



RKDOORSYSTEMS

Let's make an entrance

# PIVOT

## OPERATING MANUAL

v. 02/2022

### Hinge types:

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**STANDARD 250** hinge  
Door leaf weight up to 250 kg



**PREMIUM** hinge  
Door leaf weight up to 500 kg, low doorstep



**PREMIUM** hinge  
Door leaf weight up to 500 kg, standard doorstep



**PREMIUM hinge with a door closer**  
Door leaf weight up to 500 kg, low doorstep



**PREMIUM hinge with a door closer**  
Door leaf weight up to 500 kg, standard doorstep

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## SYMBOL KEY



Warning



Important note



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Door leaf weight up to 500 kg, standard doorstep



Fork spanner



Flathead screwdriver



Phillips screwdriver



Hex wrench

## PRODUCT INFORMATION

**Dear Customer,  
Congratulations on the purchase of your front door from RK Door Systems Ltd.**

Congratulations on the purchase of your front door: RK Door Systems Ltd. We are proud that our door will be a flagship of Your home. RK Door Systems Ltd. is a reliable, solid, and trustworthy manufacturer. RK Pivot Doors move away from standard side mounted hinges thus enabling spectacular in size and weight of the door leaf. The pivot point has been shifted to the upper and lower part of the door. Our products are marked not only by state-of-the-art design but also by their top performance quality. The technology used by us is innovative and responsive to the environmental care and energy saving. If you follow our recommendations your door will operate reliably for years.



This manual includes recommendations on correct assembling, adjustment, and operation. It is meant for a Professional Installer but should be also read carefully by the product Owner/ User, as it contains a list of tips and recommendations related to the operation and use of the RK Door Systems Ltd products.



It is recommended to use the service of an experience of a Professional Installer in order to avoid assembling mistakes resulting in operational irregularities and possible loss of the guarantee rights. The manufacturer shall not be liable for assembling mistakes, and damages attributable to such mistakes shall be excluded from the guarantee.

Before you start with any assembling read this manual carefully.

**NOTE!** The weight of a door leaf may be up to 500 kg! Special care should be taken. Being crushed can cause heavy or deadly injuries. Provide adequate number of personnel supporting door leaf disassembly.

### Product intended use

Aluminium doors from RK Door Systems Ltd are meant for closing door openings in external walls of detached residential houses, multi-family residential, and public utility buildings. The product selection and its assembling should be based on the building technical documentation and compliant with the effective legislation.



### Conformity

Aluminium doors from RK Door Systems Ltd meet the requirements specified in the European Union directives - on the safety of use, health protection and environmental protection. While marking the product the manufacturer declares to meet the requirements of all the applicable directives.

PN-EN 14351-1+A2

<b>Manufacturer:</b>	RK Door Systems Ltd
<b>Model:</b>	
<b>Profile:</b>	
<b>Seller:</b>	

### Contact us for questions

Should you have additional questions concerning this manual do not hesitate to contact the Seller or the Manufacturer:

#### **RK Door Systems Ltd**

Lower Marston  
St Clement  
Truro  
TR1 1SZ

Phone: +44 1872 222300  
E-mail: [info@rkdoorsystems.co.uk](mailto:info@rkdoorsystems.co.uk)

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## **GUARANTEE CONDITIONS**

### **Guarantee period**

The Manufacturer grants the guarantee:

1. for the period of 2 years upon the date of product delivery to the Customer, including:
  - integrated fittings,
  - electronic elements,
2. for the period of 5 years upon the date of product delivery to the Customer, including:
  - glass units
  - coating durability of powder coated and foiled aluminium doors.

### **Guarantee statement:**

During the guarantee period the Manufacturer undertakes to rectify all the defects of the RK Door Systems products, resulting from a material defect or attributable to the Manufacturer, and possible to be documented, by means of free of charge replacement of a defective product with a defect free product or its repair, or if this turns out to be impossible, reimbursement of its value.

The Manufacturer will decide on the way of handling a complaint.

The Manufacturer will not bear the costs of assembling and disassembling.

The replaced parts are property of RK Door Systems.

This guarantee does not exclude, limit or suspend the purchaser's statutory warranty rights applicable to defects of sold goods.

### **Guarantee scope:**

- hidden defects (any and all product defects of which the purchaser was not aware at the moment of signing the contract), material and assembling defects (originated at the Manufacturer) revealed at the product receipt by the Customer;
- correct and durable connections of all the elements of the products and their operation.

### **Out of guarantee scope:**

- defects and damages revealed at the time of the purchase;
- mechanical damage, such as cracks and scratches;
- mechanical damage resulting from incorrect or not careful handling;
- product damage, including glazing, occurred after its receipt;
- defects and damage related to incorrect assembling, transportation, storage or operation;
- damage caused by the use of detergents harmful for the coating of aluminium profiles, fittings, glazing and gaskets, causing scratches or pits of the coating (the door Service Book, p. 5-6);
- products modified without the Manufacturer's consent;
- defects that remain invisible upon the assembly and have no impact on the product use value (e.g. door frame scratches);
- minor irregularities of dimensions, construction and coated surfaces that are not noticeable from the distance of 3 m (outdoors) i 2m (indoors), at day light;
- products not paid in full;
- products used not according to their intended use;
- products assembled despite visual defects discovered during or prior to the assembling;
- products not assembled by a professional installer recommended by the Seller (dealer);
- electrical elements not installed by a professional electrician;

- 
- damage caused by weather conditions due to no appropriate roofing recommended by the Manufacturer – see: “Operational notes”, p. 5 of the door Service Book;
  - doors damaged or alternated by adverse weather conditions;
  - products damaged during burglary or as a result of the Force Majeure circumstances (natural calamities, fire, explosion, flooding);
  - products damaged by of an unauthorized person;
  - electrical systems connected in a different way than recommended by the Manufacturer;
  - irregularities in measurement taken by the Seller (dealer);
  - products preserved and/ or maintained in a different way than specified in the door Service Book;
  - minor colour variance between the colour standard and actual colour of the product surface;
  - products with a bimetallic defect or other natural physical phenomena not having impact on the product functionality.
  - surface deformation caused by the bimetallic effect is allowed up to 4.0 mm, according to RAL-GZ 695, and it is a natural physical phenomenon.

### **Reporting a complaint:**

In case of a product damage the purchaser shall notify the Seller (dealer) promptly.  
Complaints should be submitted by means of filling in a complaint available under the QR code.

### **Complaint handling under the guarantee:**

The Manufacturer shall handle a complaint within 14 days upon its receipt.  
If a complaint is acknowledged the Manufacturer shall fulfil its guarantee obligations in one of the following ways:

- defect rectification (repair)- within 21 days upon the written confirmation of the complaint decision by the Seller (dealer);



In case a complicated repair is required the Manufacture reserves the right to extend the repair deadline. In case timely defect rectification is impossible due to adverse weather conditions the Manufacturer will fulfil its guarantee complaint obligations once the conditions disabling the defect rectification according to the processing requirements, are over.

- replacing the products with a defect free one within 10 weeks upon a written confirmation of the complaint decision by the Seller;
- in case of no other possibility – reimbursement of the product value, within 30 days upon a written confirmation of the complaint decision by the Seller.

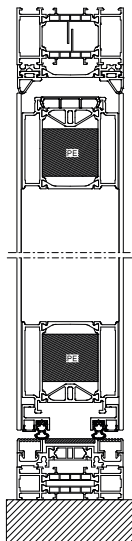
## CONSTRUCTION VARIANTS

applicable variants:



### 250 STANDARD hinge **W1**

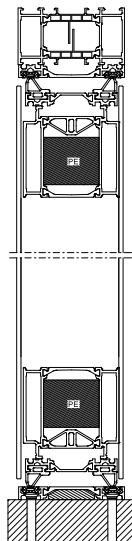
- Door leaf weight up to 250 kg.



