inox.



Instant Pass® ISO in frozen food distribution center.

Angel Mir® Instant Pass® ISO doors have been refined based on continual demand for high speed doors for refrigerated chambers. Designed to resist low temperatures.

Canvas specifications

The mobile curtain is made up of a series of panels, made up of a double fabric wall made from Trevira impregnated with PVC and a flexible polyurethane foam insulating laminate on the inside. The panels are pre-formed so that they fold easily on the creases.

Polyamide locking joint on the ends of the mobile curtain.

Waterproof insulating canvas on the upper front of the mobile curtain.

Roll-up PVC cover on the upper part of the platform for maintenance access to the shaft case. The composite side reinforcements, sheathed in canvas enable the door to withstand pressures from air currents caused by differences in temperature or open doors. The material they are made of enables them to withstand strong impacts without breaking or causing permanent deformations.

Structure

Mainly manufactured from galvanised steel of different thicknesses depending on the purpose of the task. Reinforced sheet metal has been fitted to the insides of the guides and the platform to withstand the significant

impacts they are subject to, without causing deformations.

Special brushes for low temperatures are placed on the mountings to improve the seal.

Motor and control panel

Self-locking reducer motor for intensive use with integrated position mechanical switches. Designed to withstand low temperatures. Electro-brake for exact positioning and locking the curtain with increased protection for preventing moisture from entering and ice from forming.

Manual release of the electro-brake with a handle. Manual opening system with a crank. Control panel with polyester box and increased protection. Control panel controlled by a programmable automaton, configured with a specific algorithm for this type of auctioning.

The security photocells are heated to prevent ice formation.

Characteristics

This model DOESN'T work as the only door for negative chambers, separating positive temperature environments. It should always be combined with a cooler sliding door.

In order to prevent the formation of ice or frost, these doors must be assembled in dehumidified areas. They cannot be mounted as a separation between freezing

chambers and areas having temperature and humidity around them.

They cannot include transparent window. Usually, the operation panel should be assembled on the positive side. If installed in negative zone, it should be heated.

Maximum temperature – 25°.

Options

- Painted and galvanized steel structure.
- Insulated and heated guides.
- Heated operation panel.
- Heated engine.

Performance of the air

Wind resistance as per 12424:
Class 2.

Dimensions

Maximum: 4,000 x 4,000 mm.

Lintel occupation.

Approximate measurements (mm.)

SPAN HEIGHT mm.	Nº OF PANELS	B (LINTEL)
2,500	5	1,083
3,000	7	973
3,500	7	1,057
4,000	9	985



Instant Pass® ISO with air curtain.



Instant Pass® ISO in frozen supermarket warehouse.

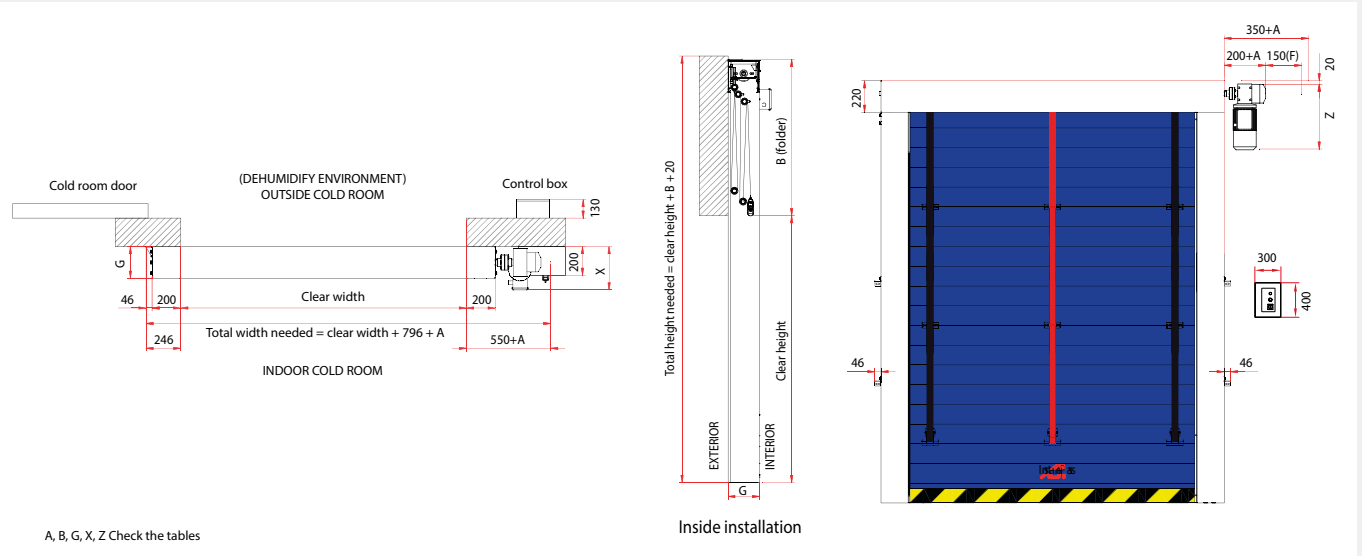


Instant Pass® ISO in a cold room for food industry.



Instant Pass® ISO in frozen warehouse.

Installation measurements Instant Pass® ISO (in mm.)



The figures provided here are intended for guidance only. Please ask our sales department to confirm any information.

NEW

Model **INSTANT PASS ISO VERTICAL®**

The model **Instant Pass® ISO VL** from **Angel Mir®** is a speed door with vertical lifting suitable to be used in cold stores having negative temperature until -25°. Self-supporting structure in stainless steel AISI 304 with satin finishing. The canvas is rigid like a panel and is made of sandwich whose two outer faces are PVC canvas and is filled with thermal insulating material. As its total thickness is 28 mm, the insulation is greater compared to the stackable version thanks to the vertical opening system.

Options

- Motor protection in stainless steel
- Heated motor protection
- Heated switchboard

Access security

Wireless contact band on the main edge and infrared barrier at 500 mm from the ground.

Performance of the air

Wind resistance as per 12424: class1

Dimensions

Maximum: 4,000 x 4,500 mm.



Model **GRAND-PASS®**



Grand Pass® for hangars.

Fast doors designed for large openings and high wind pressures.

The mobile curtain is made up of a series of panels made up of a double canvas wall made from plasticised trevira.

The canvas specifications may vary depending on the application with different thicknesses or reinforced with a vandal-proof steel cable fabric.

This is fitted, sideways, with reinforcements made with extruded aluminium structural tube. Varying the layout and quantity of these elements may increase resistance to wind.

Polyester straps pull the aluminium tubes upwards, so that the whole curtain is folded on the upper platform, which houses the motors, shafts, pulleys and pull-up mechanisms.

The vertical guides are manufactured from galvanised steel plate and are fitted with a series of internal reinforcements to withstand the stresses from the wind, calculated according to customer requirements.

For wider spaces, groups of individual doors can be used; the central guides are dismountable or retractable, and once group of doors have opened, the guides retract, manually or automatically, giving maximum width of passage.

Once the large vehicle has entered the warehouse, the guides are returned to the correct positions and the doors operate individually. Given the complex nature of these types of doors, the specifications required for this application are determined in a technical study.

Maximum dimensions: tailored.

Wind resistance: depend on door sizes.

Applications

- Aeronautics industry
- Naval industry
- Removable hangars
- Gantry cranes
- Steel industry
- Waste treatment plants
- Grain silos
- Large dimension painting cabins



Grand Pass door with 3 leaves.



Foot withdrawal movement.



Door foot detail.



Moving foot detail.

HIGH SPEED DOORS

INSTANT
PASS

**GRAND
PASS**

INSTANT
ROLL

HERMETIC
ROLL/BALL

INSTANT
PROTECT

EASY ROLL

MIRFLEX

MIRZIP

GENERAL
SPECIFICATIONS
& APPLICATIONS

IMPLE-
MENTED
PROJECTS



Grand Pass® in hangar.



Grand Pass® in hangar.



Grand Pass® in naval industry.



Grand Pass® in the port hangar.



Grand Pass® in steel industry.

Model INSTANT ROLL®



Instant Roll®



Instant Roll® in a logistics centre.



Instant Roll® with front motor.

The outer frame is a self-supporting frame made of galvanised and painted steel plate, made up of two posts, which act as guides and supporting base (the edges that come into contact with the fabric are protected by industrial brushes which minimize friction and increase the seal), and an upper beam in the form of an accessible drawer.

The aluminum roller shaft is inside the platform, mounted on supports with bearings. The curtain rolls onto the shaft. The structure is self-supporting and is secured with simple reinforcement anchorage and thus does not require major fastening systems on site.

Canvas specifications

The canvas has a series of transversal reinforcements, which provide the resistance required for the air pressure currents it will endure. The lower skirting is a PVC bag, enabling perfect adjustment on uneven floors. The

bag is painted in yellow and black stripes, for greater identification of the transit area.

Applications:

- Agro food industry.
- Supermarkets.
- Shopping centres.
- Laboratories.
- Industries.

Recommendations

It is designed to fit in almost any space. Special situations that do not enable standard configurations to be adapted may be studied by the Angel Mir projects department.

Options

- Emergency opening system by means of UPS or mechanical system.
- AISI 304L and 316L stainless steel structure.
- ATEX certified doors for explosive environments. Powder, paint or gas.
- See-through canvas.

