



RKDOORSYSTEMS

Let's make an entrance

## **Operating Manual**

Dealer and Installer

v. 02/2022

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**Dear Customer,**  
**Congratulations on the purchase of your front door from RK Exclusive Doors.**

We are proud that our door will be a flagship of Your home. RK Exclusive Doors is a reliable, solid and trustworthy manufacturer. 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 Exclusive Doors 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!

**Contact us**

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

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**Product intended use**

Aluminium doors from RK Exclusive Doors 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 Exclusive Doors 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 Exclusive Doors |
| <b>Model:</b>        |                    |
| <b>Profile:</b>      |                    |
| <b>Seller:</b>       |                    |

Symbol key:



Important information



Important warning!

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## Guarantee conditions

### Guarantee period

The Manufacturer grants the guarantee:

- for the period of 2 years upon the date of product delivery to the Customer, including:
  - integrated fittings,
  - electronic elements,
- 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 Aluminium Robert Karasek 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 Aluminium Robert Karasek.

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 ("Use and care manual", p. 8-9);
- 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. 7 of the "Use and care manual".
- 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 "Use and care manual";
  - 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 (the bending of the door-leaf up to 4.0mm is allowed according to RAL-GZ and 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 7 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.

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## Introduction to assembling

- 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.

- We deliver fabricated door. The completeness of the set: fittings, plugs, anchoring plates, door lock, keys, handrail (the lock keys and the maintenance kit are fixed to the door handle or to the door frame. Other 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.
- f 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 Exclusive 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, rested against its shorter edge. The surface rested against should be protected against scratches.

### Correct assembling conditions

- The front door installation should be avoided in intensive, direct sunlight. Too high an outside temperature can lead to a deformation of the whole front door construction and thus also to an incorrect installation. 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.
- 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.



The level used should be at least 2 m long.

### Assembling an aluminium door from RK Exclusive Doors

- Once the anchors are installed or the frames are drilled for expanders, start mounting the door or the frame in the target opening.
- Upon mounting the door or the doorframe disable the element by means of plater's wedges and spacers. It is necessary as failing to support the doorframe may result in its stretching at the later assembling stages.
- It is recommended to block the door frame cornerwise from the hinge side.
- Once you have checked vertical and horizontal levelling the door anchoring can be started by means of pegs, expanders, etc.
- Due to a potential mistake of a level set it is recommended, upon preliminary anchoring, to install the leaf, check the door closing capacity, and make sure that the door operates well.
- Check if the leaf aligns with the door frame throughout its perimeter. If needed adjust the preliminary anchoring. If the door opens easily and smoothly anchoring can be continued.
- If assembling is done with expanders, the door/ doorframe decorative elements should be uninstalled.
- Once the anchoring is complete foam application can start. It should be done with the door leaf closed. The space between the wall and the doorframe should be clean and dry. The use of low pressure foam is recommended by the manufacturer.
- The doorframe needs to be mounted rigidly.
- During foam application leave the plater's wedges between the doorframe and the wall. They can be removed only once the foam is fully cured. They should be then cut off and processed. Leave the recommended spacers.
- Fill the he wedge gaps with foam and let them dry.

### 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 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 losing 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:

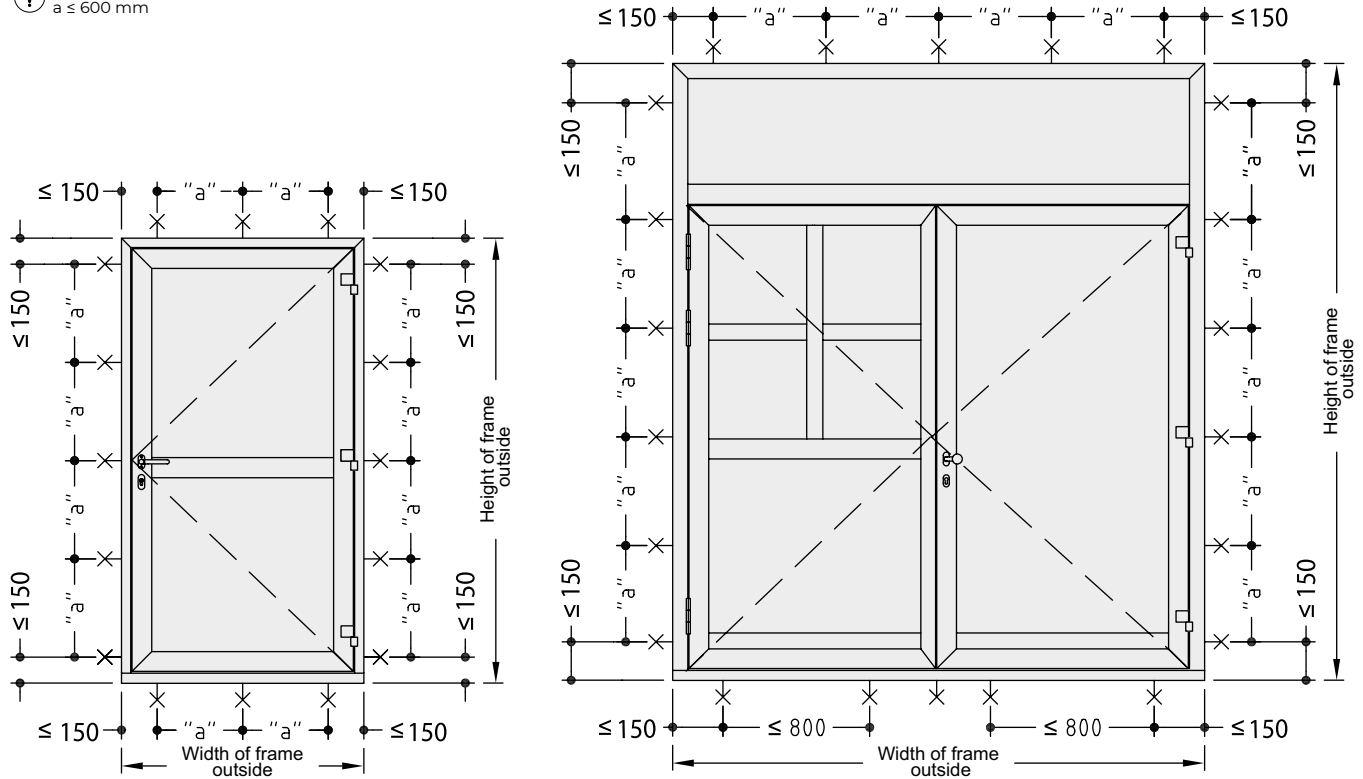
- The product may not be exposed to adverse environmental and weather conditions;
- The product may not be exposed to contact with aggressive chemicals, such as acids, alkali or salts;
- The product should be protected against paint and solvent splashes;
- The product should not be exposed to contact 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. The bending of the door-leaf up to 4.0mm is allowed according to RAL-GZ and 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.