[fig. 1]

### PREMIUM hinge **W2**

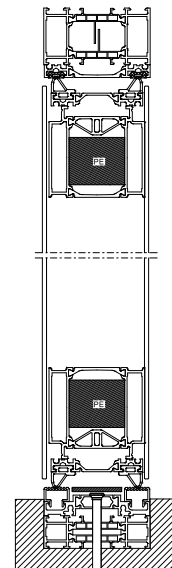
- Door leaf weight up to 500 kg.
- Low assembly threshold height 9mm.
- Installation on a finished floor



[fig. 2]

### PREMIUM hinge **W3**

- Door leaf weight up to 500 kg.
- Standard doorstep installation.
- Installation on a low threshold with the possibility to sink the threshold into the floor



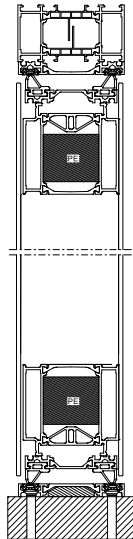
[fig. 3]

**ATTENTION:** The threshold should protrude a minimum of 9mm from the finished floor

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**PREMIUM hinge  
with a door closer** <sup>W3</sup>

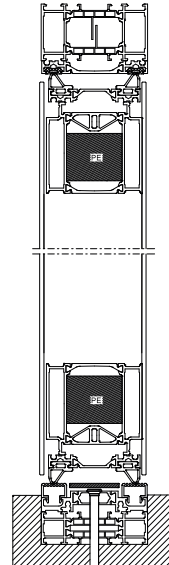
- Door leaf weight up to 500 kg.
- Low assembly threshold height 9mm.



[fig. 4]

**PREMIUM hinge  
with a door closer** <sup>W3</sup>

- Door leaf weight up to 500 kg.
- Standard doorstep installation.



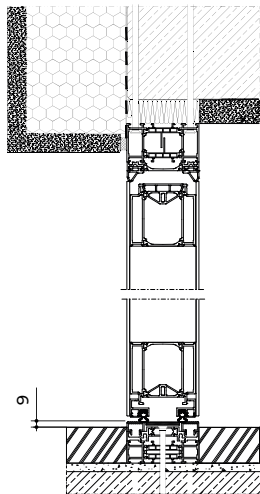
[fig. 5]

## MOUNTING METHODS

- Installation to a standard doorstep with an option of a 23 mm extension and embedding the doorstep in the flooring;
- Installation to a low doorstep without possibility of embedding the doorstep in the flooring;
- Installation to a chipboard doorstep;
- Installation directly to the flooring;

### Method 1

Installation to a standard doorstep with an option of a 23 mm extension and embedding the doorstep in the flooring.

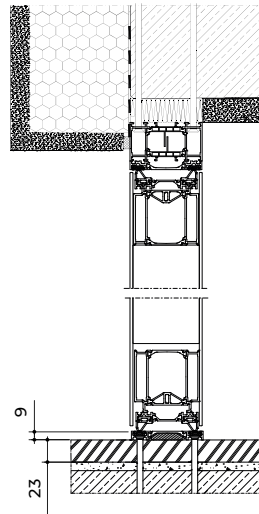


250 STANDARD hinge 

[fig. 6]

### Method 2A

Installation on a low threshold without the possibility to sink the threshold into the floor.

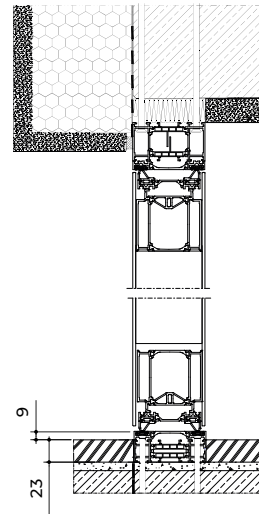


PREMIUM hinge    

[fig. 7]

### Method 2B

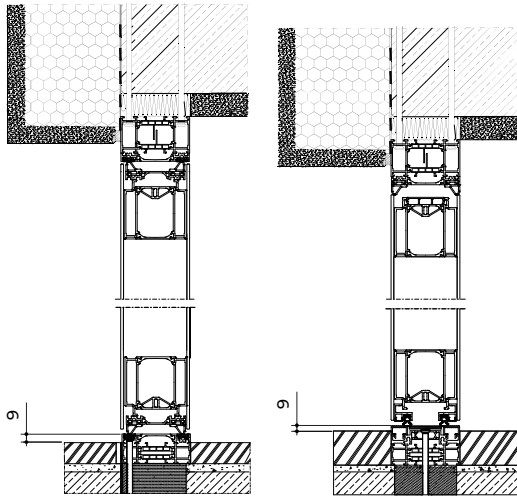
Installation on a low threshold with the possibility to sink the threshold into the floor.





### Method 3

Installation to a chipboard doorstep.



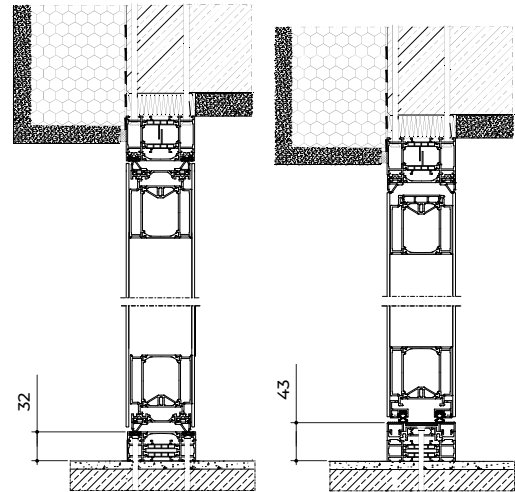
PREMIUM hinge W2 W3 W4 W5

250 STANDARD hinge W1

[fig. 8]

### Method 4

Installation directly to the flooring.



PREMIUM hinge W2 W3 W4 W5

250 STANDARD hinge W1

[fig. 9]

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## I. INTRODUCTION TO ASSEMBLING

- RK Pivot Doors are packed in wooden shipping crates and shrink-wrapped.
- In order to unpack the door correctly and to avoid its damage place it horizontally on a platform (e.g., on a workshop stand) and remember to protect the surface against scratching. Then unscrew and remove the covers carefully.



Pay special attention not to damage the door surface or ancillary elements.

- We deliver fabricated and preliminarily adjusted door. The completeness of the set should be verified. additional elements such as: spacers, flat bars, angle bars, glazing, are delivered in separate individual packaging.



Should you notice any missing elements or discrepancy between the product received and the ordered one contact the Seller immediately prior to starting the assembling and keep all the packaging as it will be required in case of a complaint. Please, remember that complaints for missing items or transportation damage shall not be considered once the door has been assembled.

### **Protect your door**

- During the installation and further construction works the door should not be exposed to splashes of lime or cement. The consequent stains often may turn out impossible to be removed.
- During the door assembly and locksmith work protective clothing shall be used and the applicable OHS regulations and standards shall be observed.
- If during the assembly elements from various suppliers/ manufacturer are used, the installer shall be considered as the manufacturer of the finished product.
- It is forbidden to handle the door holding it by a door handle/ handrail.
- External doors from RK Pivot Doors have been designed to be installed in reinforced concrete walls, brickwork, steel frames, etc.

### **Correct storage of a not installed product:**

- Prior to the product installation all its parts should be stored in clean, dry, and closed facilities where they will not be exposed to adverse impact of weather conditions or damage of the paint coatings. The warehouse flooring should be flat, dry, and paved.
- Doors should be stored in an upright position.
- The door surface should be protected against scratches.

### **Correct assembling conditions:**

- Doors should not be assembled during intense sun exposure. Excessive temperature may result in deformed construction thus causing incorrect assembling.
- The assembling should be performed in a finished room – plastered, with flooring, free from any pending fitting out works that might result in the product damage (sanding, plastering).
- The floor should be levelled.
- The room should be ventilated adequately.
- If doors are to be installed in a building where a heat recovery ventilation system is used, the spacing of ventilation elements should be provided for:

### Pre-assembling steps:

- Checking if the wall type enables the assembling.
- Checking the height of the flooring and door mounting variants (see: page 8 - 9).
- Checking the dimensions and the uprightness of the door opening taking into consideration assembling clearances.
- Checking the doorframe uprightness and levelling status.
- Checking if the width of the upper part of the doorframe is equal to the width of its lower part.
- Checking if the doorframe diagonals are equal.
- Providing for the special doorstep structure –under door profiles (see: page 8 - 9).



