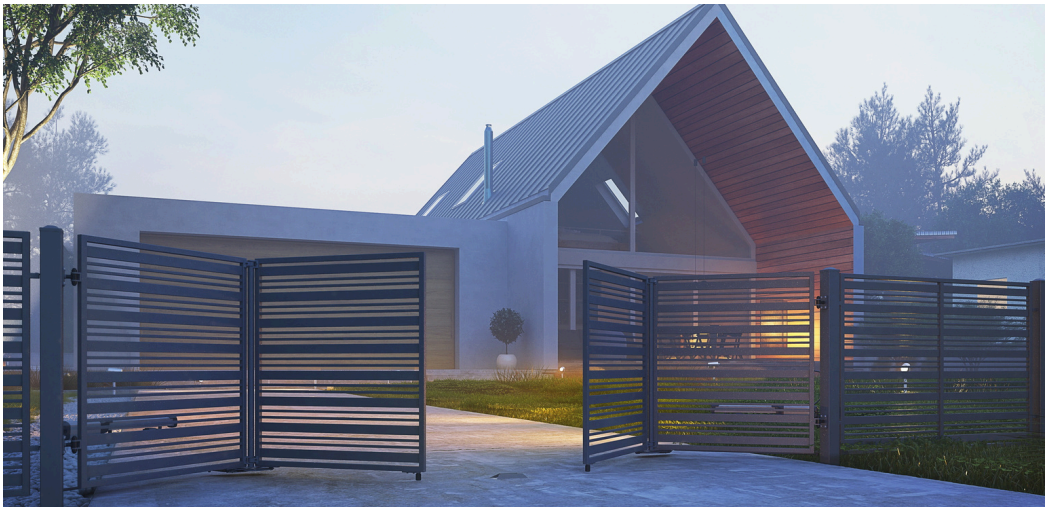
FirstFence®
AUTOMATION

RESIDENTIAL GATES
RESIDENTIAL BI-FOLD GATE

Operating and Maintenance Manual
Report Book



WISNIOWSKI
GATES | WINDOWS | DOORS | FENCES

CE

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This Operating and Maintenance Manual applies to several product versions as specified in Section 2 "Product Logbook", III. "Product Type".

1. OVERVIEW

[A000131] This Operating and& Maintenance Manual is intend- ed for Professional Installers and the Owners of the purchased product. It contains the essential information to guarantee safe installation and use, as well as the information about cor- rect care and maintenance of the products. Before beginning installation, read the entire manual, follow its guidelines, and perform all activities in the described order. The product and its separate elements shall be installed in accordance with the manual. Follow the guidelines for assembly and use to allow for correct assembly and to ensure a long and reliable use. [A000120] The Manual applies to several product mod- el variants.
[B000203] The door is also referred to as the "product".
[B000204] The control device is also referred to as the "drive unit".

- [A000132] **The product may be installed and adjusted by a PROFESSIONAL INSTALLER only.**
- [C000445] The electric drive unit or the controller can only be installed and adjusted by a **PROFESSIONAL INSTALLER** who is competent in automation and mechanical engineering equipment for residential use and must do the installation and adjustments in accordance with the current laws of the country of use.
- [A000094] **The scope of activities a Professional Installer and the Owner can perform is described further in this manual.**
- [A000104] **Failure to observe the safety regulations, regulatory requirements, as well as instructions and recommendations provided in this Operating and Maintenance Manual and Installation Instructions voids all of the Manufacturer's obligations and guarantees.**
- [A000198] **The product shall not be the only emergency exit from the building or site. It is recommended to provide more exists (like walk gates) to facilitate a safe egress.**

[A000145] When the product is the result of the installation of parts supplied by various manufacturers or suppliers, the installer is considered to be the manufacturer of the installed product.

[A000152] **Making any modifications or changes to the product accessories is strictly prohibited.**

[A000122] The Manufacturer shall not be liable for any damage or operating malfunctions caused by use of the product with equipment from other suppliers. Such use also voids the warranty issued by the Manufacturer.

2. REPORT BOOK

[A000176] The ‘product log’ constituting part of the prod- uct report log should be fully completed by the person responsible for the installation. Data necessary for the correct completion of the product log should be read from the product nameplate. A correctly and fully completed product log together with the guarantee card is the basis for accepting claims for guarantee repairs. All inspections and repairs of the product should be also recorded in the product log. Any recommendations for subsequent inspections of the product and replacement of worn-out components should be also included in it.

DOOR LOG

I. Type of product[1]

Residential bi-fold gate ☐

other:.....

