**PORTES BISBAL S.L.**
info@angelmir.com
972 640 620

TECHNICAL DATA SHEET v02.2016

# INSTANT PASS

## FOLD UP WINDBREAK SPEED DOOR

The model INSTANT PASS from Angel Mir is a fold up speed door suitable for entrances facing outwardly.
It withstands very heavy air or wind pressures or depressions without leaving its guides, without undergoing wear or deformations, and remaining therefore unchanged for many years.
Maximum sizes 9000 x 7000
Wind resistance on standard configuration: Class 2

### CHASSIS

× **General:**
- Self-supporting, it must be fastened to a structure or wall.

| Elements | Material | Details |
|---|---|---|
| **Foot** | Galvanized steel sheet folded on U-shape | Inside, it has two reinforcements of omega-shaped folded sheet, granting a greater stiffness and strength. |
| **Ramps** | Polyamide | At the bottom of the foot, for centring the curtain when door closed |
| **Angle units** | Aluminium | Rounded shape to avoid frictions and wear to the curtain. |
| **Base** | Galvanized steel sheet | It has holes for fastening to the ground. |
| **Fastening** | Anchoring suitable to the kind of support (metallic, chemical dowels, etc.). | Fastening to the ground and, according to the height and the required wind pressure, several intermediate fastenings on walls or on a resistant structure. |
| **Finishing** | Painted grey RAL 7046 or another RAL colour chosen by the customer. | |

× **Head**:

| Element | Material | Details |
|---|---|---|
| **Crosspiece** | Galvanized steel sheet | Box-shaped with an omega-shaped reinforcement located on the inner wall |
| **Side supports** | Galvanized steel sheet | It has housings for the ball bearings supporting the shaft. Welded to the crosspiece. |
| **Central supports** | Galvanized steel sheet | One for each pulley. There are housings for the centring ball bearings. Welded to the crosspiece. |
| **Shaft** | Aluminium pulleys | Of Ø110mm with reinforcement radius and hollow central knot with keyway. |
| | Solid profile of galvanized steel | Of Ø25.4mm or Ø31.75mm, depending on the size of the door, with keyway along its entire length. |
| *** The whole unit makes up a very strong beam that, resting on the feet-guide, supports the weight of the canvas and the lifting mechanism (gear motor, shaft, pulleys and belts).** | | |
| **Fastening** | Anchoring suitable to the kind of support (metallic, chemical dowels, etc.). | It is fixed on the lintel or a resistant structure to keep the vertical position and to avoid the bulging or movements due to the shaft rotation. |

| Structure options |
|---|
| ✓ Stainless steel AISI 304 o 316 |
| ✓ Assembly through the outside of the void |

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## CANVAS

| Element | Mass ($kg/m^2$) | Work temperature (ºC) | Characteristics |
|---|---|---|---|
| **Canvas** | 0.95 | -20…+70 | Base of high strength polyester technical fabric, coated with dyed PVC. |

| Material | | | Characteristics |
|---|---|---|---|
| **Side reinforcements** | Width ≤ 4500mm | Composite tubular profile of fiberglass and polyester | Different diameters and thicknesses depending on the resistance required. For higher wind types, they may be made of steel. |
| | Width ≥ 4500mm | Tubular profile of galvanized steel | Different diameters and thicknesses depending on the resistance required. |
| **Skirting board** | Composite tube of fiberglass and polyester | | To support the contact band. |
| **Fitting to the ground** | Bottom bag of polyester coated with PVC | | Yellow with black diagonal stripes and with Velcro® opening system for access to the contact band, and Radio Band transmitter. |
| **Welding** | All welding through high frequency including windows. | | |
| **Finishing** | Bright lacquer on both faces; colour to be chosen from a wide range. | | |

| Colours | Colours similar to RAL | | | | | | |
|---|---|---|---|---|---|---|---|
| **Reaction to fire M2** | Red 3002 | Yellow 1003 | Green 6026 | Blue 5005 | Grey 7016 | Grey 7040 | White 9003 |
| **Reaction to fire M3** | Ivory 1014 | Orange 2004 | Orange 2002 | Black 9005 | Brown 8016 | Grey 9006 | |

| Material | | Characteristics |
|---|---|---|
| **Interior panel reinforcements** | Black PVC of 3 mm | Welded to the canvas. Reinforced with polyester fabric to avoid wear through friction. |
| **Caps** | Rubber | Located at the reinforcement ends to eliminate noises and frictions of the canvas against the guides. |
| **Lifting belts** | Polyester | Width: 47mm<br>Thickness: 1,25mm |
| **Belt guides and lock clamps** | Polyamide Akulon | For very large doors, the belt guides can be manufactured in galvanized steel. |

| | Components | Composition |
|---|---|---|
| **Resistant characteristics** | Wind resistance (supervision by OT) | **Standard:** Class 2 (95 km/h)<br>**Optional:** Class 3 and 4 (120 and 140 km/h) |

| Canvas options |
|---|
| ✓ PVC windows. Transparent glass quality 1 mm thick. Positive temperatures. |

