



ROLLING SHUTTERS - GARAGE DOORS - AUTOMATIONS

# 2017 RESIDENTIAL SECTIONAL DOOR FEATURES & APPLICATIONS



ISSUED 2019.04.04





## STATISTICS

Since the first days of BIOROL S.A. we always try to do our best and deliver an excellent result. Door after door we try improve and learn more.

11418

PROJECTS COMPLETED

67643

DOORS & SHUTTERS MADE

270572

KILOMETERS OF METALSHEET  
PROCESSED

## CONTENTS

›	Reasons to choose a BIOROL Sectional Door	05
›	Panel Designs	22
	<i>S1 - Linear Motive</i>	24
	<i>S2 - Square Motive</i>	26
	<i>S3 - Flat Motive</i>	28
	<i>S4 - One Line Motive</i>	30
	<i>S5 - Multiline Motive</i>	32
›	Colors	34
›	Door patterns	38
›	Windows	40
›	Window Combinations	44
›	Glazed Panels	48
›	Pedestrian Door	52
›	Combinations	56
›	Installation Types	58
›	General View	60
›	Motors & Electronics	62
›	Company	68

 BIOROL S.A.

**WE ARE HERE FOR YOU.**

**WE KNOW HOW TO  
LISTEN TO YOUR  
WHISHES AND MAKE  
THEM HAPPEN.**

BIOROL is a company that operates in the field of metal constructions and is specialized in the design, development and production of garage doors, sectional doors and high security products for more than 28 years.

High product quality is validated by internal procedures based on the continuous and strict quality control. The company has aligned its products according to international standards (ISO) and certified them according to the strict European safety standards (EN 13241-1).



# 12 REASONS

TO CHOOSE A BIOROL SECTIONAL DOOR



# 01

**LONG  
LIFE  
PRODUCT**

Sectional Overhead Door is an exceptional product made of polyurethane panels and able to operate for a long time without any problems. To make this happen BIOROL S.A. uses only the best materials in its construction and trusts the production procedure only in highly specialized personnel. The whole process is backed up by R&D and Quality Departments to ensure a result that fits your needs and will continue to operate for many years to come.

This way you can be sure that your BIOROL S.A. Sectional Door will operate safely for a long time, with minimum annual maintenance and zero problems.

# 02

## GREAT DESIGN

Every BIOROL Sectional Door is designed to cover all your needs. High quality operations, great aesthetics, wide range of colors, are only a few of the characteristics that make it the right door for you.

BIOROL Residential Sectional Door is designed and manufactured with the higher quality standards and materials. Whatever the construction specifications, BIOROL Residential Sectional Door will be designed and manufactured to fit the appearance of the building perfectly. For us, there are no limits in garage door construction. You name it, we build it.

# 03

## SECURITY

One of the important issues that worry a sectional door owner is security. BIOROL Residential Sectional Door is manufactured with hot galvanized steel sheets thus making it really sturdy and keeping unwanted visitors away.

# 04

## HEAT INSULATION

Heat insulation of a Sectional door is an important selection factor. Panels and hence residential Biorol doors allow transmission and minimal heat loss to the external environment ensuring maximum savings in energy consumption. It helps your building to keep warm in winter and cool in summer. In the corresponding technical brochure of our company you will find accurate measurements which will help you to precisely calculate the contribution of a BIOROL Residential Sectional Door in your building.



# 05

## SOUND

## INSULATION

Tranquility is often an important factor for the success and efficiency in a workplace. This can be achieved by selecting a BIOROL Residential Sectional Door, since it can provide considerable sound insulation. The sound reduction measurements and all performance factors have been tested and approved in laboratories and according to strict standards set by the relevant European directive.

# 06

## QUICK DELIVERY

One of BIOROL's main advantages is quick production and delivery of custom products (tailor made) even when we have to work on special construction or paints.

With respect to the customer and his requirements, we can ensure that every door that comes out of our factory, will reach to him fast and fully operational.





# 07

## UNIFORM APPEARANCE – PAINTED GUIDES AND ACCESSORIES

### INTERNAL SIDE:

When your desire is for your door to have a uniform appearance in the internal side BIOROL has the perfect solution for you. Even though the guides and the accessories are not painted on the internal side, now you have the choice to have them painted with the same color (RAL 9002) as the internal side of the panels.

### EXTERNAL SIDE:

In special occasions a metal frame must be constructed so the door can fit on the building. When this is necessary, BIOROL makes sure to construct it in a way that its appearance is in concordance with the door. All you have to do is ask and we are here to make it happen.



# 08

## PANEL TYPES

All BIOROL polyurethane panels are available in two different types of surface. Stucco and Sandgrain. Each of them can be used to cover your needs or taste.



The Residential series by BIOROL are characterised by the quality of the materials used. The wide range of gates combines durability, functionality and aesthetic in high level result.

# 09

## WIDE RANGE OF COLORS



A wide range of colors that can satisfy any customer's requirement. Certified architectural powder coatings give exceptional durability. Ask only for original BIOROL panels. Powder coated panels in 26 standard matte hues and many more on demand, can cover every request and satisfy even the most demanding customers. The painting procedure is controlled entirely by BIOROL S.A. and this is why we can ensure the quality of every panel that comes out of our factory. High quality powder coating with corrosion resistant varnish ensures that the color of your door will last for many years.

A photograph of a wooden pedestrian door set within a larger sectional door frame. The door is made of dark wood with a panel design. The background shows the interior of a garage with a white wall and a light fixture.

# 10 PEDESTRIAN DOOR

It is important for every sectional door to be stressed as little as possible, which means less uses everyday (open-close). That is why we offer the choice of a Pedestrian

Door that allows free people passage without opening the sectional door. It can be manufactured in a maximum width of 1200mm. It can also be produced with a low-threshold to allow free passage for wheeled loaders etc. It can also be equipped with various accessories like windows, locks, security bar and more. Like in every other product, BIOROL always makes sure that the pedestrian door (incorporated or not) will have a uniform appearance with the rest of the sectional door. For more information check page 52 of the brochure.

# 11

## GLAZED PANELS WINDOWS VENTILATION

Using specially designed profiles BIOROL manufactures glazed aluminum sectional doors. This way one can have access to the maximum amount of lighting a sectional door can provide. Single or double plexiglass can be used according to the customer's needs. As a third option a metal grid can be placed on the panels when additional ventilation is the desired result. Aluminum panels can be combined with the polyurethane panels perfectly allowing you to make any combination that you desire.





# 12

## **MOTORS - AUTOMATIONS**

All the sectional doors manufactured by BIOROL are accompanied by the appropriate, reliable and long life tested motors and electronics that make every use of the door an easy and safe matter.

# Profiles



*Ask only for the  
original panel  
BIOROL.  
The right choice.*



# Sectional Door Panel Profiles



## S1 - Linear

Available in:

- a) stucco (G) surface 480mm or 600mm
- b) sandgrain (L) surface 480mm or 600mm



## S2 - Square

Available in:

- a) stucco (G) surface 480mm or 600mm
- b) sandgrain (L) surface 480mm or 600mm



## S3 - Flat

Available in:

- a) stucco (G) surface 480mm or 600mm
- b) sandgrain (L) surface 480mm or 600mm



## S4 - One Line

Available in:

- a) stucco (G) surface 480mm or 600mm
- b) sandgrain (L) surface 480mm or 600mm



## S5 - Multiline

Available in:

- a) smooth (S) surface 480mm or 600mm



**D1 - Aluminum Glazed**  
With single plexiglass 5mm



**D2 - Aluminum Glazed**  
With double plexiglass 3/9/3mm



**D3 - Aluminum**  
With metal grid



**D4 - Aluminum**  
With Ventilation Grills

		S1	S2	S3	S4	S5	D1	D2	D3	D4
STUCCO	Prepainted (RAL 9002, 9006,9016)	✓	✓	✓	✓	-	-	-	-	-
	Powder Coated MAT COIL CL (6 Colors)	✓	✓	✓	✓	-	-	-	-	-
	Powder Coated MAT BIO DL (20 Colors)	✓	✓	✓	✓	-	-	-	-	-
	Wood -Powder Coated MAT COIL TX	✓	✓	✓	✓	-	-	-	-	-
SANDGRAIN	Powder Coated MAT COIL TX(6 Colors)	✓	-	✓	✓	-	✓	✓	✓	✓
	Powder Coated MAT BIO DL(20 Coors)	✓	-	✓	✓	-	✓	✓	✓	✓
	Wood-Powder Coated MAT COIL TX	✓	-	✓	✓	✓	-	-	-	-
SMOOTH	Prepainted (RAL 9002, 9006,9016)	-	-	-	-	✓	-	-	-	-
	Powder Coated MAT (25 Colors)	-	-	-	-	✓	✓	✓	✓	✓

## S1 - Linear Motive



### 1. S1 Linear Motive - Specifications

Panel filled with inflated polyurethane, double wall with stucco (G) or Sandgrain (L) shaped galvanize steel sheet, thickness in/out - 0,4/0,5mm. Total Panel's thickness: 42 (±1)mm. Polyurethane density 42 (±1)kg/m<sup>3</sup>

Panel	S1-G 480	S1-G 600	S1-L 480	S1-L 600
Height	480mm	600mm	480mm	600mm
Weight	5,2kg/m	6,2kg/m	5,2kg/m	6,2kg/m
Surface	Stucco	Stucco	Sandgrain Smooth	Sandgrain Smooth

#### Production length

- Continuous line (CL): Up to 13,0 m in 6 POWDER COATED tints.(9002, 9006, 9016, 6005, 7016, 8017 & 2 Wood Colors). Minimum order: 200m

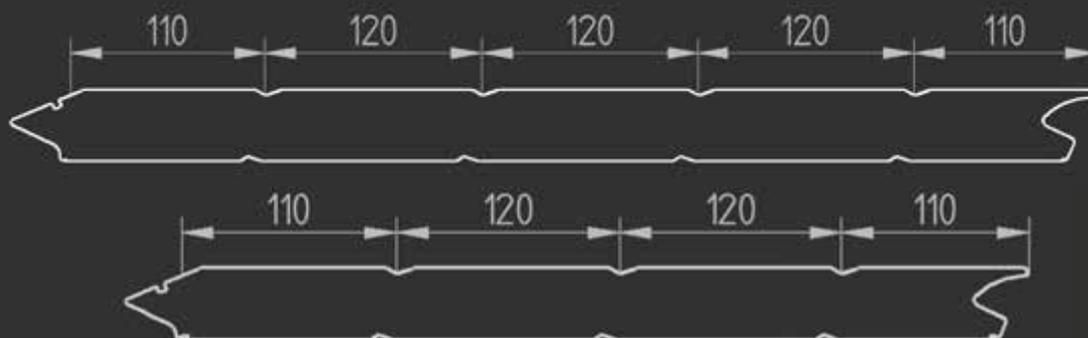
- Discontinuous line (DL): Up to 8,5 m in POWDER COATED tints. Minimum order: free

