

Product datasheet

High speed door
Albany HS902GAT

ASSA ABLOY

ASSA ABLOY Entrance Systems

The global leader in
door opening solutions



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Technical facts

Features

| | |
|--------------------|--|
| Area of use: | Inside |
| Structure: | Galvanized steel |
| Max size: (W x H)* | 4000 mm x 4000 mm |
| Colours: | 8 standard colors - white, yellow, green, orange, red, gray, black, blue |
| Safety: | Photocells in side columns Flexible soft bottom edge including wireless edge activator Break-away and self-repair function |
| Options: | Different vision options are available |

* Other sizes may be available on request

Performance

| | |
|----------------------------|---|
| Operating speed: | Opening: up to 1,2 m/s (optional 2,0 m/s) Closing: 0,5 m/s |
| Wind load resistance: | Class 1 (300 Pa (N/m ²)) maximum wind load while closing 50 Pa (N/m ²). |
| Water penetration: | Class 2 (50 Pa (N/m ²)) |
| Air permeability: | Class 2 (12 m ³ /m ² /h at 50 Pa)* |
| Thermal transmittance: | 6,02 W/(m ² K) |
| Lifetime expectations: | 1.000.000 cycles |
| Temperature working range: | 5 °C to +40 °C |

* installed on the outside of the cleanroom.

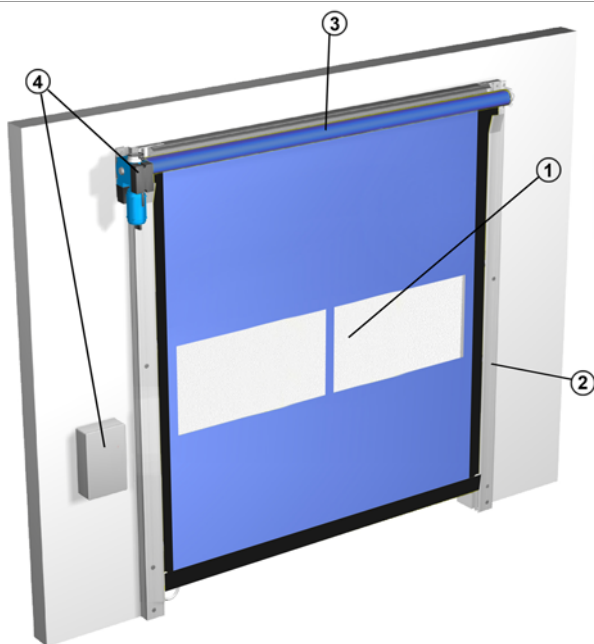
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1. Description

1.1 General

The Albany HS9020GAT is airtight and suitable for inside environments, type cleanroom. It offers perfect sealing thanks to a unique design. The Albany HS9020GAT requires very little space and protects your environment against drafts, humidity, dust and dirt.



The Albany HS9020GAT high speed door has 4 primary parts:

- 1) Door curtain
- 2) Side columns
- 3) Header box
- 4) Operating system

1.1.1 Standard

The Albany HS9020GAT high speed door is supplied with the following specifications as standard:

| | |
|---------------|--|
| Door curtain: | 900 g/m ² coloured PVC Self repairing function |
| Header box: | Galvanized steel drum cover Galvanized steel operator cover |
| Side column: | Galvanized steel side column covers |
| Frame: | Galvanized steel |
| Safety: | Photocells in side columns Flexible soft bottom edge including wireless edge activator Break-away and self-repair function |
| Operation: | Operator + control unit |
| Colours: | 8 standard colors - white, yellow, green, orange, red, gray, black, blue |

1.1.2 Options

Albany provides a wide range of options and accessories to customise the Albany HS9020GAT high speed door to any customer's needs.

| | |
|------------|--|
| Operation: | Access and Automation Monitoring System |
| Windows: | Small windows or; Vision panels |

1.2 Door curtain

1.2.1 Construction

The door curtain is constructed from one single piece of PVC fabric. The door curtain rolls up above the door opening and requires little space.

Top

The top of the fabric is connected to a fabric roll, located in the header box above the door opening.

The top edge of the door curtain presses against the bottom of the drum cover, creating an improved sealing.

Bottom

The flexible bottom edge of the door curtain does not contain any stiffeners, making the door curtain completely safe as the curtain moulds itself in case a person is trapped below the closing door.

The bottom edge contains ballast, creating an improved sealing to the floor.