## Assembling of RK Exclusive Doors products

### Correct spacing of the assembling elements (anchors, expanders, screws)

! Fixing spacing  
 $a \leq 600$  mm



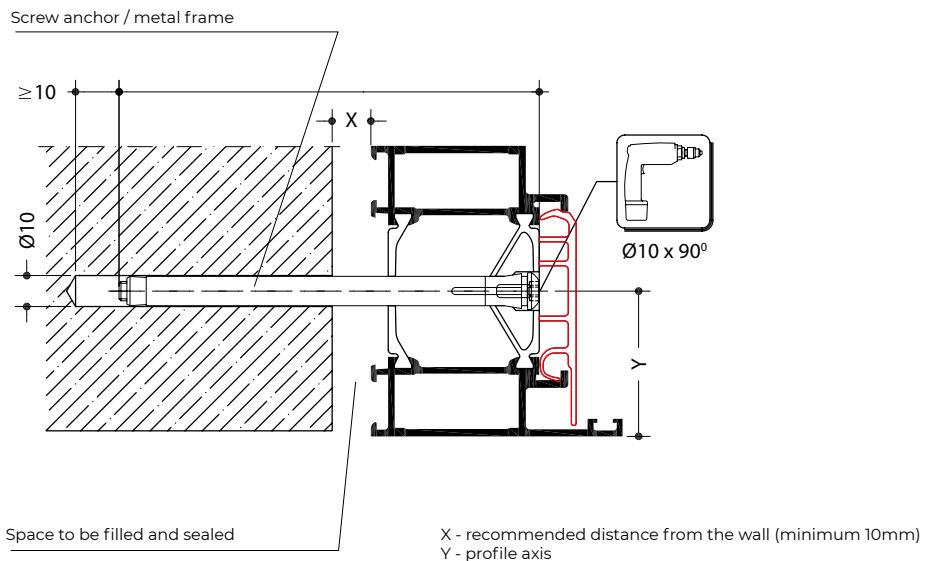
## Assembling of RK Exclusive Doors products

Method



### Assembling with expanders

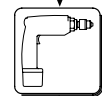
Assembling with expanders is performed by means of drilling the doorframe in the profile axis according to the drawings in page 9.



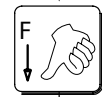
Work sequence



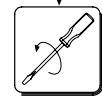
Remove the plug



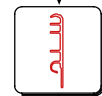
Drill



Insert expander



Tighten



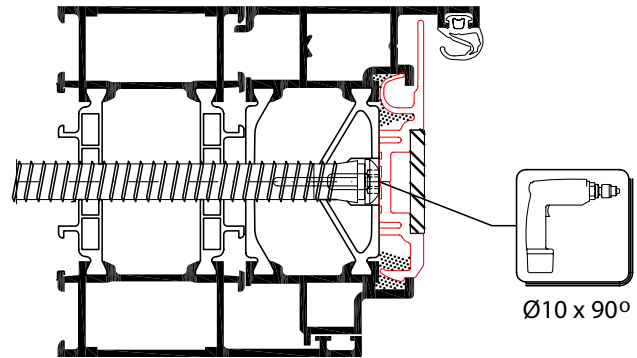
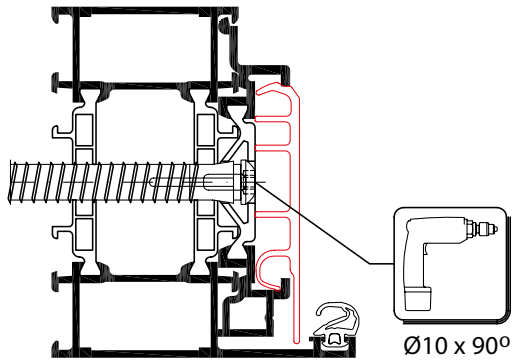
Insert the plug



Clean

Recommended for assembling in non-standard difficult materials, e.g. lime cavity brick.

Advantages:  
In case of the door replacement there is no need to destroy the door lining in order to locate the dowel layout.



Caution! Please remove the locking bar from the lock side.

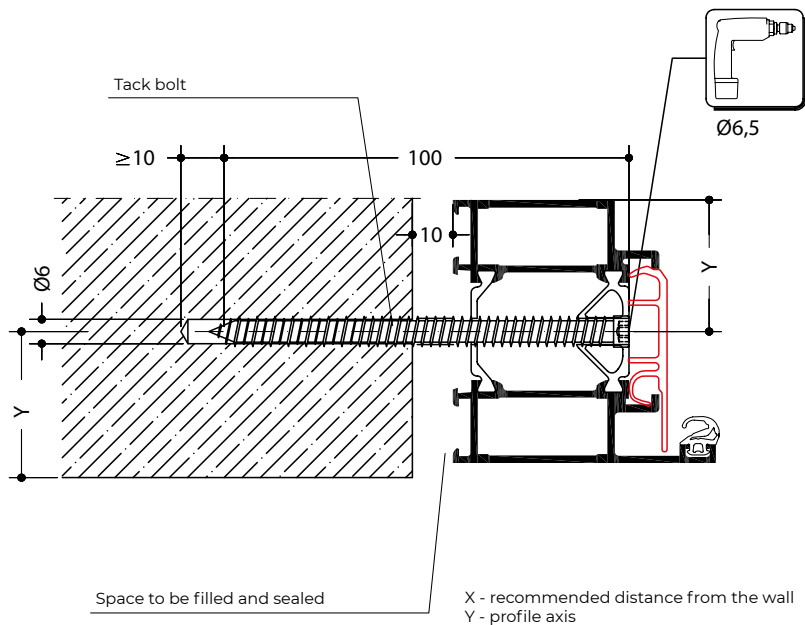
## Assembling of RK Exclusive Doors products

Method

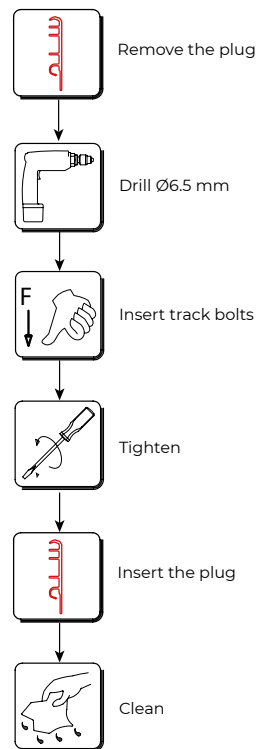
# 2

### Assembling with tack bolts

Bolt based assembling is performed by means of drilling the doorframe in the profile axis according to the drawings in page 9.

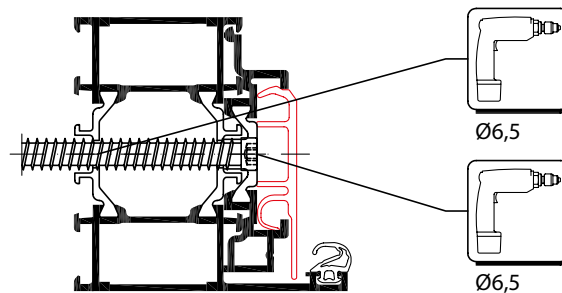
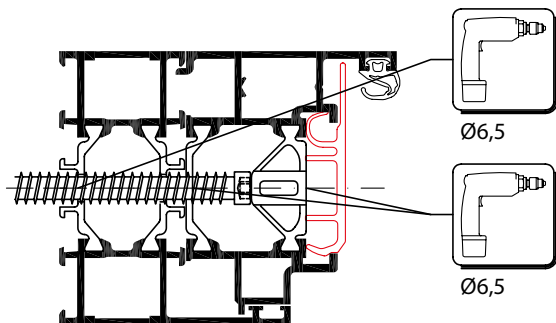


Work sequence



Recommended for assembling in such materials as cellular concrete, lime hollow blocks, etc.

