

# Manual No. 7082

01/23

## INSTALLATION

### Residential garage doors Manual or Motorised



**RE100**  
(Extension Springs)



GARAGE DOORS

Door max. 3,000x2,250  
Extension and torsion springs  
without wicket door

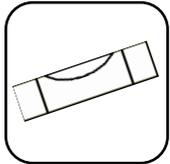
(Document reserved for installers)

# Contents

Before installation .....	3
Required equipment.....	3
Installation instruction.....	4
Kit contents for each door configuration/option .....	5
Kits for MOTORISED and MANUAL doors.....	5
Kits for MOTORISED doors.....	6
Kits for MANUAL doors.....	6
Vertical rail installation.....	7
Checking the bay .....	7
Assembling the vertical seals.....	7
Checking the cables/springs .....	8
Assembling the fascia seal .....	8
Assembling the fascia .....	9
Fixing the fascia to the floor .....	9
Layout of the frame .....	10
Fixing the vertical rails.....	10
Horizontal rail installation .....	11
Assembling the stops (motorised doors).....	11
Assembling the curves.....	11
Fixing the horizontal rails .....	12
Assembling the back bar brackets.....	14
Installing the back bar .....	14
Installing the hangers .....	15
Back bar extension (option).....	15
Checking the diagonals.....	16
Shutter assembly.....	16
Grease all roller shafts.....	16
Panel preparation .....	17
Installing the bottom panel .....	18
Installing the intermediate panel(s) .....	18
Installing the top panel.....	19
Cable attachment .....	20
Opening the shutter .....	20
Cable attachment points .....	20
Checking the balance.....	21
Adjusting the spring tension.....	21
Finishes .....	22
Adjusting and fixing the fascia.....	22
Adjusting the rollers .....	22
Fixing the upper roller supports .....	22
Fixing the end position clips (manual door) .....	23
Assembling the handle .....	23
Assembling the latch (optional on motorised doors).....	23
Installing the lock (optional on motorised and manual doors) .....	24
Installing the pull cord (if manual door).....	28
Weather seal (optional).....	28
Greasing the bottom of the rails .....	28
Assembling the spring pulley covers .....	29
Cable labels.....	29
Fixing the « SOMMER » operator to the back bar.....	30
Fixing the FAAC and CAMÉ operators on the shutter .....	30

# Before installation

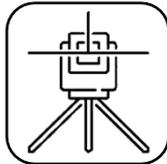
## Required equipment



Spirit level



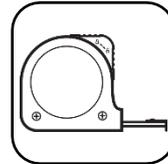
Clamp



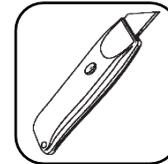
Laser level



Plumb bob



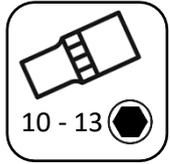
Tape measure



Utility knife



Electric screwdriver



Socket  
10 - 13



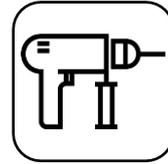
Cruciform bit



Flat wrench  
10 - 13



Allen key  
3



Perforator



Torx bit  
30



Ladder



Phillips screwdriver



Flat screwdriver



Pencil



Grinder



Combination pliers



Cutting pliers



Locking pliers



Steel drill bit  
Ø2-4.2-4.5-10-13



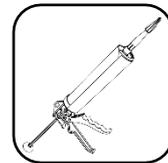
Hammer



Rivet gun



Hacksaw



Silicone sealant



Brush



Pot of grease



Grease spray

# Installation instruction



## **CAUTION !**



To ensure that this product is assembled,  
used and maintained in complete safety,  
it is important to follow the instructions provided in this document.

For everyone's safety, please adhere to the  
precautionary measures below.

- Before beginning the assembly, read this manual carefully.
- This closure must be installed by a professional technician.
- All the parts delivered are specifically sized for this product. Adding and/or using other parts may be detrimental to safety and may affect the product's warranty.
- Any modification or improvement of this closure must be compliant with the standard BS EN 13241:2003+A2:2016. In this case, a "modification/transformation" file must be created by the installer as per the standard BS EN 12635:2002+A1:2008 annex C.
- Considerable force is exerted by the extension springs; carry out work in accordance with the safety instructions. Use the appropriate tools to install these products. Ensure that all work is carried out on a stable floor.
- Ensure that the assembly area is adequately lit, clear, clean and clearly marked out.
- Ensure that no other people are present at the assembly site apart from the installers. Non-authorized persons (children for example !) who are present at the site risk injury during assembly.
- All the components of this closure must be installed in compliance with the installation instructions provided in this manual.
- All the requirements of the standards BS EN 13241:2003+A2:2016 must be met and verified if necessary.

### **Max. tightening torque :**

- Assembly screws : **10 Nm**
- Shutter mounting screws : **12 Nm**

### **Min. working load per attachment point :**

- Rails : **40 daN**

# Kit contents for each door configuration/option

## Kits for MOTORIZED and MANUAL doors

<p><b>KIS-032</b></p> <p>x24 x4 x4</p>	<p><b>KIS-033</b></p> <p>x12 x3</p>	<p><b>KIS-820</b></p> <p>x4 x4 x2</p>	<p><b>KIS-835 or 836</b></p> <p>x4 or x6</p>
<p><b>KIS-822</b></p> <p>x6 x6 x2</p>	<p><b>OR</b></p> <p>x1 x6 x6 x1</p>		<p><b>KIS-824 &amp; 825</b></p> <p>x8 and x6 x8 and x6</p>
<p><b>KIS-830</b></p> <p>x8 x4 x1 x1 x2 x1 x1</p>	<p><b>KIS-826</b></p> <p>x2 x4 x1 x2 x2</p>	<p><b>KIS-829</b></p> <p>x4 x4 x4</p>	
<p><b>KIS-840</b></p> <p>x4 x4 x1 x1 x2 x8</p>	<p><b>KIS-860</b></p> <p>x2 x4 x4 x4</p>	<p><b>KIS-861</b></p> <p>x2 x2 x2</p>	
<p><b>KIS-092</b></p> <p>x16 x4 x4</p>			

### Kits for MOTORISED doors

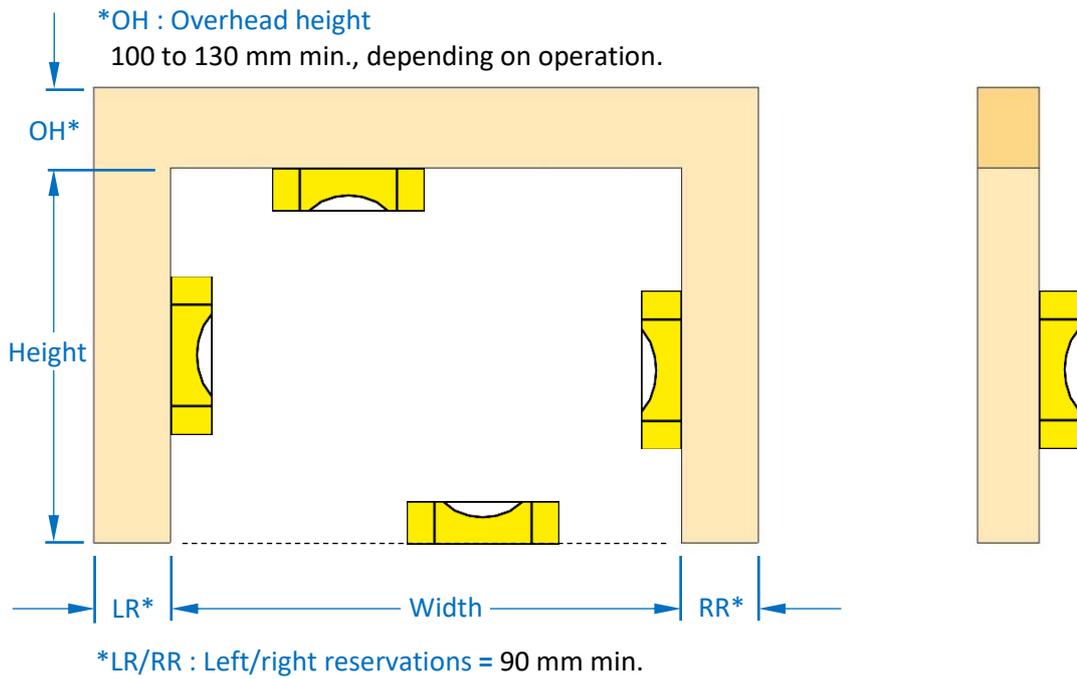
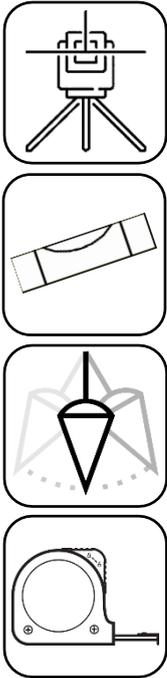


### Kits for MANUAL doors

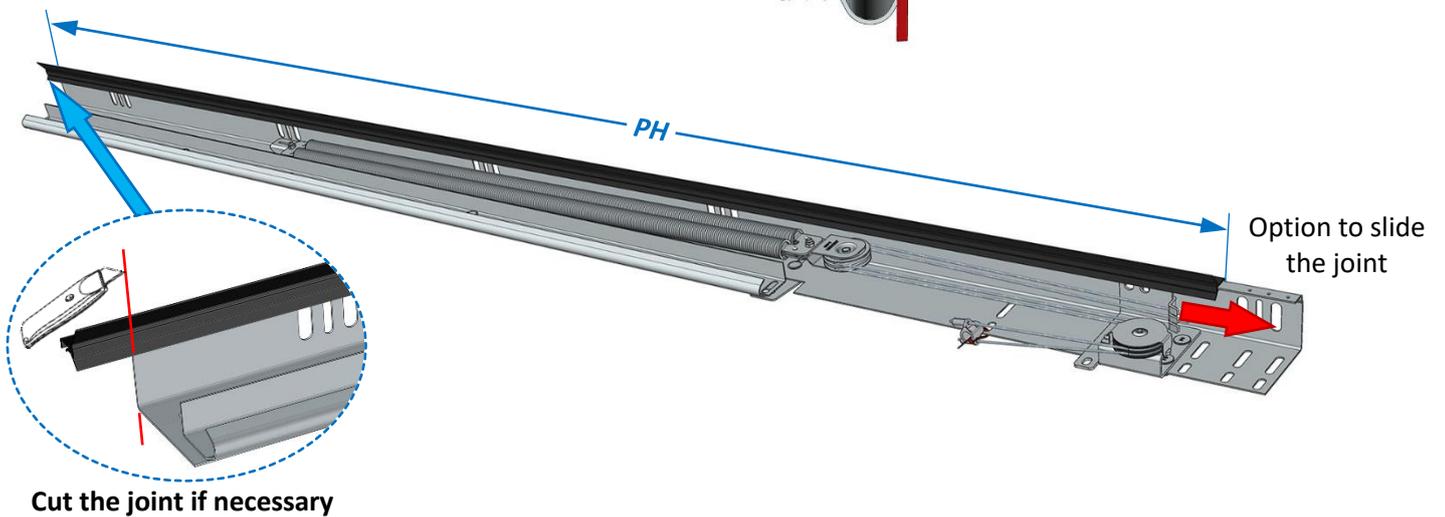
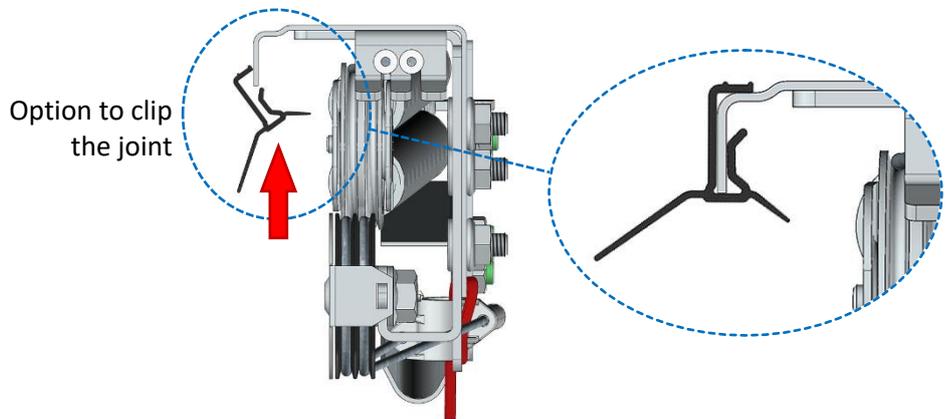


# Vertical rail installation

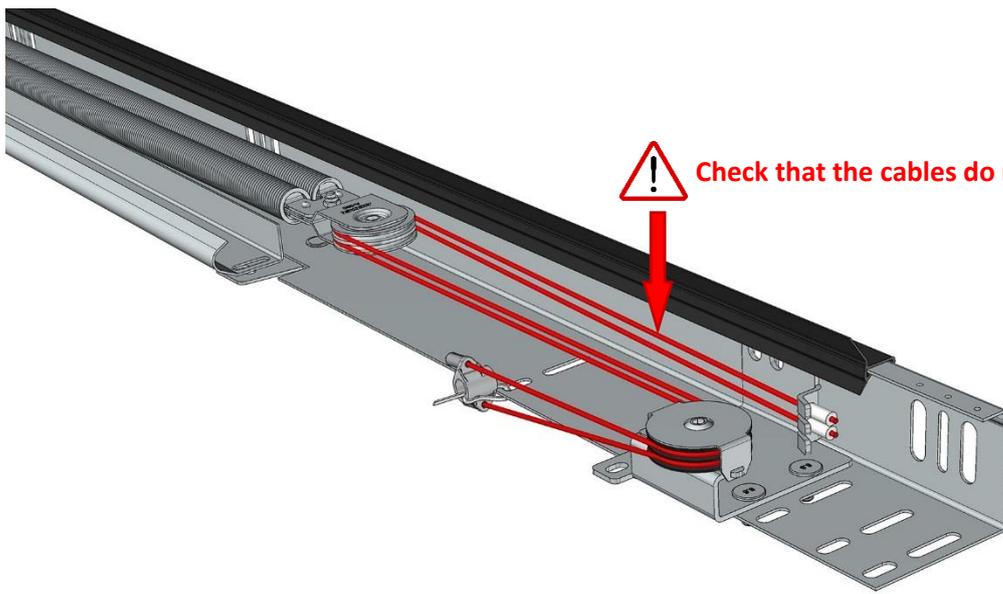
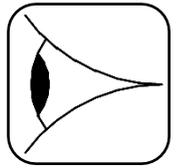
## Checking the bay



## Assembling the vertical seals



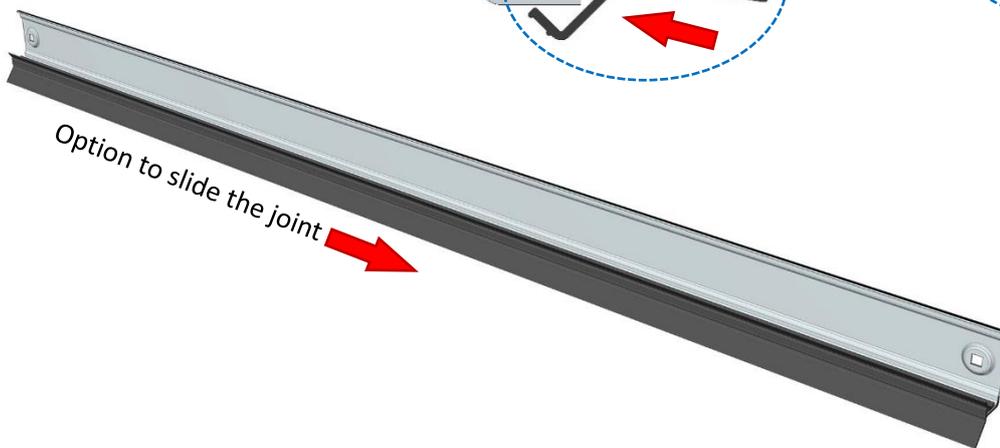
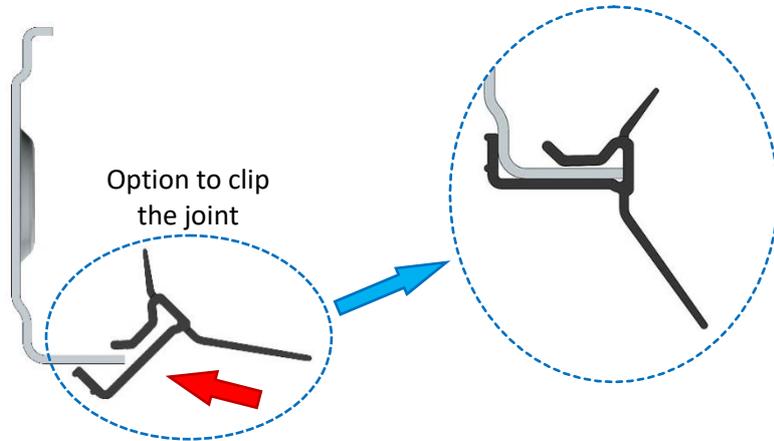
## Checking the cables/springs



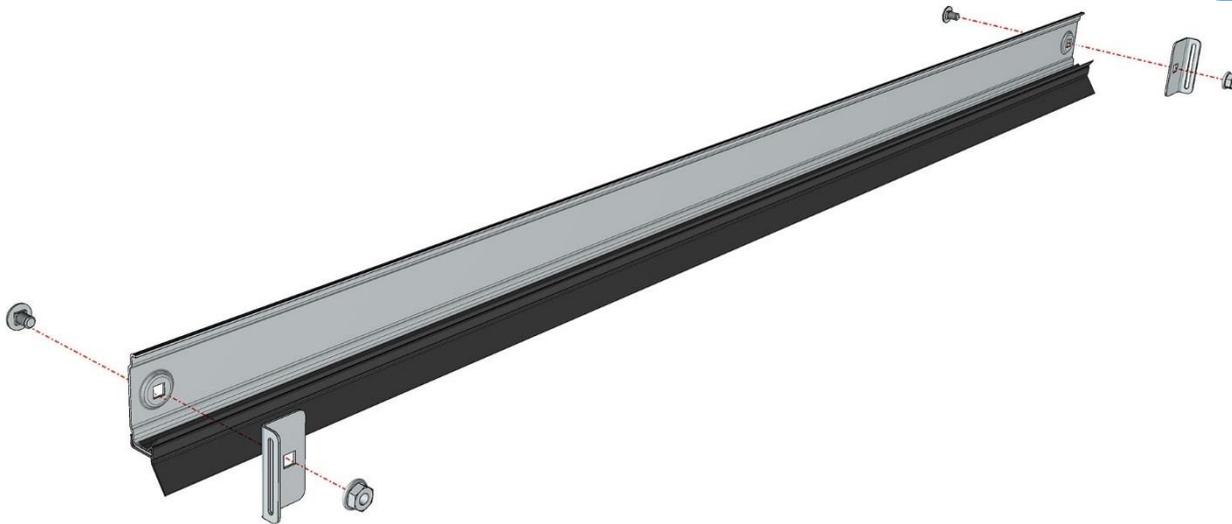
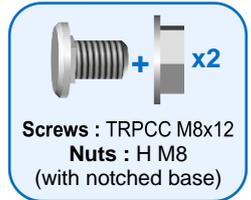
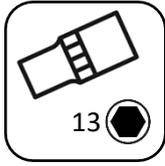
**Check that the cables do not cross (parallel cables).**