- Double isolation canvas.
- Sealing joints

Access security

Option 1: Wireless contact band on the main edge and infra-red barrier at 500 mm from the floor.

Performance of the air

Wind resistance as per 12424:
Class 1 up to 4,000 x 4,000 mm.
Class 0 up to 5,000 x 5,000 mm.

Maximum dimensions:

5,000 x 5,000 mm.

HIGH SPEED DOORS

INSTANT
PASS

GRAND
PASS

**INSTANT
ROLL**

HERMETIC
ROLL/BALL

INSTANT
PROTECT

EASY ROLL

MIRFLEX

MIRZIP

GENERAL
SPECIFICATIONS
& APPLICATIONS

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MENTED
PROJECTS



Instant Roll® in food industry.



Instant Roll® with see-through canvas in cars reception.

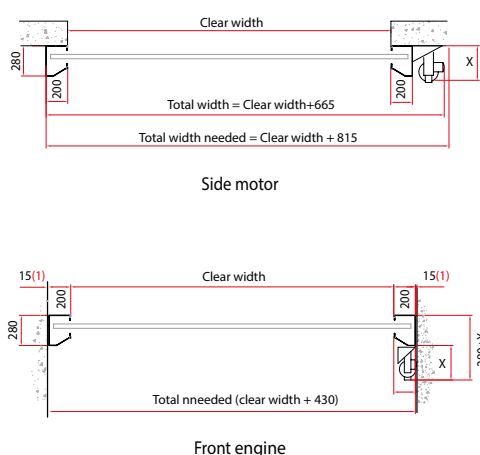


Instant Roll® two-colour canvas in the pharmaceutical industry.



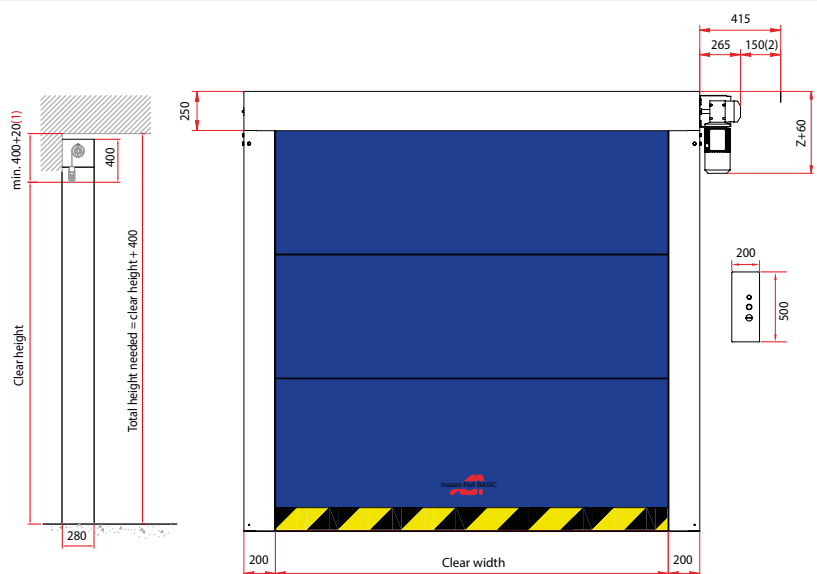
Instant Roll® in food industry.

Installation measurements Instant Roll® (in mm.)



Door dimensions	Motor dimensions X x Z
until 9m ²	245 x 400
until 21m ²	300 x 470

- (1) Exemption
(2) To regulate the limit switch



With mechanical opening system it increases 250mm of bracelet.

Model INSTANT ROLL® ECO



Instant Roll® ECO in environmental industry.



Instant Roll® ECO with double canvas and sealing gaskets.

Instant Roll® ECO is the lightweight version of the Instant-Roll door. It has adequate provisions for medium size openings with moderate air pressure for indoor use.

Structure

The curtain is situated between two mountings in a U shape, which act as a guide and support base for the entire set. It is reinforced, on the inside, with profiles that provide the resistance required to resist the forces it will be subject to and to withstand the weight and forces of the upper shaft with the curtain and the motor. A rounded aluminium profile is mounted on the outside edge which, in addition to reinforcing the base, reduces friction on the canvas.

There is an industrial brush on the inside edge, which minimises air entry and smooths friction on the canvas. The supports are situated on the head, which support the aluminium shaft, mounted on ball bearings, on to which the curtain rolls and the motor is fastened. They are made from galvanised steel and pre-lacquered in white and the supports and other accessories are made from galvanised steel in different thicknesses depending on the application requirements. The bases are fastened to the floor and the head to a light structure that prevents swaying. In order to ensure greater resistance to frontal forces, one or two middle fastenings are required depending on the height. The shaft can optionally be covered with a sheet cover pre-lacquered in the same colour as the mountings.

Curtain specifications

The canvas has a series of lengthwise reinforcements, which provide rigidity and the resistance required for the air pressure currents it will endure. A concave/convex profile made of "composite" materials is sheathed in the curtain.

This profile has extraordinary resistance to breaking (even with violent impacts from moving vehicles) and can withstand significant flexing without causing permanent deformations. The lower skirting is a PVC bag, enabling perfect adjustment even on uneven surfaces. The bag is painted in yellow and black stripes, for greater identification of the transit area.

Motor and control panel

Compact self-locking reducer motor for intensive use with integrated position mechanical switches. Internal safety catch. Electro-brake for exact positioning and locking the canvas. Manual release of the electro-brake with handles. Manual opening system with a crank or chain. Control panel: Single phase 220 V power supply and control panel with programmable automaton and with a frequency converter for regulating speeds.

Access security

Infra-red curtain up to 2.5 m height. This system has a series of photocells fitted one on top of another that create the infra-red barrier on the entire height of the door and up to 2.5 m high, which detects any object,

including small objects, preventing lowering the door or raising it again if it has already begun to lower. Avoids physical contact with the door.

Options

- Emergency opening system via UPS with single phase panel.
- AISI 304L and 316L stainless steel structure.
- Double canvas
- See-through canvas
- Sealing joints

Performance of the air

Wind resistance as per 12424: class 0.

Dimensions

Maximum: 4,500 x 4,500 mm.



Detail of infra-red barrier.

HIGH SPEED DOORS

INSTANT
PASS

GRAND
PASS

**INSTANT
ROLL**

HERMETIC
ROLL/BALL

INSTANT
PROTECT

EASY ROLL

MIRFLEX

MIRZIP

GENERAL
SPECIFICATIONS
& APPLICATIONS

IMPLE-
MENTED
PROJECTS



Instant Roll® ECO in repair workshop.



Sealing joints and double canvas option.

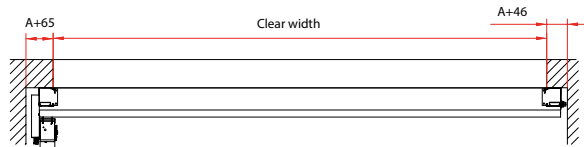


Instant Roll® ECO in logistic storage.

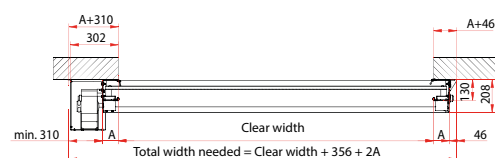


Instant Roll® ECO STAINLESS version.

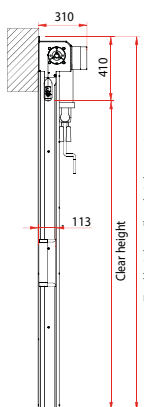
Installation measurements Instant Roll® ECO (in mm.)



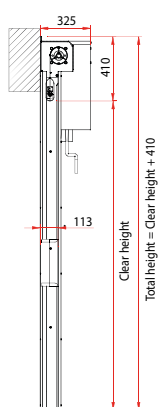
Front engine



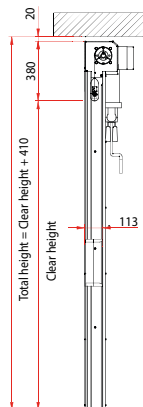
With motor cover (optional)



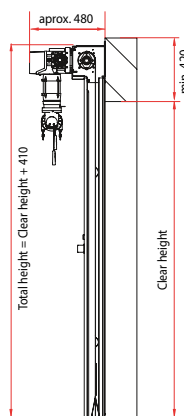
Side motor



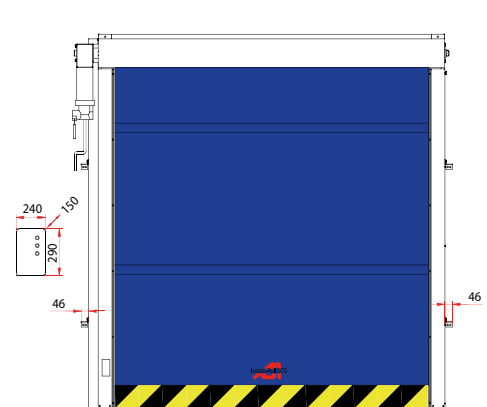
With motor cover (optional)



With front and rear covers



Front motor



(A) For clear width over 3.000 A=100
(A) For clear width over 3.000 A=150

INSTANT
PASS

GRAND
PASS

**INSTANT
ROLL**

HERMETIC
ROLL/BALL

INSTANT
PROTECT

EASY ROLL

MIRFLEX

MIRZIP

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& APPLICATIONS

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MENTED
PROJECTS

Model **INSTANT ROLL® BASIC**



Instant Roll® BASIC STAINLESS with simple canvas.