Side

The left and right sides of the door curtain are constructed with unique bearing strings that keep the door curtain tensioned under wind load, but minimises the friction of the door curtain through the side columns. If the door is hit by a vehicle, a number of these bearing strings are pulled out of the side column. The self repair function acts as a zipper to put the bearing strings back in the side column.

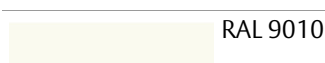
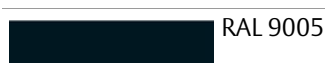
1.2.2 Material

Fabric type

- 900 g/m² colored PVC,
- high resistance

1.2.3 Colours

The Albany HS9020GAT high speed door is available in 8 standard colors fabric colours. The RAL-colours are as close as possible to the official RAL HR collection. Max. deviation is 1,0 DE.



1.2.4 Windows and vision panels

To increase the admission of daylight or to improve the visibility, the door curtain can be equipped with windows or vision panels. Windows have fixed sizes and are located on a pre-defined grid. A vision panel is always located on the full width of the door curtain with its centre height at the industry of standard 1600 mm.

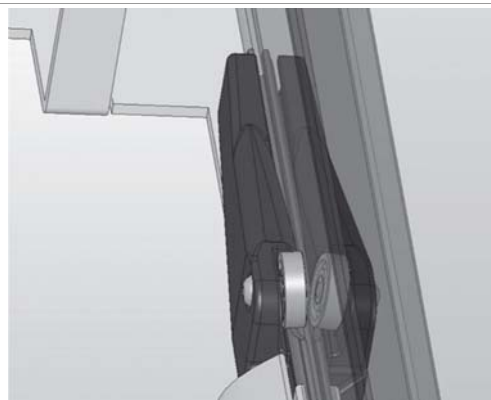
Vision panel

Windows



1.2.5 Self repair system

The high speed doors are equipped with an automatic repair system. If a door is hit by a vehicle during operation, the resistant door curtain absorbs the impact and releases itself from its side guides without damage. The door reinserts itself automatically within the next open and close cycle. This unique feature makes the door crash-resistant without sustaining damage, reducing production downtime and maintenance.



1.2.6 Bottom edge

The bottom edge is a flexible bag that contains a wireless edge activator. When the door is hit by a vehicle, the curtain folds around the object and the contacts within the bottom edge make a closed circuit. The wireless signal is then sent to the operator to stop the door movement immediately.

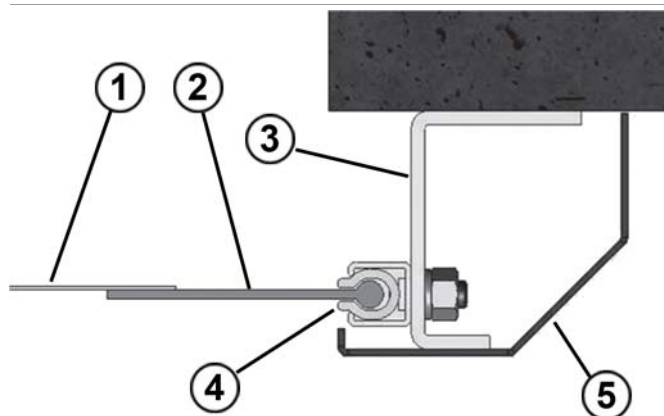


1.3 Side columns

The side columns guide the door curtain up and down. This guidance is a plastic-to-plastic connection, which makes lubrication essential.

1.3.1 General

The side columns are part of the frame that also contains the header box. This frame is made of 3 mm thick galvanized steel tubes. The side columns are connected directly to the wall.



- 1) Door curtain
- 2) Lateral retaining strap (BEAD)
- 3) Frame (37 mm x 52 mm x 3 mm folded steel)
- 4) Low-friction polyethylene side guide inside a steel rail
- 5) Cover (galvanized steel)

1.4 Header box

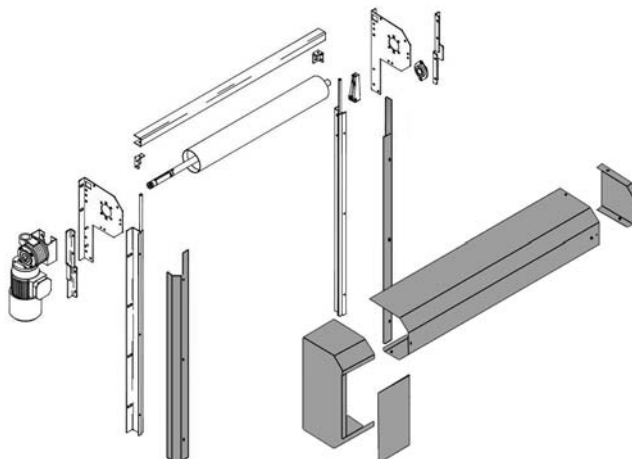
1.4.1 Fabric roll

The fabric roll is installed in the header box above the door curtain. Its function is to roll up or down the door curtain by means of the operating system. The door curtain is tensioned by its own fabric weight.



