

# Manual No. 7081

07/24

# **INSTALLATION**

# Residential garage doors

# **Manual** or **Motorised**



RT200 (Torsion Springs)



(Document reserved for installers)



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# **Before installation**

#### Required equipment



Spirit level



Clamp



Laser level



Plumb bob



Tape measure



Utility knife



Electric screwdriver



Sockets



Cruciform bit







Perforator





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





Silicone sealant



Brush



Pot of grease



Grease spray



# Installation instruction



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 torsion 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 :

Compensating shaft: 300 daN

Rails: 40 daN

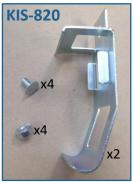


# Kit contents for each door configuration/option

#### Kits for MOTORISED and MANUAL doors

















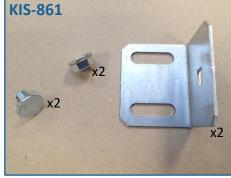


















#### **Kits for MOTORISED doors**

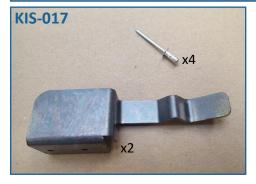




#### **Kits for MANUAL doors**



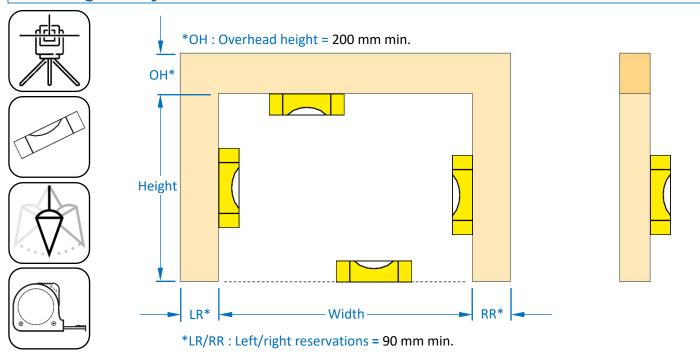




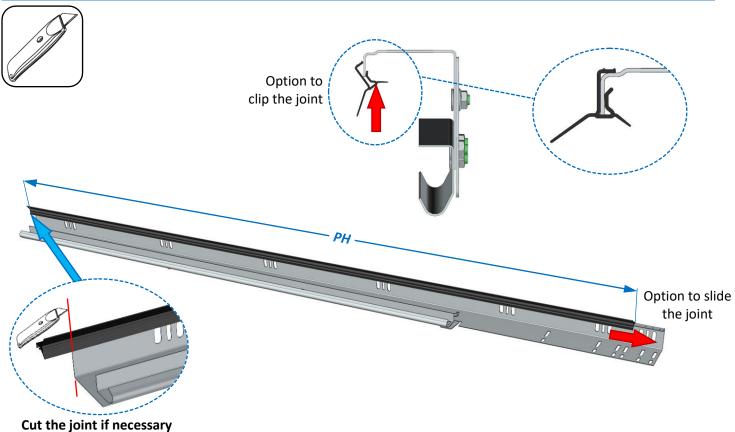


# Vertical rail installation

#### **Checking the bay**

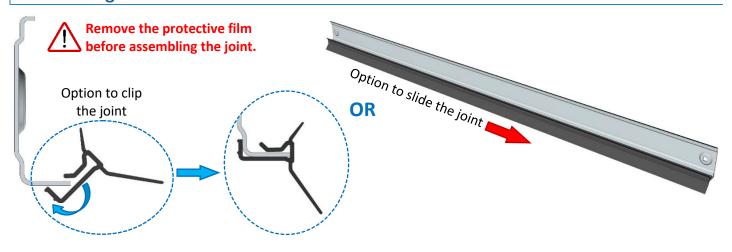


#### Assembling the vertical seals





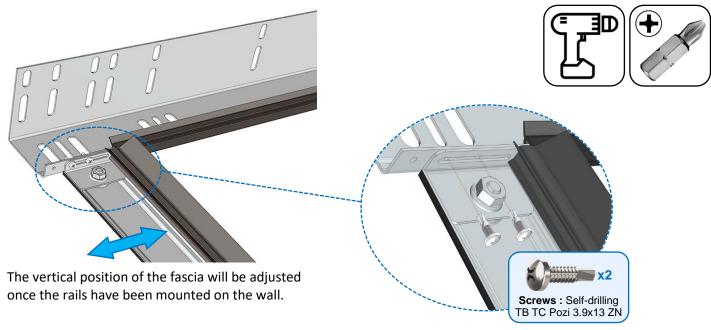
#### Assembling the fascia seal



#### Assembling the fascia



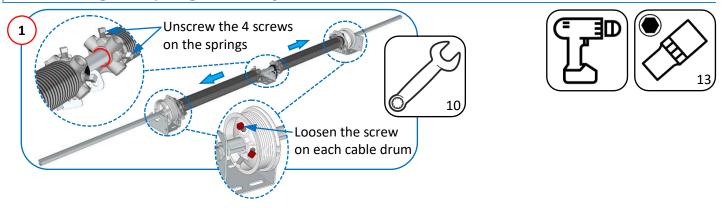
#### Fixing the fascia to the floor

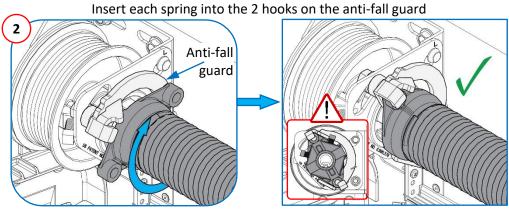


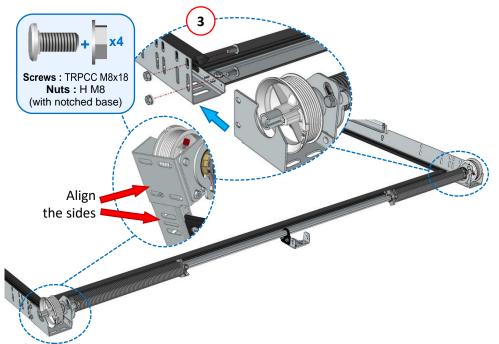
#### Repeat the process with the other vertical rail.



#### Assembling the spring assembly on the floor

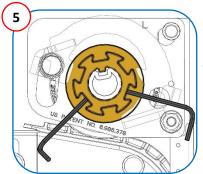








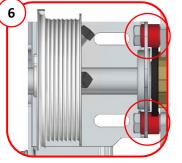
Align the end of the shaft on the bearing