Instant Roll® BASIC with double canvas.



Instant Roll® BASIC Stainless with double canvas.

The speed rolling door **Instant Roll® BASIC** are suitable for medium-sized voids located indoors and having an intense flow, as in production and storage areas. They have been designed to occupy a minimal space and capable to withstand light air pressures-depressions.

Features of the canvas

The canvas incorporates a number of longitudinal reinforcements providing stiffness through a concave-convex tubular profile, made with "composite" materials, that is inserted into a cladding on the canvas. This profile count on an extraordinary resistance to breakage (even through violent impacts made by vehicles in movement) and a great flexibility, so it can bend without permanent deformations.

The lower sole is a band, thanks to it a perfect adjustment even in irregular floors is achieved. The mentioned band is screen printed with the safety symbols – black and yellow diagonal stripes – indicating the danger in areas having vehicles flow.

Structure

The structure is self-supporting thanks to the guide reinforcement profiles made of prelacquered galvanized sheet, and to its upper platform built with the same material.

Motor and control panel

The door Instant Roll Basic carries an irreversible compact geared motor for intensive use. On the other hand, the standard configuration of the operation panel comes equipped with a frequency variator allowing a high speed of lifting and a descent at reduced speed, with soft starts and stops. So, the strong impacts of the starting and stopping of the engine are eliminated, improving therefore its reliability.

Access security

Standard: curtain of photocells placed one above the other creating an infrared curtain across the door width and up 2.5 m. height. This infrared curtain detects any object, including small ones,

preventing the door lowering or lifting again if it has already started to go down. Avoids physical contact with the door.

Options

- The finish of the canvas may be in various colours similar to RAL, while the structure finish can be in galvanized steel or also in a RAL colour chosen by the customer.
- Sealing joints
- Available Instant Roll Basic Inox Plus 100% in stainless steel

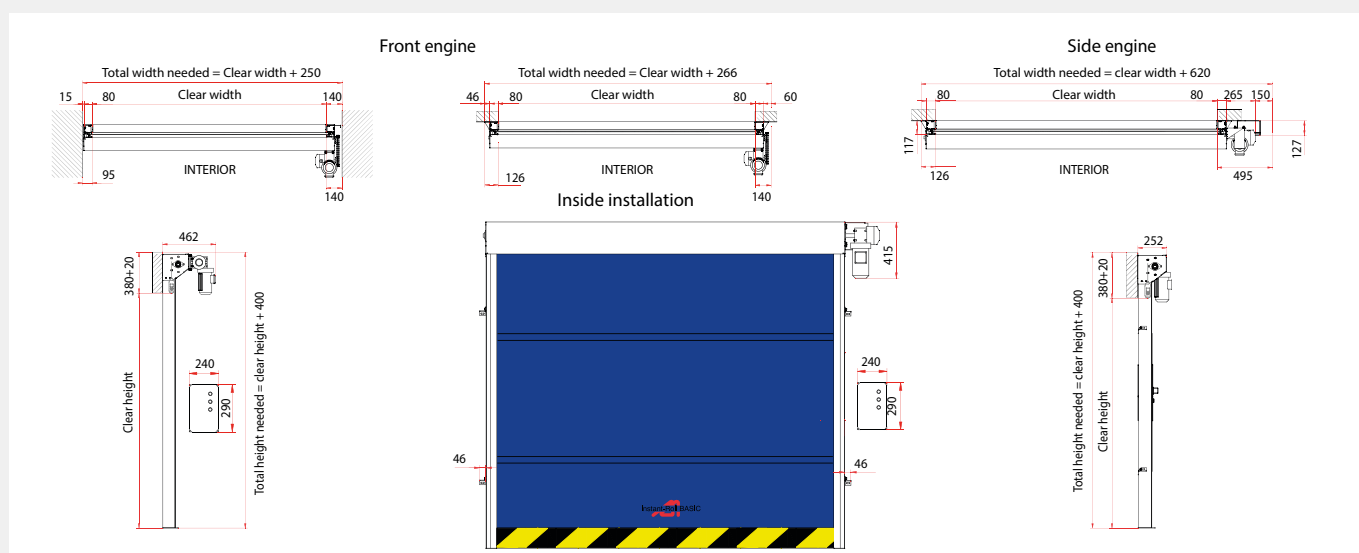
Performance of the air

Wind resistance as per 12424: Class 0.

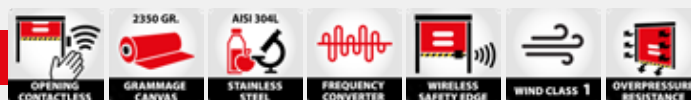
Dimensions

Maximum: 3,300 x 3,500 mm

Installation measurements Instant Roll® BASIC (in mm.)



Model HERMETIC ROLL® (for clean rooms)



The speed rolling door Hermetic Roll overcomes small size voids, ideal for the pharmaceutical industry. It has been designed to have a low permeability to the air and a good resistance to air pressures, making it perfect to be installed in clean rooms having positive or negative pressure. It prevents dirt accumulation. The top hood is inclined to favour the runoff of the materials placed on top.

Structure

AISI 304 stainless steel structure designed to prevent the accumulation of dust and dirt. The top hood is tilted to promote the flow of materials deposited on top.

Canvas features

The curtain is made of PVC tarpaulin with high longitudinal flexibility and rigidity cross. Reinforcements are not necessary longitudinal so the curtain is smooth without highlights or edges. Standard color: rough and FDA quality available in grey, blue, orange or red. Antistatic fabric only in gray. See page 38.

Options

- Vision windows made with quality PVC 2mm glass of thickness.
- Galvanized and painted steel structure or in AISI 316 stainless steel.

- Emergency opening system through UPS.
- Buttons on the feet.
- Frame shifted

Performance of the air

Wind resistance as EN 12424: class 1 / Air permeability as EN 12426: class 2. Loss of air A 30 Pa: Positive pressure below $2 \text{ m}^3 / \text{H m}^2$ / Negative pressure below $4 \text{ m}^3 / \text{H m}^2$.

Dimensions

Maximum: 2,900 x 3,500mm

Ask for other sizes



Hermetic Roll® in pharma industry



Hermetic Roll® in cosmetics lab



Proximity switch for wall.



Integrated switch.

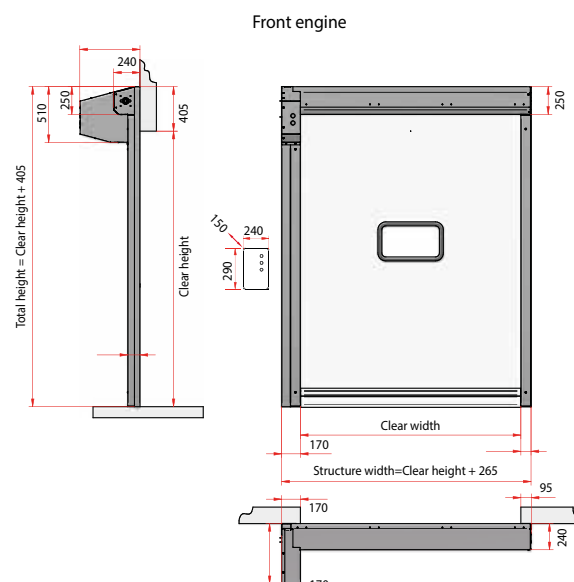
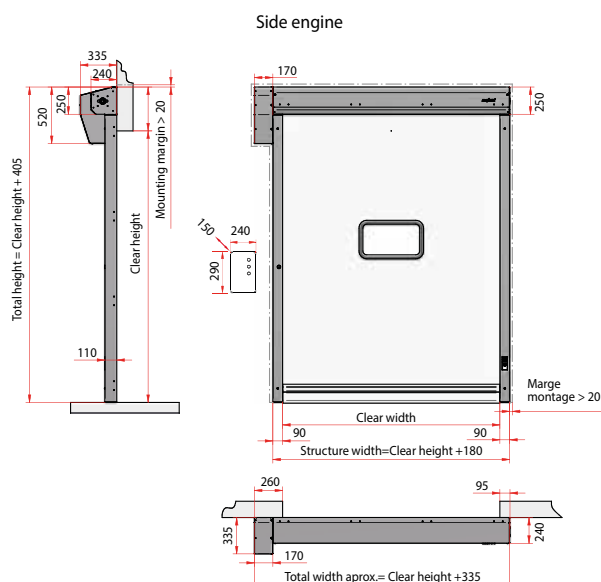


Contactless switch.



Guide detail.

Installation measurements Hermetic Roll® (in mm.)



Model **HERMETIC BALL®** (for clean rooms)



Hermetic Ball® BASIC

NEW



Hermetic Ball® PREMIUM



The new **roll-up high-speed door for clean rooms in pharmaceutical industry** stands out for providing high air tightness and for its **minimalist design** that reveals only the most essential of the door. Both features designed to prevent the entry of air and any external contamination.

Hermetic Ball Basic: motor located on the side of the door.

Hermetic Ball Premium: motor integrated into the upper receptacle of the door together with the control panel, allowing to install the door levelled between walls and to reduce even more the door ensemble.

Structure

It has an aluminium structure having a reduced configuration thanks to a minimum clearance

of the guides. In addition, these guides include a double lip to increase the tightness of the door. It has a crossed photocell curtain to guarantee safety during opening and closing manoeuvres.