Advantages:  
In case of the door replacement there is no need to destroy the door lining in order to locate the bolt layout.



Caution! Please remove the locking bar from the lock side.

## Assembling of RK Exclusive Doors products

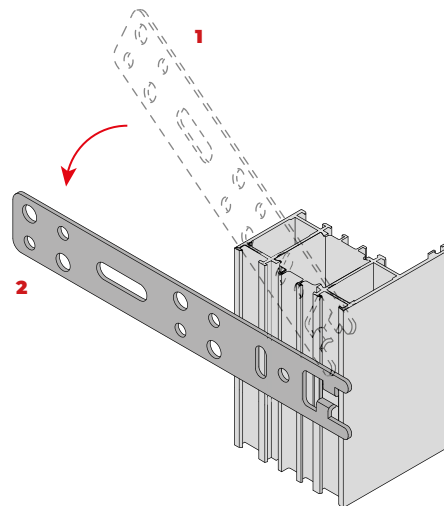
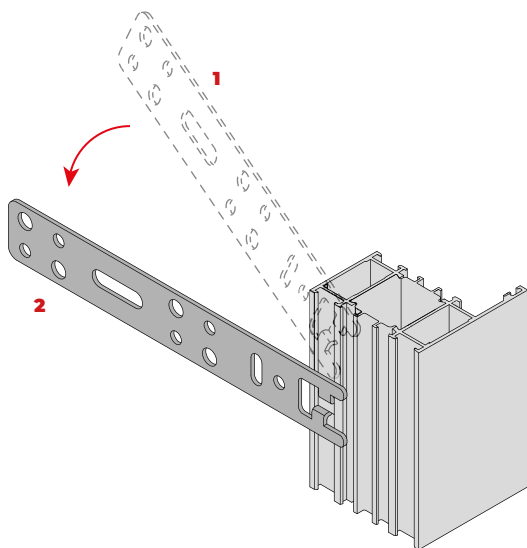
Method

# 3

### Assembling with anchors

Advantages:

This is the least complicated assembling method – it does not require removing the door leaf from the door frame.



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## Assembling of RK Exclusive Doors products

Method



### Weatherstripping installation

#### 1. Substrate preparation

The doorframe opening needs to be even and stable to enable proper tape installation. Uneven substrate e.g. made of clay hollow blocks should be evened by mortar and further stabilised by a primer.

#### 2. Applying tape to a doorframe

Apply a steamtight tape to the inner side of the doorframe and a steam permeable tape to its outer side. Maintain an overlap in of ca. 4 cm in the corners, the so-called ear, and splice the tape with a strip of glue.

#### 3. Applying steam permeable tape to an outside wall

Remove the tape protective strip and apply the tape to the wall, onto the pre-treated, clean and dry substrate.

#### 4. Levelling and mechanical installation of a doorframe in a door opening

Place the doorframe in the correct position of the opening, level it horizontally and vertically, and lock it by means of wedges or pads made of plastic or impregnated wood. Install it mechanically by means of anchor plates or expanders.

Space the expanders according to the drawing in page 9. Stretch the foil gently and press a butyl strip with a rubber roller to secure tight connection. The tape should be protected from weather exposure up to 3 months upon its installation.

#### 5. Filling the gap with the resilient sealing materia

The gap between the wall and the doorframe should be completely filled with resilient sealing material, to compensate doorframe movement resulting from changing ambient temperature and humidity.

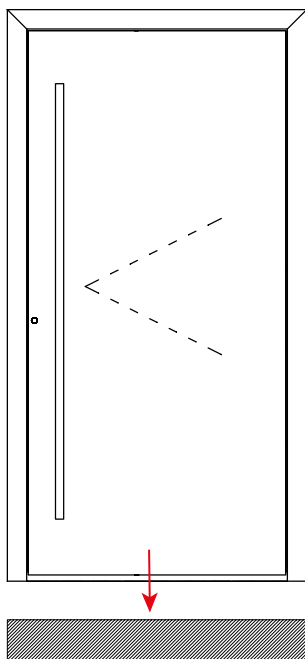
#### 6. Applying a steamtight tape to an inside wall

We recommend using a steamtight tape (protects the polyurethane foam layer or expansion tape from water vapor and moisture from inside the building).

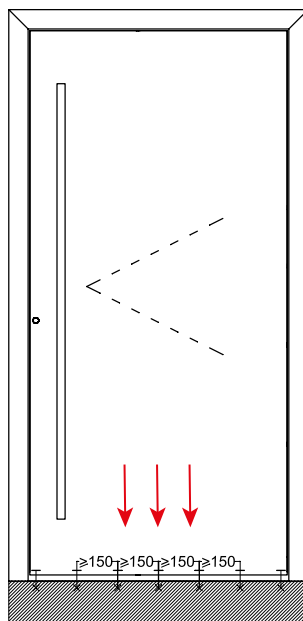
## Chipboard doorstep installation



For assembling use wood screws. Their length depends on the doorstep height.



**Fig. 1**



**Fig. 2**

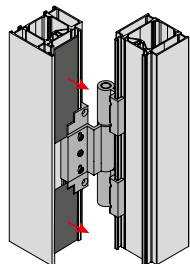
Work sequence

- 1** Place the structure on the doorstep (Fig. 1).
- 2** Open the door leaf to have access to the gasket.
- 3** Remove the gasket from the lower edge of the structure.
- 4** Screw the structure to the doorstep (Fig. 2).

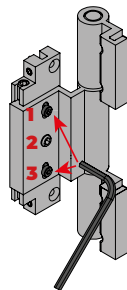


## Adjustment instructions for the roller hinge

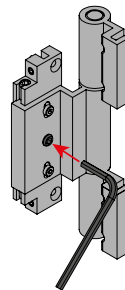
### Horizontal adjustment:



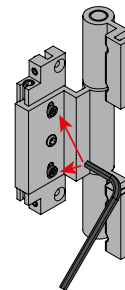
1. Remove the covering strip.



2. Untighten locking screws No.1 and 3.

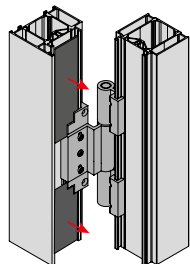


3. Adjust the door closing capacity by means of screw No. 2.No. 4 and 5.

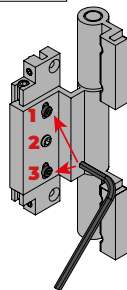


4. Tighten locking screws No. 1 and 3.

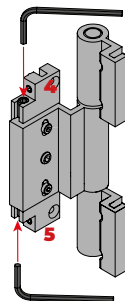
### Horizontal adjustment:



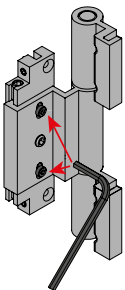
1. Remove the covering strip.



