

# ALUMINIUM DOORS, WINDOWS AND WALLS



(EU - 2/2)

## Assembly and Operating Instructions



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Technical description

**Assembly and Operating Instructions**

**Aluminium doors, windows and walls / PART 2**

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Техническое описание

**Инструкция по монтажу и эксплуатации**

**Алюминиевые двери, окна и стенки / ЧАСТЬ 2**

Техническая документация - смотри ЧАСТЬ 1 (EU - 1/2)

**DE** – Seite 6

Technische Beschreibung

**Montage und Bedienungsanleitung**

**Fenster, Türen und Wände aus Aluminium / TEIL 2**

Technische Dokumentation - siehe TEIL 1 (EU - 1/2)

**CS** – strana 18

Technický popis

**Návod k instalaci a obsluze**

**Hliníkové dveře, okna a stěny / ČÁST 2**

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Descriptif technique

**Notice de Montage et de Fonctionnement**

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**Dear Customer!**

[A000095] Thank you for choosing our product. Carefully read and follow the provisions of this manual. It contains the essential information to guarantee safe installation and use, as well as the information about correct care and maintenance of the products. Incorrect operation and/or maintenance will result in malfunctions that otherwise can be avoided. Should you still have any questions about this manual, contact our Customer Service.

**[B000135] 1. GENERAL**

- This Installation and Operating Manual is intended for professional fitters, competent persons and door and window owners.
- Install the doors and windows and their components in accordance with the Installation and Operating Manual provided by "WIŚNIO-WSKI" Sp. z o.o. S.K.A.
- Read the whole manual before attempting the installation. Read this Instruction thoroughly and follow it.
- **The manual covers the installation of the products with standard equipment and optional equipment components. The scope of standard and optional equipment is defined in the commercial offer.**
- [B000136] **The products may be installed and adjusted by COMPETENT persons.**
- **The scope of activities a professional fitter, a competent person and the door or window owner can perform is shown further in this manual.**

[B000137] The manual presents installation of several types of doors and windows. The reference drawings may vary in finish details. When necessary, the details are shown in separate drawings. When installing the product, follow the occupational health and safety regulations for installation and fitting works with the use of power tools, depending on the applied installation technology, and consider the applicable standards, laws and reference construction documentation. When performing renovation works, protect the doors and windows against splashing of plaster, cement, gypsum, etc. which may leave stains of dirt.

Hand over the Installation and Operating Manual to the product owner once the installation has been finished. Protect the Installation and Operating Manual from being destroyed and keep it safe.

If the door is installed with components from various manufacturers or suppliers, the doors or windows becomes the door manufacturer.

Do not modify or remove any of the door or window components. Otherwise it may result in damage to parts which ensure safe use of the product. Alteration of the door or window components is prohibited.

**[B000138] 2. STANDARD TERMS AND DEFINITIONS**

Explanation of warning signs used in the instruction:



**Note!** - this sign indicates that attention is required.



**Information** - this sign indicates important contents.



**Reference** - this sign refers to a specific item in this Installation Manual.

**Professional fitter** - a competent person or unit who offers door and window installation services, including their improvement, to third parties.

**Competent person** - a person who has been adequately trained, has qualifications resulting from this knowledge and practical experience, and provided with the necessary instructions to allow correct and safe performance of the required installation.

**Owner** - a natural or legal person with the legal title authorising them to use the door or windows, and liable for their operation and performance.

**[C000347] 3. EXPLANATION OF WARNINGS**

So – opening width,

Ho – opening height

S – ordered width of the door or window

Hd – ordered height of the door or window.

**[C000348] 4. APPLICATION AND INTENDED USE**

**Doors and windows are intended for use in multiple-family housing, boarding houses, public utility and industrial buildings.**

**[B000139] 5. ASSEMBLY GUIDELINES**

Before assembling and commencing the use of the door or window, thoroughly read and understand the guidelines contained in this instruction. Follow the guidelines for assembly and use to allow for correct assembly and to ensure a long and reliable use. Proceed with all actions related to assembly in the sequence as described.

**[B000140] 6. INSTALLATION REQUIREMENTS**

Doors and windows 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. [B000141] The doors and windows may be installed in reinforced concrete walls, brick walls or in steel frames. The room where they are to be installed must be completely finished (with the walls covered in plasterwork and the flooring finished). The finished walls must be free of defects in workmanship. The room must be dry and free of chemicals detrimental to paint coats. The side walls, the headwall and the door installation opening lintel must be truly vertical and perpendicular to the floor, and finished.



**Do not install doors or windows before the finishing works (i.e. plastering, grinding, etc.).**

The flooring at the bottom gasket shall be level and built to ensure free outflow of water. Ensure proper ventilation in the room (for drying of materials).