Canvas characteristics

Light PVC canvas that slides by means of a ball bearing mechanism inside the door guides. High flexibility in the rolling direction and high transversal rigidity.

Standard colour: rough and FDA quality surface available in grey, blue, orange or red. Antistatic fabric only in grey. See page 38.

Options:

- LED in the pillars to signal the manoeuvre, red/green.
- Contactless switch Mirwave to open the door.

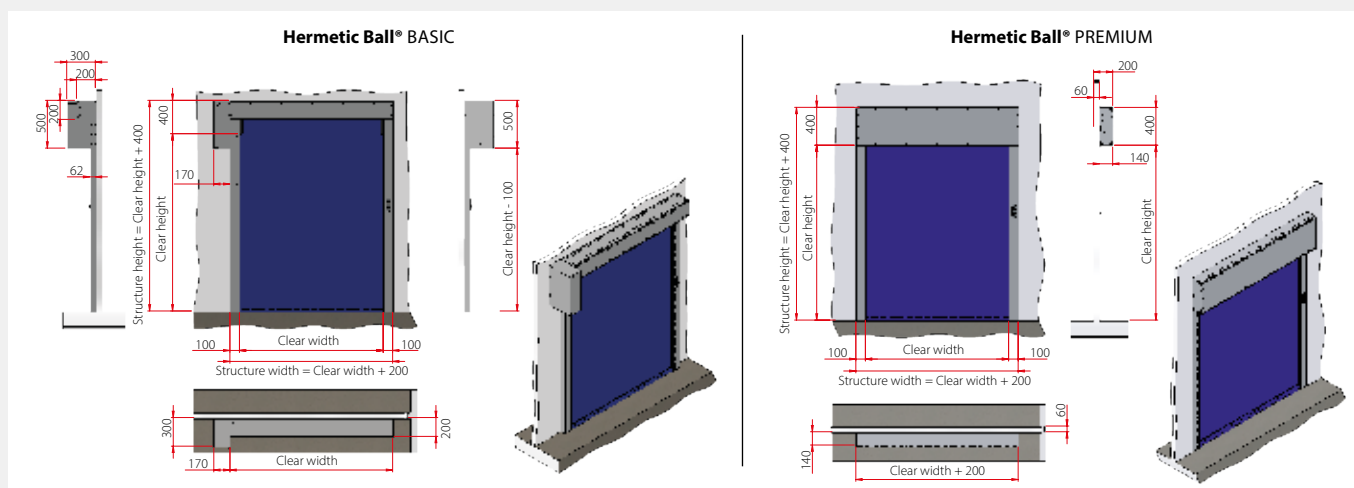
Performance of the air

Class 3 Certification with a pressure of 50 Pa (m3/m2h) for the classification to the Air permeability (positive and negative pressure) and a Class 3 with a pressure of 150 Pa (N/m2) for the Resistance to water penetration.

Dimensions

Maximum: 2,900 x 3,000 mm

Installation measurements Hermetic Ball® (in mm.)



Model INSTANT PROTECT®



The **Instant Protect®** high-speed roll-up door is ideal for openings of average size. It is intended for use as a separator of robotic cells or access to machines. It's a resistant door to moderate air currents and light impacts. The structure is intended for integration in demanding environments, and the engine and control panel for very intensive use. This model of door also incorporates two limit switches in the lower part up to category 4 for safe closed door detection.

Canvas features

The curtain is made of 2 mm thick PVC canvas with high longitudinal flexibility and transverse stiffness. They are not necessary longitudinal reinforcements although in case of higher requirements, the canvas can be reinforced. Standard colour: orange PVC with rough linen surface, optionally it can be in other colors. Antistatic fabric (only in grey).

Passage safety

Photocell curtain. See page 38.

Options

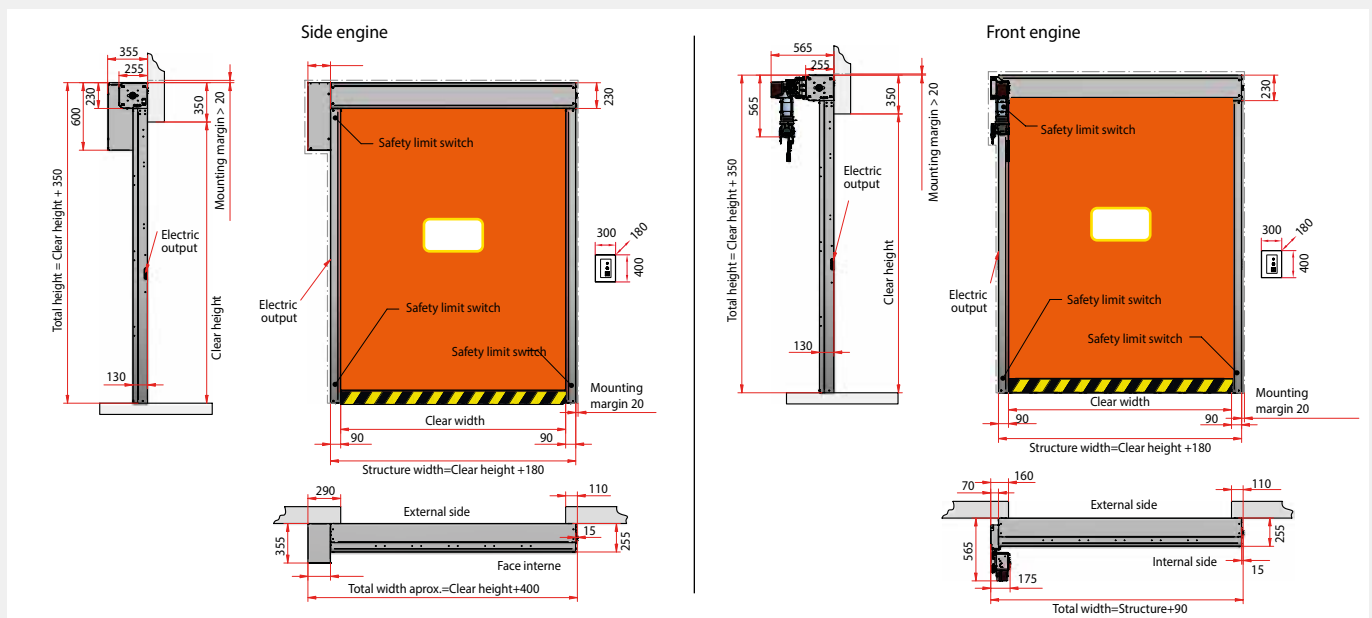
- Vision windows made of 2 mm glass quality PVC thick integrated into the canvas itself.
- Possibility of red peepholes for welding areas.
- Motor for very intensive use.
- Special control panels adapted to the client.

Dimensions

Maximum: 3,000 x 3,000 mm.



Installation measurements Instant Protect® (in mm.)



Model **EASY ROLL ALU®**



The assembly of this model is simple and fast and precise for solid fixing.

Canvas features

Canvas in technical polyester fabric impregnated with tinted PVC and high resistance to wear and discoloration. The cross braces they are made of fiberglass and polyester composite. bottom plinth of polyester impregnated with yellow PVC.

Options

- Emergency opening system by UPS or mechanical system.
- Replaceable central PVC peepholes.

Security access

Photocells curtain up to 2500mm high.

Performance of the air

Wind resistance as EN 12424: class 0

Dimensions

Maximum: 3,000 x 3,000

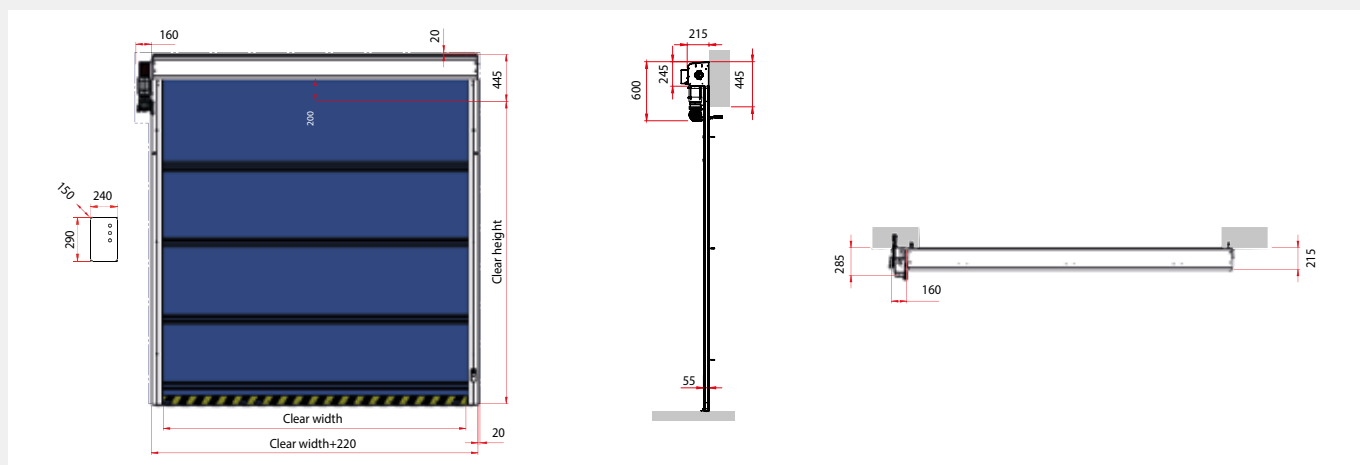
The **Easy Roll®** high-speed roll-up door is indicated for places with a moderate passage of vehicles and a light support (such as panels sandwich or similar), especially in interior gaps that separate different environments with low air pressures.