Serial number: .....
name plate date

Door dimensions (width x height): .....
name plate date

Year of manufacture: ..... Installation date:.....
name plate date

Installed for: .....

.....
full name and address of product owner
(ordering party)

by: .....

.....
name and address of the installation company

Door installation address: .....

.....
if different than owner's address

Place of operation: .....

.....
place of installation

[1] – write "X" where marked with ☐,please write legibly

II. Power-driven door data[1]

[A000056] **Control system:**

Operating (supply) voltage: .....

Control voltage: .....

Drive type:

BFT Virgo ❑ BFT Igea ❑

BFT Phobos BT B40 ❑

Sommer Twist M ❑

other 

Gate control

Fobs ❑

Intercom ❑

Loop Device ❑

other 

Warning light

AW ❑ flashing, rotating ❑

other 

.....

Fitter's signature and installer's business stamp

[1] – write "X" where marked with ❑,please write legibly

III. Product acceptance/commissioning report
The product in question complies in technical and safety terms with the standards and directives listed in the product technical documentation.

The acceptance tests of the entire product must be carried out by experienced and qualified personnel. They must take responsibility for carrying out the required tests. Depending on the risks involved, check compliance with the requirements of the applicable law, standards and other regulations, in particular EN 13241.

IV. The test run of the product was performed without issues and in accordance with the requirements[1]

- with complete and ready fitting and with all the electrotechnical and mechanical components properly adjusted ☐
- with a temporary power supply, but with all the electrotechnical and mechanical components properly adjusted ☐

I declare that:
- I hereby confirm that I have received the product complete and as ordered and with the complete documentation and manuals (owner's documents, Warranty Sheet, Installation and Operating Manual).
- I have received and understood the rules of proper product operation and the principles of operation, servicing and maintenance of this product.
- I confirm that I have read and agree with the warranty terms and conditions.

town	date
signature of product owner (ordering party)	professional installer's signature and fitting company stamp

FILL IN THE FOLLOWING SECTION IF A TEST RUN COULD NOT BE PERFORMED DURING PRODUCT ACCEPTANCE

V. The test run could not be performed during product acceptance because of [1]

- the lack of power supply ☐
- defects and errors ☐
- other reasons beyond the control of the professional installer ☐

[1] – write "X" where marked with ☐,please write legibly

VI. The test run of the product will be scheduled and performed at the expense and initiative of the product owner / fitting company[2]

town	date
signature of product owner (ordering party)	professional installer's signature and fitting company stamp

VII. The test run of the product was performed without issues and in accordance with the requirements[1]

- with complete and ready fitting and with all the electrotechnical and mechanical components properly adjusted ❑
- with a temporary power supply, but with all the electrotechnical and mechanical components properly adjusted ❑

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town	date
signature of product owner (ordering party)	professional installer's signature and fitting company stamp

[1] – write "X" where marked with ❑,please write legibly
[2] – delete as appropriate

I. Type of product[1]

Residential bi-fold gate

other:.....

Serial number: .....
name plate date

Door dimensions (width x height): .....
nameplate date

Year of manufacture: ..... Installation date:.....
name plate date

Installed for: .....

.....
full name and address of product owner
(ordering party)

by: .....

.....
name and addressof the installation company

Door installation address: .....

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if different than owner's address

Place of operation: .....

.....
place of installation

II. Power-driven door data[1]

[A000056] **Control system:**

Operating (supply) voltage: .....

Control voltage: .....

Drive type:

BFT Virgo ❑ BFT Igea ❑

BFT Phobos BT B 40 ❑

Sommer Twist M ❑

other A

Gate control

Fobs ❑

Intercom ❑

Loop Device ❑

other A

Warning light

AW ❑ flashing, rotating ❑

other A

.....

Fitter's signature and installer's business stamp

[1] – write "X" where marked with ❑,please write legibly

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town	date
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.....	.....
town	date
.....	.....
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- I confirm that I have read and agree with the warranty terms and conditions.