## Assembling the fascia seal

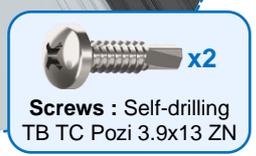
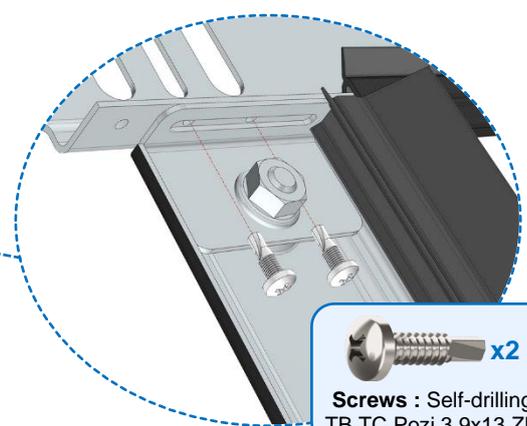
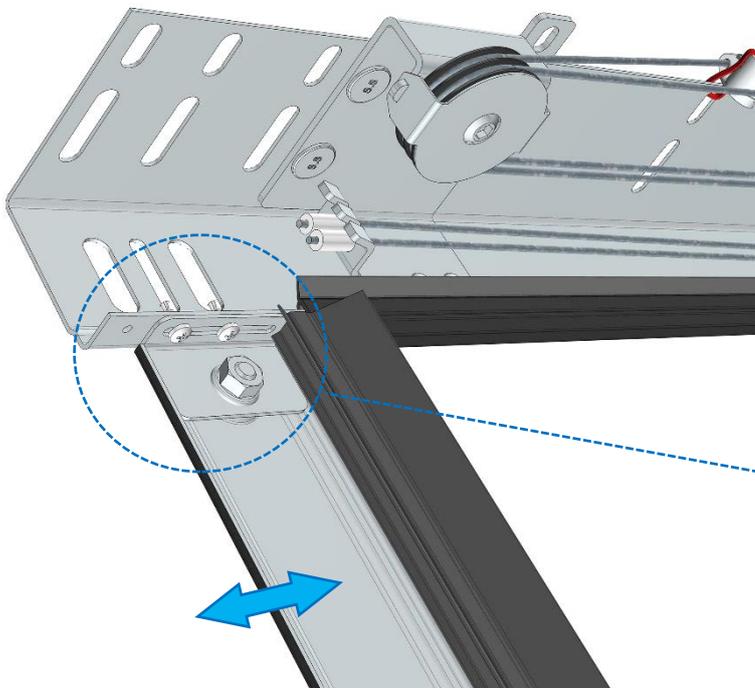
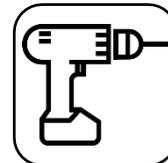
**Remove the protective film before assembling the joint.**



## Assembling the fascia



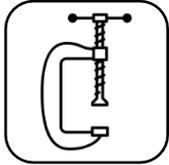
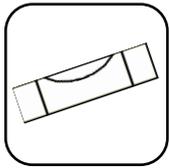
## Fixing the fascia to the floor



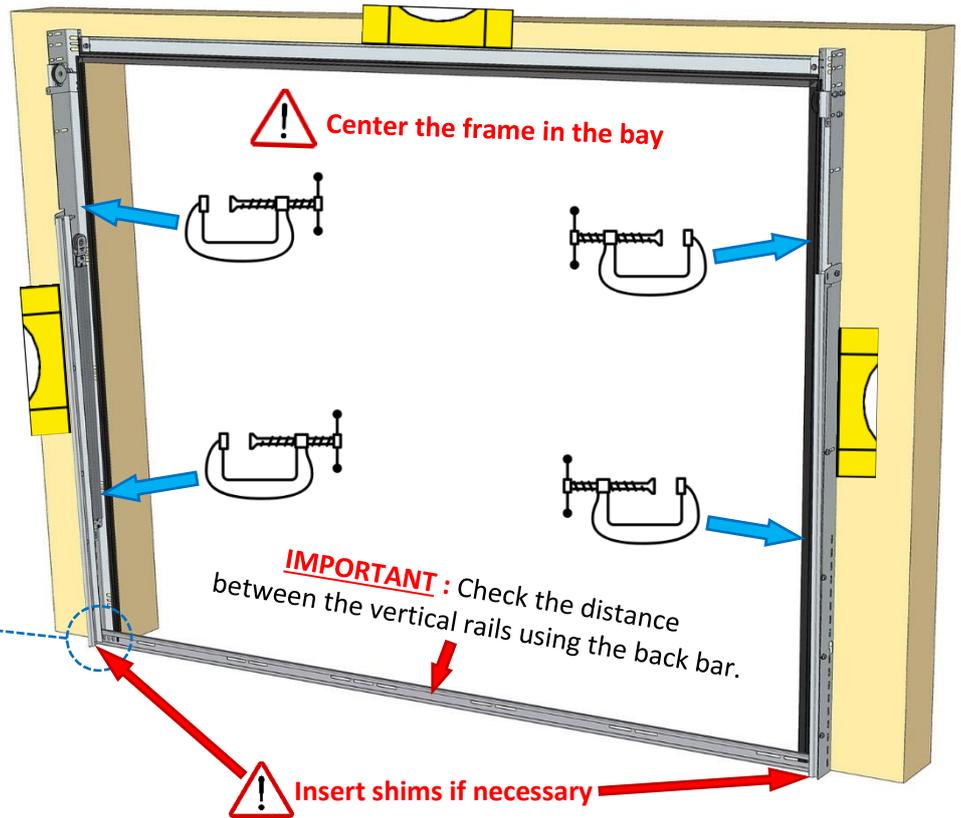
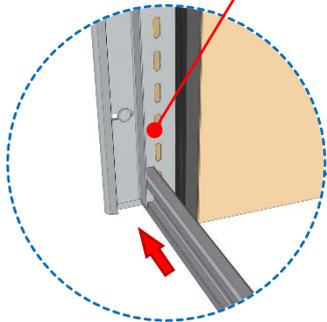
The vertical position of the fascia will be adjusted once the rails have been mounted on the wall.

Repeat the process with the other vertical rail.

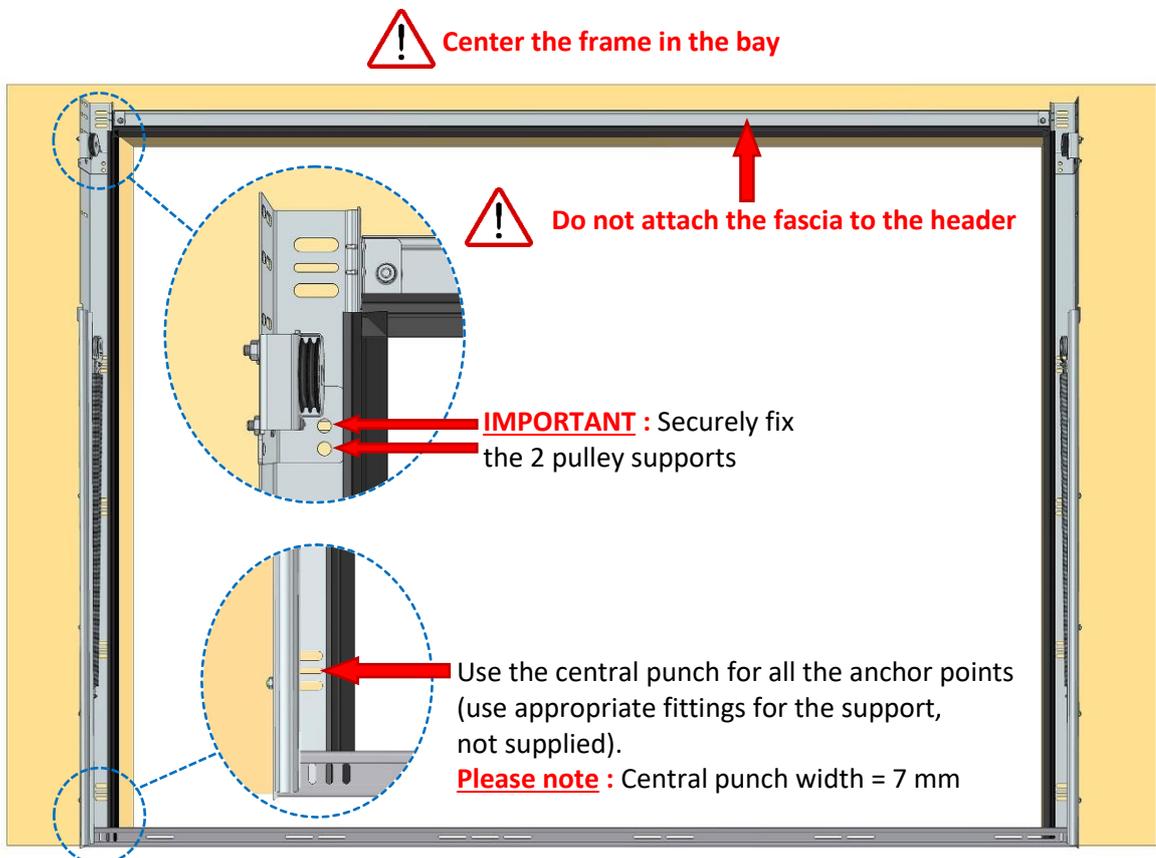
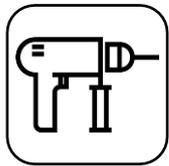
## Layout of the frame



The back bar must be in contact with the backstop



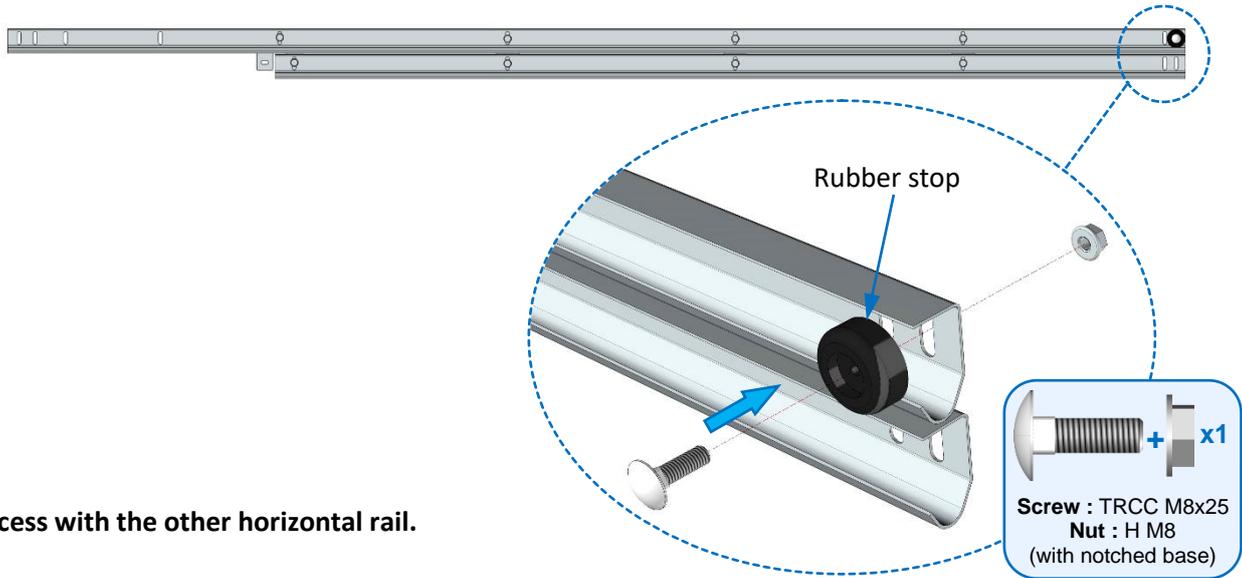
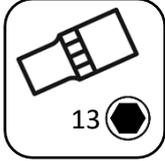
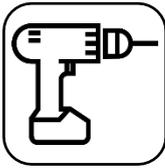
## Fixing the vertical rails



Repeat the process on the opposite side.

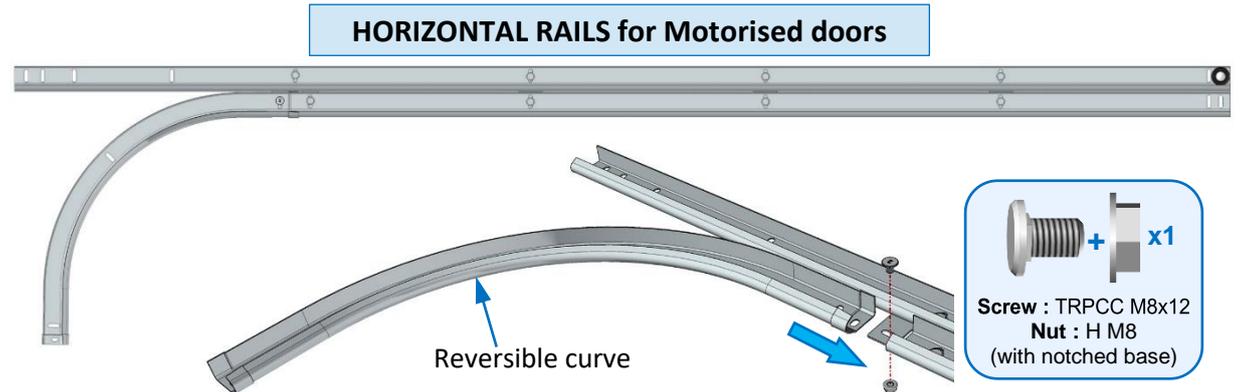
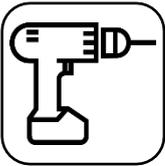
# Horizontal rail installation

## Assembling the stops (motorised doors)

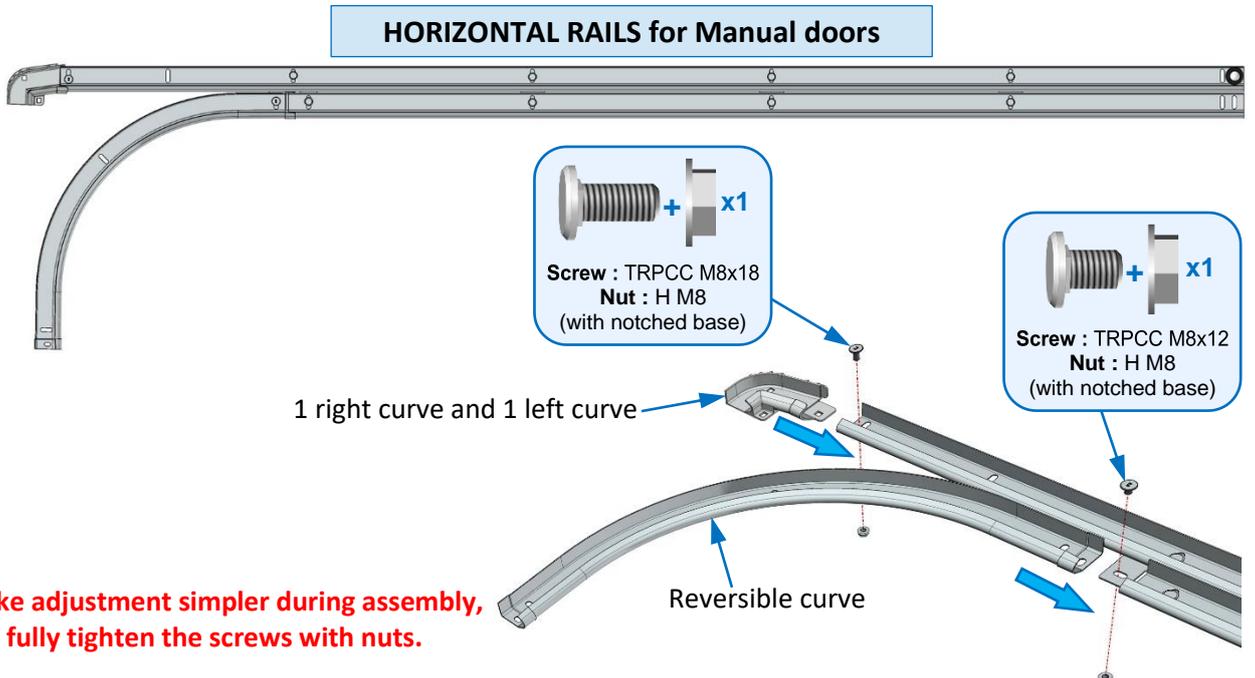


Repeat the process with the other horizontal rail.