2. Untighten locking screws No.1 and 3.



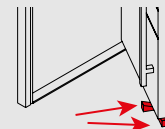
3. Adjust the door mounting height by means of screws No. 4 and 5.



4. Tighten locking screws No. 1 and 3.

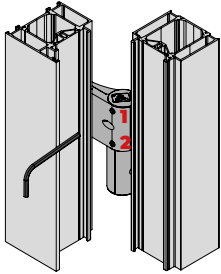


Before starting the work the door should be supported to avoid dropping during adjustment.

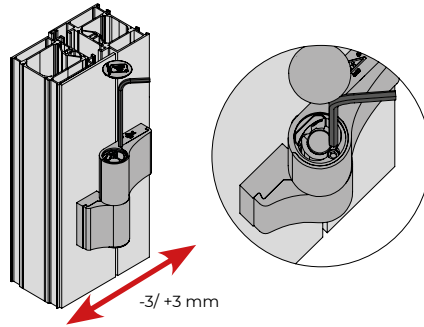


## Adjustment instructions for the ES 2400-1 lap joint hinge

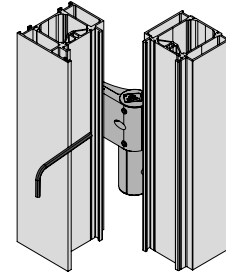
### Horizontal adjustment:



1. Open the door.
2. Untighten both locking screws, No. 1 and 2, by 1/2 turn.

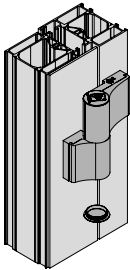


3. Remove the plug.
4. Adjust up to 3mm with a hex wrench, turning the screw to the right or to the left (+ - 2.5 mm)
5. Put on the plug.

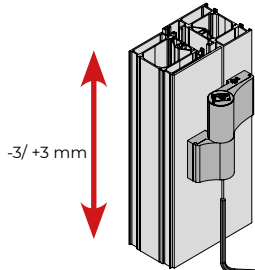


⚠ Important: tighten the locking screws alternately.

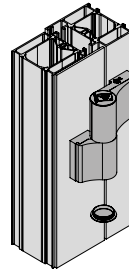
### Horizontal adjustment:



1. Remove the lower plug.



2. Adjust up to 3mm with a hex wrench, turning the screw to the right or to the left (+3 /-2 mm).

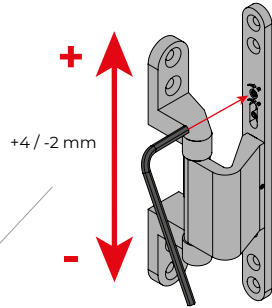
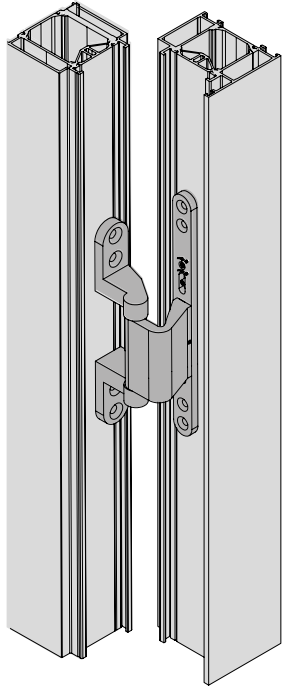


3. Put on the plug.

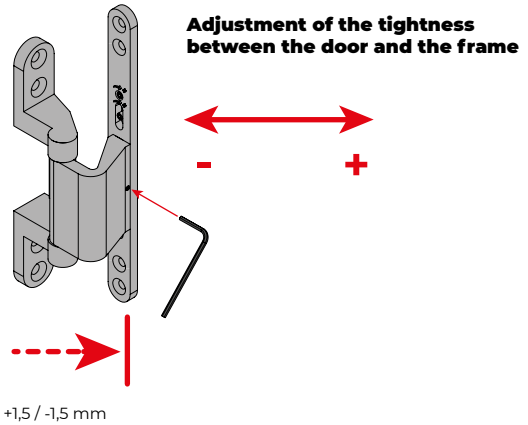


Hinge sleeves are made of Teflon coated, maintenance free PCV: THEIR LUBRICATION IS FORBIDDEN!

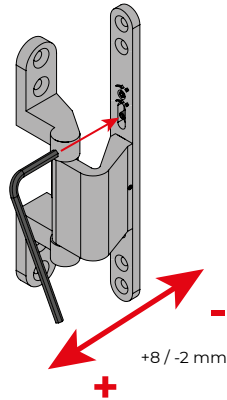
## Adjustment regulations for the ES 2450 concealed hinge



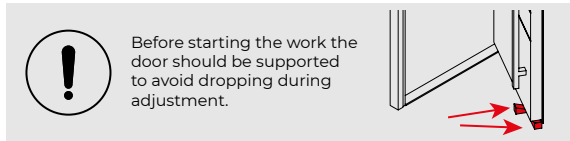
**Vertical adjustment  
(door lifting / lowering)**



**Adjustment of the tightness  
between the door and the frame**

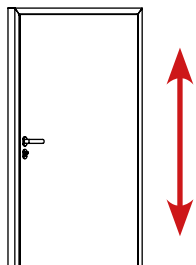
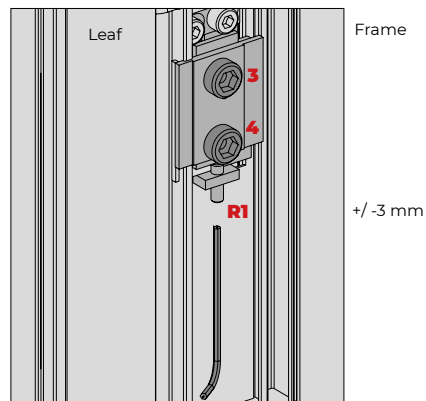
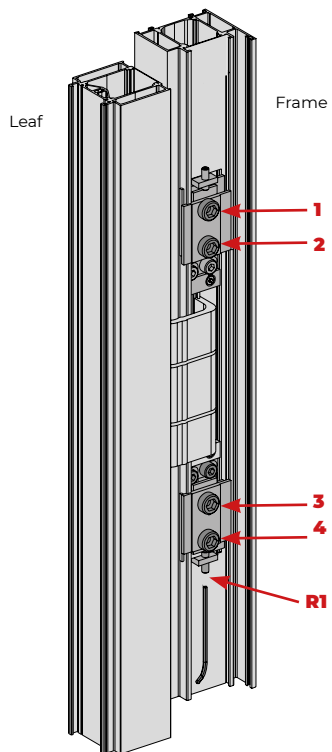


**Horizontal adjustment  
of the closing capacity**

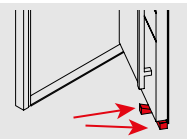


## Height adjustment on the ES 2460 hinge

1. Untighten locking screws No. 1, 2, 3, and 4 (T30).
2. Adjust the height by means of screw R1 (T15) +/-3mm.
3. Upon the completion tighten screws No. 1, 2, 3, and 4.