.....	.....
town	date
.....	.....
signature of product owner (ordering party)	professional installer's signature and fitting company stamp

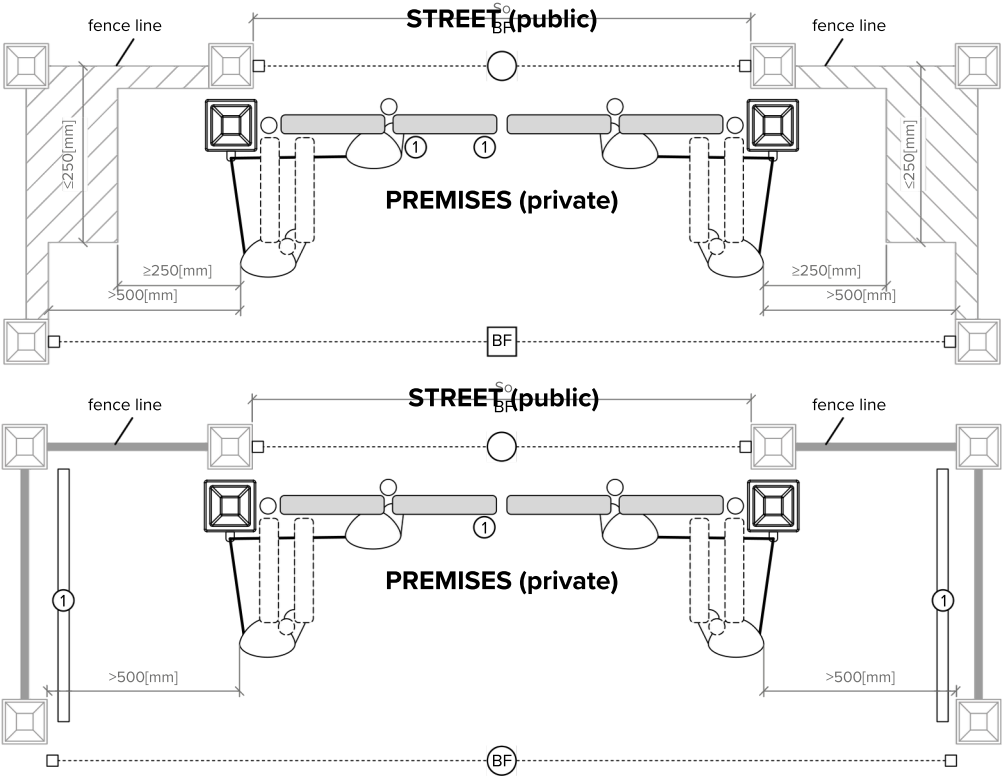
[1] – write "X" where marked with ❑,please write legibly
[2] – delete as appropriate

3. EN 13241 MINIMUM SAFETY LEVELS

Gate activation method	Usage	
	Trained gate operators (private premises)	Trained gate operators (public premises)
deadman control (in manual) with the view* of the gate available	A	B
pulse control (remote control transmitter) with the view* of the gate available	**C or E**	C or E
pulse control (remote control transmitter) with the view* of the gate unavailable	**C or E**	C & D or E

* Clear view of the door means full, direct, and continuous visibility of the door in real time.

A – push-button control (door-bell cable switch without electrical latching)
B – push-button control with a key for additional safety (cable switch with a key)
C – force limitation device
D – human or barrier detector working for one side of the gate
E – human detector designed and installed to prevent human contact with a moving gate leaf in any conditions



○ – required
□ – recommended
1 – safety edge strip
BF – photocells barrier

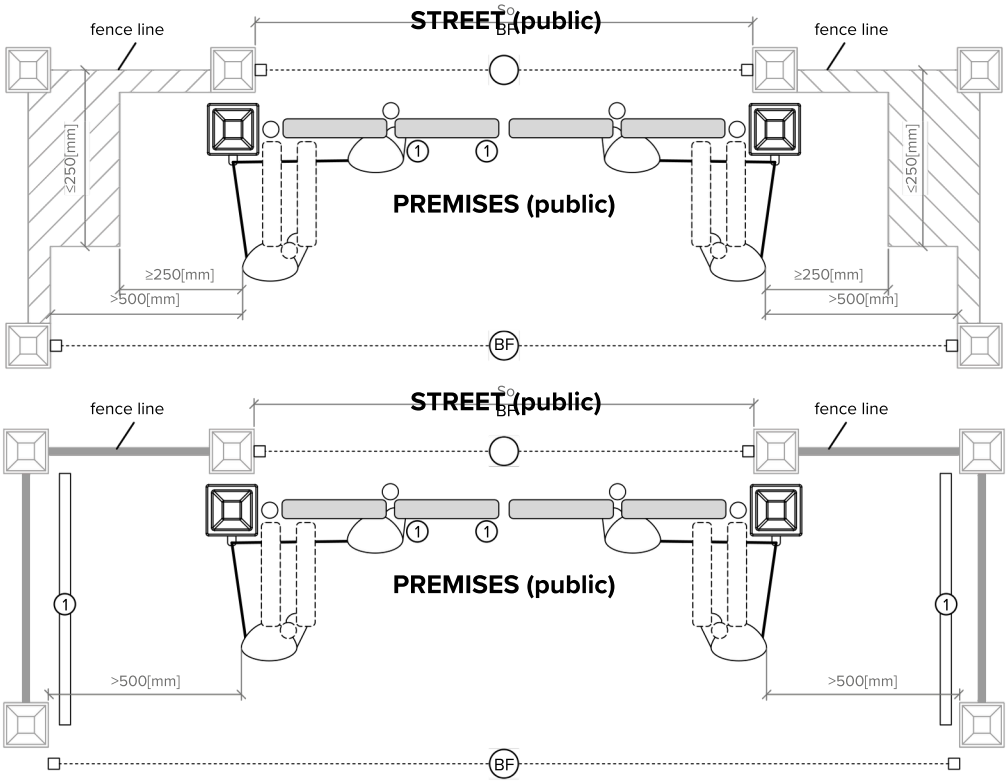
[C000141] **When the distance requirement between the open gate leaf and an obstacle is not observed, the photocells from the premises side should be treated as a required safety device.**