Tighten the 2 screws on each anti-fall guard Tightening torque 15 Nm



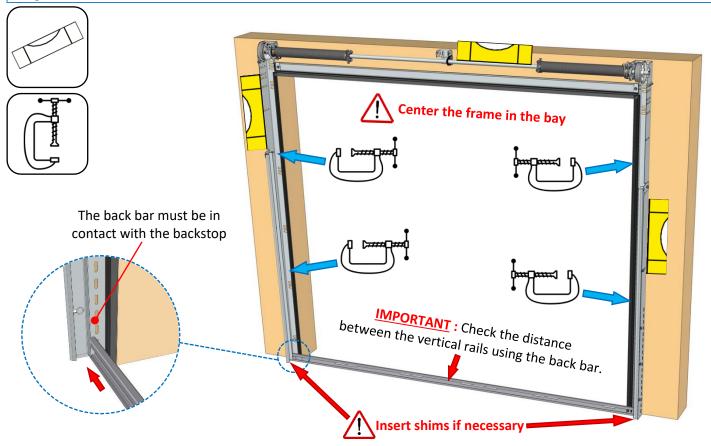
# **IMPORTANT**Grease the spacers





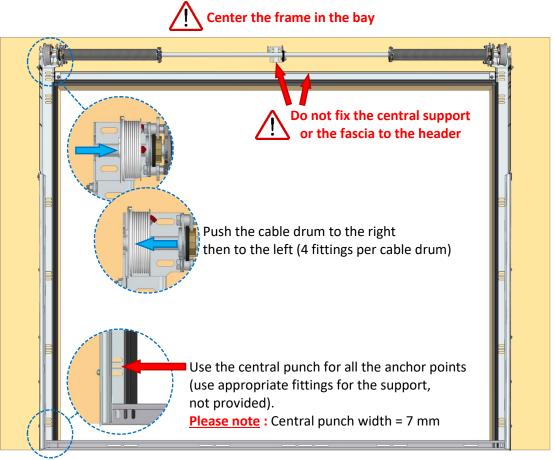


#### Layout of the frame



#### Fixing the vertical rails



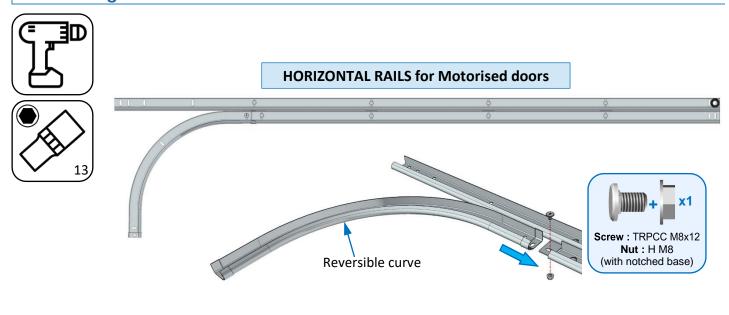


Repeat the process on the opposite side.



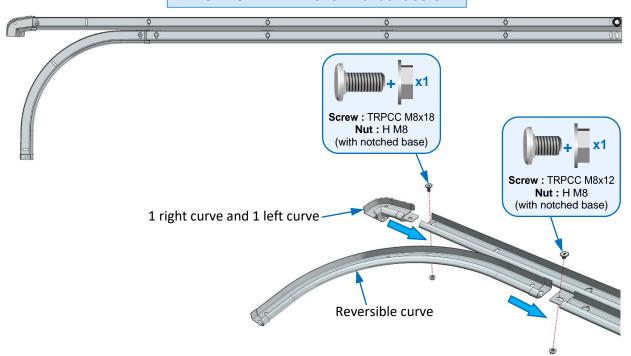
# Horizontal rail installation

#### **Assembling the curves**



#### OR

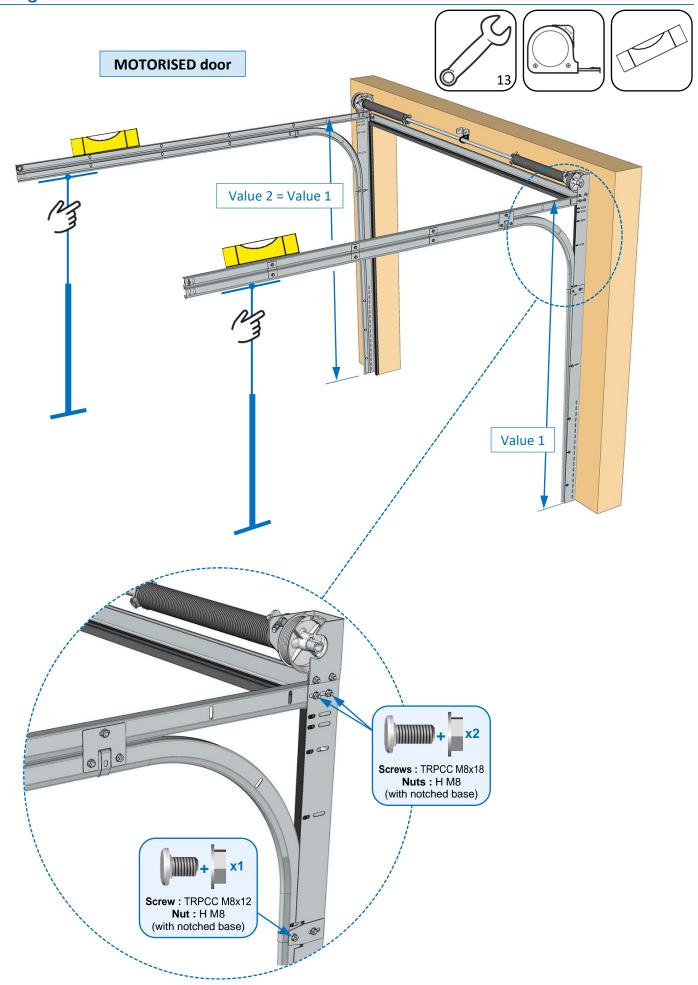
#### **HORIZONTAL RAILS for Manual doors**

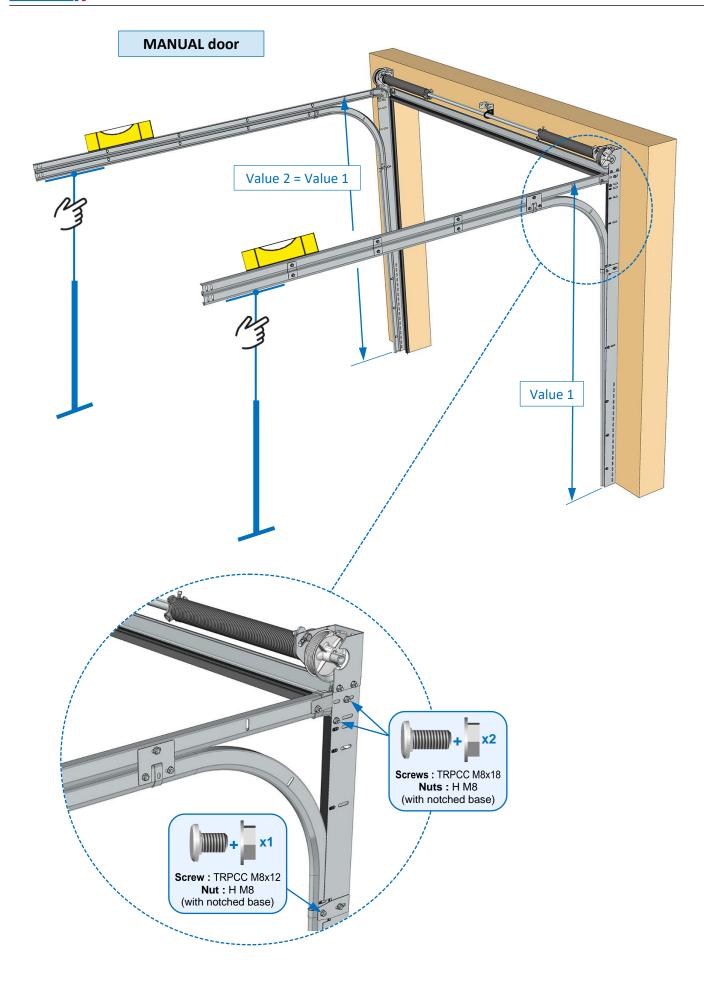


 $\prod$  To make adjustment simpler during assembly, do not fully tighten the screws with nuts.