## Assembling the curves



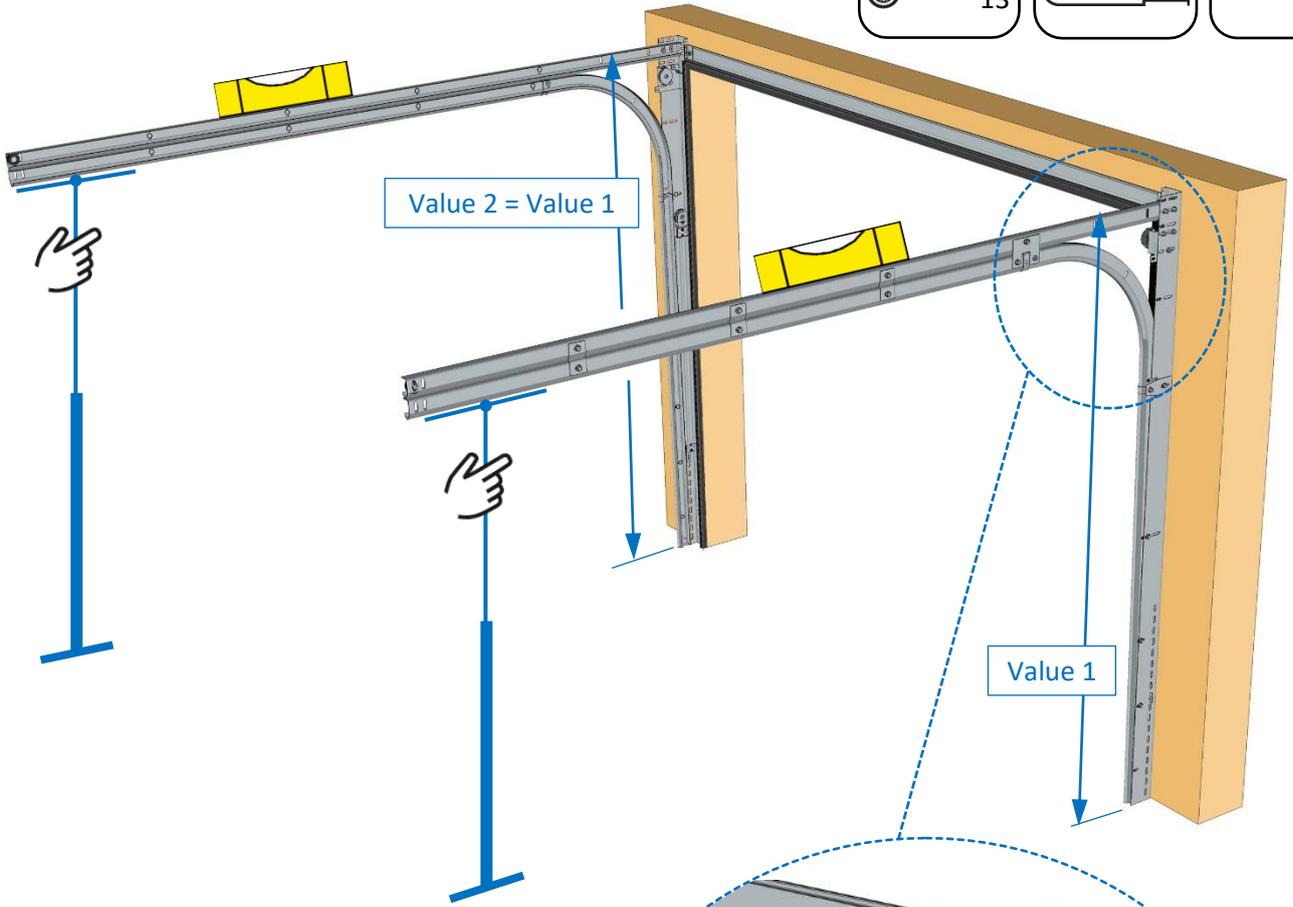
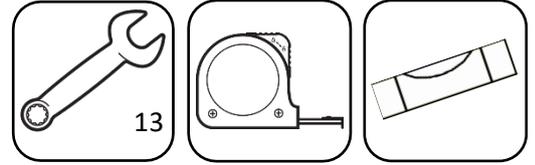
OR



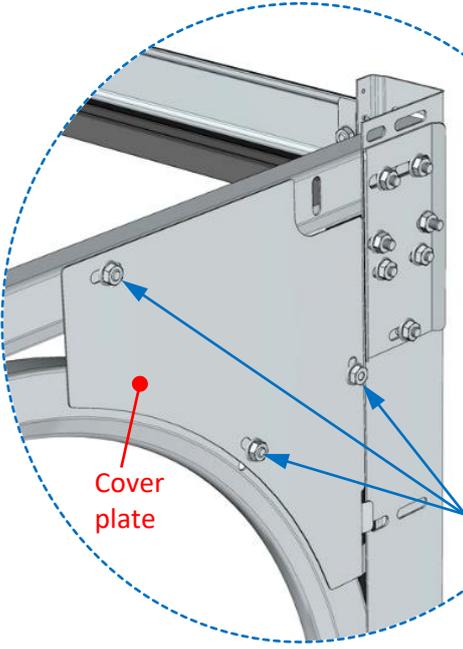
**⚠ To make adjustment simpler during assembly, do not fully tighten the screws with nuts.**

Fixing the horizontal rails

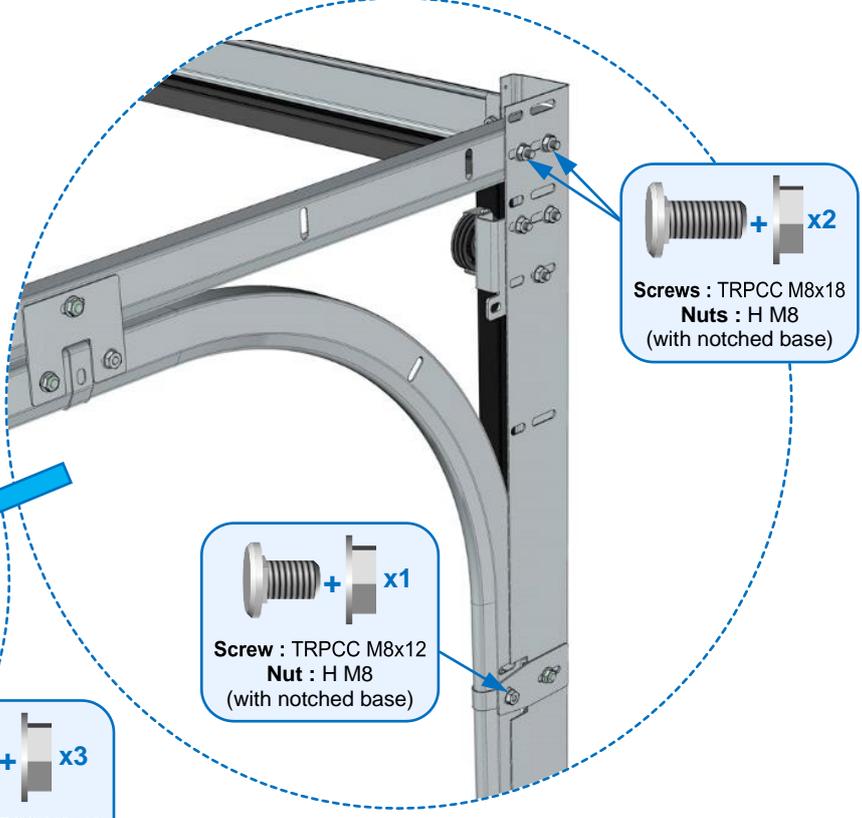
MOTORISED door



REINFORCEMENT  
Shutter > 100 kg



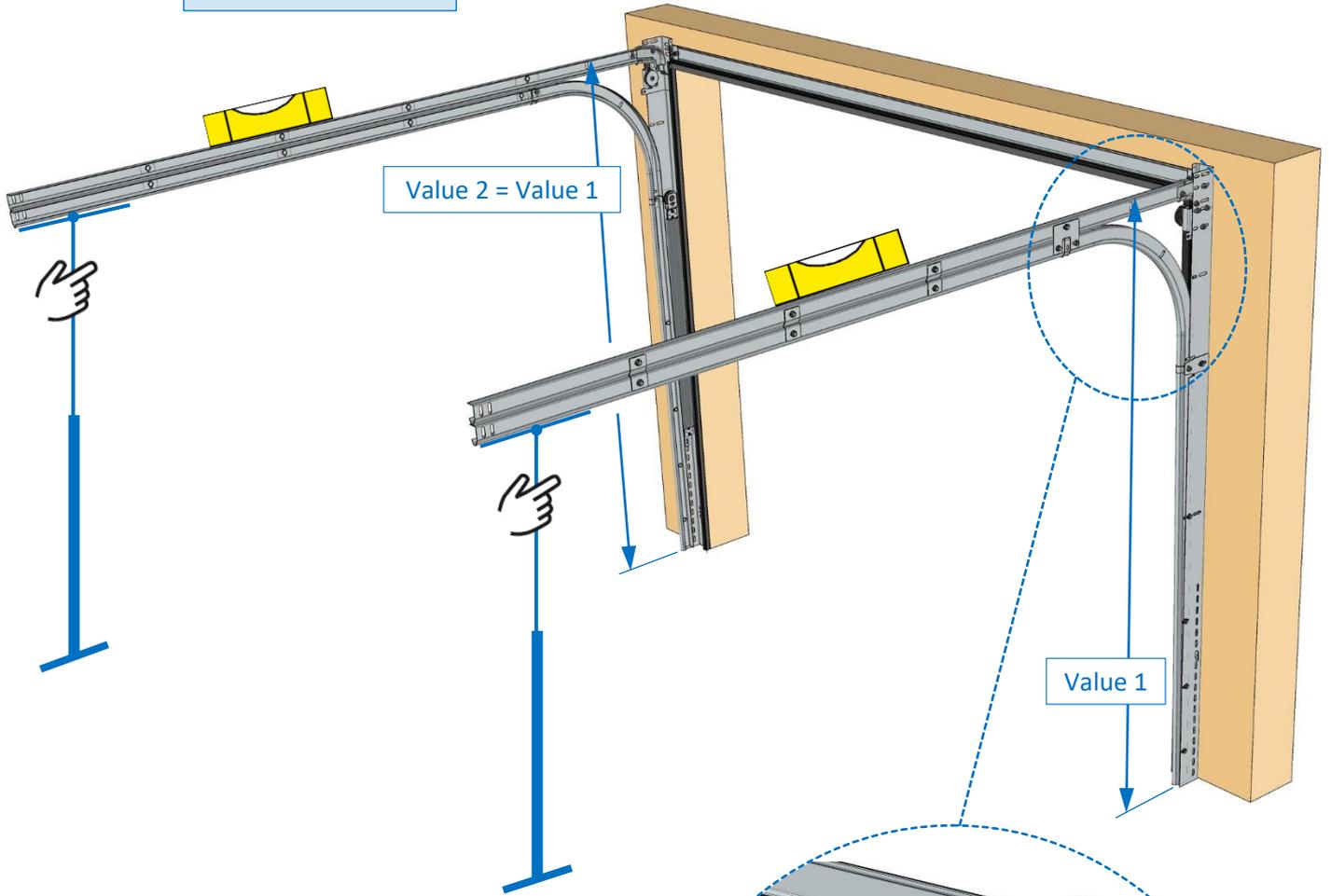
Screws : TRPCC M8x12  
Nuts : H M8  
(with notched base) x3



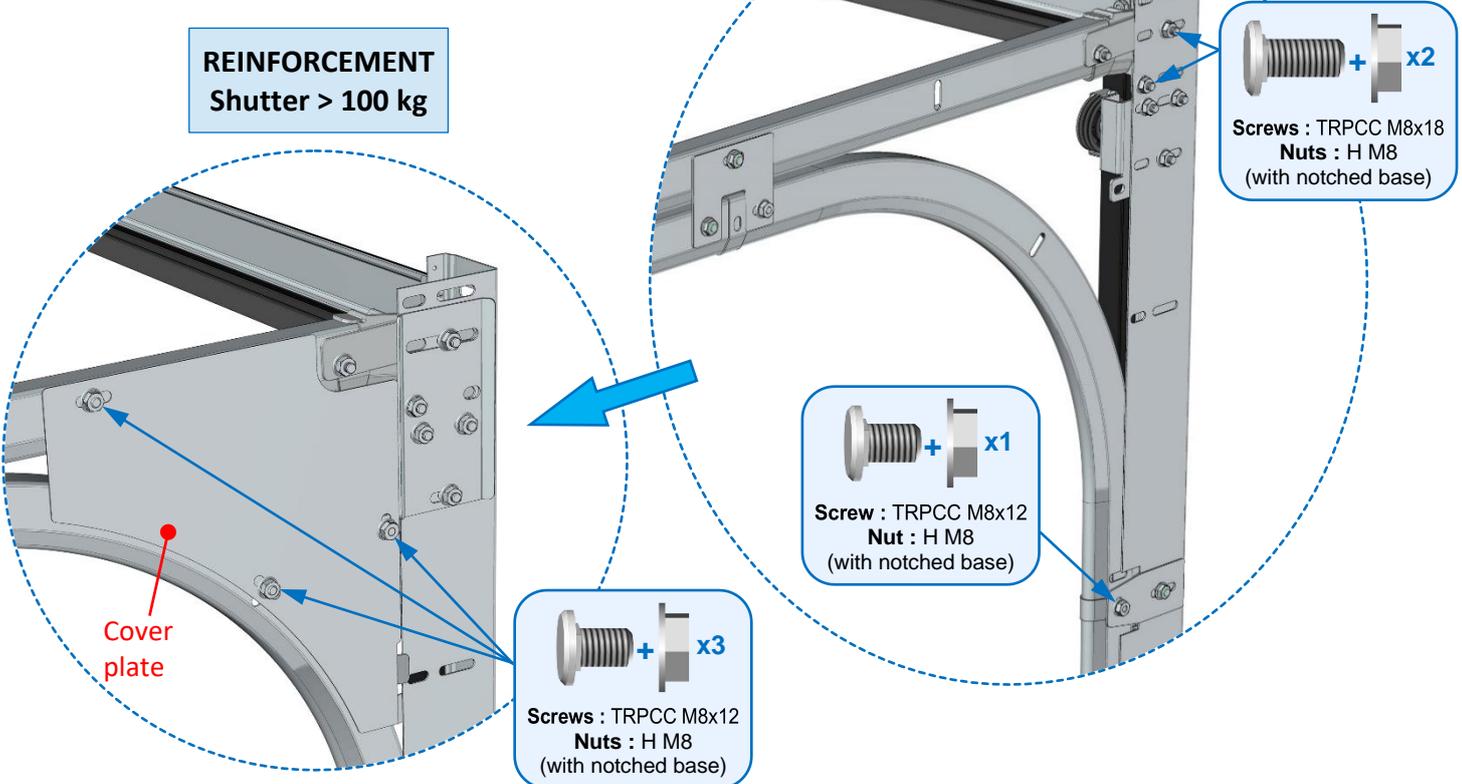
Screws : TRPCC M8x18  
Nuts : H M8  
(with notched base) x2

Screw : TRPCC M8x12  
Nut : H M8  
(with notched base) x1

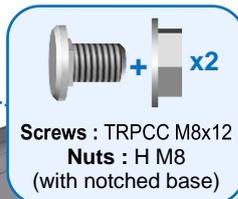
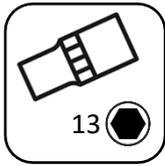
**MANUAL door**



**REINFORCEMENT  
Shutter > 100 kg**



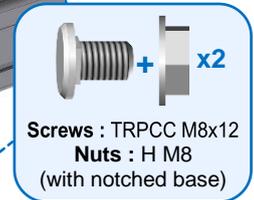
## Assembling the back bar brackets



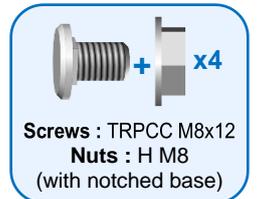
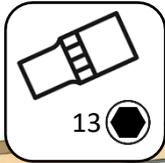
End of back bar in contact with bracket

**MANUAL door : OH < 130 mm**  
**MOTORISED door : OH < 130 mm**  
"Sommer" or "Liftmaster (if PH > 2,125 mm)"

Back bar end aligned with end of bracket



## Installing the back bar



**MANUAL door**

OH < 130 mm

**MOTORISED door**

OH < 130 mm  
Sommer or Liftmaster  
(if PH > 2,125 mm) operator only

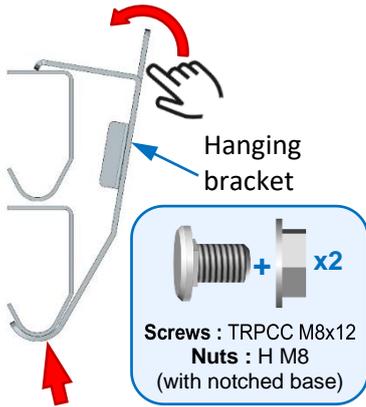
or

OH ≥ 130 mm

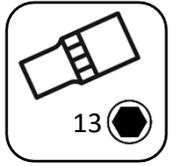
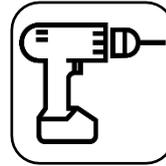
or

**"All operators"**  
Except {  
• Sommer OH < 130 mm  
• Liftmaster OH < 130 mm  
(if PH > 2,125 mm)

## Installing the hangers



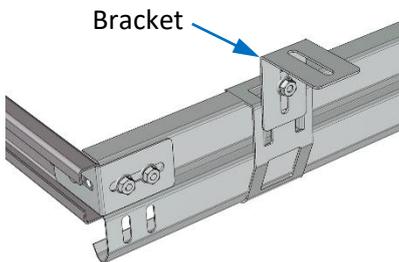
**Do not fasten the hangers to the masonry.  
Do not fully tighten the screws with nuts.**



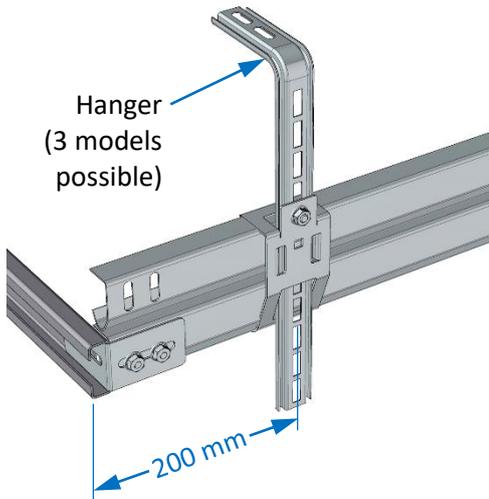
**Adapt the number of hangers to the dimensions of the doors :**

- 2 hangers, if PW ≤ 3,000 or PH ≤ 2,150 mm
- 4 hangers, if PW > 3,000 or PH > 2,150 mm