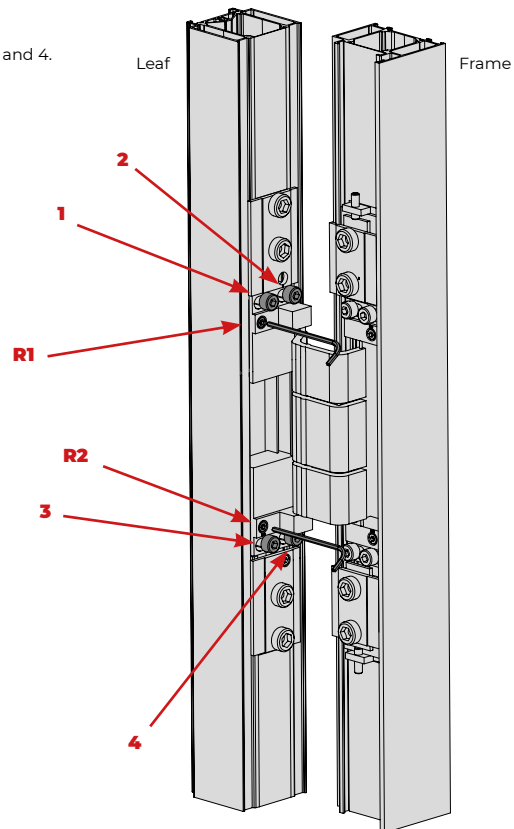
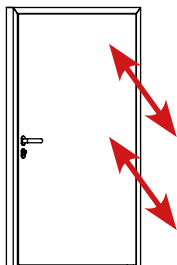


Before starting the work the door should be supported to avoid dropping during adjustment.

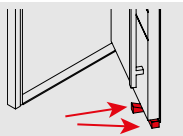


## Adjustment of the leaf and frame tightness on the ES 2460 hinge (on the leaf)

1. Untighten locking screws No. 1, 2, 3, and 4 (hex wrench 6).
2. Remove the plug from screws R1 and R2.
3. Adjust the door closing capacity by means of screw R1 and R2 (T25)  $\pm$ 3mm.
4. Once the adjustment has been completed install the plugs and tighten screws No. 1, 2, 3, and 4.

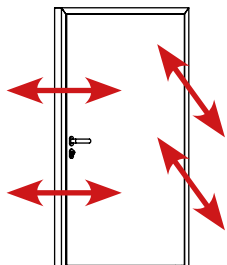


Before starting the work the door should be supported to avoid dropping during adjustment.



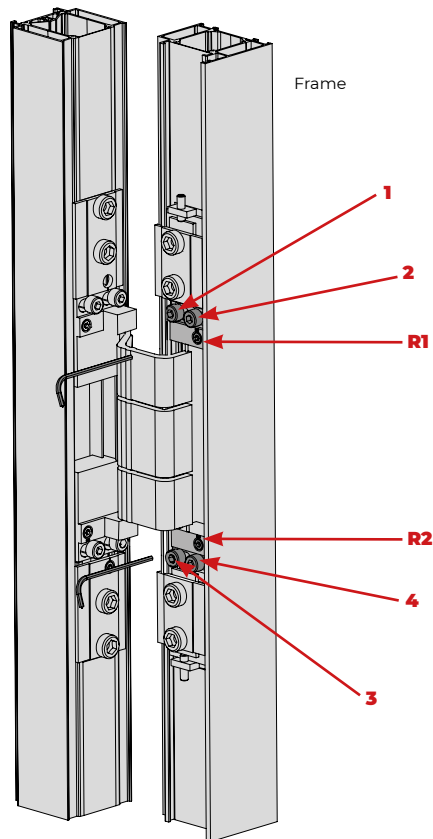
## Leaf and frame tightness adjustment and the door slit adjustment on the ES 2460 hinge (on the frame)

1. Untighten locking screws No. 1, 2, 3, and 4 (hex wrench 6).
2. Adjust the door closing capacity by means of screw R1 and R2 (T15) +/-3mm.
3. Upon the completion tighten screws No. 1, 2, 3, and 4.

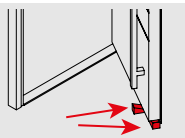


Leaf

Frame

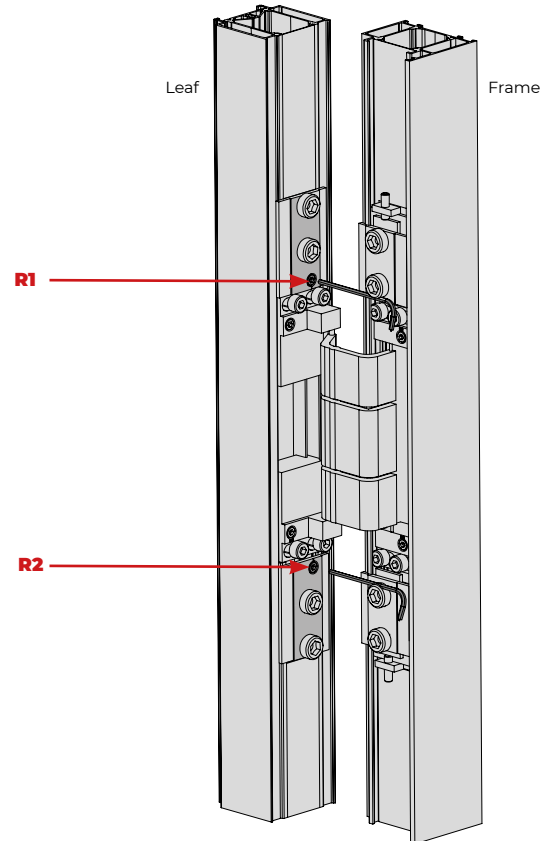
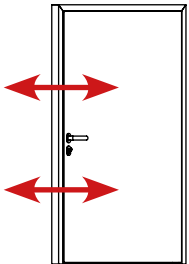


Before starting the work the door should be supported to avoid dropping during adjustment.