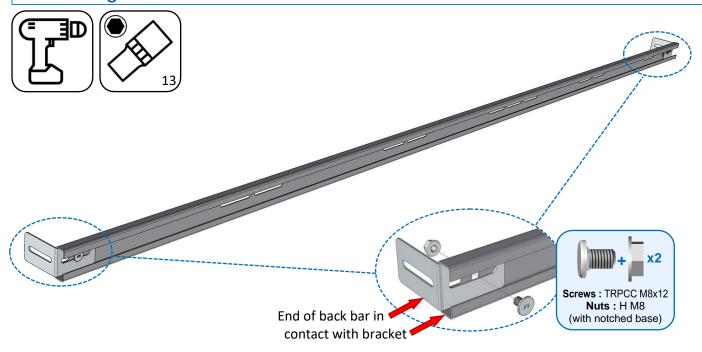
#### Fixing the horizontal rails



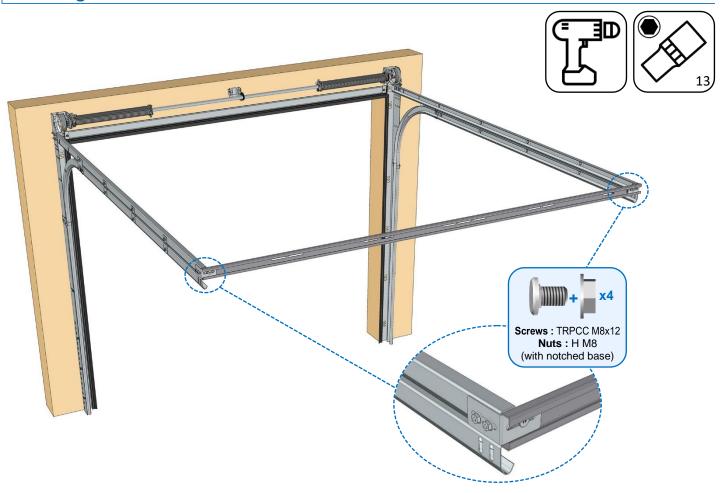




#### Assembling the back bar brackets

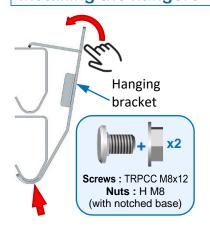


#### Installing the back bar





#### Installing the hangers



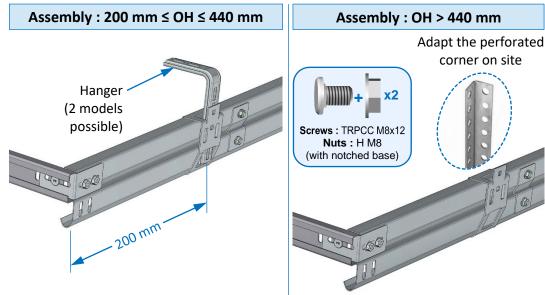
Do not fasten the hangers to the masonry. Do not fully tighten the screws with nuts.



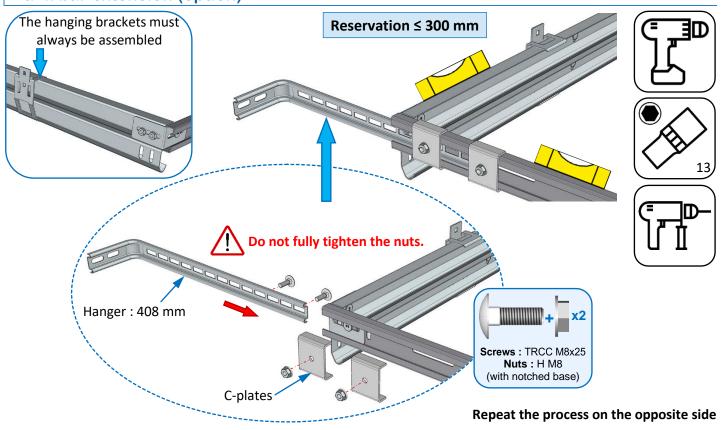


#### Adapt the number of hangers to the dimensions of the doors :

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



#### **Back bar extension (option)**

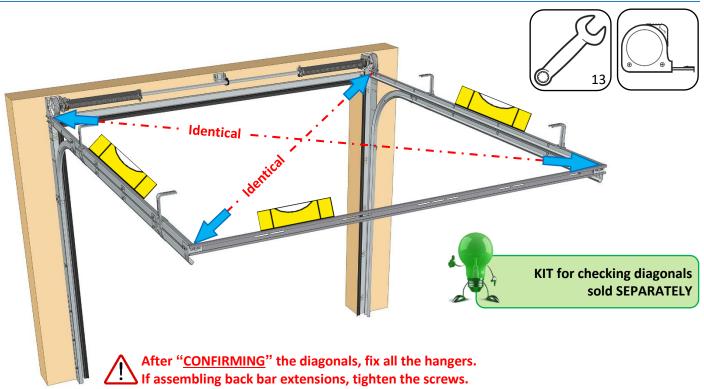


Repeat the process on the opposite side



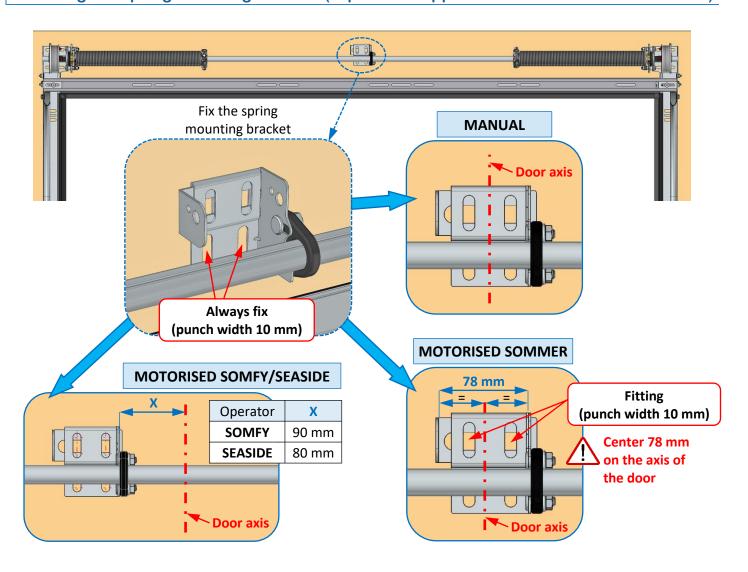
# 300 mm < Reservation ≤ 1,000 mm Screws: TRPCC M8x12 Nuts: H M8 (with notched base) Do not fully tighten the nuts.

