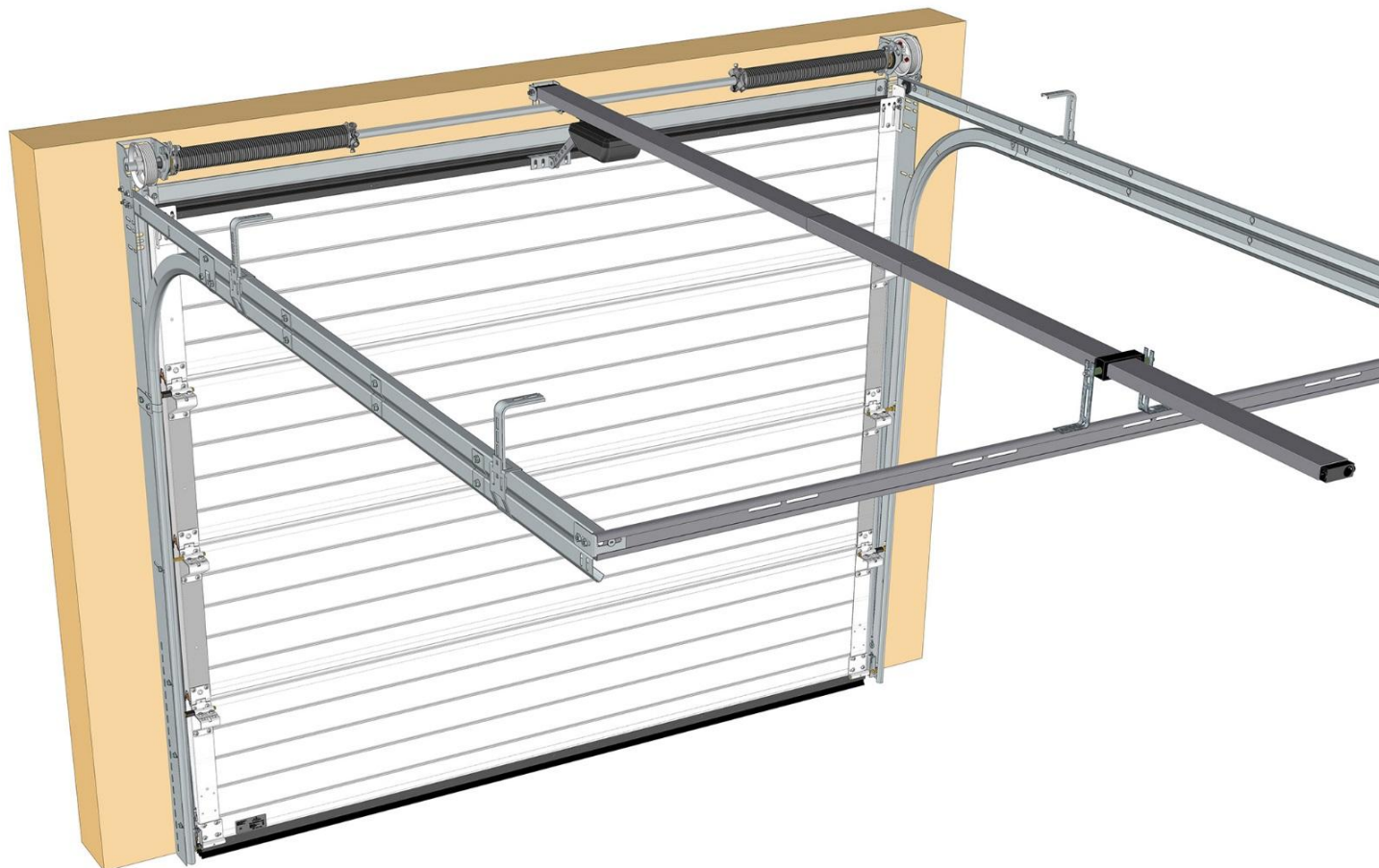


INSTALLATION

Residential garage door Manual or Motorized



RT200
(Torsion Springs)



(Document reserved for installers)

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Installation instructions



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 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.
Indeed, non-authorized persons such as children, 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

Panels mounting screws = 12 Nm

Min. working load per attachment point:

Compensating shaft = 300 daN

Rails = 40 daN

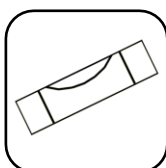
Before installation

Required equipment

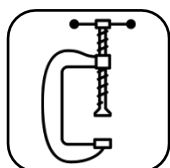


Laser level

or



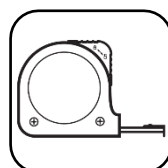
Spirit level



Clamps



Plumb bob



Tape measure



Pencil



Ladder



Utility knife



Grinder



Locking
pliers



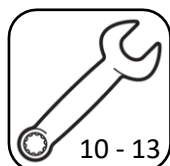
Hammer



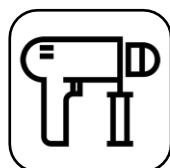
PZ1 - 2
Pozidriv
screwdriver



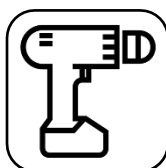
Allen key



Flat keys



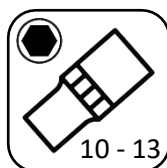
Perforator



Electric
screwdriver



Steel drill bits
Ø5-10-13



Sockets



PZ1 - 2
Pozidriv bits



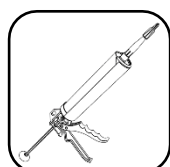
Torx bit



Brush



Pot of grease

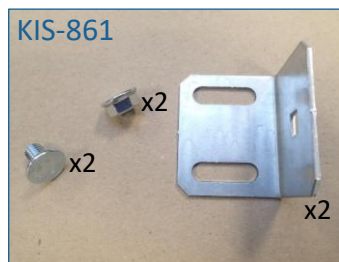


Silicone seal

Kit contents for each door configuration/option

Kits and accessories for MOTORIZED and MANUAL door

Kits for the guidance system:



Accessories for the guidance system:



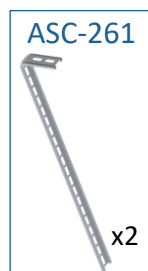
Length 176 mm



Length 350 mm



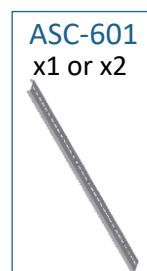
Length 408 mm



Length 611 mm



x2 or x4



x1 or x2



x2 or x4

Kits for the balancing line:



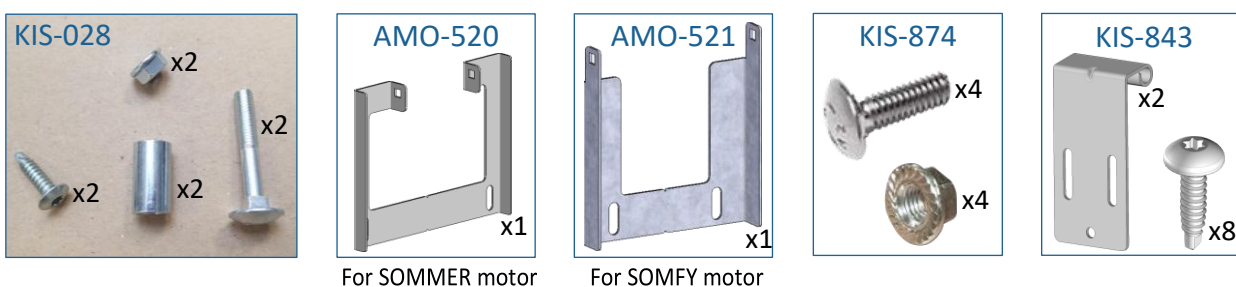
Kits for the door:



Accessories for the door:



Kits for MOTORIZED door depending on configurations

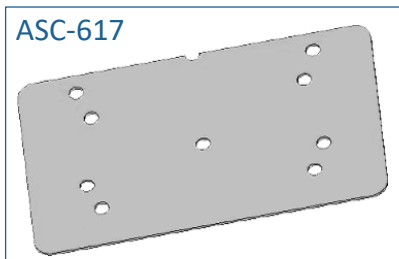


Kits for MANUAL door

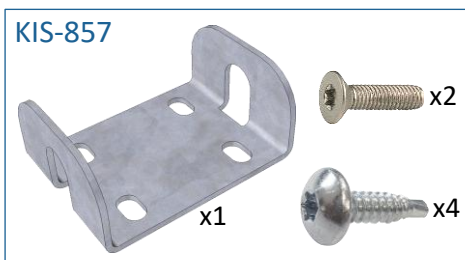


Optional on motorized door

Also supplied with the motor lock release option



Kits and accessories for MANUAL door (1-point lock option) - Manual 9214



OR

With cassette door only



Different number

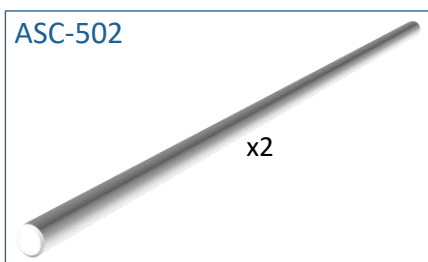


Same number



With cassette door only

Tool supplied



Tension bar

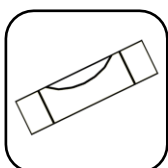
Installation of the guidance system

Necessary tools

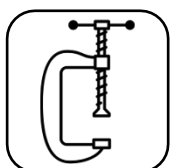


Laser level

or



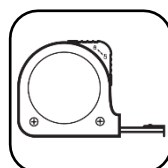
Spirit level



Clamps



Plumb bob



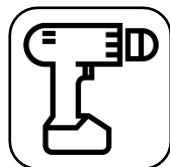
Tape measure



Ladder



Utility knife



Electric
screwdriver



Socket
13



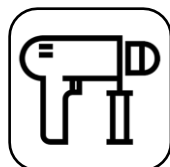
Pozidriv bit
PZ1



Torx bit
30



Flat key
13



Perforator



Grinder

Necessary kits and accessories



Standard:

KIS-826, KIS-824, KIS-880, KIS-839, KIS-865, KIS-822,
ASC-221 or ASC-222 or ASC-223 or ASC-261 or PRA-015.



Manual door:

KIS-805.

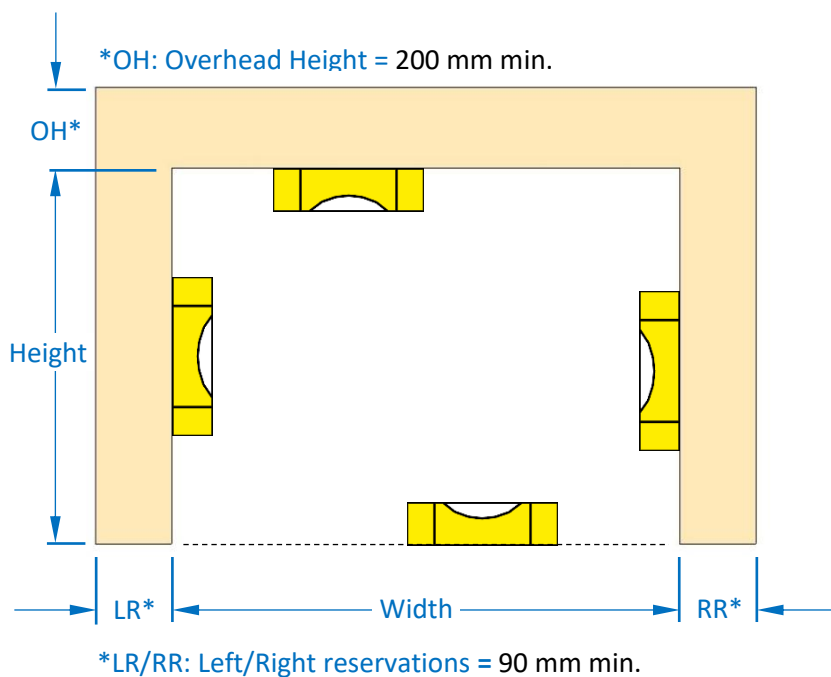
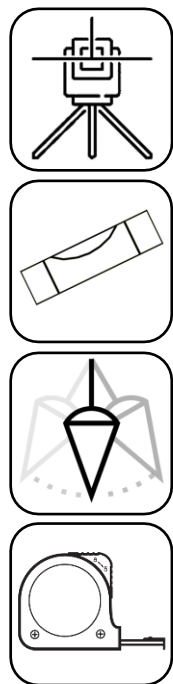


Option extension of back bar:

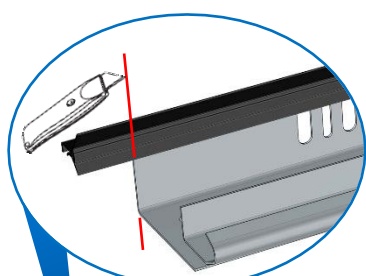
KIS-829 or ASC-153, ASC-601, KIS-861.

Vertical rail installation

Checking the bay



As standard: mounting of vertical seals

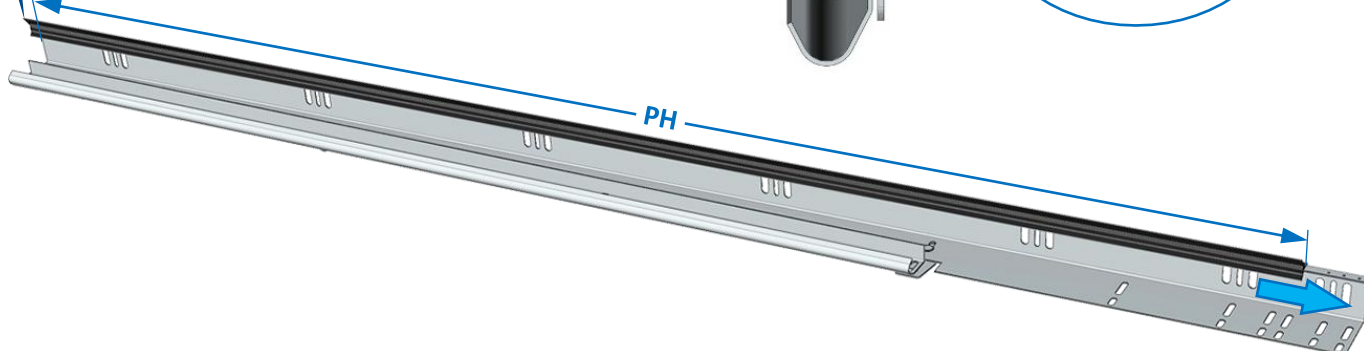
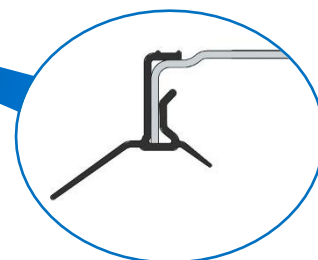
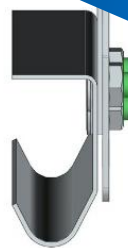