**[C000349] 7. DOOR AND WINDOW MARKINGS**

The doors and windows feature a label with the following information:

- manufacturer's name,
- product name (symbol),
- reference document number,
- serial number,
- year of manufacture,
- door or window properties,
- CE marking or B construction mark.

**[B000142] 8. INSTALLATION INSTRUCTIONS**

Proper operation of doors and windows largely depends on correct installation. "WIŚNIOWSKI" Sp. z o.o. S.K.A. recommends its authorised installation companies. Safe and intended operation of the doors and windows can only be ensured by correct installation and maintenance in accordance with the Instruction and by competent entities or persons.

**[C000364] 8.1. INSTALLATION PROCEDURE:**

The doors and windows are delivered to the customer fully assembled, the walls are an exception to this rule. The packaging supplied with the products contains the following accessories: hardware, lock cylinder, set of keys, plastic plugs and other, depending on the door or window equipment.

The door can be installed with or without threshold.

Two types of installation are possible:

- on steel plugs installed directly in the frame holes – the pin type depends on the wall material,
- indirectly using anchoring plates bolted to the frame.



**The plugs are not included in the installation kit.**

The type of fasteners heavily depends on the type and structure of the building material to which the doors or windows will be fixed.

**8.2. WINDOW INSTALLATION:**

Fig. 1 Removal of the casement from the window frame. After opening the casement unbolt the upper hinge and raise the casement in its partially open position.

Fig. 5 In case of installing window sets or dismantled components, join the elements using connectors or bolt them together.

Fig. 10 Bend the wall plugs, position the frame on support blocks in the installation position and immobilise. Using a level check the vertical and horizontal orientation and whether the frame remains in the installation position.

Fig. 15 Diagram showing the positioning of support blocks.  
N – support blocks  
D – distance blocks

Fig. 20 Using wall plugs to secure the frame to the wall:  
a) indirectly using installation anchors,  
b) directly using openings made in the frame.  
Install the casement and check for correct operation. The width of the gap between the frame and the leaf should be 5 [mm] around the entire outline.

Fig. 25 If required perform the adjustments.

Fig. 30 With the casement closed, fill the space between the frame and the wall with polyurethane foam (following the guidelines provided by the frame manufacturer). Remove the wedges only when the PU foam is cured (follow the PU foam manufacturer’s instructions) and fill the gaps left. Do not remove support blocks, which should be left in place permanently. Remove excess foam. Do not block the drainage openings.

Fig. 35 Positioning of pane support pads - required during the installation of glass elements.

**8.3. DOOR INSTALLATION:**



**The door shall be installed on a ready, finished floor.**

Fig. 45 Start the installation with the following actions:

- check that the frame posts are vertical and the lintel is horizontal,
- check that the frame width at the bottom is identical to the frame width at the top ( $\pm 1$  mm),
- check the dimensions of the opening in which the door will be installed.

Fig. 50 The choice of wall plug bending depends on the opening direction. In case of a heavy leaf it is required to remove it to make positioning of the frame easier.

Fig. 55 Removal of the leaf from the door frame.

Fig. 60-75 Perform the installation identically as in the case of a window.



- **It is advised to perform direct installation above and below the hinges.**
- **NOTE! While filling the space between the wall and the frame using mortar or foam - when the leaf is open - it is required to secure the frame from the inside using at least four wooden stabilising struts.**

Fig. 80 Installation of the bolt plate (socket) of the passive leaf:  
a) door with threshold,  
b) door without threshold.

Fig. 85 Foundation profile for Creo doors:  
a) with several profiles,  
b) with one profile.

Fig. 90 Installation of the threshold.

After the door assembly, install the hardware delivered in the separate box.

**8.4. INSTALLATION OF THE SAMPLE HARDWARE:**

**Fig. 95 Double sided handle**

- In order to install a handle perform the following actions:
- insert the handle spindle (1) in the upper lock hole,

- install the handle plates (2),
- tighten the handle plates together with the bolts (3): note that the bolts (3) must be inserted from the inner side of the leaf.

**Fig. 100 CLAQ system handle**

In order to install a handle perform the following actions:

- bolt the single-side spindle,
- install the handle.



The handles should be fastened tight and should not swing away from the door surface.

**Fig. 105 Pull**

In order to install a pull perform the following actions:

- bolt the spindles to the leaf,
- install the pull on the spindles,
- lock by tightening the bolts.

**8.5. DOOR CLOSER INSTALLATION - fig. 110**

Install the door closer as instructed in the installation manual of the device provided by its manufacturer. Fasten the door closer to the leaf by using the factory made openings on the mounting plate.



Using sheet metal screws may damage the door leaf.

**8.6. ADJUSTMENT OF THE CATCHERS - fig. 115**

In order to provide a correct distance between the door leaf and the frame adjust the position of the anchoring plate wells.