#### **Checking the diagonals**



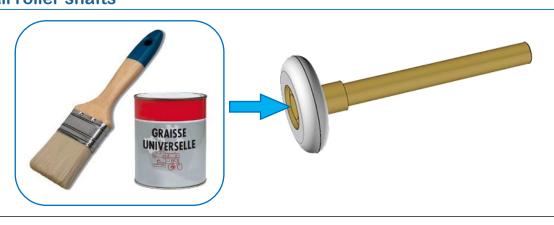


#### Installing the spring mounting bracket ("operator support" in "motorised door" version)



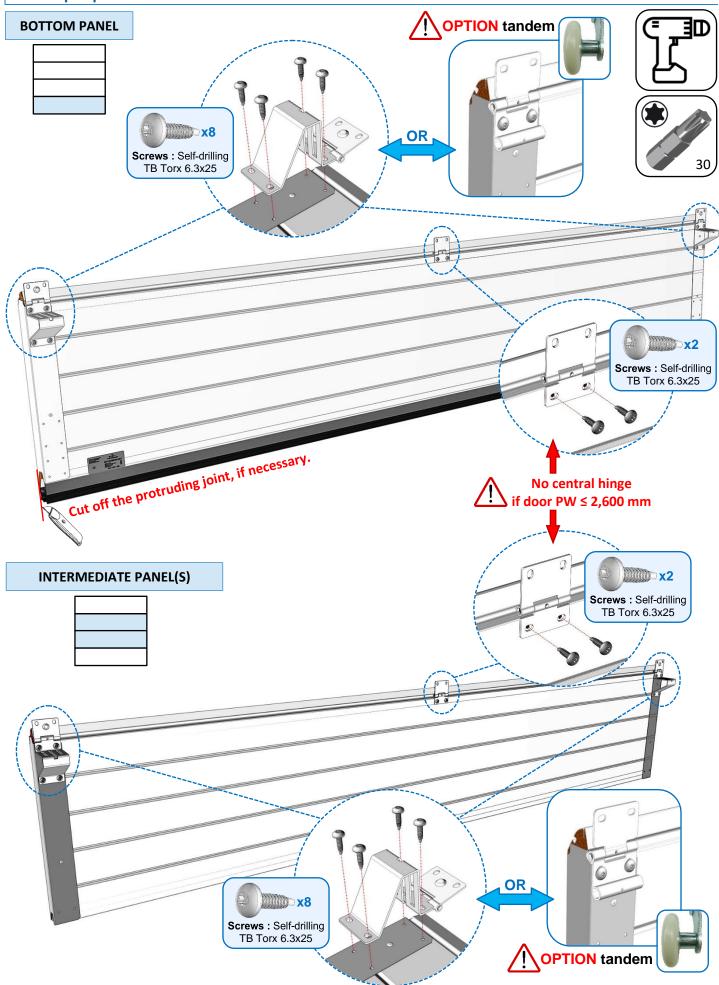
# **Shutter assembly**

#### Grease all roller shafts





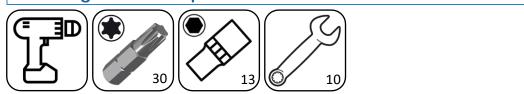
#### **Panel preparation**

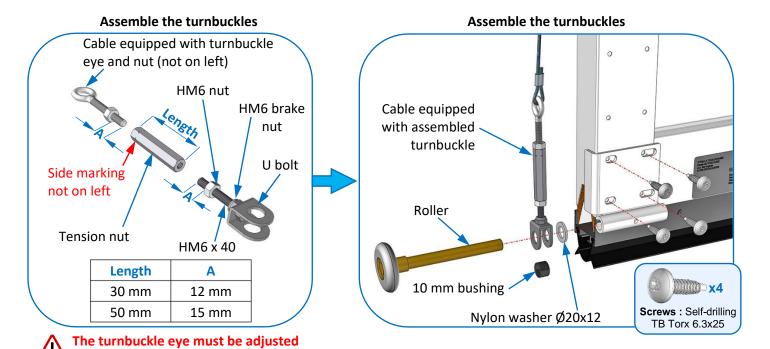




#### Installing the bottom panel

in an identical manner for each cable.





OPTION tandem

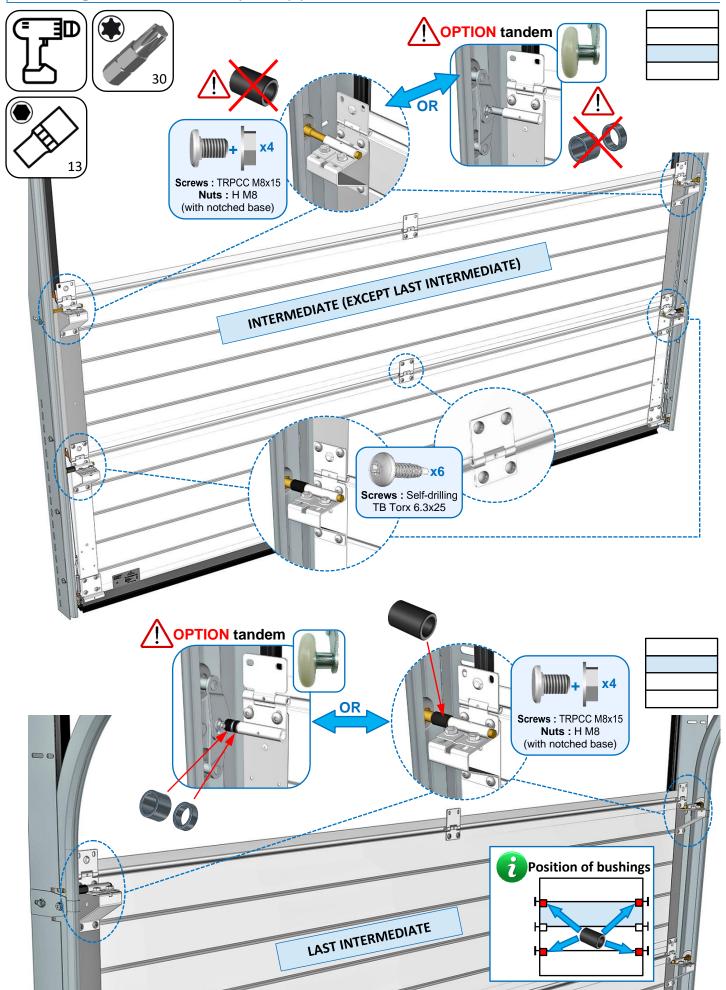
Screws: TRPCC M8x15

Nuts: H M8
(with notched base)

Insert shims if necessary.

