



USER INSTRUCTIONS FOR SWING DOOR



SW2 LIGHT
SW5 HEAVY
SW4 SPRING
SW80S SPRING

1. CORRECT USE OF THE AUTOMATIC SWING DOOR

The FACE automations for automatic swing doors have been designed and constructed in accordance with European standard EN 16005, also the innovative and advanced electronic control system makes the door safer, as the maximum forces developed are limited to non-hazardous values.

It's still need to be observed the following precautions to ensure safety in relation to intended use, pedestrian traffic of people.

1.1 GENERAL SAFETY INSTRUCTION

These warnings are an integral and essential part of the product and must be supplied to the user. Read them carefully as they contain important information regarding the safe use and maintenance. You must keep these instructions and pass them on to subsequent users of the system.

This product must be used only for the purpose for which it designed. Any other use is considered improper and therefore dangerous. The manufacturer can't be held responsible for any damage caused by improper, incorrect or unreasonable.

Avoid the rest of the people in the vicinity of the area occupied by the stroke of the swing doors. Do not obstruct the motion of the automatic swing door as it may cause dangerous situations.

It's forbidden run toward a closed door , as the reaction time of the opening devices may be insufficient to avoid a collision.

This product is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the product by a person responsible for their safety. Children should be supervised to ensure that they do not play with the product.

In the event of failure or malfunction of the product, disconnect the power supply , avoid any attempt to repair or intervene directly and contact only qualified personnel. Failure to comply with the above may create a hazardous situation.

To ensure the efficiency of the system and its proper functioning is essential to follow the manufacturer's instructions must be performed by qualified personnel the periodic maintenance of automatic swing door. In particular, it is recommended that the periodic verification of the correct operation of all safety devices. All installation , maintenance and repair work must be documented and made available to the user.