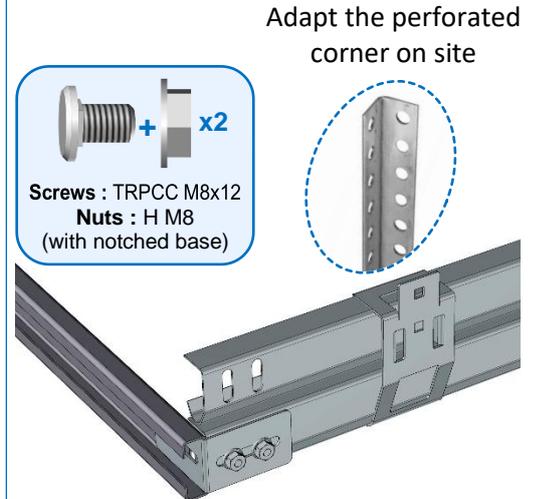
### Assembly : OH < 130 mm



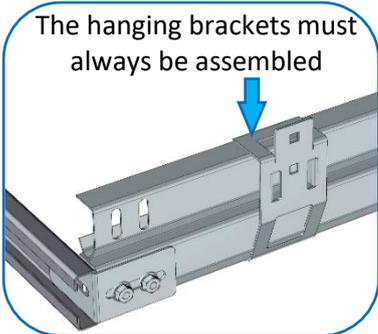
### Assembly : 130 mm ≤ OH ≤ 440 mm



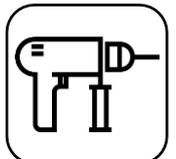
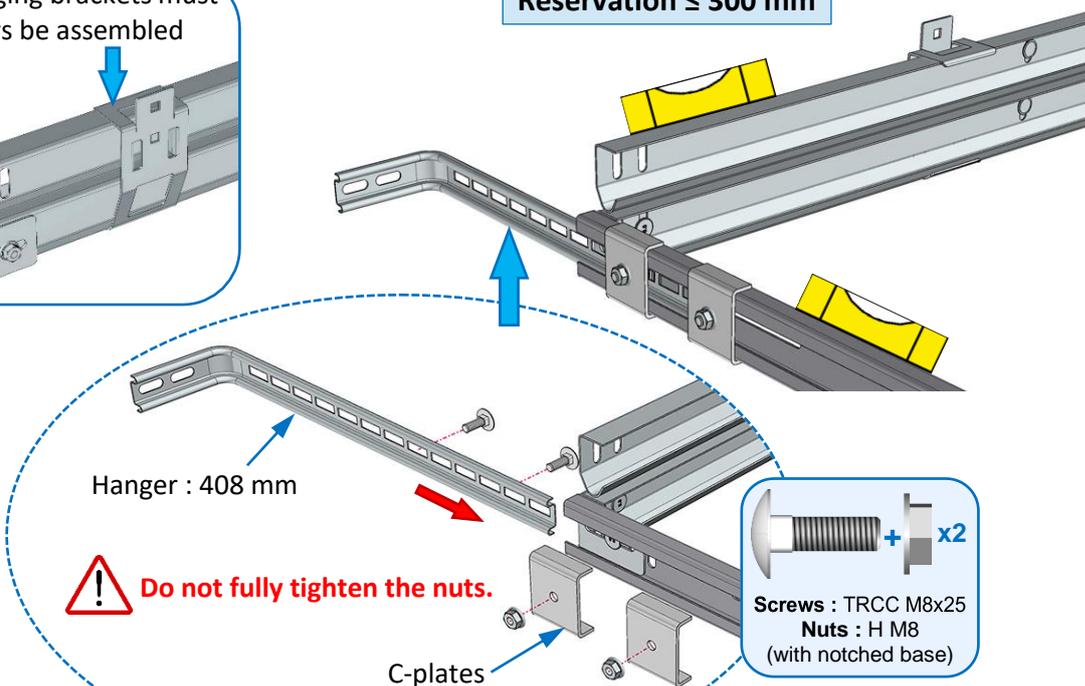
### Assembly : OH > 440 mm



## Back bar extension (option)

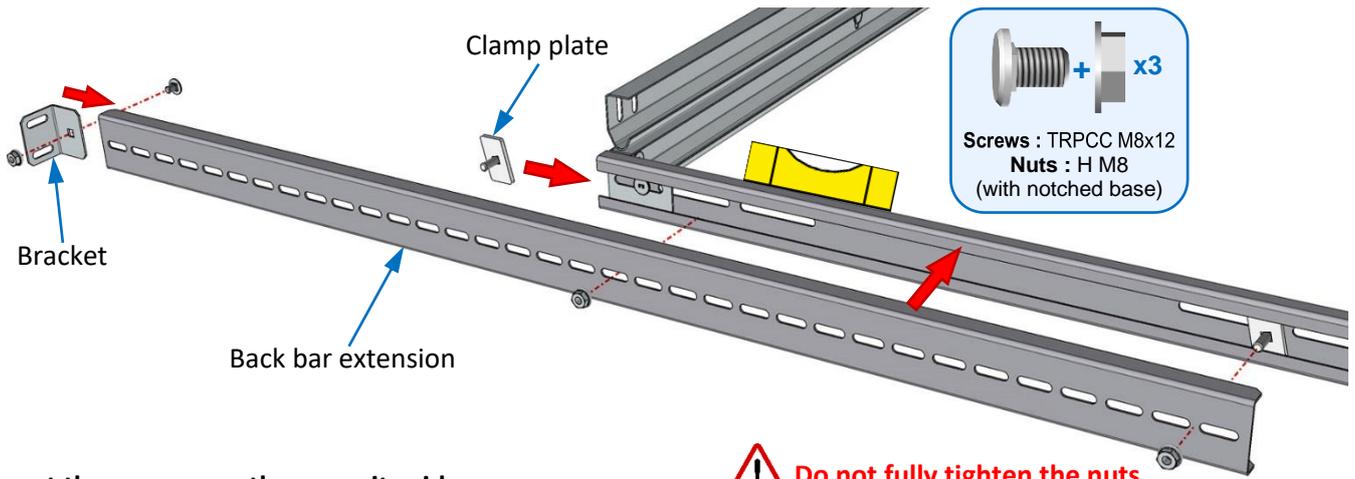


### Reservation ≤ 300 mm



Repeat the process on the opposite side

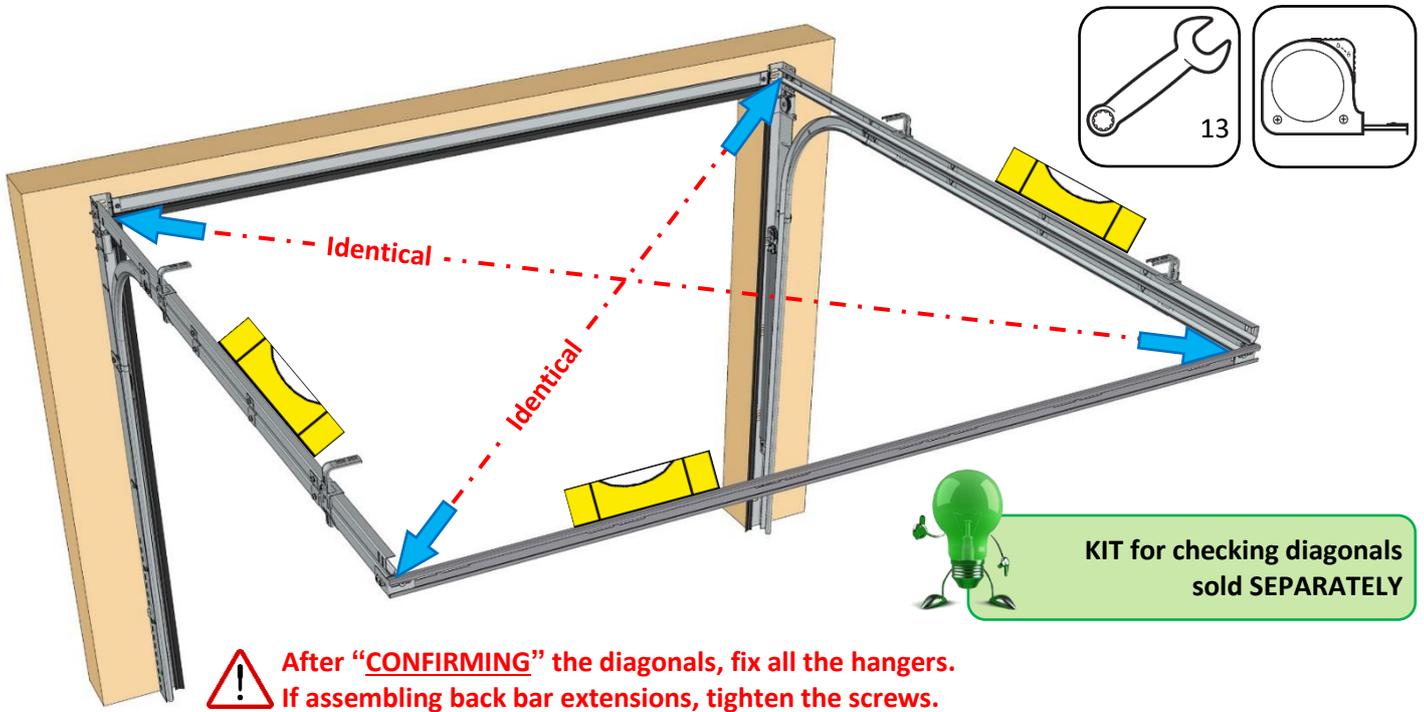
300 mm < Reservation ≤ 1,000 mm



Repeat the process on the opposite side.

⚠ Do not fully tighten the nuts.

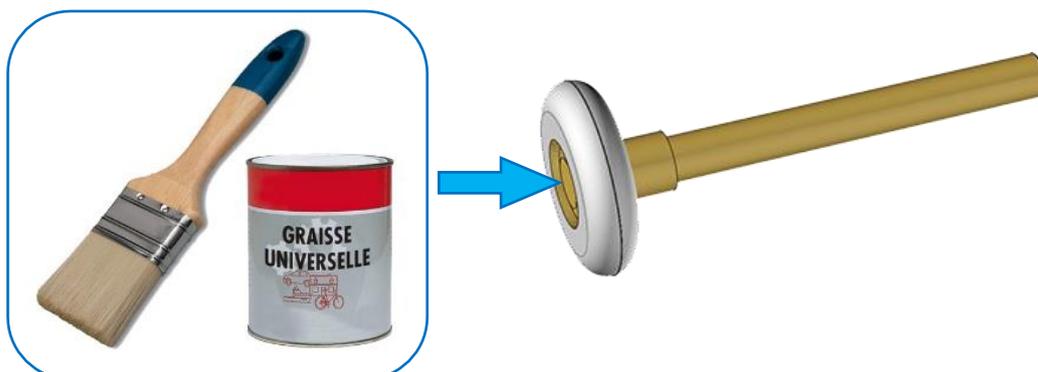
## Checking the diagonals



⚠ After "CONFIRMING" the diagonals, fix all the hangers. If assembling back bar extensions, tighten the screws.

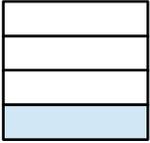
## Shutter assembly

### Grease all roller shafts

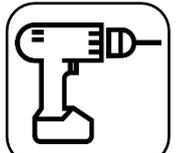


## Panel preparation

### BOTTOM PANEL



**! OPTION tandem**



**x8**  
Screws : Self-drilling  
TB Torx 6.3x25

OR

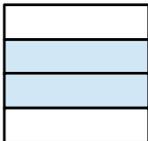
**x2**  
Screws : Self-drilling  
TB Torx 6.3x25

**x2**  
Screws : Self-drilling  
TB Torx 6.3x25

**! To be assembled on one**

**! No central hinge if door PW ≤ 2,600 mm**

### INTERMEDIATE PANEL(S)



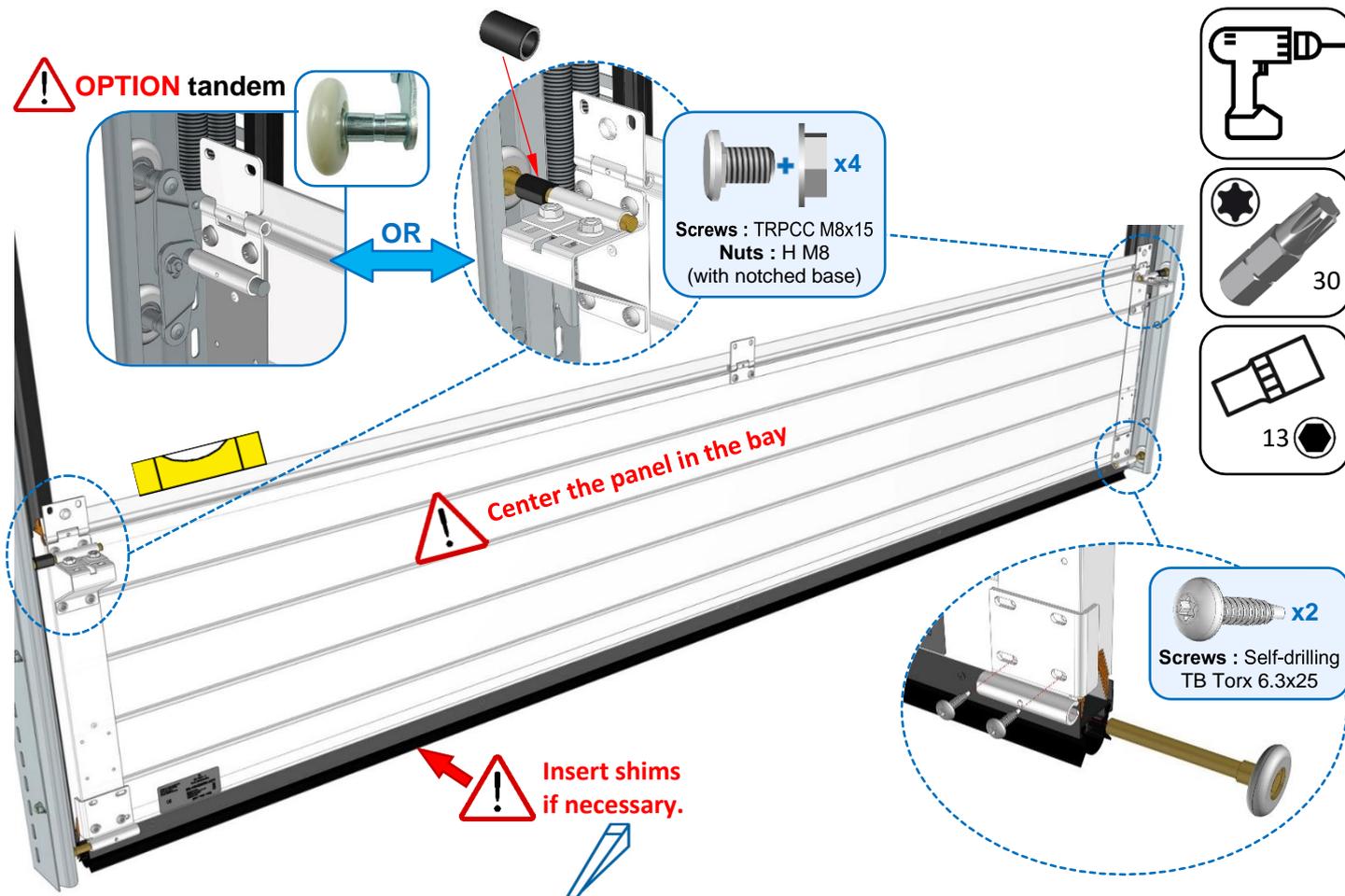
**x2**  
Screws : Self-drilling  
TB Torx 6.3x25