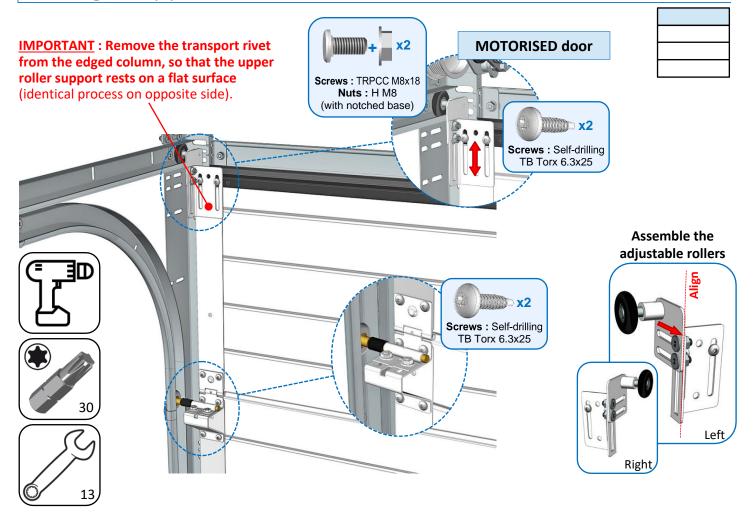


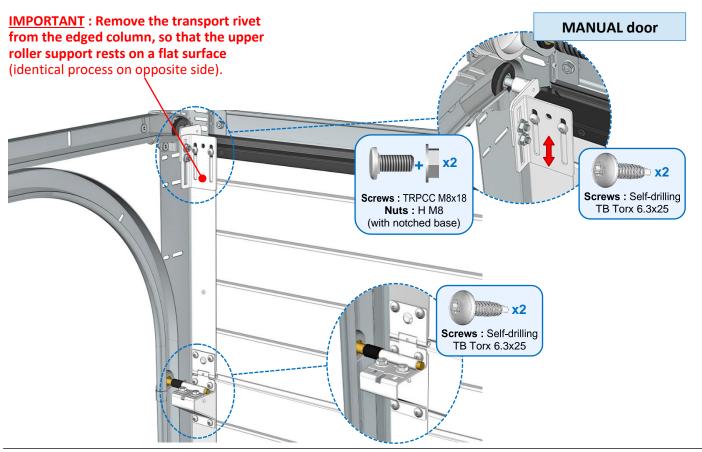
#### Installing the intermediate panel(s)