1.2 RESTRICTIONS USE AND RESIDUAL RISKS

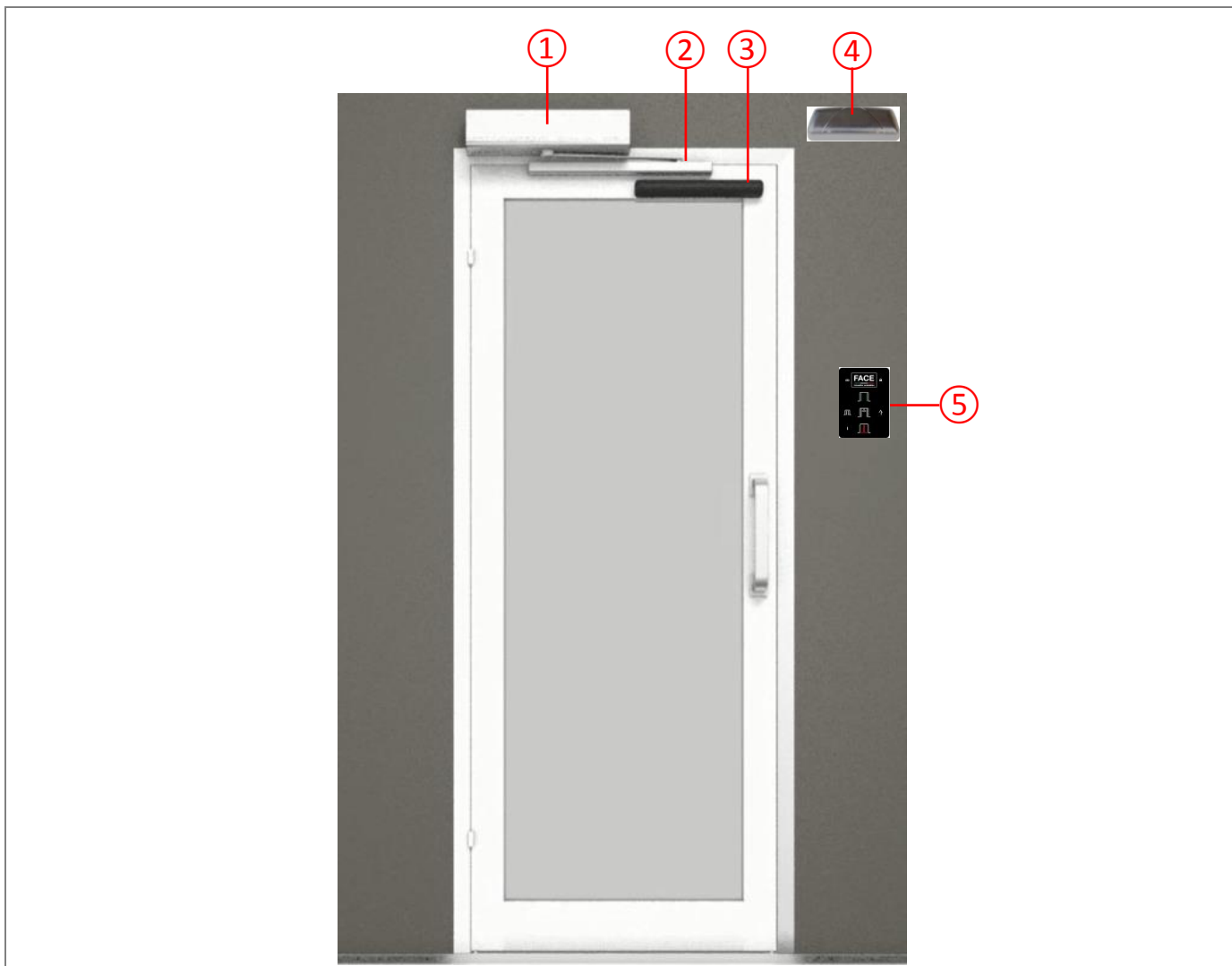
The European standard EN 16005 defines clearly what are the main hazards and the necessary protection to secure the use of an automatic swing door in standard conditions. Nevertheless, there may be particular situations where it is necessary to assess the possible risks and adopt the related solutions for the protection or risk reduction.

For example, the particular installation can be generated by: the architectural requirements, the type of use, from the environment of use, from the spaces in the building, the type of users, etc.

It's the installer duty to identify and assess these risks and notify the owner of the solutions adopted, including the existence of residual risks or the need for restrictions on use, filling in the following table.

| Rif. | Residual risk | Adopted solution |
|------|---------------|------------------|
| | | |
| | | |
| | | |
| | | |

2. STANDARD INSTALLATION



| Rif. | Code | Description |
|------|------------|---|
| 1 | SW2 | SW2 automation (Light) for swing doors |
| | SW5 | SW5 automation (Heavy) for swing doors |
| | SW4 | SW4 automation (Spring) for swing doors |
| | SW80S | SW80S automation (Spring) for swing doors |
| 2 | SWSA | Sliding arm to pull |
| | SWSA1 | Sliding arm to push |
| | SWAA | Articulated arm to push |
| 3 | SD3 | Infrared safety sensor |
| 4 | OS1 | Unidirectional microwave opening sensor |
| 5 | FSD1, FSD4 | Electronic function selector |
| - | SWBD | Battery power device |

Note: Components and codes are those most commonly used in systems for automatic swing doors. The full range of equipment and accessories is also available in the sales list.

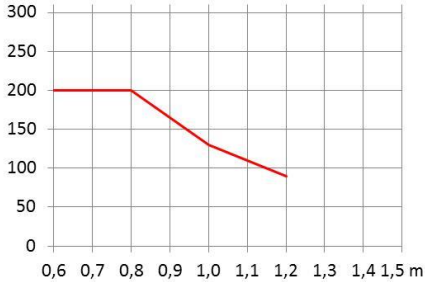
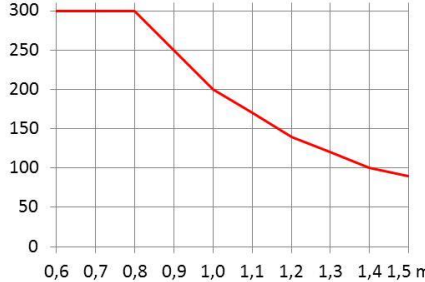




The given operating and performance features can only be guaranteed with use of FACE accessories and safety devices.