\*Internal side: S1 Linear Motive, Stucco in color RAL 9002

\*\*More about Colors on page 34



S1 Motive with dimensions



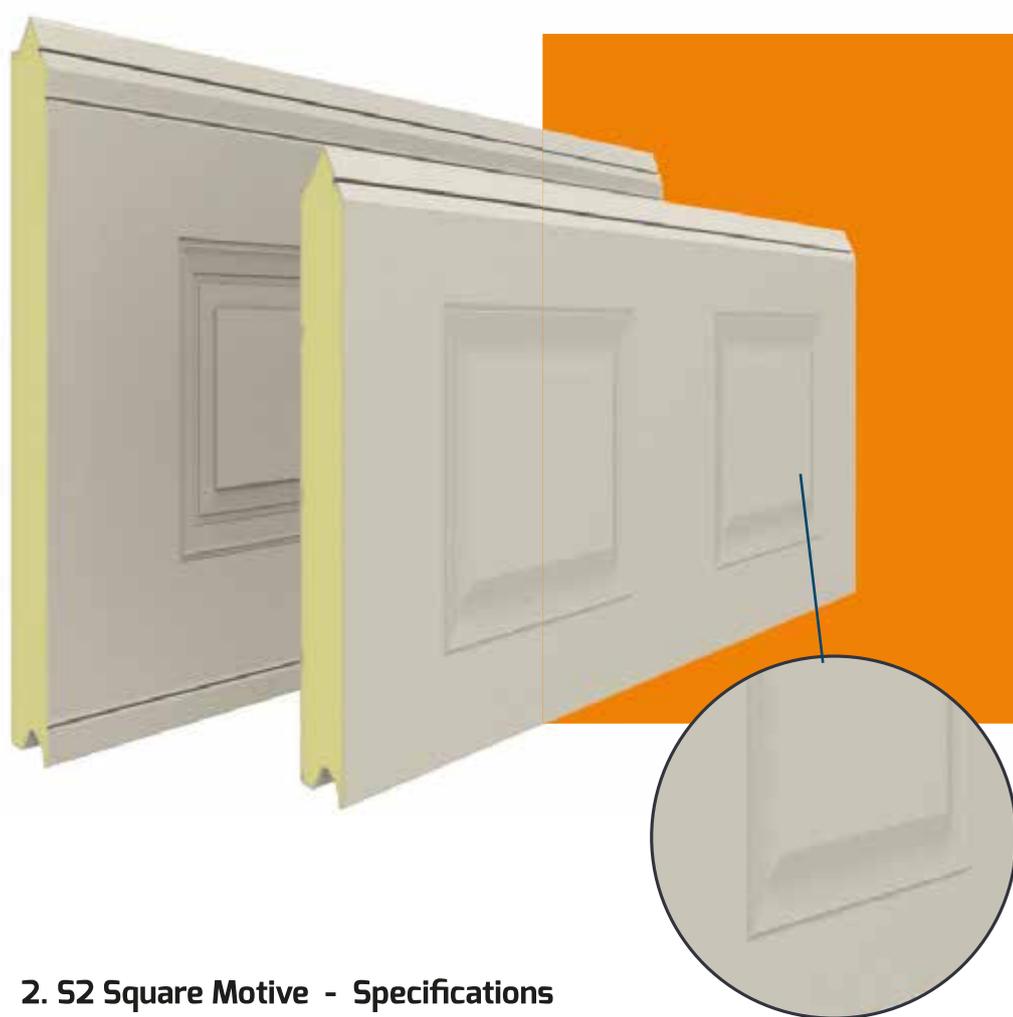
Panel profile designed to have a uniform set of horizontal stripes 120mm wide. Any door height can be made by combining h:480mm and h:600mm panels, without affecting the appearance of the door.  
S1 Linear motive is a versatile profile and can be easily paired with the appearance of most the buildings.



Panel type S1 Linear  
In contrast with the rest of the panels.



## S2 - Square Motive



### 2. S2 Square Motive - Specifications

Panel filled with inflated polyurethane, double wall with stucco (G) shaped galvanize steel sheet, thickness in/out - 0,4/0,5mm. Total Panel's thickness: 42 (±1) mm. Polyurethane density 42 (±1)kg/m<sup>3</sup>

Panel	S2-G 480	S2-G 600
Height	480mm	600mm
Weight	5,2kg/m	6,2kg/m
Surface	Stucco	Stucco

#### Production length

- Continuous line (CL): Up to 13,0 m in 6 POWDER COATED tints.(9002, 9006, 9016, 6005, 7016, 8017 & 2 Wood Colors). Minimum order: 200m

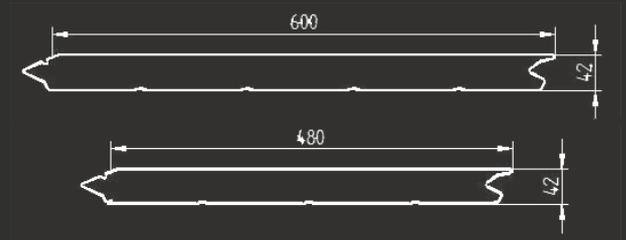
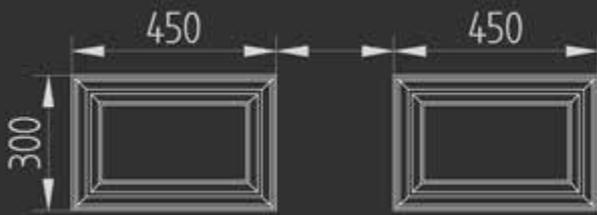
- Discontinuous line (DL): Up to 8,5 m in POWDER COATED tints. Minimum order: free

\*Internal side: S1 Linear Motive, Stucco in color RAL 9002

\*\*More about Colors on page 34



S2 Motive with dimensions



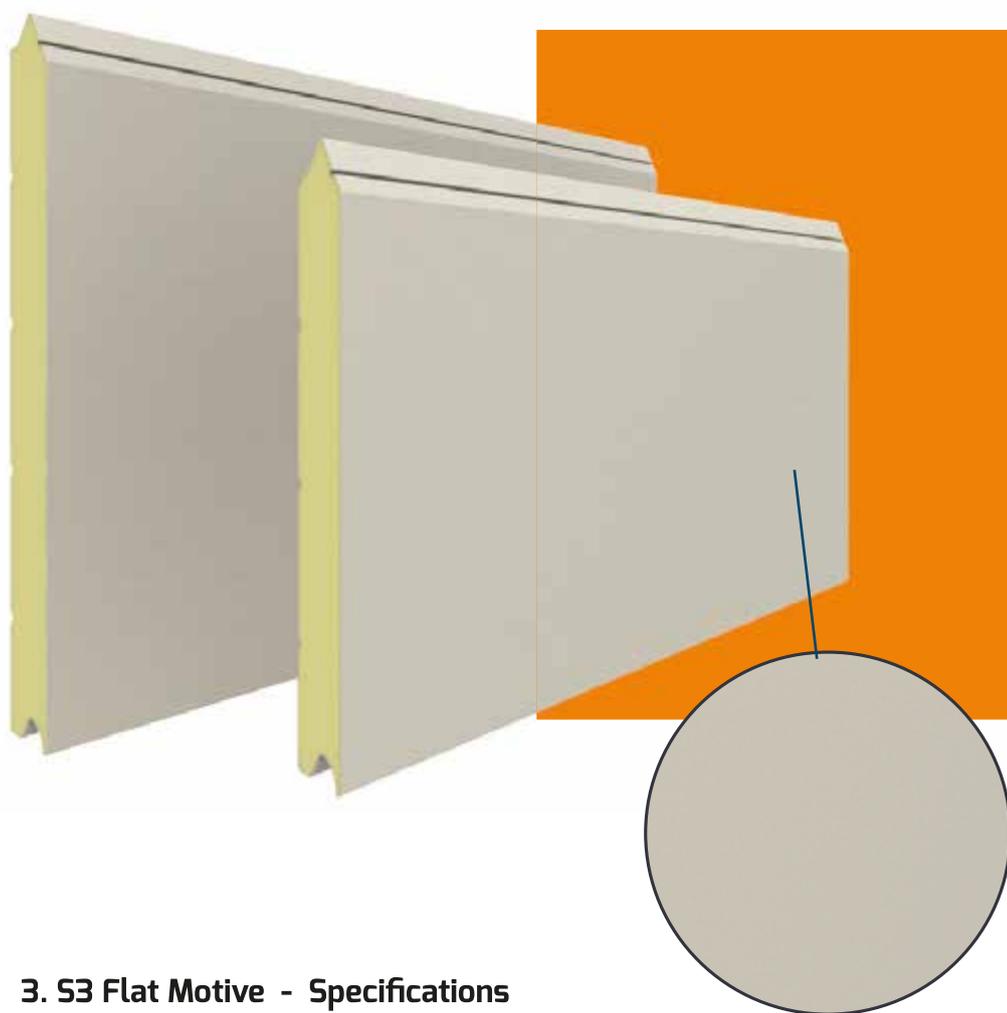
Square motive with adjusted distance between the squares so that the final look can be in harmony. In case there is a pedestrian door, the proper combination of panels and distance are chosen in order to avoid cutting the squares in half. S2 motive can be applied to any door dimension as long as the panels surface is "stucco".



Panel type S2 Square  
In contrast with the rest of the panels.