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## MOTORIZATION

| Element | Characteristics |
|---|---|
| **Operator** | Irreversible gear motor for intensive use Angel Mir, including position switches driven by the output shaft of the reducer. |
| **Location** | On one side of the head. |
| **Position switches** | Mechanical. |
| **Safety brake** | External. |
| **Shaft** | Solid with output for elastic connection between the motor and the shaft to absorb the vibrations and to increase the motor reliability. |
| **Electro brake** | For precise positioning and canvas locking. |
| **Unlocking** | Through handle. |
| **Manual drive** | Through crank. |
| **Voltage in volts**<br>**Frequency in Hz** | 230 / 400 V three-phase.<br>50 Hz |
| **Power** | 0.75…5.5 CV / 0.55…4.05 kW, depending on door sizes. |
| **Protection IP** | IP 54 |

| **Motor options** |
|---|
| ✓ Front motor with chain drive. |
| ✓ Motor protection, with or without lid, made of galvanized steel sheet, painted same colour as the door. |
| ✓ Special voltages and frequencies. |
| ✓ Moisture-proof protection joint for the electro brake. |

| **Control panel** | |
|---|---|
| **Model** | RSP |
| **Keys on exterior lid** | Switches for opening, closing and emergency stop. Voltage breaker. |
| **Control logic** | Programmable relay. |
| **Power** | Contactors. |
| **Protection against overvoltage** | Thermal relay. |
| **Display registering status and information** | Reports on: position, kind of failure and operation counter.<br>Switches for opening and closing by maintained contact, and basic programming. |
| **Control box IP** | Painted steel, with input/output cable glands. |
| **Protection** | IP 65 displaced with cable glands.<br>IP 55 in case of assembling at the door foot. |
| **Voltages** | Power supply: 230 / 400 V three-phase.<br>Manoeuvre: 24V |
| **Control panel electrical installation to motor and to fixed elements on the feet.** | Protected by aluminium removable channel fixed to the door foot on plastic supports. |

| **Control panel options** |
|---|
| ✓ Special voltages and frequencies. |
| ✓ Fiberglass control box with increased IP or stainless steel. |

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## OTHER CHARACTERISTIC ELEMENTS / QUALITIES / OPTIONS

- **Door electrical data**

The voltage wiring up to the panel unit has to be completed by a licensed electrician and must be protected according to the existing rules and standards.

| STANDARD electrical characteristics | |
|---|---|
| **Voltage V**<br>**Frequency Hz** | 230/400V three-phase.<br>50 Hz |
| **Power kW** | 0.65…4.15 kW, according to door size. |
| **Protection** | IP 54 |

For other voltages and frequencies, please ENQUIRE

| Other characteristics | |
|---|---|
| **Work temperature** | . Standard: +5…+50ºC<br>It cannot be used in cold stores with negative temperature.<br>If assembled outside, it can withstand, occasionally, negative temperatures down to -5º in places where there is not risk of icing. In this case, no transparent peepholes can be added. To warn before manufacturing. |
| **Special sizes** | Please enquire. |

| Safety | Used procedure |
|---|---|
| **Passage** | Photocell with transmitter – receiver located on the jambs of the structure. |
| **Anti- crushing** | Wireless contact band on main edge. |
| **Anti-dragging** | Transmitter – receiver photocell located on the jambs of the structure. (UNE EN12445:2000 / 4.1.2, UNE-EN 12453: 2000, 5.1.2) |
| **Vision** | Bottom of the canvas painted with safety stripes (diagonal yellow / black). |
| **Manoeuvres** | Intermittent lights indicating the manoeuvre: exterior and interior. (UNE-EN 12453: 2000, 5.1.3 c) |
| **Motor** | For manual operation, it must be driven by crank or chain. |
| **Safety belt** | Unsolicited, in red. Centred on the canvas. |
| **Spring safety system** | It prevents the canvas falling in case an element of the suspension breaks. |

| Safety options |
|---|
| ✓ Photocell curtain protecting the entire door width and up to 2500 mm height assembled inside the guides. |

- **Door speeds**

| Speeds (m/s) * | Opening | Closing |
|---|---|---|
| | 0.8 m/s | 0.8 m/s |

* * For large doors, speeds may be different. Please inquire for specific cases.

* For other speeds, please ENQUIRE.