1.4.2 Covers

To improve the airtightness of the Albany HS9020GAT high speed door, this door is delivered with covers on the side guides, operator and header box.



1.5 Operating system

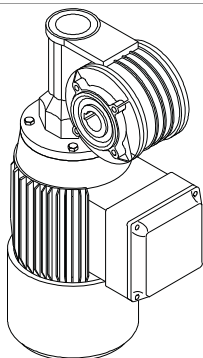
1.5.1 General

The Albany HS9020GAT high speed door is always operated electrically. The operating system is a combination of an operator and a control unit. The operator opens the door with an electric engine. The door closes under the weight of the door curtain. The operator secures a safe closing speed.

1.5.2 Operator

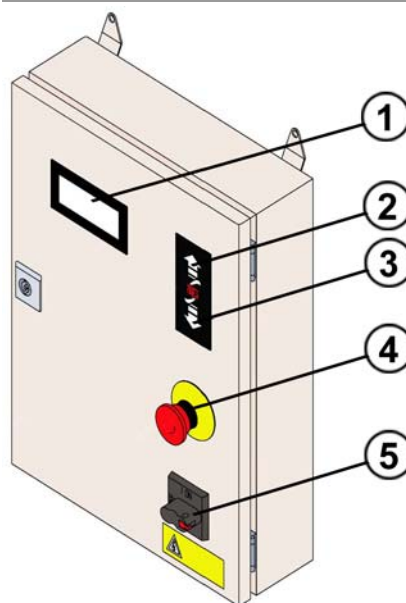
Exceptional reliability and smooth operation is ensured by a motor driven by a frequency inverter. This technology ensures a soft start and stop, which increases the longevity of the motor considerably. It also allows faster opening/closing speed. This motor delivers reliable operations around-the-clock. The operator is always combined with a control unit.

The operator drives the fabric roll to open or close the door. In case of a main supply failure, the operator can be disconnected and the door can be opened or closed manually using the hand crank.



1.5.3 Control unit

The control unit is installed beside the door. It has impulse UP and DOWN buttons, an emergency stop mushroom button and a mechanical mains switch.



- 1) Display
- 2) UP button
- 3) DOWN button
- 4) Emergency stop
- 5) Mechanical main switch

1.5.4 Access and automation

Albany offers a wide range of functions that allow advanced opening and safety control.

1.5.4.1 Basic control functions

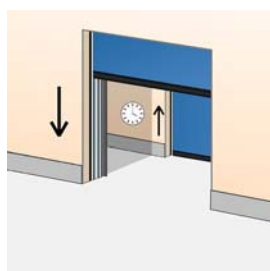
Interlocking



Developed for climate control or safety; If door A is open, door B cannot be opened. If door B is open, door A cannot be opened. An interlocked door can remember an up-command, if selected via a micro switch. Optionally an external locked switch can be installed to deactivate it.

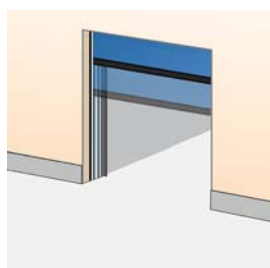
- Function Interlock operating (switch interlock ON/OFF delivered with priority door)
- Switch interlock on/off (requires interlock function)
- Switch interlock on/off with key (requires interlock function)

Airlock



Developed for climate control or safety: Other than the interlock, door B will open automatically when door A is closed. Circuit card Installed in control unit. Optionally an external locked switch can be installed to deactivate it.

Reduced opening

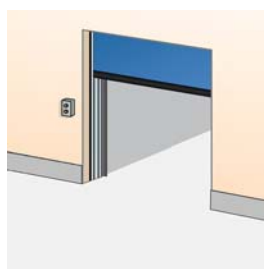


When people pass through the door, it may be unnecessary to fully open a door. A manual (pedestrian) command can trigger a reduced door opening, while a radar or magnetic loop still triggers a full door opening. Pre-fitted micro-switch to be activated in control unit.

