

PRODUCTS CATALOG



Automatic speed Doors
Cold Storage Speed Doors
Dock Doors
Dock Levelers

ABOUT RAYFLEX

We have been operating for 35+ years in the market and are a reference in terms of leading-edge technology for Speed Doors and cargo docks in Brazil and Latin America.

We monitor the moving conditions of our customers to develop and offer the best solutions, while investing in quality, technology and innovations to provide efficiency and safety to our partners in their most diversified productions.



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RP SPEED DOOR

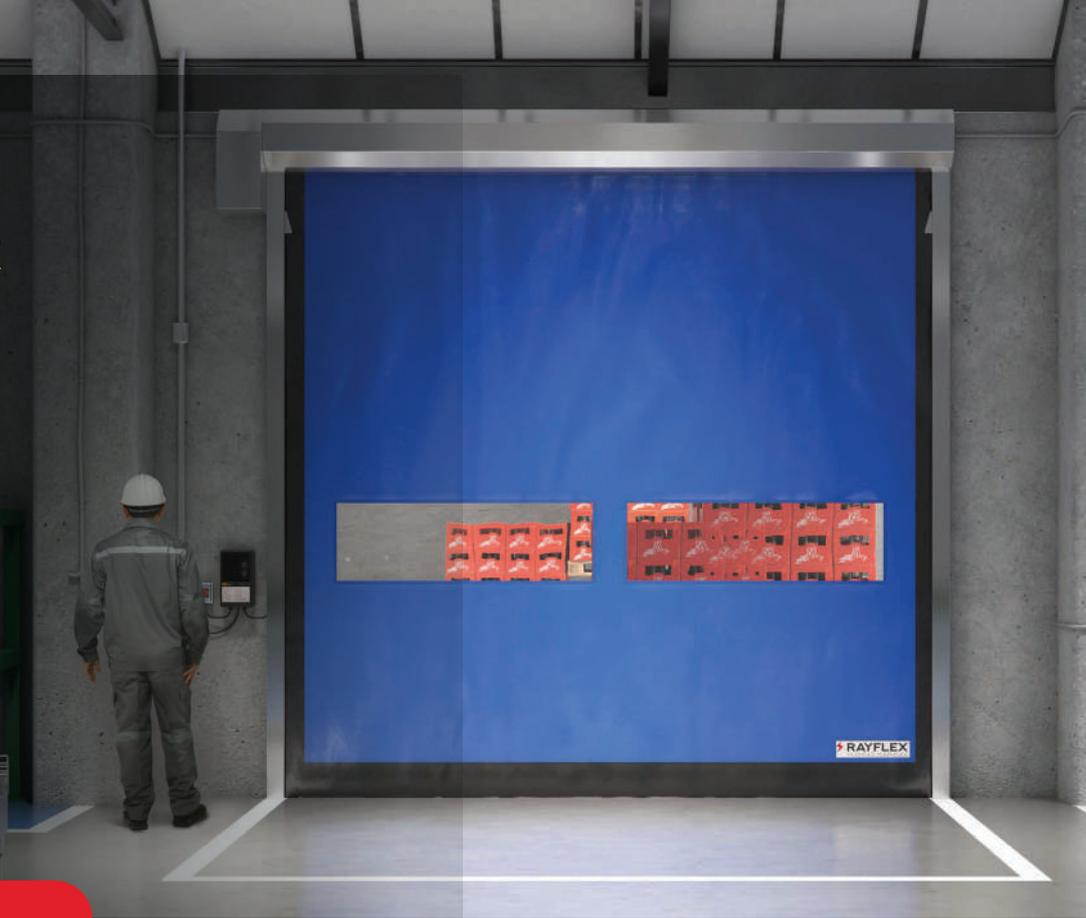
The real self-repairable door of the Brazilian market.

Developed for indoor applications at places with intense traffic of people and vehicles.

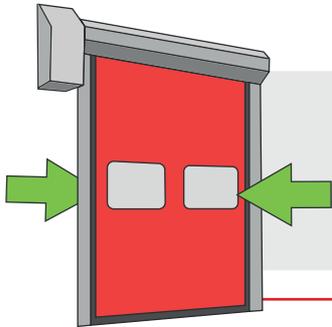
Facilitates to the utmost the traffic flow, providing more dynamic, safer operation, with lower maintenance.



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COMPONENTS COVERED WITH ORIGINAL WARRANTY, MEETING THE STRICTEST INTERNATIONAL STANDARDS: TUV, UL, CE, EN ISO.

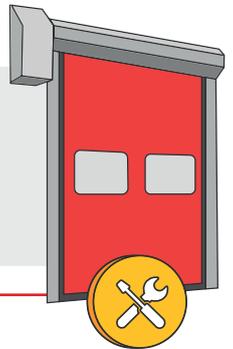


OPERATIONAL GAINS

With automatic drive, fast opening and closing, it assures the place is always closed, providing tightness against contaminant penetration and assisting in temperature control, contributing for good manufacturing practices.

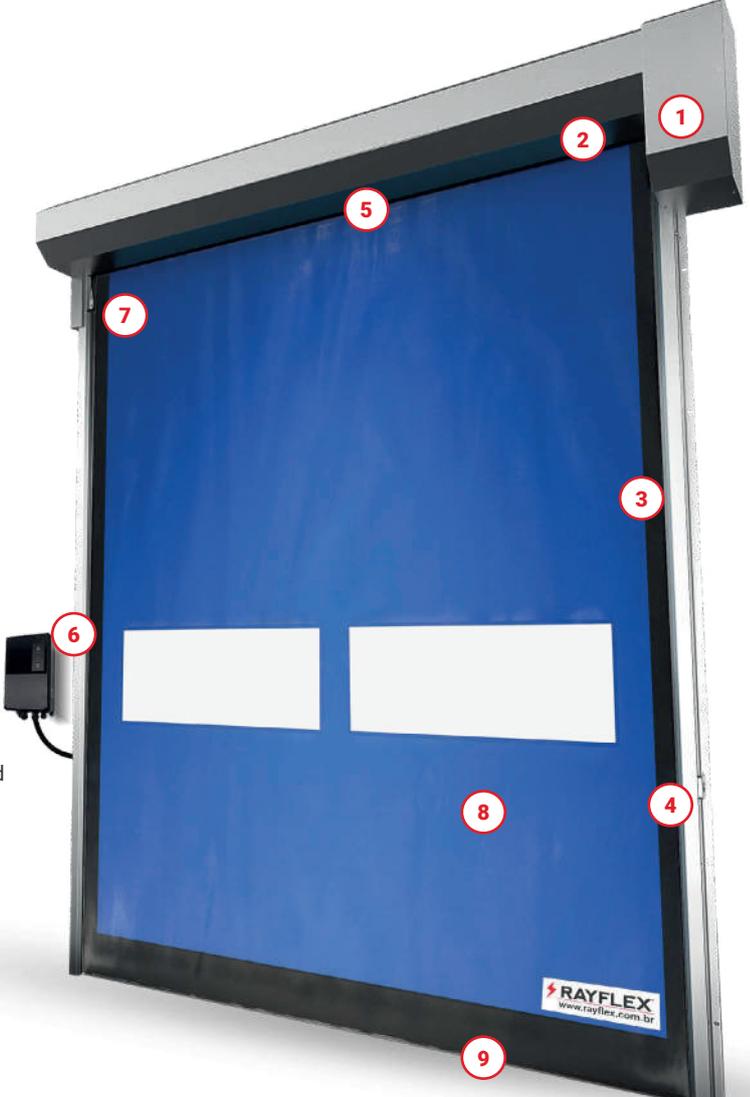
LOW MAINTENANCE

Totally free of horizontal metal bars, it does not dent after accidental impacts from carts and forklifts against the door's canvas; the blanket releases from the rail and returns automatically without any human intervention, thus reestablishing its original shape.