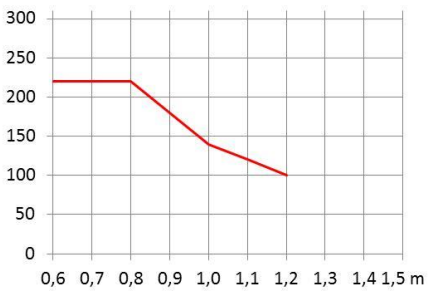
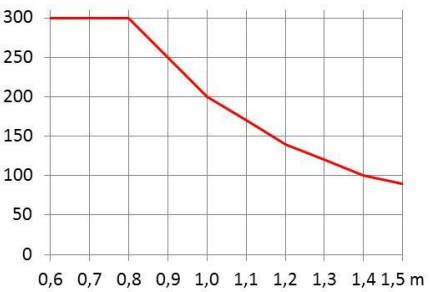




This is a translation of the original Italian user instruction. All data and information contained in this manual have been drawn up and checked with the greatest care. However FACE cannot take any responsibility for eventual errors, omissions or inaccuracies due to technical or illustrative purposes.

FACE reserves the right to make changes and improvements to their products. For this reason, the illustrations and the information appearing in this document are not definitive.

This edition of the manual cancels and replaces all previous versions. In case of modification will be issued a new edition.

3. TECHNICAL DATA

| Technical data | SW2 | SW5 |
|--|---|---|
| Model | LIGHT | HEAVY |
| Use | Opening and closing by motor. For internal use, not exposed to wind pressure. | Opening and closing by motor. |
| Reference standard | EN 16005 | EN 16005 |
| Product dimensions (Height x Depth x Length) | 82 x 117 x 443 mm | 104 x 118 x 463 mm |
| Maximum load: | 200 kg x 0,8 m  | 300 kg x 0,8 m  |
| Opening and closing time | 2 – 6 s | 2 – 6 s |
| Duty class Intermittent operation | Continuous operation S3 = 100% | Continuous operation S3 = 100% |
| Power supply Rated power / Stand-by | 100–240 Vca 50/60 Hz 40 W / 8 W | 100–240 Vca 50/60 Hz 70 W / 8 W |
| Rated load | 20 Nm | 40 Nm |
| Protection Rating | IP 20 | IP 20 |
| Operating temperature |  -15 °C  +50 °C |  -15 °C  +50 °C |
| Parameter adjustment | Buttons and Display | Buttons and Display |
| Connections to control and safety devices | Dedicated connecting terminals | Dedicated connecting terminals |
| Number of programmable terminals | 2 (G1, G2) | 2 (G1, G2) |
| Power output for accessories | 12 Vdc (1 A max) | 12 Vdc (1 A max) |
| Power output for electric locks and electronic locks | 12 V (1A max) / 24 V (0,5 A max) (for electric locks only) | 12 V (1A max) / 24 V (0,5 A max) (for electric locks only) |
| Firmware update | Micro SD standard | Micro SD standard |
| Function selector device | FSD1, FSD4 | FSD1, FSD4 |
| Battery power device | SWBD | SWBD |