- Function Two opening heights I/II with manual selection (switch included)
- Function Two opening heights I/II with automatic selection (2 different opening impulses)

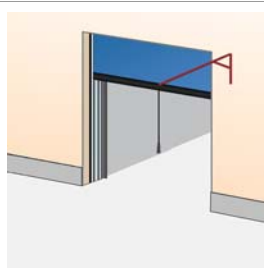
1.5.4.2 External control functions

External push button box



An extra control box is installed outside the building or inside close to the door if the main control unit needs to be installed away from the door opening. Usually combined with reduced opening. Installed on the inside or outside wall beside the door.

Pull-rope switch



A pull-rope switch above the door opening can be operated from e.g. a forklift truck. Pulling the rope opens the door. Installed on the inside construction above the door.

- Pull down switch complete 5 m cord
- Pull switch bracket in galvanised steel – L 3000 mm
- Pull switch bracket in painted steel – L 3000 mm
- Pull switch bracket in stainless steel – L 3000 mm

Remote control

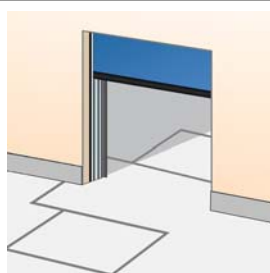


A hand-held radio transmitter allows door operation from a vehicle or any position within 50-100 meters from the receiver and aerial at the door. For closing, the door can be provided with a photocell beam. Receiver installed in control unit, antenna installed on the wall beside the door.

1.5.4.3 Automatic control functions

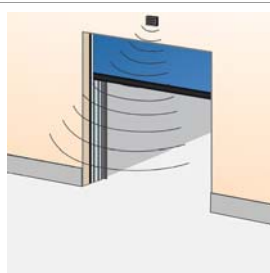
- Function Auto/Manual (includes switch on the control box)
- Function Manual closing with opening/closing using a common manual command (e.g. one single pull rope opens and closes the door)
- Function Manual closing with separate impulse (e.g. 2 buttons up and down)

Magnetic loop



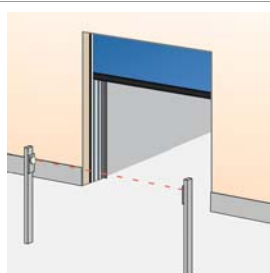
A sensor in the floor detects a metal object (usually forklift trucks, pallet trucks) and opens the door automatically. This is an ideal solution for frequent vehicle traffic. Installed on the outside, inside or both sides of the door in the floor.

Radar



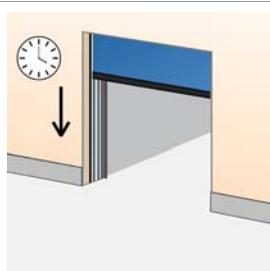
An infrared sensor above the door detects an object (person, vehicle) within a specified distance from the door and opens the door automatically. This is an ideal solution for frequent vehicle or personal traffic. Often combined with automatic closing. Installed on the inside or outside wall above the door.

Photocell open door



A set of photocells on pillars, on each side of the door. When a person or vehicle passes between the photocells, the beam is interrupted and the door opens. Photocells installed on pillars, away from the door.

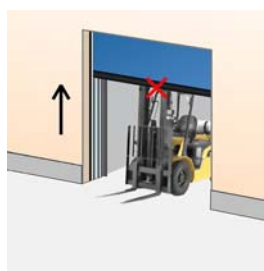
Automatic closing (standard)



A programmable timer that closes the door after a specified time, counted from either the fully open position and/or from passing through the photocell beam. Usually also a switch on the control unit is used to turn to manual closing. Adjustable micro switches in control unit.

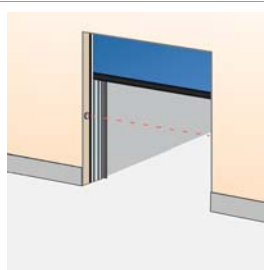
1.5.4.4 Safety functions

Wireless edge activator (standard)



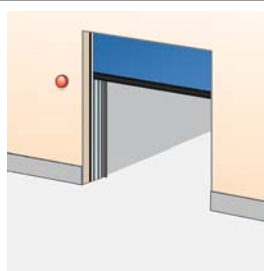
All doors are equipped with an edge activator. A wireless edge activator in the bottom seal detects any obstruction under a closing door and reverses the door. Installed in the bottom edge.