EN 13241 MINIMUM SAFETY LEVELS

Gate activation method	Usage	
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deadman control (in manual) with the view* of the gate available	A	B
pulse control (remote control transmitter) with the view* of the gate available	C or E	**C or E**
pulse control (remote control transmitter) with the view* of the gate unavailable	C or E	**C & D or E**

* Clear view of the door means full, direct, and continuous visibility of the door in real time.

A – push-button control (door-bell cable switch without electrical latching)
B – push-button control with a key for additional safety (cable switch with a key)
C – force limitation device
D – human or barrier detector working for one side of the gate
E – human detector designed and installed to prevent human contact with a moving gate leaf in any conditions



○ – required
□ – recommended
1 – safety edge strip
BF – photocells barrier

[C000141] **When the distance requirement between the open gate leaf and an obstacle is not observed, the photocells from the premises side should be treated as a required safety device.**

4. STANDARD TERMS AND DEFINITIONS

[B000232] Explanation of warning signs used in the Operating and Maintenance Manual:



Caution! – this sign indicates that attention is required.



Information – this sign indicates important contents.

Professional fitter – a competent person or unit who offers product installation services, including their improvement, to third parties.
Competent person – an appropriately trained person with qualification resulting from knowledge and practical experience, provided with necessary instruction to enable the required installation to be carried out correctly and safely.
Owner – a natural or legal person with the legal title authorising them to dispose of the purchased product, and liable for its operation and performance.
[B000213] **Product operating cycle** – one opening and closing motion of the product.

5. DESCRIPTION OF DESIGN AND TECHNICAL DATA

[D000488] The gates are steel structures complete with posts, a full set of hinges and drive transmission systems.



[D000429] **Zinc coating is not for decoration purposes but serves as corrosion protection.**

6. APPLICATIONS AND INTENDED USE

[A000102] All products shall be used and operated as intended. Their selection and use in building engineering shall follow the specific technical documentation of the installation site prepared according to current laws and standards.
[D000270] The gate is designed to fence premises, land plots, recreation sites, housing estates, public buildings and others of the similar designation. Other applications are treated as inconsistent with the purpose of the product.
[A000163] Any other use is considered as non-intended use. The Manufacturer shall not be liable for any damage from non-intended use.
[B000165] The product can only be operated as intended provided that the user has understood the relevant safety conditions and possible risks, and that the installation and operating guidelines are observed. When the product is used in areas exposed to weather, environment and random incidents (e.g. flood, gale or hail), the manufacturer accepts no liability for the losses caused by the factors specified above.

[C000447] **Photocells must be used whenever:**
• the automatic door closing function is enabled;
• the remote control functionality is used;
• The control is located out of the line of sight of the product.
• The product is not directly in the line of sight of the user.
• The product is planned to be operated automatically.
[C000448] If the product is operated by the drive unit to close automatically or the product encroaches onto a public road or a public sidewalk, it is recommended to install a warning beacon according to the national regulations prevailing in the country of operation of the drive unit.
[C000074] “Automatic gate” warning sign should be attached to the gate.

7. ENVIRONMENTAL PROTECTION

Packaging
[A000008] Packaging (cardboard, plastics, etc.) are classified as waste suitable for recycling. Follow local legislation for specific material before throwing it away.
Product scrapping
The product consists of many different materials. Most of the materials used are suitable for recycling. Sort it before disposal, and then deliver to refuse collection and disposal area for recycling.



Follow local legislation for specific material before scrapping.



[A000009] **Important:**
Recycling cuts raw material usage and wastes volume.