**8.7. INSTALLATION OF THE ANTI-PANIC HARDWARE - fig. 120-125**

Install the anti-panic hardware as instructed in the installation manual of the device provided by its manufacturer. The components of the hardware shall be bolted to the door in the factory prepared openings, using the fastening elements supplied together with the hardware.

**8.8. DAY FUNCTION - fig. 130**

In order to activate the day function:

- press the handle down to stop and hold it down,
- move the selector on the lock strip,
- release the handle,
- move the selector on the electric catch.

In order to deactivate the day function move the switches to their initial positions.

**8.9. BUTT HINGE ADJUSTMENT**

Fig. 135 Vertical adjustment ( $\pm 5$  mm adjustment):

- Prior to the adjustment take the load off the door.
- loosen all fastening bolts (1) and screws (2).
- Unscrew the grub screw 3.
- Adjust the hinge by using the hex key 4.
- after adjustment tighten the bolts 1 and grub screws 2 and 3.

Fig. 140 Adjustment of the distance between the leaf and frame ( $\pm 1.5$  mm adjustment):

Adjust by using the grub screw 2. One rotation of the screw is equal to the 1.25 mm horizontal adjustment.

Fig. 145 Adjustment of the sealing pressure ( $\pm 0,5$  mm adjustment):

- Prior to the installation take the load off the door.
- Slightly loosen the screws 1.
- adjust the sealing pressure by the eccentric using the 5mm hex key. The maximum adjustment is achieved by 1/4 rotation.
- After adjustment tighten the screws 1.

**8.10. AXCENT HINGE ADJUSTMENT - fig. 150**

The adjustment of the axcent door hinge shall be performed in accordance with the diagram provided in the manual.



After the door installation tighten the protection element located on the frame wing of the hinge.

**8.11. AW 45 DOOR HINGE ADJUSTMENT - fig. 155**

Horizontal adjustment:

- remove the cap 1,
- adjust by rotating the 8 mm sleeve 2 ( $\pm 1$  mm) using the hex key,
- install the cap.

Vertical adjustment:

- loosen the screw 3 and screw 4 of the top and bottom hinge. Use 3 mm hex key for the screw 3, and 4 mm hex key for the screw 4,

- perform the adjustment by moving the leaf upwards or downwards,
- after positioning the leaf tighten the screws 3 and fix its position with the screw 3.

### 8.12. ADJUSTMENT OF THE DOOR SURFACE HINGE - fig. 160

The adjustment of the door surface hinge shall be performed in accordance with the diagram provided in the manual.

### [C000351] 8.13. ERRORS IN DOOR AND WINDOW INSTALLATION

There is a risk that errors are made during the installation, which might otherwise be easily avoided if paying attention to:

- the leaf having equal diagonals,
- the side play between the frame and the leaf being equal,
- all fasteners being tightened correctly.

Failure to meet these basic guidelines will result in difficulties in correct functioning, damage or loss of guarantee for doors and windows.

### [C000352] 8.14 ADDITIONAL REQUIREMENTS

On completing the installation, check if the door or window has a CE marking plate or the "B" mark, contact an authorised service company if none it is not present. After checking for correct operation of doors and windows hand over the Installation and Operating Manual to the owner.

### [C000353] 8.15. FINISHING TASKS



After installing the door or window immediately remove the protective plastic sheet from the sheet metal skin of the door or window. Failure to do so will cause very strong bonding of the plastic sheet to the structure caused by heat and sunlight. This will make it almost impossible to remove the plastic sheet and may cause severe damage to the paint finish of the product.

### [A000008] 9. ENVIRONMENTAL PROTECTION

#### Packaging

Elements of packaging (cardboard, plastics, etc.) are classified as waste suitable for recycling. Follow local legislation for specific material before throwing it away.

#### 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] Remember! Recycling of packaging materials saves natural resources and reduces the amount of wastes.**

### [C000354] 10. REMOVAL OF DOORS AND WINDOWS

1. Open the door or window.
2. Remove the leaf from the hinges.
3. Remove the frame from the wall opening.

### [C000361] 11. INFORMATION ON PROHIBITED USE OF DOORS AND WINDOWS



- **Do not obstruct the leaf's area of movement.**  
Ensure that no persons, especially children, or any objects are in the path of a moving leaf.
- **It is prohibited for persons or objects to stay inside the open technical window or door.**
- **It is prohibited to use a window or door to lift objects or persons.**
- **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 is prohibited!**
- **Attention! Accident hazard!**
- [C000356] It is prohibited to use defective doors or windows, especially it is prohibited to continue their use if visible damage to elements or components responsible for safe operation occurred.
- If any operating malfunctions or damage to the components is found, it is prohibited to use product. Immediately stop using the product and contact an authorised service company.