Safety photocells 1-channel (standard)



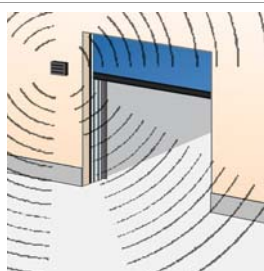
A set of a photocell transmitter and receiver is installed in the door opening. If the photocell beam is interrupted during closing, the door will stop in less than 30 mm and reverse to the fully open position. Installed in the door opening 300 mm from floor level.

Warning lights - Red



A red warning light on each side gives information on the current door behaviour. Flashing light seconds before and during door movement. Installed on the inside and outside wall beside the door.

Acoustic signal



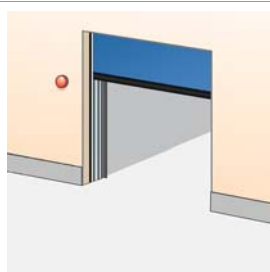
An acoustic signal is given, starting ...ms before the door begins to close and continues until the door is fully closed. Installed on the inside and outside wall beside the door.

- Acoustic signal 24VAC 80 dB at 1 meter (horn when door is moving)

1.5.4.5 Lights

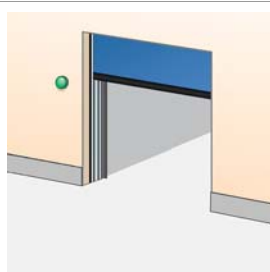
- Standard function flashing light
- Standard function flashing light with pre-warning before closing and opening

Warning lights - Orange



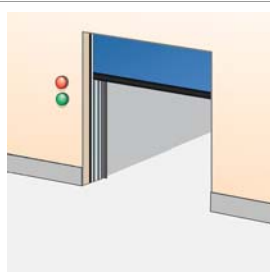
An orange warning light on each side gives information on the current door behaviour. Flashing light seconds before and during door movement. Installed on the inside and outside wall beside the door.

Warning lights - Green



A green warning light installed on each side of the door indicating the open position of the door by continuous light signal.

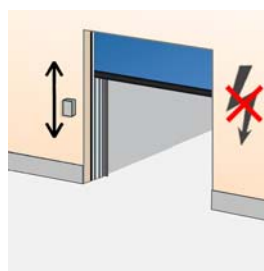
Traffic lights - Red & Green



If traffic through a door needs to be directed; two red and two green traffic lights can be installed to indicate traffic direction. From the side where a vehicle is first detected to approach the door, the green traffic light comes on. The opposing side shows a red traffic light. Traffic from this direction must give way to the other. Usually installed in e.g. parking garages. Installed on the inside and outside wall beside the door.

1.5.4.6 Additional functions

UPS battery backup



In case of main supply failure or emergency situations, it may be necessary to be able to open the door. The UPS battery stores enough power for one emergency opening cycle. Installed on the inside wall beside the door.

- Kit UPS Interface, automatic opening in case of power failure
- Kit UPS Interface, semi-automatic in case of power failure

1.5.5 Monitoring systems

As an option on all our products, a Monitoring System can be installed. This system helps to ensure efficiency and security in daily operations. All doors or docking stations are connected to the Monitoring System's server, which gives the opportunity to supervise, monitor and report a wide variety of aspects in a facility.



1.5.5.1 Saving energy

A monitoring system reduces energy costs and contributes to a better environment. Energy is lost every time a door is open. If a door is open when no truck is at the bay, even more energy is lost.

A Monitoring System automatically ensures that no door will open unless there is a truck at the bay and even set it to close when there an activity is delayed.

1.5.5.2 Security enhancement

Closing and locking doors is an obvious daily routine. However, checking this manually can be time consuming in a busy facility.

A Monitoring System can automatically ensure that all doors are closed and locked when they need to be. It can also activate all doors and locks from its remote location, and give a real-time overview of the building's situation.

1.5.5.3 Dock management

A good way to increase throughput and thereby efficiency at a logistics facility is to reduce the time of having no truck – or the wrong truck – at a loading bay.

A Monitoring System makes visible – in real-time – which bays are occupied or free, and for how long. It makes it possible to reserve bays for docking activities and to inform drivers via SMS. Since it incorporates information from cameras and other inputs (RFID, card readers, etc.), the system stays updated in real-time.

1.5.5.4 Facility management

The Monitoring System gives a real-time service status for all your door and docking equipment. If an error code occurs, the Albany service organisation is automatically notified, and will respond quickly. Other maintenance information can easily be integrated, further reducing the overall costs.