[A000118] This device is marked in accordance with European Directive 2012/19/EU on waste electrical and electronic equipment and Directive 2006/66/EC of the European Parliament and of the Council on batteries and accumulators and waste batteries and accumulators and repealing Directive 91/157/EEC. This marking informs that the device and batter- ies cannot be disposed of with other household waste after they have been used. The user is obliged to submit (hand over) devices and batteries to entities dealing with collection of waste batteries and electrical and electronic equipment. The collecting entities, including local collection points, shops and municipal units, create an appropriate system enabling the submission of such equipment and batteries.
Proper handling of waste batteries, electrical and electronic equipment contributes to avoiding harmful consequences for human health and the environment resulting from the presence of hazardous components and improper storage and treatment of such equipment and batteries.

8. OPERATING INSTRUCTION



- [B000189] **It is prohibited to remove any structural components!** This may result in damage to parts which normally ensure the safe use of the product.
- **Alteration of any components or parts is prohibited.**
- [B000210] **Do not modify the adjustments done by the Professional Installer.**
- [A000062] **Do not perform any product repairs on your own.**
- [C000260] **Do not fit any extra filling or thermal insulation on the product’s leaf/curtain without prior written authorisation from the product manufacturer. T**he product’s drive unit is precisely adapted to the product’s leaf/curtain weight and any extra accessories installed on the product may result in overloading it, leading to operating malfunctions.
- [C000321] **If the product or drive unit is removed and reinstalled, verify the location of limit switches and call a Professional Installer to readjust**

these components. [D000315] **The activity is not performed within the guarantee services.**

- [C000461] **During a full operating cycle of the product, the user should monitor the operating range of the product and make sure that everyone else is safely away until the product is fully open.**
- [C000383] **Do not stay, pass, run or drive under the product in motion.** Before opening or closing, ensure that no one, especially children, and no objects are in the path of the moving product. No one, no objects and no vehicles are allowed to stay within the clearance of the open product.
- [C000076] **Do not obstruct the product leaf's range of movement.** When closing or opening the product's leaf, make sure there is no one in its way, especially children.
- [C000077] **There shall be no obstacles in the product's range of motion.**
- [C000079] Approach the product only once it has stopped completely (open or closed). **Do not approach the product while it is moving.**
- [B000300] **When operated, the powered product must be opened and closed within the full range of the closing and opening limit switch settings.** Stopping this product half way of its motion is only allowed if the walk-through function of the door drive supporting it is used; otherwise, never stop the product half way of its opening or closing motion. The exception to this is an emergency requiring immediate stopping of the product's movement, e.g. where there is an direct threat to the health/life of humans and animals or destruction/loss of property.
- [D000143] **Do not deliberately obstruct the movement of the product or its drive unit.**
- **Do not put fingers or objects into the slide rail.**
- [A000103] **Do not use faulty products!** Do not use the product and contact an authorized service centre if the product is malfunctioning or its subassemblies are damaged.
- [A000125] **Do not remove, alter or disable any protective equipment.**
- [B000194] The product can only be operated when all the required safety devices are in place and if these devices are operational.
- [B000211] Keep batteries, rechargeable batteries or other small power sources out of the reach of children. Hazard of swallowing by children or pets! **Deadly hazard!**
  If this emergency occurs, immediately consult a medical doctor or seek medical attention. Do not shorten the battery leads. Do not throw the batteries into fire. Do not recharge non-rechargeable batteries. **Explosion hazard!**
- [C000080] **Keep the remote control transmitters, stationary transmitters, and other controls operating the product away from children to prevent accidental operation.** Do not allow children to play with control devices. Transmitters should be kept in dry places.
- [B000031] **Do not use the gates with gaps in filling <20%, if the wind speed exceeds 15 m/s.**
- [A000155] **Do not leave the leaf open in strong wind.**
- [C000042] This equipment can only be operated by children above 8 years of age, persons with impaired physical/and or mental performance and inexperienced users under supervision or according to the operating manual and with the principles of safe use and related hazards properly explained. Do not allow children to clean or perform maintenance works on the device. Mind that children must never play with this equipment.
- [C000384] **Do not use the product to lift/move/displace any objects or people.**
- [A000198] **The product shall not be the only emergency exit from the building or site. It is recommended to provide more exists (like walk gates) to facilitate a safe egress.**
- [D000668] **Failure to comply may result in severe injuries due to crushing by the product.**

8.1. OPENING AND CLOSING

[C000098] The product with the drive unit can be opened and closed by operating the remote control transmitter's button. Press and hold the operating button for 1-2 seconds. The product can be opened and closed by operating the switch (a wall switch or a door phone switch) or operating the key-op- erated switch, as applicable.