#### Installing the top panel

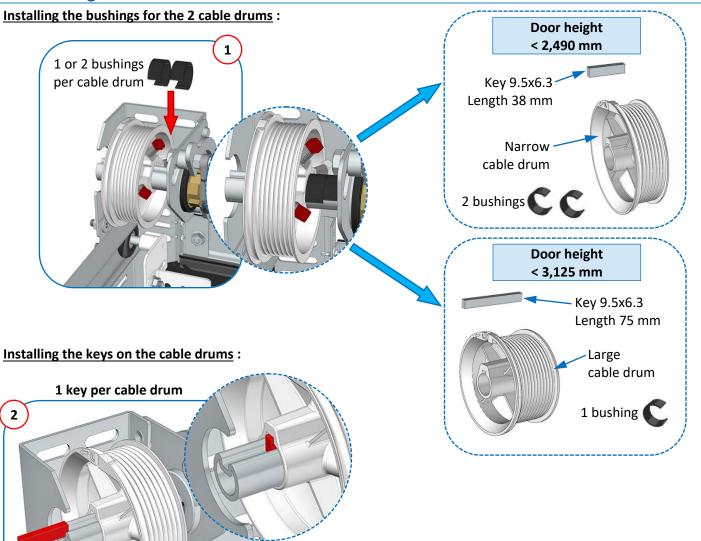




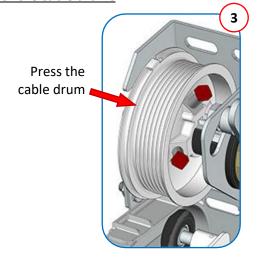


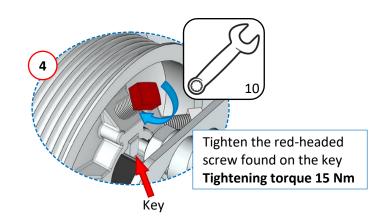
# **Cable installation**

#### Positioning the cable drums



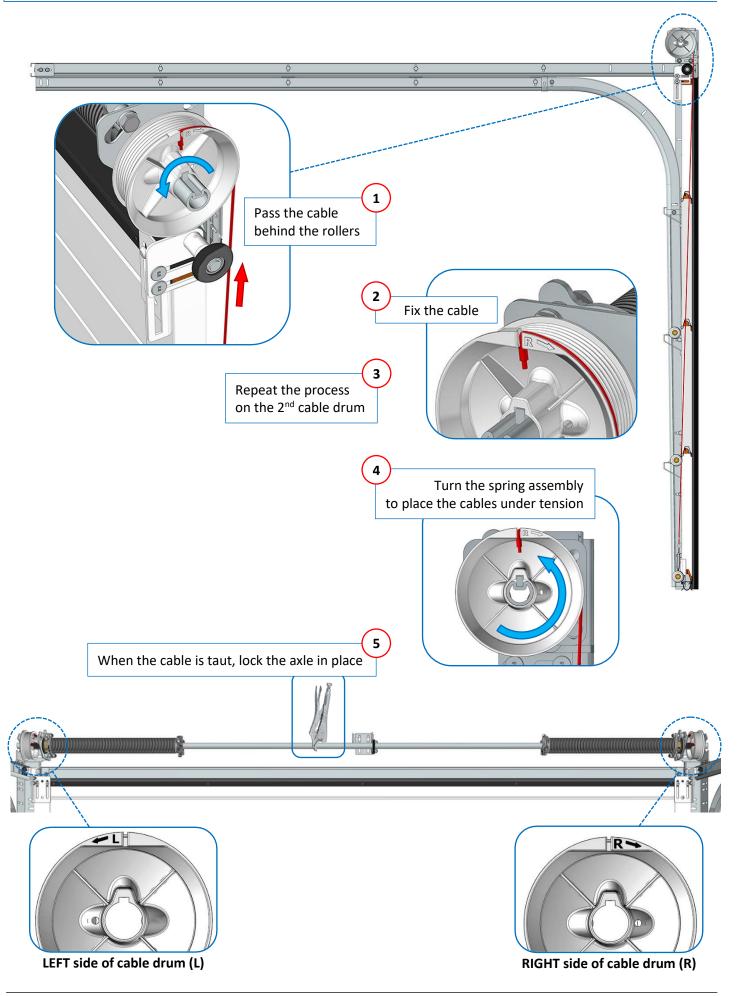
#### **Block the cable drums:**





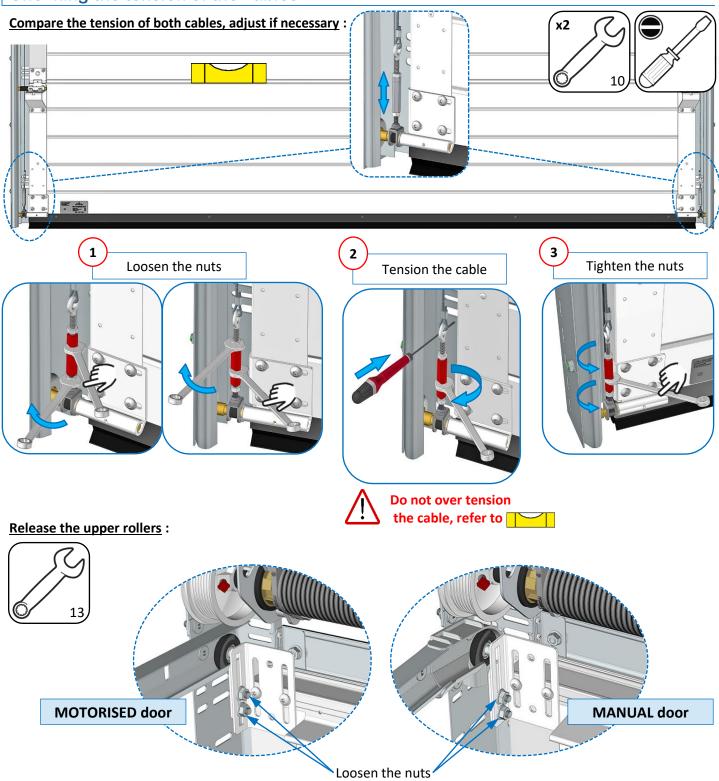


#### Routing the cables around the cable drums





#### Checking the tension of the cables



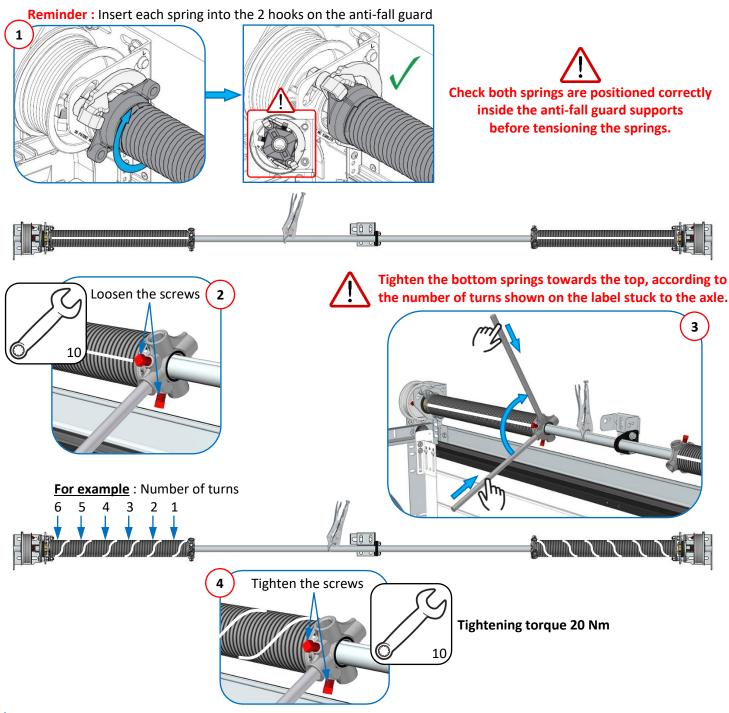
#### Remove the shims and lower the shutter:





# **Spring adjustments**

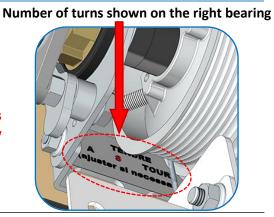
#### **Spring tension**



#### Table for number of spring tension turns

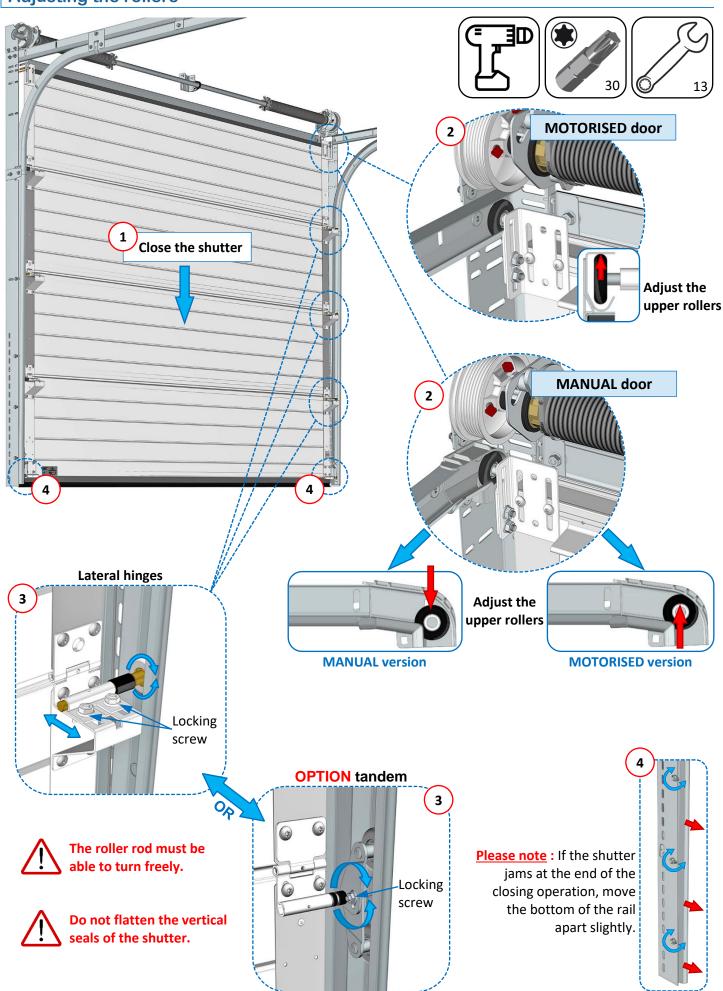
Passage height (mm)	Number of tension turns
≤ 1,820	6
From 1,821 to 1,998	6.5
From 1,999 to 2,209	7
From 2,210 to 2,347	7.5
From 2,348 to 2,519	8
From 2,520 to 2,714	8.5
From 2,715 to 2,885	9
From 2,886 to 3,000	9.5

Adjust the settings if necessary



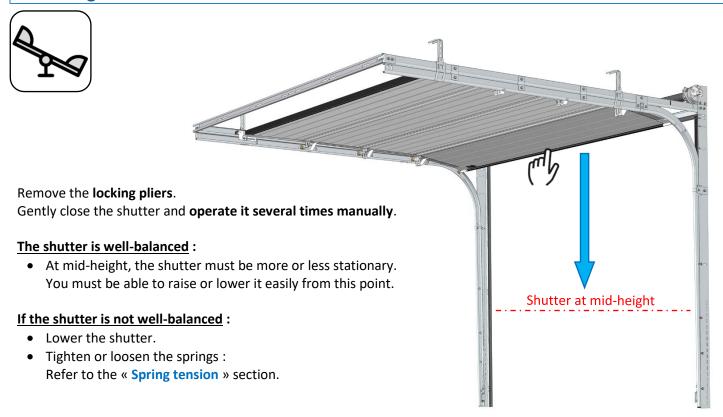


#### Adjusting the rollers



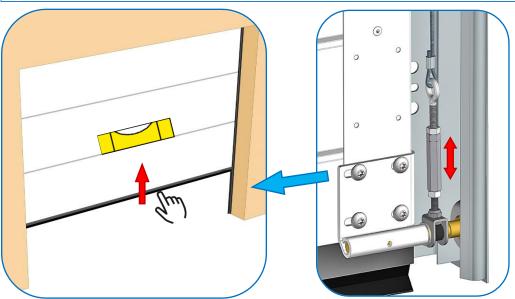


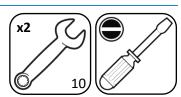
#### Checking the balance



# **Finishes**

#### Leveling the shutter



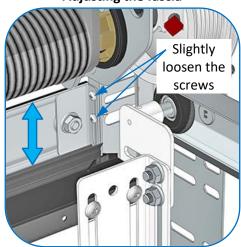


To adjust the tensioner, refer to the « Checking the tension of the cables » section.