Its small and lightweight design is perfect for replacing slat curtains and very common P.V.C swing doors between warehouses, supermarkets, etc. It is a door of high reliability and low maintenance.

Simplified non-self-supporting structure formed by side guides aluminum of reduced dimensions and with an aesthetic lacquered finish white 9016 or silver anodized, which at the same time support the axis of aluminum coil on which the canvas is rolled.



Installation measurements Easy Roll Alu® (in mm.)



HIGH SPEED DOORS

INSTANT
PASS

GRAND
PASS

INSTANT
ROLL

HERMETIC
ROLL/BALL

INSTANT
PROTECT

EASY ROLL

MIRFLEX

MIRZIP

GENERAL
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PROJECTS

Model **EASY ROLL INOX®**



Easy Roll® high-speed roll-up door with a steel finish AISI 304 or AISI 316 stainless steel.

Maximum sizes: 3,300 x 3,000 mm



Easy Roll® INOX

Model **EASY ROLL® INSECT**



Manually operated door with canvas of perforated fabric used as a barrier against insects. The drive is manual, easy, and fast and doesn't need electricity. Convenient for production facilities and food handling. Structure in galvanise steel or stainless steel. Economic price. Option: automatic door with slow engine.

Maximum sizes: 3,500 x 3,000 mm.

* For range of colours and types of canvas see page 38.

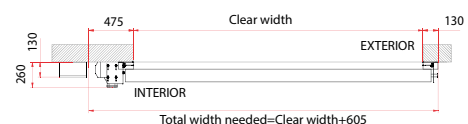
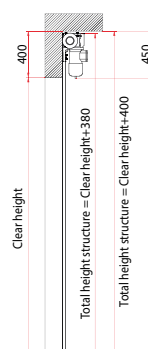
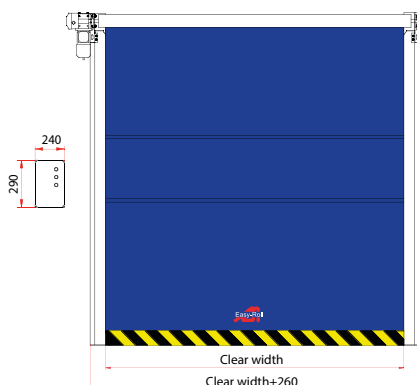


Easy Roll® INSECT manual version.

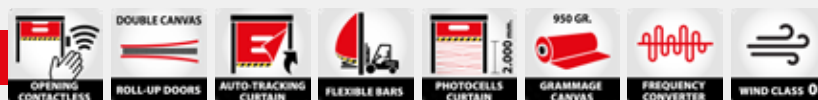


Easy Roll® INSECT slow engine version at loading dock.

Installation measurements **Easy Roll INOX® / INSECT® Speed** (in mm.)



Model MIRFLEX® AUTO-TRACKING



A rolling door for medium size openings, ideal for separating different environments and passage ways between buildings, warehouses or stores. Designed with different small size profiles, they take up little of the opening's light space and require little space on the side bracelets and on the lintel. They are resistant to moderate air currents and the curtain has a system of flexible reinforcements that come off the guides when they receive a strong impact and roll up again when the door opens.

Structure

Vertical mountings made up of a reinforced guide made from extruded aluminium and with a specific design for this model door, housed in a double rectangle profile made from 1.5 mm stainless steel.

Galvanised and lacquered. Galvanised and lacquered steel sheet base with eyelets for fastening to the floor. Black polyethylene tracking. Support platform for the rolling drum and the motor made from galvanised and lacquered stainless steel. Aluminium rolling drum with galvanised steel shaft on supports with ball bearings.

The bases are fastened to the floor and the head to a light structure that prevents swaying. In order to ensure greater resistance to frontal forces, one or two middle fastenings are required depending on the height.

Canvas specifications

The canvas has a series of lengthwise reinforcements, which provide rigidity and the resistance required for the air pressure currents it will endure. A concave/convex profile made of "composite" materials is sheathed in the curtain.

This profile has extraordinary resistance to breaking (even with violent impacts from moving vehicles) and can withstand significant flexing without causing permanent deformations. The lower skirting is a PVC bag, enabling perfect adjustment even on uneven surfaces. The bag is painted in yellow and black stripes, for greater identification of the transit area.

Auto tracking system

In the event of impact on the curtain, the sheet bends thanks to the flexibility of the reinforcements and can come off the guides. When it goes up again, the ends of the



Mirflex® AUTO-TRACKING in frozen food production plant.

reinforcements are reinserted into the guides thanks to the auto tracking system on the lower part. The door is then ready for the next manoeuvre. The system reduces the span width by 80 mm.

Motor and control panel

Self-locking reducer motor for intensive use with integrated position mechanical switches.

Electro-brake for exact positioning and locking the canvas. Manual release of the electro-brake with a handle. Manual opening system with a crank.

Control panel: 220 V single phase power supply and 24 V operating voltage.

Control panel with programmable automaton and frequency converter for speed regulation.

Access security

Option 1: Wireless contact band on the main edge and infra-red barrier at 500 mm from the floor.

Option 2: Infra-red curtain up to 2.5 m height. This system has a series of photocells fitted one on top of another that create the infra-red barrier on the entire height of the door and up to 2.5 m high, which detects any object, including small objects, preventing lowering the door or raising it again if it has already begun to lower. Avoids physical contact with the door.

Options

- Emergency opening system via UPS or mechanical system.

- AISI 304L and 316L stainless steel structure.
- Available Mirflex Inox Plus 100% in stainless steel
- Double canvas
- Motor IP65

Performance of the air

Wind resistance as per 12424: up to class 0.

Dimensions

Maximum: 3,300 x 3,500 mm.
Please, ask for higher heights.



Mirflex® AUTO-TRACKING with traffic lights in the logistics center.

HIGH SPEED DOORS

INSTANT
PASS

GRAND
PASS

INSTANT
ROLL

HERMETIC
ROLL/BALL

INSTANT
PROTECT

EASY ROLL

MIRFLEX

MIRZIP

GENERAL
SPECIFICATIONS
& APPLICATIONS

IMPLE-
MENTED
PROJECTS



Mirflex® AUTO-TRACKING in meat industry.

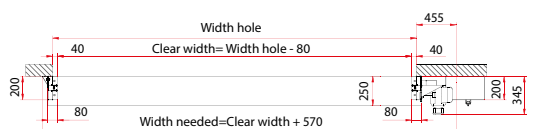


Mirflex® AUTO-TRACKING with double canvas in food industry.

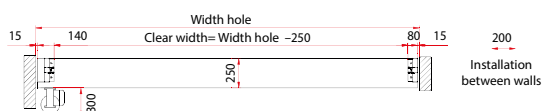


Mirflex® AUTO-TRACKING Inox in meat industry.

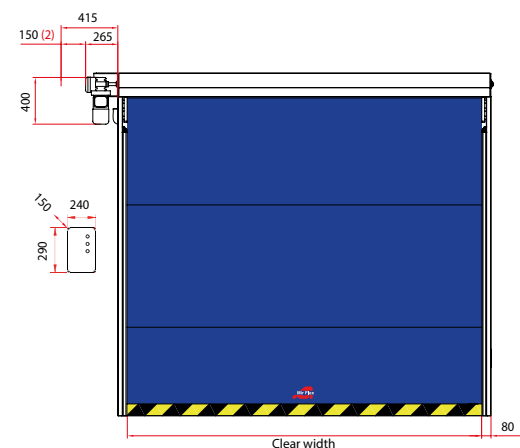
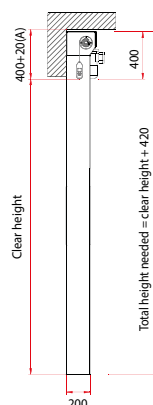
Installation measurements Mirflex® AUTO-TRACKING (in mm.)



Side engine



Front engine



NOTE:
- Doors with clear height > 3.200mm is necessary extra lintel 50mm
- Double canvas doors, is necessary extra lintel 80mm
- With mechanical opening system it increases 250 mm of bracelet.

- (1) Exemption
(2) For assembling and disassembling the motor

Model MIRFLEX ECO® AUTO-TRACKING



This is the lightweight version of Mirflex® AUTO TRACKING, for medium size openings, ideal for separating different environments and passage ways between buildings, warehouses and stores.

Designed with different small size profiles, they take up little of the opening's light space and require little space on the side bracelets and on the lintel.

They are resistant to moderate air currents and the curtain has a system of flexible reinforcements that come off the guides when they receive a strong impact and roll up again when the door opens.

Structure

Vertical mountings made up of a reinforced guide made from extruded aluminium and with a specific design for this model door, housed in a double rectangle profile with central housing for the guide. Can be delivered lacquered in two colours (Pyrenees white and grey RAL 9007) and stainless steel anodised. Stainless steel sheet base with eyelets for fastening to the floor. Black polyethylene tracking.



Mirflex ECO® AUTO-TRACKING stainless.

The aluminium rolling drum is situated between two stainless steel supports with reinforced bearings that support the shaft.

The bases are fastened to the floor and the head to a light support structure. In order to ensure greater resistance to frontal forces, one or two middle fastenings are required depending on the height.

