

MOUNTING INSTRUCTIONS

PLUS60

VER.02-2017EN



In this handbook we are mentioning the instructions for the correct installation of our track system. This handbook is dedicated to be used by experienced and qualified technicians and it's not advisable for handymen or for using by unschooled personal.

The standard track system set is composed by following parts:

- * set of rails (vertical and horizontal)
- * necessary standard parts/ basic material for montage
- * fittings (hinges, wheels, etc.) from selected material
- * set of wires
- * torsion bar
- * torsion spring

Notice: Parts (bolts, etc.) required for mounting the tracks to the wall or for its hanging to the side wall or ceiling are not included.

Optional equipment

- * connecting/hanging profiles of horizontal rail set
- * upper sealing for montage to lintel

We are sure that you will successfully install the track system.

When you will have some questions or you will need to clear up any problem please don't hesitate to contact Kružík Ltd.

ATTENTION!

- ! **This handbook describes just the installation of the track system parts and it's necessary to complete it with instructions for the montage of any optional parts.**
- ! **Carefully read this handbook before beginning the installation.**
- ! **Some of the parts might be sharp or might have burrs. We recommend using protective gloves.**
- ! **All supplied parts are engineered for using with up-and-over doors.**
- ! **Through the tension the springs can put out heavy forces. Work carefully. Use proper equipment. Respect that you stay in a stationary position.**
- ! **By the installation ensure enough light. Remove obstructions and dirtiness. Ensure that there is no one to assist except the mounters on the installation place. Other persons (children) can be in the way through the installation and they could threaten themselves.**

Equipment necessary for correct and fast installation

Electro-tools

Drilling machine
Impact drilling machine
Aku-drilling machine
grinder

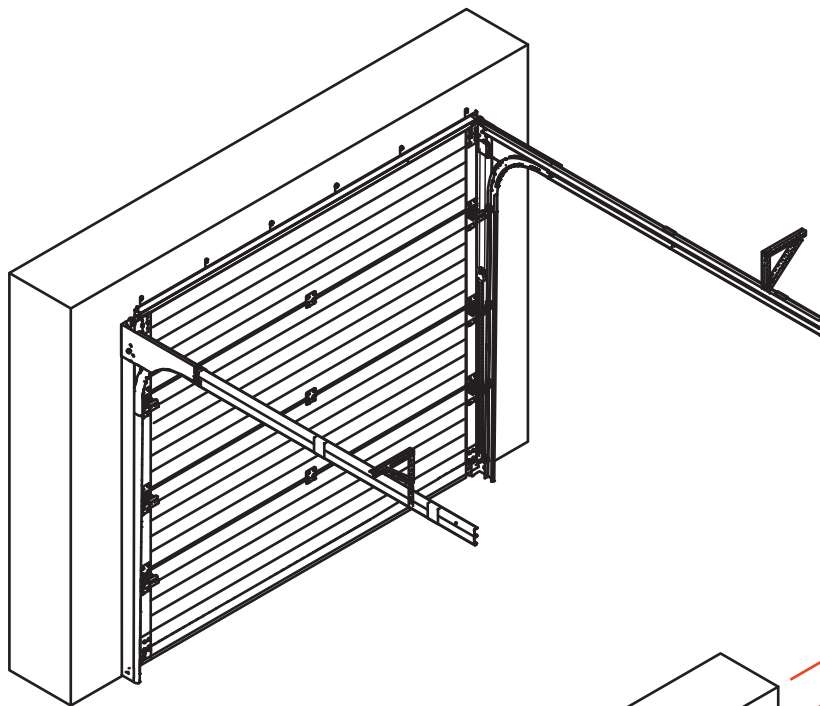
tools

o-keys 10, 13, 14, 15, 17 mm
gola set 10, 13, 17
set of imbus keys
nut 10, 13 mm + prolonged bits
adapter
combination pliers, gas pliers
hammer