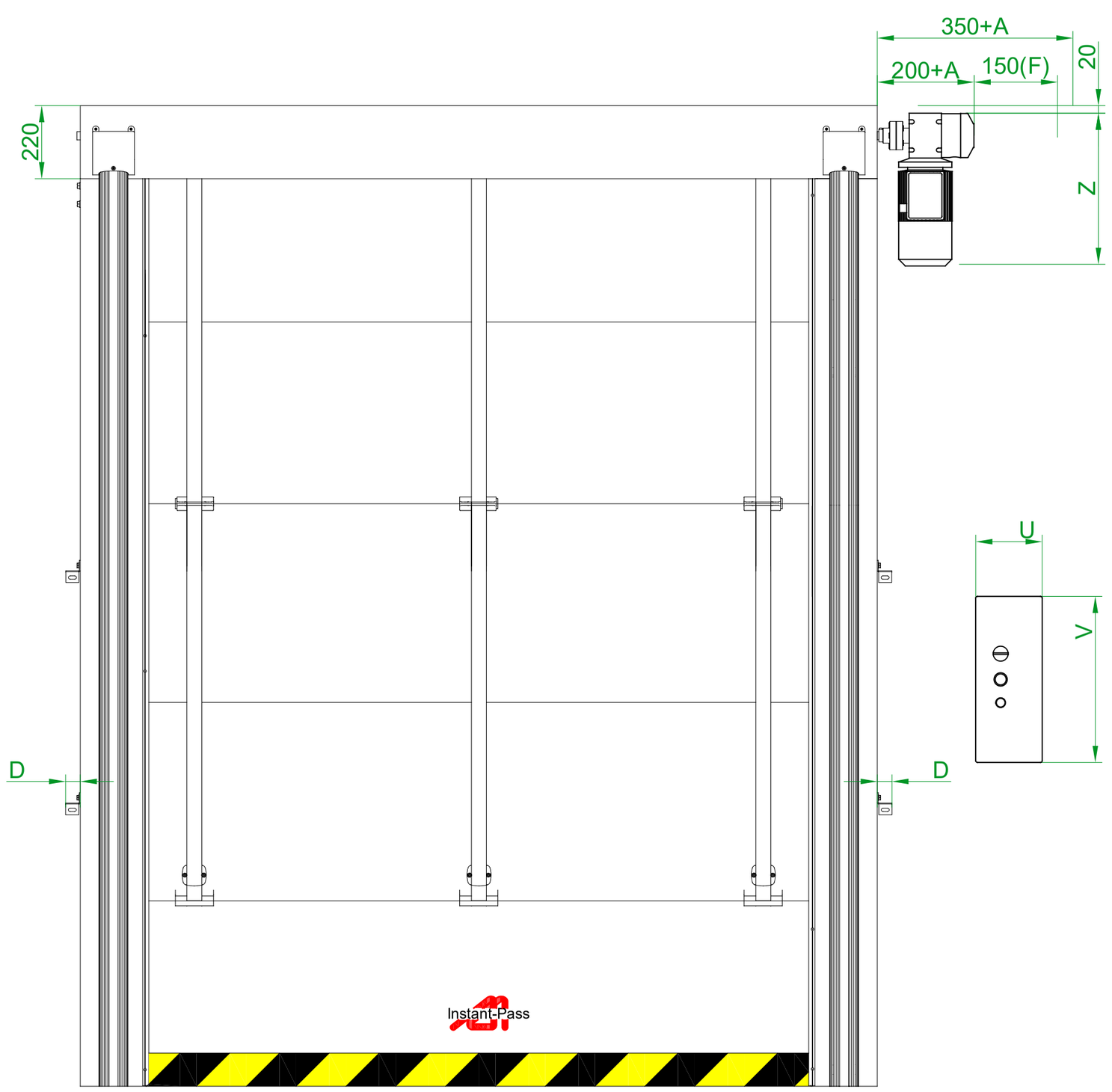
| General options |
|---|
| ✓ ATEX certified doors for explosive environments (dust, paint or gas). |