Cut the seal,
if necessary



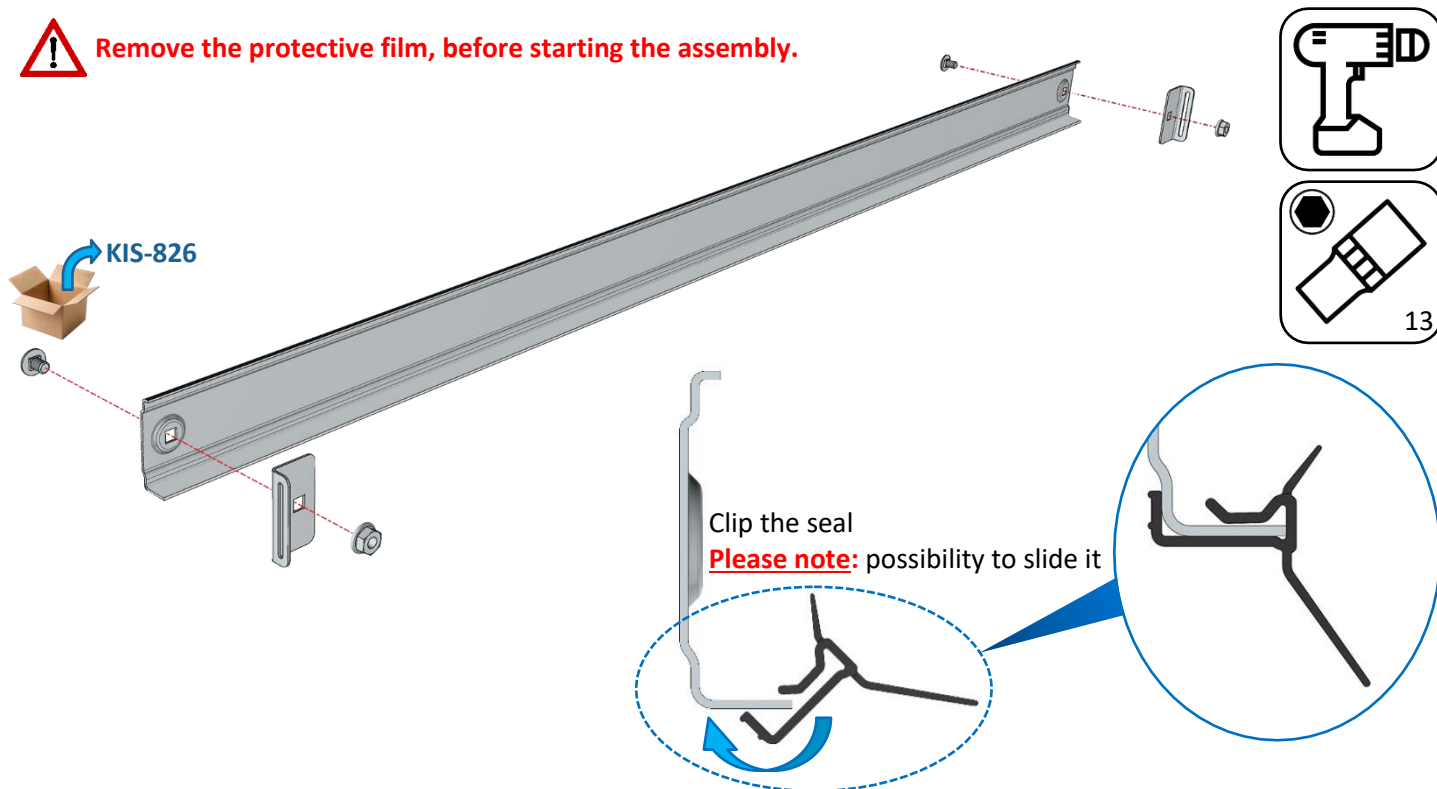
Clip the seal

Please note: Possibility to slide it

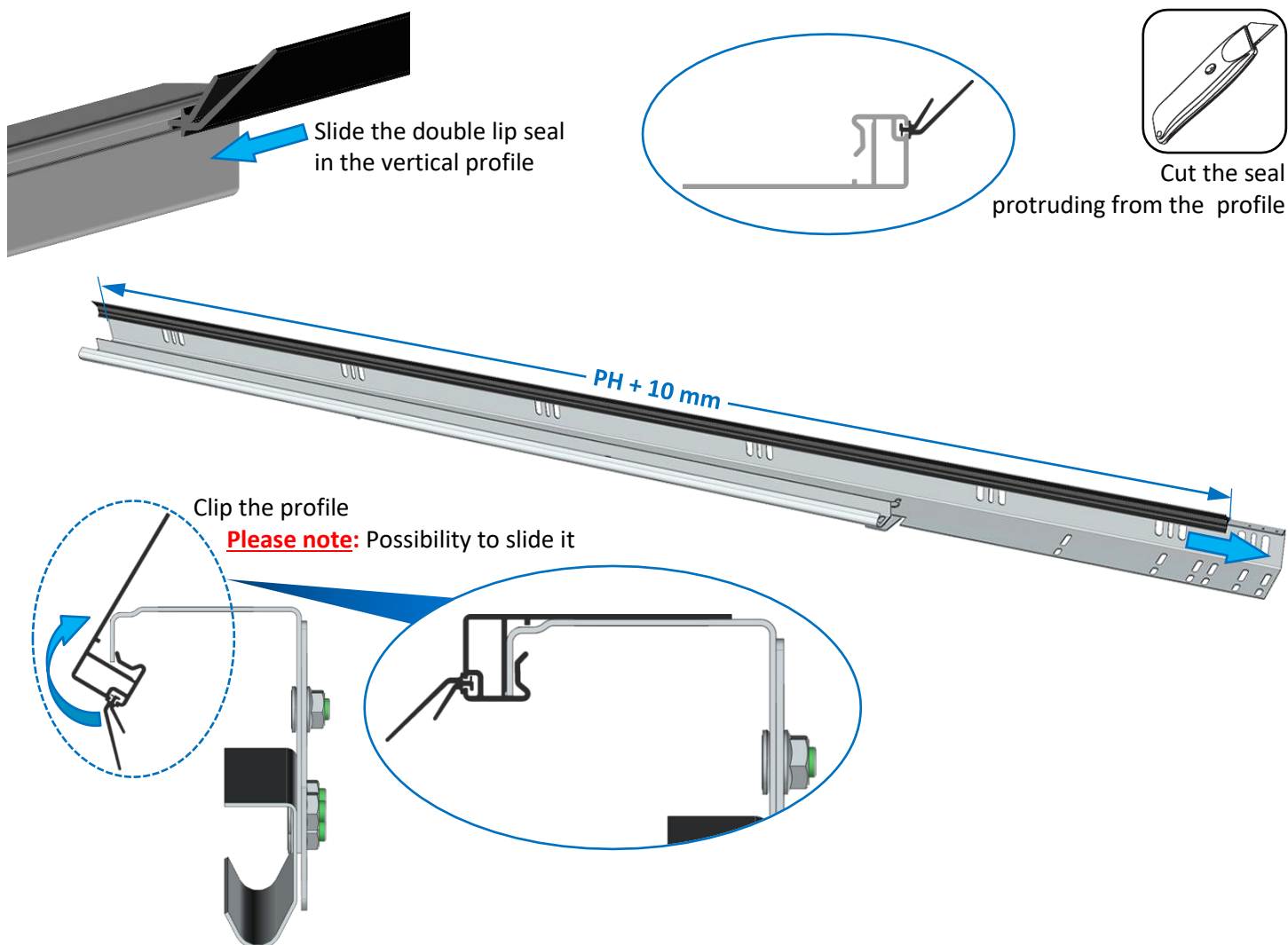


As standard: mounting the brackets and the seal on the cross-member

Remove the protective film, before starting the assembly.

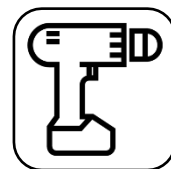
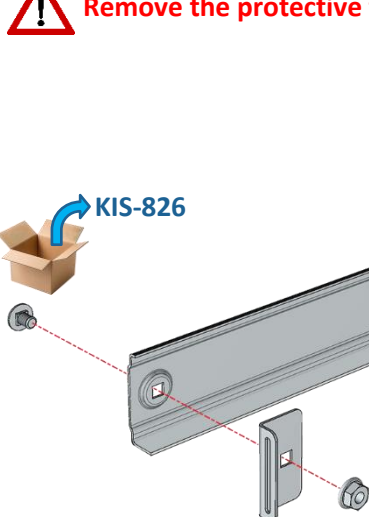


Thermal insulation OPTION: mounting of vertical seals

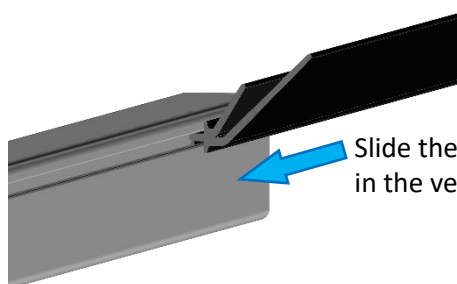


Thermal insulation OPTION: mounting the brackets and the seal on the cross-member

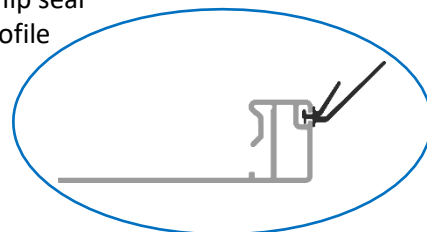
Remove the protective film, before starting the assembly.



Cut the seal protruding from the profile

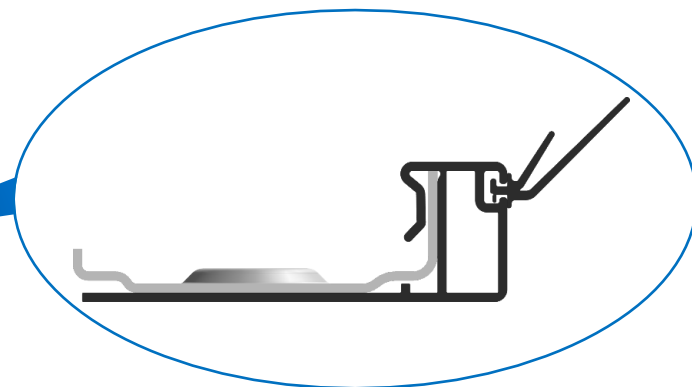
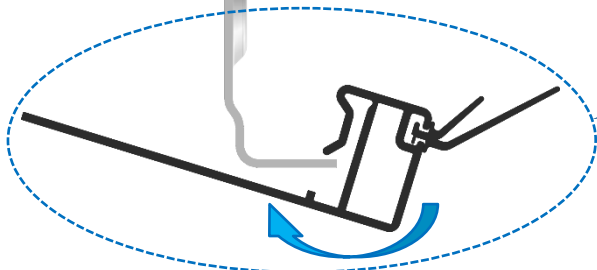


Slide the double lip seal in the vertical profile

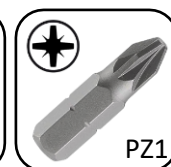
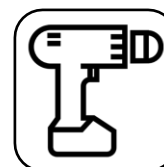
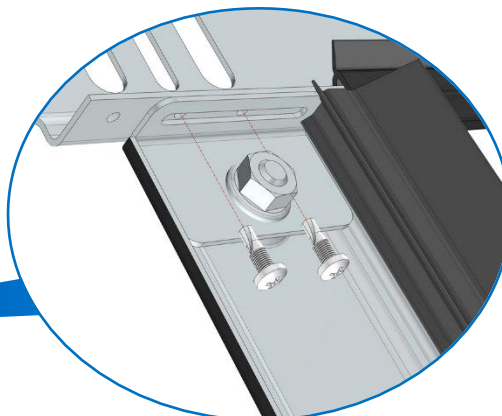
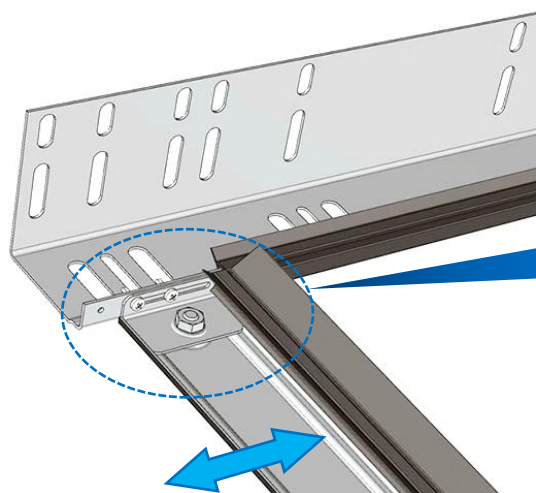


Clip the profile

Please note: possibility to slide it



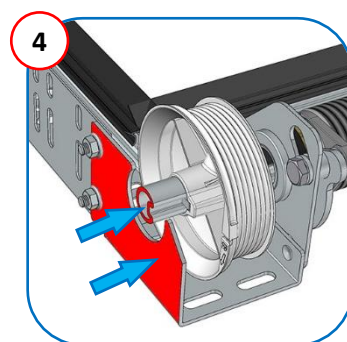
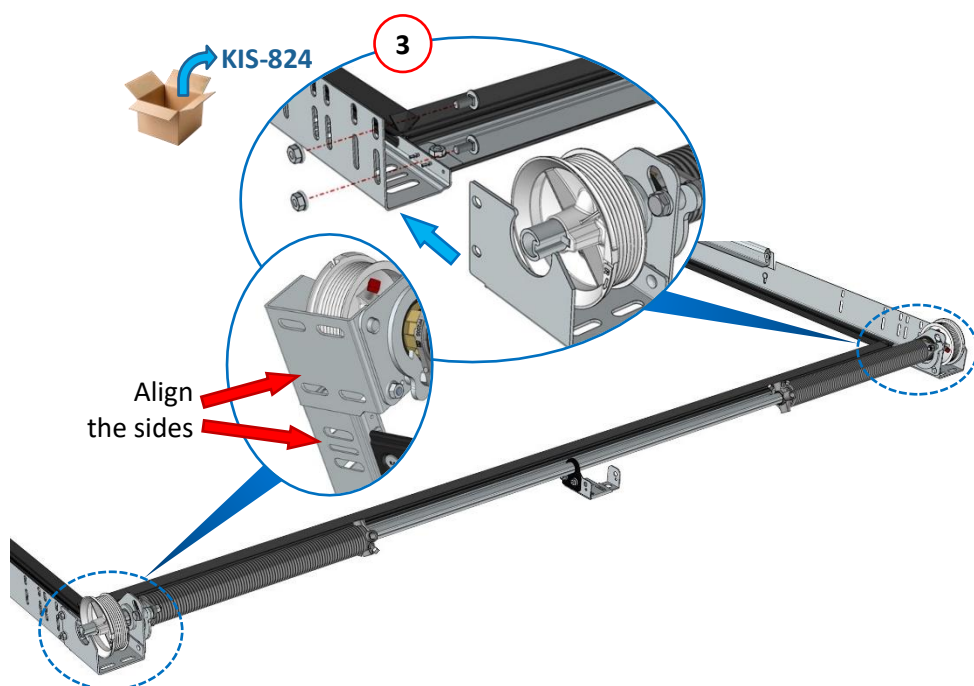
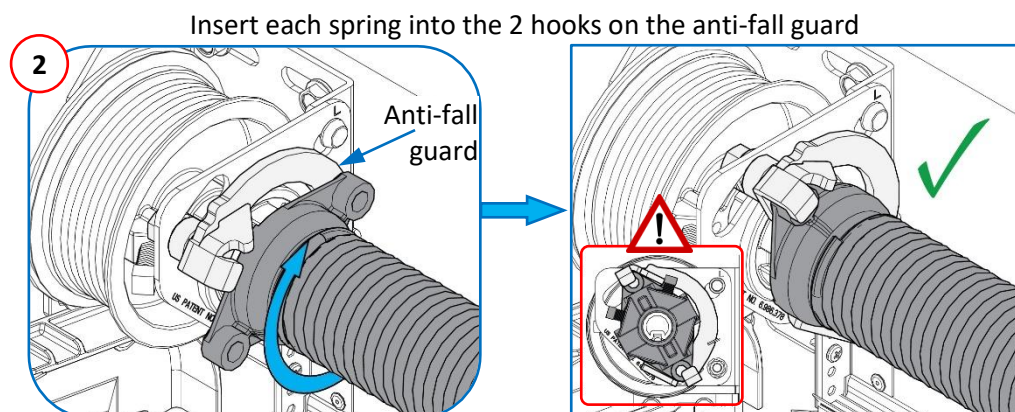
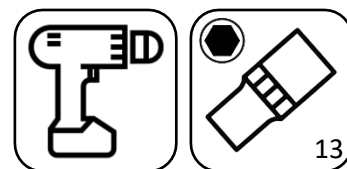
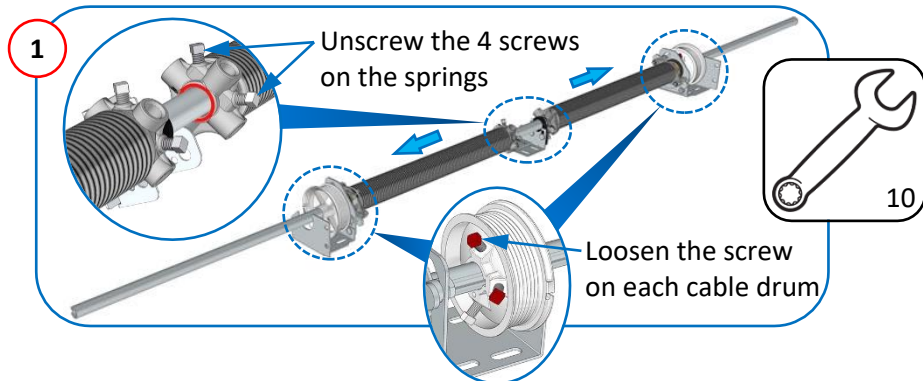
Fixing of the cross-member to the floor



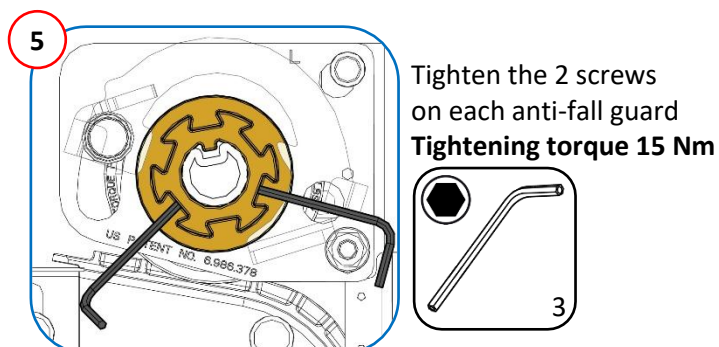
The vertical position of the cross-member will be adjusted once the rails have been mounted on the wall

Repeat the process with the other vertical rail

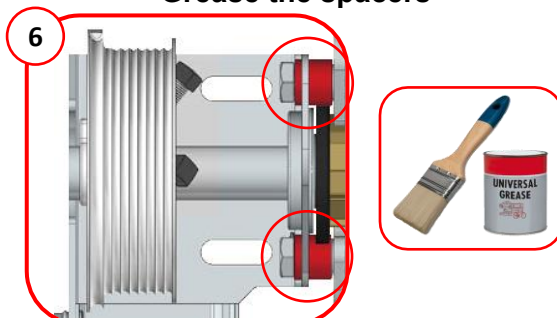
Assembling the spring assembly on the floor