DOOR OPENING TRIGGERS
Rayflex offers several door opening and closing control options. Opening and closing the door automatically provides time and power savings, in addition to productivity gains. See the triggers available in page 30.

FEATURES & BENEFITS

- 
- HIGH-EFFICIENCY MOTOR WITH UNLIMITED OPENING CYCLES**

Developed for intense unlimited daily opening and closing operations.
 - POSITIONING SYSTEM BY ENCODER**

Higher precision in door opening and closing, with its own battery, and does not lose reference.
 - HIGH OPENING / CLOSING SPEED**

Shortens the door open time, reducing the ingress of contaminants and assisting in temperature conservation.
 - BUILT-IN SAFETY SENSORS**

Photocells that invert the door lowering motion in case any hindrance is found during its closing. They are installed embedded into the guides and are protected against hits.
 - TOP REVERSION SENSOR**

Identifies objects stopped under the door and inverts its motion, reopening the door and preventing damages to the products and other company assets.
 - CONTROL PANEL WITH DEDICATED PLC**

HMI system with display to monitor the door operation.
 - REPAIRABLE IN CASE OF COLLISIONS IN BOTH DIRECTIONS**

The door returns to the side guides after accidental collisions of carts and forklifts, thus preventing operation stops.
 - CANVAS WITHOUT RIGID ELEMENTS**

Free of horizontal metal bars in the canvas, providing greater safety to users and reducing maintenance in case of accidental collisions.
 - TIGHTNESS AROUND THE ENTIRE PERIMETER**

Exclusive Rayflex system; the canvas slides smoothly on self-lubricated guides, enabling greater tightness of side guides. Provided with bottom bag for seating on the floor.



CERTIFICATIONS

Our products are protected by patents and submitted to strict quality tests; they are also certified by the major national and international inspection bodies.



DURABILITY

All the raw materials used in the development of our equipment have been mold-pressed and produced to support precisely the functions performed, thus providing higher strength and durability to the assembly, as we value the quality and durability of our equipment. Compact equipment, easy to install in small spaces.

Products protected by patents. Technical specifications can be changed without notice. Blanket colors may exhibit tone differences due to the printing process. Images for illustration purposes only, reproduction without authorization is forbidden.

RP AL 01 SPEED DOOR

The most durable door in the market, designed for use in places with high traffic, without limiting the number of daily opening operations.

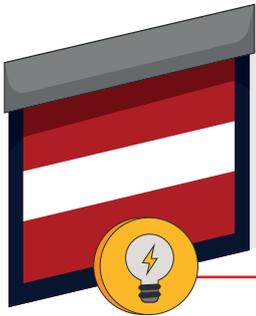
The plain side guides (continuous, teeth-free) do not seize and fit fully in the side shape, resulting in perfect tightness, in addition to provide silent and smooth operation, with lower maintenance.



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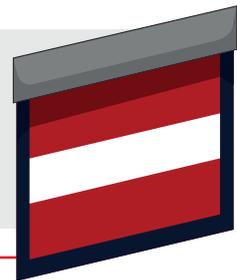


COST REDUCTION

The tightness system assists the preservation of treated air inside the clean room, reducing wear in the HVAC system and saving power. With less air exchanges, the maintenance of filters is also reduced, saving costs.

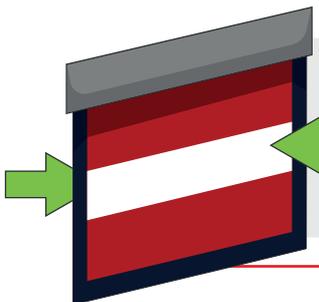
SANITARY BARRIER

The continuous guide system (free of teeth or zipper) provides isolation against ingress of contaminants inside the environment, thus contributing to control particulates, according to the room classification.



AMBIENT PRESSURE CONTROL

They are designed to withstand pressures up to 300 Pa, in addition to enable interlocking in sluice system.



DOOR OPENING TRIGGERS
Rayflex offers several door opening and closing control options. Opening and closing the door automatically provides time and power savings, in addition to productivity gains. See the triggers available in page 30.

FEATURES & BENEFITS

1 HIGH-EFFICIENCY MOTOR WITH UNLIMITED OPENING CYCLES

Developed for intense unlimited daily opening and closing operations.

2 POSITIONING SYSTEM BY ENCODER

Higher precision in door opening and closing, with its own battery, and does not lose reference.

3 HIGH OPENING / CLOSING SPEED

Shortens the door open time, reducing the ingress of contaminants and assisting in temperature conservation.

4 BUILT-IN SAFETY SENSORS

Photocells that invert the door lowering motion in case any hindrance is found during its closing. They are installed embedded into the guides and are protected against hits.

5 TOP REVERSION SENSOR

Identifies objects stopped under the door and inverts its motion, reopening the door and preventing damages to the products and other company assets.

6 CONTROL PANEL WITH DEDICATED PLC

HMI system with display to monitor the door operation.

7 REPAIRABLE IN CASE OF COLLISIONS IN BOTH DIRECTIONS

The door returns to the side guides after accidental collisions of carts and forklifts, thus preventing operation stops.

8 CANVAS WITHOUT RIGID ELEMENTS

Free of horizontal metal bars in the canvas, providing greater safety to users and reducing maintenance in case of accidental collisions.

9 TIGHTNESS AROUND THE ENTIRE PERIMETER

Exclusive Rayflex system; the canvas slides smoothly on self-lubricated guides, enabling greater tightness of side guides. Provided with bottom bag for seating on the floor.

10 COMPACT SHAPE

The most compact shapes in the market, requiring small space for installation, and less vulnerable to collisions.

11 RESISTANT TO PRESSURES

Developed for application in sites with pressure up to 300 Pa.



CERTIFICATIONS

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DURABILITY

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RP SL 01

SPEED DOOR

Speed Door for Clean Rooms in the Australian market.

Speed doors are used in clean rooms, also known as ISO rooms, for their resistance to high positive pressure, thus promoting total isolation of the room. They are a balanced tightness system that allows for a long life span of the door.

They offer a shorter closing time for the door, thus enabling less air exchanges and less energy consumption. If you are looking for a door with a long life span for your clean room,



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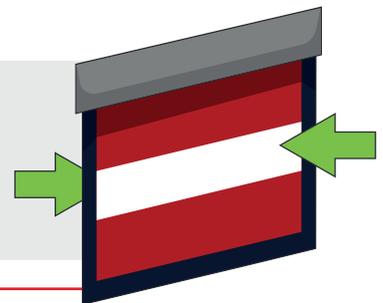


SANITARY BARRIER

The continuous guide system (free of teeth or zipper) provides isolation against ingress of contaminants inside the environment, thus contributing to control particulates, according to the room classification.

AMBIENT PRESSURE CONTROL

They are designed to withstand pressures up to 300 Pa, in addition to enable interlocking in sluice system.