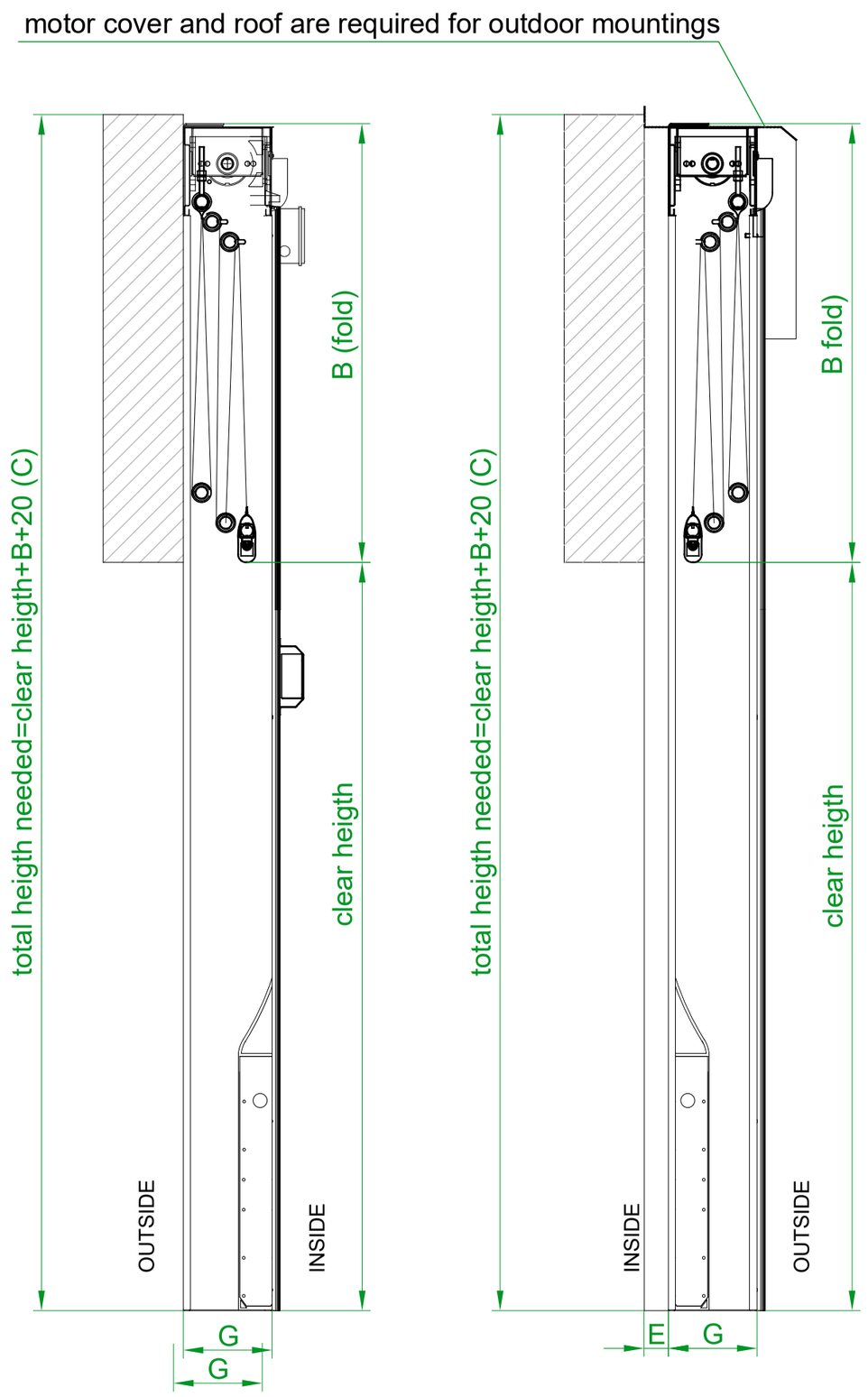
*For special sizes, please ENQUIRE.

## CERTIFICATES AND STANDARDIZATIONS

Our doors are manufactured according to the UNE-EN 12453:2001 standard and meet the 98/37/CEE, 89/336/CEE, 89/106/CE y 73/23/CEE harmonization directives. They are tested and certified by a notified body, in compliance with the 13241-1 standard.

**The information contained in this descriptive text is general for the referenced product. In no case is it binding or contractual. Portes Bisbal S.L. reserves the right to modify the features herein.**