| Technical data | SW4 | SW80S |
|--|---|---|
| Model | SPRING | SPRING |
| Use | Opening by motor, closing by spring and motor | Opening by motor, closing by spring and motor |
| Reference standard | EN 16005 EN 1154 (closing force: EN4) | EN 16005 EN 1154 (closing force: EN4, EN5, EN6) |
| Product dimensions (Height x Depth x Length) | 135 x 118 x 503 mm | 88 x 130 x 540 mm |
| Maximum load: | 220 kg x 0,8 m  | 300 kg x 0,8 m  |
| Opening and closing time | 2 – 6 s | 2 – 6 s |
| Duty class | Continuous operation | Continuous operation |
| Intermittent operation | S3 = 100% | S3 = 100% |
| Power supply | 100 – 240 Vac 50/60 Hz | 100 – 240 Vac 50/60 Hz |
| Rated power / Stand-by | 70 W / 8 W | 70 W / 3 W |
| Rated load | 23 Nm | 40 Nm |
| Protection Rating | IP 20 | IP 20 |
| Operating temperature |  -15 °C  +50 °C |  -15 °C  +50 °C |
| Parameter adjustment | Buttons and Display | Buttons and Display |
| Connections to control and safety devices | Dedicated connecting terminals | Dedicated connecting terminals |
| Number of programmable terminals | 2 (G1, G2) | 4 (G1, G2, G3, G4) |
| Power output for accessories | 12 Vdc (1A max) | 12 Vdc (1A max) |
| Power output for electric locks and electronic locks | 12 V (1A max) / 24 V (0,5 A max) (for electric locks only) | 12 Vdc (1A max) / 24 Vdc (0,5 A max) |
| Firmware update | Micro SD standard | USB standard |
| Function selector device | FSD1, FSD4 | FSD1, FSD4 |
| Battery power device | SWBD | SW80BD (for automations cut to size only) |

N.B. The technical data above refer to average conditions of use and cannot be certain in each case. Each automatic entrance variables such as: friction, balancing and environmental conditions that may substantially change both the duration and the quality of the operation of the automatic or some of its components, including the automation. The installer must to adopt adequate safety coefficients for each particular installation.

4. FUNCTION SELECTOR FSD1, FSD4 USE

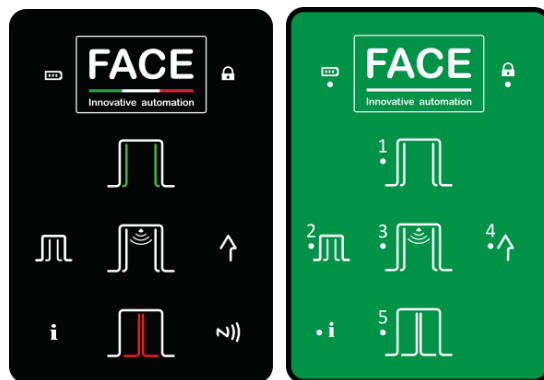
You can use the function selector to select the operating mode of the automatic swing door.

The function selector can work in the following ways:

- Always active and usable by all (factory setting);
- Selecting for 3 seconds, the logo, the function selector is activated for 10 seconds, after that time the function selector turned off to prevent inadvertent operation;
- Approaching the badge, the function selector is activated for 10 seconds, after that time is turned off to prevent its use by unauthorized personnel.

Note: the type of use and the desired storage of the badge must be performed in the installation phase.

The function selector allows the following settings.