DOOR OPENING TRIGGERS

Rayflex offers several door opening and closing control options. Opening and closing the door automatically provides time and power savings, in addition to productivity gains. See the triggers available in page 30.

FEATURES & BENEFITS

1 HIGH-EFFICIENCY MOTOR UNLIMITED OPENING CYCLES

Developed for intense operations, unlimited daily opening and closing operations at speeds up to 2.4 m/s.

2 BUILT-IN MOTOR WITH HYGIENIC DESIGN

The unique built-in motor makes the whole door assembly more compact and versatile for installation in areas with reduced spaces. In addition, it reduces the number of dust buildup points, combined with fully-rounded corners, and free of screws to make cleaning easier. Columns in anodized aluminum.

3 POSITIONING SYSTEM BY ENCODER

Higher precision in door opening and closing, with its own battery, and does not lose reference.

4 HIGH OPENING / CLOSING SPEED

Shortens the door open time, reducing the ingress of contaminants and assisting in temperature conservation.

5 BUILT-IN SAFETY SENSORS

Photocells that invert the door lowering motion in case any hindrance is found during its closing. They are installed embedded into the guides and are protected against hits.

6 TOP REVERSION SENSOR

Identifies objects stopped under the door and inverts its motion, reopening the door and preventing damages to the products and other company assets.

7 CONTROL PANEL WITH DEDICATED PLC

Provided with series frequency inverter. HMI system with display to monitor the door operation.

8 REPAIRABLE IN CASE OF COLLISIONS IN BOTH DIRECTIONS

The door returns to the side guides after accidental collisions of carts and forklifts, thus preventing operation stops.

9 CANVAS WITHOUT RIGID ELEMENTS

Free of horizontal metal bars in the canvas, providing greater safety to users and reducing maintenance in case of accidental collisions.

10 TIGHTNESS AROUND THE ENTIRE PERIMETER

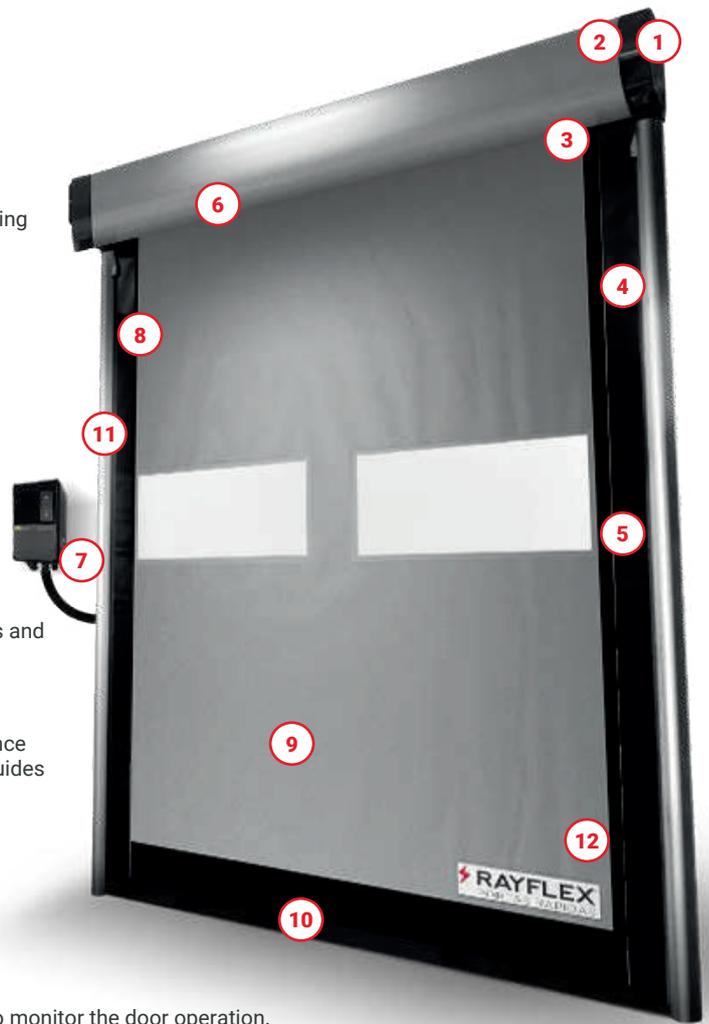
Exclusive Rayflex system; the canvas slides smoothly on self-lubricated guides, enabling greater tightness of side guides. Provided with bottom bag for seating on the floor.

11 COMPACT SHAPE

The most compact shapes in the market, requiring small space for installation, and less vulnerable to collisions.

12 RESISTANT TO PRESSURES

Developed for application in sites with pressure up to 300 Pa.



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DURABILITY

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PRODUCT LAUNCH

EMERGENCY RP

SPEED DOOR

Exclusive Rayflex system. 2-in-1 Speed Door.

Designed for application at sites with tightness and intense flow passage requirements, it also provides an emergency exit compliant with the safety requirements.



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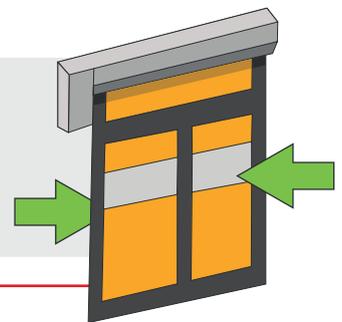


THE ONLY ONE IN THE MARKET WITH INTEGRATED EMERGENCY EXIT

The flexible PVC canvas is provided with ingenious T-shaped cut in the central part. When a person pushes the release points indicated the door canvas splits into two parts and lets a free passage for emergency exit. Once opened, the split parts can be easily closed by a zipper, restoring the door operability.

HIGHER PRODUCTIVITY AND OPERATIONAL GAINS

The fast opening and closing flow provides valuable gains of time in the daily operations. It assures tight environments, preventing the ingress of contaminants, dust, humidity and drafts into production areas, in addition to contribute with temperature control.



DOOR OPENING TRIGGERS

Rayflex offers several door opening and closing control options. Opening and closing the door automatically provides time and power savings, in addition to productivity gains. See the triggers available in page 30.

FEATURES & BENEFITS

1 HIGH-EFFICIENCY MOTOR WITH UNLIMITED OPENING CYCLES

Developed for intense unlimited daily opening and closing operations.

2 POSITIONING SYSTEM BY ABSOLUTE ENCODER

Higher precision in door opening and closing, with its own battery, and does not lose reference.

3 AUTOMATIC OPENING AND CLOSURE

Shortens the time with door open, in addition to be provided with timer for automatic closure, independent from human action.

4 BUILT-IN SAFETY SENSORS

Photocells that invert the door lowering motion in case any hindrance is found during its closing. They are installed embedded into the guides and are protected against hits.

5 TOP REVERSION SENSOR

Identifies objects stopped under the door and inverts its motion, reopening the door and preventing damages to the products and other company assets.

6 CONTROL PANEL WITH DEDICATED PLC

HMI system with display to monitor the door operation, developed exclusively for High-Speed Doors.

7 REPAIRABLE IN CASE OF COLLISIONS IN BOTH DIRECTIONS

The door returns automatically to the side guides after accidental collisions of carts and forklifts, thus preventing operation stops.

8 CANVAS WITHOUT RIGID ELEMENTS

Free of horizontal metal bars in the canvas, providing greater safety to users and reducing maintenance in case of accidental collisions. In addition to make door cleaning easier, reducing the points for dirt accumulation.