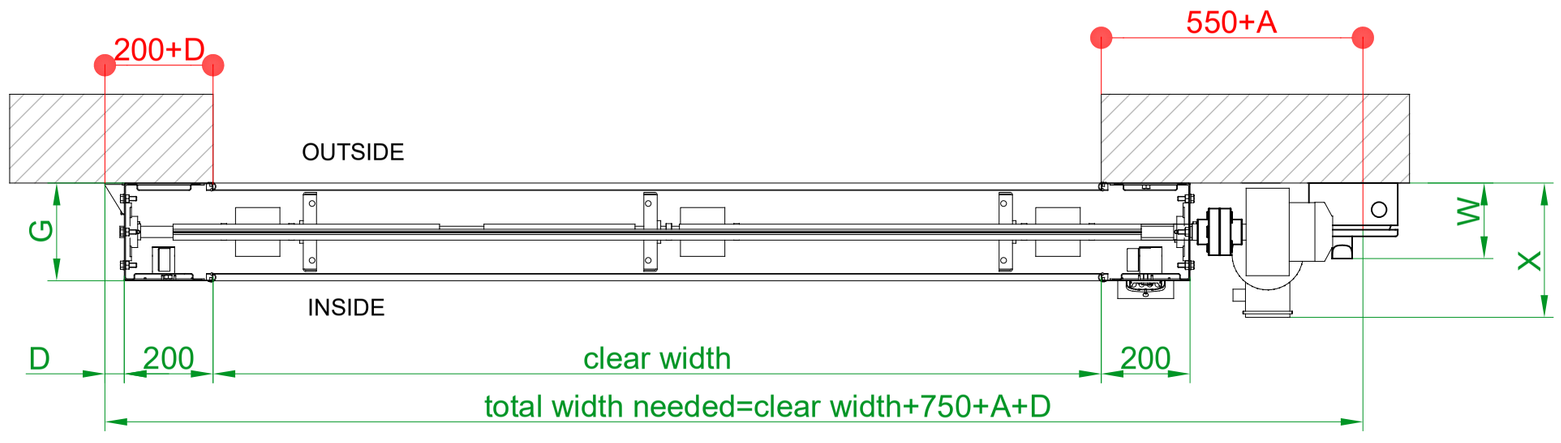


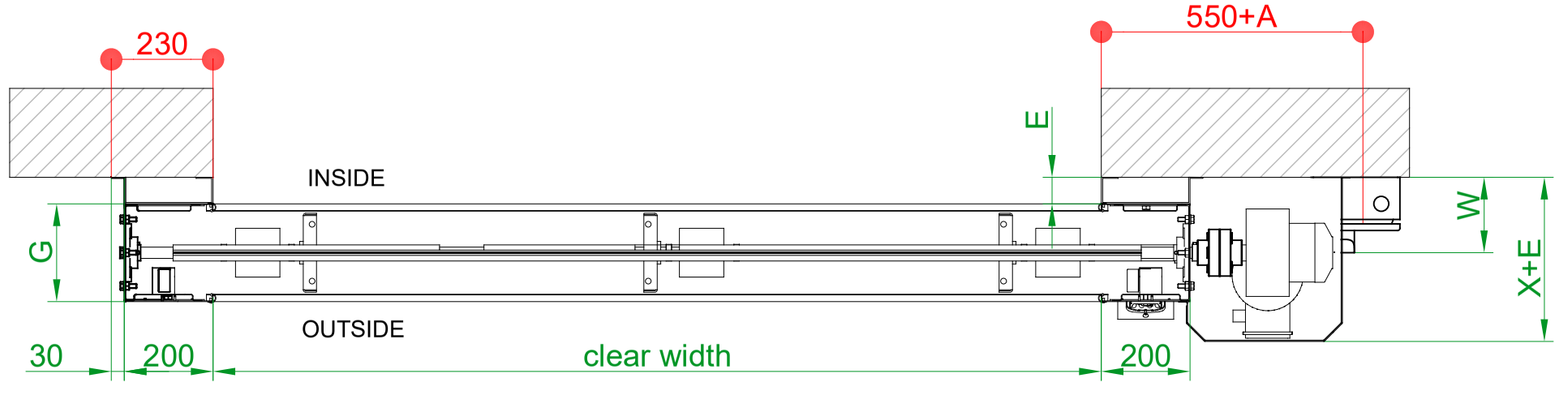




OUTDOOR INSTALLATION




INDOOR INSTALLATION




OUTDOOR INSTALLATION

| | |
|---|---|
| C | Installation allowance aprox 20 mm. |
| Mounting brackets | |
| D | -For doors up to 25m² D=46<br>-For doors over 25m² D=100 |
| Pre-frame for outdoor assemblies | |
| E | -For clear width up to 4000mm. E=60<br>-For clear width over 4000mm. E=90 |
| F | Space needed to regulate the limit of stroke Aprox.150 MM. |
| A,B,G, X,Z | Consult table |

ELECTRICAL BOX

| MODEL | DIM. U x V x W |
|---|---|
| RSP / RSP 16A | 200 x 500 x 160 |
| RSP INOX | 300 x 400 x 150 |
| RSP PLM | 330 x 430 x 200 |

| | |
|---|---|
| Model: | **Instant Pass with lateral motor** |
| Maximum dimensions: | 9000x7000 (width x heigth) |
| mounting conditions: | inside/outside |
| Motor: | Pact |
| Electrical supply: | three phase |
| For special dimensions consult our technical office | |