The level used should be at least 2 m long or laser alignment should be used instead.

### Installation of RK PIVOT Aluminium DOORS:

- It is recommended by the Manufacturer to assemble following one of the variants described on pages 19 - 22.
- Upon mounting the anchors or installing the tack bolts in w originally provided bores the door or the doorframe should be installed in a door opening.
- Upon mounting the door or the door frame, the element should be locked by means of building wedges and spacing elements. It is necessary as inadequate support of the doorframe may result in its expansion during the subsequent assembling steps.
- It is recommended to block the door frame diagonally from the hinge side.
- Upon checking vertical and horizontal alignment, door installation with tack bolts or anchors can be started.
- Due to a potential error of a level, it is recommended, upon preliminary mounting, to install the door leaf and check its closing capacity and make sure that its operation is correct.
- Check if the door leaf aligns to the doorframe. If needed the preliminary mounting should be corrected. If the door opens easily and smoothly, installation can be continued.
- If assembling is performed with tack bolts fittings of the door/ door frame should be disassembled.
- Upon mounting completion foam application can start. It should be performed with the door leaf closed. The space between the wall and the doorframe should be clean and dry. The Manufacturer recommends the use of low-pressure foam.
- The door frame needs to be installed firmly.
- During foam application building wedges should remain between the doorframe and the wall. They can be removed only once the foam has been fully cured. Then the wedges should be cut off and processed. The recommended spacing elements should stay.
- Wedge cavities should be filled with foam and left for curing.

### Assembling mistakes:

In order to avoid assembling mistakes bear in mind the following:

- once the door is closed the doorframe diagonals should be of equal length;
- the side plays between the doorframe and the door leaf should be equal;
- the door leaf opens smoothly and lightly, and adheres in line with the doorframe;
- the connecting elements are fitted and tightened correctly;
- the space between the wall and the doorframe is sealed correctly with low-pressure foam;
- the entire additional equipment of the door is fully operational;
- the doorframe is not significantly covered by the lining frame.

Failing to observe the above recommendations may result in impaired functionality of the product, and thus the loss of the guaranty rights.

### Environmental protection:

Used packaging should be managed according to the effective environmental protection regulations. An end-of-life product should be dismantled; the parts should be segregated and delivered to an appropriate recyclables collection service. RK aluminium doors are marked according to the European Directive 2012/19/EU on waste electrical and electronic equipment. This means that an end-of-life product may not be disposed together with household waste. End-of-life equipment should be transferred to an electrical and electronic waste collection service. Appropriate management of electrical and electronic waste contributes to the environmental protection.

### Information on disallowed use:

- Do not block the door leaf operating area. Make sure there are no people, animals or objects in the way of its operation or its catch.
- No people or animals can stay, and no objects can be left in the clearance of an open door.
- Remodelling, modifying or removing structural elements may cause damage to the parts ensuring safe use of the product and/or result in loss of the Manufacturer's guarantee.



Warning! Accident hazard. It is strictly forbidden to use non-operational products. Should any functional irregularities or damage of the door/ units be identified, the use should be discontinued promptly and an Authorized Service Provider should be consulted.

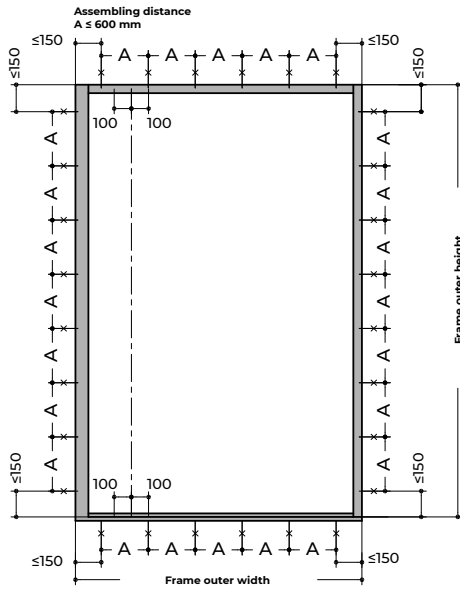
### Operational notes:

Conditions required for ensuring correct and long-lasting usability:

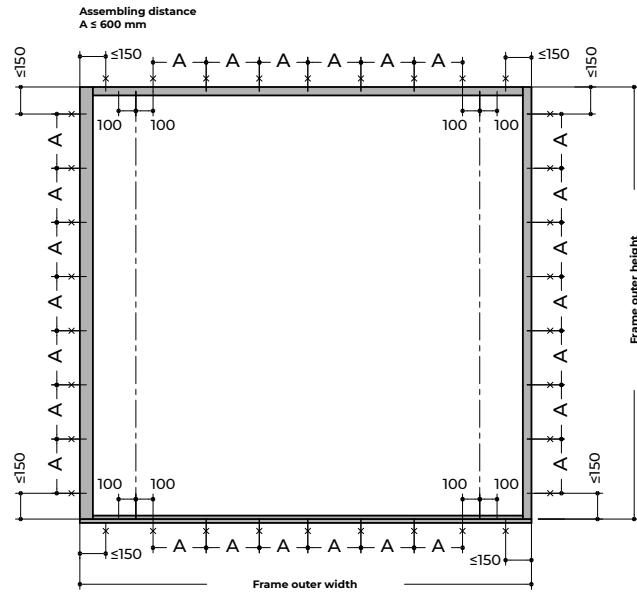
- the product may not be exposed to adverse environmental and weather conditions;
- the product may not be exposed to contact with aggressive chemicals, such as acids, alkali or salts;
- the product should be protected against paint and solvent splashes;
- the product should not be exposed to contact with lime, cement, alkaline or cleaning materials (e.g., bleaches, abrasive pastes);
- any and all construction and finishing works may be performed only in case of necessity. If the product gets smudged it should be rinsed immediately to avoid drying out;
- In case of the product irregularities observed during its operation (opening/ closing) or excessive resistance, the correctness of the assembling should be reviewed and in case mistakes have been identified; adjustments should be made according to this manual;
- It is recommended to roof the entrance in order to protect the door against adverse weather conditions (atmospheric precipitation and excessive sun exposure), by means of installing a canopy (for doors installed in straight walls) or by installing the door in a recess. The roofing should overreach the width of an open door wing to give shade, especially during midday sunlight;

- 
- In order to protect the door wing against impact damage (door slamming, wind blast, etc.) a door stop should be installed;
  - While selecting the door colour its exposure should be considered – darker colours exposed to sunlight may heat up to 80 degrees Centigrade. So high temperature may cause the door leaf bending with adverse effect for its integrity (bimetallic effect) and cause burns due to the intensely heated surface;
  - In case of overheating (e.g., by intense sunlight exposure), the door leaf may bend, i.e., the so-called bimetallic effect may occur. It impacts the door closing proper functionality and its integrity, especially on hot and very cold days when the difference between the outdoor and indoor temperature is the highest. This process may be minimized by means of proper protection of the entrance, e.g., by installing roofing or the third middle hinge. It is a natural physical phenomenon;
  - Large glazed structures should not be installed near the door, especially in sun exposed locations, as there may be significant indoor and outdoor temperature differences. Direct sunlight exposure causes overheating, thus resulting in the bimetallic effect;
  - In rooms of elevated humidity adequate ventilation should be provided in order to avoid the condensation effect;
  - It is not recommended to install ventilators or other heating elements in immediate vicinity of the door. They may cause condensation on the inner side of the door, especially in winter;
  - Door slamming should be avoided – it may cause damage to the door frame, door leaf or other structural elements.