| Symbol | Description |
|-----------------|--|
| | OPEN DOOR When selected, the symbol lights up, the door is permanently open. Note: the leaves can still be handled manually. |
| | AUTOMATIC BI-DIRECTIONAL OPERATION When selected, the symbol lights up, the door works automatic in bidirectional mode. RESET Select the symbol for 5 seconds, the automation performs the self-test and the automatic learning. |
| | CLOSED DOOR When selected, the door is permanently closed. If the locking device is present, the door is closed and locked. Note: using the menu SEL > DLAY you can adjust the delay time to close the door. CLOSING PRIORITY Select the symbol for 3 seconds, the automation closes slowly in "Low energy" mode, and the safety devices are temporarily disabled. |
| | AUTOMATIC PARTIAL OPERATION When selected, the symbol lights up and automatic operation of the door is with a partial opening of the leaves. |
| | AUTOMATIC ONE-WAY OPERATION When selected, the symbol lights up and automatic operation of the door is in one-way mode. |
| | FUNCTION SELECTOR IS NOT ACTIVE The symbol lights up when the function selector is not active. To activate the temporary operation of the function selector is necessary to approach the badge to the NFC symbol (FSD1), or enter the code (FSD4), or select for 3 seconds the logo. |
| | ACTIVATION OF THE FUNCTION SELECTOR Select the logo for 3 seconds (the lock symbol light off), the function selector is activated for 10 seconds. Expired the time the function selector switches off (the lock symbol lights up). |
| | FSD1 - Authorized activation of function selector by badge. Approach the badge to the NFC symbol (the lock symbol light off), the function selector is activated for 10 seconds. Expired the time the function selector switches off (the lock symbol lights up). FSD4 - Authorized activation of function selector by numeric code. |
| 1 2 3 4 5 | Press the logo, enter the code (maximum 5 numbers), press the logo for confirmation, (the lock symbol light off), the function selector is activated for 10 seconds. Expired the time the function selector switches off (the lock symbol lights up). |
| | BATTERY SIGNAL Battery symbol off = the door is operating with the mains supply Battery symbol on = the door is operating with battery power Battery symbol flashing = the battery is low or disconnected |
| | INFORMATION SIGNAL Information symbol on = it is necessary to perform the ordinary maintenance of the door. Information symbol flashing = shows the presence of alarms: - 1 flash = failure of electronic control or locking device; - 2 flashes = mechanical failure; - 3 flashes = failure of sensor safety test; - 4 flashes = motor overtemperature. - 5 flashes = failure of Emergency electronic control |

5. MANUAL SWING DOOR USE

The FACE automations for automatic swing doors are extremely reversible, and allow manual handling of the doors without additional effort.

The situations in which it is necessary to move the door manually are mainly two:

- For cleaning the doors, the glasses and external slides of the automation;
- In case of power failure or in damaged of the automation.

Note: in both cases, should be opened any latches and locks fitted on the doors.

5.1 MANUAL DOOR USE FOR DOOR CLEANING OPERATION



The manual handling of the door is always possible, select the door open mode from function selector.

Note: in the absence of the function selector, you can keep the door open mode via a switch connected to terminals 1-3A of electronic control.

5.2 MANUAL DOOR USE IN ABSENCE OF POWER SUPPLY OR IN DAMAGED CASE

The manual handling of the door is always possible even in case of power failure, or in damaged case of the automation.

To remove the power supply, for example in case of automation failure, turn off the isolating switch arranged in the electrical system.

























6. TROUBLESHOOTING

The following list of possible problems must be used by qualified personnel.

| Problem | Possible causes | Remedy |
|--|--|--|
| The automation does not open or close. | No power supply (display off). | Check the power supply. |
| | Short circuited external accessories. | Disconnect all accessories from terminals 0-1 and reconnect them one at a time (check for voltage 12V). |
| | The door is locked by bolts and locks. | Check the freely move of the doors |
| The automation does not perform the functions set. | Function selector incorrectly set. | Check and correct the settings of the function selector. |
| | Control devices or safety always activated. | Disconnect devices from the terminal and verify the operation of the door. |
| The movement of the doors isn't linear, or reverse the movement for no reason. | The automation does not successfully perform the automatic learning. | Perform a reset using the command 1-29 , or power off and power on the automation. |
| The automation opens but does not close | Anomalies during the safety devices test. | Jumper contacts one at a time 41 -6A , 41 - 8A. |
| | The opening devices are activated. | Verify that the opening sensors are not subject to vibration , do not perform false detections or the presence of moving objects in the field of action. |
| | The automatic closing doesn't work. | Check the settings of the function selector . |
| Safety devices not activating. | Incorrect connections between the safety devices and electronic control. | Check that the safety contacts of the devices are properly connected to the terminal blocks and the relative jumpers have been removed. |
| The automation opens by itself. | The opening and safety devices are unstable or detect moving bodies | Verify that the opening sensors are not subject to vibration , do not perform false detections or the presence of moving bodies in the field of action. |