9 TIGHTNESS

Exclusive Rayflex system (zipper-free); the canvas slides smoothly without requiring lubrication and enabling tighter sides. Provided with bottom bag for seating on the floor.



CERTIFICATIONS

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DURABILITY

All the raw materials used in the development of our equipment have been mold-pressed and produced to support precisely the functions performed, thus providing higher strength and durability to the assembly, as we value the quality and durability of our equipment. Compact equipment, easy to install in small spaces.

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SAFETY WINDOW

Protection of operators is the most important solution for

Rayflex enables the window to be used in any way with the assembly line, for example, in testing booths, where the windows are customized according to the operation schedule.



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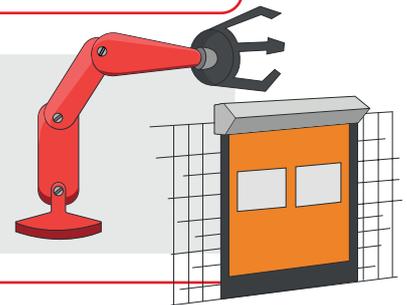


GREATER SAFETY

It increases the safety of operators when the machine is running, containing approaching risks, flying debris, unexpected motion of an automated machine, impact of rotary parts, among others.

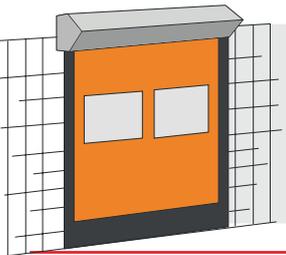
ADVANCED PROTECTION

The door integrated to the operational system of the machines eliminates human failure risks.



HIGHER PRODUCTIVITY

In addition to ensure safety, it actuates with higher precision and speed, protecting the site without impacting the operator's activities.



DOOR OPENING TRIGGERS

Rayflex offers several door opening and closing control options. Opening and closing the door automatically provides time and power savings, in addition to productivity gains. **See the triggers available in page 30.**

FEATURES & BENEFITS

1 SIGHT BANDS

They enable the operator to monitor the machine operation when the door is closed. In sites where welding operations occur, the sight band made of special material in green color protects the user against UV radiation.

2 COMPACT SIZE

One of the key features of the Safety Window is that it requires minimum space for installation in the area, thus enabling better use of the space for the production processes.

3 ANTI-INTRUSION SWITCH

Optionally, Class 4 safety switches can be installed on the bottom of the window pillars, thus further enhancing the system safety. If the equipment does not complete its total cycle until closure, the switches will not be actuated and will not transmit any signal to the robot for starting the operation.

4 INTEGRATED SYSTEM

The switches provide an anti-intrusion function, transmitting a signal to stop the robot immediately in case someone attempts to forcefully open it to break into the protected area.

5 ADJUSTMENT SHOES

Adjustment shoes assure easy alignment of the door, even on floor with minor irregularities, thus making its installation easier.



Special Projects

Your requirements are unique. We provide unique solutions to you. We visit your company to understand your production demands, in order to develop solutions and optimize the production process.

We understand your project, identify the options, develop the solution and indicate the best products for each installation.



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DURABILITY

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VECTORFLEX SPEED DOOR

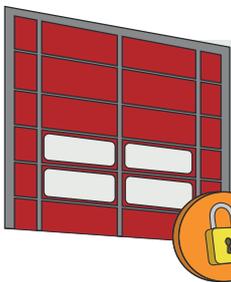
Developed for indoor and outdoor applications at large sites, with windy and bad weather conditions.

It provides effective isolation without impacting the operations flow at sites with intense traffic of people and vehicles.



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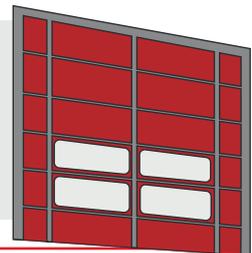


EFFECTIVE CLOSURE

It forms an isolation barrier between outdoor and indoor areas, in large spans, both in terms of width and height, usually at sites with traffic of forklifts and trucks.

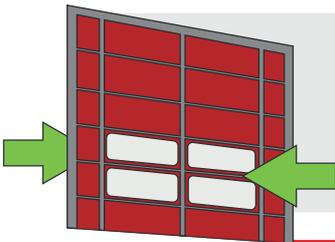
SANITARY BARRIER

It protects the environment against ingress of contaminants that may cause damages to the plant. It also protects the production chain, preserving the product quality. In addition, it is made of material that enables easy sanitation.



AUTOMATIC OPERATION

Automatic operation with timer independent from human action to close the door, thus shortening the time with door opened and reducing ingress of dirt in the environment.



DOOR OPENING TRIGGERS

Rayflex offers several door opening and closing control options. Opening and closing the door automatically provides time and power savings, in addition to productivity gains. See the triggers available in page 30.

FEATURES & BENEFITS

1 HIGH-EFFICIENCY MOTOR WITH UNLIMITED OPENING CYCLES

Developed for intense unlimited daily opening and closing operations.

2 POSITIONING SYSTEM BY ENCODER

Higher precision in door opening and closing, with its own battery, and does not lose reference.

3 AUTOMATIC OPERATION

Shortens the time with the environment open independent from human action to close the door, thus reducing ingress of dirt in the environment.

4 BUILT-IN SAFETY SENSORS

Photocells that invert the door lowering motion in case any hindrance is found during its closing. They are installed into the guides and are protected against hits.

5 CONTROL PANEL WITH DEDICATED PLC

HMI system with display to monitor the door operation.

6 CANVAS REINFORCEMENT

Horizontal tubes provide stability to the canvas, offering resistance against winds up to 60 km/h. For higher wind speeds, consult our technical area.

7 BOTTOM TIGHTNESS BAG

Provided with bottom bag for seating on the floor, preventing ingress of impurities under the door.



CERTIFICATIONS

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DURABILITY

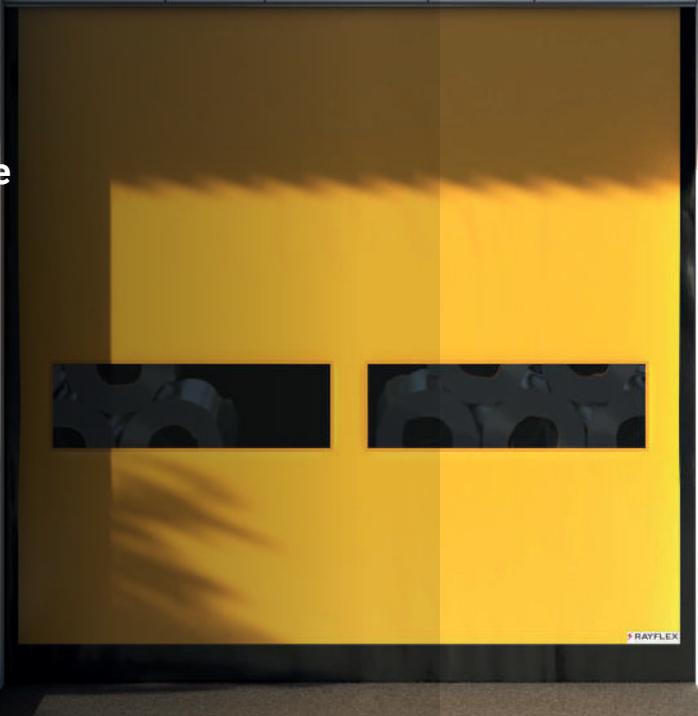
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VECTOR M2 SPEED DOOR

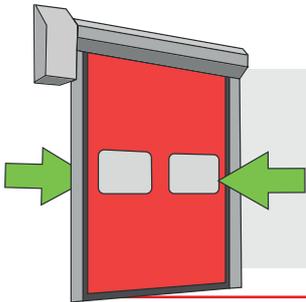
Developed for effective closure of large spans in outdoor environments under windy conditions.