2. Specifications

2.1 Daylight width and height

The standard Albany HS9020GAT high speed door is delivered in the following size range:

Standard door sizes*

| | Daylight width | Daylight height |
|-------|----------------|-----------------|
| Min.: | 1000 mm | 2000 mm |
| Max.: | 4000 mm | 4000 mm |

* Other sizes may be available on request

2.2 Fabric specifications

| | Coloured fabric | Vision panel |
|---------------------------|----------------------|-------------------------|
| Material | Reinforced PVC | PVC |
| Thickness | 0,8 mm | 2,0 mm |
| Weight | 900 g/m ² | 2,5 kg / m ² |
| Tensile strength (kN/5cm) | 4,0 L / 3,5 W | 1,6 |
| Tearing resistance | 600 N (DIN 53363) | 100 N (DIN 53515) |

2.3 Windows

Dimensions: W x H: 640 mm x 580 mm.

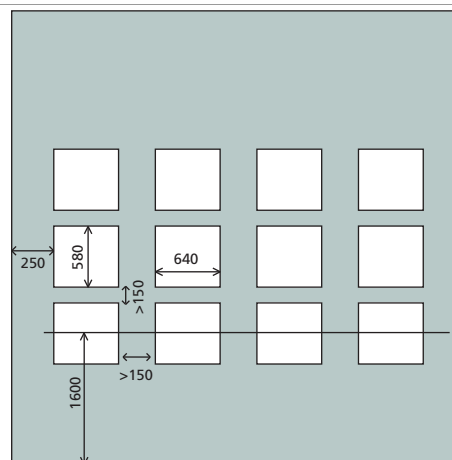
Combinations: Any combination of rows is possible.

2.3.1 Required Daylight Width

| DLW | Available no. of columns |
|-------------------|--------------------------|
| 1140 mm – 1929 mm | 1 |
| 1930 mm – 2719 mm | 2 |
| 2720 mm – 3509 mm | 3 |
| 3510 mm – 4000 mm | 4 |

2.3.2 Required Daylight Height

| DLH | Available no. of rows | CC |
|---------|-----------------------|---------|
| 2040 mm | 1 | 1600 mm |
| 2770 mm | 2 | 2330 mm |
| 3500 mm | 3 | 3060 mm |



2.4 Vision panels

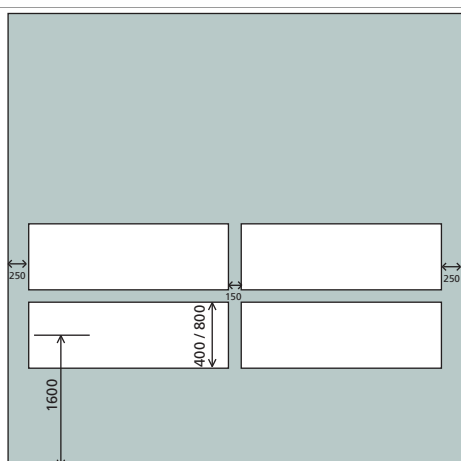
A vision panel can be installed at any DLW. At every 2200 mm DLW, the vision panel will be fitted with a vertical reinforcement strip. Vision panels are available in 400 mm and 800 mm height.

2.4.1 400 mm vision panel

| Daylight Height | Available no. of vision panels | CC |
|-----------------|--------------------------------|---------|
| < 1950 mm | 1 | 1600 mm |
| ≥ 2500 mm | 2 | 2150 mm |

2.4.2 800 mm vision panel

| Daylight Height | Available no. of vision panels | CC |
|-----------------|--------------------------------|---------|
| < 2150 mm | 1 | 1600 mm |
| ≥ 3100 mm | 2 | 2550 mm |



3. CEN Performance

| Characteristic | Standard | Test acc. | Result | Value |
|-----------------------|----------|-----------|---------------------|--|
| Wind load | EN 12424 | EN 12444 | Class 1 | 300 Pa (N/m ²) |
| Water permeability | EN 12425 | EN 12489 | Class 2 | 50 Pa (N/m ²) water spray for 20 minutes |
| Air permeability | EN 12426 | EN 12427 | Class 2 | 12 m ³ /m ² /h at 50 Pa |
| Safe openings | EN 12453 | EN 12445 | Pass | |
| Mechanical resistance | EN 12604 | EN 12605 | Pass | |
| Unintended movements | EN 12604 | EN 12605 | Pass | |
| Thermal resistance | EN 12428 | | | 6,02 W/(m ² K) |
| Performance (cycles) | EN 12604 | EN 12605 | 1.000.000 cycles | |