- [B000104] **All the manually operated products should be opened and closed smoothly, without any jerking which decreases product durability and safety of use.**
- [C000322] **Move the door leaf by hand at its entire length. Be careful not to lose control over the door leaf in motion.** Do not speed up the door leaf and release it without control. The moving leaf can be hazardous to persons and property, and result in damage of the door. Carefully slow down and stop the door.
- [B000093] **Operate the powered products as specified in the Operating and Maintenance Manual of the drive unit.**
- [C000078] **Open and close the product with the drive unit only when the product is within your line of sight, unless proper safety devices are provided for operation without seeing the product.**
- [B000154] In a product operated with the drive unit, the drive unit is constantly coupled to the product under normal operating conditions. The drive can be uncoupled only in an emergency, e.g. when the drive unit has failed. Once the drive unit has been uncoupled, couple the drive unit having opened/closed the product. **Do not uncouple the drive unit while it is operating as this may cause permanent damage to the drive unit.**
- [D000512] Emergency driver unlocking should be performed according to the Installation and Operating Instructions of the driver manufacturer.
- [D000667] **Do not operate the drive unit if it requires servicing or adjustment. Improper installation or balance of the door may cause severe injury.**

Drive by other manufacturer – disengagement of the drive unit:
[B000034] When disengaging the drive unit of other manufacturers, proceed in accordance with the Installation and Operating Manual of the drive unit manufacturer.

9. ROUTINE MAINTENANCE INSTRUCTIONS

9.1. ACTIVITIES WHICH MAY BE PERFORMED BY THE OWNER AFTER CAREFUL READING THE INSTRUCTION

- [D000166] **Disconnect the power supply from the drive unit before any maintenance work or inspection.**
- [A000043] **Before attempting to weld near the product, isolate the power supply from the product and isolate the electronic circuits. Hazard of failure of the product drive unit electronic components!**

[C000105] The following activities can be performed by the User after careful reading the whole manual delivered with this gate. Protect the product against exposure to corrosives, e.g. alkali, acids, etc. Do the maintenance as scheduled. Powder coated elements are to be cleaned at least annually, or more frequently in a polluted environment.
[C000122] Disconnect the drive unit from power supply before any cleaning works. Keep the installation site of the product clean to avoid malfunction or damage. Keep clean the gate leaves opening area by removing stones, gravel, mud, sand, etc.
[C000114] Also the sliding track area must be cleaned of stones, gravel, mud, sand, etc. Clean the areas around the drive unit (the product's post) to remove accumulation of debris, mud, dry leaves, coniferous needles etc. from the gear and the limit switches.
[B000298] It is forbidden to backfill the foundation bolts and the upper surface of the foundation with sand, grit, soil, etc., as it leads to damaging the zinc coating as a result of contact of humid environment with the zinc layer.

The following cleaning rules should be observed:
• [B000046] For washing, use pure water with small amounts of a neutral or slightly alkaline detergent, with non-scratching clothes.

- Painted surfaces must be cold to be cleaned - max. temperature 25° C.
- Only cold cleaning media may be used - max. temperature 25° C.
- No acidic or strongly alkaline cleaners/ scratching agents that can attack the steel base.
- No scratching agents or cleaners that scratch or damage the paint.
- No organic solvents which contain esters, ketones, alcohols, aromatics, glycol ether or chlorinated hydrocarbons, etc.
- No cleaning agents of unknown composition.
- No cleaning materials that leave remains on a cleaned surface.
- Fat, oil or soot spots can be removed with non-aromatic petrol hydrocarbons.
- Glue, silicone rubber or adhesive tapes remains can be removed with non-aromatic petrol hydrocarbons.
- Maximum treatment time may not exceed 1 hour. Cleaning may be repeated after at least 24 hours if required.
- Glue, mortar, putty, filler, masking and adhesive tapes may contain aggressive chemicals, so their effect on paint coating and the base must be tested before usage.

Never use water jet, pressure washers, or water vacuum cleaners.

[B000123] **Carry out ongoing inspections of the product at least every 6 months and perform the following (if applicable):**
- make sure electrical cables show no signs of wear,
- clean the photocell covers or the signal lamp cover lens on a regular basis,
- replace the batteries at least every 12 months or whenever you notice a decreased transmitter range.
- check whether the operator is properly fixed,
- check the operation of the emergency opening mechanism supplied with the drive unit,
- perform control device maintenance in accordance with the control device Operating Manual.
- [C000206] the fastening of all threaded joints;
- the overall technical condition of the fence.