## S3 - Flat Motive



### 3. S3 Flat Motive - Specifications

Panel filled with inflated polyurethane, double wall with stucco (G) or Sandgrain (L) shaped galvanize steel sheet, thickness in/out - 0,4/0,5mm. Total Panel's thickness: 42 (±1)mm. Polyurethane density 42 (±1)kg/m<sup>3</sup>

Panel	S3-G 480	S3-G 600	S3-L 480	S3-L 600
Height	480mm	600mm	480mm	600mm
Weight	5,2kg/m	6,2kg/m	5,2kg/m	6,2kg/m
Surface	Stucco	Stucco	Sandgrain Smooth	Sandgrain Smooth

#### Production length

- Continuous line (CL): Up to 13,0 m in 6 POWDER COATED tints.(9002, 9006, 9016, 6005, 7016, 8017 & 2 Wood Colors). Minimum order: 200m

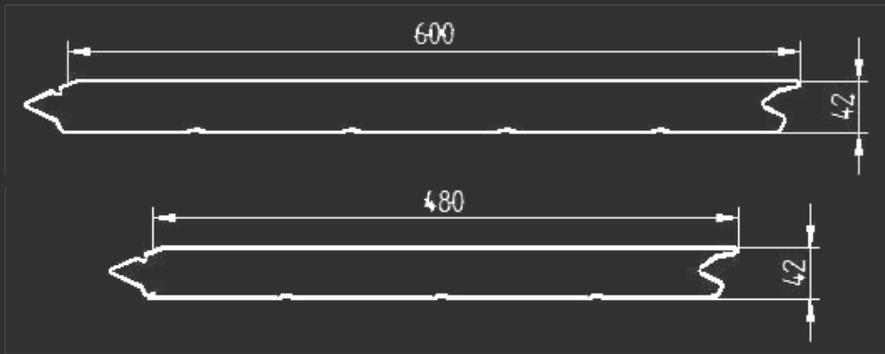
- Discontinuous line (DL): Up to 8,5 m in POWDER COATED tints. Minimum order: free

\*Internal side: S1 Linear Motive, Stucco in color RAL 9002

\*\*More about Colors on page 34



S3 Motive with dimensions



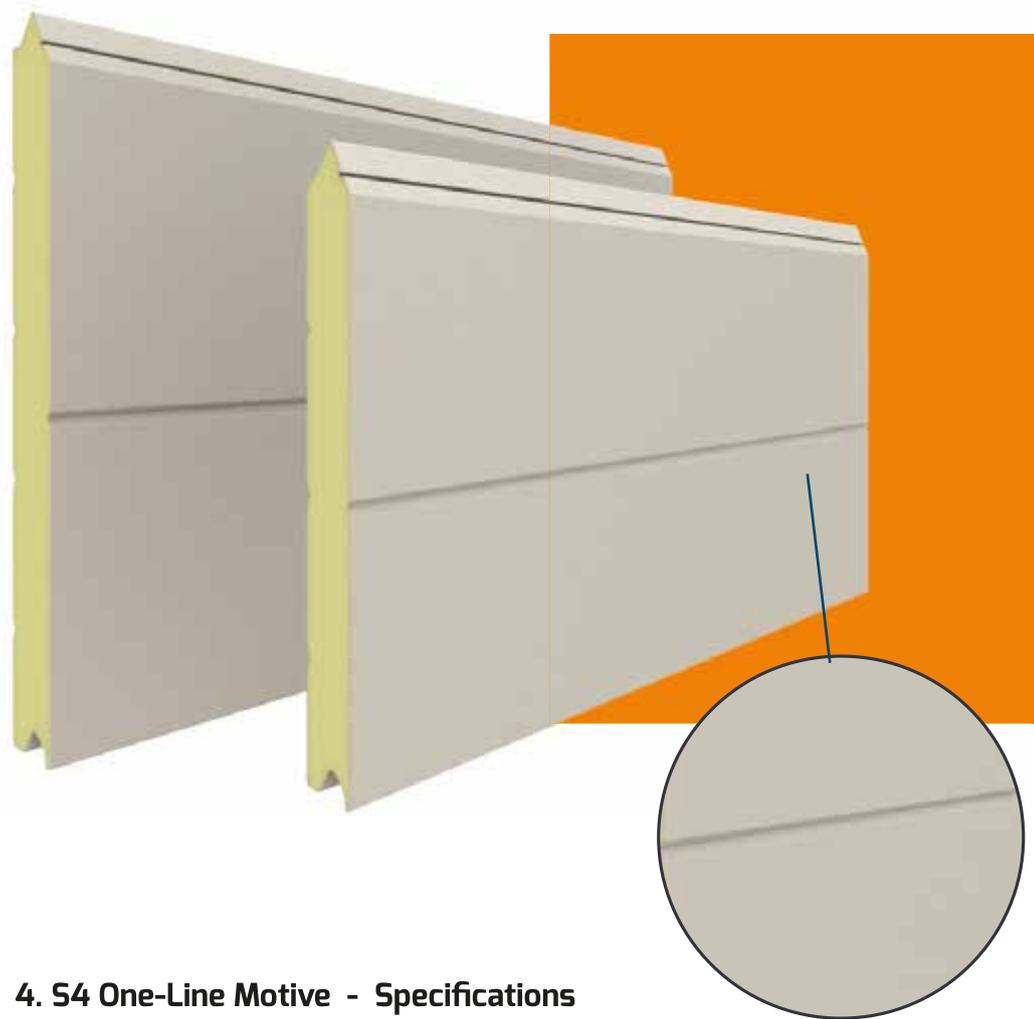
S3 Flat motive is a modern design and can be easily adapted to sectional doors that are part of buildings with straight surfaces thereby enhancing their final appearance. Due to minimal design of the motive it is quite easy for it to match with any kind of wall surface.



Panel type S3 Flat  
In contrast with the rest  
of the panels.



## S4 - OneLine Motive



### 4. S4 One-Line Motive - Specifications

Panel filled with inflated polyurethane, double wall with stucco (G) or Sandgrain (L) shaped galvanize steel sheet, thickness in/out - 0,4/0,5mm. Total Panel's thickness: 42 (±1)mm. Polyurethane density 42 (±1)kg/m<sup>3</sup>

Panel	S4-G 480	S4-G 600	S4-L 480	S4-L 600
Height	480mm	600mm	480mm	600mm
Weight	5,2kg/m	6,2kg/m	5,2kg/m	6,2kg/m
Surface	Stucco	Stucco	Sandgrain Smooth	Sandgrain Smooth

#### Production length

- Continuous line (CL): Up to 13,0 m in 6 POWDER COATED tints.(9002, 9006, 9016, 6005, 7016, 8017 & 2 Wood Colors). Minimum order: 200m

- Discontinuous line (DL): Up to 8,5 m in POWDER COATED tints. Minimum order: free

\*Internal side: S1 Linear Motive, Stucco in color RAL 9002

\*\*More about Colors on page 34



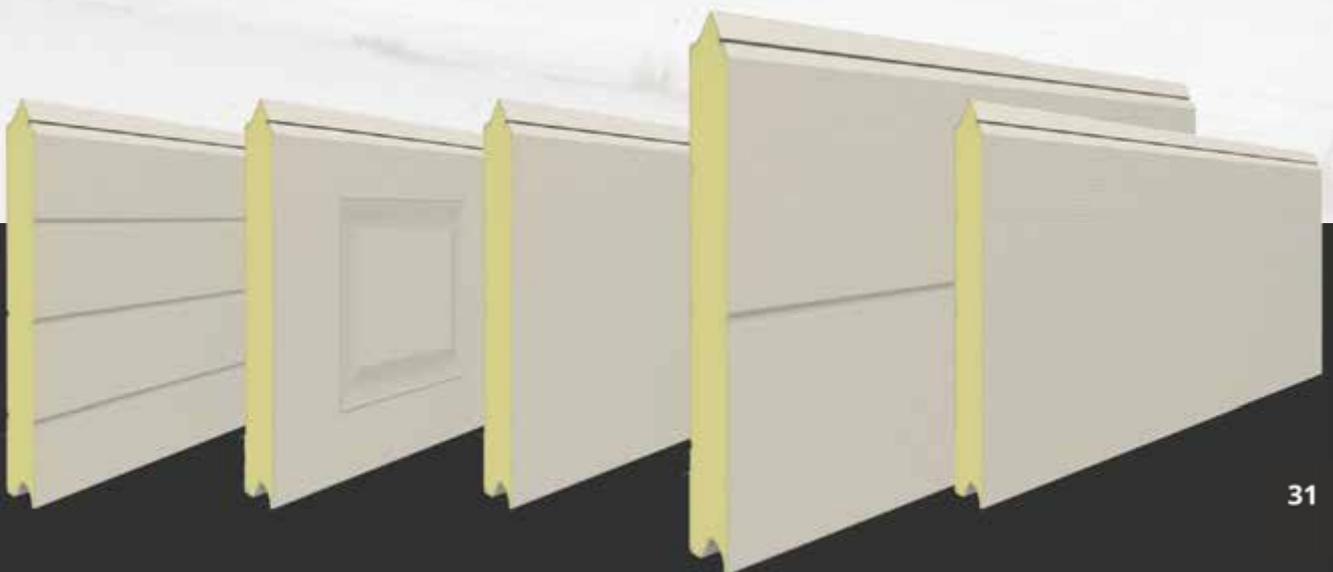
S4 Motive with dimensions



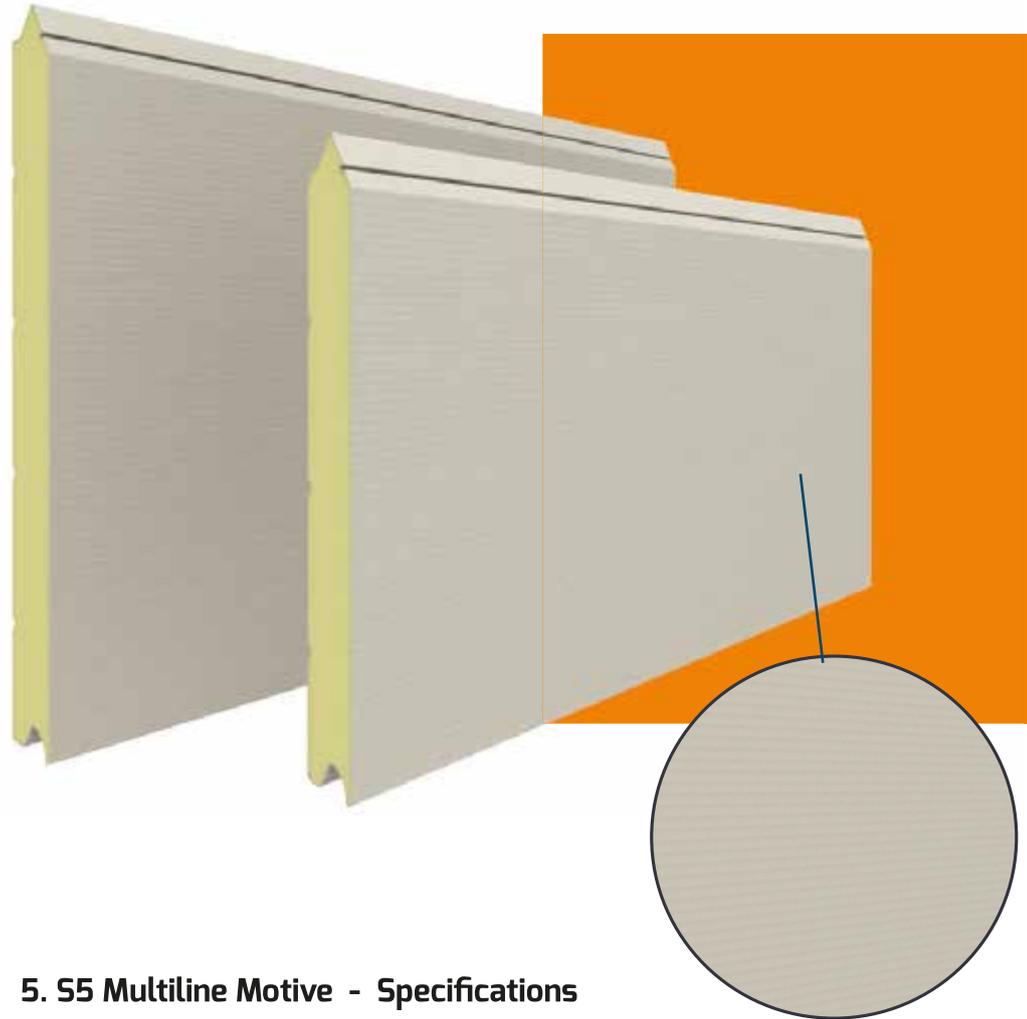
Online motive is a profile divided in half with a line across the middle. This way it gives the impression of a heavy and sturdy construction. It is used mainly on buildings with neoclassical exterior design, but it can be adapted to any building without a problem.