Canvas specifications

The canvas has a series of lengthwise reinforcements, which provide rigidity and the resistance required for the air pressure currents it will endure. A concave/convex profile made of "composite" materials is sheathed in the curtain.

This profile has extraordinary resistance to breaking (even with violent impacts from moving vehicles) and can withstand significant flexing without causing permanent deformations. The lower skirting is a PVC bag, enabling perfect adjustment even on uneven surfaces. The bag is painted in yellow and black stripes, for greater identification of the transit area.

Auto-tracking system

In the event of impact on the curtain, the sheet bends thanks to the flexibility of the reinforcements and can come off the guides.

When it goes up again, the ends of the reinforcements are reinserted into the guides thanks to the auto-tracking system on the lower part. The door is then ready for the next manoeuvre. The system reduces the span width by 80 mm.

Motor and control panel

Compact self-locking reducer motor for intensive use with integrated position mechanical switches. Internal safety catch. Electro-brake for exact positioning and locking the canvas. Manual release of the electro-brake with handles. Manual opening system with a crank or chain. Control panel. 230/400 V three phase power supply. Electronic control panel.

Option: Single phase 220 V power supply and control panel with programmable automaton and with a frequency converter for regulating speeds.

Options

- Emergency opening system via UPS or mechanical system.
- Available Mirflex Eco Inox Plus 100% in stainless steel.
- Double canvas

Access security

Option 1: Wireless contact band on the main edge and infra-red barrier at 500 mm from the floor.

Option 2: Infra-red curtain up to 2.5 m height.

This system has a series of photocells fitted one on top of another that create the infra-red barrier on the entire height of the door and up to 2.5 m high, which detects any object, including small objects, preventing lowering the door or raising it again if it has already begun to lower. Avoids physical contact with the door.

Performance of the air

Wind resistance as per 12424: up to Class 0.

Dimensions

Maximum: 3,300 x 3,500 mm.
Please, ask for higher heights.

HIGH SPEED DOORS

INSTANT
PASS

GRAND
PASS

INSTANT
ROLL

HERMETIC
ROLL/BALL

INSTANT
PROTECT

EASY ROLL

MIRFLEX

MIRZIP

GENERAL
SPECIFICATIONS
& APPLICATIONS

IMPLE-
MENTED
PROJECTS



Mirflex ECO® AUTO-TRACKING with printed canvas.



Mirflex ECO® AUTO-TRACKING in food industry.



Mirflex ECO® lacquered in white color at food industry.

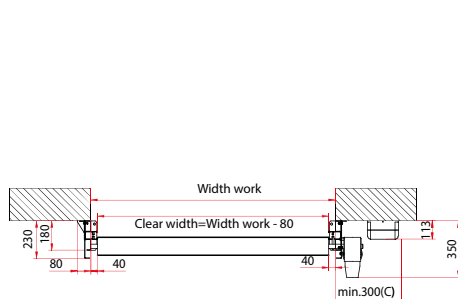


Mirflex ECO® ECO in logistic center of a distribution chain.



Mirflex ECO® AUTO-TRACKING with see-through canvas.

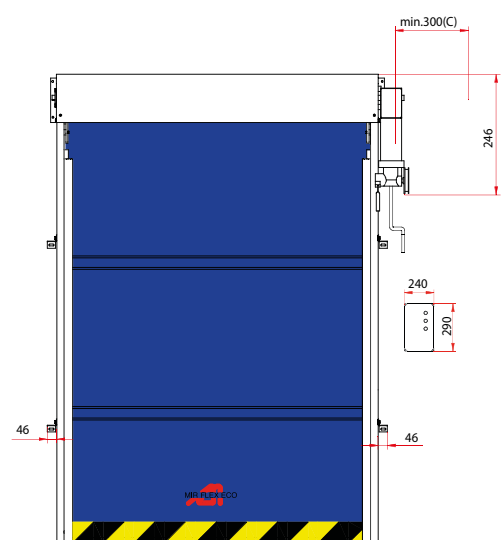
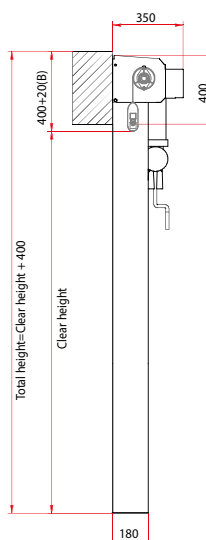
Installation measurements Mirflex ECO® AUTO-TRACKING (in mm.)



- Doors with clear height > 3.200mm is necessary extra lintel 50mm
- Double canvas doors, is necessary extra lintel 80mm
- With mechanical opening system it increases 250 mm of bracelet.

- (B) Exemption of installation
(C) To assembling and disassembling the motor

- For total height up to 3m manual operation by crank
- For total height over 3m manual operation by chain



HIGH SPEED DOORS

INSTANT
PASS

GRAND
PASS

INSTANT
ROLL

HERMETIC
ROLL/BALL

INSTANT
PROTECT

EASY ROLL

MIRFLEX

MIRZIP

GENERAL
SPECIFICATIONS
& APPLICATIONS

IMPLE-
MENTED
PROJECTS

Model MIRFLEX® EC INOX PLUS



Mirflex® EC INOX PLUS in meat industry.



The **MIRFLEX® EC INOX PLUS** model by **Angel Mir®** is a high-speed door roller manufactured with a **structure entirely in stainless steel 304 or 316** for interior between rooms and areas where required great hygiene or to separate environments with different temperatures.

It is a door to save medium-sized interior gaps; occupies very little space in the light shaft and requires little space in the side bracelets and on the lintel.

Non-self-supporting and corrosion resistant structure. Curtain with self-tracking system: the curtain has a system of reinforcements flexible that come out of the guides when they receive a strong impact and they get back on track when the door goes up. Includes frequency variator.

It is a door resistant to light currents of air and designed to intensive use.

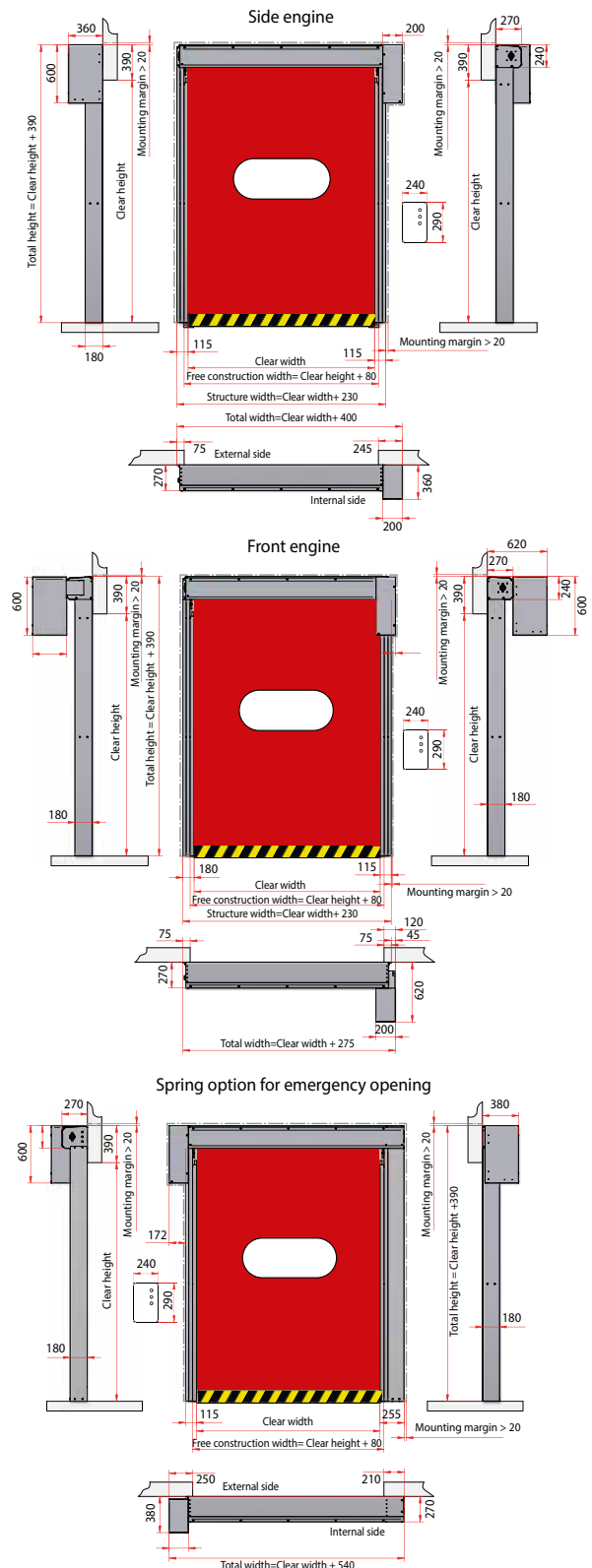
Options

- Peepholes
- Double insulating canvas
- Emergency opening system by UPS or mechanical system
- Motor IP65

Maximum measurements: 3,300 x 3,500 mm.

Wind resistance in standard configuration: class 0

Installation measurements Mirflex EC® AUTO-TRACKING (in mm.)



NOTE: - Doors with clear height > 3,200mm is necessary extra lintel 50mm
- Double canvas doors, is necessary extra lintel 80mm
- With mechanical opening system it increases 250 mm of bracket

Model **MIRZIP® MARKET** AUTO-TRACKING



MirZip® Market AUTO-TRACKING.