**x8**  
Screws : Self-drilling  
TB Torx 6.3x25

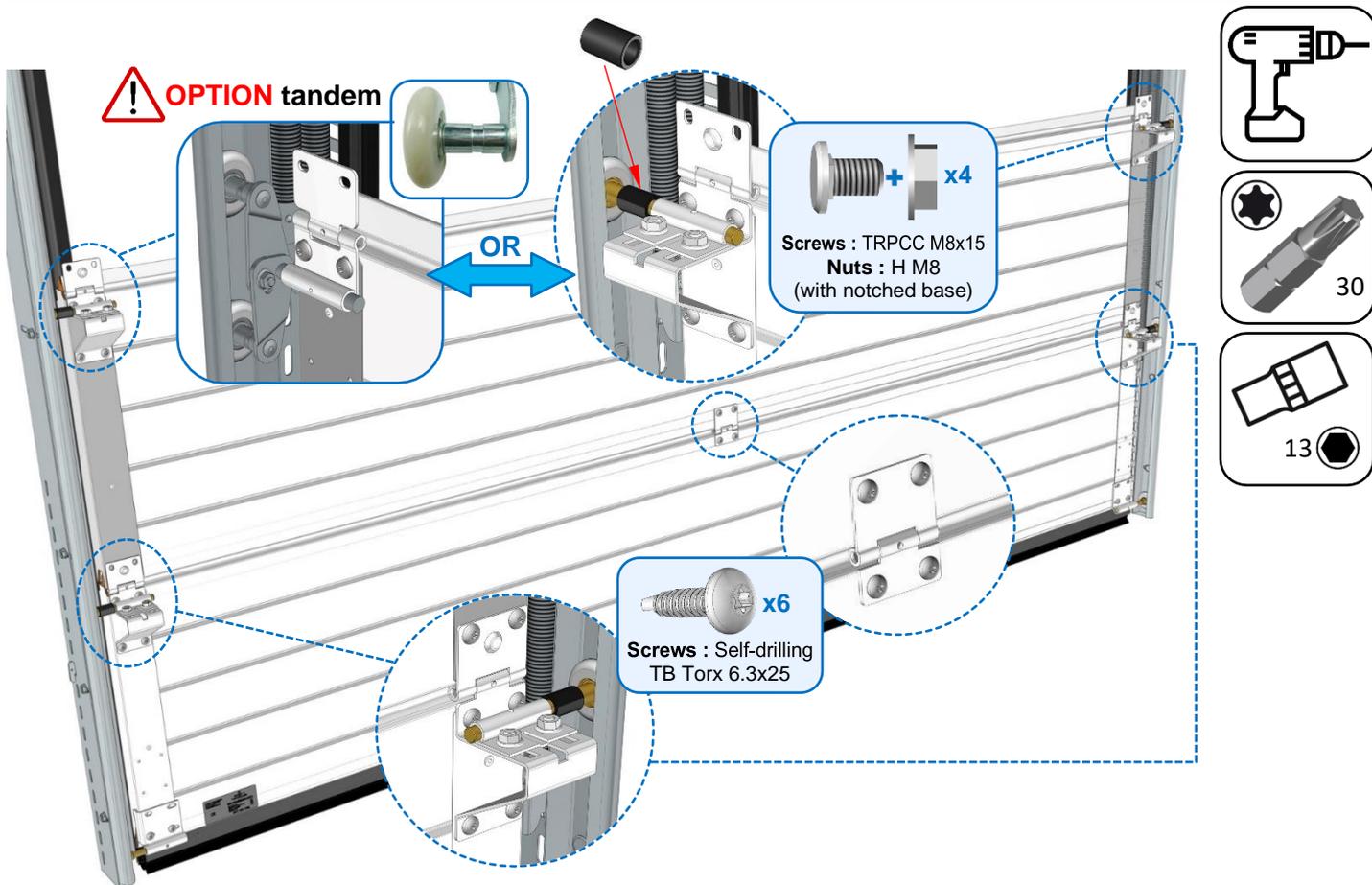
OR

**! OPTION tandem**

### Installing the bottom panel

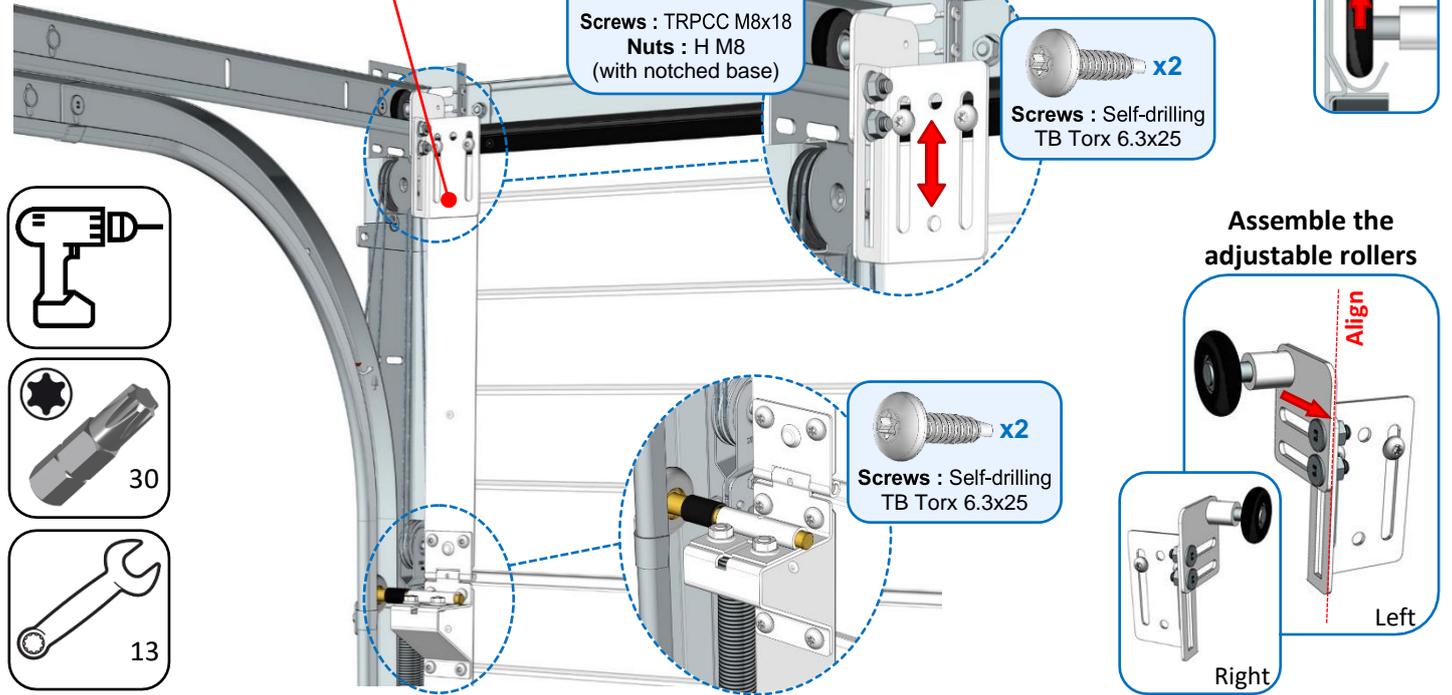


### Installing the intermediate panel(s)

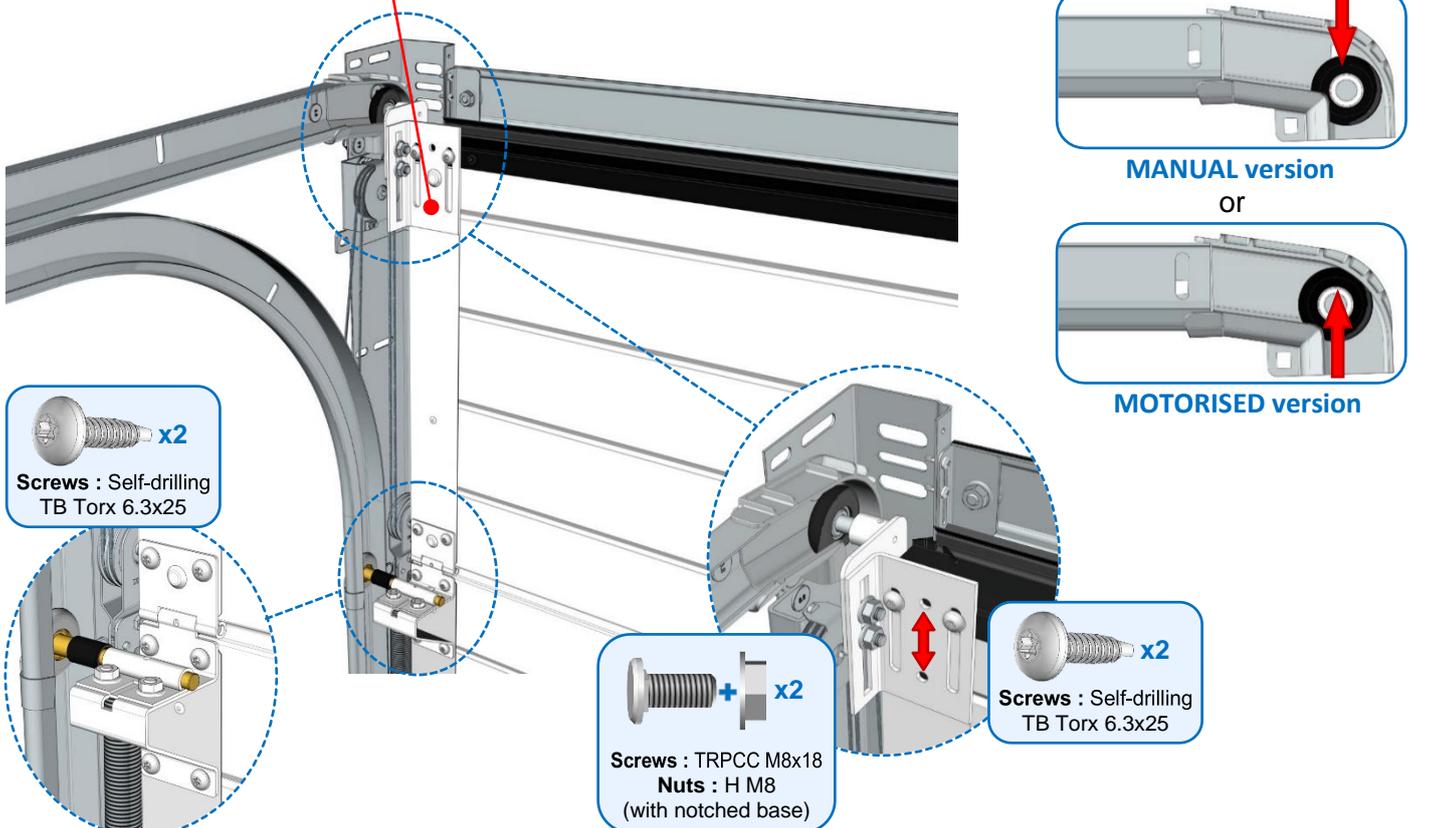


## Installing the top panel

**IMPORTANT :** Remove the transport rivet from the edged column, so that the upper roller support rests on a flat surface (identical process on opposite side).

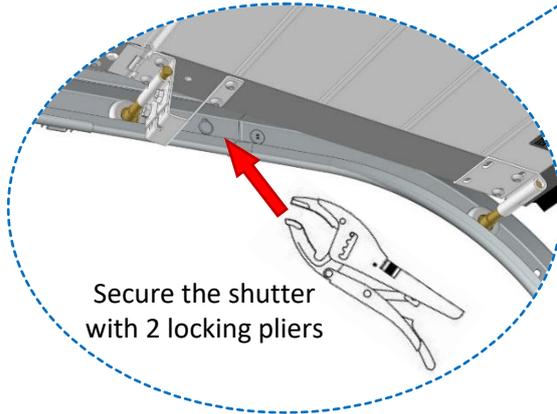
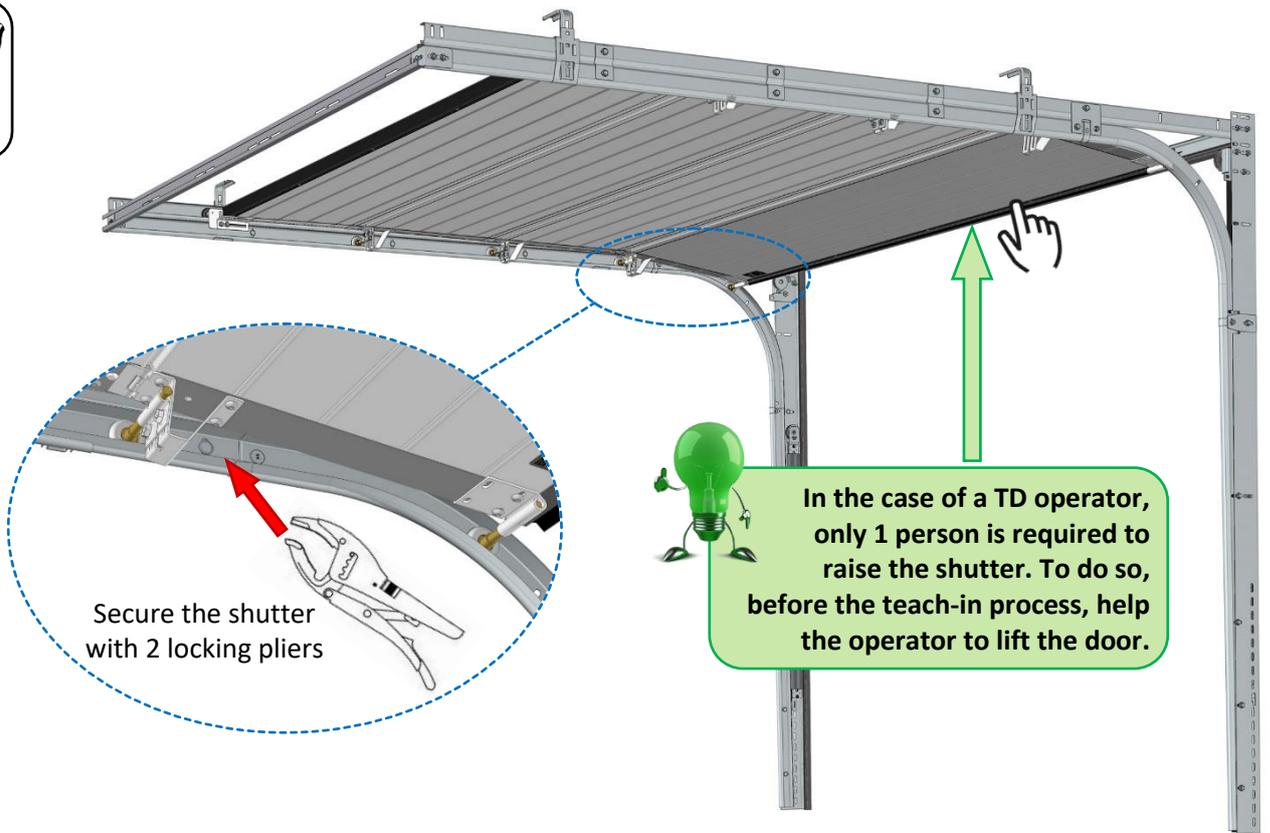


**IMPORTANT :** Remove the transport rivet from the edged column, so that the upper roller support rests on a flat surface (identical process on opposite side).



# Cable attachment

## Opening the shutter



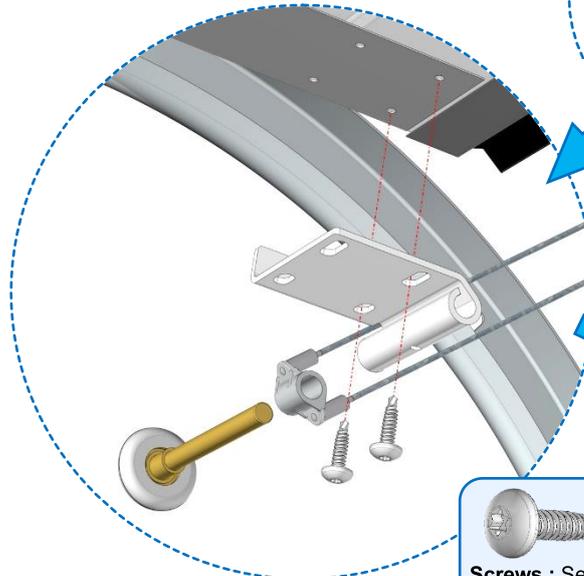
## Cable attachment points



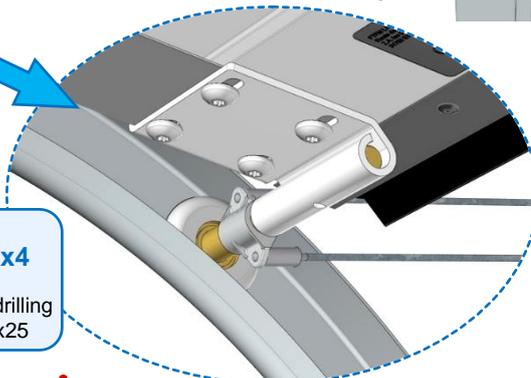
Cut the left side of the cable-clamp



Pass the cable holder over the bottom roller



Raise the assembly



Check that the cables do not cross (parallel cables).

Repeat the process on the opposite side.

## Checking the balance



Remove the **locking pliers**.

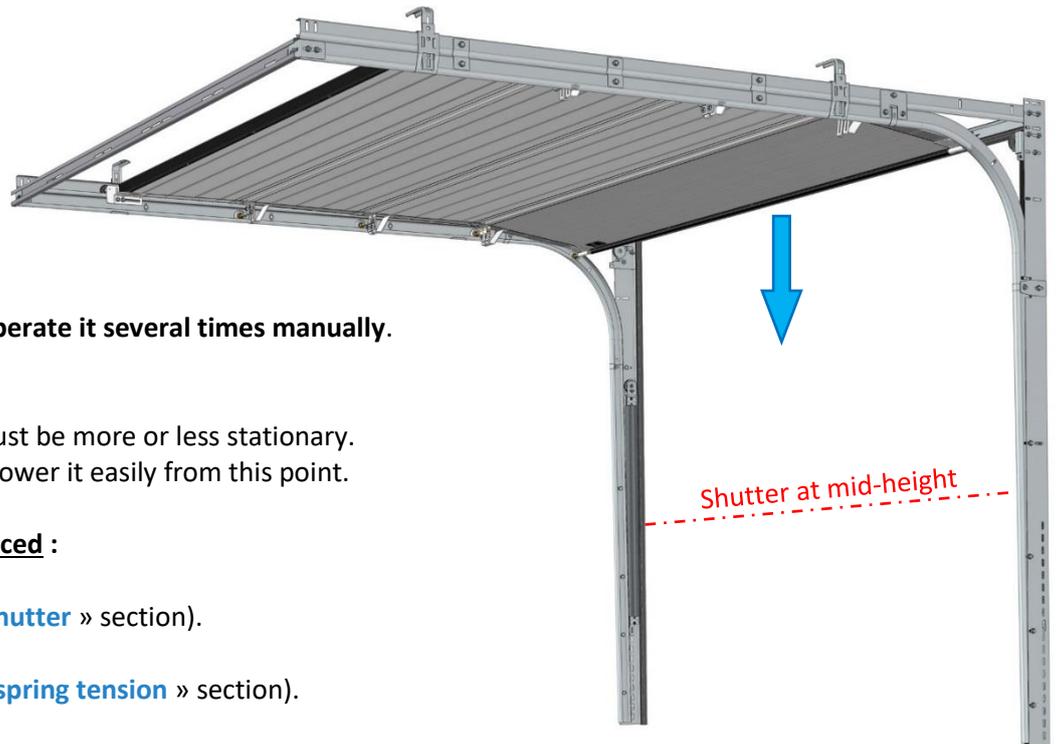
Gently close the shutter and **operate it several times manually**.

### The shutter is well-balanced :

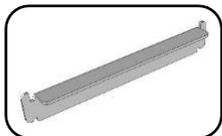
- At mid-height, the shutter must be more or less stationary.  
You must be able to raise or lower it easily from this point.

### If the shutter is not well-balanced :

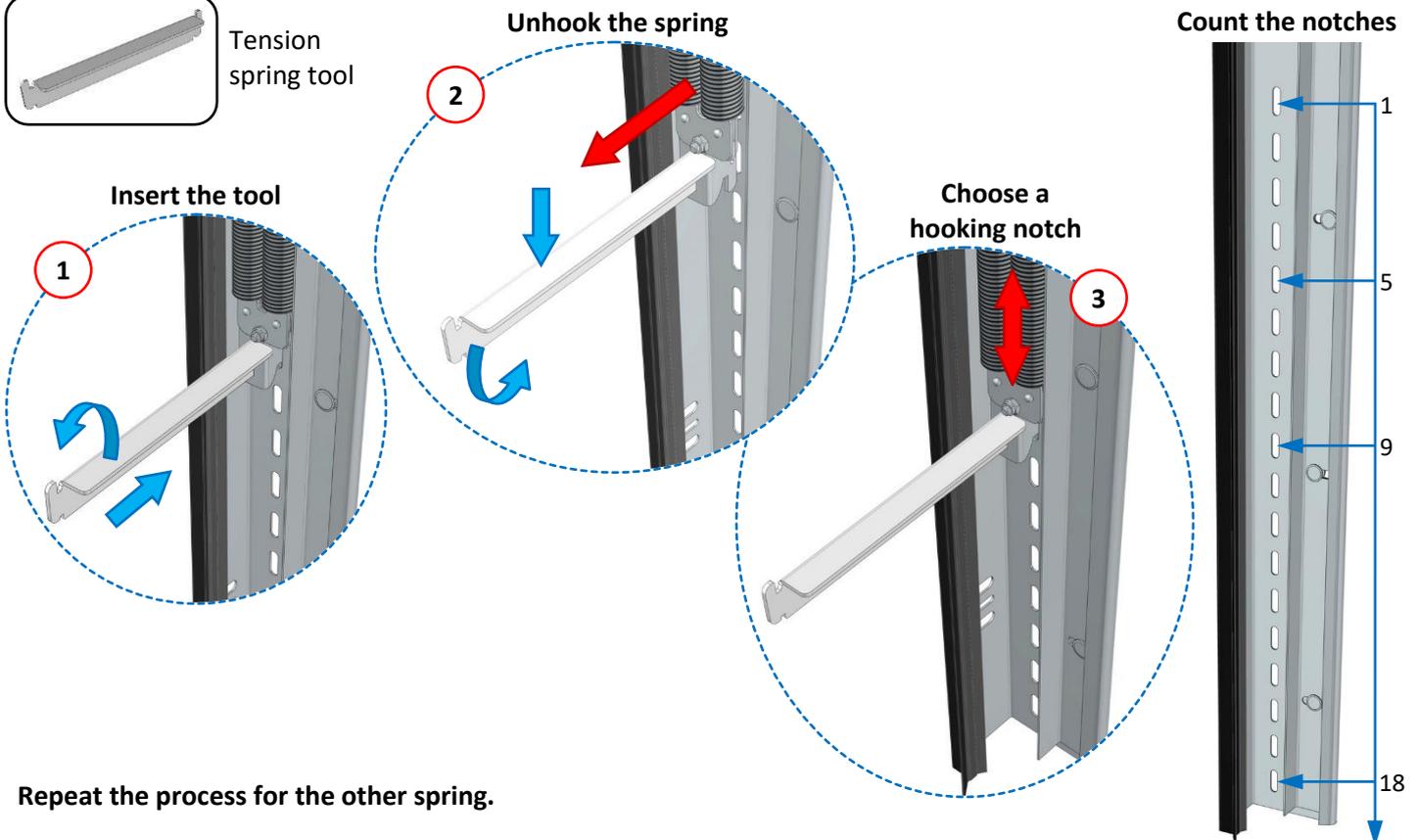
- Raise and secure the shutter (refer to the « **Opening the shutter** » section).
- Tighten or loosen the springs (refer to the « **Adjusting the spring tension** » section).