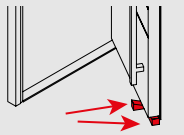


## Slit adjustment on the ES 2460 hinge (on the door leaf)

1. Adjust the slit by means of screw R1 and R2 (T25)  $\pm 3\text{mm}$ .

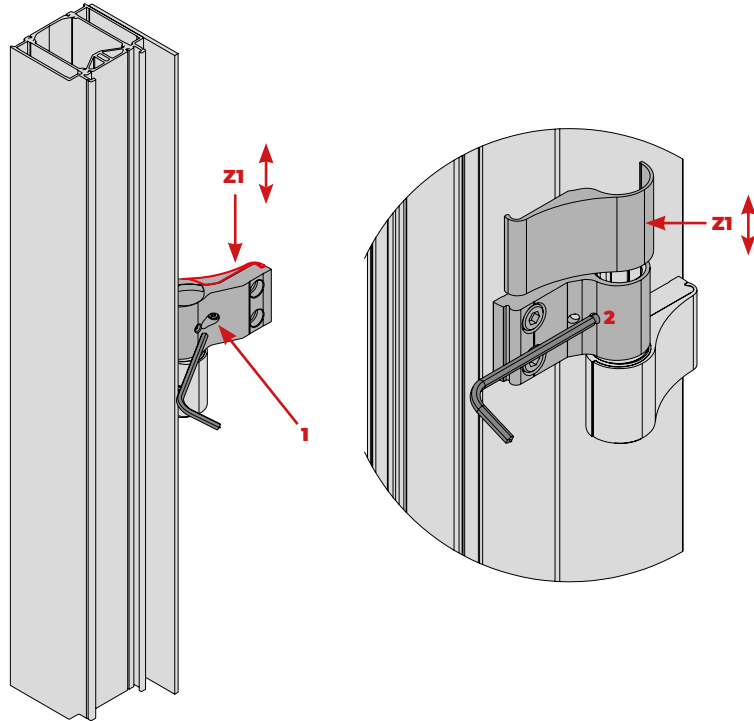
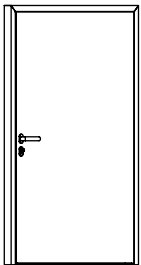


Before starting the work the door should be supported to avoid dropping during adjustment.



## Closing capacity adjustment on the ES 2404, ES 2405, and ES 2406 hinges

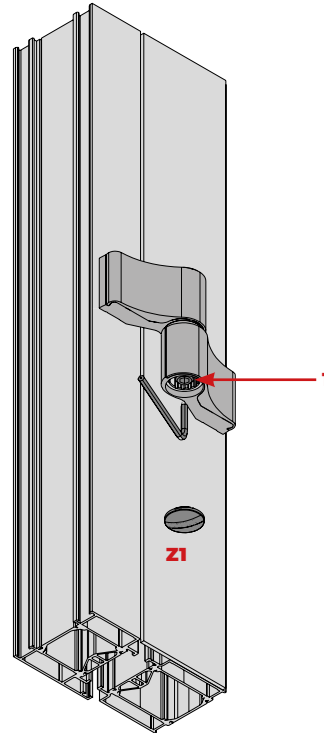
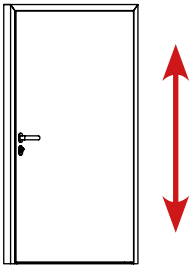
1. Open the door.
2. Shift plugs Z1 from the hinge on the leaf, untightening screw No. 1 (Hex wrench 3).
3. Close the door.
4. With the door closed adjust the door closing capacity by means of screw No. 2 (Hex wrench 4) +/- 3mm.
5. Once the adjustment has been completed install the plug, open the door and tighten screw No. 1.





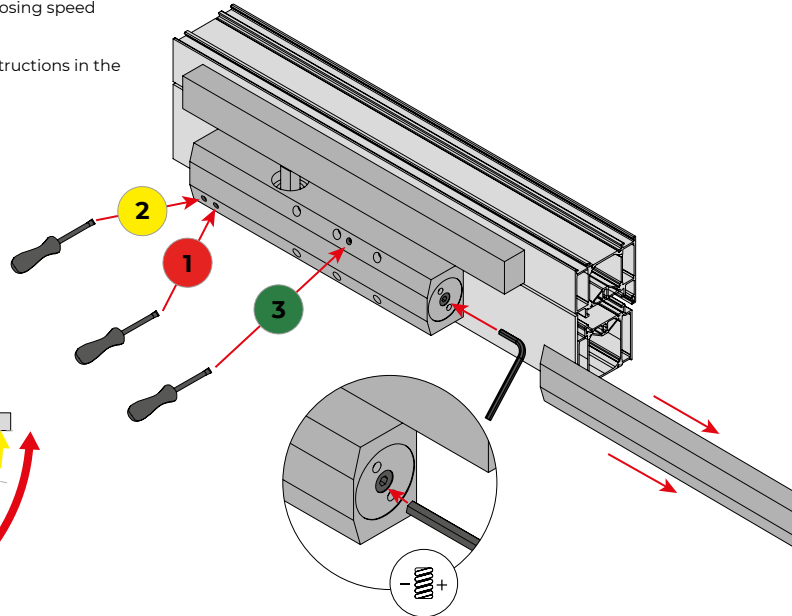
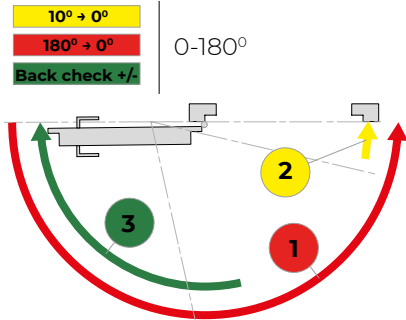
## Height adjustment ES 2404, ES 2405, and ES 2406 hinge

1. Remove plug No. Z1, from the bottom of the hinge.
2. Adjust the height by means of screw No. 1 (Hex wrench 6)  $\pm 3$ mm.
3. Once the adjustment has been completed install plug No. Z1.



## Adjustment of the ES 2300 arm door closer

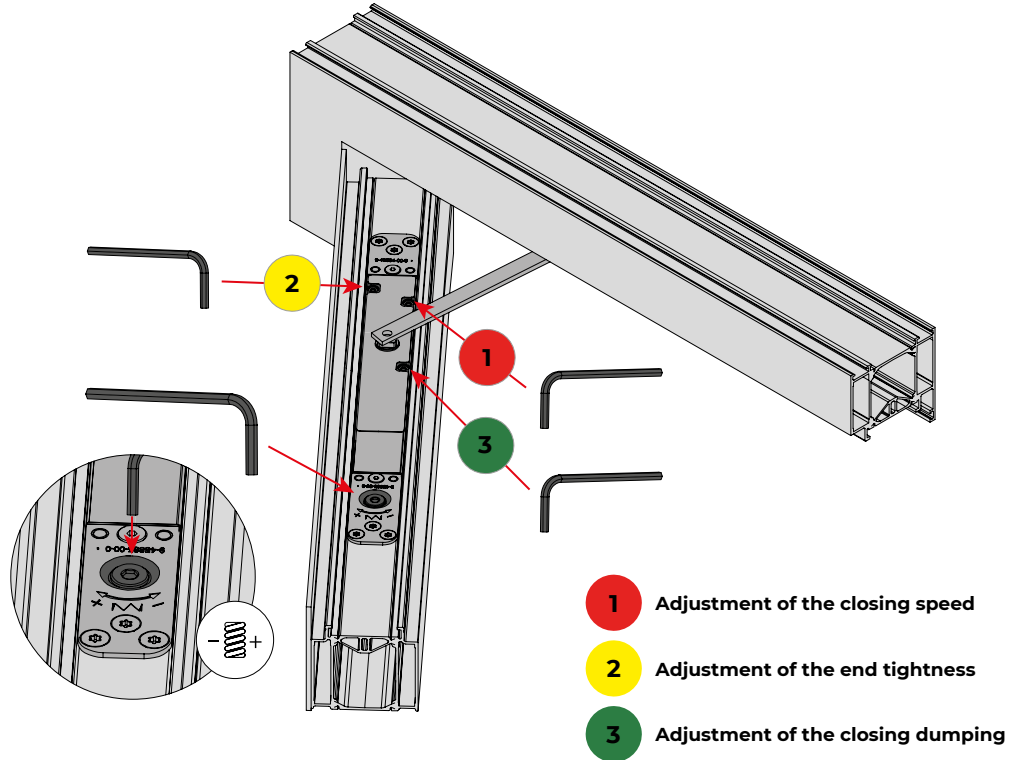
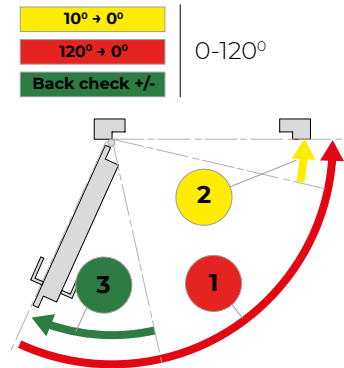
1. Remove the door closer cover.
2. Open the door at 90 degrees and check the closing speed (at this angle it should be ca. 5 seconds).
3. Locate the adjusting screws No.1, 2, and 3.
4. Adjust with a hex wrench according to the instructions in the drawing until the desired effect is obtained.