NEW



Detail
LED lighting.

anodized with a reduced footprint and with fixing, tightness and electrical ins-tallations hidden inside the feet. It incorporates a speed variator to regulate the opening and closing of the curtain.

Engine

Compact geared motor for intensive use with circuit breakers integrated position.

Auto-tracking System

Designed for continuous use and self-healing, when the curtain takes a hit gets back on track on its own by a continuous guide system without rigid elements that works with a plastic zip-per located at the ends of the curtain. This system provides great savings in repairs.

Options

- Emergency opening by counterweight.
- Buttons and emergency stop integrated in the foot of the door.
- **NEW:** possibility of incorporating signs, posters informative or luminous LED logos on the front and interior cover from the foot of the door.
- **NEW:** option to illuminate the entire contour of the door with light leds

Security access

The door integrates an infrared curtain up to 2.5 meters high as security of passage, which detects any object, even those of small size, preventing the lowering of the door or raising it again if it had already started to go down. Avoid physical contact with the door.

Performance of the air

Wind resistance as EN 12424: up to class 2. Optional class 3.

Dimensions

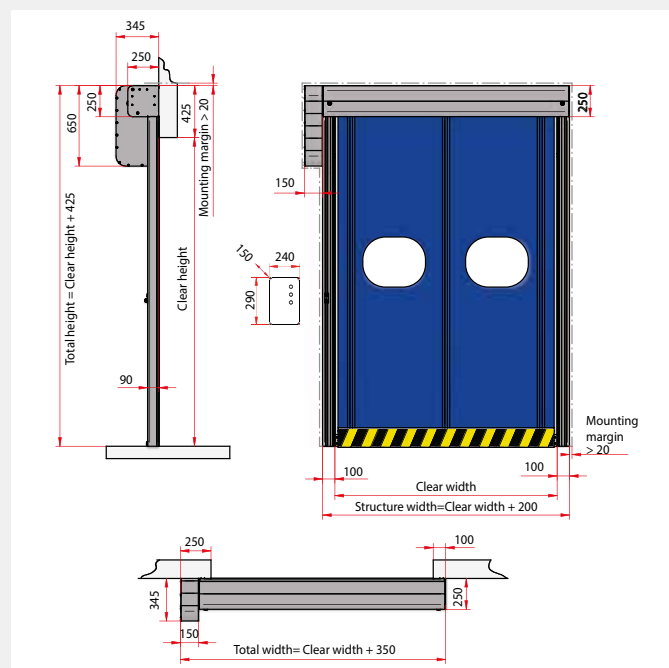
Maximum measurements 4,000 x 4,500mm.

The **Mirzip Market** door is a fast self-tracking door designed for medium-sized interior accesses in warehouses or restricted areas. It has an aesthetic and elegant design with little occupancy on the sides, LED light signaling and finishes in high quality aluminium.

Structure

Mirzip Market has a simple assembly self-supporting structure and fast. It is manufactured with aluminum profiles with a lacquered finish in white, matt natural anodized aluminum or alumi-num matt black

Installation measurements MirZip® Market (in mm.)



Mirzip® Market with isolated canvases.



Mirzip® Market with engine and drum cover.

Model **MIRZIP®** AUTO-TRACKING



MirZip® for logistic warehouse access.



MirZip® outdoor production plant access.

MirZip® is the fast self-tracking door designed for both medium sized interior and exterior accesses and loads of moderate wind.

The curtain has a material zipper at its ends plastic that circulates through high resistance poly-ethylene guides and sliding, achieving a continuous guide System without rigid elements. When the curtain receives some impact, the rack comes out of the outside of the guide and goes back on track during the descent.

MirZip® is manufactured with an aluminum and steel profile galvanized, optionally in AISI 304 stainless steel. In addition, It includes a mechanism with a frequency variator that allows regulate opening and closing speeds and ramps acceleration and deceleration. **MirZip®** has been designed for an intensive use and a long service life.

Options

- RAL painted finish
- Transparent PVC peepholes
- Engine guard
- Emergency opening system through UPS or system mechanic.

Maximum dimensions: 4,500 x 5,000 mm.

Wind resistance: Class 2 (auto-tracking model) / Class 3 (non-auto-tracking model)



MirZip® in logistic loading bay.



MirZip® with Mirtherm rollershutter door.

HIGH SPEED DOORS

INSTANT
PASS

GRAND
PASS

INSTANT
ROLL

HERMETIC
ROLL/BALL

INSTANT
PROTECT

EASY ROLL

MIRFLEX

MIRZIP

GENERAL
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IMPLE-
MENTED
PROJECTS



MirZip® with stainless structure.

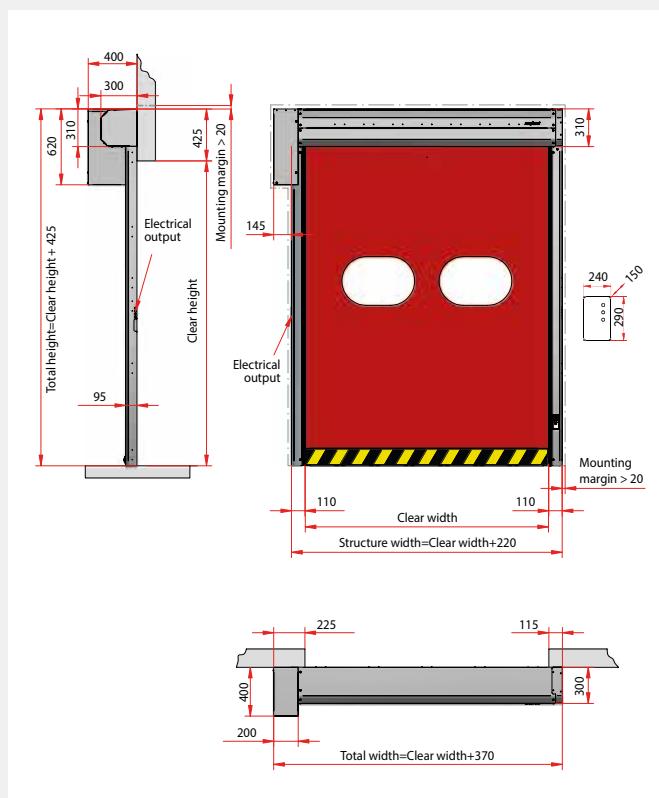


MirZip® doors in milk industry.



MirZip® and sliding fire resistant door combination.

Installation measurements MirZip® (in mm.)



MirZip® in mechanical workshop.



MirZip® in food industry.

CANVAS FEATURES AND OPTIONS

The base material is a plastic canvas with high resistance to wear and discoloration. On a poly-ester fabric, a PVC compound tinted to achieve extreme tenacity to breakage and tearing.

In its internal part, the sheaths that will serve as support for the appropriate reinforcements for each type of door are welded transversally, they will provide the rigidity and resistance necessary to withstand the air currents that the sash will receive.

Optionally, they can be equipped with 1 mm thick transparent PVC vision windows, a material resistant to solar radiation thanks to an integrated UV filter. The welds that join them to the canvas are made using adapted molds and by high frequency.



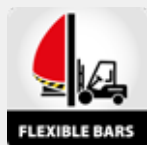
Tape guides and staples polyamide lock to avoid wear and noise. For stackable models.



Tape guides and staples polyamide lock to avoid wear and noise. For stackable models.

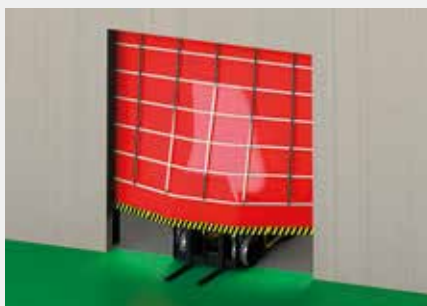


Yellow plinth detail and black and red ribbon security. For stackable models.



FLEX-BARS SYSTEM

The **Sistema Flex-Bars** for high-speed stacking or rolling doors, consists of a series of bars made of fiberglass and polyester, distributed along the door canvas. They deform without breaking due to impact or exerting force on them, thus increasing the useful life of the product, and avoiding repair or replacement of the bars due to an impact. Thanks to this system the required wind resistance is achieved, it gives the canvas to the right consistency and makes it easy to pick up the canvas when open the door.



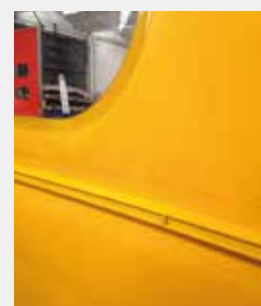
Strong, lightweight bars flexible to absorb impacts. For stackable models.

OPTION OF REPLACEABLE PANEL LIGHT FOR STACKABLE DOORS

Option of canvas made with a system of replaceable horizontal panel lights, which allows to replace only the peepholes in case of impact or damage, so saving significant costs.



Flexible bars detail.



CANVAS MODELS AND COLORS (RAL COLORS APPROXIMATE)

Standard canvas for high-speed doors. 1100 dtex polyester fabric impregnated with PVC and lacquered on both sides. 950gsm | 420/380 daN/5 cm DIN 53354 | 70/55 daN 7% ISO 4674.

Rollershutter doors (950 gr.)