The only solution that withstands wind action without using horizontal bars, making its canvas totally flexible and harmless to people, in addition to reduce damages to the door in case of accidental collisions of forklifts and carts against the canvas. It provides isolation of areas without impairing the passage flow, with automatic actuation, fast motions, effective opening and closing and use of space.



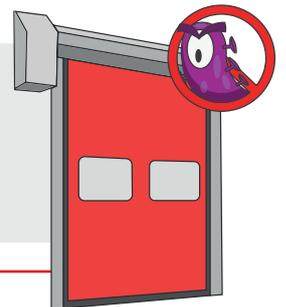
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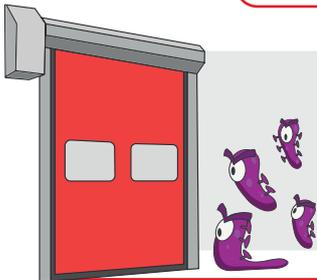
OPERATIONAL GAINS

It enables fast and intense traffic without downtimes to open the door, thus providing higher speed to the operations and the whole production chain.



ENVIRONMENT CLOSED FOR LONGER TIME

Automatic closure of the door, independent from human action, thus assuring product integrity and quality.



SANITARY BARRIER

It protects the environment against ingress of rain, dust and pests that may cause damages to the products, in addition to be made of materials easy to be sanitized.

DOOR OPENING TRIGGERS
Rayflex offers several door opening and closing control options. Opening and closing the door automatically provides time and power savings, in addition to productivity gains. See the triggers available in page 30.

FEATURES & BENEFITS

1 HIGH-EFFICIENCY MOTOR UNLIMITED OPENING CYCLES

Developed for intense unlimited daily opening and closing operations.

2 POSITIONING SYSTEM BY ENCODER

Higher precision in door opening and closing, with its own battery, and does not lose reference.

3 "PULL/PUSH" SYSTEM

With reduced spaces, the canvas is fastened on the side guides, which fit perfectly to the door pillars, maintaining the canvas stretched. Spring-type dampers located inside these side guides provide strength and traction in case of incidence of winds. The unique and exclusive RAYFLEX "pull/push" system operates by gears coupled to the door's motor, forcing the canvas closure in case of wind pressure.

4 HIGH OPENING/CLOSING SPEED

Shortens the door open time, reducing the ingress of contaminants and assisting in temperature conservation.

5 BUILT-IN SAFETY SENSORS

Photocells that invert the door lowering motion in case any hindrance is found during its closing. They are installed embedded into the guides and are protected against hits.

6 TOP REVERSION SENSOR

Identifies objects stopped under the door and inverts its motion, reopening the door and preventing damages to the products and other company assets.

7 CONTROL PANEL WITH DEDICATED PLC

HMI system with display to monitor the door operation.

8 REPAIRABLE IN CASE OF COLLISIONS IN BOTH DIRECTIONS

The door returns to the side guides after accidental collisions of carts and forklifts, thus preventing operation stops.

9 CANVAS WITHOUT RIGID ELEMENTS

Free of horizontal metal bars in the canvas, providing greater safety to users and reducing maintenance in case of accidental collisions. It offers resistance against winds up to 115 km/h; for higher speeds, consult our technical area.

10 TIGHTNESS AROUND THE ENTIRE PERIMETER

Exclusive RAYFLEX "pull/push" guide system enables tighter side guides. Provided with bottom bag for seating on the floor.



CERTIFICATIONS

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DURABILITY

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FRIGOISO / FRIGO + DOOR

Developed for application in cold chambers (chilled or frozen products) with high passage flow and temperatures down to $-30\text{ }^{\circ}\text{C}$.

It speeds the chamber entrance and exit process, thus ensuring less time with the door open, which prevents cold losses. By using its highly effective self-repair system, the door has the lowest maintenance cost in the market – being simply the ideal solution for your cold storage chamber.



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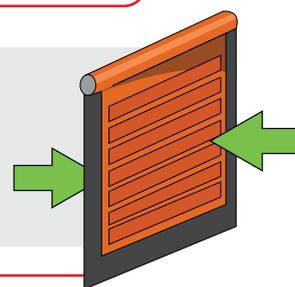


POWER EFFICIENCY

It forms an insulation barrier between areas, while enabling fast traffic between environments, thus minimizing temperature variations. Its excellent tightness and isothermal canvas reduce chilled air losses and save power.

AUTOMATIC OPERATION

Automatic operation with timer independent from human action to close the door, thus shortening the time with door opened.



OPERATIONAL SAFETY AND LOW MAINTENANCE

The defrost system + flexible canvas combination without metal bars for automatic repair after accidental collisions prevents the door inactivity and extends its lifetime. The 100% flexible canvas does not have metal bars, which makes the door harmless to operators and products.



DOOR OPENING TRIGGERS

Rayflex offers several door opening and closing control options. Opening and closing the door automatically provides time and power savings, in addition to productivity gains. See the triggers available in page 30.

FEATURES & BENEFITS

1 HIGH-EFFICIENCY MOTOR UNLIMITED OPENING CYCLES

Developed for intense unlimited daily opening and closing operations. Prepared for areas with negative temperatures.

2 POSITIONING SYSTEM BY ABSOLUTE ENCODER

Higher precision in door opening and closing, with its own battery, and does not lose reference.

3 HIGH OPENING/CLOSING SPEED

Shortens the time with door opened, thus reducing temperature losses and increasing power efficiency, in addition to providing higher speed in operation.

4 FREQUENCY INVERTER

Provides speed ramps with smooth starts/stops, thus extending the door's lifetime.

5 ISOTHERMAL CANVAS

Dual PVC layer with different insulation thicknesses, insulating core with low thermal coefficient, reduces heat exchanges between environments.

6 BUILT-IN SAFETY SENSORS

Photocells that invert the door lowering motion in case any hindrance is found during its closing. They are installed embedded into the guides and are protected against hits.

7 TOP REVERSION SENSOR

Identifies objects stopped under the door and inverts its motion, reopening the door and preventing damages to the products and other company assets.

8 CONTROL PANEL WITH DEDICATED PLC

Provided with series frequency inverter. HMI system with display to monitor the door operation. Prepared for integration with other pieces of equipment and smart storage systems (Industry 4.0).

9 DEFROST SYSTEM

Prevents ice from accumulating on the door sides.

10 REPAIRABLE IN CASE OF COLLISIONS IN BOTH DIRECTIONS

The door returns to the side guides after accidental collisions of carts and forklifts, thus preventing operation stops.

11 CANVAS WITHOUT RIGID ELEMENTS

Free of horizontal metal bars in the canvas, providing greater safety to users and reducing maintenance in case of accidental collisions.