## 1.1. Correct anchor spacing



[fig. 10]

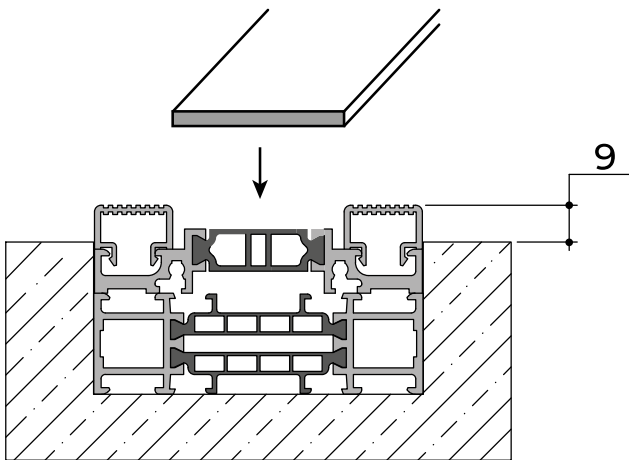


[fig. 11]





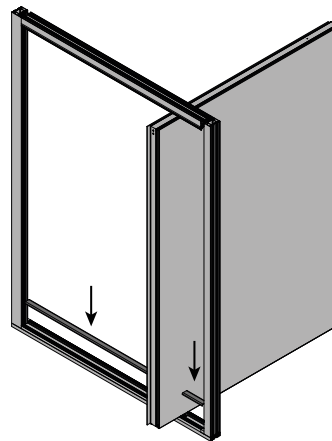
Doors are delivered together with lower doorstep covers (2 pcs per single door leaf and 4 pcs per double door leaf). Upon completion of assembling they should be installed according to the following drawing.



250 STANDARD hinge 

PREMIUM hinge    

[fig. 14]



**ATTENTION:** Not applicable to installations with a low threshold.

[fig. 15]



## 1.2. Chipboard doorstep installation

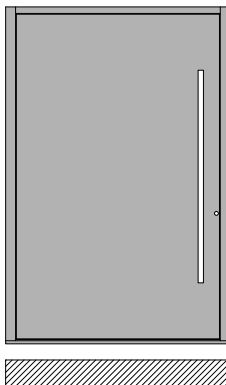


Wood screws should be used for installation. Their size depends on the doorstep height.

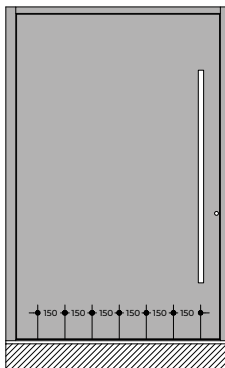


For optimal integrity of the door sealing should be used prior to placing the structure on a doorstep (Fig. 18).

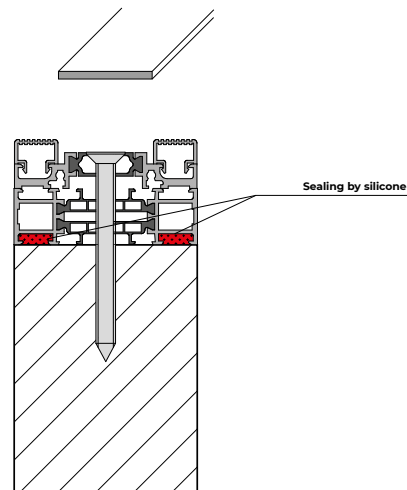
1. Place the structure on the doorstep (Fig. 16).
2. Set the door leaf at the angle of 90° to get access to door openings.
3. Screw the structure down to the doorstep (Fig. 17).
4. Cover with a masking profile (Fig. 15).



[fig. 16]



[fig. 17]



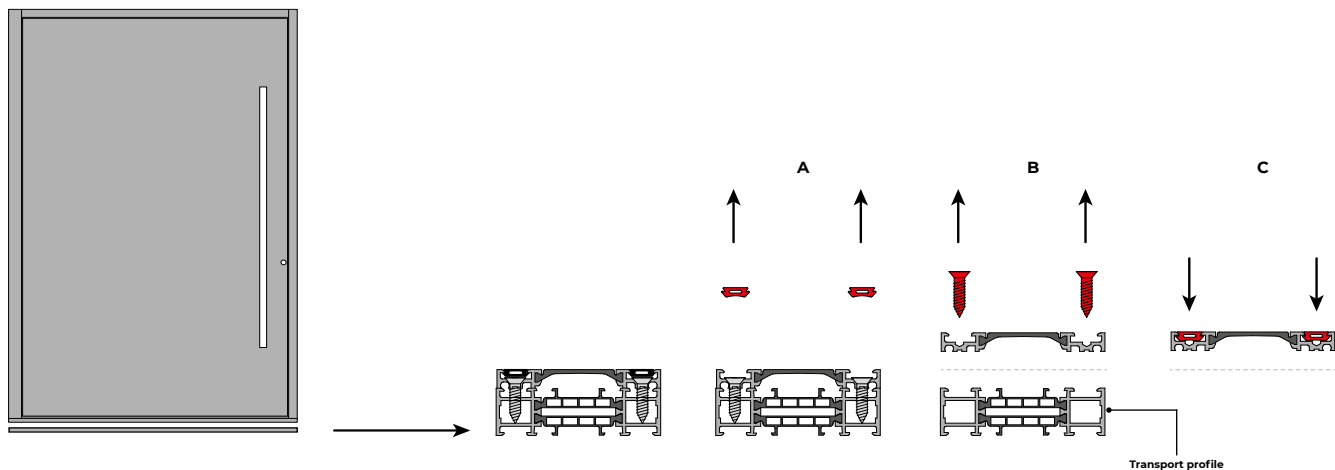
[fig. 18]

### 1.3. Disassembling the transport profile



A transport profile is used only in the case of low doorstep structures. It should be disassembled prior to mounting the door in a door opening (refers to **PREMIUM** hinge).

1. Disassemble the door leaf (see: page 23).
2. Place the door frame on pre-set workshop stands.
3. Remove doorstep gaskets **A**.
4. Untighten fixing screws of the transport profile **B**, located in the lower part of the frame (existing bores should be used for further anchoring).
5. Upon anchoring completion install gaskets **C** back in place.



[fig. 19]

## 2. ASSEMBLING

### 2.1. Assembling with tack bolts



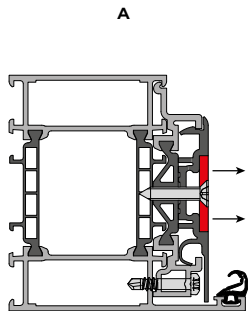
Assembling with tack bolts requires disassembling the door leaf (see: page 23).



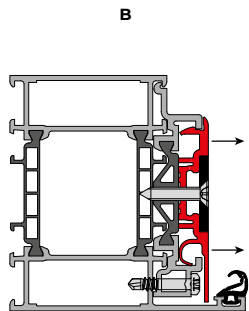
Place the fixing screws according to the spacing (see pages 14, 15) and drawing 22 page 19.

Assembling with tack bolts requires:

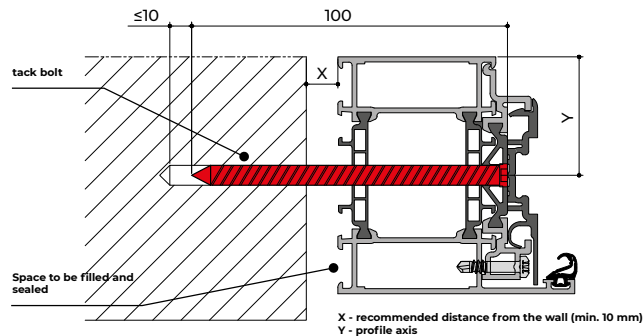
- disassembling a fixing strip of the lock **A**.
- disassembling side adapters from the frame **B**.



[fig. 20]



[fig. 21]



[fig. 22]

## Anchoring through the door top profile

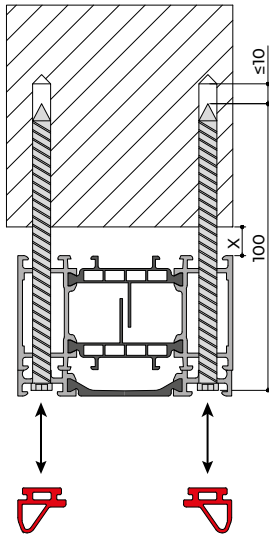


Anchoring through the door top profile requires disassembling the gaskets.