M2

RAL 1003  Signal yellow

RAL 3002  Carmine red

RAL 5005  Signal blues

RAL 6026  Opal green

RAL 7016  Anthracite grey

RAL 7040  Window grey

RAL 9003  Signal white


M3

RAL 1014  Ivory

RAL 2002  Vermilion

RAL 2004  Pure orange

RAL 8016  mahogany

RAL 9005  Black

RAL 9006  Aluminum grey

Stackable doors (extremely flexible)



M2

RAL 1003  Signal yellow

RAL 3002  Carmine red

RAL 5005  Signal blues

RAL 7040  Window grey

RAL 9003  Signal white

Special canvas for Hermetic Roll and Instant Protect doors



- Double-layer polyester fabric impregnated with PVC and lacquered on both sides. Spoiled twist and lateral stiffness. FDA approved for contact with food items.
- 2mm thickness. • Grammage: Orange Canvas E 8/2 V1/V1 – 2.4 kg/m2



Special canvas for Hermetic Ball



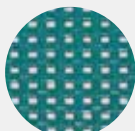
- Double-layer polyester fabric impregnated with Flexam PVC and lacquered in white on both sides. FDA approved for contact with food items.
- Flame retardant: class B2. • Thickness: 2,10 mm. • Weight: 2,30 kg/m2

White 

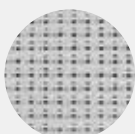
Perforated canvas

1100 dtex polyester fabric impregnated with PVC. There are two finishes:

PERFORATED
Green/Blue
2x2 mm. (aprox)



MOSQUITO NET
white/Hole
1x1 mm. (aprox)



Isolated canvas

1100 dtex polyester fabric impregnated with PVC. There are two finishes:

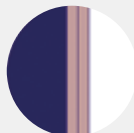
FOAMED
CANVAS



DOUBLE CANVAS
with thermal
and acoustic
insulation

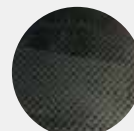


DOUBLE CANVAS
Vertical door
for freezers
with negative
temperature



Canvas for ATEX door

ANITSTATIC
CANVAS



PERSONALIZE YOUR HIGH-SPEED DOOR CANVAS

Have you thought about using your high-speed door for an advertising purpose or to promote your brand?

At **Angel Mir®** we manufacture **100% customized high-speed doors** in each project to always satisfy all needs of our clients, and we offer the possibility of personalizing the high-speed canvas door by printing a nice picture or the company logo.

A screen-printed canvas adds an exceptional finish to the door quickly, allowing it to be elegantly integrated into a commercial or sales area, such as access to restricted areas or super-market warehouses, department stores or other shops. For the serigraphy

of the canvas, we have the technology cutting-edge in printing and cutting that give us a total guarantee of quality. The models on which screen printing can be performed the complete canvas are those for high-speed roll-up doors and doors fast self-healing. Stackable high-speed doors can carry small silkscreens like a logo.

The serigraphy of the canvas does not affect the operation of the door.



Instant Pass® BASIC in parking.



Mirflex® ECO with screen printed logo.



Instant Roll® ECO in supermarket.



Screen printed door in food industry.



Mirflex® ECO in supermarket.



Instant Roll® ECO in supermarket.



Instant Roll® in mall.



Instant Roll® in store.



Instant Roll® in store.

OPENING SYSTEMS

Angel Mir® offers its customers different options of opening systems for high-speed doors, all of them safe, with a discreet and versatile design to provide a fluid and fast step.

It is worth mentioning those systems that do not require any physical contact to open the door and, therefore, guarantee a greater hygiene for operators as well as better performance.

Opening systems are essential and choosing the right model is crucial to achieve optimal operation of the door.

1.
Magnetic
detector



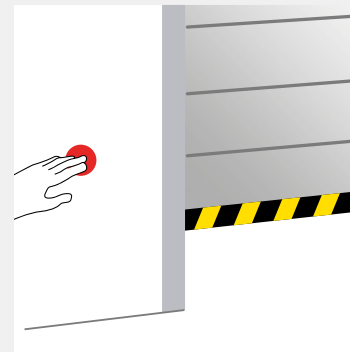
2.
Pull cord
or wireless



3.
Radar STD
or dual radar
aperture technology
security



4.
Wired push button
or push button
wireless



5.
Remote
control



6.
Photocell barrier



7.
Mirwave
or contactless
proximity switch



8.
Mirtop
or fixed point sensor



High-speed door by sector



Aeronautics



Agri-food



Industry



Lab



Rail and maritime logistics



Meat



Waste plant



Logistics



Supermarket



Automotive workshop



Explosive zones



HIGH SPEED DOORS

INSTANT
PASS

GRAND
PASS

INSTANT
ROLL

HERMETIC
ROLL/BALL

INSTANT
PROTECT

EASY ROLL

MIRFLEX

MIRZIP

GENERAL
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& APPLICATIONS

IMPLE-
MENTED
PROJECTS

HIGH-SPEED DOOR BY SECTOR



Instant Pass® ECO with air curtain and sliding fire door Corfire.



Instant Roll® ECO.



Instant Roll® with air curtain.



Mirflex® ECO in food industry.



Instant Pass® with printed canvas in theme park.



Instant Pass® in repair workshop.

HIGH-SPEED DOOR BY SECTOR



Atex speed door.



Pedestrian speed door.



Speed door in industry.



Speed door with bridge crane.



Speed door with bridge crane.



Speed door combined with sectional door.

HIGH SPEED DOORS

INSTANT
PASS

GRAND
PASS

INSTANT
ROLL

HERMETIC
ROLL/BALL

INSTANT
PROTECT

EASY ROLL

MIRFLEX

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GENERAL
SPECIFICATIONS
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IMPLE-
MENTED
PROJECTS

HIGH-SPEED DOOR BY SECTOR



Speed door in loading bay.



Speed door in car wash.



Speed door in car wash.



Speed door in water treatment plant.



Speed door in car parking access.



Perforated speed door for ventilation.

HIGH-SPEED DOOR BY SECTOR



Speed door in loading bay.



Speed door in silos combined with AF shelter.



MirZip® combined with sectional door.



MirZip® in food industry.



Easy Roll® INOX speed door.



Instant Roll® ECO in supermarket.

CLOSURES



Speed door with lateral closure and pedestrian door.



Outside speed door with lateral closure.



Speed door with lateral pedestrian door.



Speed door with closure and lateral pedestrian door.



Speed door with lateral pedestrian door.



Speed door with lateral closure and pedestrian door.

CLOSURES



Speed door with swing closing.



Outside speed door with lateral closure and pedestrian door.



Speed door with closure in loading bay.



Outside speed door with cover.



Speed door combined with sectional door con union closure.

COMBINED WITH EXISTING DOORS



Angel Mir® has solutions for the installation of high speed doors in combination with doors already installed. Utilizing the existing door, by means of walls, recesses and adjustment fittings between both.



Speed door combined with sliding door.



Speed door combined with fire door.



Speed door combined with sectional door.



Speed door combined with sectional door.



Speed door in cabin.



Speed door with sectional door and roller shutter door.



Speed door combined with sectional door.

IMPLEMENTED PROJECTS



Instant Roll® door with see-through canvas.



Hermetic Roll® door.



Instant Pass® door with ATEX certification.



Instant Pass® BASIC door.



Mirflex® ECO AUTO-TRACKING door.



Instant Pass® door.

IMPLEMENTED PROJECTS



Instant Pass® ECO door.



Instant Roll® BASIC door.



Instant Pass® BASIC door.



Mirflex® ECO INOX PLUS AUTO-TRACKING door.



Instant Pass® door with counterweight.



Instant Roll® ECO door.

HIGH SPEED DOORS

INSTANT
PASS

GRAND
PASS

INSTANT
ROLL

HERMETIC
ROLL/BALL

INSTANT
PROTECT

EASY ROLL

MIRFLEX

MIRZIP

GENERAL
SPECIFICATIONS
& APPLICATIONS

IMPLE-
MENTED
PROJECTS

IMPLEMENTED PROJECTS



Instant Roll® ECO door.



Instant Pass® ECO door.



Instant Pass® ISO door.



MirZip Market® door with double canvas and protection gantry.



Mirflex® ECO AUTO-TRACKING door.



Instant Pass® door.

For further information, please consult our detailed product catalogues:



GENERAL CATALOGUE



LOADING BAY
EQUIPMENT



HIGH SPEED DOORS



SECTIONAL DOORS



ROLLER SHUTTER
DOORS



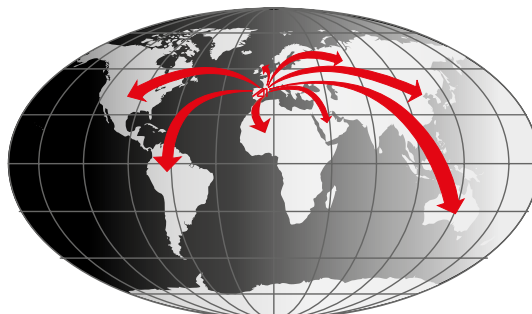
FIRE RESISTANT
DOORS



**FÁBRICA
PORBISA**
PORTES
BISBAL, S.L.



We are present in more than 50 countries
EUROPE, AFRICA, LATIN AMERICA, MIDDLE EAST, ASIA



BARCELONA (Spain)
Tel.: (+34) 972 640 620
Fax: (+34) 972 642 451

info@angelmir.com
www.angelmir.com



angelmirporbisa



@angelmirporbisa



angelmirporbisa



angelmirporbisa



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