12 TIGHTNESS AROUND THE ENTIRE PERIMETER

Exclusive Rayflex system (zipper-free); the canvas slides smoothly without requiring lubrication and enabling tighter side guides. Provided with bottom bag for seating on the floor and top flap for tightness.



CERTIFICATIONS

Our products are protected by patents and submitted to strict quality tests; they are also certified by the major national and international inspection bodies.



DURABILITY

All the raw materials used in the development of our equipment have been mold-pressed and produced to support precisely the functions performed, thus providing higher strength and durability to the assembly, as we value the quality and durability of our equipment. Compact equipment, easy to install in small spaces.

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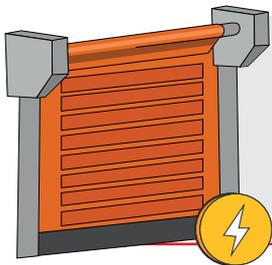
FRIGOMAX SPEED DOOR

Designed for applications in environments with high passage flow and subzero temperatures down to -30 °C (for lower temperatures, consult us).



LEARN MORE
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COMPONENTS COVERED WITH ORIGINAL WARRANTY, MEETING THE STRICTEST INTERNATIONAL STANDARDS: TUV, UL, CE, EN ISO.



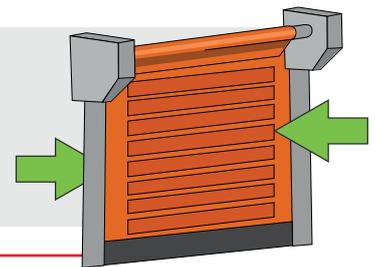
POWER EFFICIENCY

It forms an insulation barrier between areas, while enabling fast traffic between environments, thus minimizing temperature variations. Its excellent tightness and isothermal canvas reduce chilled air losses and save power.



AUTOMATIC OPERATION

Automatic operation with timer independent from human action to close the door, thus shortening the time with door opened.



OPERATIONAL SAFETY AND LOW MAINTENANCE

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ISOTHERMAL SECTIONAL DOOR

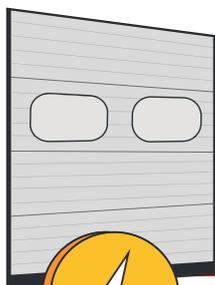
Developed to provide greater tightness and thermal insulation to the environments, combined with functionality, durability and safety for the operators.

Ideal for applications in industries, logistic centers and material shipment/receipt sites, it is available in the manual, motorized and automatic versions. The exclusive model is comprised by isothermal panels and sealing rubbers in its entire perimeter, providing greater tightness and temperature control, in addition to significant gains due to power savings.



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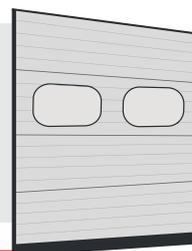
POWER SAVINGS

It is comprised by isothermal panels and sealing rubbers in its entire perimeter, helping to preserve the ambient climate control, resulting in power efficiency.



SANITARY BARRIER

Protects the environment against ingress of rain, dust and pests that may cause damages to the products.



USER SAFETY

Ergonomic and easy to use, it provides comfort and proper conditions to the collaborators.



DOOR OPENING TRIGGERS

Rayflex offers several door opening and closing control options. Opening and closing the door automatically provides time and power savings, in addition to productivity gains. See the triggers available in page 30.

FEATURES & BENEFITS

1 ISOTHERMAL PANELS

Panels with 40 mm thickness provided with internal thermal insulation, preventing transfer of heat inside the shed, and promoting power savings, also reducing the use of air conditioning and climate control devices. Epoxy finish for greater durability and resistance.

2 SAFETY

Panels with exclusive fittings that prevent finger crushing, spring break prevention device and anti-drop lock (optional).

3 OPERATION OPTIONS

Manual, chain, motorized via up/stop/down button, and automatic by sensors.

4 INTERNAL REINFORCEMENT ON THE PANELS

Internal reinforcement on the panels where hinges are fixed, preventing them from loosening with the door motion.

5 EFFICIENT TIGHTNESS

Sealing rubbers provide closure around the entire door perimeter, preventing the ingress of dirt and contamination in the environment.

6 SIGHT BAND OPTION

Sight bands made of polycarbonate with sealing rubber provide visibility of the external environment.



OPENING OPTIONS

1 VERTICAL 2 HIGH LIFT 3 STANDARD LIFT



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DOCKDOOR / DOCKISO DOOR

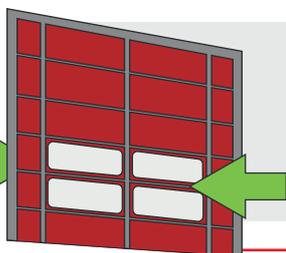
Developed for outdoor and indoor applications at sites with moderate opening / closing flow, resistant to winds and bad weather.

Provides effective isolation, it is safe for users and easy to operate.



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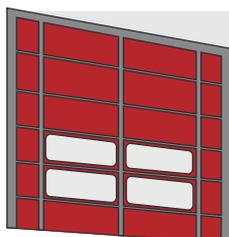
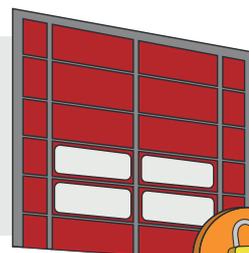


SANITARY BARRIER

It forms an isolation barrier between outdoor and indoor areas, especially in cargo dock areas, protecting the site against ingress of contaminants and dirt, contributing to a cleaner environment.

SAFE OPERATION

PVC canvas sheet; it is light and does not pose any risks or ergonomic problems to the operator.