- 1** Adjustment of the closing speed
- 2** Adjustment of the end tightness
- 3** Adjustment of the closing dumping

## Adjustment of the ES 2320 concealed door closer

1. Open the door at 90 degrees and check the closing speed (at this angle it should be ca. 5 seconds).
2. Locate the adjusting screws No.1, 2, and 3.
3. Adjust with a hex wrench according to the instructions in the drawing until the desired effect is obtained.

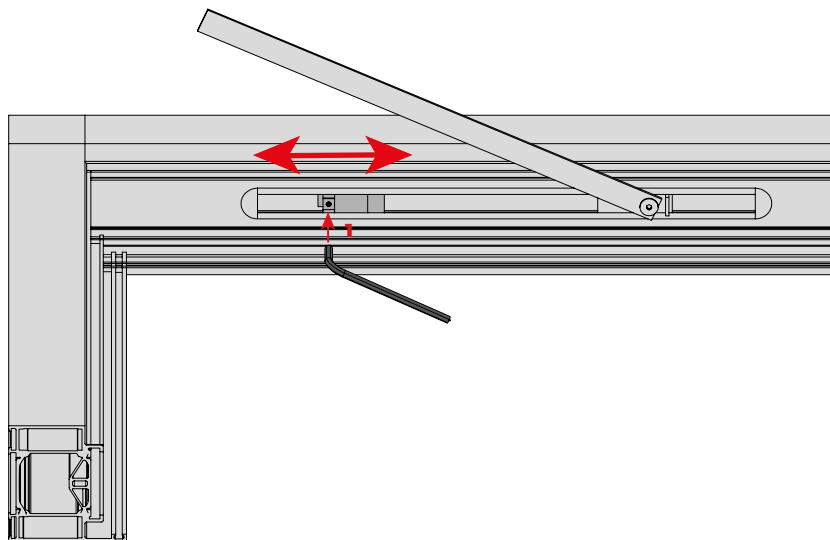
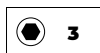


### The ES 2320 concealed door closer brake

**i** By means of the brake the door opening width is set.

To adjust the brake follow these steps:

1. Untighten screw No. 1.
2. Set the brake in the position required.
3. Tighten screw No. 1.



To disable the door in the open position, open it until it gets locked by the brake.

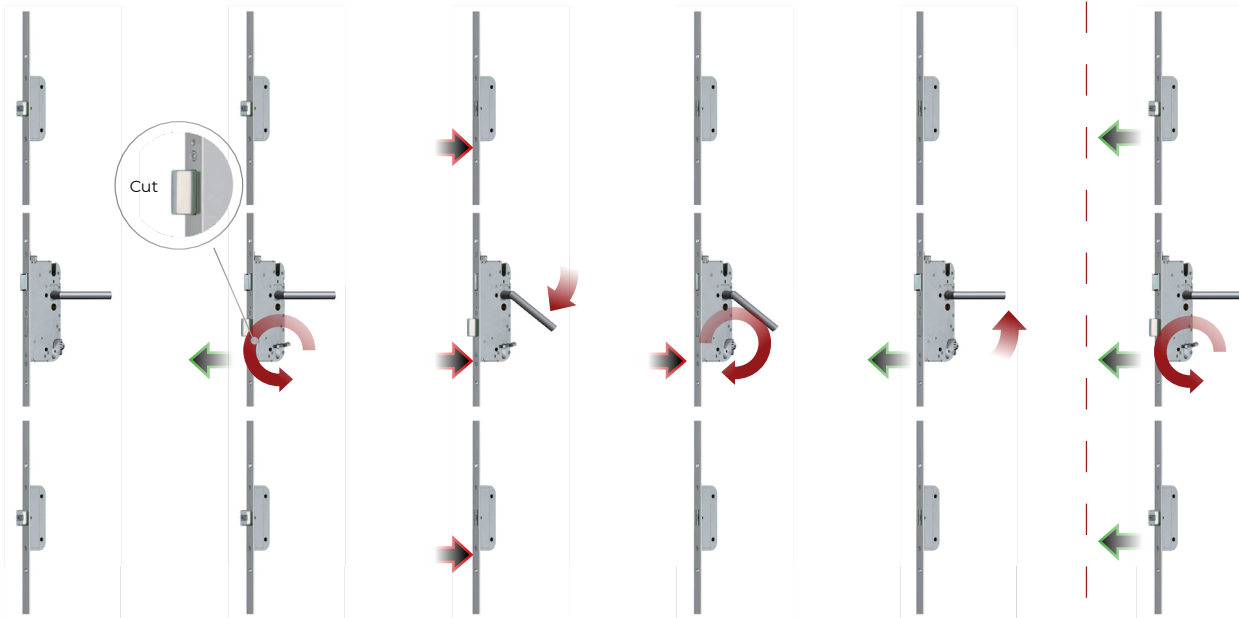


To release the brake hold the door handrail/ handle and pull it stronger in the closing direction.

## Daytime function for the ES 1150 lock

### Activation

### Deactivation



1. Open the door.

2. Turn the key in the lock; eject the bolt up to the notch.

3. Press the door handle and hold it.

4. Turn the key to open the lock.

5. Release the door handle – now the daytime function is on.

**DAYTIME FUNCTION DEACTIVATION:**  
Insert the key into the lock, turn into the close position and then turn back into the open position.

The function is off now.



A door with the daytime function on remains only closed shut. Air movements may result in the door opening.



The daytime function in an automatic lock works only in connection with an electric strike.