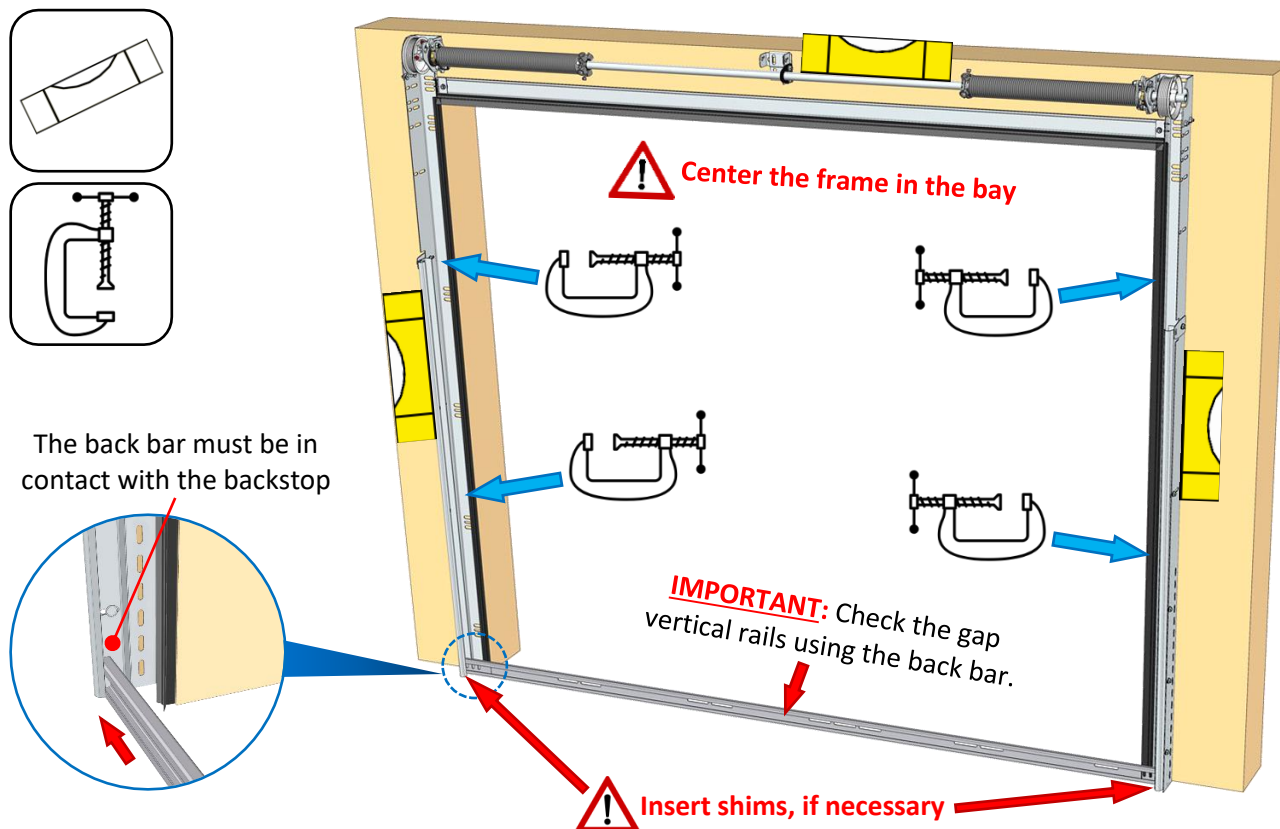
Align the end of the shaft on the bearing



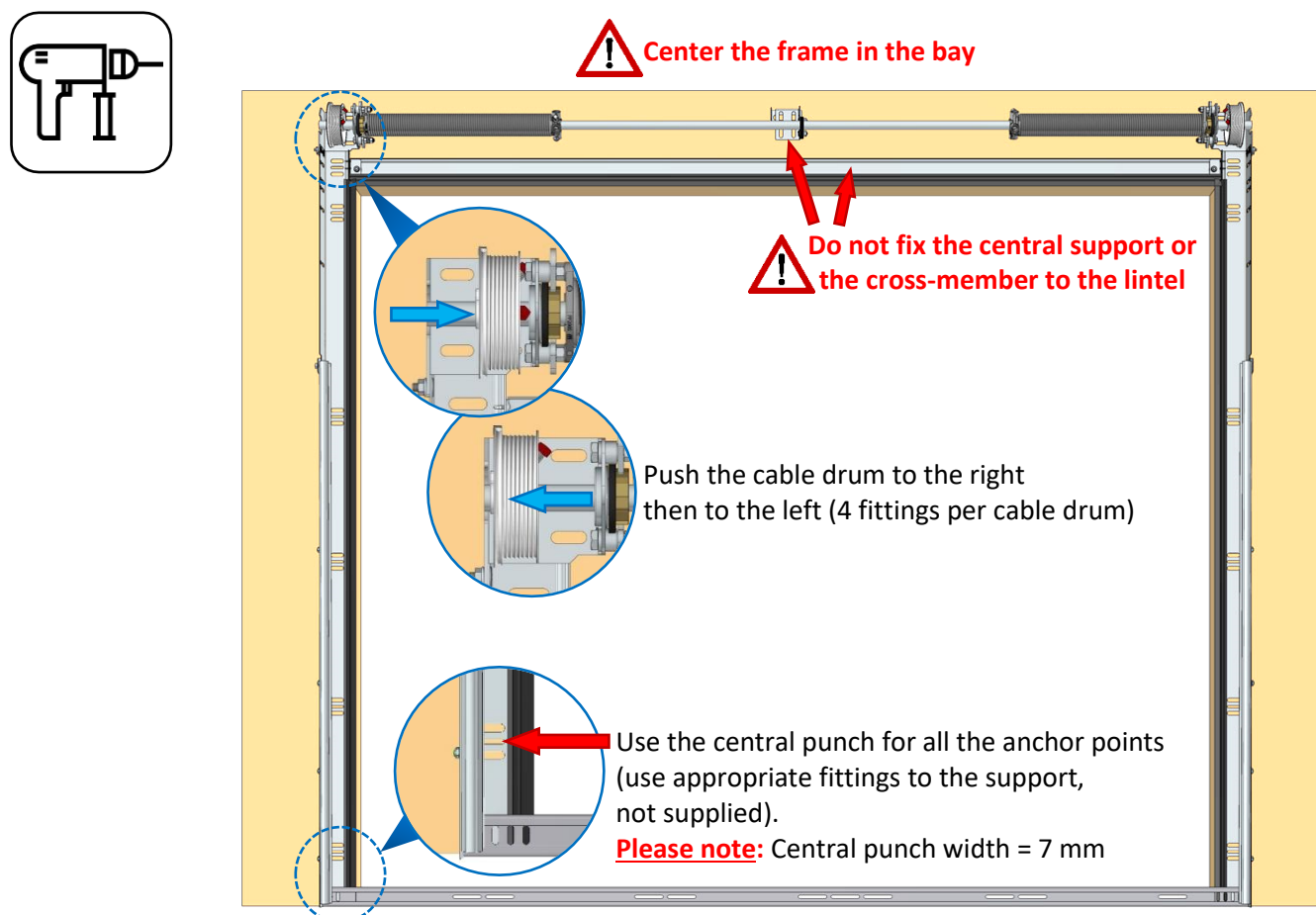
IMPORTANT
Grease the spacers



Layout of the frame



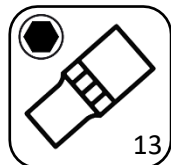
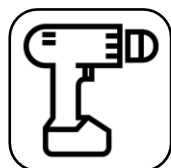
Fixing the vertical rails



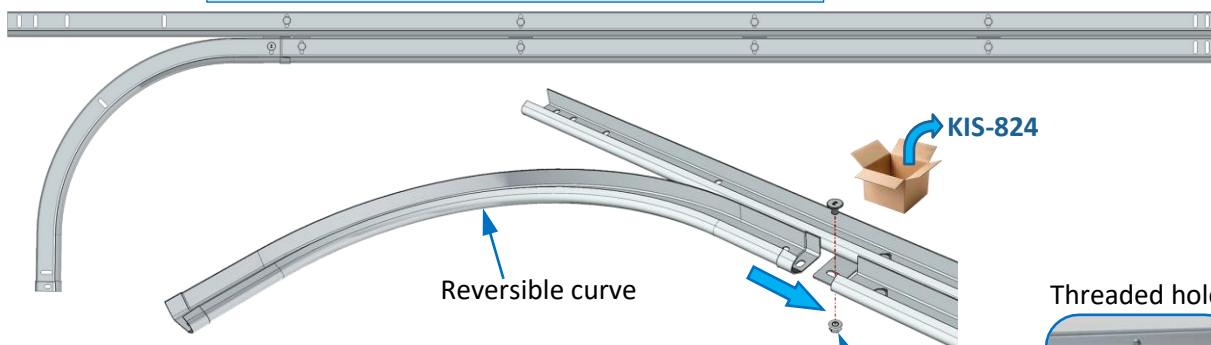
Repeat the process on the opposite side

Horizontal rail installation

Assembling of curves

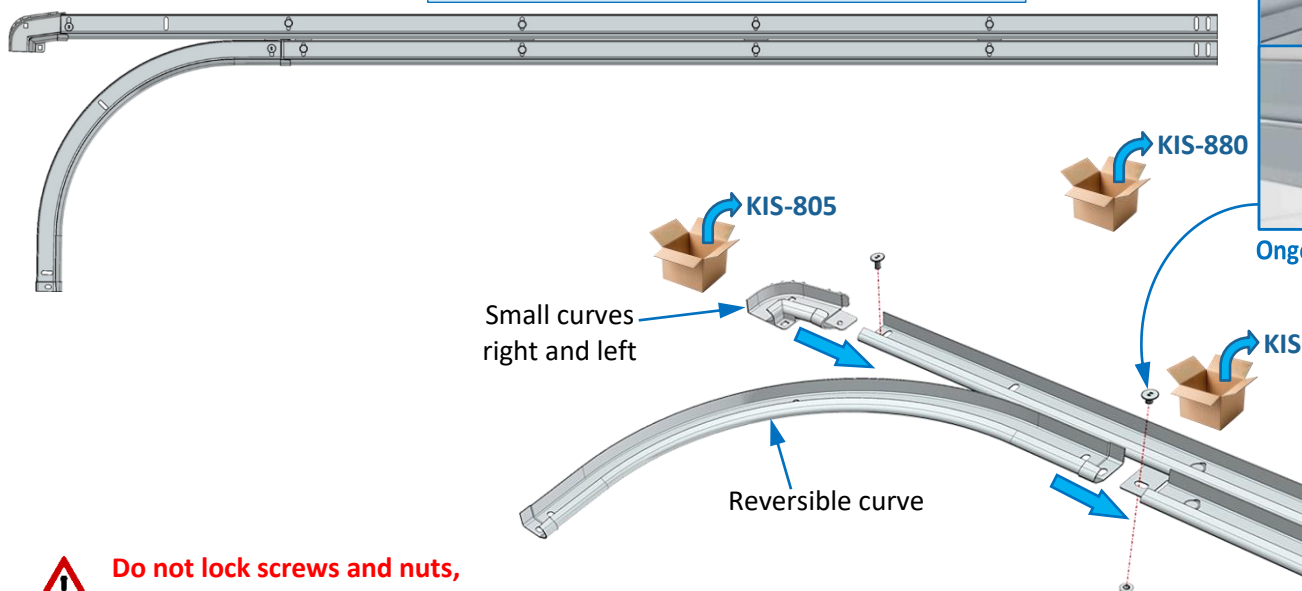


HORIZONTAL RAILS for Motorised door



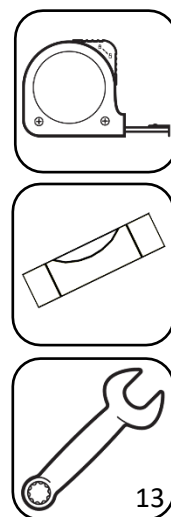
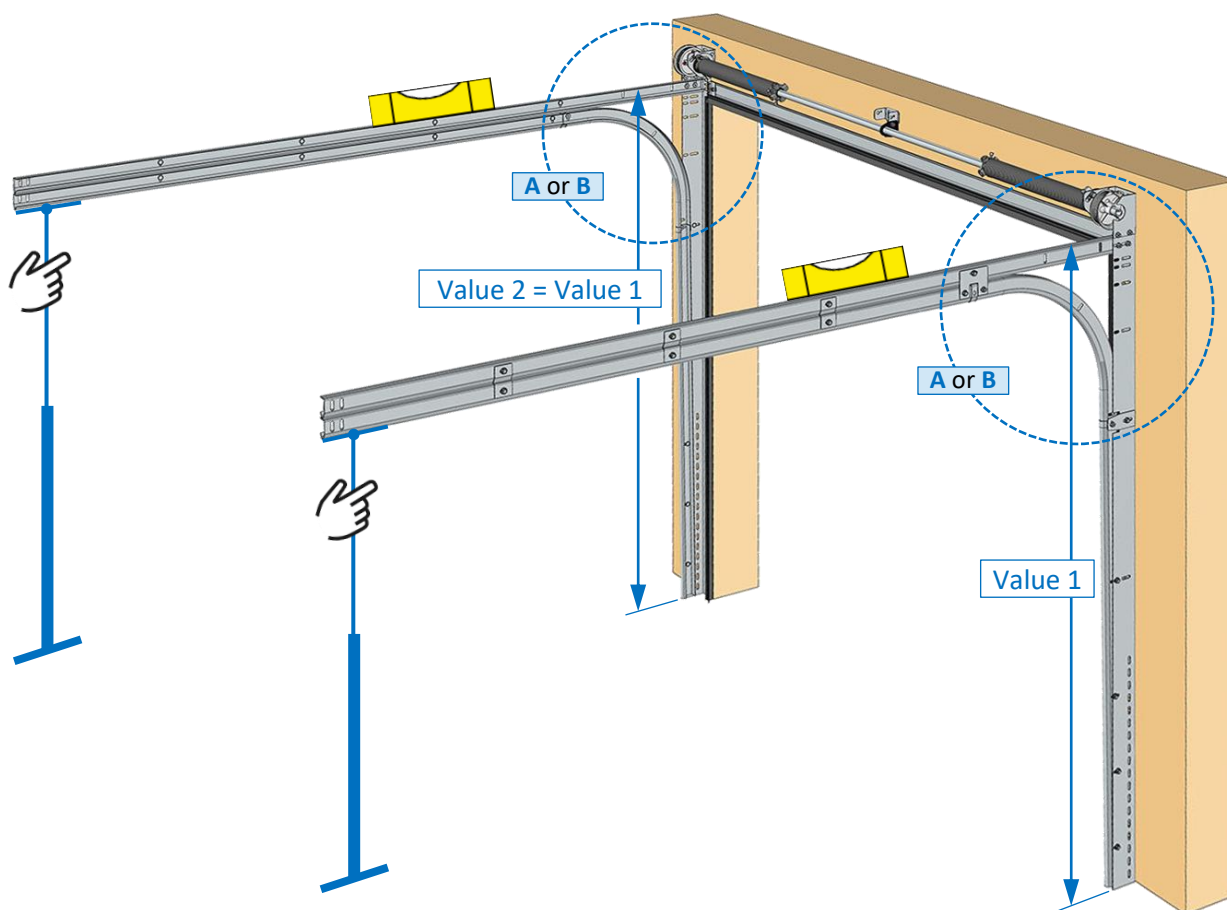
OR