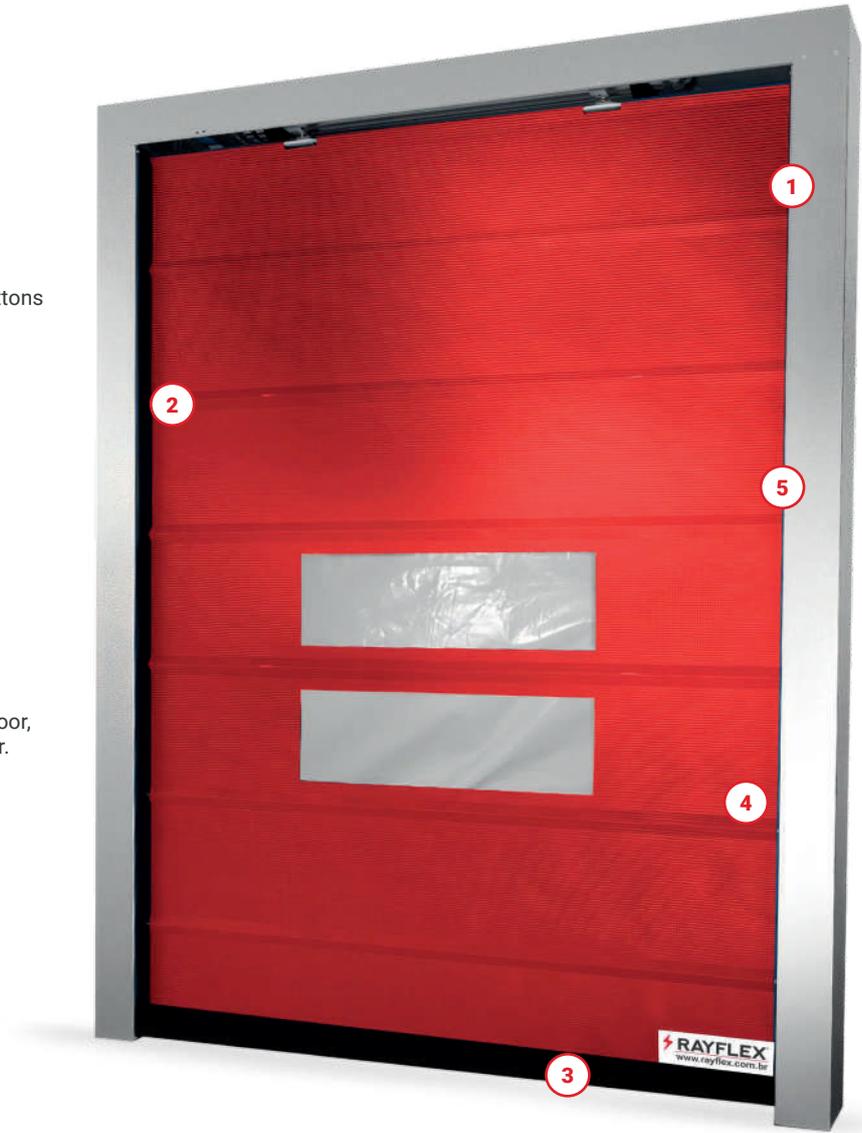


THERMAL INSULATION

Optionally, a thermal insulator can be inserted in the canvas, further increasing the insulation efficiency of docks with climate control.

FEATURES & BENEFITS

- 1 EASY TO OPERATE**
Opening and closure performed by 3-stage buttons (open / stop / close).
- 2 WIND RESISTANCE**
It is provided with embedded horizontal tubes into the canvas, providing stability and resistance to winds up to 60 km/h. For other wind speeds, consult our technical area.
- 3 BOTTOM TIGHTNESS BAG**
Provided with bottom bag for seating on the floor, preventing ingress of impurities under the door.
- 4 OPTIONAL THERMAL INSULATION**
Double vinyl layer with internal thermal insulation, increasing the efficiency in refrigerated areas (optional).
- 5 CHAIN FOR MANUAL OPERATION**
Chain coupled to the motor; enables manual operation of the door in case of power outage.



DRIVES

Button and remote control (series items).



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ELECTRIC-HYDRAULIC DOCK LEVELER

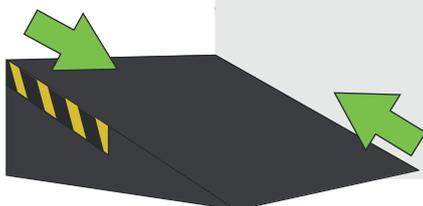
The perfect combination of speed, functionality and safety.

Developed to cover the span and compensate with precision the height difference between the body of the different truck types and the dock. Thus, the truck can be loaded or unloaded and the leveler will follow its horizontal motions.



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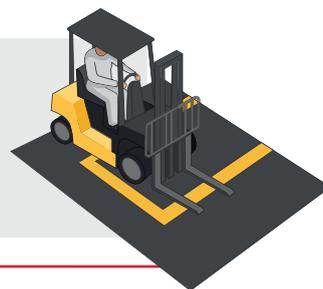


OPERATIONAL GAINS

The varied truck heights and dock areas make the leveler use inevitable. Levelers are the most practical and safe way to perform loading and unloading.

COST REDUCTION

Levelers enable that the pallet lifter and/or forklift enters and exits the truck, optimizing the loading time, in addition to better accommodate the cargo, optimizing the internal space of trucks and reducing the transport costs.



USER SAFETY

Ergonomic and easy to handle, it provides comfort and proper conditions for actuation by a professional in his (her) work environment.

FEATURES & BENEFITS

1 STRUCTURE

Formed by laminate and reinforced shapes, where the moving parts and hydraulic assembly are installed. It also enables housing and supporting the flap when the platform is in its rest position.

2 PLATFORM

Made of reinforced anti-slip plate.

3 ARTICULATED FLAP

Made of anti-slip floor plate with beveled end to be accommodated on the truck floor without forming a step, thus reducing impacts during the passage and preventing damages to the vehicle wheels (pallet lifter and/or forklift).

4 AUTOMATED OPERATION

It is provided with motorized hydraulic unit, driven by a single button on the control panel, simplifying the operation and saving physical efforts of the operator.

5 MECHANICAL BLOCKER

Mechanical bar for maintenance and cleaning under the platform.

6 ANTI-DROP VALVE

It prevents the leveler from moving down abruptly in case the truck leaves the dock with the platform supported.

7 FEET PROTECTION

The protection prevents the operator's foot from entering under the leveler upon operation.

8 SAFETY SOLENOID VALVE

Actuated by electric power to prevent the platform from moving down abruptly.



PROTECTION STRIKERS (OPTIONAL ACCESSORY)

Rubber structure that protects the dock system against vehicle shocks.



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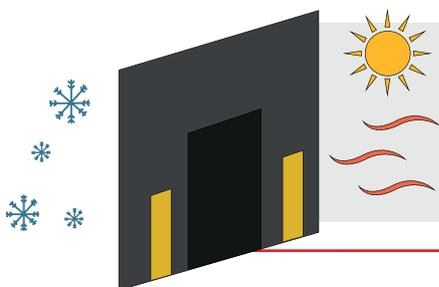
DOCK SHELTER

Ideal solution to prevent ingress of contaminants and assist in temperature control when the dock door is open.

It is extremely efficient in sealing the space between the truck rear part and the building wall, thus eliminating the gap that could allow the ingress of hot air in refrigerated environments, in addition to the entrance of bugs, birds, rain and other contaminants into the shed – during the loading and unloading process.



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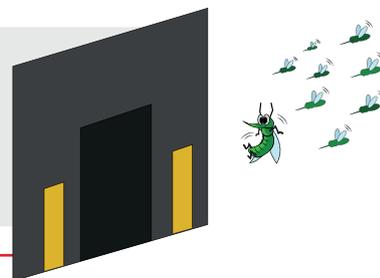


POWER EFFICIENCY

It prevents air exchange with the outdoor environment, thus minimizing entrance of heat intake and cold exit at sites with controlled temperature, such as warehouses with climate control and refrigerated, generating great power savings.