### Option 1

applicable variants:

W1



[fig. 23]

### Option 2

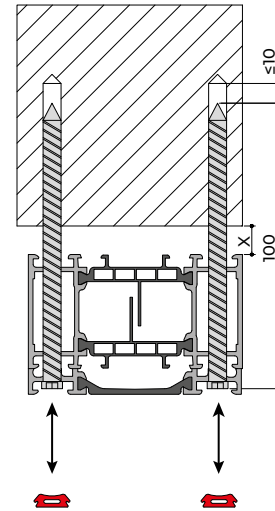
applicable variants:

W2

W3

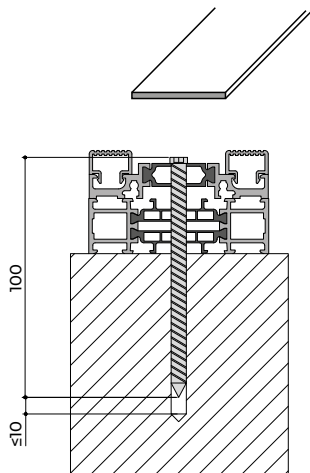
W4

W5



[fig. 24]

## Anchoring through the bottom doorstep



[fig. 25]



Once the doorstep has been anchored it should be protected with a special cover enclosed to the door unit (2 pcs) See: correct anchoring instructions – cover installation (see: page 16).

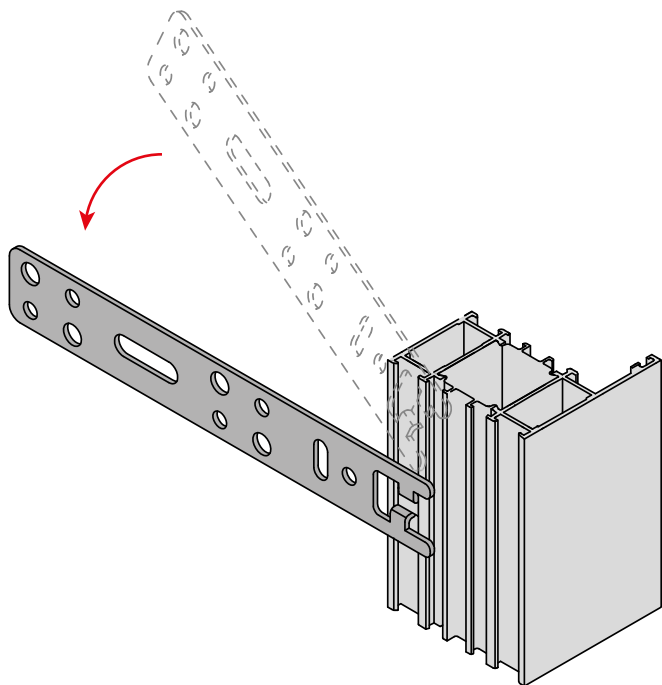


In the case of anchoring through the bottom doorstep use the existing bores for further installation steps.

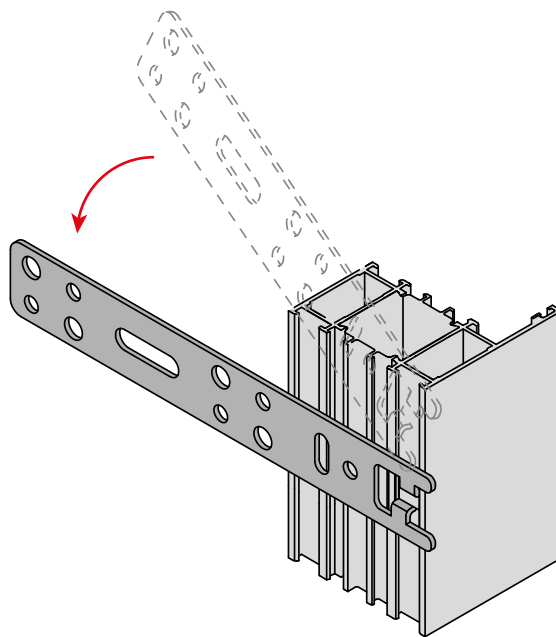
## 2.2. Assembling with anchors



NOTE! Assembling with anchors does not require disassembling the door leaf. Once the anchors are installed proceed with mounting the structure in the door opening. See construction drawings on pages 14 - 15.



[fig. 26]



[fig. 27]

### 3. DISASSEMBLING THE DOOR LEAF

#### 3.1. Standard hinge

applicable variants: **W1**



NOTE! Check the hinge type of your RK Pivot Doors on the cover of this manual RK Pivot Doors (variants described as W1, W2, W3, W4, W5).



NOTE! The weight of a door leaf may be up to 250 kg. Special care should be taken. Being crushed may cause heavy or deadly injuries. Provide adequate number of personnel supporting door leaf disassembly.



While unscrewing the upper hinge bolt protect the door leaf from fall or damage. Pay attention to its weight and dimension.

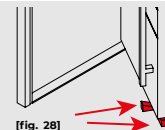


If the door contains a cable feedthrough, first disconnect the door from the power supply.

1. Set the door leaf at the angle of 90°.
2. Support the leaf by means of wedges from the fixing strip side to avoid dropping.



To avoid the door dropping during disassembling support it before you start work.



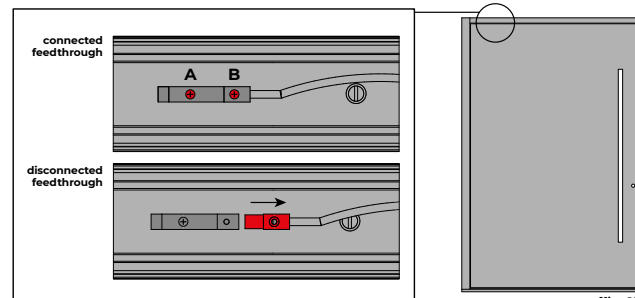
[fig. 28]

#### OPTIONAL:


If the leaf contains a cable feedthrough, untighten through bolts **A** and **B** located in the upper part of the frame.

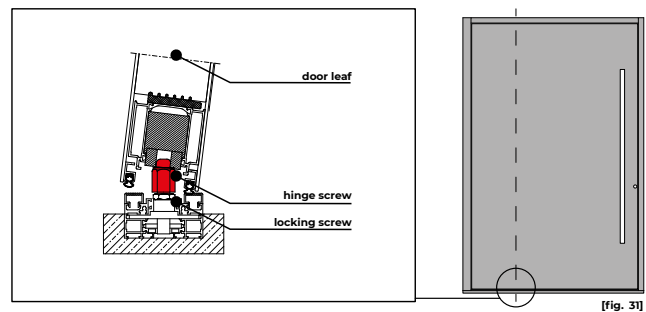
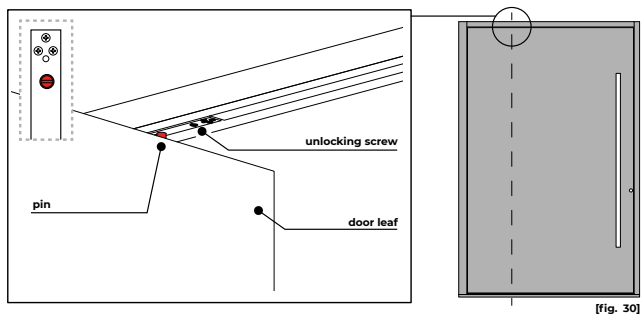


NOTE! Prevent door leaf damage during disassembly (coating damage, dents, etc.)

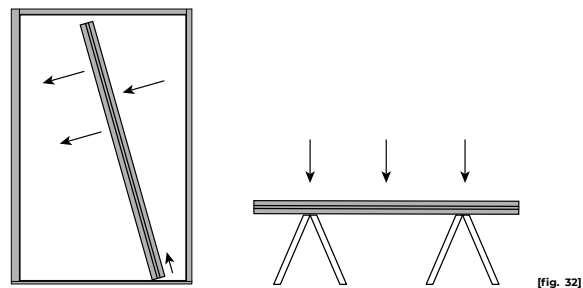


[fig. 29]

3. Untighten the unlocking screw with a flathead screwdriver . The upper joint pin will hide in the frame. **At this point the leaf will be supported solely on the lower screw of the hinge.**



4. For disassembling tilt the door leaf towards the fixing strip and lift it slightly.
5. Place the door leaf carefully and safely on pre-set workshop stands, in a horizontal position. This prevents damage of the bottom gaskets will be avoided.