HORIZONTAL RAILS for Manual door

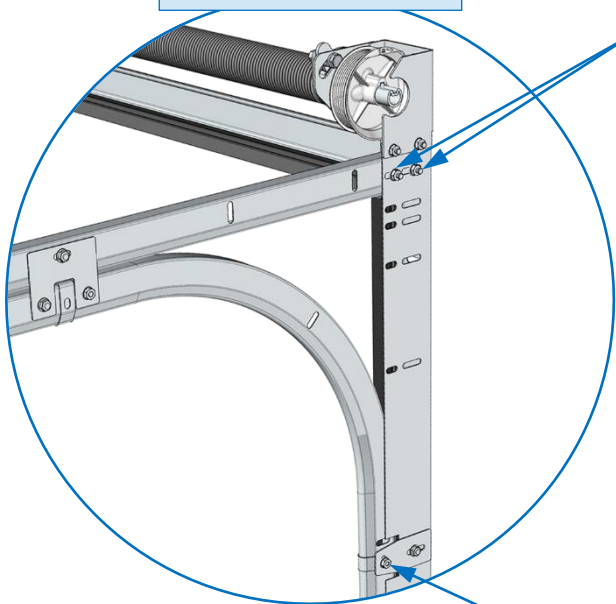


**Do not lock screws and nuts,
to facilitate adjustment during installation.**

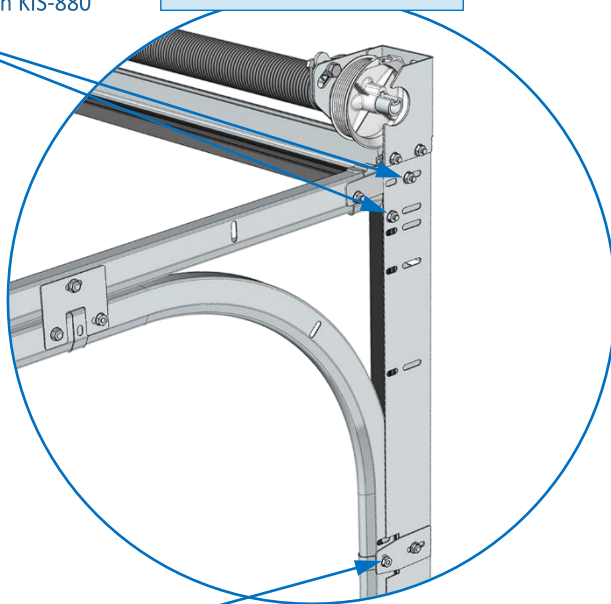
Fixing the horizontal rails



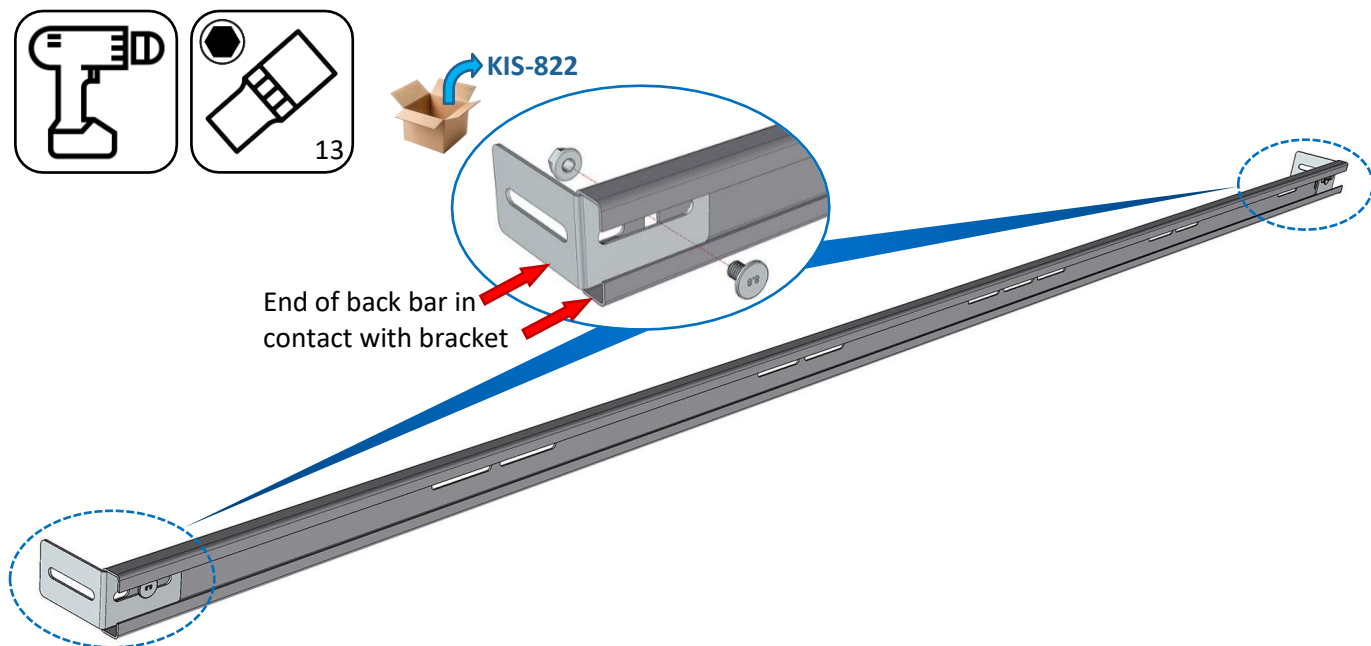
A- MOTORIZED door



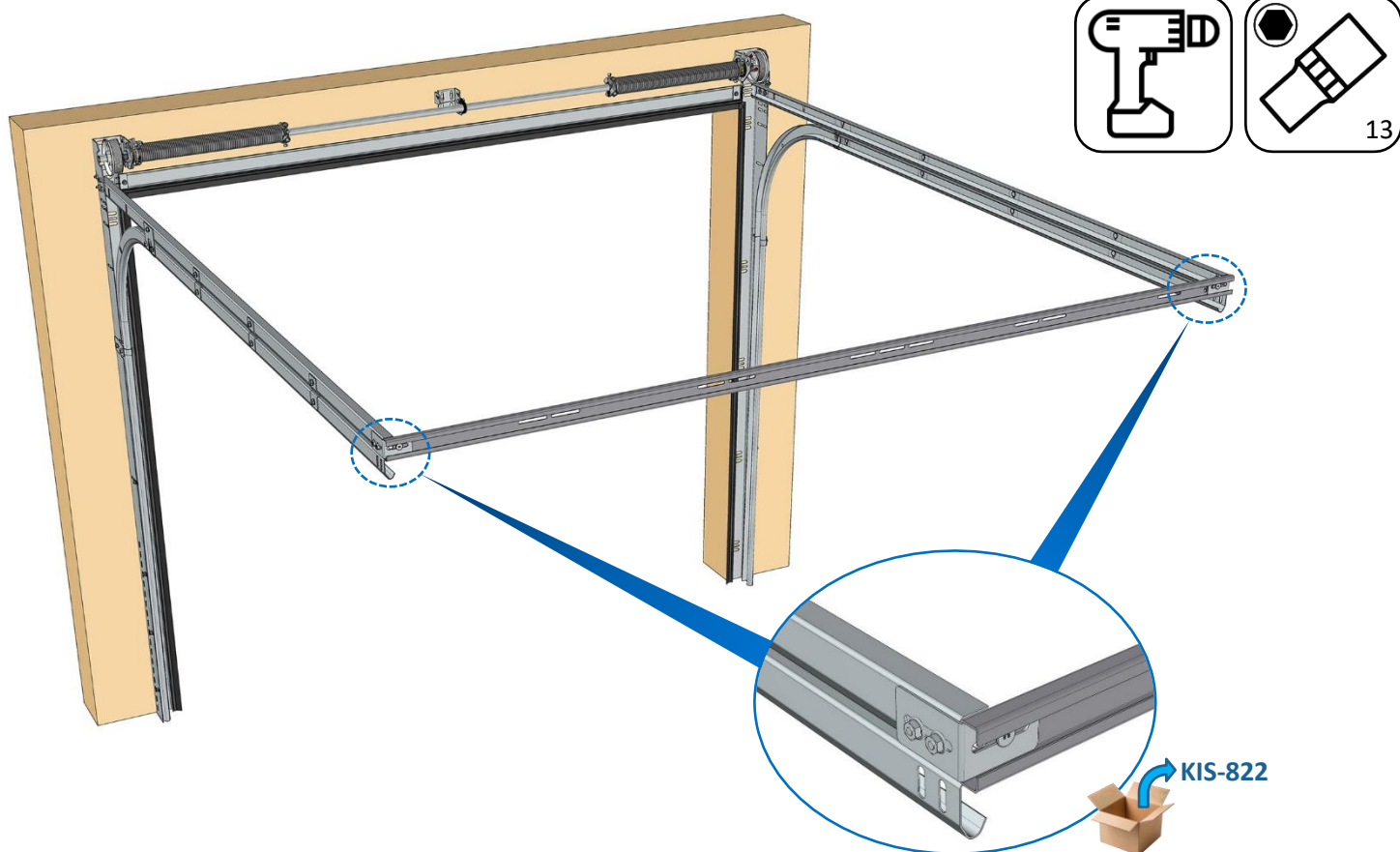
B- MANUAL door



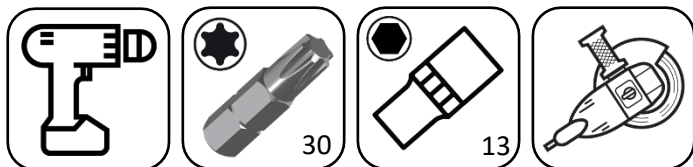
Assembling the back bar brackets



Installing the back bar



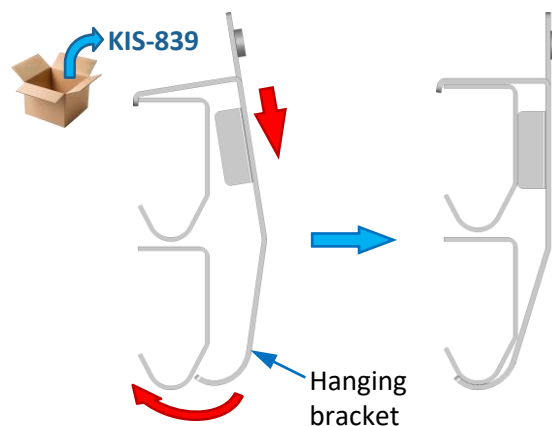
Installing the hangers



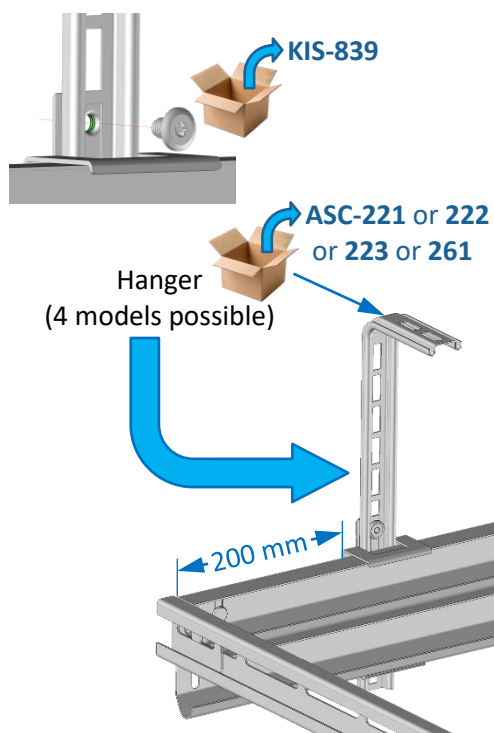
Adapt the number of hangers to the dimensions of the doors:

- 2 hangers, if PW ≤ 3000 or PH ≤ 2150 mm
- 4 hangers, if PW > 3000 or PH > 2150 mm

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

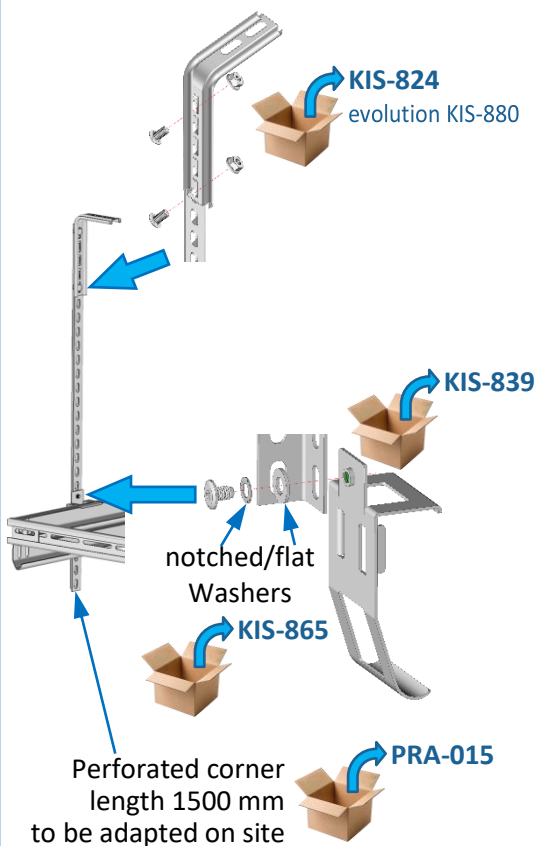


Assembly: 200 mm ≤ OH ≤ 670 mm



Assembly: 670 mm < OH ≤ 1600 mm

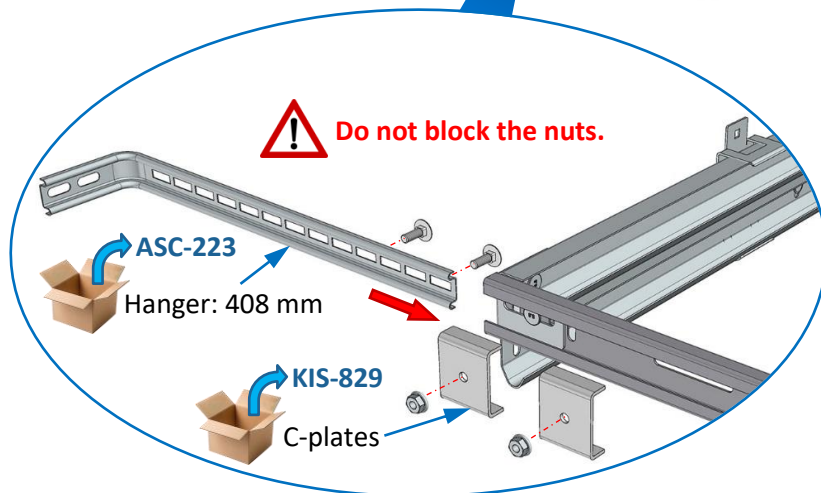
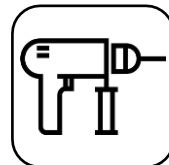
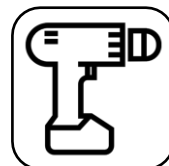
IMPERATIVE: Triangulate the hanger



Back bar extension (option)

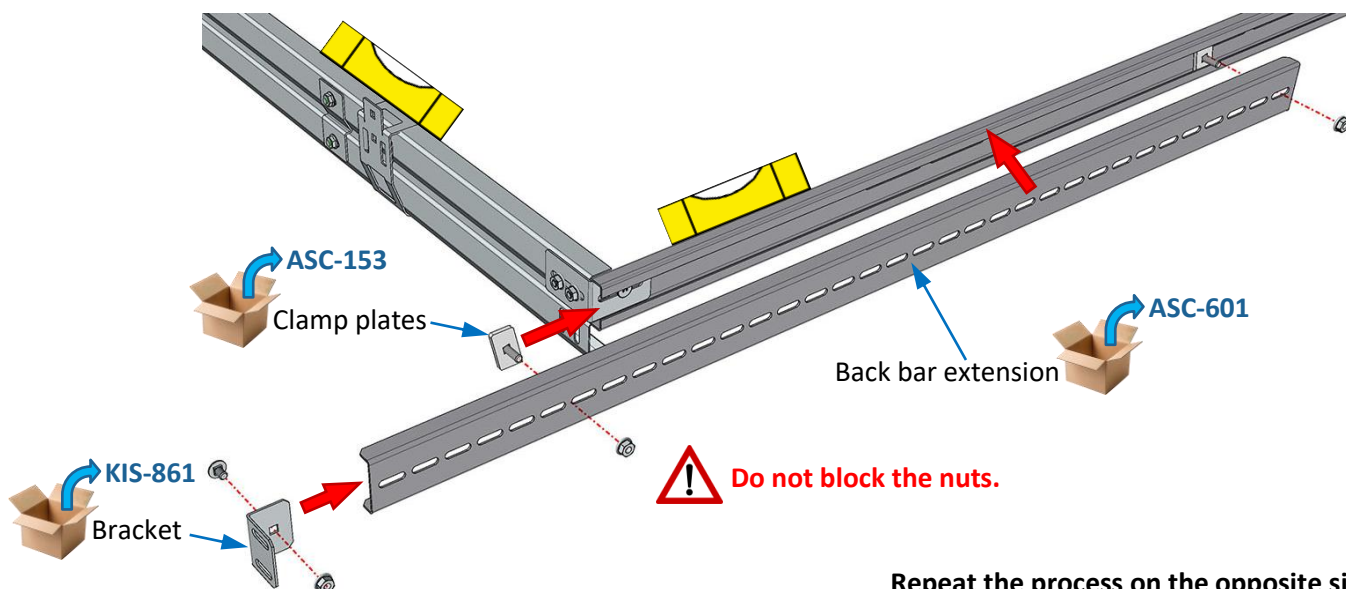
The hanging brackets must always be assembled