4. Building and space requirements

4.1 Building preparations

4.1.1 Installation preparations

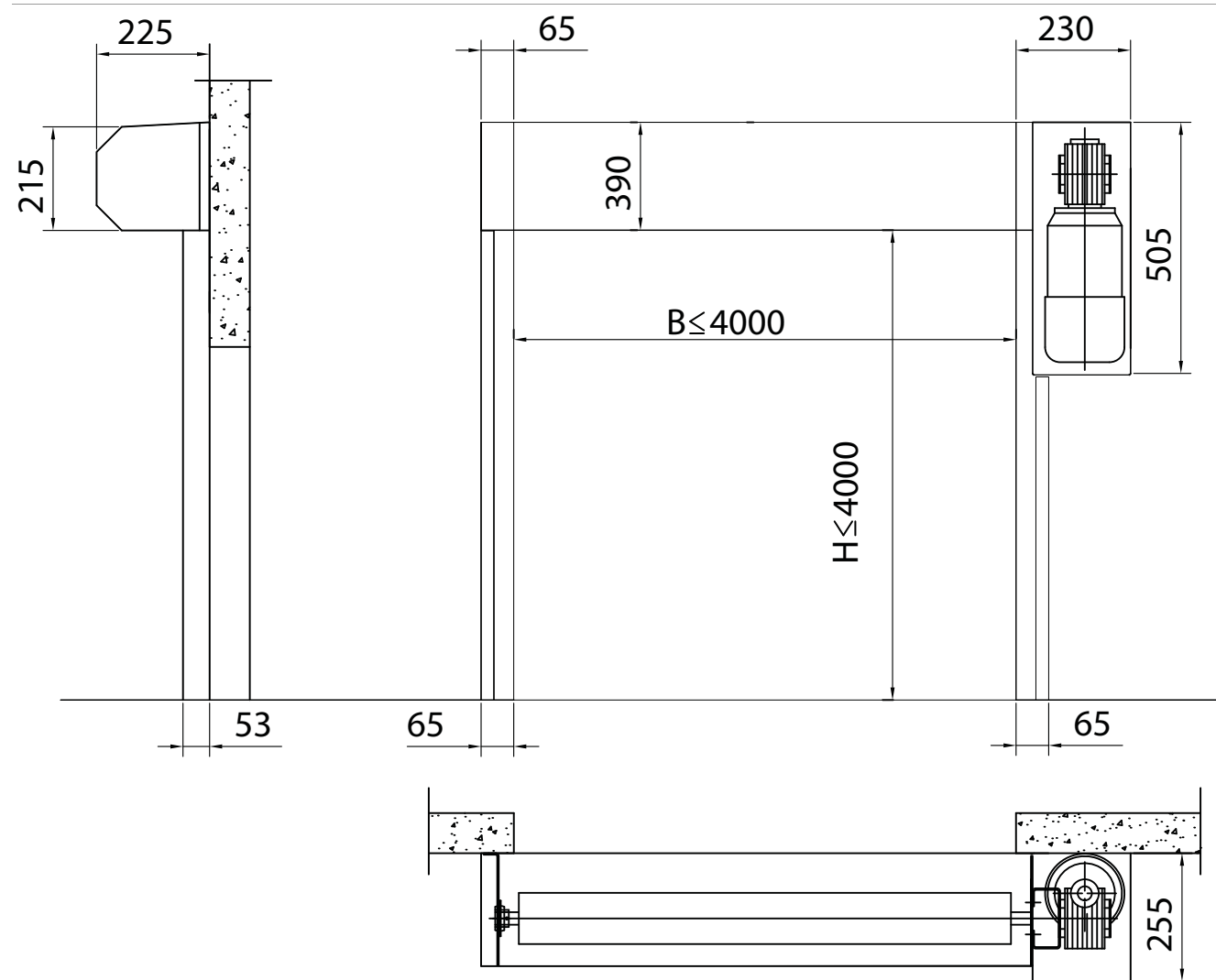
The door is pre-assembled in the factory as much as possible to ensure that installation can be carried out easily and quickly. The door is installed directly on the wall. A forklift truck is needed to raise the frame to the wall.

The fixation of the wall must be of an adequate strength to sustain the wind load as well as the blow of a collision.