Panel type S4 OneLine  
In contrast with the rest of the panels.



## S5 - Multiline Motive



### 5. S5 Multiline Motive - Specifications

Panel filled with inflated polyurethane, double wall with Smooth (S) shaped galvanize steel sheet, thickness in/out - 0,4/0,5mm. Total Panel's thickness: 42 (±1) mm. Polyurethane density 42 (±1)kg/m<sup>3</sup>

Panel	S5-L 480	S5-L 600
Height	480mm	600mm
Weight	5,2kg/m	6,2kg/m
Surface	Sandgrain Smooth	Sandgrain Smooth

#### Production length

- Continuous line (CL): Up to 13,0 m in 6 POWDER COATED tints.(9002, 9006, 9016, 6005, 7016, 8017 & 2 Wood Colors). Minimum order: 200m

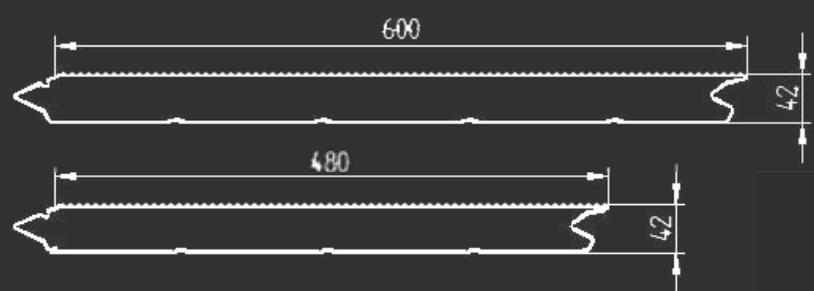
- Discontinuous line (DL): Up to 8,5 m in POWDER COATED tints. Minimum order: free

\*Internal side: S1 Linear Motive, Stucco in color RAL 9002

\*\*More about Colors on page 34



S5 Motive with dimensions



Multiline, a special panel motive that can be produced in both smooth and sandgrain surface types. The smooth straight lines that run across the panel make it look sturdier and more impressive. Like any other panel of the BIOROL series it's both durable and elegant.



Panel type S5 Multiline  
In contrast with the rest of the panels.



# Colors

## POWDER COATED COLORS

In Biorol we know how to achieve the ultimate customer satisfaction with high quality powder coating paints.

Our biggest advantage is the wide range of colors combined with the short delivery times.

TGIC-free polyester resin based thermosetting powder coating for outdoor coating where an excellent weather resistance is required.

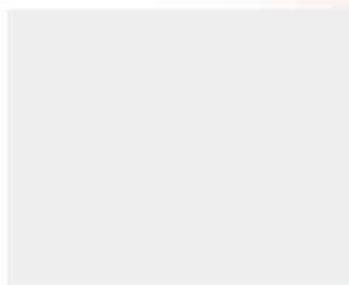
High qualicoat specifications such as thickness, gloss, cross cut adhesion, bend, impact, etc ensures that your door will appear the same for many years.



**Stucco (G)**



**Sandgrain (L)**



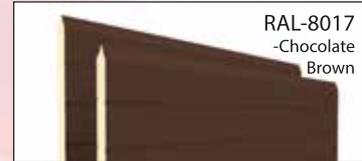
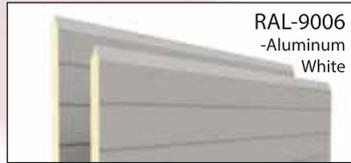
**Smooth (S)**

- ✓ UV Tested
- ✓ Salt Spay Tested
- ✓ Corrossion Resistant

***Our wide range of colors  
can meet every costumer's  
requirements***

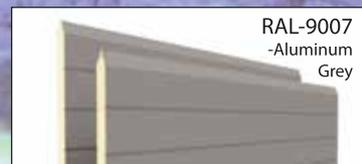
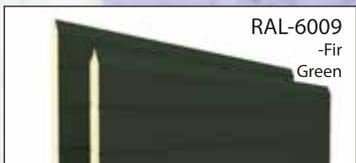
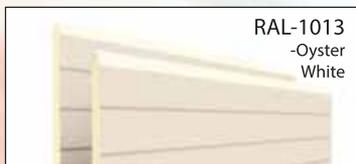
Powder coated quality is always the best because the electrostatic colors are distributed in a uniform manner giving the door a long -lasting protection in time.

## STANDARD RAL COLORS (Up to 13m production)



Six standard RAL colors and two woods imitations up to 13m production

## RAL COLORS - ON DEMAND (Up to 8m production)



# Colors

## PREPAINTED COLORS

Prepaint quality is a thermosetting polyester paint. Coating for exterior applications such as panels for garage doors and sectional doors. Coating composition of Primer-Color is durable to cracking, bending, and impact. Depending on the external environment it can last for long time of period without apparent problems.

- ✓ UV Tested
- ✓ Salt Spay Tested
- ✓ Corrossion Resistant



**Stucco (G)**

## PRE-PAINTED RAL COLORS



# WOOD IMITATION COLORS

BIOROL S.A. continuing the effort for better quality and unbeatable prices, presents its newest product: New high quality painted wood imitation colors which replace the old plastificated ones.

Innovative galva pre-painted and printed designed and selected for the attractive appearance and well protected from color change chalking and corrosion.

Metal sheet surface: Smooth with sandgrain paint/ Stucco with sandgrain paint

- Extra high quality powder coating paint (Transparent layer)
- Eco-friendly powder
- More resistant to scratches comparing to the pre-painted sheet

- ✓ UV Tested
- ✓ Salt Spay Tested
- ✓ Corrossion Resistant

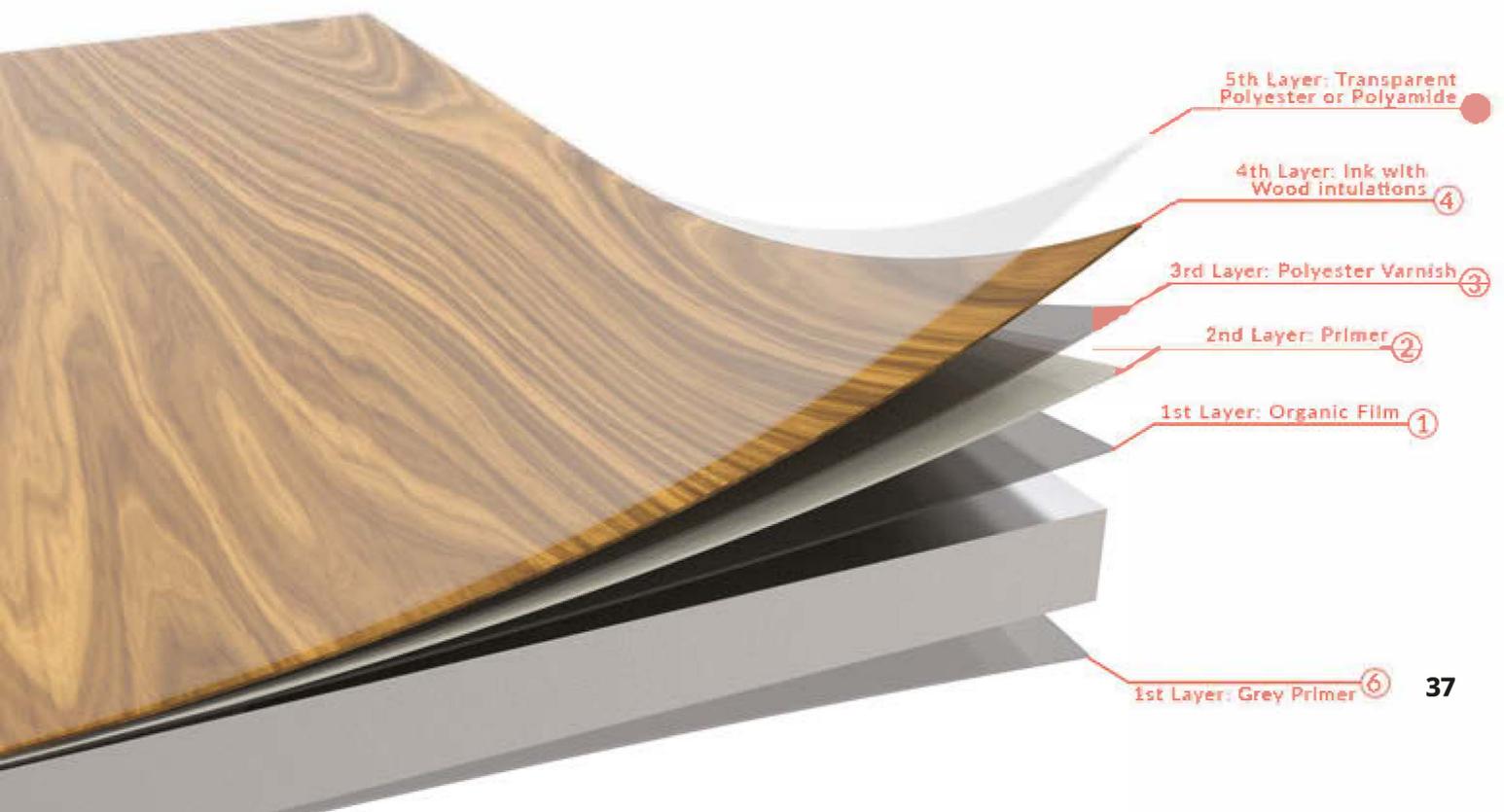
## WOOD IMITATION COLORS (Up to 13m production)



Stucco (G)



Sandgrain (L)



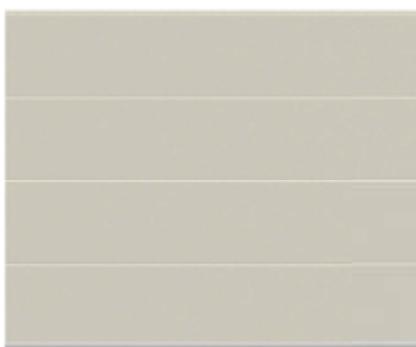
# Door Patterns



S1 - Linear Motive  
4 Panels 600mm



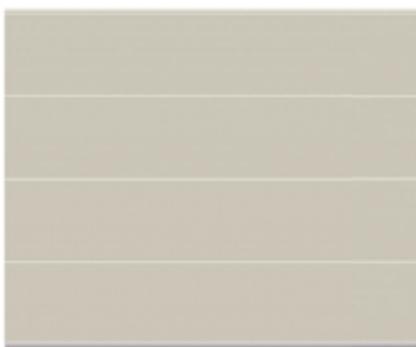
S2 - Square Motive  
4 Panels 600mm



S3 - Flat Motive  
4 Panels 600mm



S4 - One Line Motive  
4 Panels 600mm



S5 - Multiline Motive  
4 Panels 600mm



BIOROL's sectional doors require the minimum possible space, so you achieve plenty of space available inside the building.