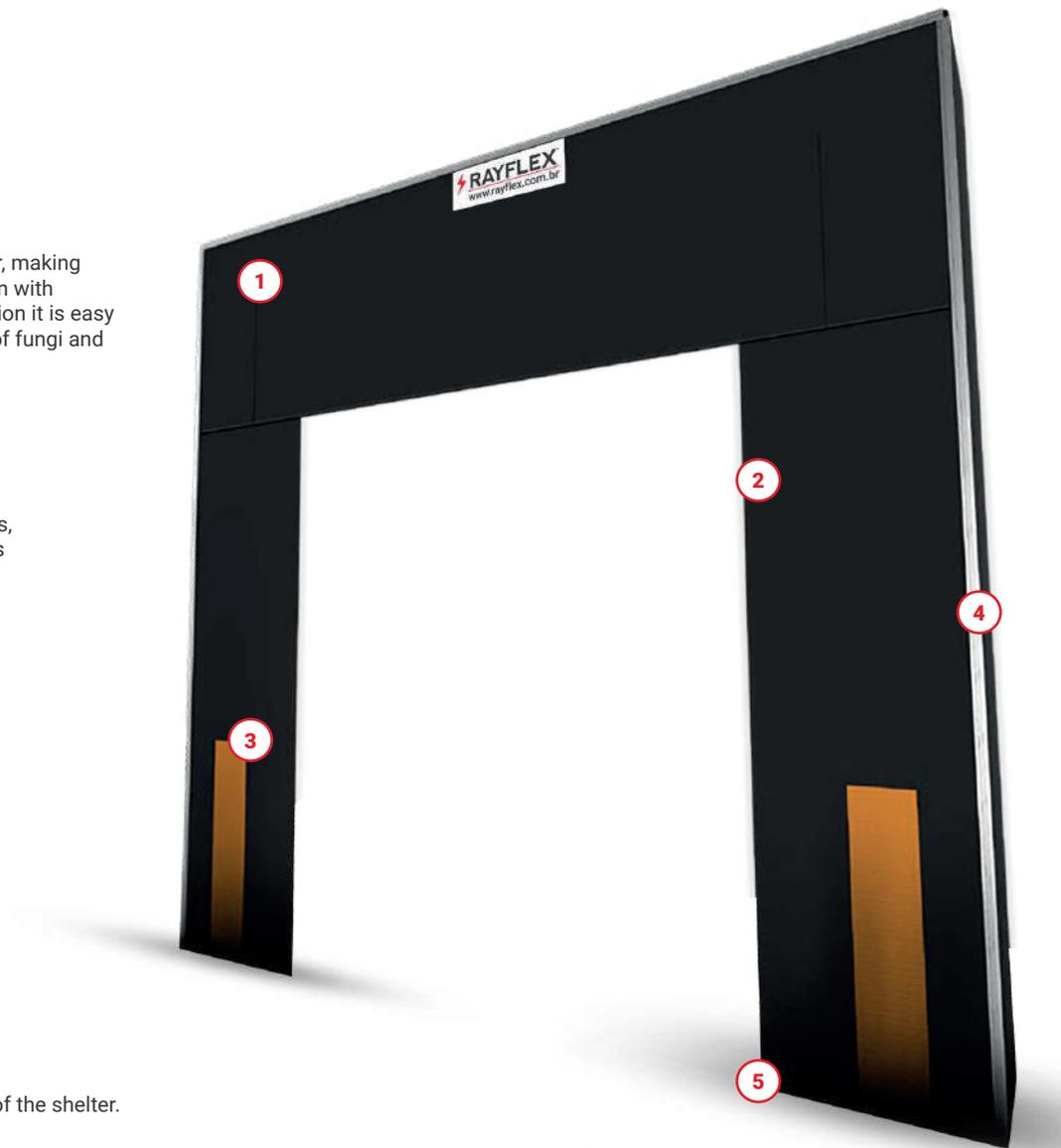
SANITARY BARRIER

Protects the shed environment against bad weather and contaminants, such as bugs, birds, dust and other dirt, which may cause damages to products, actuating directly for good manufacturing practices.



FEATURES & BENEFITS

- 1 REINFORCED MATERIAL**
PVC reinforced with inner polyester layer, making it more resistant to tear and deterioration with exposure to weather conditions, in addition it is easy to clean, thus preventing accumulation of fungi and bacteria.
- 2 RETRACTILE STRUCTURE**
Retractable structure totally made of aluminum, supported by articulated arms, capable of absorbing accidental impacts of vehicles in maneuvers, preserving the assembly.
- 3 SIGNALING STRIPS**
Side yellow strips, which guide the truck driver for correct positioning of the vehicle.
- 4 ALUMINUM STRUCTURE**
Provides greater resistance to corrosion, extending the equipment lifetime.
- 5 BSD**
Optional accessory for the bottom part of the shelter.



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TRIGGERS



BUTTONS

The mushroom type buttons for actuation are a mechanical device in charge of opening and closing the automatic door from a manual pulse. It is important that any door has buttons in both sides to facilitate the traffic of pedestrians.

NO TOUCH TRIGGER

No Touch trigger for actuation are devices to open and close the automatic door by approaching to the sensor, which is strongly recommended for clean rooms. It is important that any door has the sensors in both sides to facilitate the traffic of pedestrians. It is not indicated for negative temperatures.

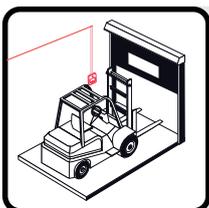


MOTION RADAR

Motion radar type actuator is a device in charge of opening and closing the automatic door, which function is opening with any type of motion, whether of vehicle, forklift or person, preventing possible accidents and speeding the operation. This device is not recommended for environments with high traffic in front of the door, as this may cause unnecessary openings and closures. It is not indicated for negative temperatures.

ACCESS CONTROL

Access control for automatic doors is a system programmed to identify, validate and authorize the access of persons to restricted places. This validation can be made by fingerprint, badge or password keypad. It is not indicated for negative temperatures.

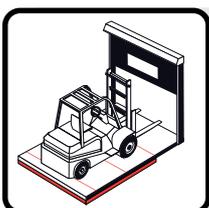


DOOR HANDLE

The door handle is a device hanged in front of the door, which can also be fastened to the shed's ceiling or on the wall by a support. Actuation is made by pulling a rope without requiring the operator to leave the forklift, thus optimizing the operation time. When this actuator is chosen, we recommend the provision of buttons, mushroom buttons or No Touch sensors for passage of pedestrians.

REMOTE CONTROL

The remote control is responsible of opening and closing the automatic door. This device operates by radio frequency, at distance, providing greater speed in the operation. When this actuator is chosen, we recommend the provision of buttons, mushroom buttons or No Touch sensor for passage of pedestrians.



INDUCTION LOOP

Induction loop is a sensor installed on the floor in front of the door, which detects metallic masses, such as forklifts, pallet lifters or carts. Thus, the door is actuated in this way, and not with the passage of pedestrians, optimizing the operation time. When this actuator is chosen, we recommend the provision of buttons, mushroom buttons or No Touch sensors for passage of pedestrians.

For other opening systems, consult us.

CONTROL PANEL

Exclusive for utilization in Speed Doors, Rayflex control panels are unique with this function.

They transmit and receive signals from other existing machines and equipment, enabling integration with the most diversified industrial systems.

Compact, providing easy diagnosis, they exhibit all the door functions on a display, which facilitates the equipment maintenance and adjustments. The information is on the panel cover.

They are provided with logical programming system and several outputs, enabling total intelligence of the device. They can be connected to the plant control center, Fire Department systems, UPS, among others. They are provided with their own encoder, with built-in battery, and are in charge of positioning the door. As an electronic device, they do not lose reference and reduce the equipment maintenance requirements.

Options

With 220 V single-phase frequency inverter

220 V / 380 V three-phase (440 V optional)



FUZ



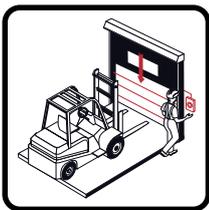
FUZ LGH



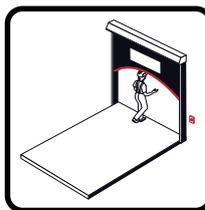
WU

SAFETY SYSTEMS

LIGHT CURTAIN



CORDLESS CONTACT BAG



SIGNALING



Light signaling mast



Flashing lights (Giroflex) optionally with audible signaling



Traffic light

For other safety systems, consult us.



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