## Instructions for the door lock replacement



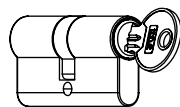
The door lock should be maintained twice a year following the instructions.



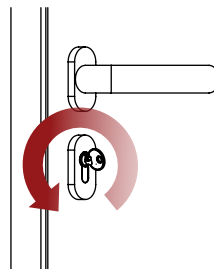
The door lock may not be hammered into the slot!



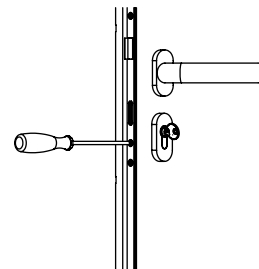
A new door lock needs to have identical dimensions to the original ones



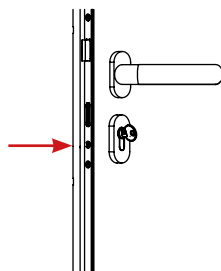
outer dimension inner dimension



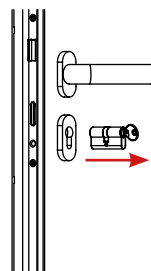
1. Open the door.
2. Insert the key into the lock.
3. Turn it carefully by 30 degrees.



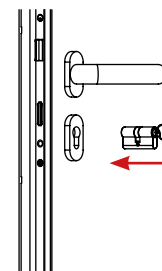
4. Untighten the fixing screw.



4. Remove the fixing screw.

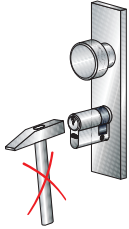


6. Eject the door lock.

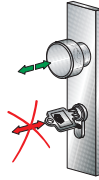


7. Place the door lock into the slot - pay attention to the correct position of the tenon.
8. Screw in a fixing screw.
9. Check if the lock works correctly.

## Door lock maintenance



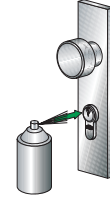
Place the door lock in the slot.  
Do not push it in by force.



Always insert the key till the  
end of the lock.



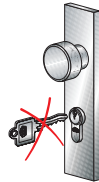
Do not pull / push a key  
turned in the lock.



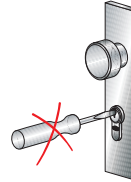
Maintain the door lock every  
6 months by means of the  
spray included in the  
maintenance kit.



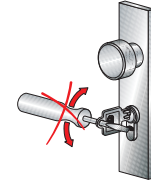
Do not use oil or graphite  
as maintenance agent.



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.

## Reed switch ES 2111

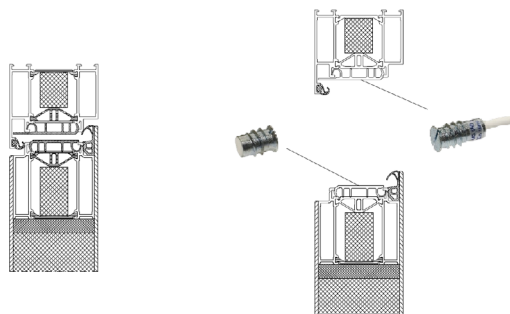
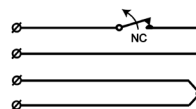
MC 250 is a universal magnetic switch for flush mounting used for burglar and robbery alarm, as well as in access control systems for signalling unauthorized door opening.

### 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.



**Note!**  
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 stress of the switch cable will be avoided while screwing in.



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 is reached, and then they should be placed apart again until the minimum closing distance is reached.

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



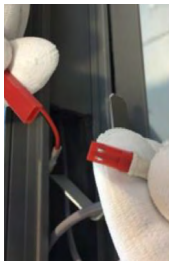
**Warning:** application of excessive force to the casings during assembly may cause damage to glass parts of the inner reed switches of the sensor.



## 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.

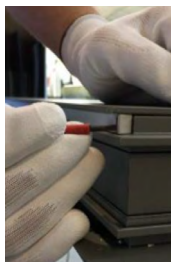


4. Remove the LED strip carefully.

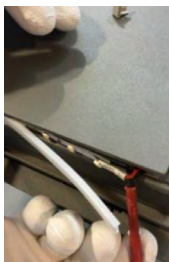


5. Insert a new LED strip into an aluminium strip making sure that the access clearance is air-tight. Install the covering strip.

## Replacement of a LED strip installed in a door leaf



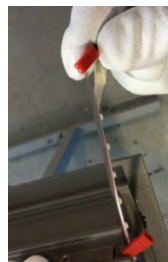
1. Remove the door leaf from the frame and place it horizontally on a safe and even surface.



2. Remove the plug and the coving.



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.



More electrical connections:  
**SCAN THE CODE**



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

### 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 period inspection should be performed at least every 12 months). Inspections performed should be recorded in the table in page 11 of this „Operating manual“. 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.

















### Care

Care products from the Pflege-SET enclosed with the door constitute the maintenance kit recommended by the manufacturer for doors from RK Exclusive Doors.

Additional sets may be purchased from the door Manufacturer of Seller.

Technical documentation, including the „Operating manual“ and the “Use and care manual”, 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 instructions (QR codes)

| Instructions                              | Apply      | Link / QR Code  |
|---|------------|---|
| Battery replacement in the door-viewer    | ES 4030    |  <a href="#">CLICK ON THE LINK</a>    |
| Battery replacement in the door-viewer    | ES 4035    |  <a href="#">CLICK ON THE LINK</a>    |
| Battery replacement in the door-viewer    | ES 4032    |  <a href="#">CLICK ON THE LINK</a>    |
| Maintenance of door cylinder              | All models |  <a href="#">CLICK ON THE LINK</a>    |
| Daytime function for the ES 1150 lock     | ES 1150    |  <a href="#">CLICK ON THE LINK</a>    |
| Electric door opener with daytime opening | ES 2100    |  <a href="#">CLICK ON THE LINK</a>    |
| Door operation and care manual            | All models |  <a href="#">CLICK ON THE LINK</a>  |

## FAQ - Frequently asked questions

| Issue   | Cause  | Solution   | To be solved by the Owner | SUPPORT   |
|---|--|--|---------------------------|---|
| Impossible to open electronically closed door | 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 Support Centre<br>T: +43 732 890 500 - 0<br>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<br>      |
|   | Dead LED lighting.   | LED replacement according to the manual in page.   | YES                       |   |
| Fingerprint reader does not react             | Wet or dirty sensor.   | Clean and dry the sensor.  | YES                       | ekey Support Centre<br>T: +43 732 890 500 - 0<br>E: support@ekey.net  |
|   | 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<br> |

## 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                       |  <p>QR code for ROTO manual</p>  |
|  | The remote control batteries are empty.       | Replace the batteries.  | YES                       |  |
|  | Remote control damaged.                       | Replace remote control for the ROTO lock and re-integrate 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

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)  
Website: [rkdoorsystems.co.uk](http://rkdoorsystems.co.uk)

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## Notes

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## Notes

A series of horizontal dotted lines for taking notes.



RKDOORSYSTEMS

Let's make an entrance

Authorised Service Provider