| | Nombre | Fecha |
|---|---|---|
| Dibujado | ofi.tecnicah | 12/09/12 |
| Comprobado | | |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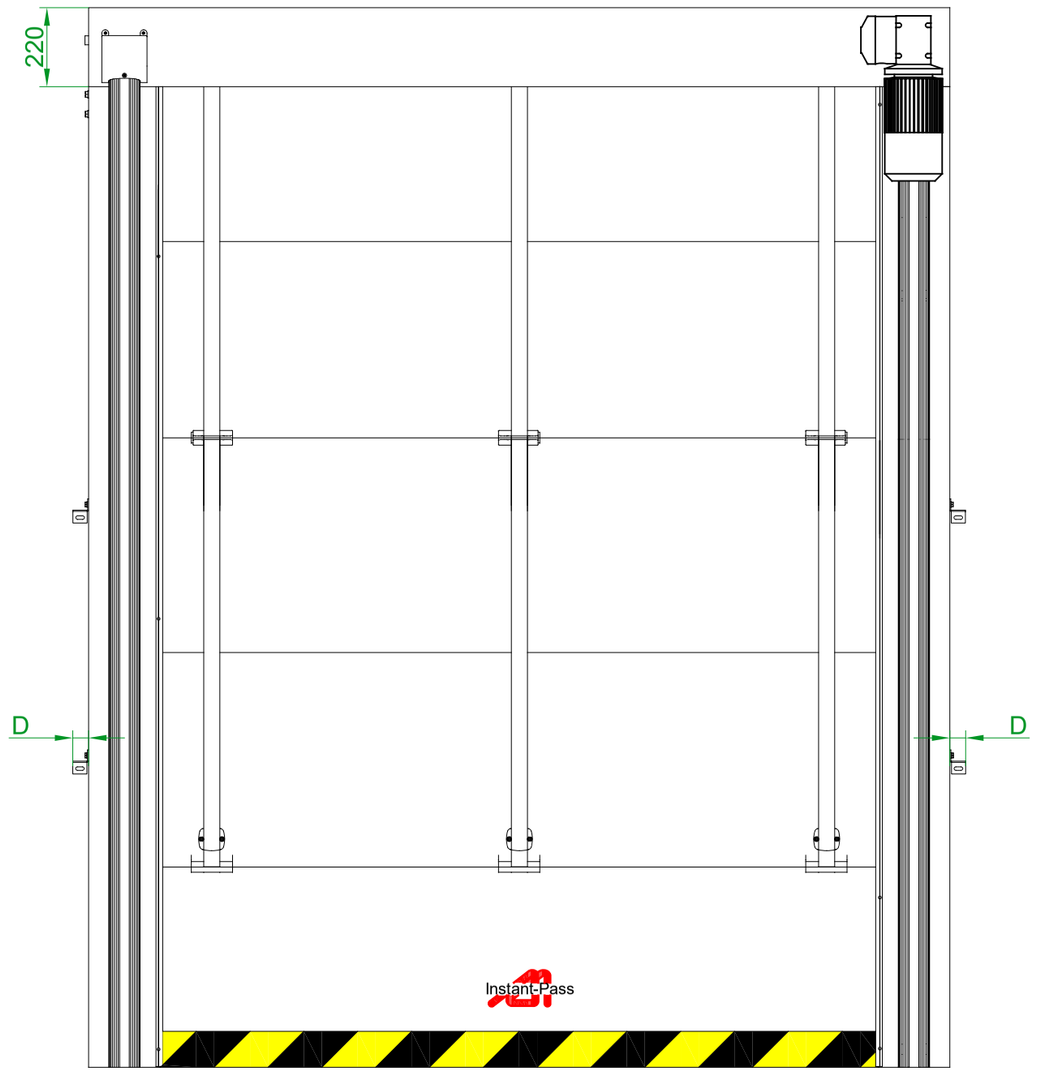
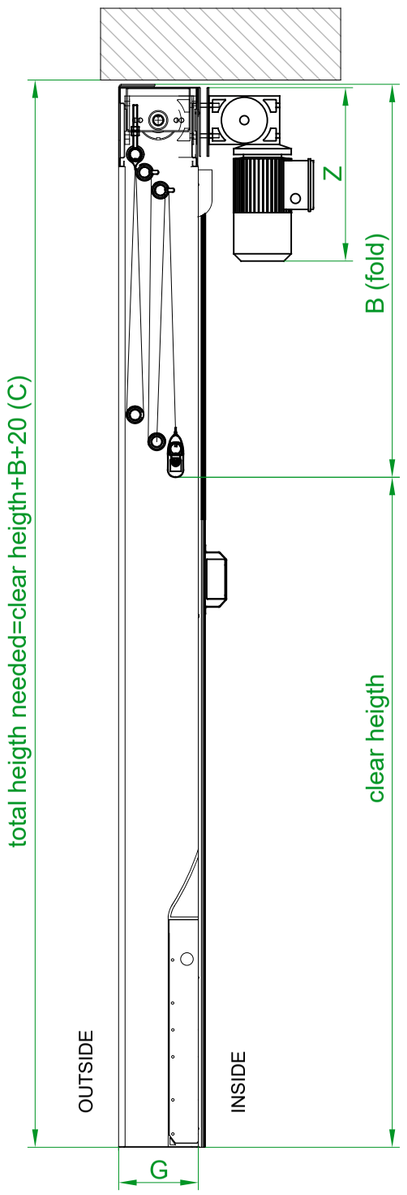
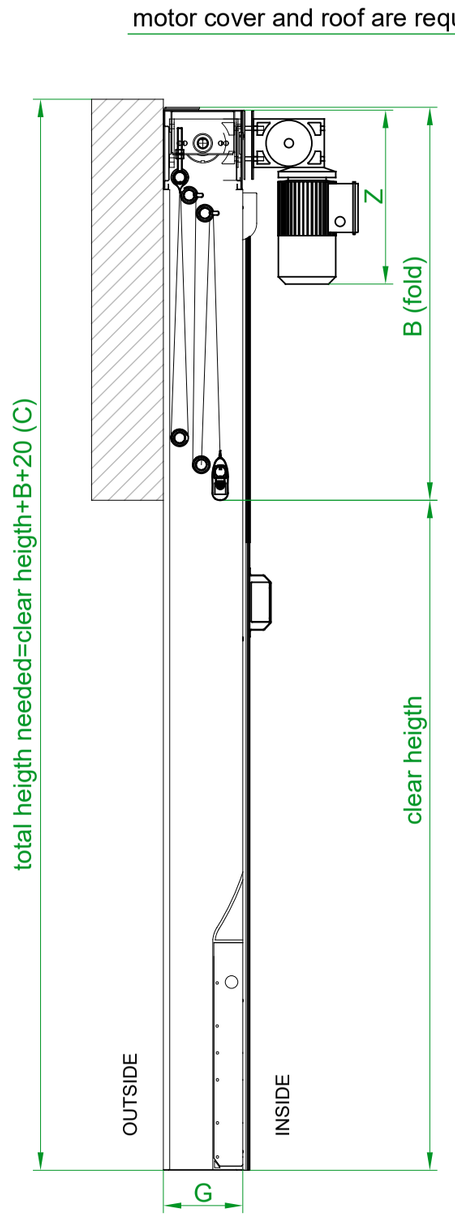
| | | | |
|---|---|---|---|
| Familia: Rápidas | | Título: Instant Pass | |
| Tipo: Instant Pass | | Código: | |
| 1:1 | Material: | Conjunto al que pertenece: xxxxxx | Hoja 1 de 3 |