7. WARNINGS ON THE ELECTRONIC CONTROL DISPLAY AND ON THE FUNCTION SELECTOR

Warnings on the electronic control display must be used by qualified personnel.

| DISPLAY | SEL | FLASH | WARNING | CHECK |
|---------|---|-------|--------------------------------------|---|
| W001 |  | 1 | Encoder error | Check encoder connection |
| W002 |  | 1 | Motor short circuit | Check the connection of the motor |
| W003 |  | 1 | Motor control error | Electronic control failure |
| W010 |  | 2 | Direction reversed | Check the presence of obstacles |
| W011 |  | 2 | Running too long | Check the connection between the motor and leaf |
| W012 |  | 2 | Running too short | Check the presence of obstacles |
| W013 |  | 2 | Overrun | Check the mechanical stops |
| W100 | - | - | Programming error (CB03) | Repeat the programming procedure in MEM > FW menu |
| W103 | - | - | Programming error (FSD1) | Repeat the programming procedure in SEL > FW menu |
| W127 | - | - | Automation reset | The automation performs a self-test |
| W128 |  | on | No power supply | Check the power supply |
| W129 |  | 1 | No battery | Check the battery connection |
| W130 |  | 1 | Low Battery | Replace or recharge the battery |
| W140 |  | 3 | 6A safety test failure | Check the safety sensor connection |
| W142 |  | 3 | 8A safety test failure | Check the safety sensor connection |
| W145 |  | 4 | Motor overtemperature (first step) | The door reduces the speed |
| W146 |  | 4 | Motor overtemperature (second step) | The door stops |
| W150 |  | 2 | Obstacle in opening | Check the presence of obstacles |
| W151 |  | 2 | Obstacle in closing | Check the presence of obstacles |
| W152 |  | 2 | Door locked open | Check the presence of locks |
| W153 |  | 2 | Door locked closed | Check the presence of locks |
| W156 |  | 2 | Door moved manually | Wait about 5 seconds |
| W160 |  | 1 | Synchronization error | Check the ADV > SYNC and the ADV > INK menu |
| W256 |  | - | Power on | - |
| W257 |  | - | Firmware update | - |
| W320 |  | on | Signaling of maintenance | Check the INFO > SERV menu |
| W330 |  | 1 | Tuning between motor and electronics | Wait about 3-30 seconds |

8. AUTOMATIC SWING DOOR ORDINARY MAINTENANCE PLAN

To ensure proper operation and safe use of the automatic door, as required by European standard EN16005, the owner has to perform routine maintenance by qualified personnel.

Except for routine cleaning of the door, the responsibility of the owner, all maintenance and repair work must be carried out by qualified personnel.

The following table lists tasks related to routine maintenance, and the frequency of intervention related to an automatic swing door operation with standard conditions. In the case of more severe operating conditions, or in the case of sporadic use of the automatic swing door, the frequency of maintenance can be consistently adequate.

| Task | Frequency |
|---|--|
| Remove the power supply, open the automation and perform the following checks and adjustments. - Check all screws fastening of components within the automation. - Check the state of wear of the hinges of the door (if necessary replace them). - Check the correct mounting of the arm on the door. - In the case of SW4 automation, check the correct force of the closing spring. - If present, verify proper engagement of the electric lock. | Every 6 months or every 500.000 cycles. |
| Connect the power supply and perform the following checks and adjustments. - Check the correct operation of the control devices and safety. - Check the detection area of the security sensors complies with the requirements of the European standard EN16005. - Check the operating forces of the doors comply with the requirements of the European standard EN16005. - If present, verify the correct operation of the electric lock. - If present, verify the correct operation of the battery power device (if necessary replace the battery). | Every 6 months or every 500.000 cycles. Note: the verification of the automation security functions and safety devices must be made at least 1 time per year. |

All maintenance, replacement, repair, update, etc.. must be written into the proof book, as required by European standard EN16005, and delivered to the owner of the automatic swing door.