Reservation ≤ 300 mm



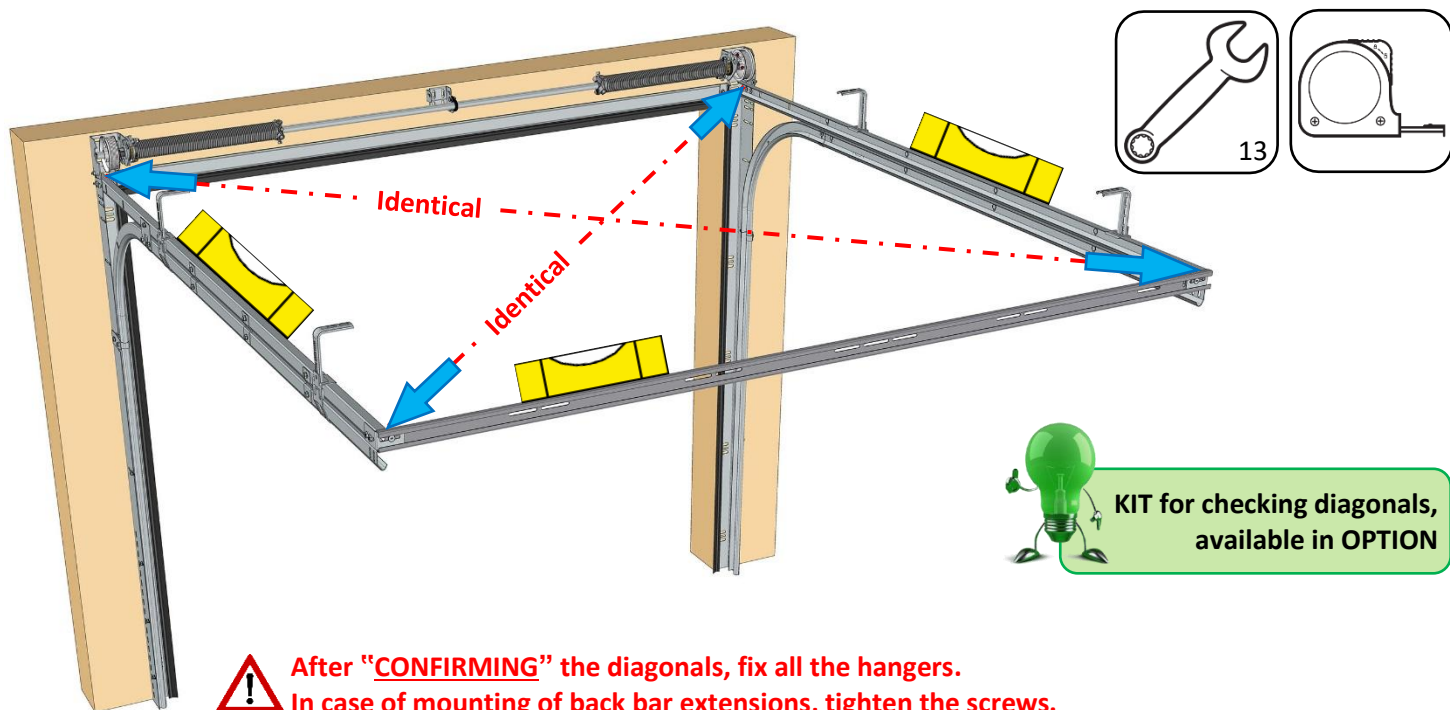
Repeat the process on the opposite side

300 mm < Reservation ≤ 1000 mm

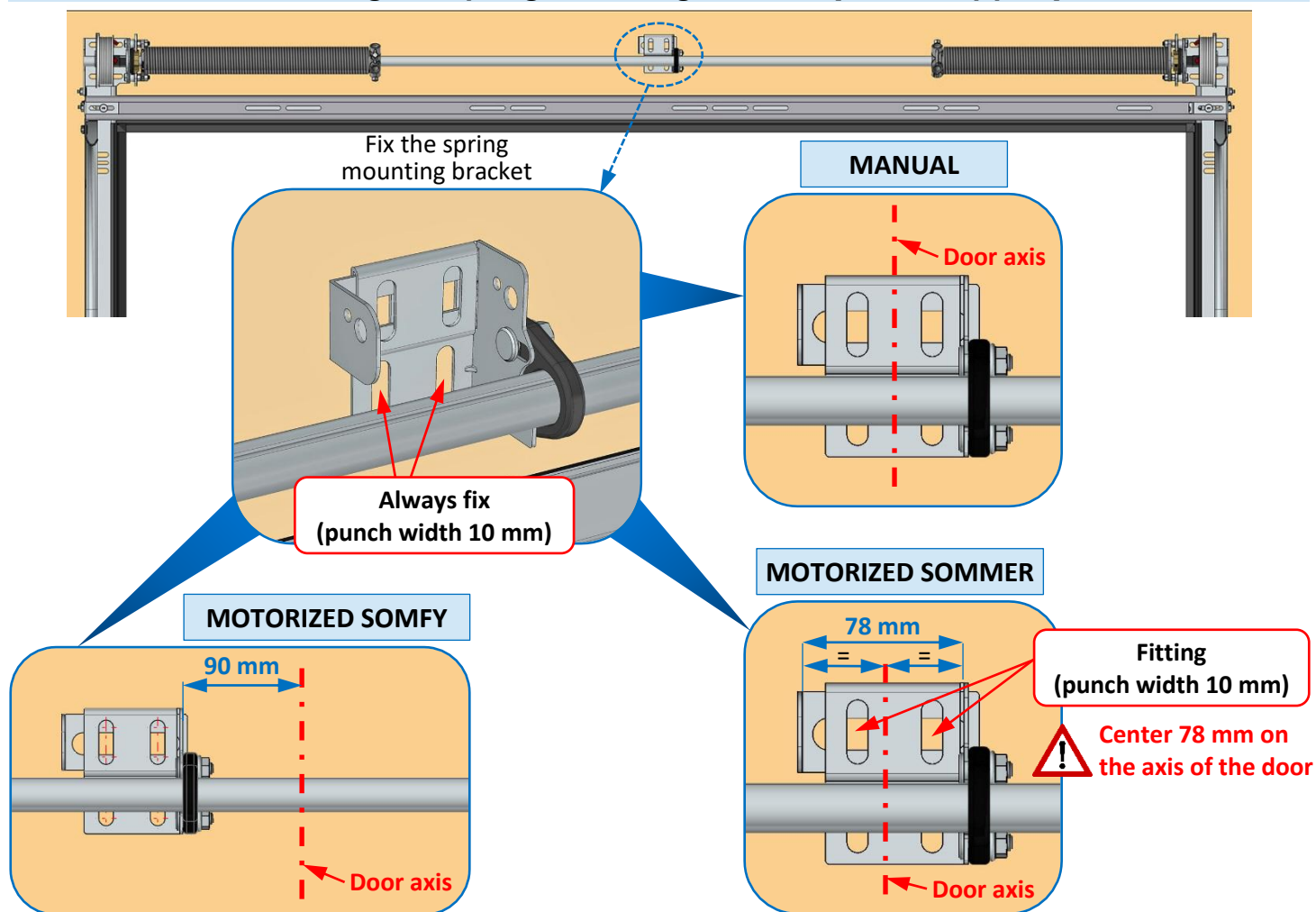


Repeat the process on the opposite side

Checking the diagonals

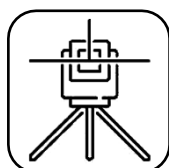


Installing the spring mounting bracket (motor support)



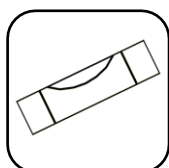
Installation of the door

Necessary tools



Laser level

or



Spirit level



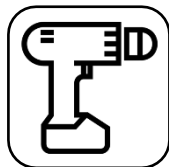
Ladder



Utility knife



Locking pliers



Electric screwdriver



Socket 13



Torx bit 30



Flat key 13

Necessary kits and accessories



Standard:

CHA-027, KIS-858 or KIS-852, KIS-033 and/or KIS-039, KIS-832 or KIS-833, KIS-830, KIS-835 and/or KIS-836, GAL-047, KIS-082 and/or KIS-088 et KIS-834 (tandem rollers).



Motorized door:

KIS-843 (upper roller supports).

OR



Manual door:

KIS-842.

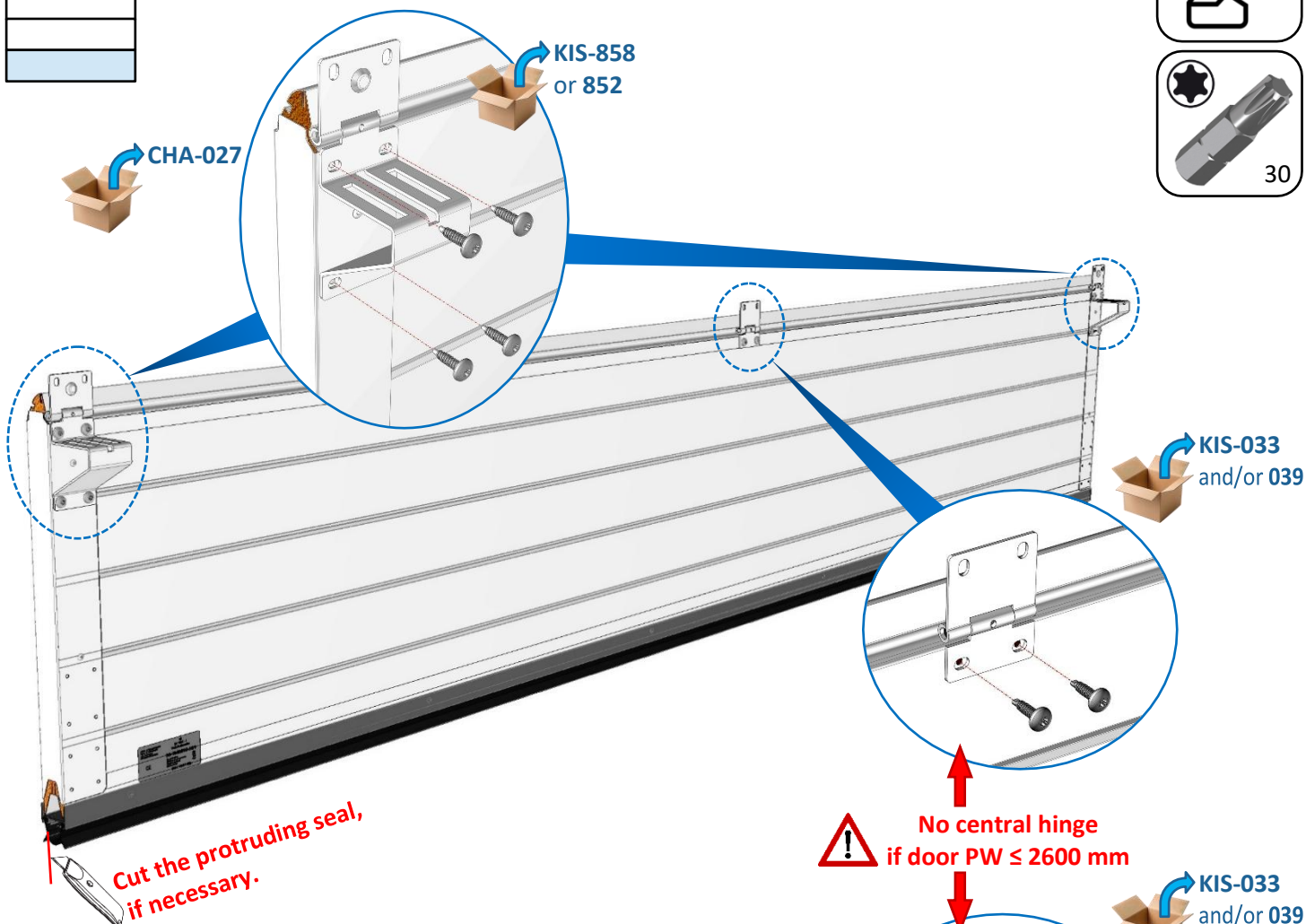
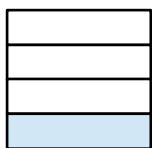
Preparation

Grease all roller shafts

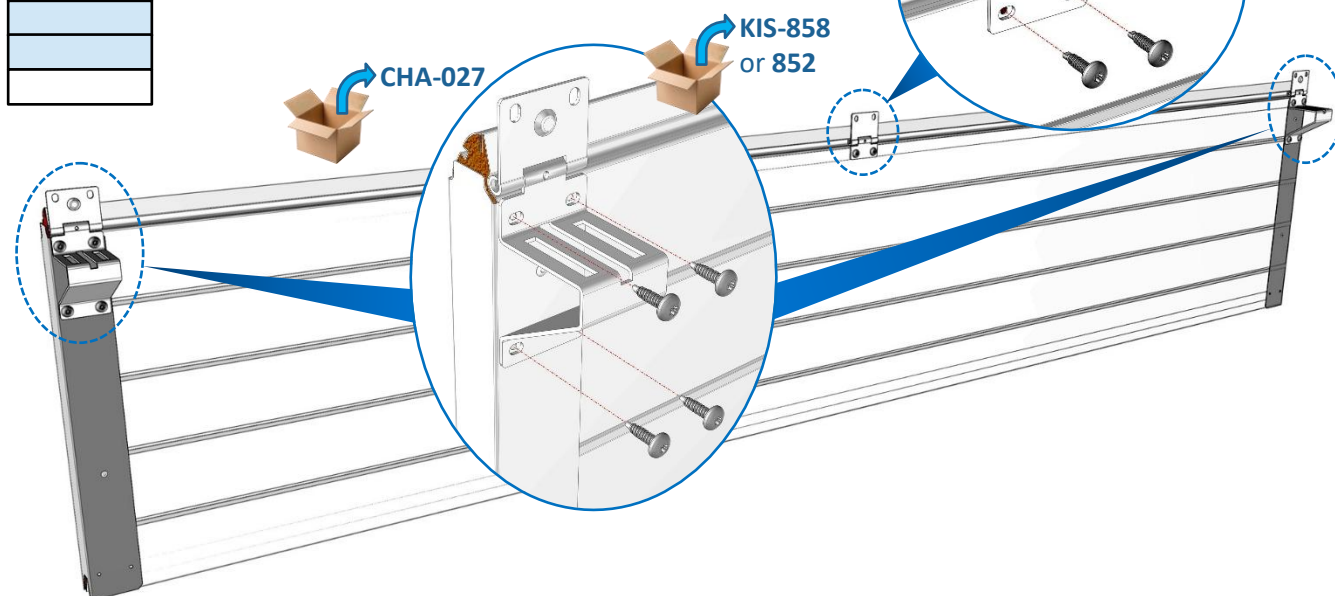
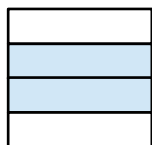


Panels preparation

BOTTOM PANEL

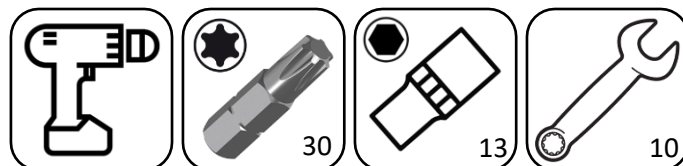
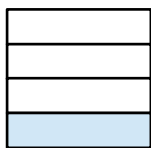


INTERMEDIATE PANEL(S)



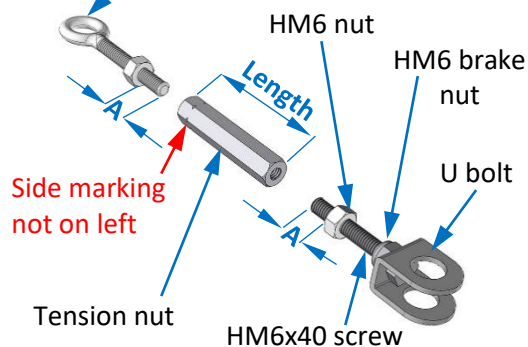
Mounting of the panels

Installing the bottom panel



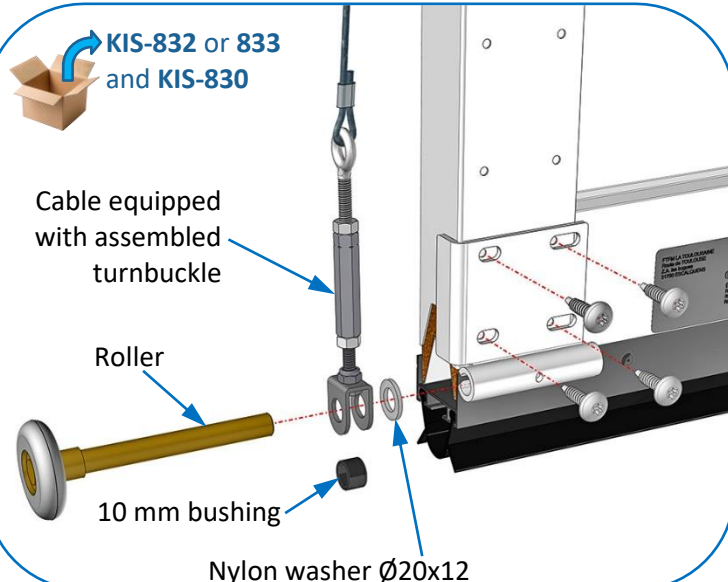
Assemble the turnbuckles

Cable equipped with turnbuckle eye and nut (not on left)



Length	A
30 mm	12 mm
50 mm	15 mm

Assemble the turnbuckles



! The turnbuckle eye must be adjusted in an identical manner for each cable.