[B000144] **For powered products, perform these procedures every 6 months (as applicable):**
- Verify that the limit switches are in adjustment (inspect by operating the product and monitoring the stopping position),
- check the photocells by simulating the operating conditions - when the light beam is interrupted, the door should stop and reverse,
- check the lock or latch closing sensor - when the lock or latch is closed, the door should not operate,

[C000326] **Do a functional test of the overload switch (applicable to the drive units which feature overload control) and the resistive edge strip.** When the product touches an obstacle, it should stop and reverse.

[C000182] **Painting**
When required, zinc layer losses should be repaired with anti-corrosive primer and finishing coat, according to the paint manufacturer instructions, or with a zinc-rich paint.

- [B000007] **Do not use this product in the case of faulty operation or damage to components.** Do not operate; contact an authorised service centre or a Professional Installer.
- [D000668] **Failure to comply may result in severe injuries due to crushing by the product.**
- [A000114] The Manufacturer shall not be liable for any damage caused by failure to comply with safety rules, the Operating and Maintenance Manual or applicable legal requirements.

Service inspection

9.2. ACTIVITIES TO BE PERFORMED BY A PROFESSIONAL INSTALLER ONLY

- [D000166] **Disconnect the power supply from the drive unit before any maintenance work or inspection.**

• [A000043] **Before attempting to weld near the product, isolate the power supply from the product and isolate the electronic circuits. Hazard of failure of the product drive unit electronic components!**

[A000093] **Periodically inspect the door at least every 12 months.**

• [C000474] Identify the product: its type and serial number.
• Inspect the identification marking and stickers on the product, and replace if missing.
• Inspect the warranty certificate or the product logbook for invalid dates and previous entries.
• Note the operating conditions of the product: if the conditions deviate from the specified operating requirements or the product is operated against its intended use, explain the potential consequences (e.g. risk of failure) to the owner.
• Check whether the lock or latch operate properly (if provided)
• Check the operation of the remote control transmitter, replace batteries if required
• Read and record the completed operating cycles on the warranty certificate (applicable to powered products with operating cycle counters).
• All operating defects of the product and safety-critical component damage found during the inspection shall be absolutely rectified.
• [B000247] check the mechanical components affecting the safety and proper operation of the product. Eliminate any failures and repair or replace any malfunctioning components and parts.
• check the mechanical components affecting the safety and proper operation of the product. Eliminate any failures and repair or replace any malfunctioning components and parts.
• check the condition of the seals and brushes, replace if visible damage is found
• check whether the lock or latch mechanism, and the lock or latch closing sensor operate correctly - when the lock or latch is closed, the door should not operate (if applicable)

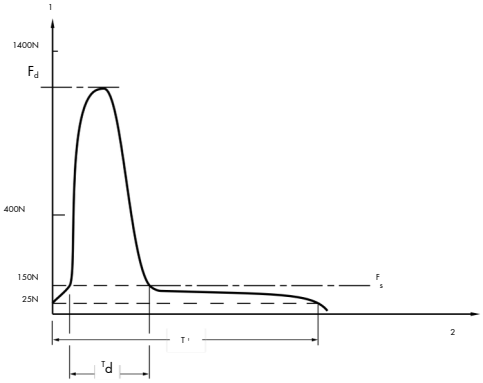
• check the electrical system, in particular, check the electrical cables
• check all the installation fastening points for wear, failure or imbalance
• [C000113] Check the condition of all fixtures installed with the product and correct them if necessary.
• It is not recommended to lubricate the moving parts of the product (apart from the specified lubrication points); otherwise, dust and debris will be attracted to deposit on the lubricant film and accelerate the wear of the components.
• Clean photocells cases with a wet cloth; do not use solvents or other chemicals for that purpose as it can damage the units.
• [C000123] check, if all connections are screwed and fixed properly,
• check all safety devices are operable,
• if there are any faults in electrical drive operation, switch off drive power supply for 2÷3 min, then switch it on again,
• check the hinges and adjust them if necessary,
• If any faults are found, they must be removed in accordance with the Installation and Operating Manual of the product.
• Test the emergency manual opening of the product and verify that the mechanism can be easily uncoupled.
• check for any obstacles within photocells beam, and those within the gate moving area,
• check the operation of overcurrent circuit breaker; provide any required adjustments acc. to the control unit instruction supplied. The leaf pressure force should not exceed the values provided by EN 12453.