Assembly the door leaf following the sequence of operations in inverse order.



When the installation is complete, make sure that the pin release screw is tightened, the pin is located in the second part of the hinge on the door sash [Fig. 30].



### 3.2. PREMIUM hinge

applicable variants:



NOTE! Check the hinge type of your RK Pivot Doors on the cover of this manual (variants described as W1, W2, W3, W4, W5).



NOTE! The weight of a door leaf may be up to 500 kg. Special care should be taken. Being crushed may cause heavy or deadly injuries. Provide adequate number of personnel supporting door leaf disassembly.



While unscrewing the upper hinge bolt protect the door leaf from fall or damage. Pay attention to its weight and dimension.

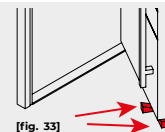


If the door contains a cable feedthrough, first disconnect the door from the power supply.

1. Set the door leaf at the angle of 90°.
2. Support the leaf by means of wedges from the fixing strip side to avoid dropping.



Before starting the work, the door should be supported to avoid dropping during disassembly.



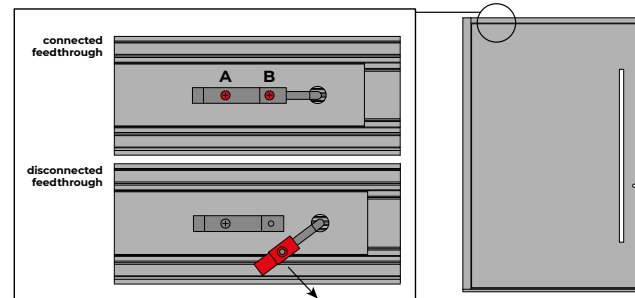
[Fig. 33]

#### OPTIONAL:

If the leaf contains a cable feedthrough, untighten fixing screws **A** and **B**, located in the upper part of the door leaf.

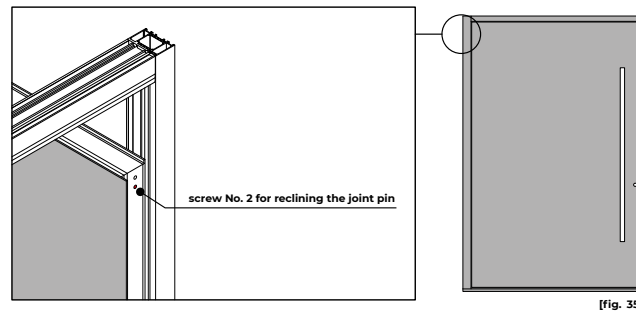


NOTE! Prevent door leaf damage during disassembly (coating damage, dents, etc.)

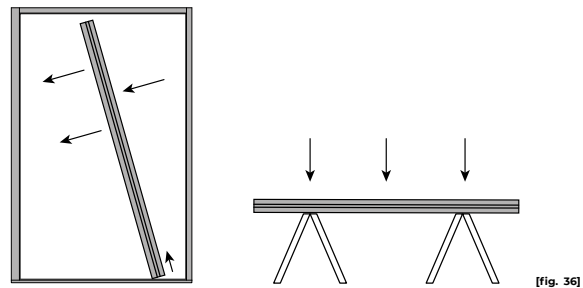


[Fig. 34]

3. In order to unlock the joint pin untighten screw **No. 2**, located in the top corner of the leaf, on the hinge side (hex wrench **5**).



4. For disassembling tilt the door leaf towards the fixing strip and remove it from the door frame.
5. Place the door leaf carefully and safely on pre-set workshop stands, in a horizontal position.



**i** Disassembling requires the number of persons adequate for the door leaf weight!

**i** Assemble the door leaf following the sequence of operations in inverse order.

**!** Upon completion of assembling make sure that the joint pin unlocking screw has been tightened [Fig. 35].

## 4. HINGE ADJUSTMENT

### 4.1. Upper hinge horizontal adjustment

applicable variants: **W1**

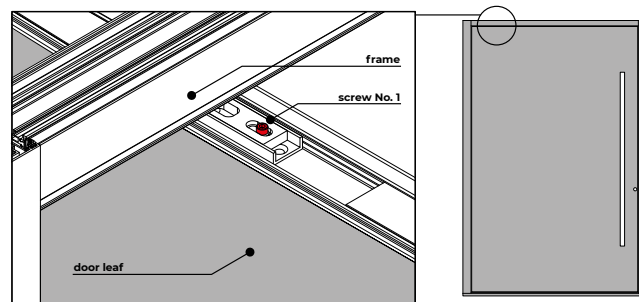


RK Pivot Doors have been preliminarily adjustment prior to delivery to the Customer.



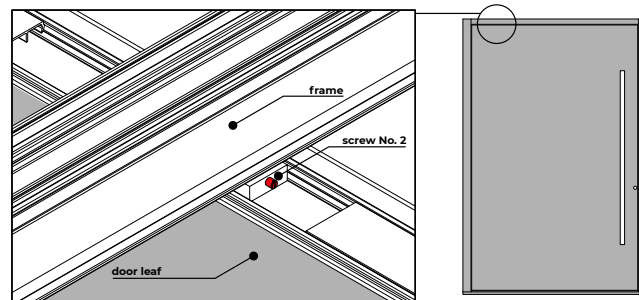
To perform adjustment, you will need a ladder or podium steps.

1. Set the door leaf at the angle of 90°.
2. Ensure comfortable access to the upper part of the leaf from the hinge side.
3. Untighten slightly locking screw **No. 1** with a hex wrench **5**.



[fig. 37]

4. Adjust the leaf horizontal position by adjusting screw **No. 2** with a flathead screwdriver **7**.
5. Once the adjustment is complete tighten again locking screw **No. 1** with a hex wrench **5**.



[fig. 38]

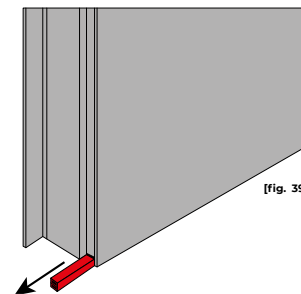
## 4.2. Lower hinge horizontal adjustment

applicable variants: **W1**



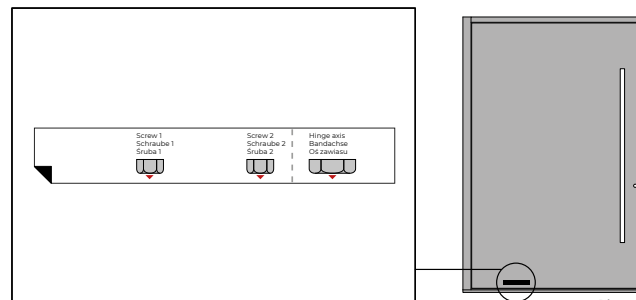
For adjustment use a template included in the kit enclosed with the door.

1. Set the door leaf at the angle of 90°.
2. Eject the lower outer sliding gasket.
3. Close the door leaf.



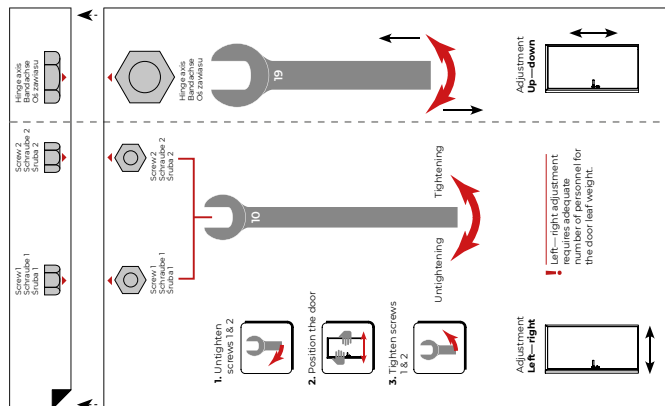
[fig. 39]

4. Locate the marker sticker located in the lower part of the frame.



[fig. 40]

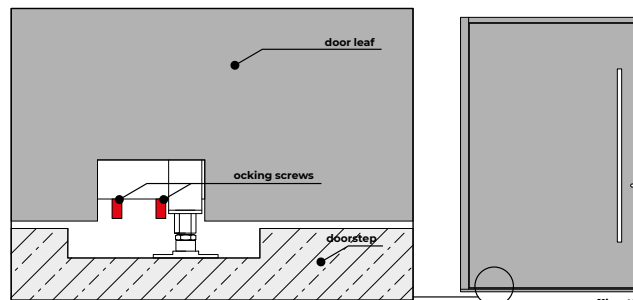
- Place the template, enclosed to the door unit, against the lower part of the door leaf to align with the marking signs.