**BIOROL** S.A.

# Windows

## INSULATED SECTIONAL DOORS WITH WINDOWS

- The sections with windows, make the interior space and the exterior attractive.
- Ideal for those who want a unique closure, which combines style and safety.
- Big variety of shapes and dimensions will give you the desirability result.
- All windows are double wallet and fixed and sealed with the panels perfectly
- All windows can be placed one (1) piece per linear meter.



Window Rectangular: WxH= 640x336mm



Window Oval Big: WxH= 670x345mm



Window Rectangular Small: WxH= 610x203mm



Window Rectangular: WxH= 490x324mm



Window Rectangular: WxH= 490x324mm  
\*when put on S2 panel, it takes the place of a square in the pattern



Window Square: WxH= 310x310mm



Window Round: Ø 330mm



Ventilation Grill: WxH= 344x138mm

Ventilation



Choose the light !  
Combinations in shapes and  
dimensions together with sense of  
safety and attractiveness







There is always the correct window for each panel motive



Windows are a wonderful addition to your door. They offer style & character and make your door beautiful.

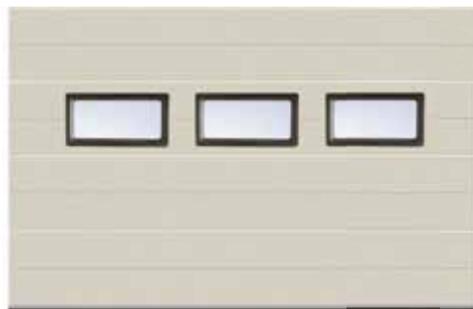


All windows are double walled with perimetrical black pvc structure frame. Excellent fitting with small energy loss.

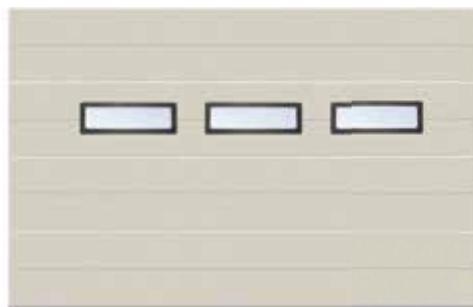
# Window Comms



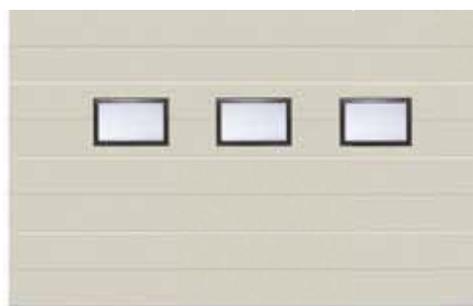
Rectangular Windows  
640x336mm.  
Sectional Door



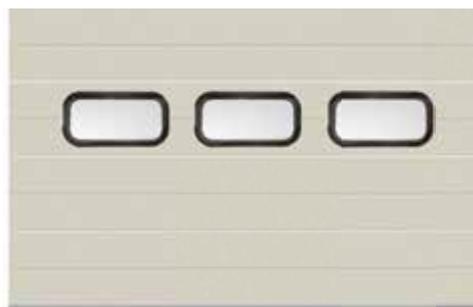
Rectangular Small  
Windows 610x203mm.  
Sectional Door



Rectangular Windows  
490x324mm.  
Sectional Door

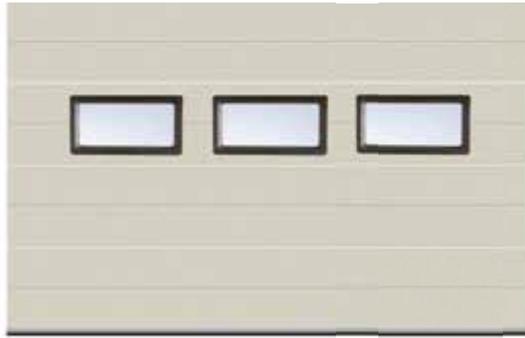


Oval Big Windows  
670x345mm.  
Sectional Door

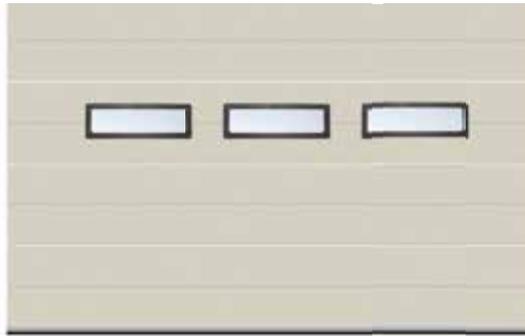




Rectangular Windows  
640x336mm with a  
Matching Side Door



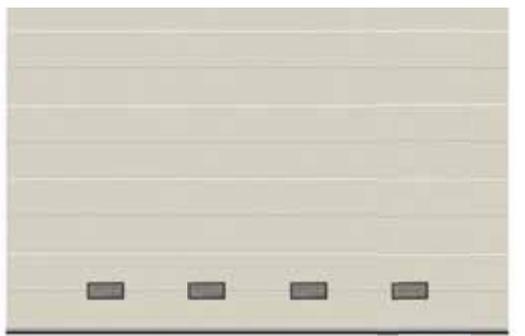
Rectangular Small  
Windows 610x203mm  
with a Matching Side  
Door

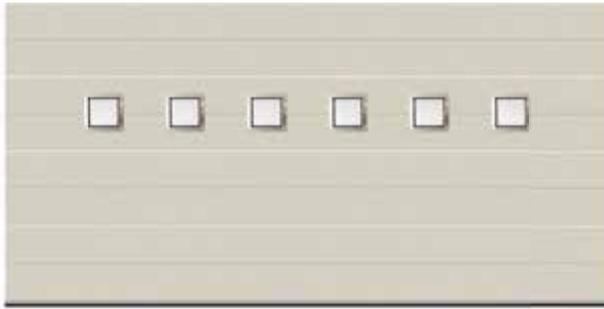


Rectangular Windows  
490x324mm with a  
Matching Side Door



Ventilation Grills  
344x138mm with a  
Matching Side Door





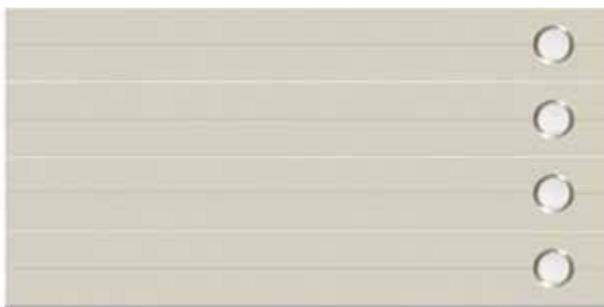
▶ Square Windows 310x310mm on a Sectional Door - Horizontal arrangement



▶ Square Windows 310x310mm on a Sectional Door - Vertical arrangement



▶ Round Windows diam. 330mm on a Sectional Door - Horizontal arrangement



▶ Round Windows diam. 330mm on a Sectional Door - Vertical arrangement



## Glazed Alu Panels



The structure created with aluminum profiles and infill materials of transparent acrylic, make the doors particularly resistant to outdoor conditions allowing the passage of a large amount/quantity of light while maintaining resistance and durability.

Single walled frames are standard and double walled can be produced after demand.

CERTIFICATION EN 13241-1

Industrial sectional door Full vision W: 7000 x H: 6000 Class 2

**D1**



Glazing aluminum frame-Panel with single transparent acrylic sheet 5mm

**D2**



Glazing aluminum frame- Panel with Double transparent acrylic sheet 3/9/3mm

**D3**



Aluminum frame-Panel with perforated metal grid.