• [B000209] **Verify proper adjustment of the product and its compliance with EN 13241, EN 12453.** Do the checks explained in Section 9.3, 9.4.
• [A000166] **Any alterations and modifications to the door should be agreed on with the door manufacturer.**
• [A000114] **The Manufacturer shall not be liable for any damage caused by failure to comply with safety rules, the Operating and Maintenance Manual or applicable legal requirements.**

9.3. DRIVE UNIT ADJUSTMENT

[B000229] Having completed the installation, verify the movement of the drive unit and the overload switch function. When the product touches an obstacle, it should stop and reverse.

• [C000454] **Verify proper operation of the photocells by functional testing.** When closing, the product should stop and reverse if the photocell beam is broken.
• [C000326]**Do a functional test of the overload switch (applicable to the drive units which feature overload control) and the resistive edge strip.** When the product touches an obstacle, it should stop and reverse.
• [B000244] **Measure the force at the closing edge.** Verify that the force restriction meets the specifications of PN-EN 12453 Annex A. The dynamic force (Fd) of the main closing edge shall not exceed 400 [N] with the opening gap ≤ 500 [mm] or 1400 [N] with the opening gap >500 [mm], and the application time of dynamic force (Td) shall not exceed 750 [ms] per PN-EN 12453.



• [D000668] **Failure to comply may result in severe injuries due to crushing by the product.**

9.4. OVERLOAD ADJUSTMENT

[D000689] When the end positions are being set, the drive unit automatically adjusts the overload function (applies to drive units with this feature). The overload sensitivity can be adjusted manually following the instruction manual of the controller.



- [C000236] Set the force and sensitivity threshold of the overload switch as specified in the Installation and Operating Manual of the drive unit (applicable to drive units with overload control). The set overload force shall be the minimum force at which the gate can complete a full opening/closing cycle. The overload sensitivity threshold is an essential safety feature for protection against hazard of accidents or crushing of objects within the product clear opening. **The dynamic force of the main closing edge shall not exceed 400 [N] with the opening gap ≤ 500 [mm] or 1400 [N] with the opening gap >500 [mm], and the application time of dynamic force shall not ex- ceed 750 [ms] per PN-EN 12453.**
- [C000456] **The pressure and tractive force shall be set to prevent property damage and injury.**
- [C000450] **Each time the overload rate is adjusted (which applies to drive units with adjustable overload rate), verify that the force limit meets the specifications of PN-EN 12453 Annex A.**
- [D000668] **Failure to comply may result in severe injuries due to crushing by the product.**

9.5. ACTIONS RESTRICTED TO AUTHORISED SERVICE AGENTS OF THE MANUFACTURER

- any modifications of the product;
- repairs of components
- [C000465] Power cable replacement.



[A000011] **All the actions should be carried out as instructed in this Installation and Operating Manual. Please send any remarks and recommendations you might have to the owner in writing, e.g. note them in the Report Book or in the Warranty Sheet. After completing the inspection, confirm that the inspection was performed by adding an entry in the Report Book or in the Warranty Sheet.**

[A000079] **The manufacturer reserves the right to introduce design modifications due to technological progress that do not alter the product functionality, without prior notice.**

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[A000048] **This document has been translated from Polish. In case of discrepancies, the Polish version prevails.**

10. INSPECTION SHEET

[A000072] In order to check the technical condition of the product, a Professional Installer should take into account all of the manufacturer's guidelines provided in the Operating and Maintenance Manual and Installation Instructions. Other documents can be appended as a proof of inspection, e.g. the documents which justify decommissioning or com- plementing of the product, including drawings/sketches and certificates. The appended documents should be listed.

Date	Performed work / defects found	Eliminated defects / recommended, required remedial actionslegible company name	Date / service technician's signature including

Date	Performed work / defects found	Eliminated defects / recommended, required Date / service technician's signature including remedial actionslegible company name

THIS DOCUMENT IS INTENDED FOR THE INSTALLATION COMPANY

11. USER TRAINING SHEET

On ....., the representatives of the product owner:

1.	.....	.....
2.	.....	.....
3.	.....	.....
4.	.....	.....
5.	.....	.....
6.	.....	.....
7.	.....	.....
8.	.....	.....
9.	.....	.....
10.	.....	.....
	surname, first name	signatures

Have been trained in operation and use of the product

Training schedule

Product design

Overview of safety equipment operation ❑

Overview of maintenance methods ❑

Service

Overview of use – normal operation ❑

Overview of use – power supply failure ❑

Occupational health and safety

Introduction to OHS rules ❑

Training instructors

1.	.....	.....
2.	.....	.....
3.	.....	.....
	surname, first name	signatures