#### Adjusting and fixing the fascia

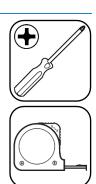
# Adjusting the fascia



Repeat the process on the opposite side

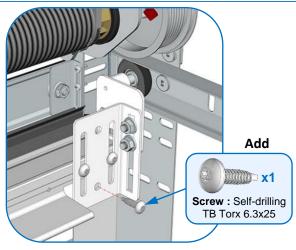
# Fixing the fascia Distribute the supplied clips

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





#### Fixing the upper roller supports

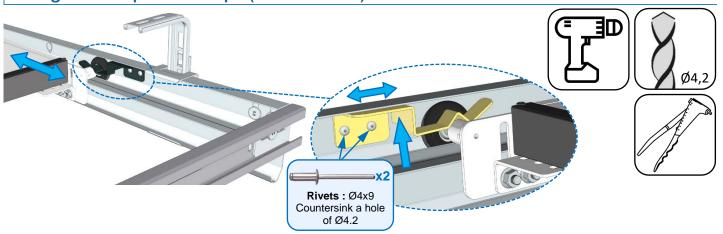






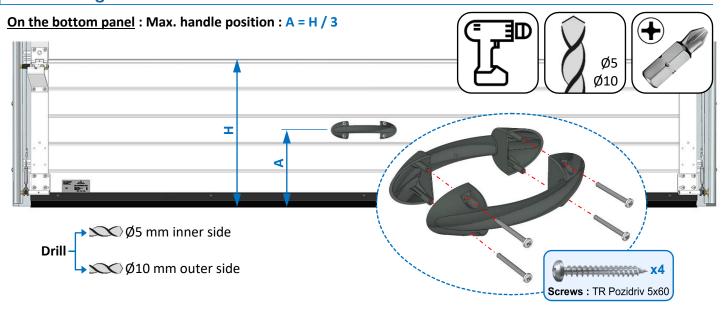
Repeat the process on the opposite side.

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

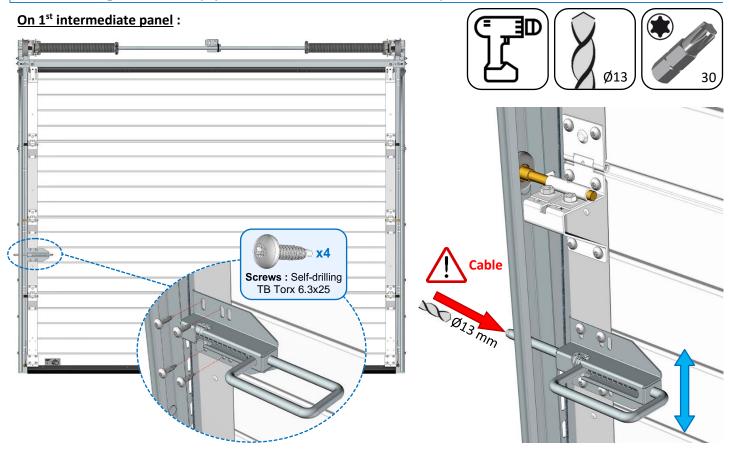




#### Assembling the handle



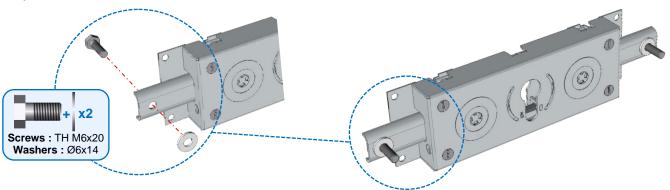
#### Assembling the latch (optional on motorised doors)



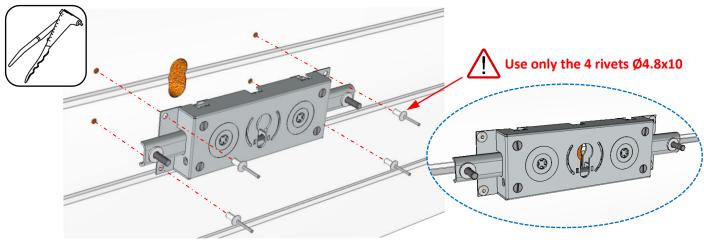


#### Installing the lock (optional on motorised and manual doors)

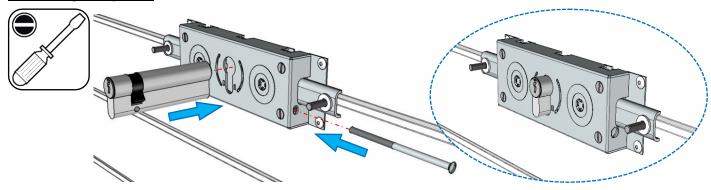
#### Prepare the lock:



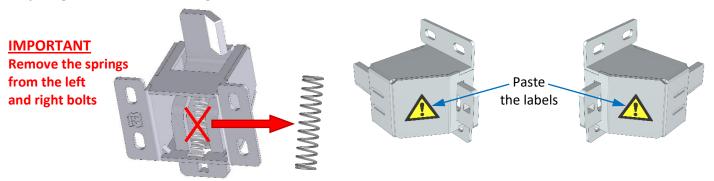
#### Fixing the lock:



#### Assembling the cylinder:



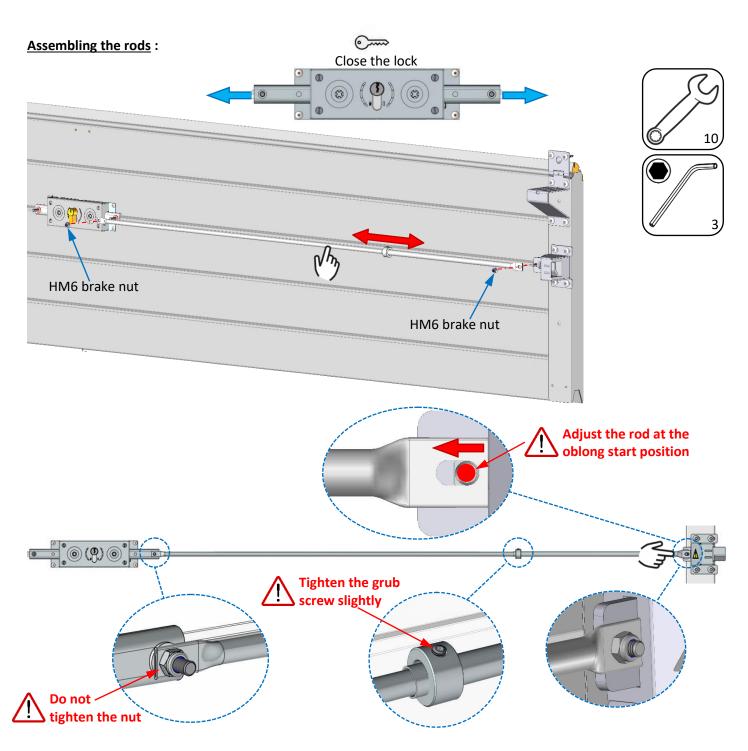
#### Preparing the latches (left and right):





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

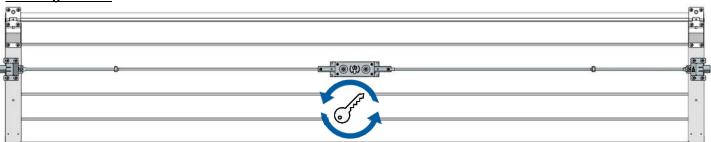




Repeat the procedure for the second rod.