### [C000357] Before opening the door or window for the first time check if it is installed correctly as specified in the Installation and Operating Manual.

The door or window is considered installed correctly if the leaf moves fluently and is easy to operate.

### [C000358] Opening and closing

- The doors may only be opened manually using an inside handle, outside handle or a pull handle! The doors are opened by pulling or pushing a (depressed) handle or pull handle in the opening direction.
- The windows may only be opened manually using an inside handle.

#### **Incorrect operation can cause an accident!**

Locking and unlocking – doors closed using the handle are not locked. In order to lock the door it is required to use the key by turning it 360°.

### [C000360] 12. NOTES ON OPERATION

Essential requirements for correct operation which will assure long and reliable performance:

- protect the aluminium sections from conditions harmful to paint coats and metal parts, e.g. corrosives, such as acids, alkalis or salts,
- when finishing or renovating the rooms, protect the window from splashes of plaster, paint and solvents,
- avoid contact of aluminium sections with: lime, cement, alkalis and cleaning agents (brighteners, abrasive pastes),
- limit the wet finishing works to minimum, if the mortar contacts the section surface remove the material immediately,
- if the window or door leaf resists too much during opening, verify that it has been properly installed and if any installation errors are found, adjust the door as instructed in the Installation and Operating Manual.

### [B000144] 13 IMPORTANT NOTES AND INFORMATION



- Please retain the following manual for future reference.
- All maintenance tasks shall be performed in accordance with the Installation and Operating Manual.
- It is required to follow the OH&S regulations and the provisions of the Installation and Operating Manual during maintenance and repair works related to the doors and windows.
- It is prohibited to modify any assemblies or parts of doors and windows.

### [B000145] 14. ONGOING MAINTENANCE

**These actions may be performed by the owner following a thorough reading of the Installation and Operating Manual:**

[B00146] Powder coated or anodised aluminium sections shall be cleaned with soft rags or sponge using gentle washing agents (pH between 5 and 8). Do not use alkali or acid based products, which may damage the oxide surface layers. Also, do not use any abrasive materials, rags with metallic fibres etc. After cleaning, thoroughly rinse the surfaces with clean water.

[B000029] Dry, clean and very soft, preferably cotton fabrics, must be used to clean the panes in glazing (windows, glazed aluminium profiles). Non-scrubbing cleaning agents, e.g. wash-up liquid with neutral pH value may be used, but it is recommended to perform a trial on a small surface previously. The pane must be rinsed with water thoroughly before cleaning (it is not recommended to use high-pressure cleaning appliances) in order to remove particles of impurities and dust that may cause scratching of pane surface. It is not recommended to use cleaning agents that contain alcohol or solvents (they cause permanent tarnishing of pane surface).

### [C000017] Activities, which may be performed by a Competent Person having correspondent permissions.

[C000363] Perform ongoing maintenance at least once every 6 months. The standard maintenance requires the following actions to be completed:

#### Lock

- Check the pawl and lubricate if necessary.
- Check the lock fastening bolts and tighten them if necessary.
- Check that the lock works correctly.

#### Hardware

- Check the fastening bolts and retighten them if necessary.

#### Lock cylinder

- Use special protective substance for lock cylinders.

#### Door closer

- Check the fastening on the leaf and the frame.
- Adjust the door closer, set the closing speed and the shutting force according to the manual provided by the door closer manufacturer.

#### Gaskets

- Check the gasket wear and replace if necessary/

#### Product marking

- Check whether the nameplate is legible, clean if necessary.



**Failure to complete the aforementioned tasks may result in injury of persons or damage to objects nearby the product leaf.**

[C000362] **Actions to be performed by a professional fitter:**



**Have an authorised service agent perform a periodic inspection every 12 months. If the device is subject to intensive operation, perform the periodic inspection at least every 6 months.**

All modifications shall be approved by "WIŚNIEWSKI" Sp. z o.o. S.K.A.  
 The scope of works during the periodic inspection performed by the "WIŚNIEWSKI" Sp. z o.o. S.K.A. authorised service agent:

- identify the product: its type and serial number;
- check the markings and warning labels and replace if they are missing;
- check the fasteners: pins and bolts
- check the condition of assemblies which have a direct impact on the safety and correct operation of the product,
- check the tightness and correct mounting of all fasteners,
- if any faults are found, they must be removed in accordance with the Installation and Operating Manual,
- note to the operating conditions, if they are not in accordance to the requirements, inform the owner about the possible consequences (e.g. a possible defect).

[B000148] **Actions to be performed only by authorised service agents of "WIŚNIEWSKI" Sp. z o.o. S.K.A.**

- any modifications of doors and windows,
- repairs of door or window components.

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 [A000012] **"WIŚNIEWSKI" Sp. z o.o. S.K.A. 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.**  
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