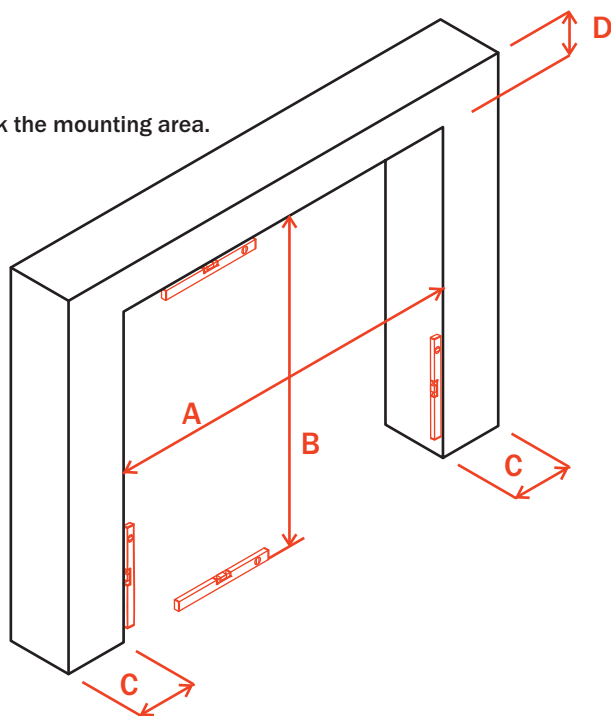
air level
yardstick
pencil
2× bar for springs tensing
rope
2 blocks, appr. 20 and 40 mm high
clips

The construction conditions on the site are for sectional private and industrial doors installation and their further flawless operation essential!

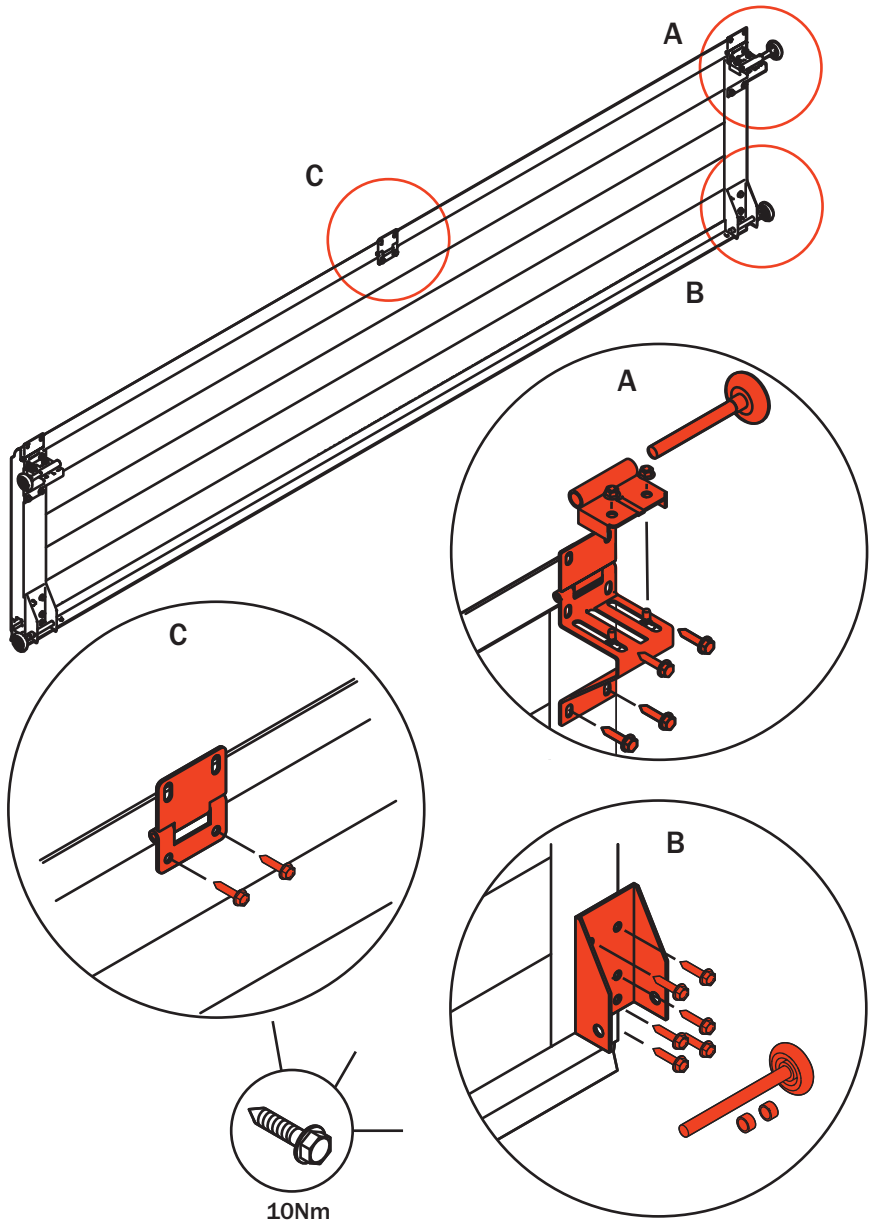
- surface flatness
- for the sectional door installation the surface has to be even (side room, headroom, floor). Maximal allowed flatness variations for side room and headroom are ± 1 mm, for the floor max. ± 3 mm at the entire width.
- masonry base for installation has to be solid and dry. In the mounting area is no electric wiring within the walls allowed.
- each larger unevenness of the mounting base can have a negative influence on the proper door operation. Use wall plugs with 12 mm diameter to fix the sectional doors in the masonry wall.