## Adjusting the spring tension



Tension spring tool



Repeat the process for the other spring.

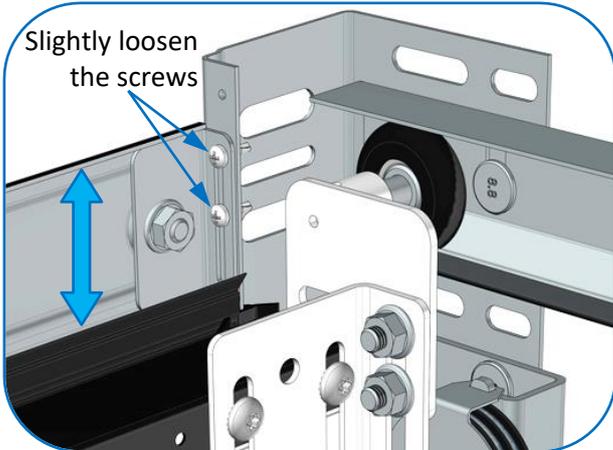
**!** Make sure the 2 springs are positioned on the same notch.  
Check that the spring hooks are securely fastened to the rails.

Check the balance again : Refer to the « **Checking the balance** » section above.

# Finishes

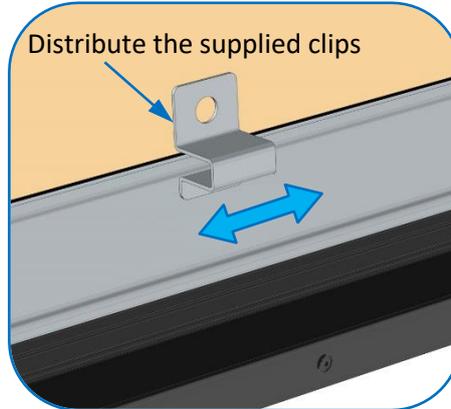
## Adjusting and fixing the fascia

### Adjusting the fascia

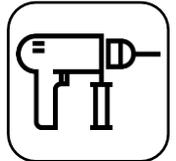
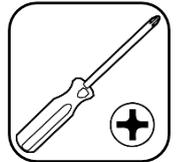


Repeat the process on the opposite side

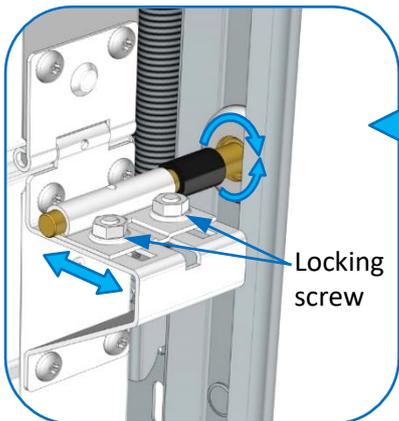
### Fixing the fascia (Install after the operator)



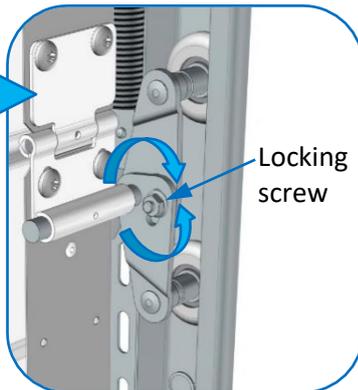
Use appropriate fittings for the support (screws and pins not supplied)



## Adjusting the rollers

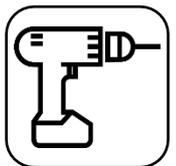
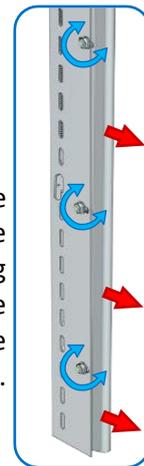


### OPTION tandem



OR

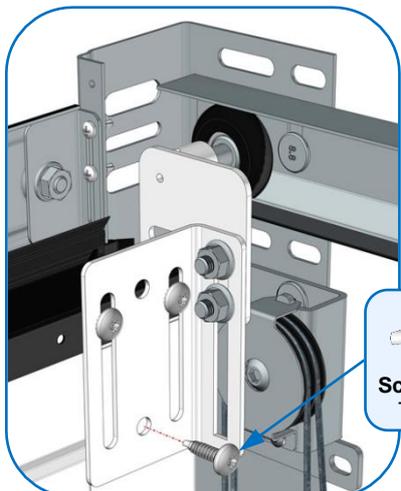
**Please note :** If the shutter jams at the end of the closing operation, move the bottom of the rails apart slightly.



**!** The roller rod must be able to turn freely.  
Do not flatten the vertical seals of the shutter.

Repeat the process for all rollers.

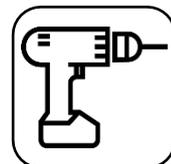
## Fixing the upper roller supports



Add

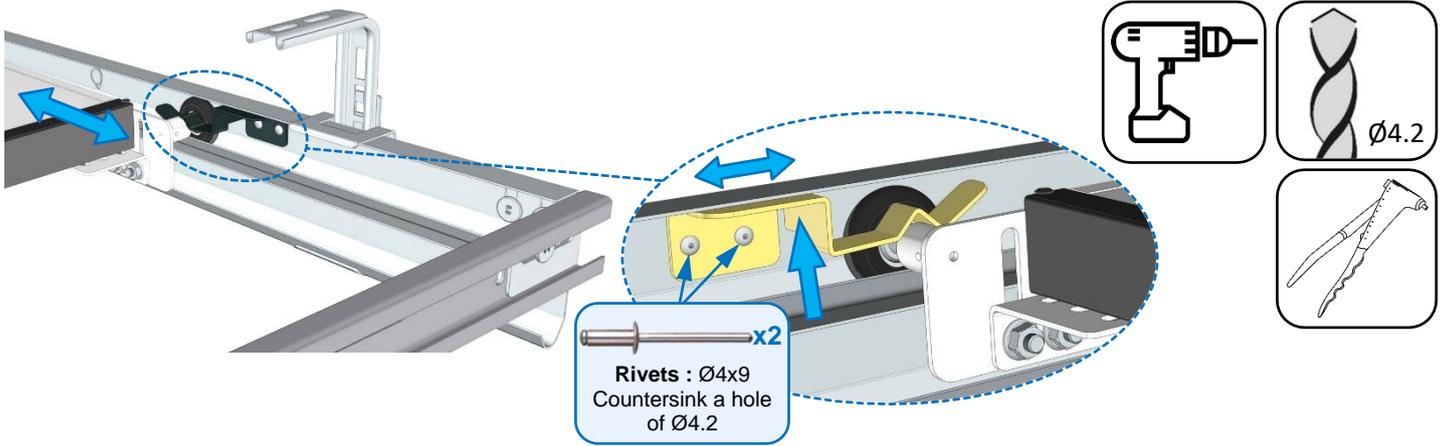


Screw : Self-drilling  
TB Torx 6.3x25



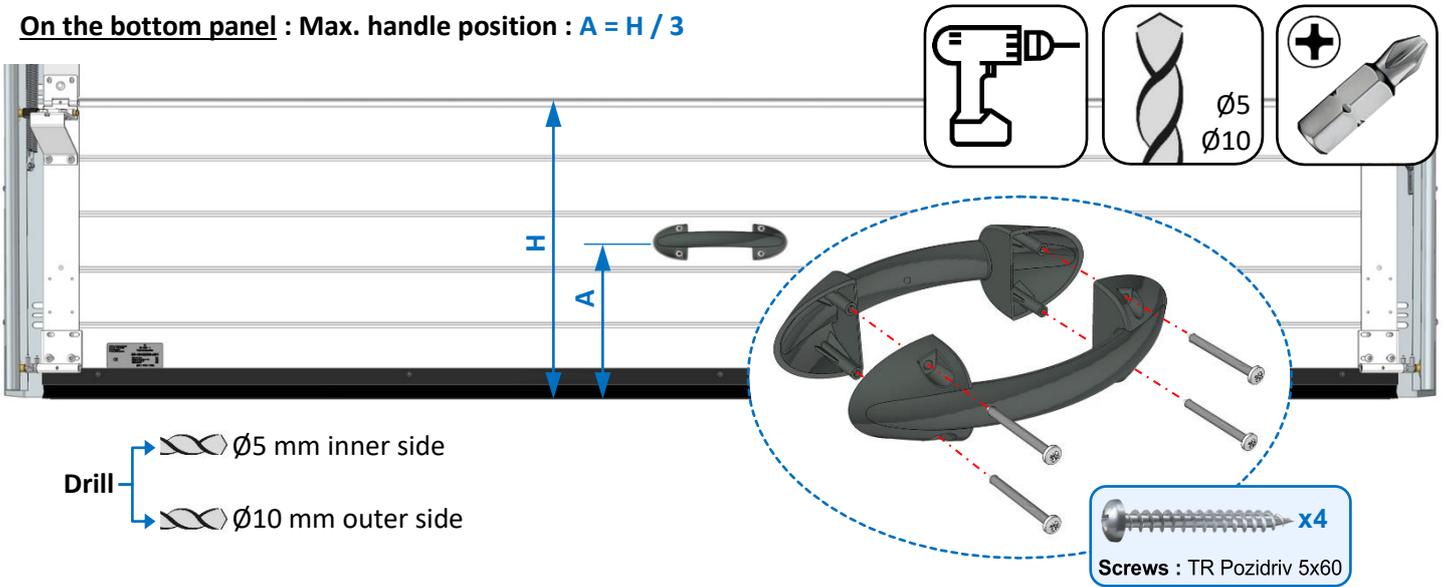
Repeat the process on the opposite side.

### Fixing the end position clips (manual door)



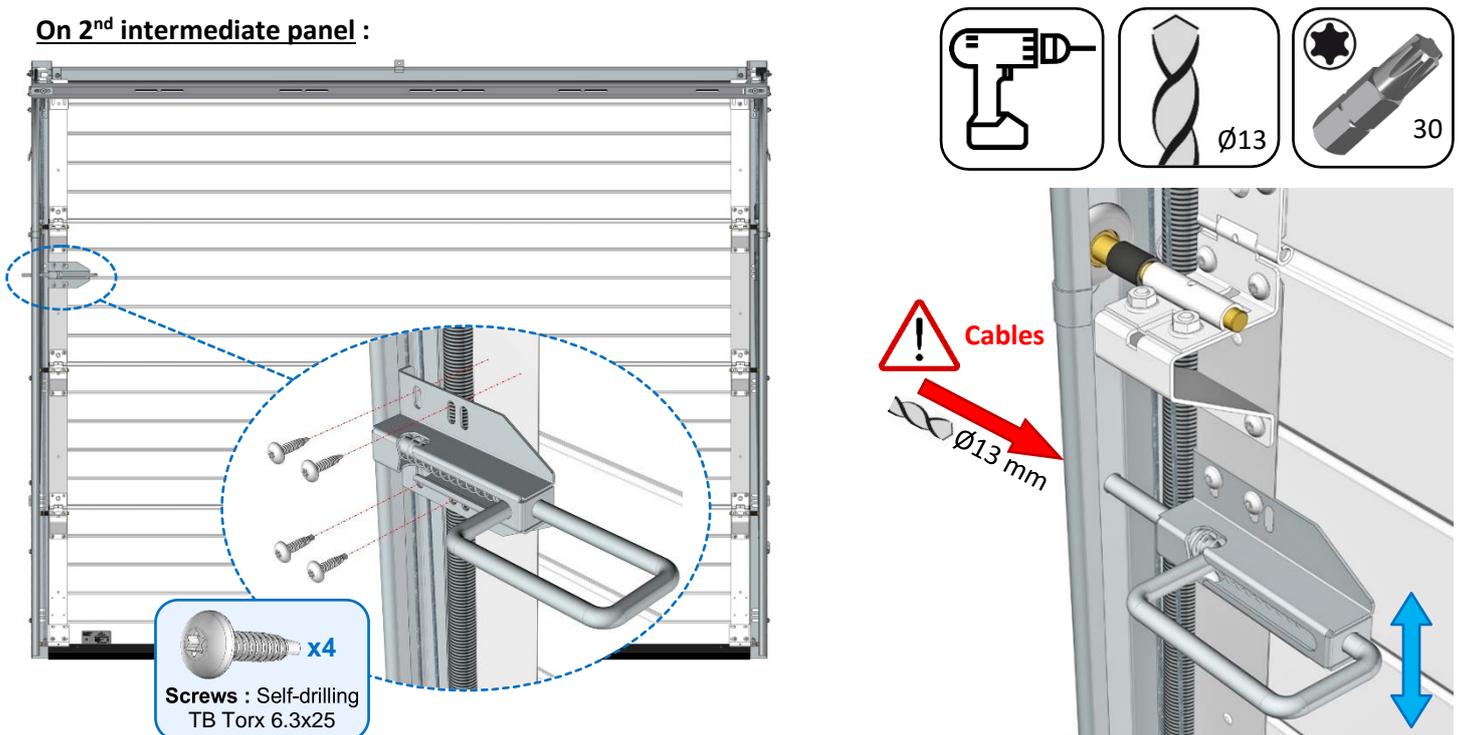
### Assembling the handle

**On the bottom panel :** Max. handle position :  $A = H / 3$



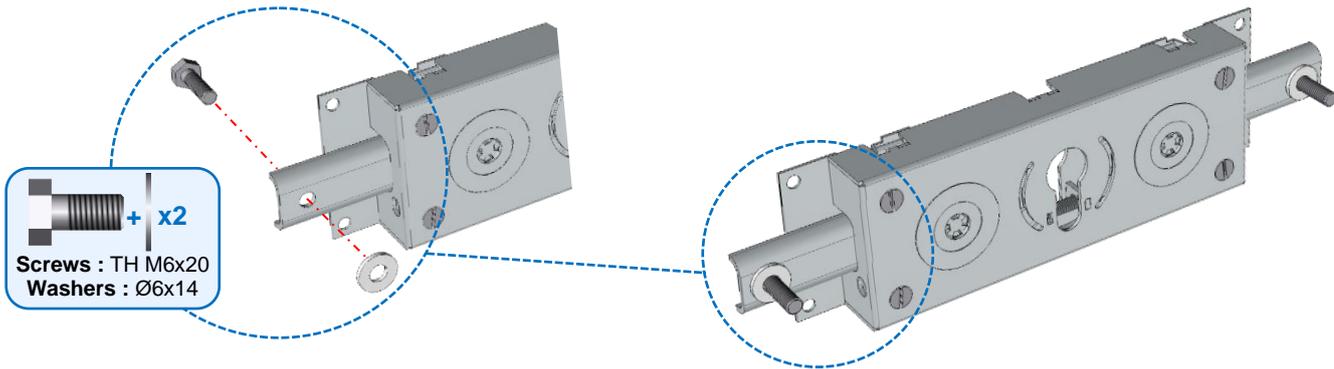
### Assembling the latch (optional on motorised doors)

**On 2<sup>nd</sup> intermediate panel :**

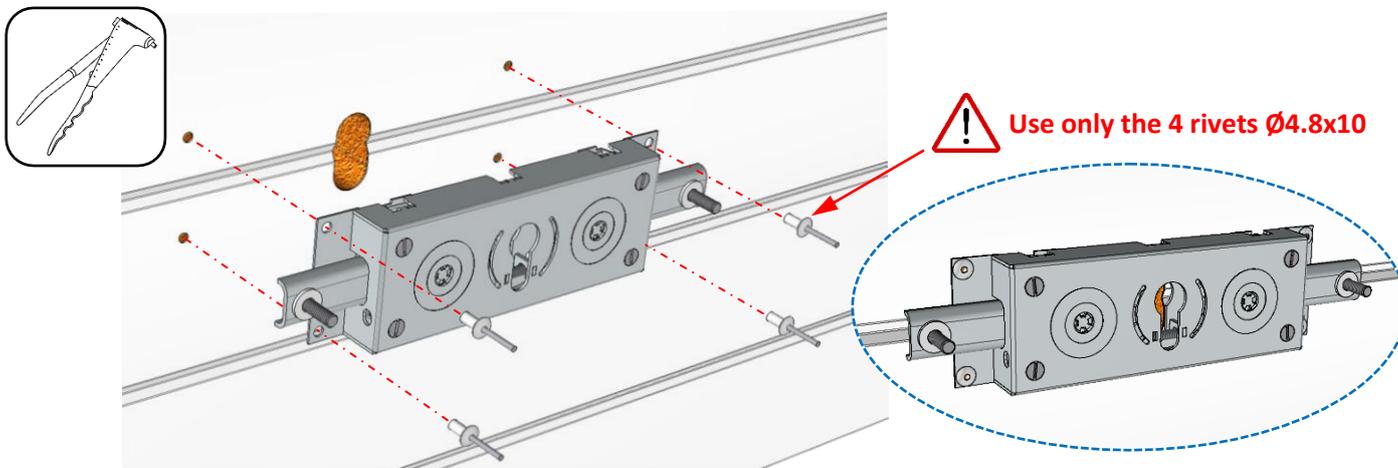


## Installing the lock (optional on motorised and manual doors)

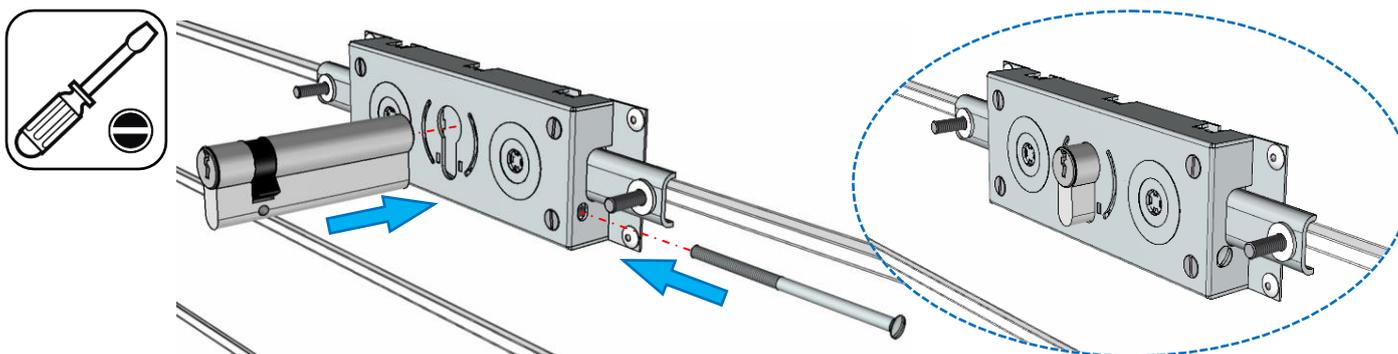
### Prepare the lock :