[fig. 41]

- Untighten the locking screws located under the door leaf and set the door in the position expected.

- Upon completion of the adjustment tighten the screws.




[fig. 42]

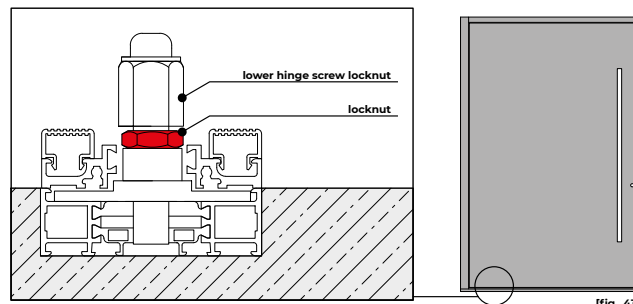
### 4.3. Lower hinge vertical adjustment

applicable variants: **W1**



Prior to the adjustment measure how much the door leaf should be lifted/ declined.

1. Untighten the locknut slightly.
2. Adjust the door leaf height by means of the lower hinge screw with the spanner  **19** enclosed with the door unit.
3. Upon completion of the adjustment tighten the locknut.



Note! One full turn of the lower hinge screw lifts or declines the leaf by ca. 2 mm.

## 5. DOOR LEAF ADJUSTMENT

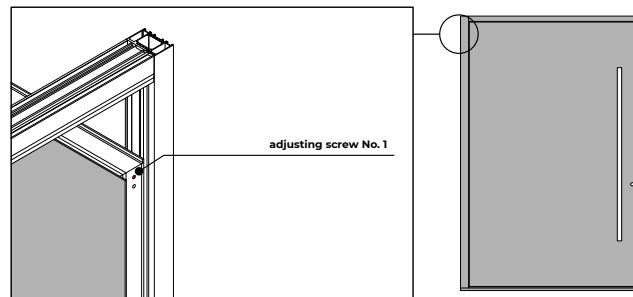
### 5.1. Upper horizontal adjustment

applicable variants: **W2** **W3** **W4** **W5**



Pay special attention to even spacing of the door closing clearances. This guarantees correct operation of the door.

1. Set the door leaf at the angle of 90°.
2. Ensure comfortable access to the upper part of the leaf from the hinge side.
3. Adjust the leaf horizontal position by adjusting screw **No. 1**.



[fig. 44]

### 5.2. Vertical adjustment

applicable variants: **W2** **W3** **W4** **W5**



The hinge position is fixed and does not require adjustment.

### 5.3. Adjustment of a door leaf with a concealed door closer

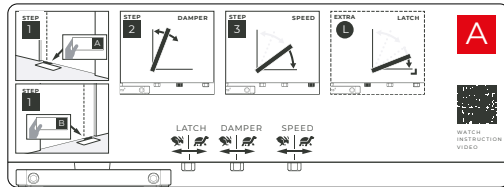
applicable variants: **W2** **W3** **W4** **W5**



An adjustment key has been provided for adjustment of particular parameters. It is recommended to use a mirror for easier access to screws.

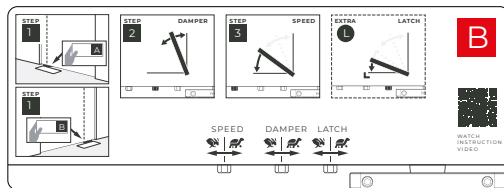
1. Set the door leaf at the angle of 90°.
2. Find the marker (a sticker at the bottom part of the leaf) with adjusting screws indication
3. Adjust the door by means of a mirror and a template included in the kit:

Template for a left hinged door leaf:

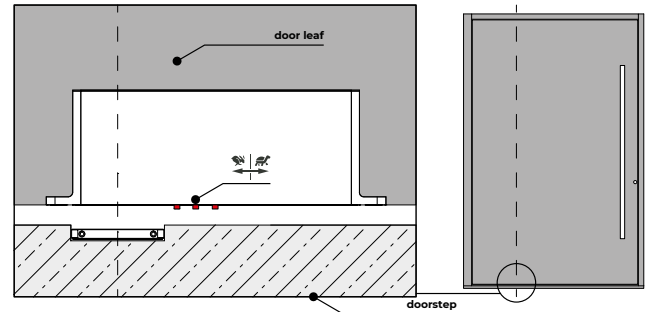


[fig. 45]

Template for a right hinged door leaf:



[fig. 46]





## 5.4. Door adjustment kit



Door adjustment kit shall be retained for potential future use needs.

### Kit I

W1

- hex wrench 5 mm;
- dedicated spanner S19 / S10;
- mirror;
- template.

### Kit II

W2

W3

W4

W5

- hex wrench 5 mm;
- bottom spanner for door closer adjustment;
- mirror;
- template.

## 6. MAINTENANCE OPERATIONS

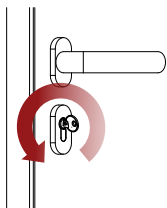
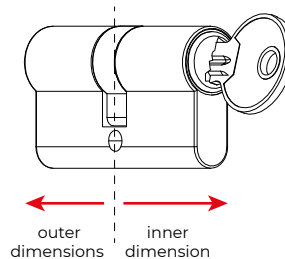
### 6.1. Door lock replacement



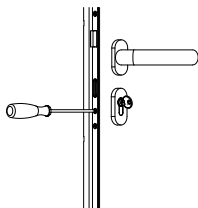
A new door lock needs to have identical dimensions to the original ones. Your door lock dimensions are indicated in the order confirmation.




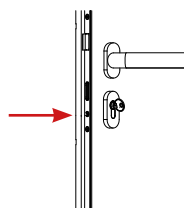
The door lock may not be hammered into the slot!



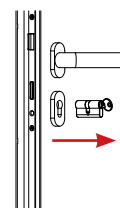
1. Open the door.
2. Insert the key into the lock.
3. Turn the key anticlockwise by 30°.



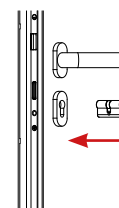
4. Untighten the lock fixing screw .



5. Remove the lock fixing screw.



6. Eject the door lock gently by means of the key.



7. Place the door lock into the slot holding the key turned anticlockwise by 30 degrees. Pay attention to the correct position of the tenon.

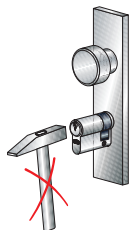


The door lock should be maintained twice a year following the instructions.

**!** The door lock may not be hammered into the slot!!

8. Screw in the lock fixing screw.
9. Check if the lock works correctly.

## 6.2. Door lock maintenance instructions



Place the door lock in the slot.  
Do not push it in by force.



Always insert the key till the  
end of the lock.



Do not pull / push a key  
turned in the lock.



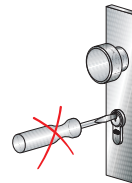
Maintain the door lock every  
6 months by means of the  
spray included in the main-  
tenance kit.



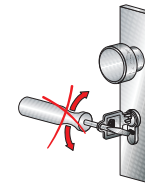
Do not use oil or graphite  
as maintenance agent.



Do not use bent keys.



Do not insert any foreign  
bodies into the door lock slot.



Do not insert any tools into  
the key slot.