For repairs or replacements of products, original spare parts must be used.

8.1 DISPOSAL OF PRODUCTS



The packaging materials (cardboard, plastic, and so on) should be disposed of as solid household waste, and simply separated from other waste for recycling.

Our products are made of various materials. Most of these (aluminum, plastic, iron, electrical cables) are classified as solid household waste. They can be recycled by separating them before dumping at authorized city plants.

Whereas other components (control boards, batteries, and so on) may contain hazardous pollutants.

These must therefore be disposed of by authorized, certified professional services.

Before disposing, it is always advisable to check with the specific laws that apply in your area.

DO NOT DISPOSE IN THE ENVIRONMENT.

FACE S.r.l.

Viale delle Industrie, 74 - 31030 Dosson di Casier (TV) – Italy

Fax +39 0422 380414 \ Phone +39 0422 492730

E-mail: info@facespa.it \ www.facespa.it



PROOF BOOK

FOR PEDESTRIAN AUTOMATIC DOORS

ACCORDING TO MACHINES DIRECTIVE 2006/42/CE AND EUROPEAN STANDARD EN 16005

This proof book contains technical references and records of installation, maintenance, repairs and alterations carried out and must be made available for any inspections by authorised bodies.

SPECIFICATIONS OF THE AUTOMATIC DOOR AND INSTALLATION

Manufacturer / Installer:

Name, address and reference person

Customer / Owner:

Name, address and reference person

Order number:

Number and date of customer order

Model and description:

Type of door

Dimensions and weight:

Doorway width, dimensions and weight of the leaves

Serial number:

Number for clear identification of the door

Location:

Address of installation

LIST OF COMPONENTS INSTALLED

The technical features and performances of the components listed below are documented in the relevant installation manuals and/or on the label on the component itself.

Drive unit:

Model, type, serial number

Motor:

Model, type, serial number

Electronic control:

Model, type, serial number

Safety devices:

Model, type, serial number

Control devices:

Model, type, serial number

Other devices:

Model, type, serial number

Other components:

Model, type, serial number

DESCRIPTION OF THE WORK

Tick the box corresponding to the work carried out. Describe possible residual risks and/or foreseeable improper use.

- Installation
- Start-up
- Adjustments
- Maintenance
- Repairs
- Alterations

Date

Technician's signature

Customer's signature

DESCRIPTION OF THE WORK

Tick the box corresponding to the work carried out. Describe possible residual risks and/or foreseeable improper use.

- Installation
- Start-up
- Adjustments
- Maintenance
- Repairs
- Alterations

Date

Technician's signature

Customer's signature

DESCRIPTION OF THE WORK

Tick the box corresponding to the work carried out. Describe possible residual risks and/or foreseeable improper use.

- Installation
- Start-up
- Adjustments
- Maintenance
- Repairs
- Alterations

Date

Technician's signature

Customer's signature

DECLARATION OF CONFORMITY

Machines Directive 2006/42/EC, Annex II-A



Manufacturer: _____
Address: _____

DECLARES THAT:

The Product: _____
Location: _____

It complies with the Machines Directive 2006/42/EC.

It complies with the Electromagnetic Compatibility Directive 2014/30/UE.

It complies with following harmonized standards:

EN 16005 Power operated pedestrian doorsets - Safety in use - Requirements and test methods

The technical documentation is managed by:

Name: _____
Address: _____

Place and date: _____
Name: _____
Position: _____
Signature: _____