### Fixing the lock :

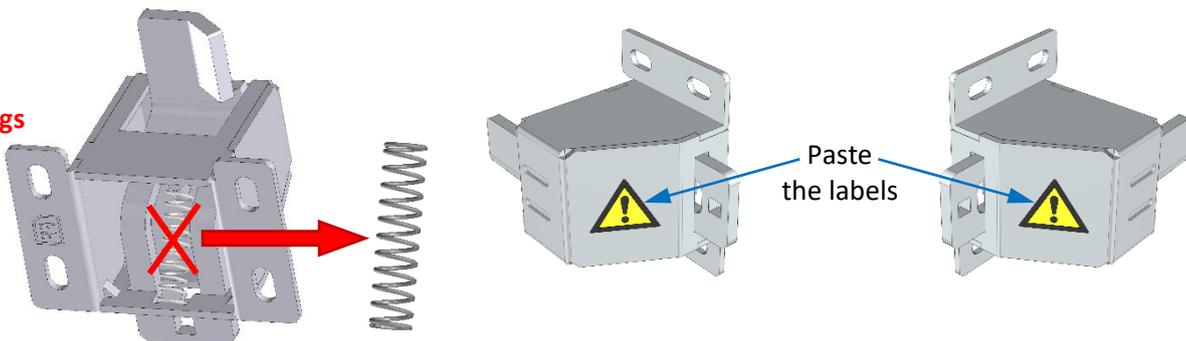


### Assembling the cylinder :

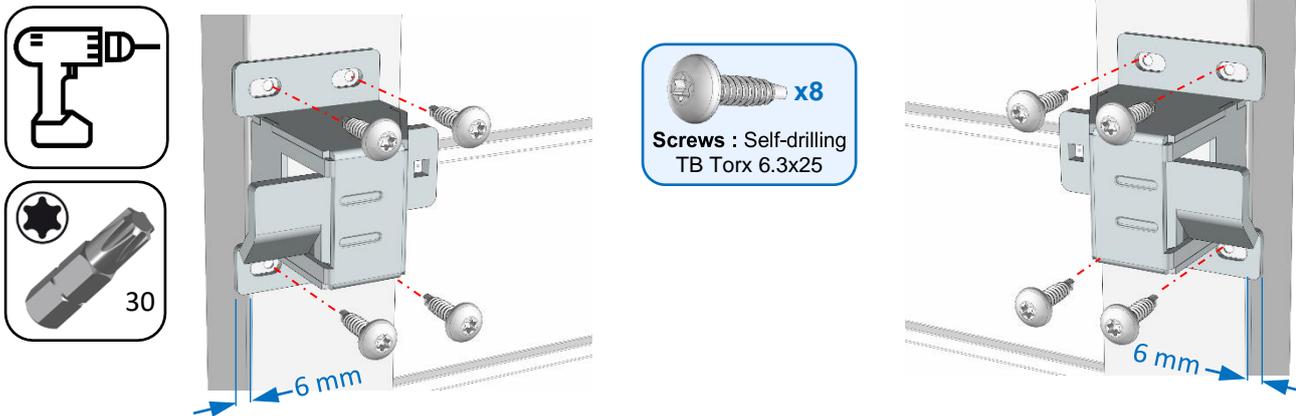


### Preparing the latches (left and right) :

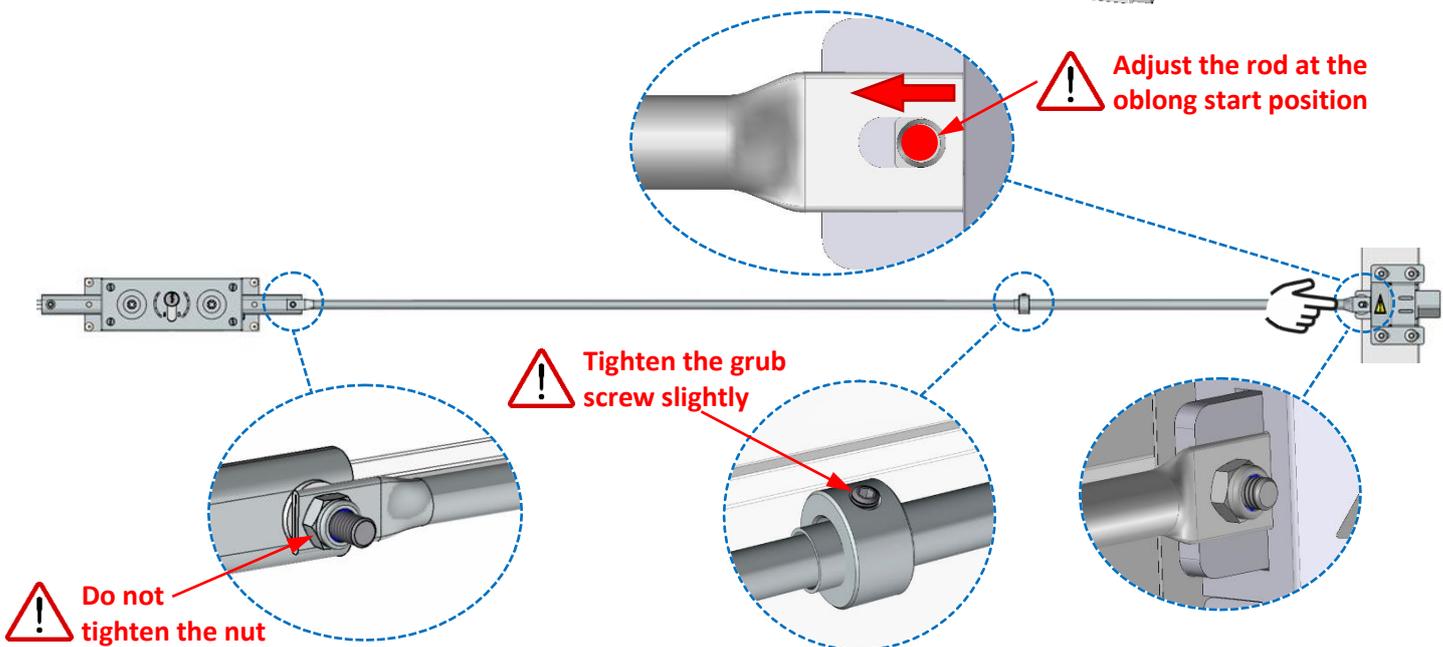
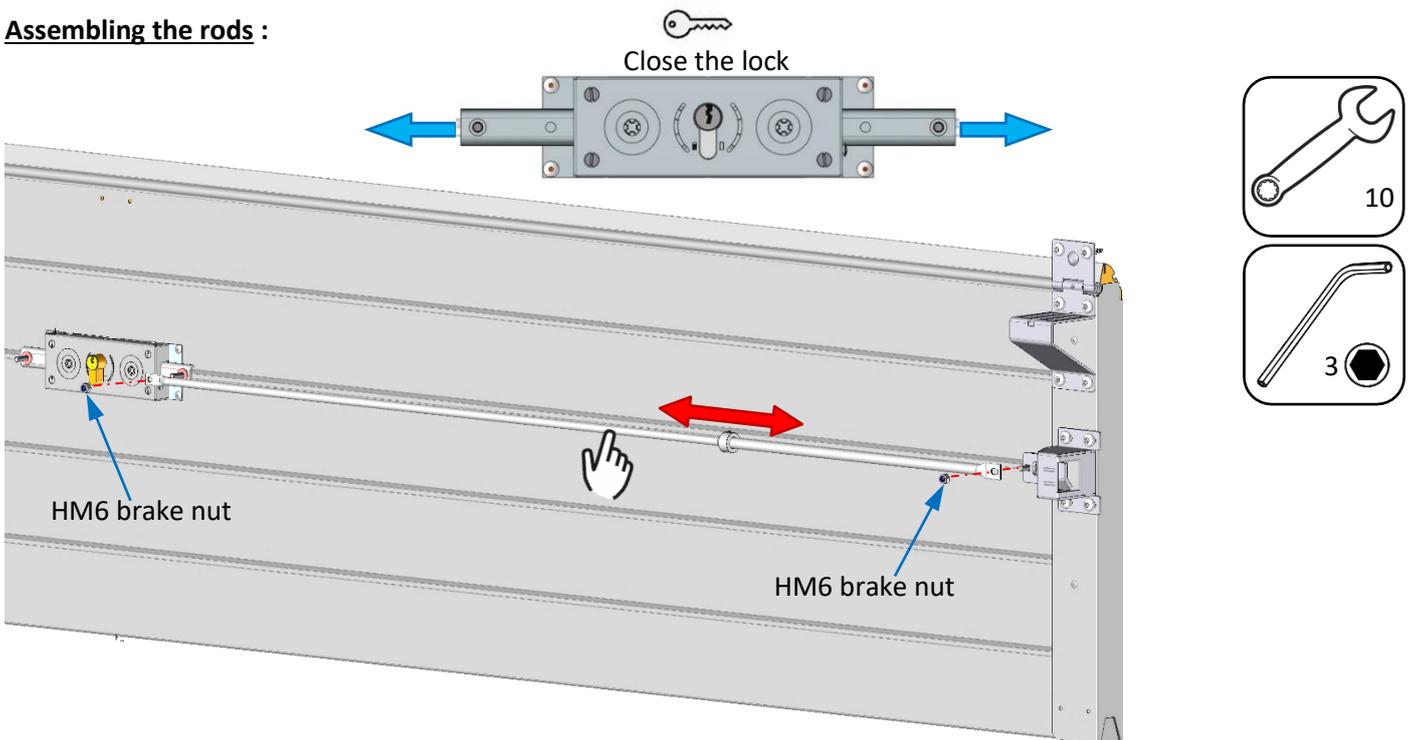
**IMPORTANT**  
Remove the springs from the left and right bolts



**Assembling the latches (left and right) :**

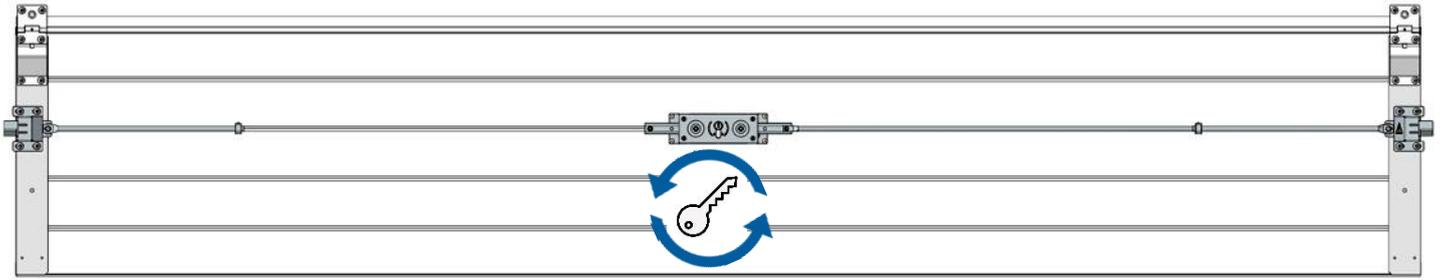


**Assembling the rods :**



Repeat the procedure for the second rod.

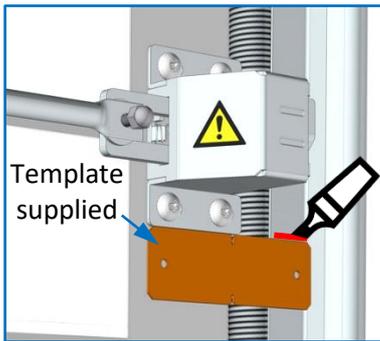
**Checking the lock :**



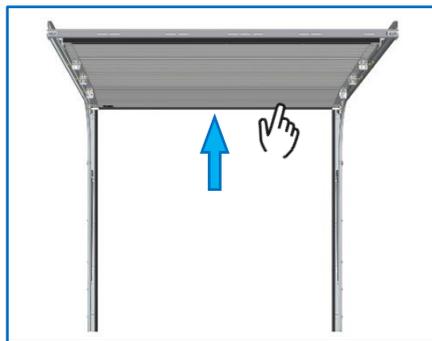
If necessary, return to the « **Assembling the rods** » section.

**Positioning the strike plates :**

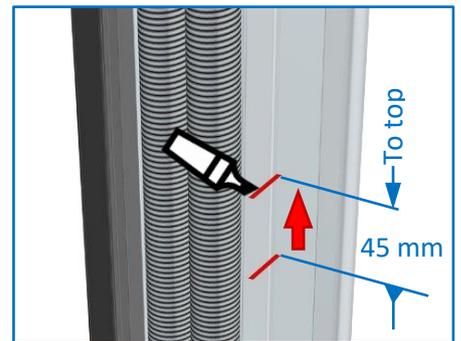
**1- Mark out (on the 2 latches)**



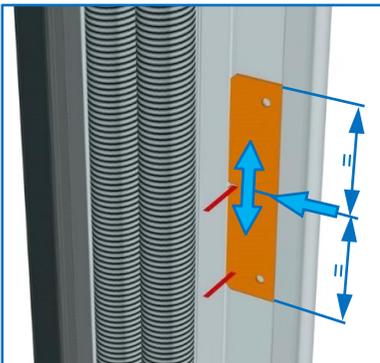
**2- Open the shutter**



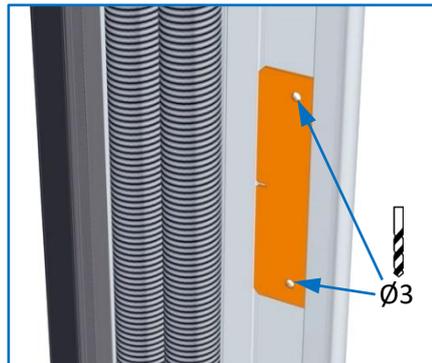
**3- Offset the marking**



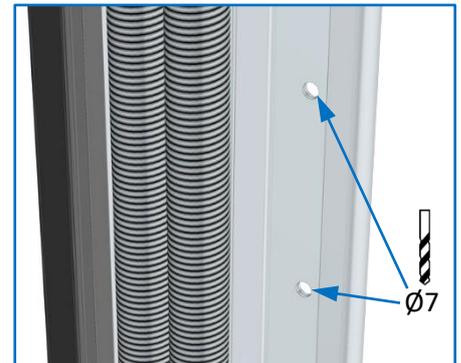
**4- Position the template**



**5- Mark out the drill holes**



**6- Drill the holes**



**Fixing the strike plates :**



Screws : TRPCC M6x16  
Nuts : H M6  
(with notched base)