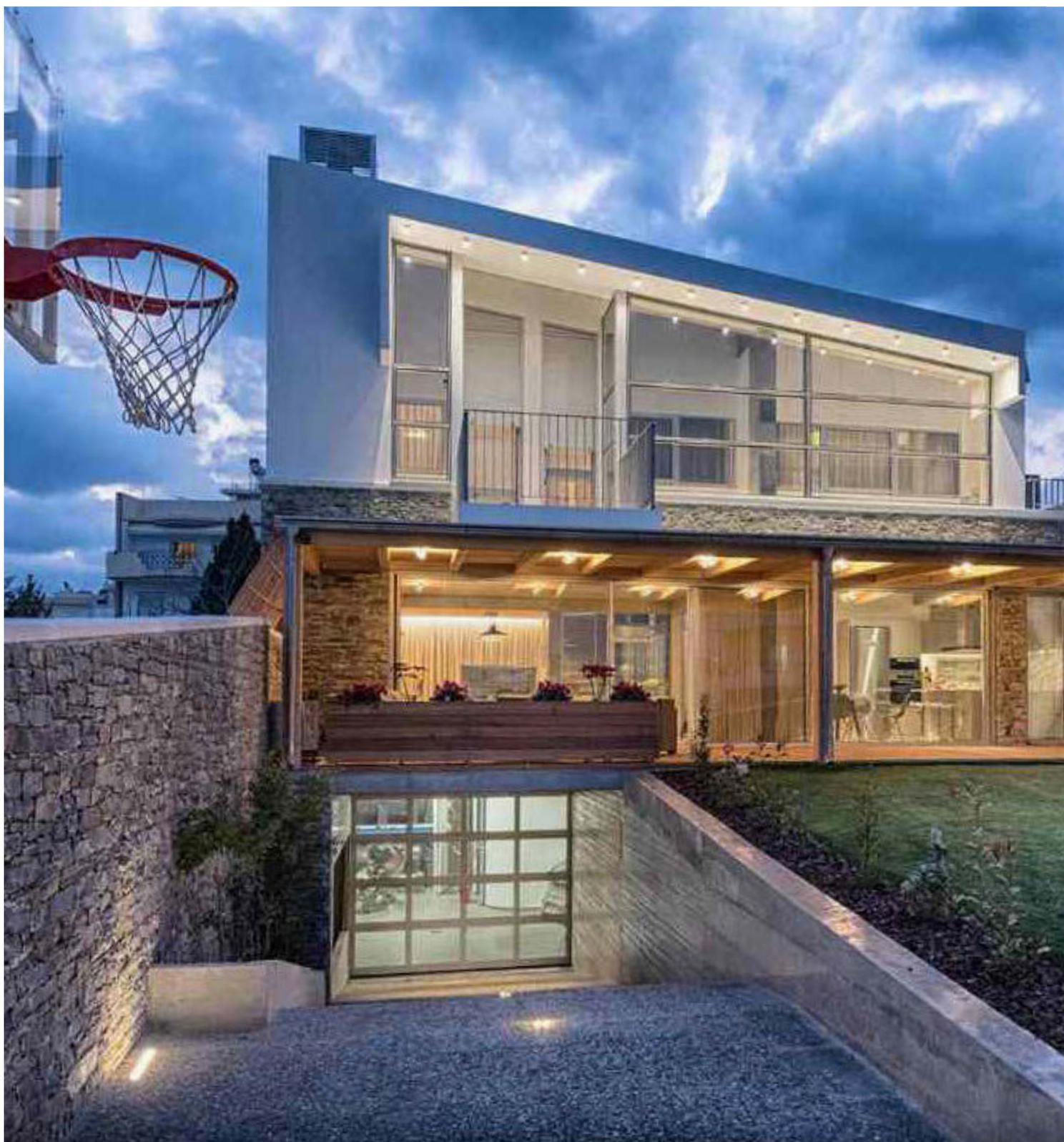
**D4**



Aluminum frame-Panel with stable louvers.



Sectional doors with panels formed by aluminum elements. This solution allows the maximum passage of light or air according to the need of every case.





Full vision glazed sectional doors by BIOROL S.A.



Combination between aluminum frame and polyurethane panels its unlimited. Built in pedestrian door is always available.



An aluminum fully glazed sectional door gives an excellent perspective to the building. Protect the bottom of your full vision door with a closed panel.

# Pedestrian Door

## Pedestrian Door

### Smart Solution

A pedestrian door is always useful especially in spaces where it has to be used several times per day. Pedestrian doors are a smart and practical solution for all the cases where the gate has to be used frequently. This way you can avoid the pointless opening of the sectional door, guarding it against frequent use and protecting it.

### Safety

Every pedestrian door is accompanied by security lock automatic closing mechanism so the door stays closed after every use and a magnetic safety switch that stops the sectional door from operating when the pedestrian door is open.

### Energy Saving

During the winter or the summer season when the demands on heating or cooling are bigger, a pedestrian door can prove to be a very efficient way to save money and energy.

### Options

It can be placed in the center or in either side of the sectional door with a minimum distance from the edge 400mm.  
Maximum construction dimensions W:1200 x H:2200mm.  
A pedestrian door can be placed in both polyurethane and aluminum panel sectional doors.

### Cooperation

In every case BIOROL's technicians will guide you through your selection and propose the better solution for you.  
Check the pages below for various combinations and suggestions about your pedestrian door.

### Certification

Max Dim: W:6000mm x H: 6000mm wind resistance Class 2



- » **Increases Sectional Door Life**
- » **It's practical**
- » **Saves energy**

## Pedestrian Door Normal Threshold - (NT)

Normal threshold pedestrian door can be placed on every sectional door as well as on any panel motive.

This type of door is a sturdy and firm construction. The bottom end of the pedestrian door stands 200mm up from the bottom edge of the sectional door.

The standard version of the pedestrian door includes a lock with a handle and a security key, automatic closing device, and a magnetic switch. Furthermore, you choose to place a panic bar when there is a need for it.



## Pedestrian Door Low Threshold - (LT)

Low threshold incorporated pedestrian door is a pretty useful addition to your sectional door as it makes access much easier.

It only has a bump 27mm from the ground thus making easy for carts and other wheeled objects to pass through. This version of the pedestrian door can only be placed on a sectional door up to 5000mm wide.

Ideal for frequent use. It can be used for an emergency exit when equipped with a panic bar (not included in the standard equipment).

Tested and approved according to European regulations.



## Pedestrian Door Non Incorporated - (NI)

Non-incorporated pedestrian door is usually constructed when the opening is wide enough to fit both the sectional and the pedestrian door.

It is constructed with metal beams combined with various aluminum profiles and it is matched with the appearance of the sectional door.

The frame over the pedestrian door is constructed with either the same panels as the door or simply with metal beams according to each case.





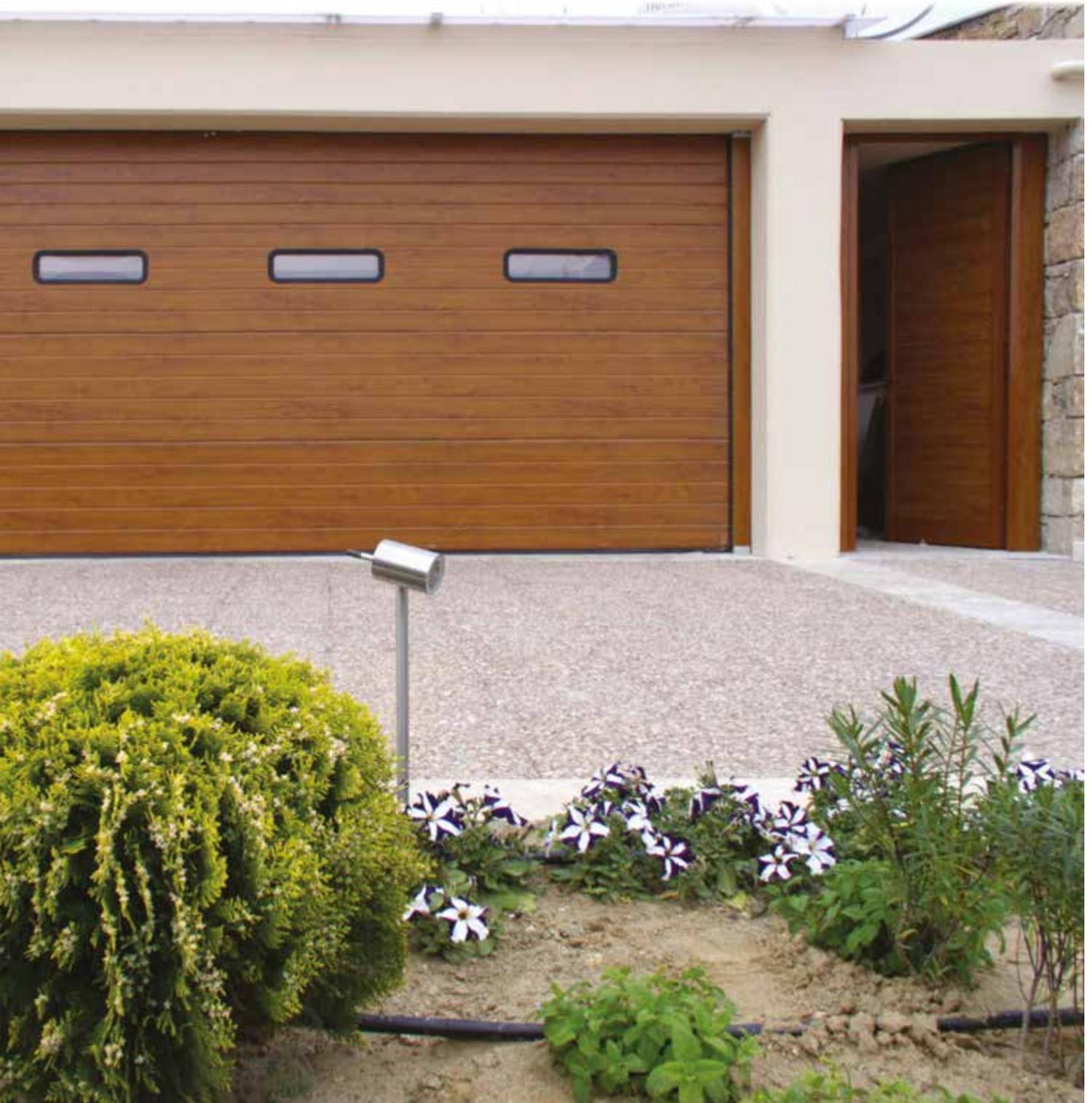
Incorporated or non-incorporated pedestrian door has an immediate use and saves time and money in the long run.



Pedestrian door can be placed on every sectional door and can be combined with any panel type.



**High Quality!  
Made by BIOROL!**



According to each case, incorporated pedestrian door can be placed in the center or on the sides of the sectional door.



Along with the safety lock pedestrian doors include an automatic closing device and a magnetic switch for additional protection and safety during use.

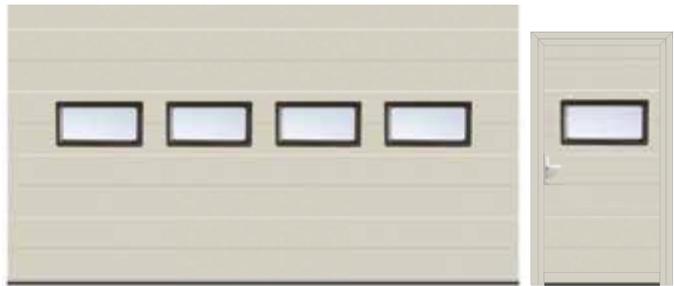
# Combinations



▶ Rectangular Windows 640x336mm with a Matching built in Door -NT



▶ Rectangular Windows 640x336mm with a Matching built in Door -LT



▶ Rectangular Windows 640x336mm with a Matching Side Door -NI



▶ Full vision glazed sectional door with a built in Door - NT. Bottom panel with polyurethane for extra protection.