! **OPTION tandem**

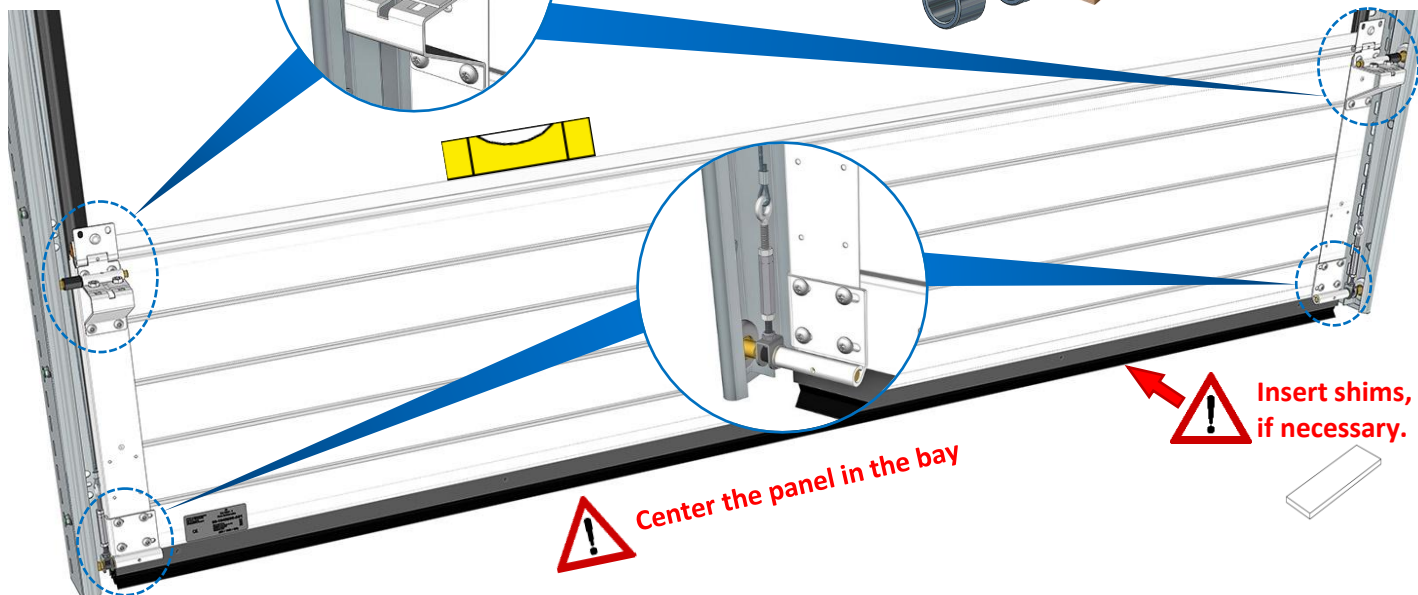
KIS-835 and/or 836

CHA-027 and GAL-047

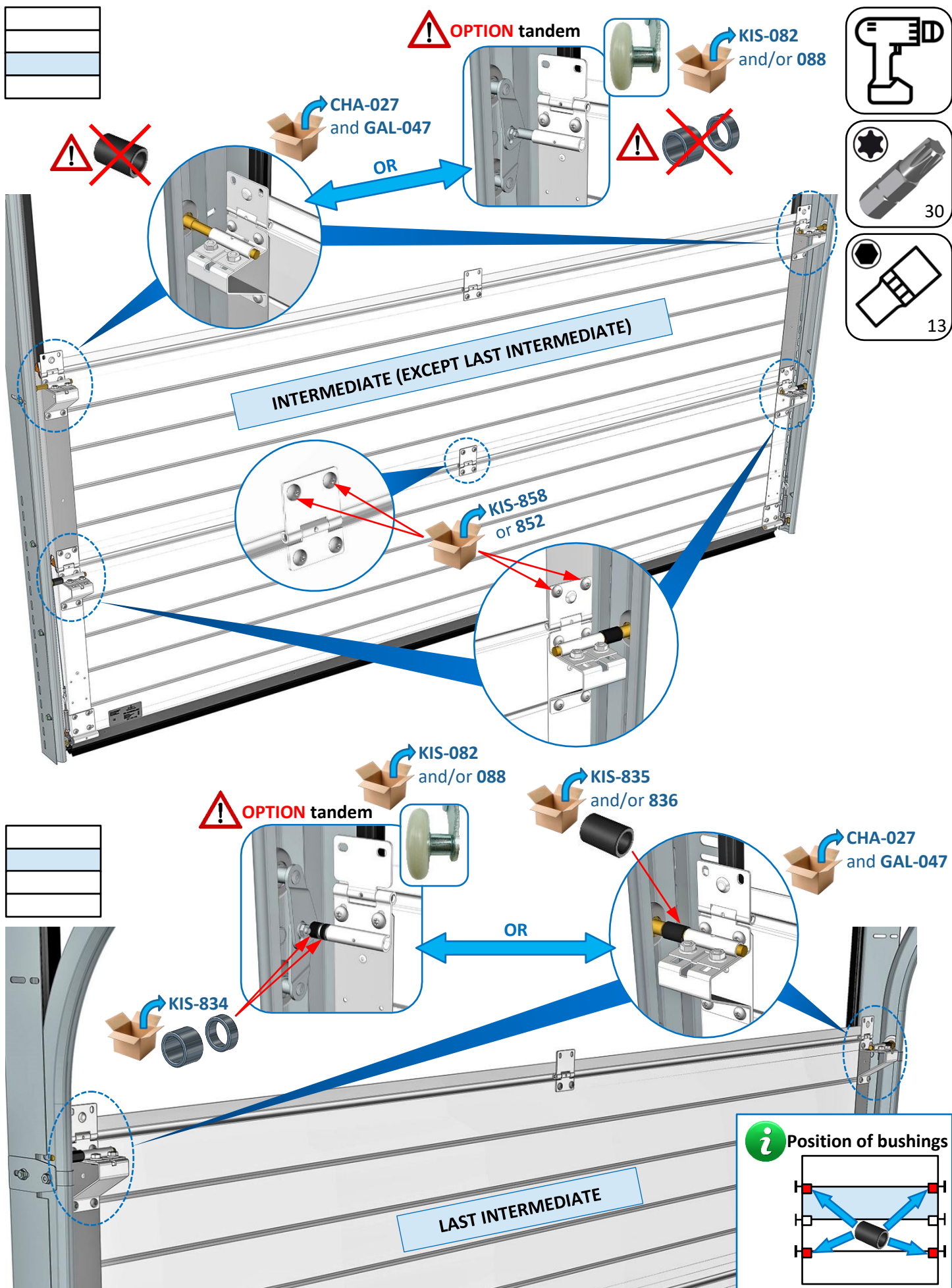
OR

KIS-082 and/or 088

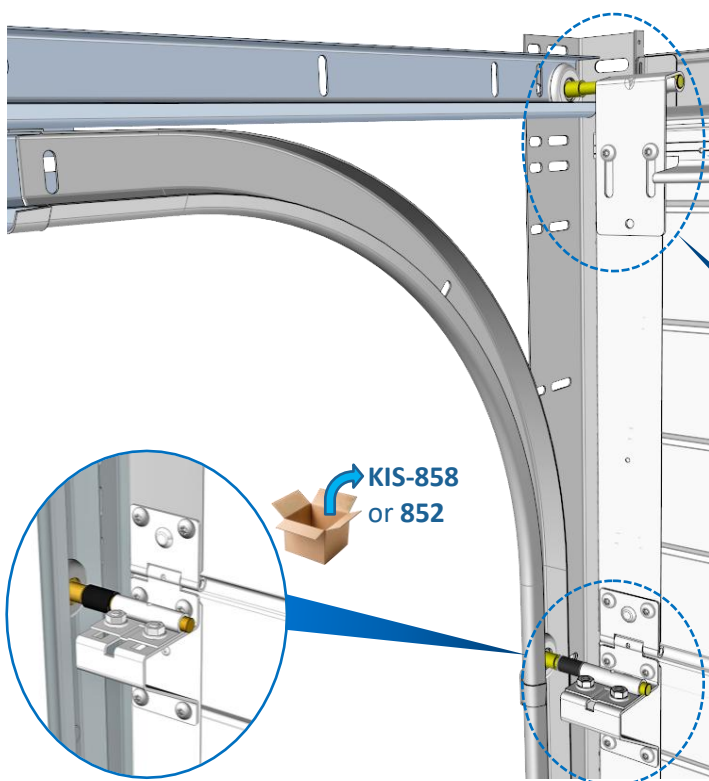
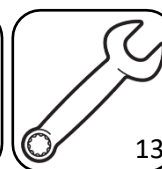
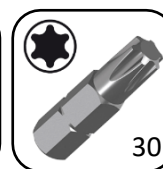
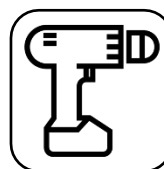
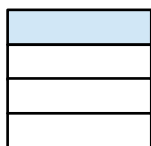
KIS-834



Installing the intermediate panel(s)

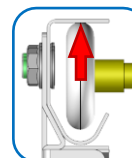


Installing the top panel



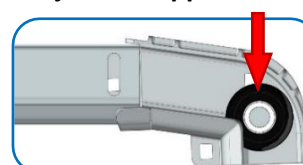
MOTORIZED door

Adjust the upper rollers

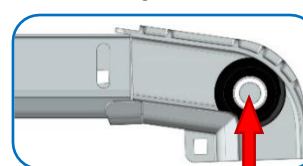


MANUAL door

Adjust the upper rollers



Manual version
or



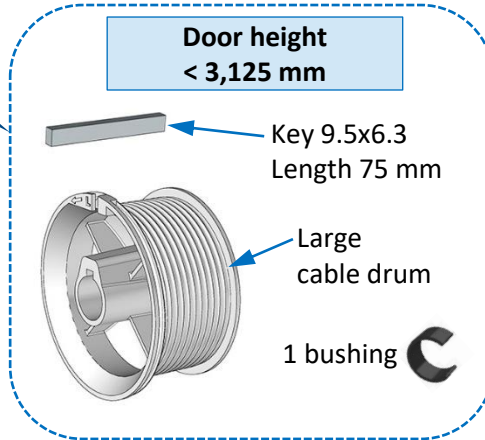
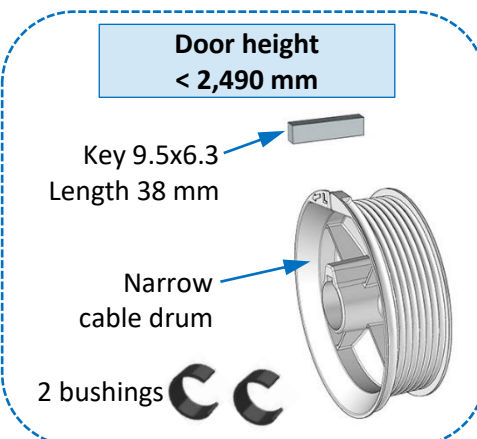
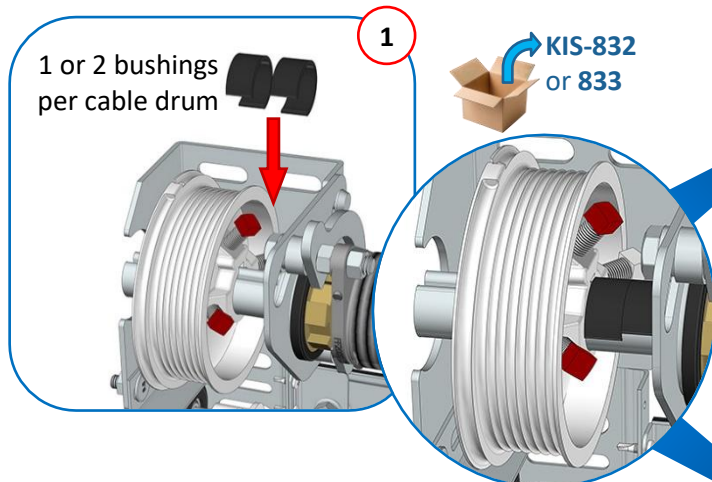
Motorized version

Repeat the process on the opposite side.

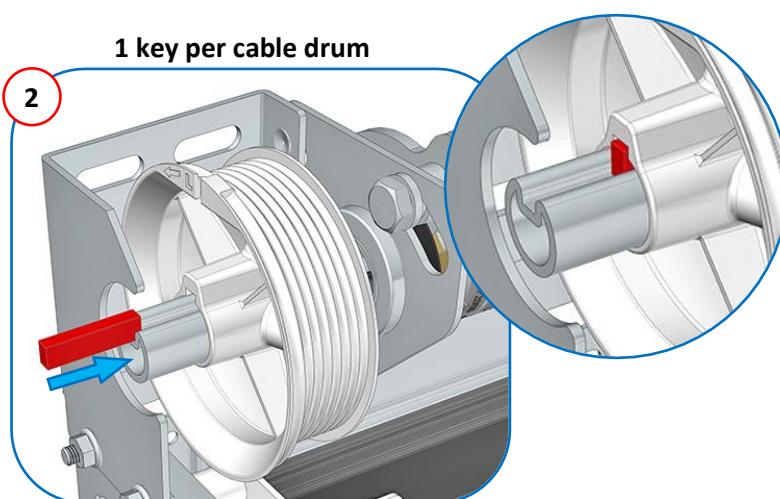
Cable installation

Positioning the cable drums

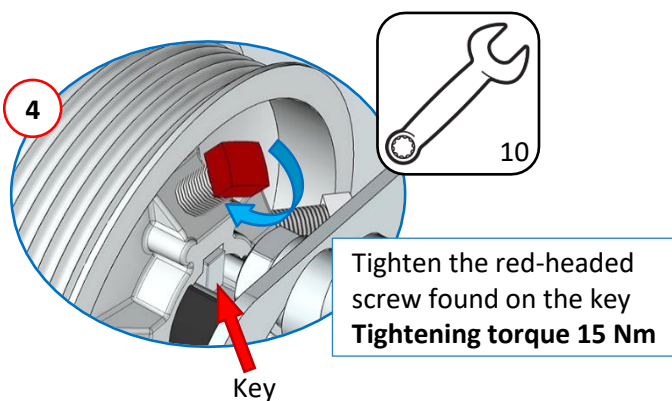
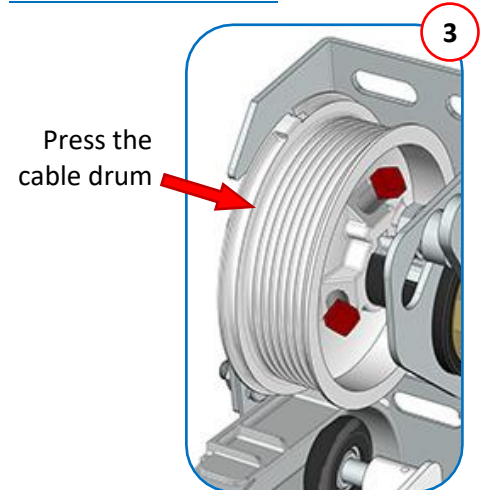
Installing the bushings for the 2 cable drums:



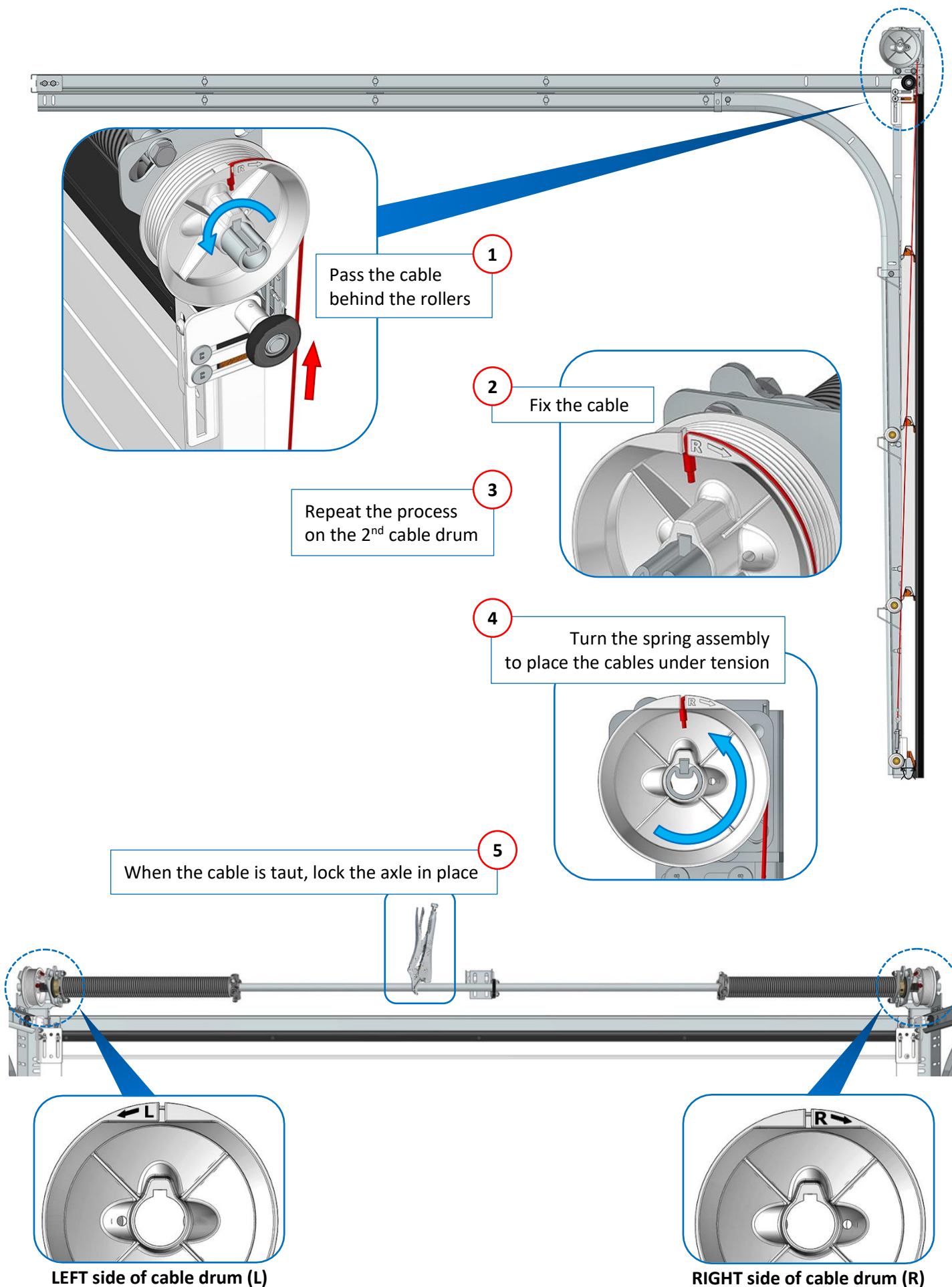
Installing the keys on the cable drums:



Block the cable drums:

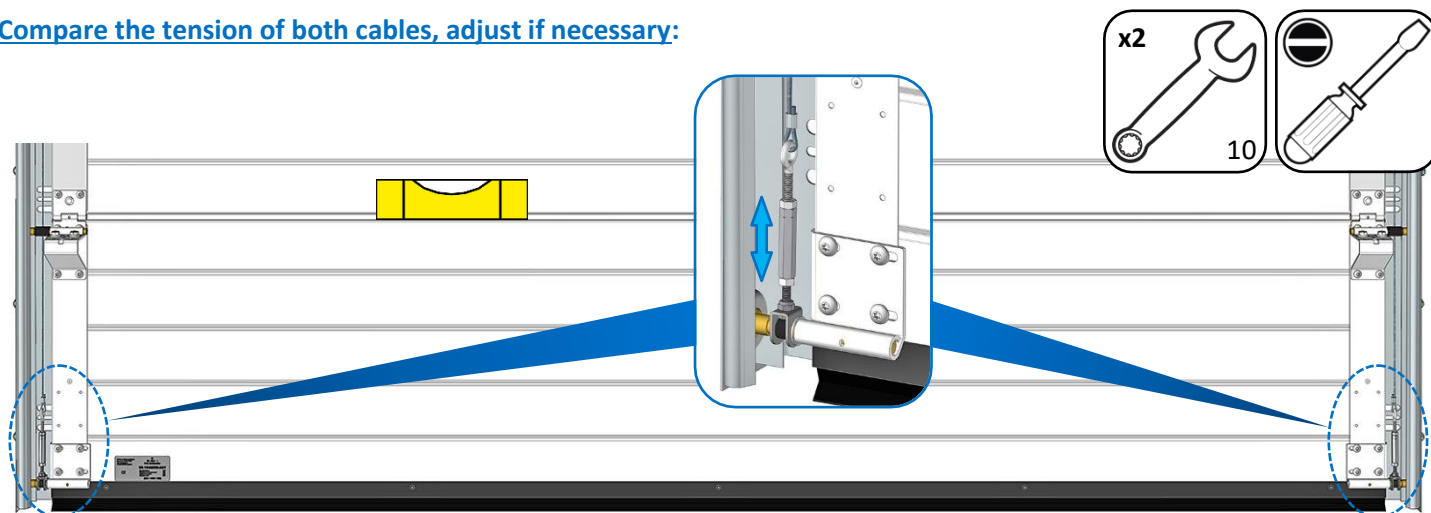


Routing the cables around the cable drums



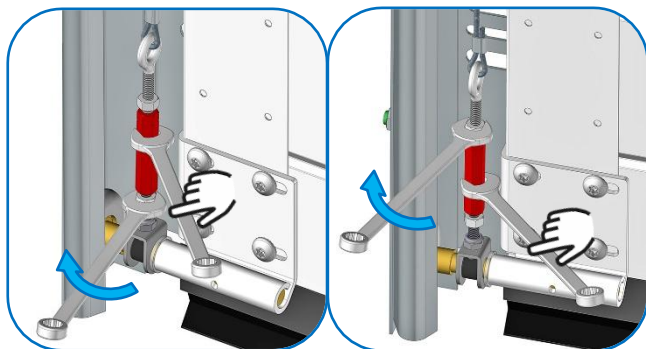
Checking the tension of the cables

Compare the tension of both cables, adjust if necessary:



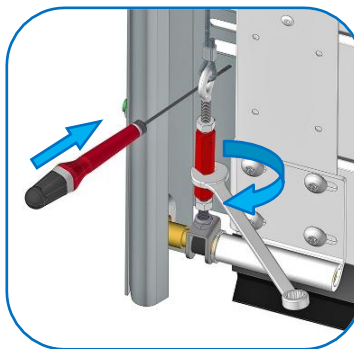
1

Loosen the nuts



2

Tension the cable



3

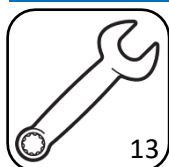
Tighten the nuts



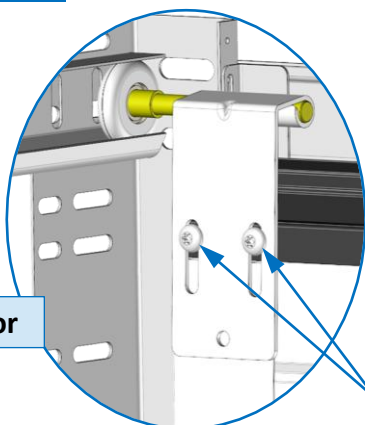
Do not over tension the cable, refer to



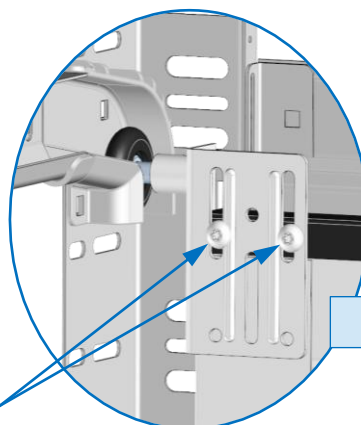
Release the upper rollers:



MOTORIZED door



Loosen the nuts



MANUAL door

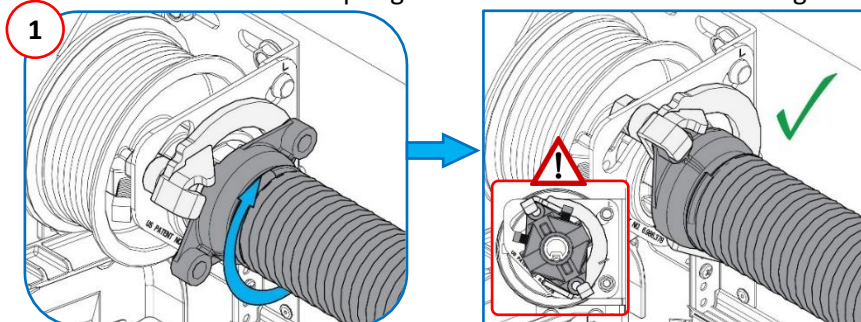
Remove the shims and lower the panels:



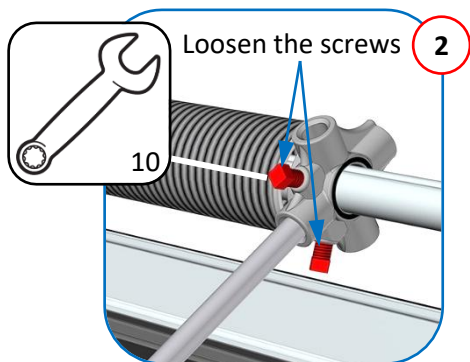
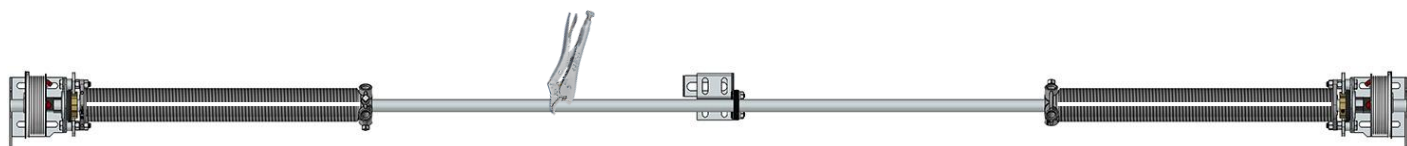
Spring adjustments

Spring tension

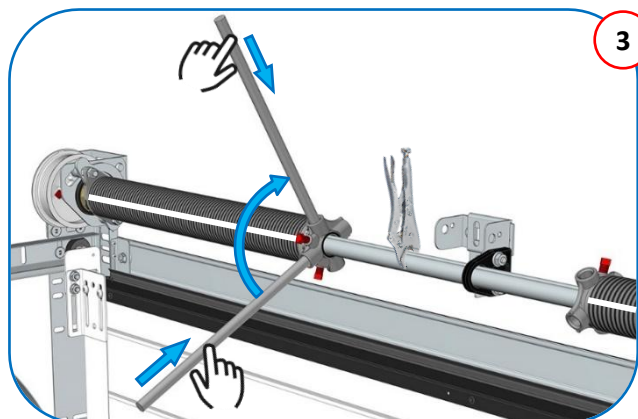
Reminder: Insert each spring into the 2 hooks on the anti-fall guard



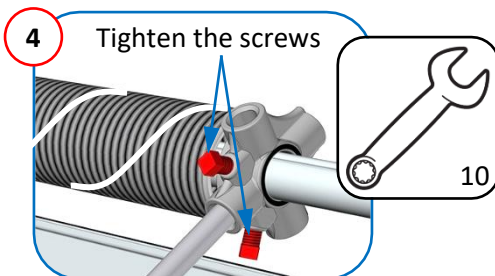
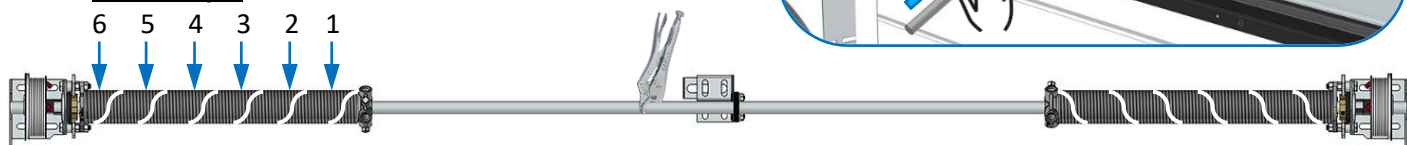
Check both springs are positioned correctly inside the anti-fall guard supports before tensioning the springs.



Tighten the bottom springs towards the top, according to the number of turns shown on the label stuck to the axle.



For example: Number of turns



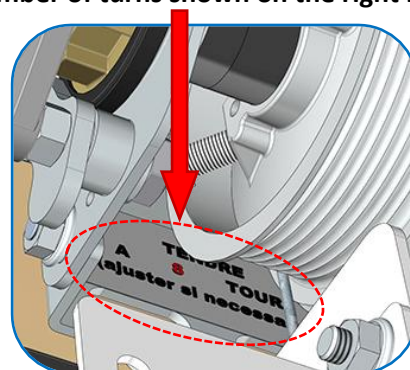
Tightening torque 20 Nm

Table for number of spring tension turns

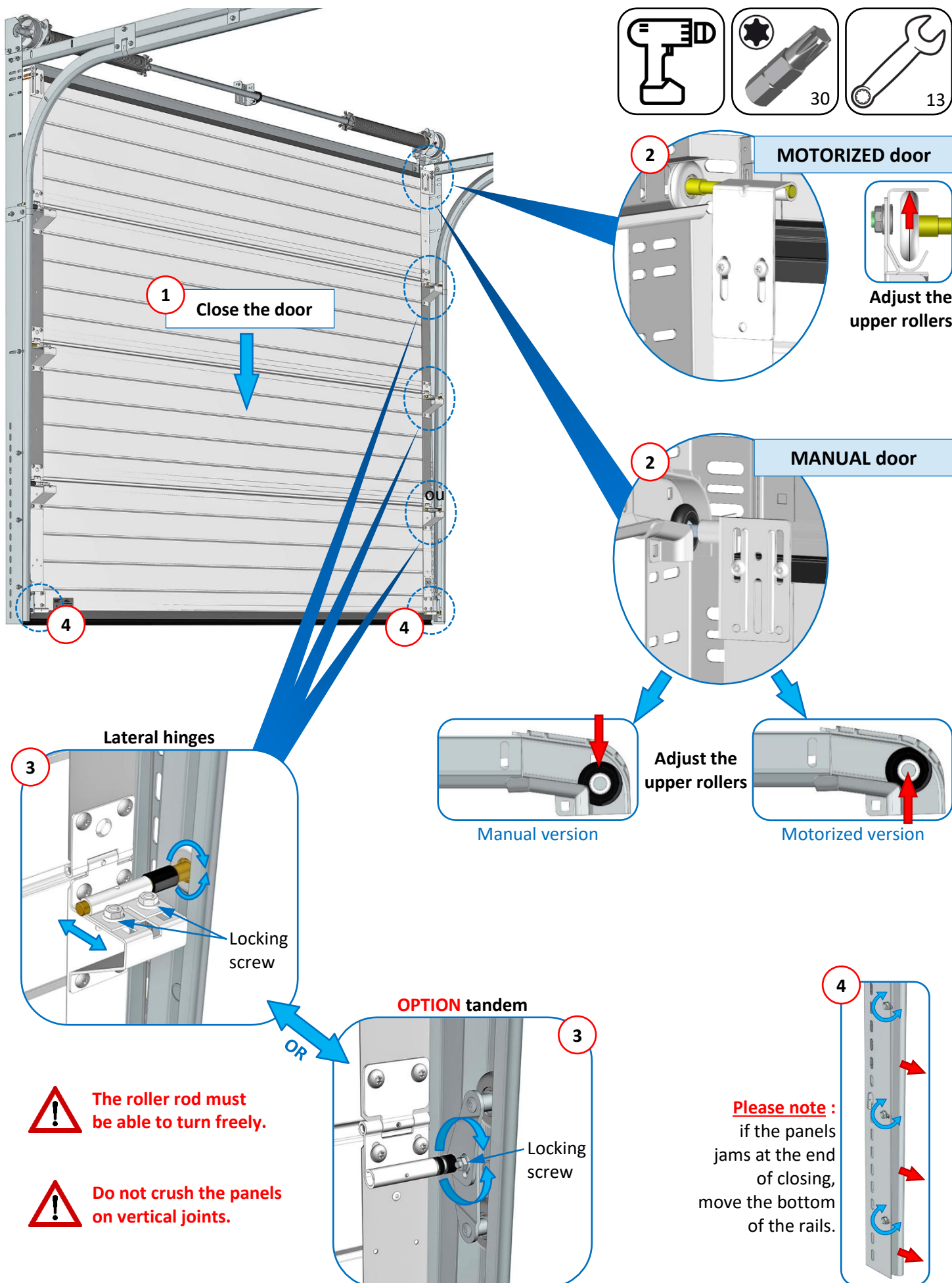
Passage height (mm)	Number of tension turns
≤ 1,820	6
From 1,821 to 1,998	6.5
From 1,999 to 2,209	7
From 2,210 to 2,347	7.5
From 2,348 to 2,519	8
From 2,520 to 2,714	8.5
From 2,715 to 2,885	9
From 2,886 to 3,000	9.5

Number of turns shown on the right bearing

Adjust the settings if necessary



Adjusting the rollers



Checking the balance

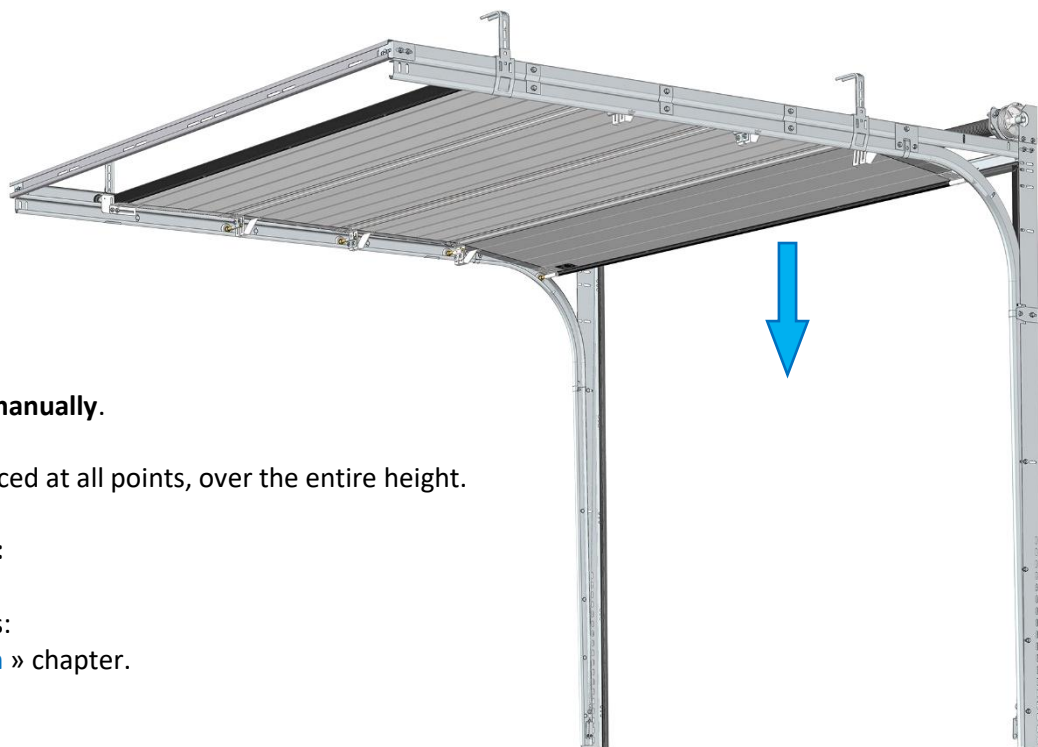


Remove the **locking pliers**.
Gently close the panels
and **operate it several times manually**.

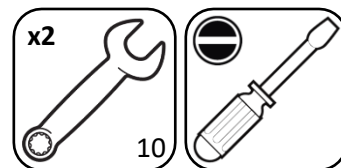
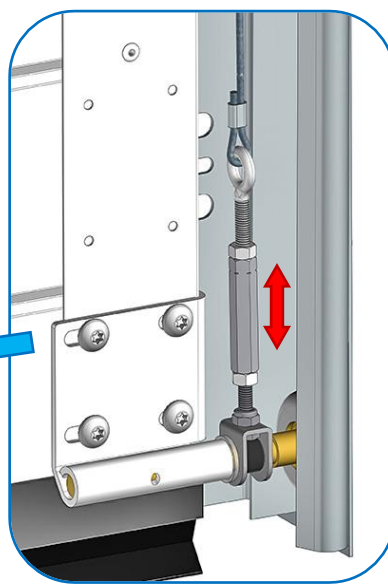
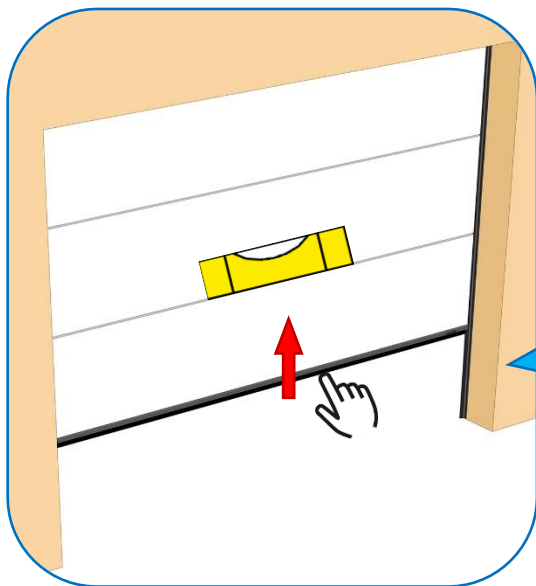
Note: The door must be balanced at all points, over the entire height.

If the door is poorly balanced:

- Lower the door.
- Tighten or loosen the springs:
Refer to the « **Spring tension** » chapter.