The following environment criteria and electrical supplies are required for the operator to function properly:

| | |
|-----------------------------------|--------------------------------------|
| Voltage supply: | 220V - 240V 1-phase |
| Power: | 0,75 kW 16A |
| Frequency: | 50Hz - 60Hz |
| Degree of protection: | Operator: IP65 Control unit: IP54 |
| Temperature working range: | 0 °C to +40 °C |

4.2 Space requirements



5. Service

Preventive Maintenance Program and Modernization Services

As your entrances are part of your business flow, there's every reason to keep them working well. ASSA ABLOY Entrance Systems offers you a maintenance and modernization expertise to rely on. Our Maintenance Programs and Modernization Services are backed by a extensive expertise for all types of industrial door and docking systems, independent of brand. At your disposal is a team of dedicated expert technicians, proven through decades of maintenance, service and satisfied customers.

Preventive Maintenance Programs

Minimizing lost time, lost energy and unexpected hassle is our team's constant objective. Our service organization can support you 24/7 in maintaining all industrial door and docking systems, independent of brand. If you want to be one step ahead of break-downs, explore our portfolio of Pro-Active Care plans. Naturally, we also offer entrance upgrades to suit your specific wishes and business needs.

Pro-Active Care - Maintenance plans to fit your business

Regular maintenance can extend the lifetime of your equipment and help prevent unexpected problems. Our technician arrives on-site equipped with the knowledge and tools to service all automatic entrances, independent of brand.

- **Pro-Active Bronze**

The base on which all Pro-Active Plans are built provides the security of knowing that your equipment is regularly inspected and certified for safety, as well as performing optimally. It includes a number of planned on-site visits depending on your needs. Any unplanned service calls required during the term of the contract (including labor, travel and parts) are billed at special Pro-Active Care prices.

- **Pro-Active Silver**

This plan provides all the benefits of Pro-Active Bronze with the added advantage of labor and travel being included for service calls during regular business hours. The only additional charge would be for any parts that may be needed throughout the term of the contract.

- **Pro-Active Gold**

This plan provides the ultimate protection for your automatic entrance investment. It includes all the benefits of Pro-Active Silver, plus replacement of any parts required during an unplanned repair or planned maintenance visit. Pro-Active Gold is an excellent way to budget your automatic door expenses annually.

- **Pro-Active Tailor-Flex**

Our most flexible maintenance and service offering. The Pro-Active Care plan is designed by you, our customer. The plan allows you to balance your maintenance expenses against your real-world budget and presents the option to add or delete a number of maintenance elements to suit your budget goals, while meeting your overall performance and safety needs.

Modernization

Your entrances are a long-term investment, from which you always want the best. Products develop over time, so do regulations and your business. Let us help you increase energy savings and meet today's standards. We provide advice and modernization kits for outdated installations, ensuring your investment meet requirements and performs optimally for many more years to come.

| Re-Active Service | | Pro-Active Care | | | | |
|-------------------|-------------|-------------------|-------------------|-----------------|------------------------|---|
| Corrective | SafetyCheck | Pro-Active Bronze | Pro-Active Silver | Pro-Active Gold | Pro-Active Tailor Flex | |
| | | ○ | ○ | ○ | ● | Other customized requests such as Response Time, Performance InfoPack and Advanced User Training |
| | | ○ | ○ | ● | ○ | Replacement of worn parts according to preventive Consumable Exchange Program |
| | | ○ | ○ | ● | ○ | Replacement of spare parts on breakdowns |
| | | ○ | ● | ● | ○ | Travel and labor for additional call-out visits |
| | | ● | ● | ● | ● | Preventive maintenance visits 1-4 times per year |
| | | ● | ● | ● | ● | Travel and labor for preventive maintenance visits |
| | | ● | ● | ● | ● | Response time and priority on call-outs <24h |
| | | ● | ● | ● | ● | Preventive planned maintenance that meets the most demanding standards in the market |
| | ● | ● | ● | ● | ● | Safety and quality checks according to applicable regulations and norms. Documentation of test results provided |
| ● | ● | ● | ● | ● | ● | Documentation of equipment status, assessment and service provided, all generated on site |
| ● | ● | ● | ● | ● | ● | Highly trained professional technicians with extensive knowledge, state-of-the-art tools and the right spare parts* |
| ● | ● | ● | ● | ● | ● | Dedicated Professional Customer Care Hotline |

● = Included as standard
○ = Available at special prices

* Well-stocked service vehicles with genuine and new spare parts

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ASSA ABLOY Entrance Systems is a leading supplier of entrance automation solutions for efficient flow of goods and people. With our globally recognized product brands Besam, Crawford, Megadoor and Albany, we offer products and services dedicated to satisfying end-user needs for safe, secure, convenient and sustainable operations.
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