▶ Rectangular Small Windows 610x203mm with a Matching built in Door -NT



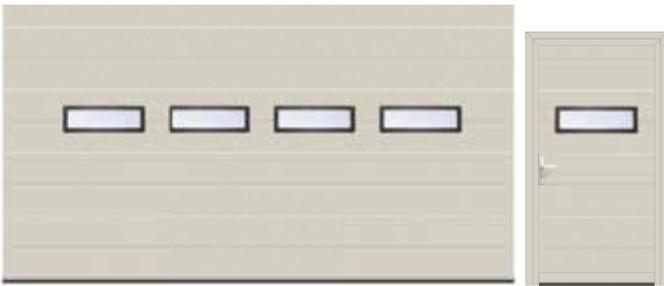
▶ Rectangular Windows 490x324mm with a Matching built in Door -NT



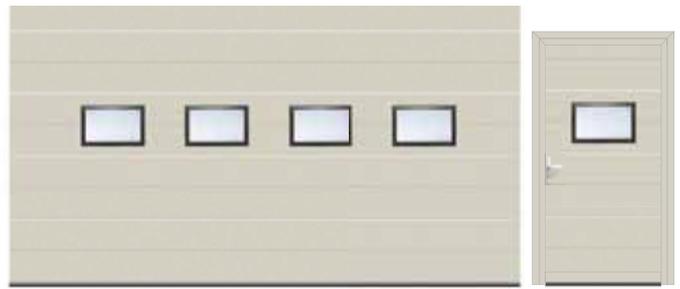
▶ Rectangular Small Windows 610x203mm with a Matching built in Door -LT



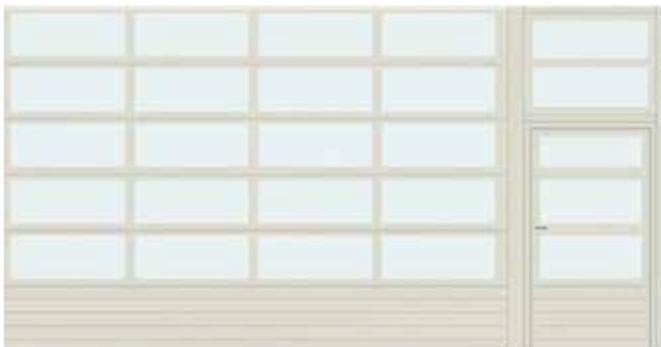
▶ Rectangular Windows 490x324mm with a Matching built in Door -LT



▶ Rectangular Small Windows 610x203mm with a Matching built in Door -NI



▶ Rectangular Windows 490x324mm with a Matching built in Door -NI



▶ Full vision glazed sectional door with a built in Door - NI and hatch. Bottom panel with polyurethane for extra protection.

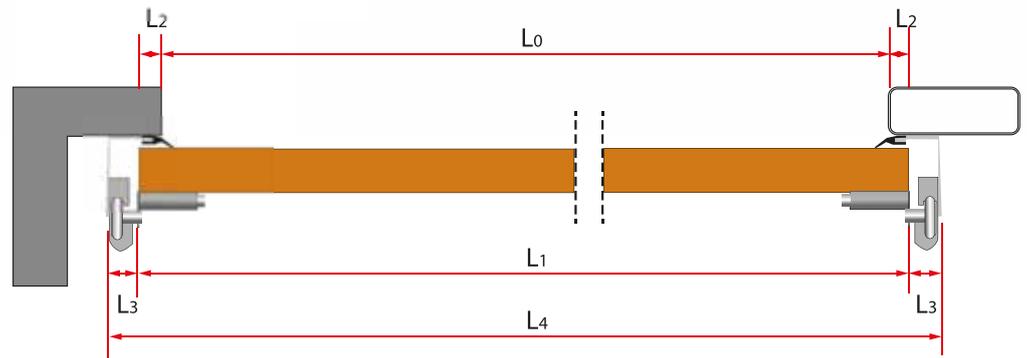


▶ Combination aluminum & polyurethane panels with a built in Door - NT

## Installation Types



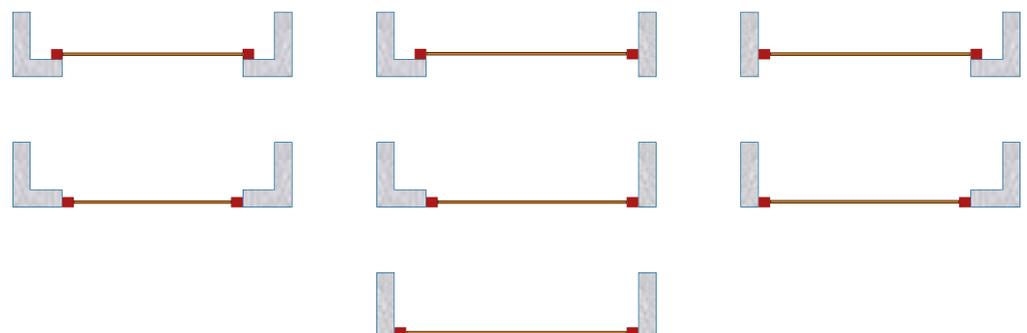
### HORIZONTAL SECTIONS



In case there are no walls for the door to be fastened to they are manually created with metal beams. This means that the opening will be reduced as much as it is needed for the guides to fit.

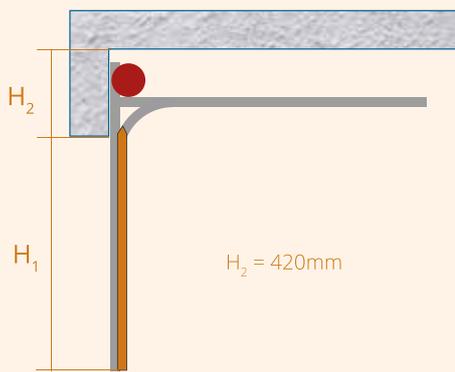
In special cases that are not covered in this brochure BIOROL's technicians will inform you about every detail of your project . See below vertical and horizontal sections of various cases of installations.

- L0 - Clear Opening/ Daylight
- L1 - Panel's Length
- L2 = 20mm
- L3 = 50mm
- L4 - Total Door Width

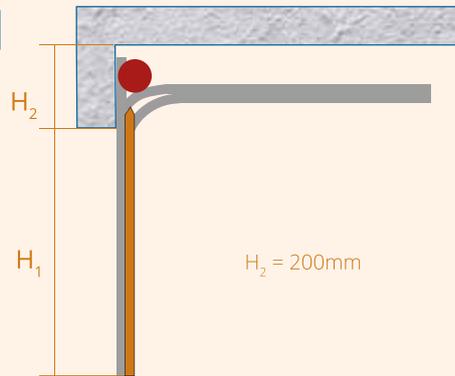


## VERTICAL SECTIONS

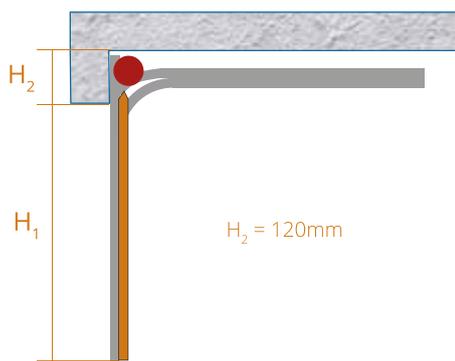
### SINGLE GUIDE



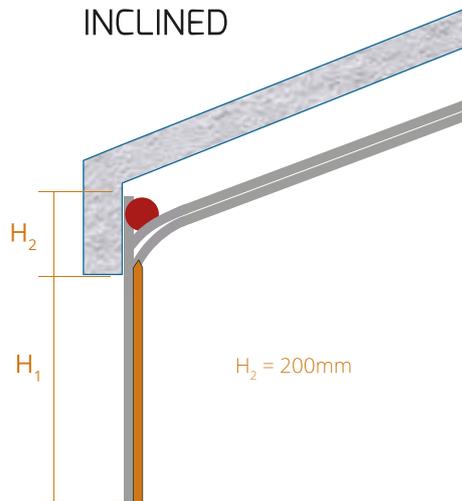
### DOUBLE GUIDE



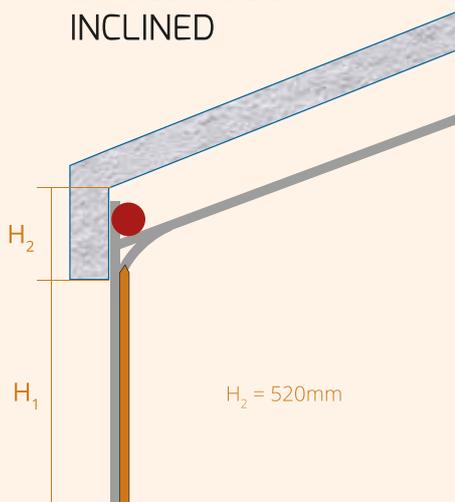
### DOUBLE GUIDE



### DOUBLE GUIDE INCLINED



### SINGLE GUIDE INCLINED

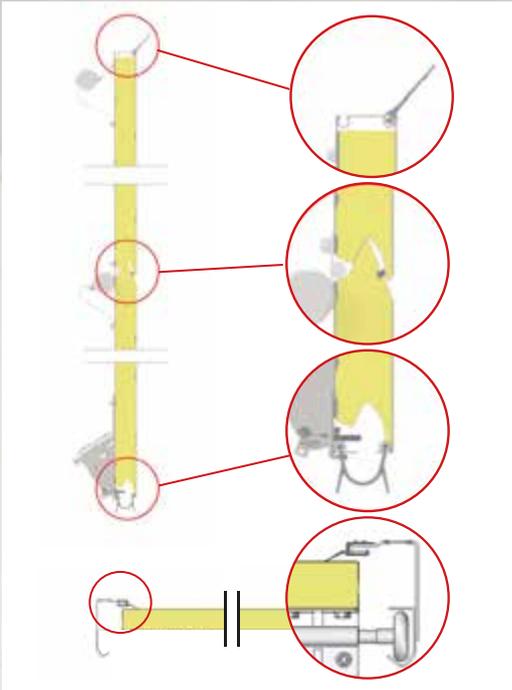


\*All doors can be manufactured with springs placed on the backside of the guides

# Residential S



**1** Low headroom galvanized guides and elements on the panels. Can be painted in RAL 9002 on demand.



**2** Top/Bottom/Side rubbers and intermediate brush prevent contact between exterior and interior space.



**3** Adjustable bottom bracket. Easy door leveling for smooth operation



**60** **4** Safety edge is always necessary when the door is wireless controlled or pulsed operational.



**5** NO TOUCH is a device that guarantees the safety. It prevents any object to have physical contact with the edge of the door.



**6** Finger protection



**Trouble free product**  
**Safety and Security**

# ectional Door

Balanced with Springs



8

12



12

Irreversible 24 Vdc geared motor for intensive use. Residential/commercial applications. Silent operation. Control with built-in encoder and receiver.



11

Pre-assembled and pre-tightened rail with belt and release mechanism. Double adjustable roller and rails with safety.



10

Release lock. Useful in cases the sectional door is the only entrance, because it gives you the option of manual opening from the outer side of the door.



9

Ergonomic handle inside/outside.

ts!  
y for you!



panels (Outside/Inside)



7

Double adjustable roller and rails with safety protection against involution.



8

Torsion springs always together with spring brake device which prevents door falling in case of torsion spring breakage.