Leveling the panels



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

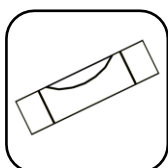
Finishing the installation

Necessary tools

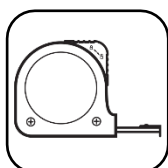


Laser level

or



Spirit level



Tape measure

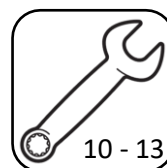


Ladder



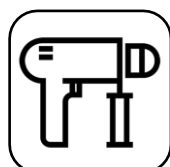
PZ1

Pozidriv
screwdriver

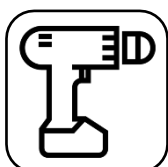


10 - 13

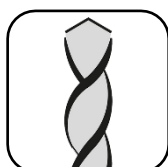
Flat keys



Perforator



Electric
screwdriver



Steel drill bits
Ø5-10-13



PZ2

Pozidriv bit



30

Torx bit



Brush



Pot of grease

Necessary kits and accessories



Standard:

KIS-826, KIS-830, JNT-040 (option).



Motorized door:

KIS-843 (upper roller supports).

OR

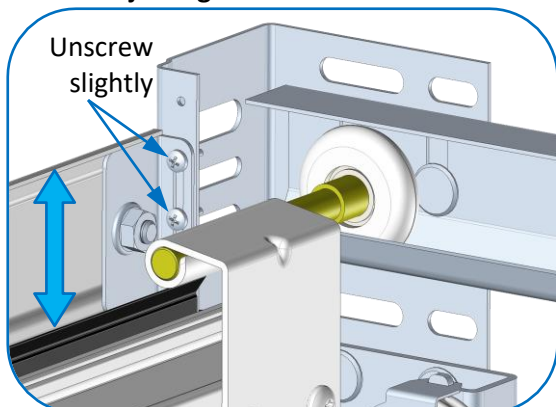


Manual door:

KIS-842, KIS-850, ASC-617, KIS-012.

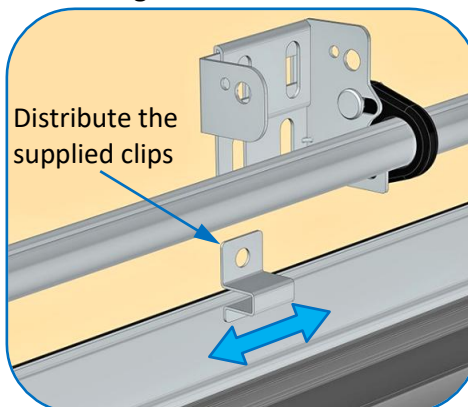
Adjusting and fixing of the cross-member

Adjusting of the cross-member

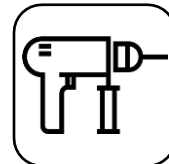
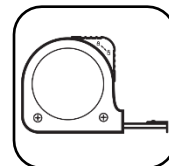


Repeat the process on the opposite side

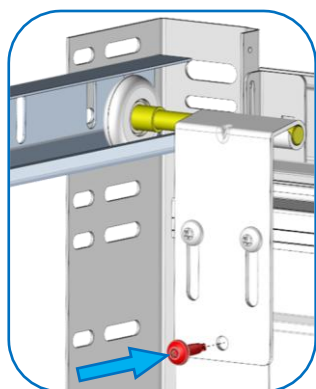
Fixing of the cross-member



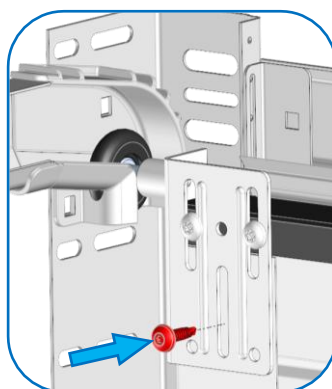
Use appropriate fittings for the support
(screws and pins not supplied)

 KIS-826

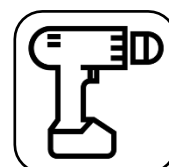
Fixing the upper roller supports



 KIS-843



 KIS-842



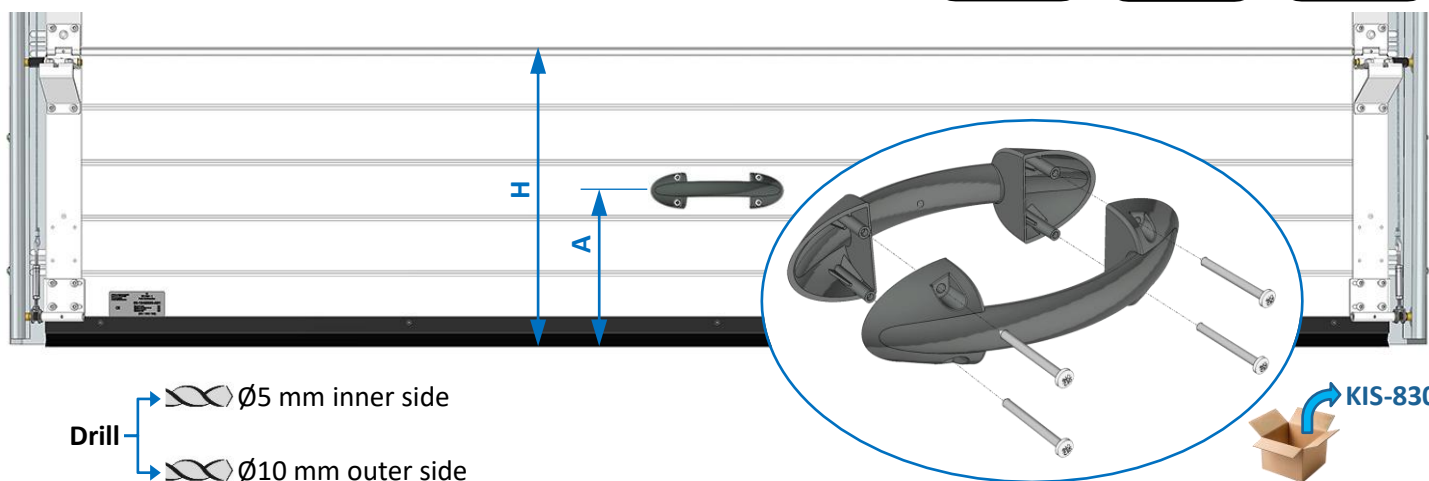
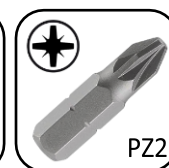
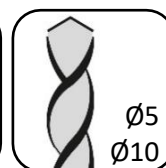
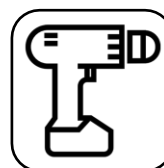
MOTORIZED door

MANUAL door

Repeat the process on the opposite side

Mounting the handle

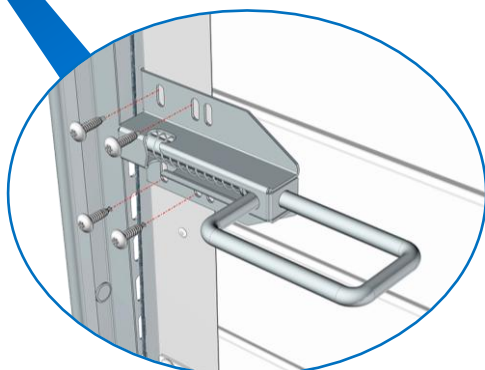
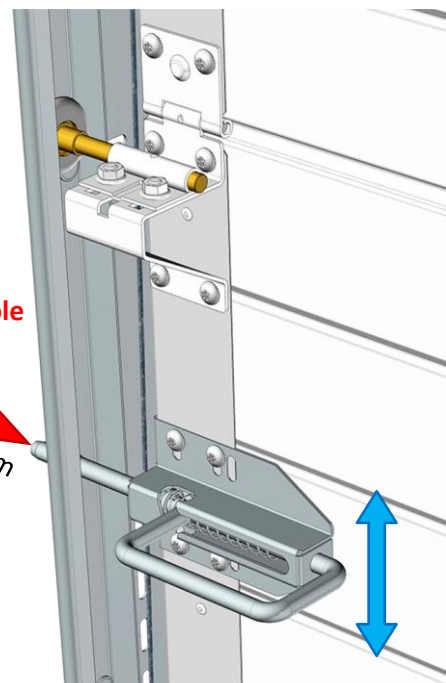
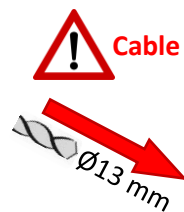
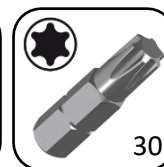
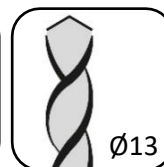
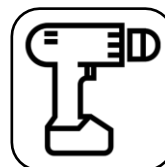
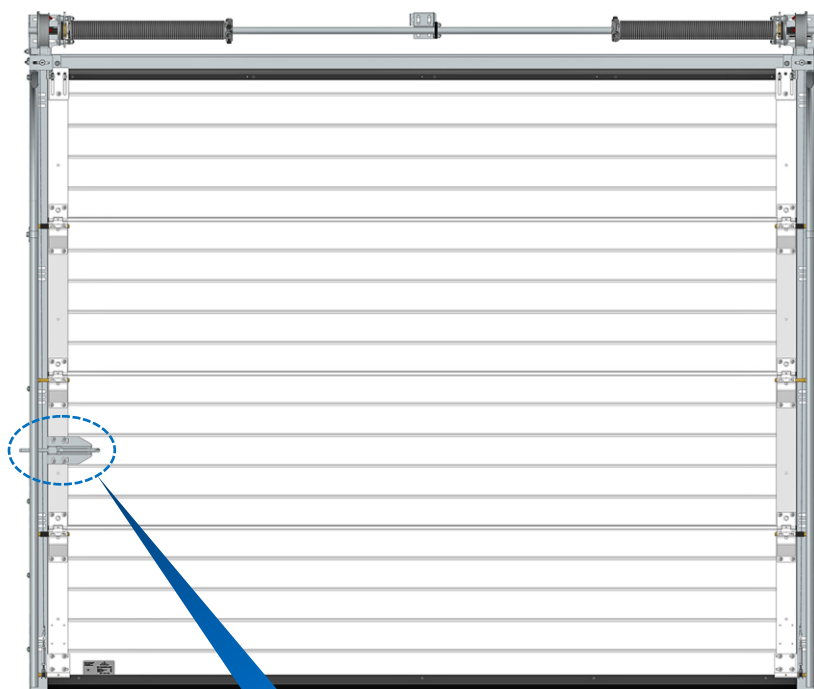
On the bottom panel: max. handle position: $A = H / 3$



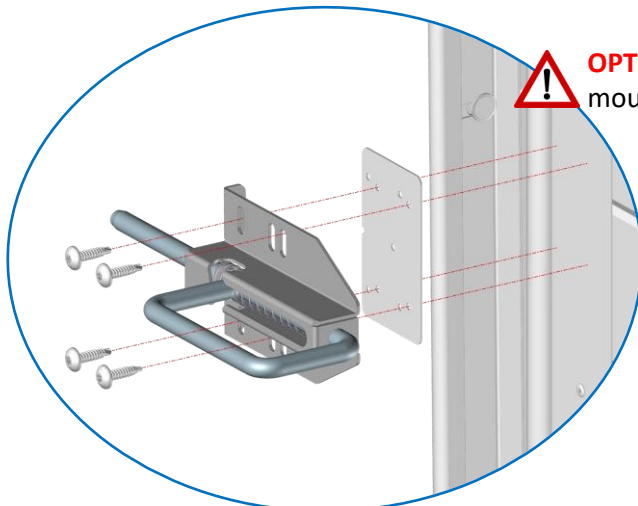
 **KIS-830**

Mounting the latch (motorized door option)

On 1st intermediate panel:



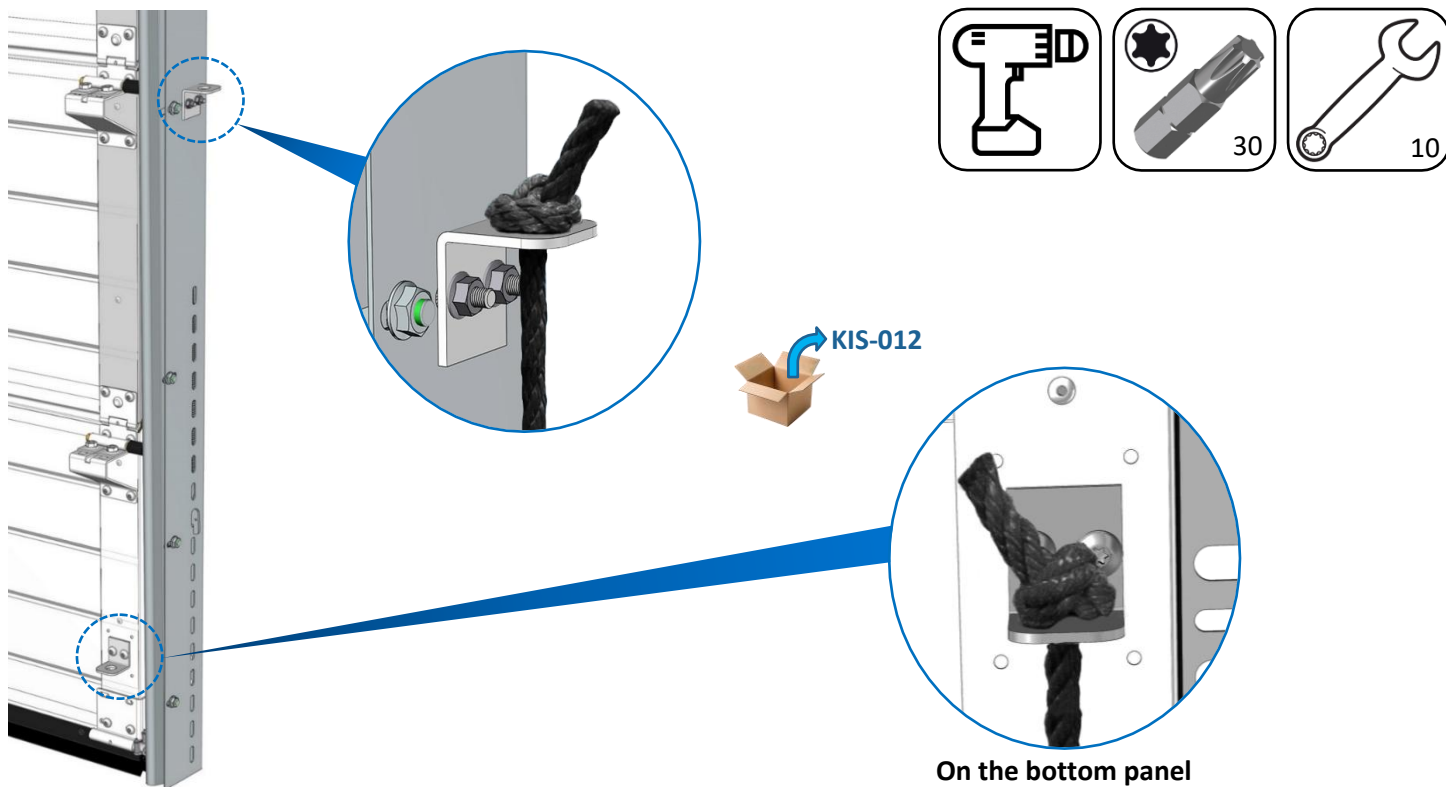
OR



OPTION thermal insulation:
mount plate under latch.



Installing the pull cord (manual door)



Installation of opening stop (if manual door)

- Refer to the instruction for installation of the opening stop.

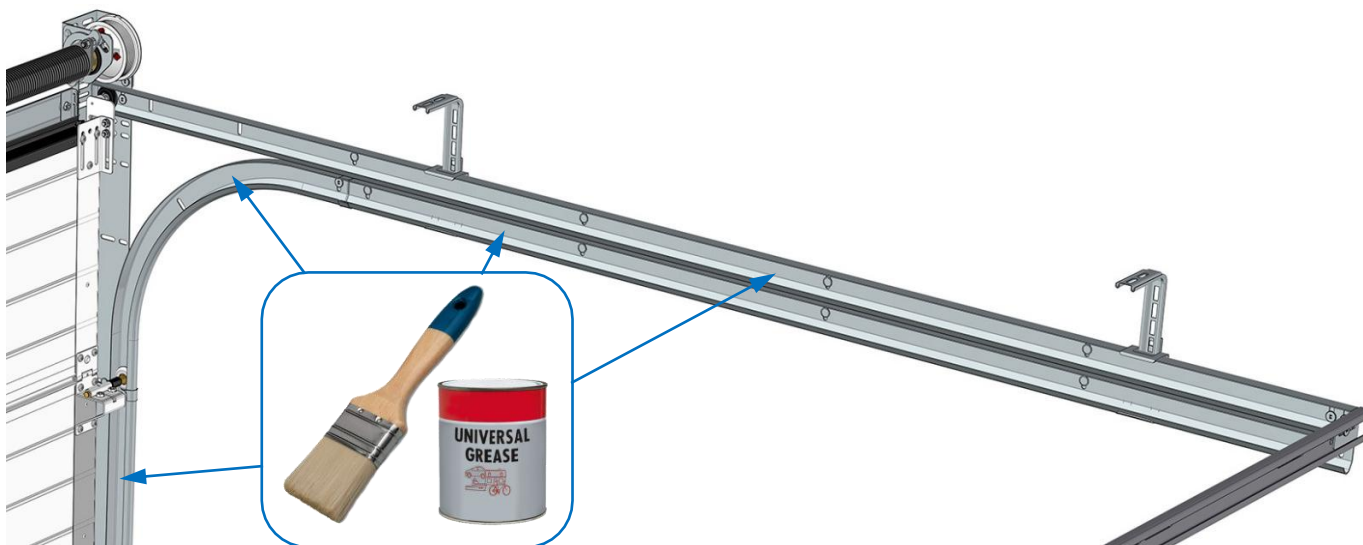
Weather seal (option)



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

Refer to manual: weather seal.

Greasing the bottom of the rails



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 panels are perfectly level.
- Check that the lateral seals have not been compressed and that the sealing of the door is even.

IMPORTANT:

If the door 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 door.

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.