### 6.3. Reed switch ES 2111

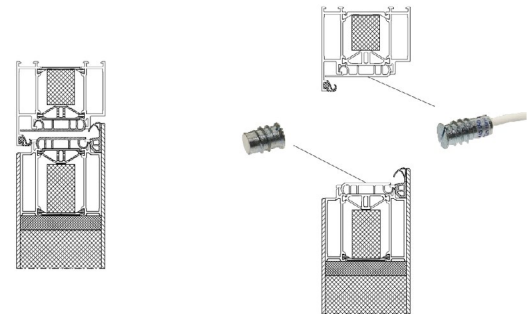
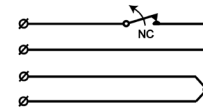
MC 250 is a universal magnetic switch for flush mounting used for burglar and robbery alarm, as well as in access control systems for signalling unauthorized door opening.

#### Assembling instructions:

- The switch and the magnetic part should be installed coaxially.
- The screw shapes of the switch and the magnet casings enable their direct screwing into  $\varnothing 10\text{mm}$  holes, in wooden and plastic substrates.
- The use of MC 250 in/ on ferromagnetic materials is possible only provided appropriate accessories have been applied.

#### Installation:

The part with a reed switch should be installed in a stationary element of the monitored facility (e.g., doorframe); the magnet should be installed in the mobile part of the door. The switch and the magnet should be installed in the doorframe and in the moving leaf of the monitored facility – coaxially. Axial shift decreases the operating span of the sensor. Prior to the assembling work drill  $\varnothing 10\text{mm}$  openings should be drilled. Self-tapping and self-locking threads of the casings provide for easy and reliable installation in wood in plastic, in previously prepared bores.



Prior to screwing the switch part into the bore it is recommended to turn the switch 2-3 times in the opposite direction. In this way mechanical assembly.



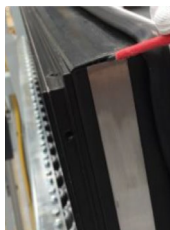
In order to obtain the optimal assembling distance, the magnetic part and the part with the reed should be brought together until the sabotage distance.

Once the installation is complete electrical connections and the sensor operation should be tested by means of an ohmmeter.

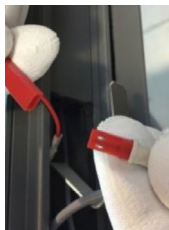


Application of excessive force to the casings during assembly may cause damage to glass parts of the inner reed switches of the sensor.

## 6.4. Replacement of a LED strip in the handrail



1. Remove carefully black plastic covering strip from the upper edge of the door leaf.



2. Remove the protective strip and disconnect the electrical connector.



3. Locate the LED strip.

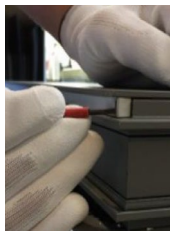


4. Remove the LED strip carefully.

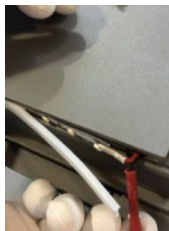


5. Insert a new LED strip into an aluminium strip making sure that the access clearance is airtight. Install the covering strip.

## 6.5. Replacement of a LED strip installed in a door leaf (doorstep)



1. Remove the door leaf from the frame and place horizontally on a safe and even surface.



2. Remove the plug and the covering.



3. Eject the LED strip, install a new one and reconnect the cable.



4. Reinstall the plug and the stopper. Carefully hand the door in the frame again.



Electrical connections

Scan the QR Code



Any and all electrical connections need to be installed by a professional electrician.

## 7. ADDITIONAL INFORMATION

### Activities requiring involvement of an Authorized Service Provider:

Periodic inspection should be performed every 24 months by an Authorized Service Provider. If the device is subject to intense operation (multi-family residential or utility buildings) the periodic inspection should be performed at least every 12 months). Inspections performed should be recorded in the table in page 9 of the "Door service book".

The scope of a periodic inspection to be performed by an Authorized Service Provider:

- product identification,
- checking the marking and filling any gaps,
- checking the tightness and completeness of the connected elements,
- checking the condition of all the units applied and their repair if necessary,
- rectifying any potential defects according to the Manufacturer's instructions,
- evaluation of the product operating conditions and in case of identifying any irregularities sending a written notice to the Owner of the potential consequences of continued incorrect operation,
- any and all modifications of the product.

### Environmental Protection:

RK aluminium doors are marked according to the European Directive 2012/19/EU on waste electrical and electronic equipment. This means that an end-of-life product may not be disposed together with household waste. End-of-life equipment should be transferred to an electrical and electronic waste collection service. Appropriate management of electrical and electronic waste contributes to the environmental protection



The Manufacturer is not obliged to notify of any and all construction changes resulting from the technological advance unless they impact the product functionality.








### Maintenance and care:

Care products from the Pflege-SET enclosed with the door constitute the maintenance kit recommended by the manufacturer for doors from RK Door Systems Ltd. Additional sets can be purchased from the door Manufacturer or Seller.




Technical documentation, including the "Door operating manual" and the "Door service book", constitutes property of RK Door Systems and its contents and graphics may be copied, in full or partially, only upon the Owner's consent



## Additional manuals (QR)


Manuals	Applicable model	QR code
Battery replacement instructions for a surface mounted door viewer.	ES 4030	
Battery replacement instructions for a recessed door viewer, magnet installed.	ES 4035	
Battery replacement instructions for a recessed door viewer, screwed down.	ES 4032	
Door lock maintenance and operational manual.	All models	
Daytime function operation in an automatic lock.	ES 1150	
Operation of an electric strike with the daytime function.	ES 2100	
Door Service Book.	All models	

## FAQ - Frequently Asked Questions

Issue	Cause	Solution	To be solved by the Owner?	Support
Impossible to open electronically closed door (with a fingerprint reader).	No power supply (power supply failure, lightning strike, reader failure, finger damage).	Always remember to have access to a key outside the building as this is the only possibility of opening the door in such a case.	YES	ekey Austria Support Centre T: +43 732 890 500 - 0 E: support@ekey.net
LED lighting does not work.	Incorrect connection of LED lighting.	Check the power supply and the connection correctness.	YES	 QR code for LED replacement
	Dead LED lighting.	LED replacement according to the manual in page 37.	YES	
Fingerprint reader does not react.	Wet or dirty sensor.	Clean and dry the sensor.	YES	 QR code for ekey manual.
	Mechanical damage of the sensor.	Replace the sensor.	YES	
	Soiled fingers / skin damage.	Clean and dry your fingers / program another finger.	YES	
	The sensor has been set incorrectly.	Check the sensor settings according to the supplier's manual.	YES	
Problem with closing the door properly.	Incorrect assembling.	Contact the Seller or a professional installer.	NO	Phone your Dealer:
	Leaf deformation – external/ internal bulge (Bimetal).	Wait until the weather conditions stabilize (temperature, excessive sunlight exposure) or provide shadow.	YES	
	Obstacle / a foreign body stuck between the leaf and the frame.	Check the gasket, clean it, and remove dirt or any impediment to proper operation.	YES	
Water condensation on the inner glass pane.	High humidity or too low temperature in the building.	Air the room to equalize the temperature.	YES	 QR code for room airing advice



## FAQ - Frequently Asked Questions

Issue	Cause	Solution	To be solved by the Owner?	Support
Remote control for ROTO lock does not work/ the lock does not react.	Programming error.	Repeat programming / integration of the remote control with the lock following the manual.	YES	 QR code for ROTO manual.
	The remote-control batteries are empty.	Replace the batteries.	YES	
	Remote control damaged.	Replace remote control for the ROTO lock and reintegrate it with the lock, following the manual.	YES	
Slit between the door leaf and frame is uneven.	Incorrect assembly.	Contact the Seller or a professional installer.	NO	Phone your Dealer:
	Incorrect leaf adjustment after the assembly.	Contact the Seller or a professional installer.	NO	

### Contact us for questions

Should you have additional questions concerning this manual do not hesitate to contact the Seller or the Manufacturer:

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Lower Marston  
St Clement  
Truro  
TR1 1SZ

Phone: +44 1872 222300

E-mail: [info@rkdoorsystems.co.uk](mailto:info@rkdoorsystems.co.uk)







RKDOORSYSTEMS

Let's make an entrance

Authorised Service Provider