MOUNTED BETWEEN WALLS

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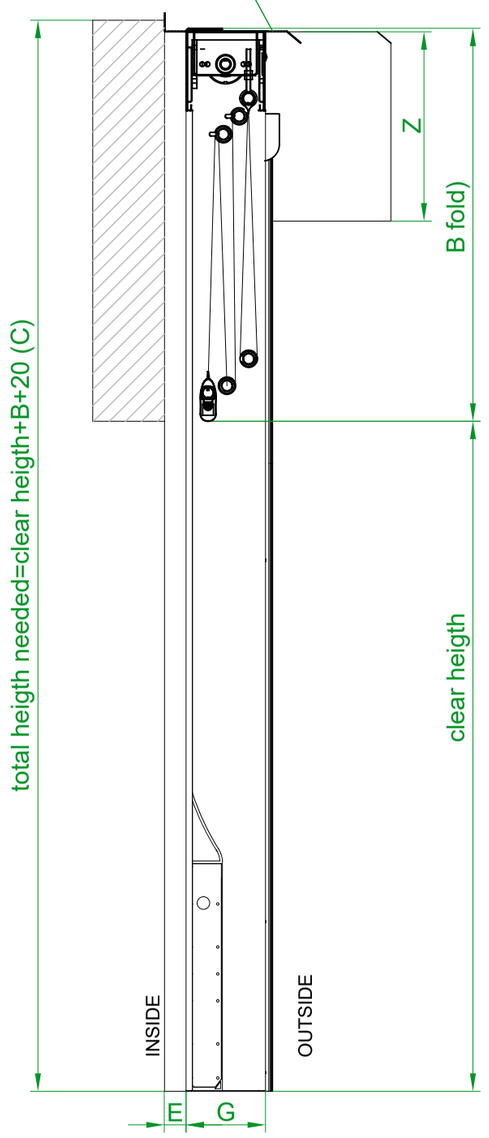


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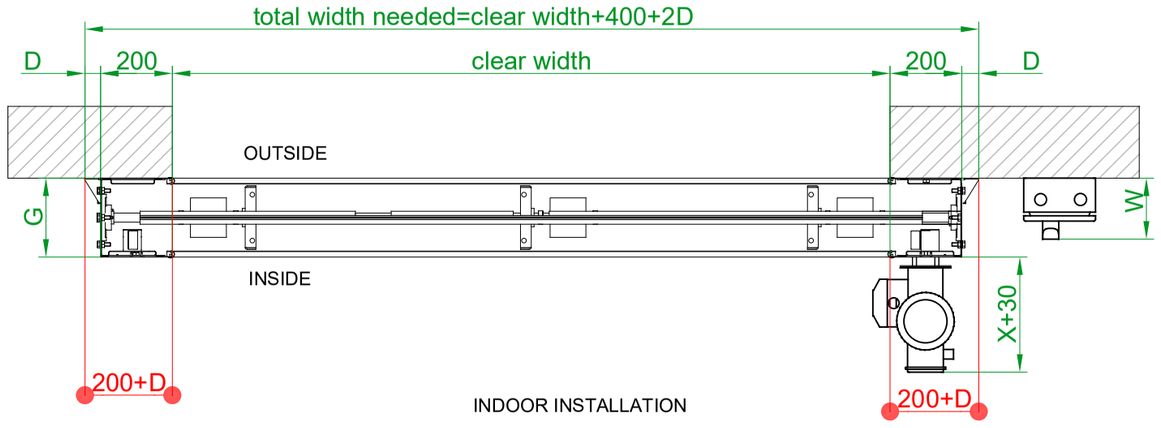