# Balanced with Springs

## AUTOMATIONS FOR SECTIONAL GARAGE DOORS RESIDENTIAL/COMMERCIAL USE

belt driven  
control with built-in encoder and receiver  
up to 22 m<sup>2</sup>



## 24 Vdc intensive use

- Irreversible 24 Vdc geared motor for intensive use
- Adjustable travel with mechanical stops
- Amperometric sensor obstacle detection system to prevent crushing
- Operation guaranteed even during electrical power cut, via batteries which integrate perfectly into the motor
- Step by step command ready
- Built-in energy saving LED courtesy light
- The encoder device ensures maximum safety and precision in the door moving phases

## jedi

Electromechanical irreversible actuator for sectional and balanced doors up to 15 m<sup>2</sup>.  
Maximum force 1000 N (100 Kg)

- Accurate and safe operation with encoder
- Sound signalling during automatic closing
- External control keypad and led display for easy changing of the control unit functions
- Silent operation: chain conveying system on galvanized steel rail
- Galvanized steel guide with chain conveying system
- Built-in courtesy lights



## Safety Devices



**NO-TOUCH** is a safety device created and patented in order to guarantee the safety of automations such as sectional doors and main entrances.

Its feature is due to the fact that its installation prevent any object from having a physical contact with the edge of the automation. An infrared beam protects and secure the safety.

**Safety edge** protects in every day life. Safety switching strips for industrial gates passenger doors and work platforms. Flexibly modular design, long service life and high quality.



**ROL S.A.**

## Electronics/ Controllers



Control Unit



Button



Receiver

Full range of all necessary electronic elements are available to command and control automated doors. High quality, reliable and perfect designed products can easily offer several solutions.



Keyswitch



Wireless Keyboard



Photocells



Lamp

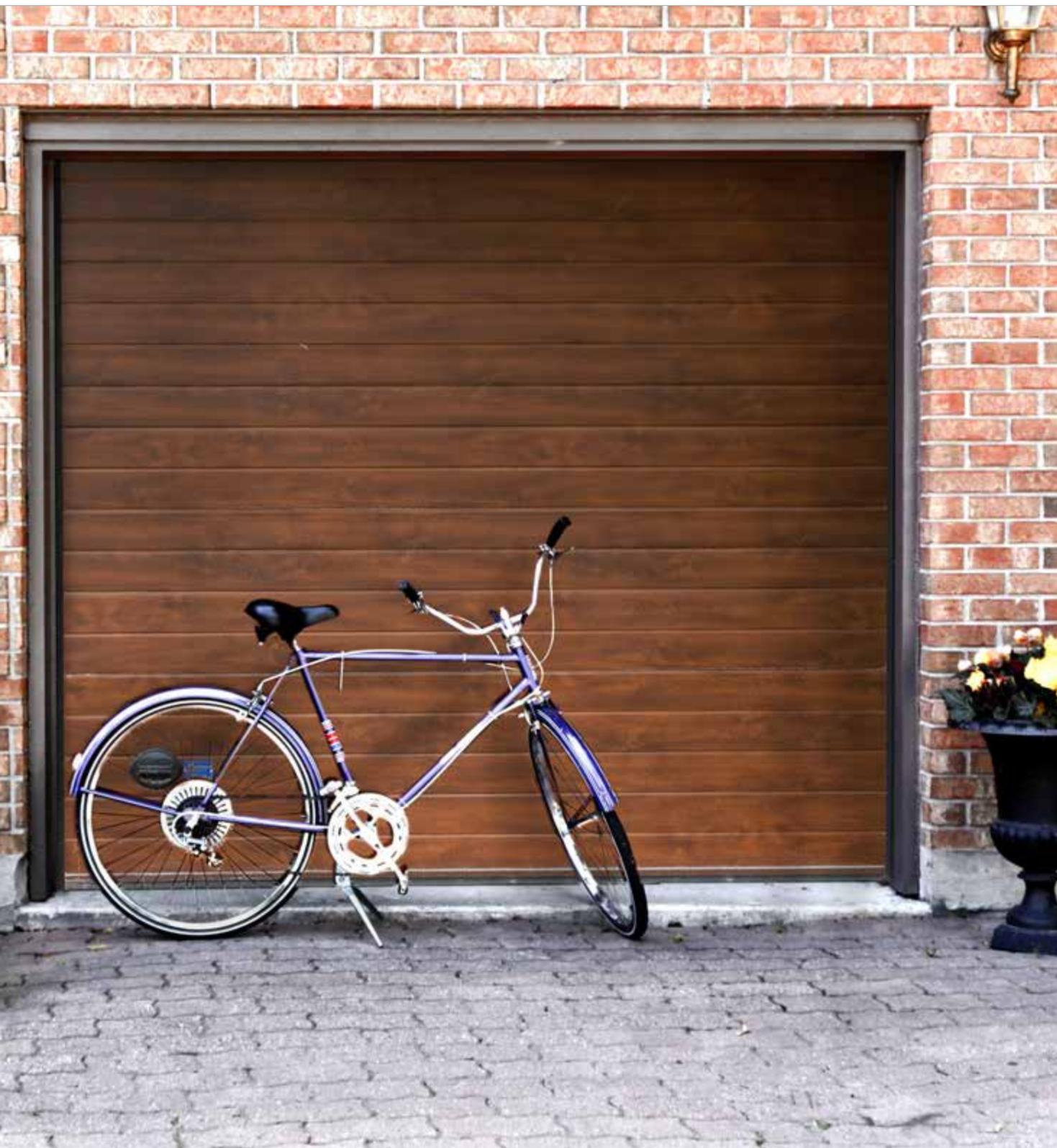


Residential Sectional Door in a wide variety of panel types and colors that can be combined with any type of house.



Tested and certified according to EU specifications, BIOROL Sectional Doors can be a useful tool for many years.





User Safety is a really important factor that extends from design to production and reaches to the final user that enjoys all the advantages of a BIOROL Sectional Door.



Color and panel type combinations can satisfy even the most demanding tastes.

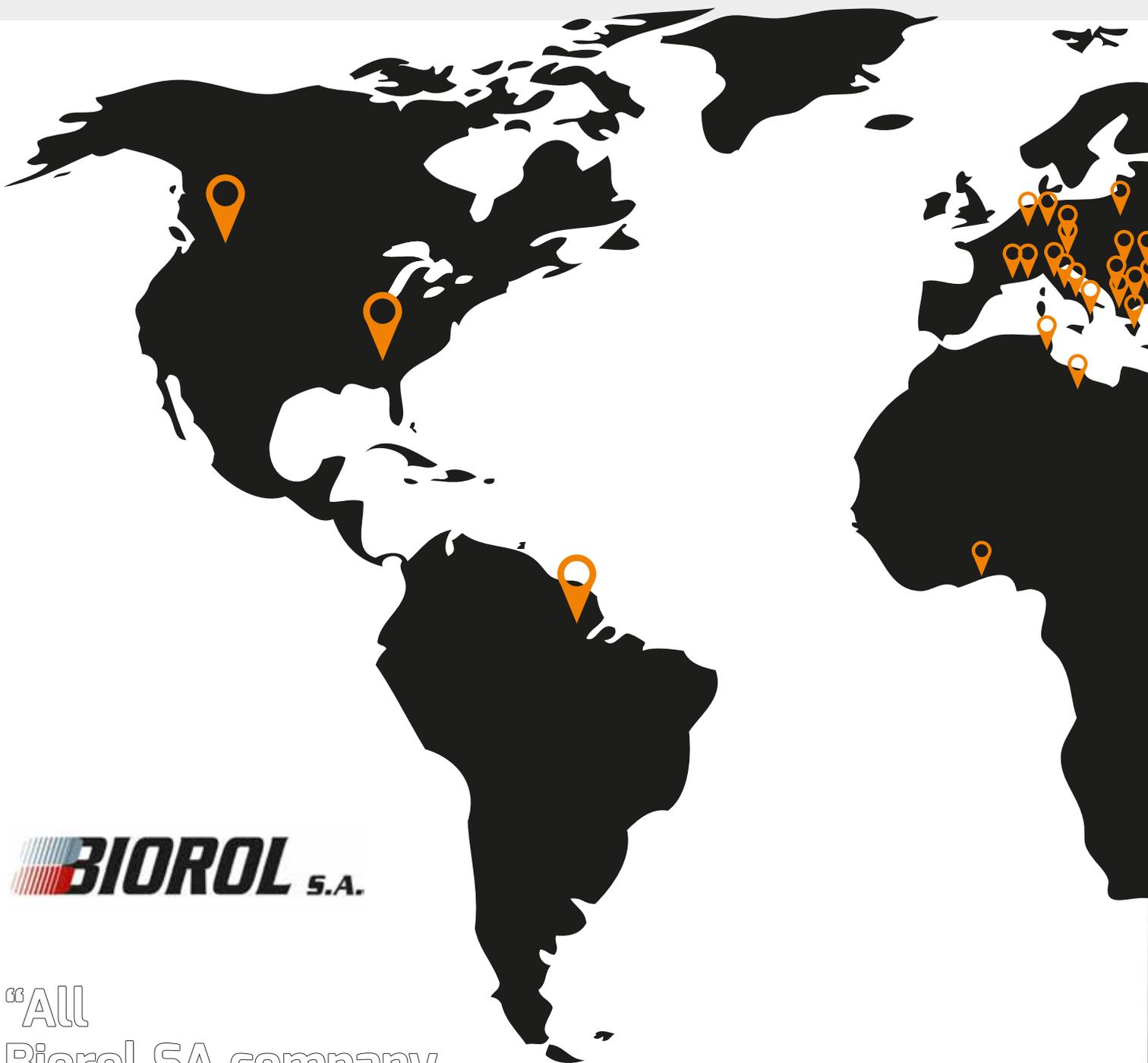


If you desire more light, our wide range of double glass windows can easily be combined with types of panel. – S1, S2, S3, S4, S5.





BIOROL is a partner that stands beside you at all times and whenever it's required and we are ready to offer you the ideal solution.



**BIOROL** S.A.

“All Biorol SA company products are manufactured with certified quality”

The great challenge of Biorol from the first day of its institution was the development and evolution of an innovative philosophy which would have anthropocentric and customer base.

Looking at today's leading position in this specific sector as well as the high esteem gained by its customers, one can easily realize that the challenge has been met.

Investing in a stable workforce, which works daily under excellent working conditions and generally within an environment where high respect dominates as well as the development and rewarding of work, has managed to establish the most appropriate production and distribution conditions of products.

At the same time however, has managed to build an ideal system of values with strong foundations ,where responsibility and respect for the consumer dominates, placing the customer in the center of developments meeting the needs and requirements through an interactive relationship of trust and integrity.



All doors that are developed and manufactured by BIOROL S.A., are perfectly matched to each other, tested and certified by notified body institutes to ensure your safety. They are manufactured in Greece according to the DIN ISO 9001:2008 quality management system and fulfill all the requirements of European standard EN 13241-1:2003+A1:2011. Our highly qualified employees also work intensively on new products, continual further developments and improvement to details.