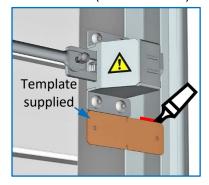
#### **Checking the lock:**



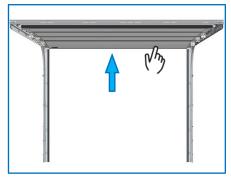
If necessary, return to the « Assembling the rods » section.

#### Positioning the strike plates:

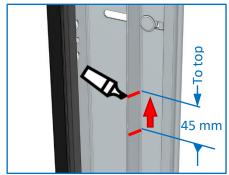
1- Mark out (on the 2 latches)



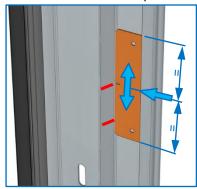
2- Open the shutter



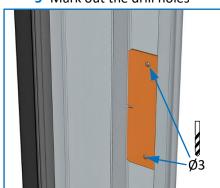
3- Offset the marking



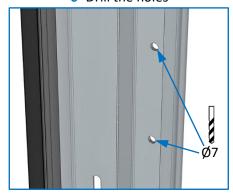
4- Position the template



5- Mark out the drill holes

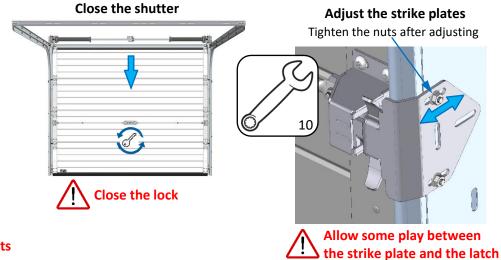


6- Drill the holes



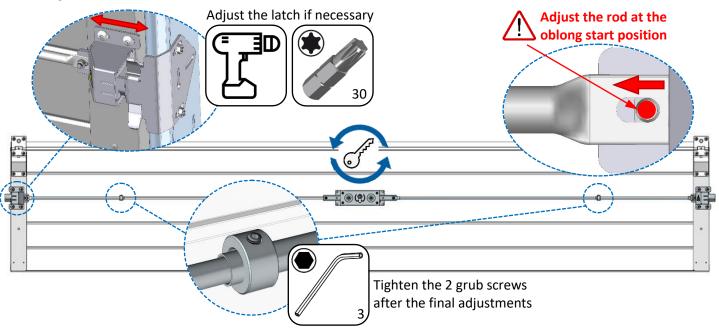
#### Fixing the strike plates:



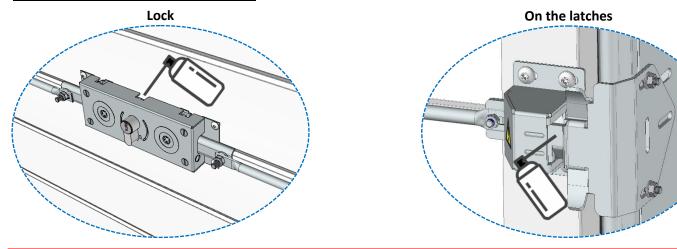




#### **Checking the lock:**



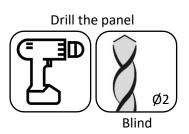
#### Lightly grease the lock and the 2 latches:



#### **IMPORTANT**:

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

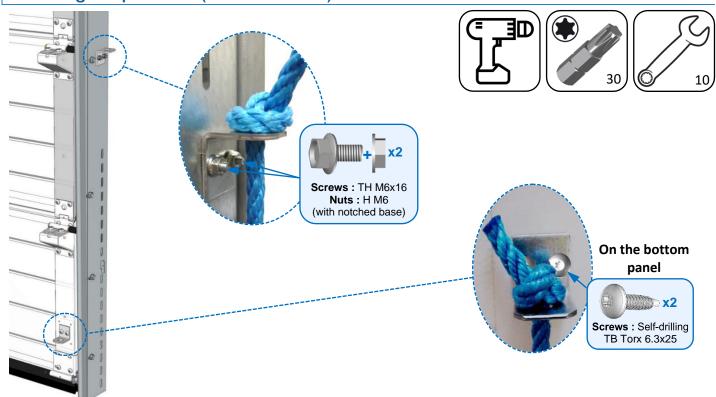
#### Fixing the cover plate:







#### Installing the pull cord (if manual door)



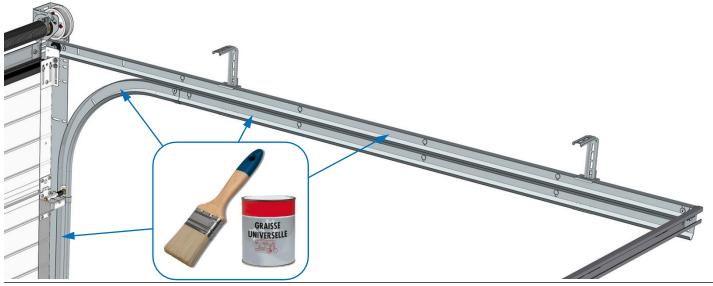
#### Weather seal (optional)



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

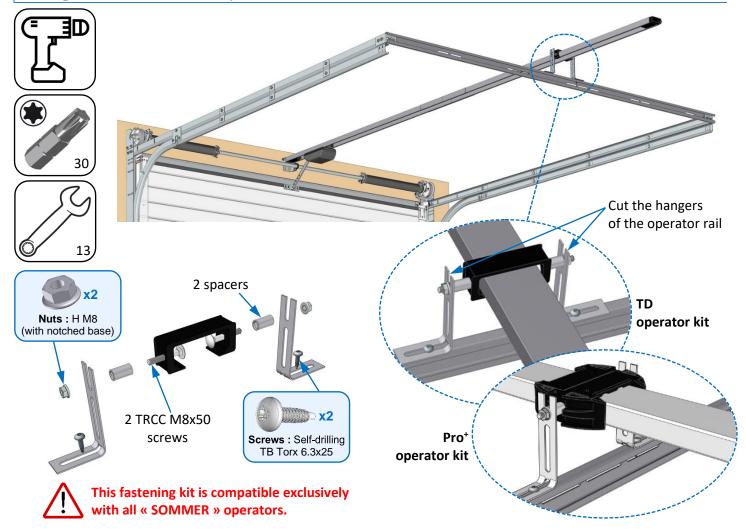
Refer to manual: Weather seal.

#### Greasing the bottom of the rails





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



# In case of incorrect manual functioning

- Check that the vertical rails are plumb and that there is a **56 mm** gap between the rails and the edge of the panel.
- Check that the bottoms of the vertical rails are at the same horizontal level.
- Check that the horizontal rails are aligned in relation to the vertical rails and that there is a **56 mm** gap between the rails and the edge of the panel.
- Check that the horizontal rails are perfectly aligned with each other, and that they are perpendicular to the header and level.
- With the door raised to roughly 1.00 m height, check that the shutter is perfectly level.
- Check that the lateral seals have not been compressed and that the sealing of the shutter is even.

#### **IMPORTANT:**

If the shutter is incorrectly adjusted and is flattened too tightly against the lateral seals, the door will not function correctly.

 Adjust the compensation setting by 1/4 turn on the springs. This will enable correct manual operation of the shutter.

#### Please note:

Difference in tolerated tension between the springs = 1/2 turn.

After being operated several hundreds of times, it may be necessary to retighten the springs slightly.



If one or more of the anti-fall guards is blocked, contact a trained installer.