**Do not fully tighten the nuts**

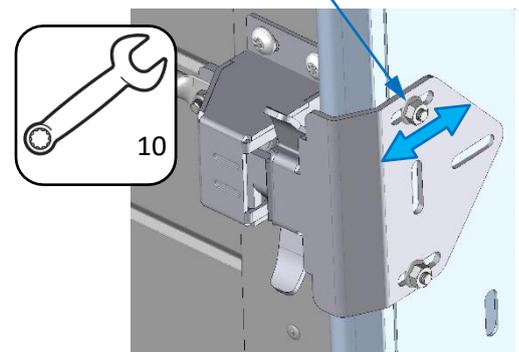
**Close the shutter**



**Close the lock**

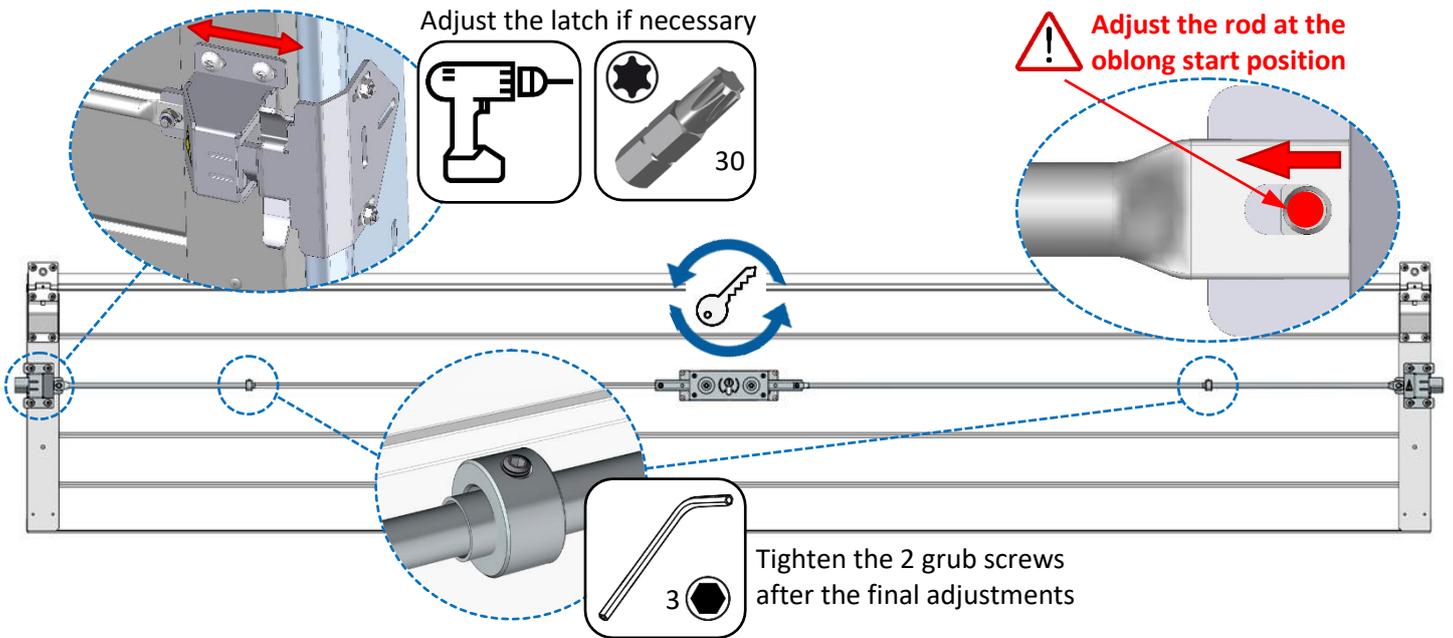
**Adjust the strike plates**

Tighten the nuts after adjusting

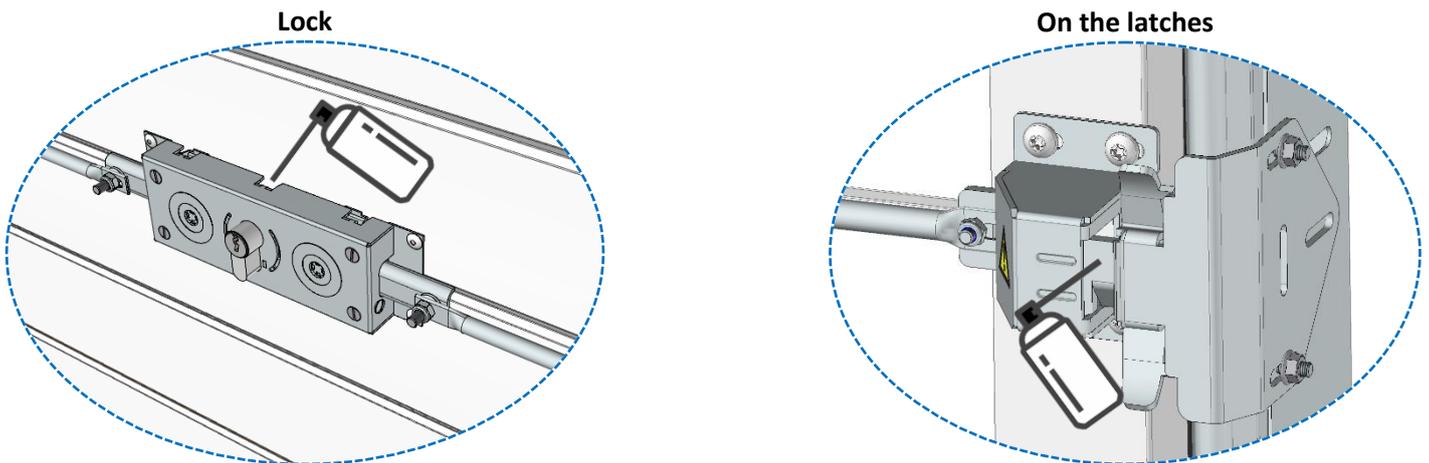


**Allow some play between the strike plate and the latch**

**Checking the lock :**



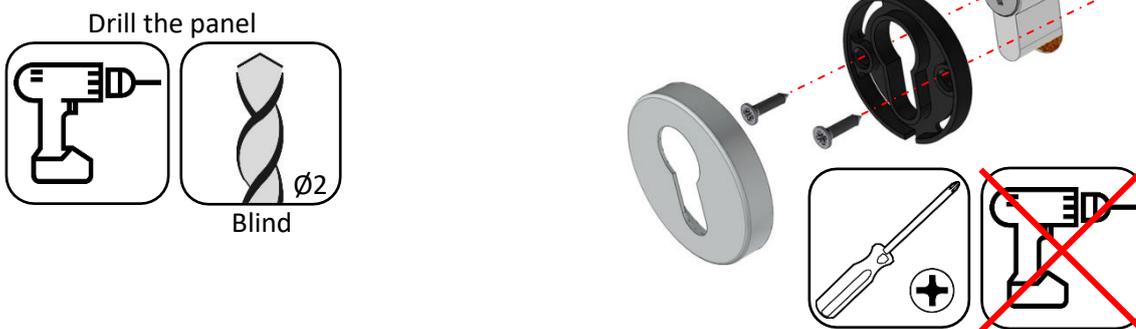
**Lightly grease the lock and the 2 latches :**



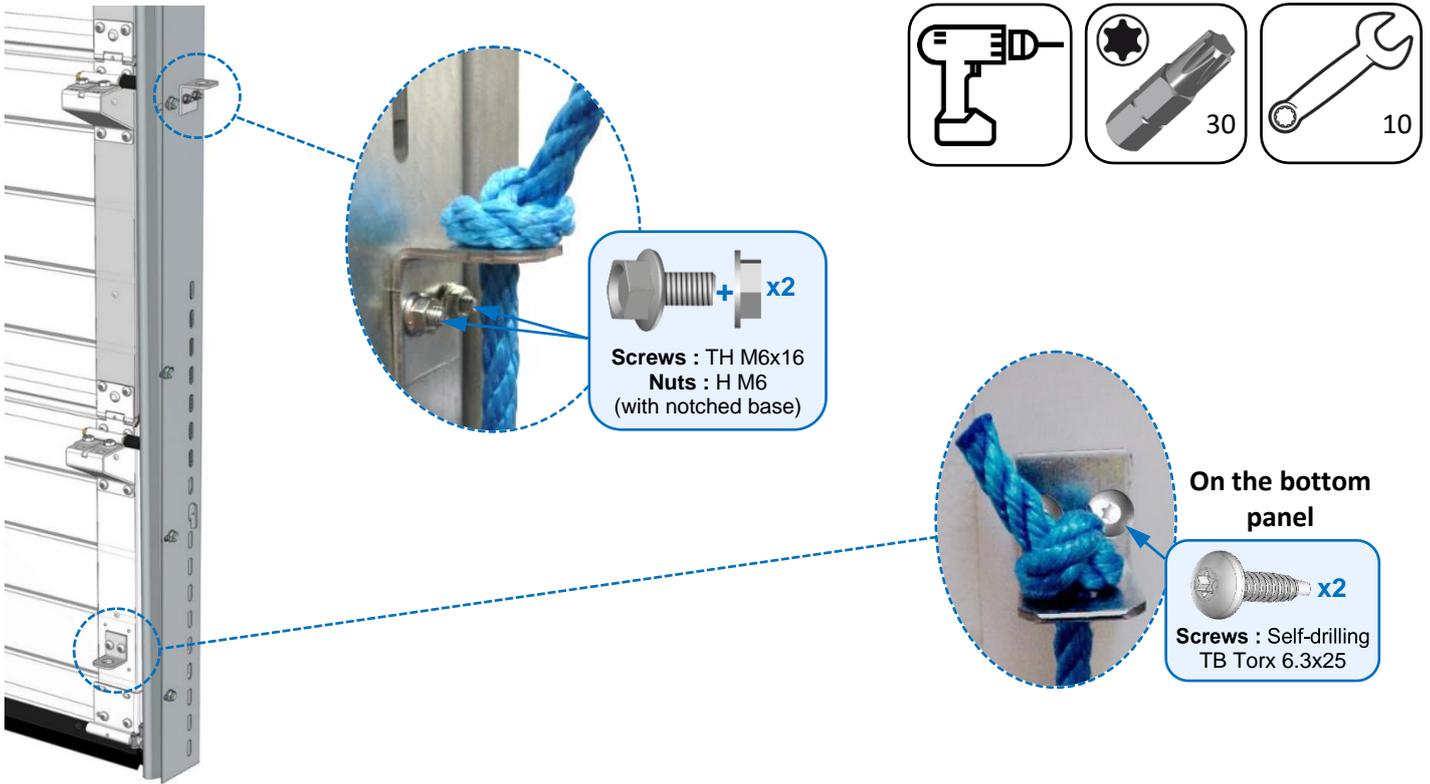
**IMPORTANT :**

**If you feel a rough spot, check the installation of the latches, rods and strike plates.**

**Fixing the cover plate :**



## Installing the pull cord (if manual door)



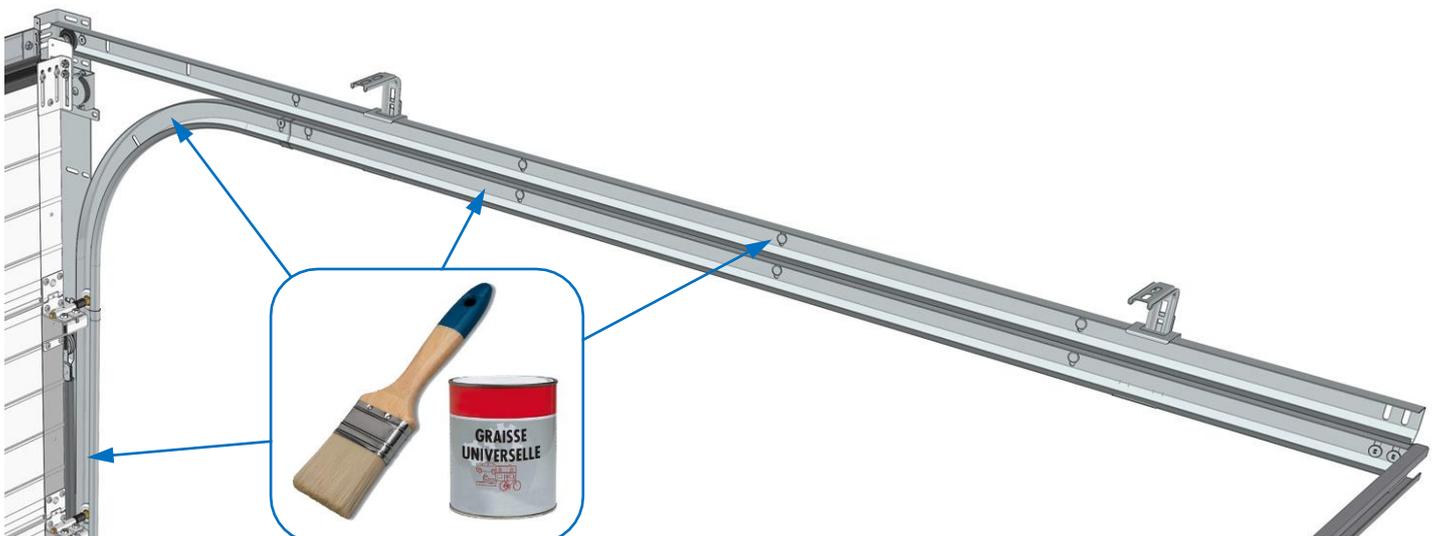
## Weather seal (optional)



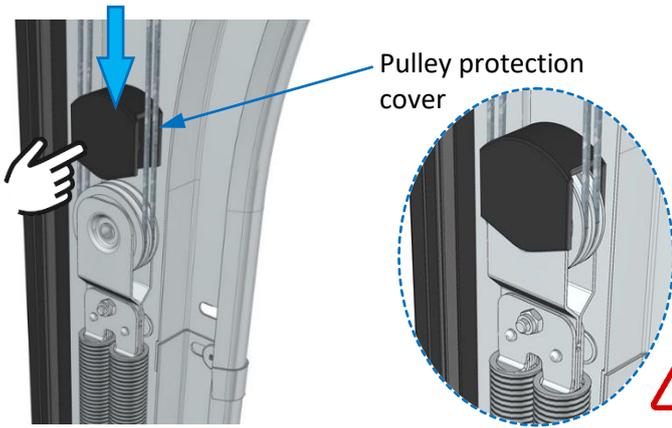
Weather seal section to be glued to the floor between the rails.

Refer to manual : Weather seal.

## Greasing the bottom of the rails



## Assembling the spring pulley covers



**Pulley covers are not supplied, if the rails are equipped with the protection cover option.**

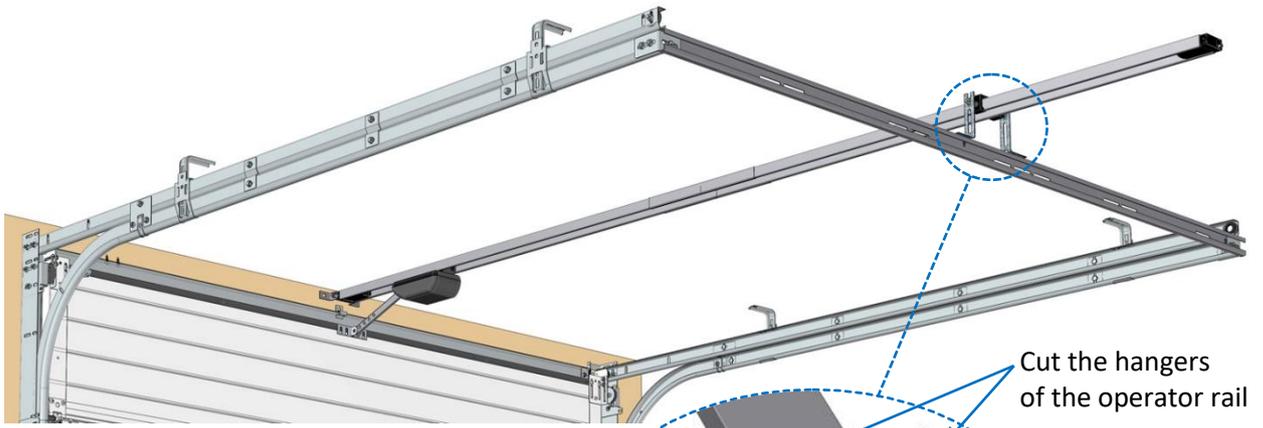
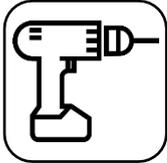
## Cable labels



**Remove the cable labels**



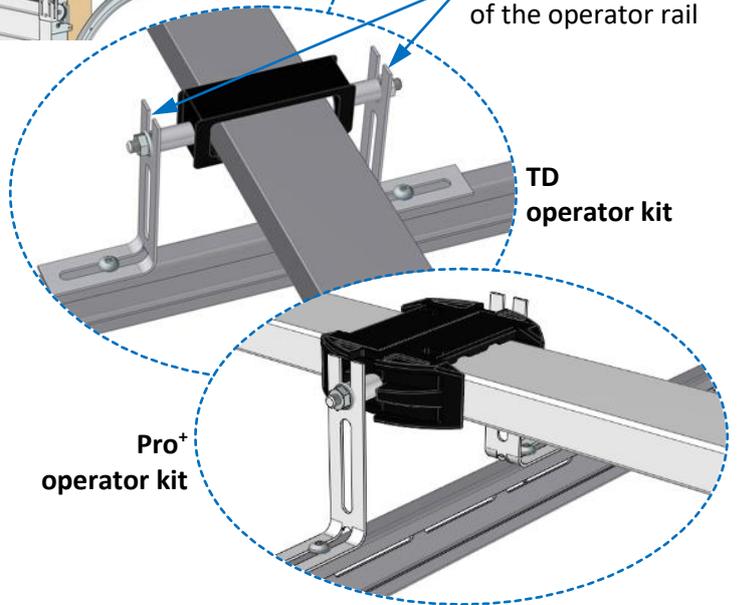
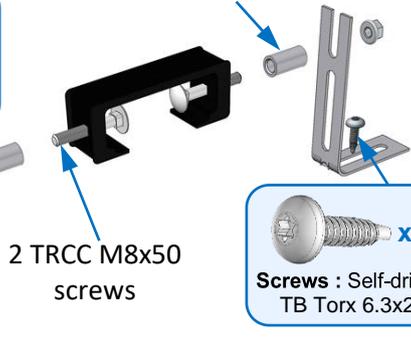
## Fixing the « SOMMER » operator to the back bar



Cut the hangers of the operator rail



2 spacers



TD operator kit

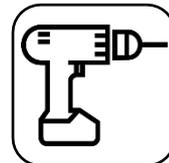
Pro+ operator kit



This fastening kit is compatible exclusively with all « SOMMER » operators.

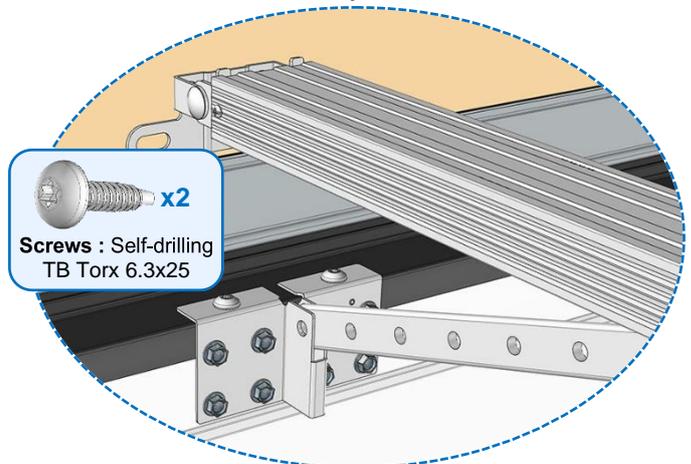
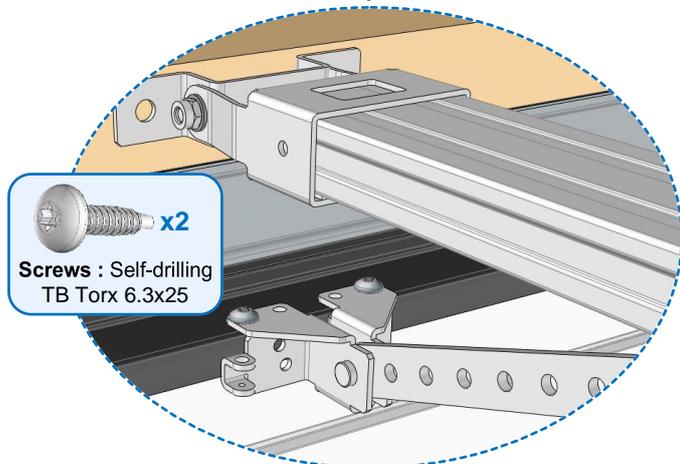
## Fixing the FAAC and CAMÉ operators on the shutter

**Securing the attachment**  
(screws supplied in repair kit)



**FAAC operator**

**CAMÉ operator**



**FAAC operator (ref. DOLPHIN)**

Min. OH	100 mm
Max. OH	720 mm
Opening	3,380 mm

**CAMÉ operator (ref. K01MV-005)**

Min. OH	125 mm
Max. OH	600 mm
Opening	3,230 mm

**CAMÉ operator (ref. V6000)**

Min. OH	125 mm
Max. OH	600 mm
Opening	3,175 mm