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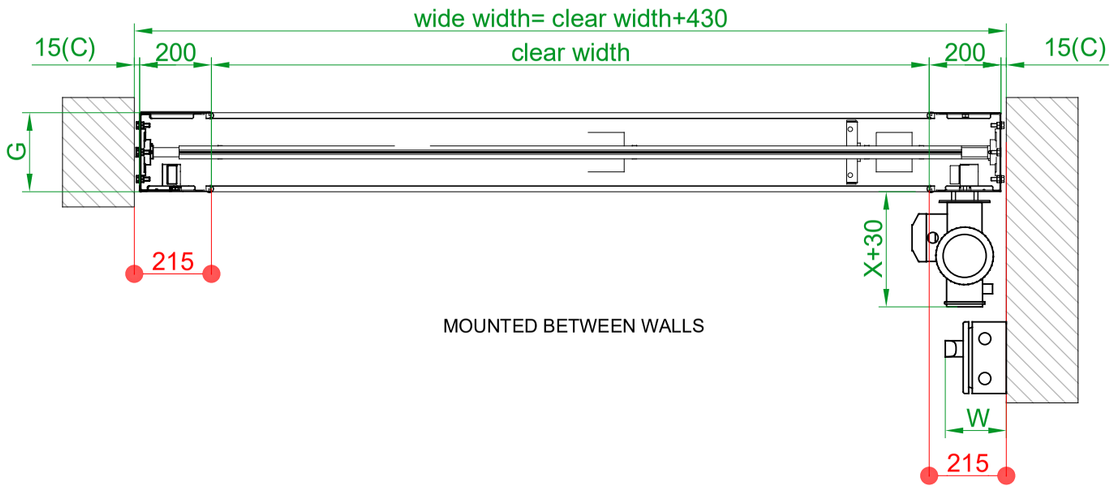


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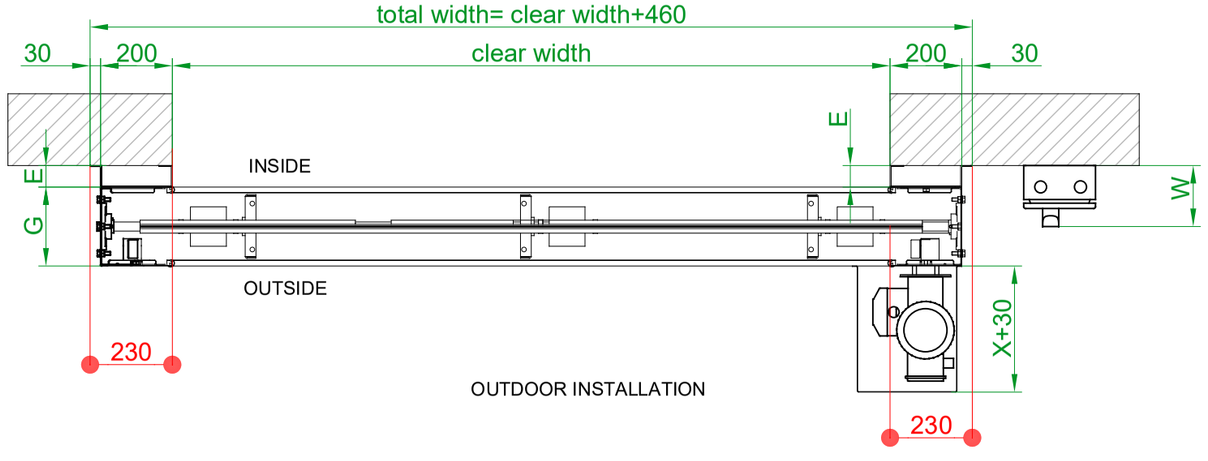


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| Model: | **Instant Pass with frontal motor** |
| Maximum dimensions: | 9000x7000 (width x heigth) |
| mounting conditions: | inside/outside/between walls |
| Motor: | Pact |
| Electrical supply: | three phase |
| For special dimensions consult our technical office | |

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