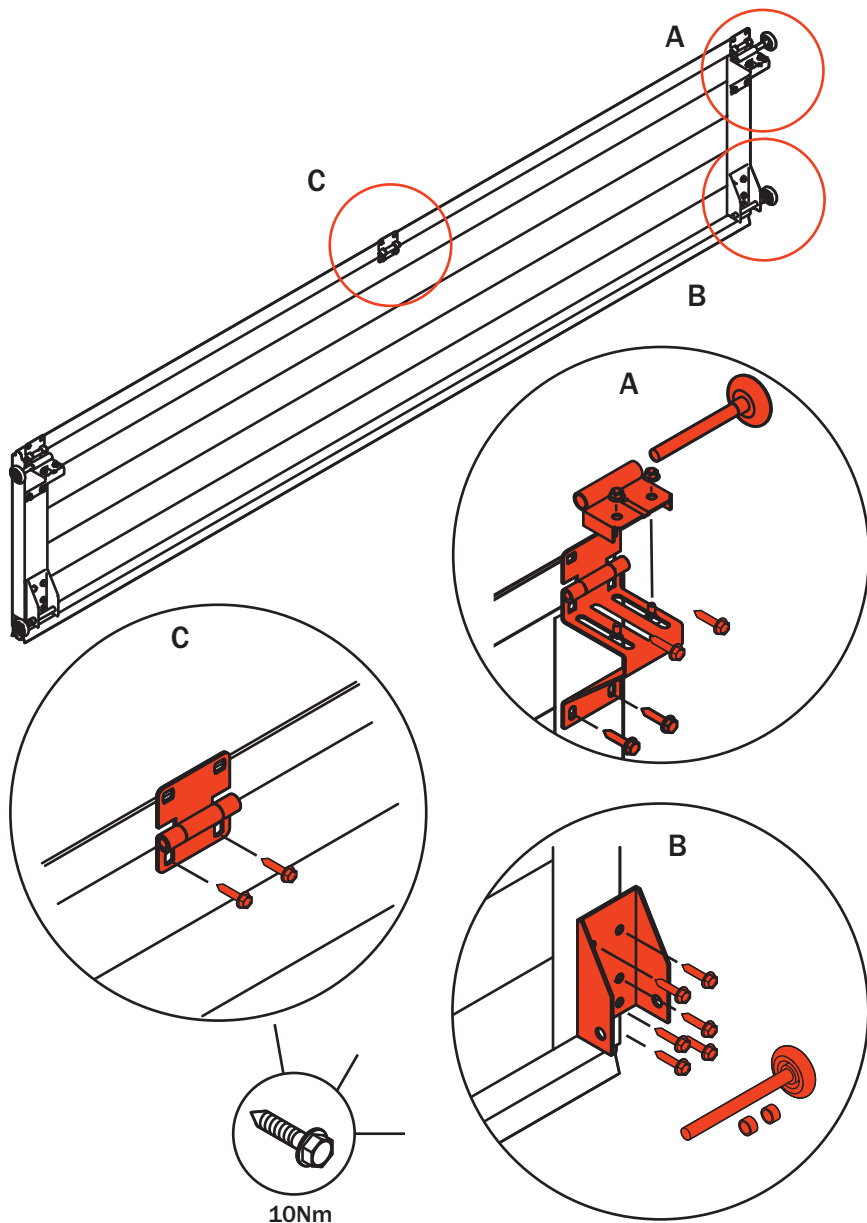
Prior to the installation check the mounting area.



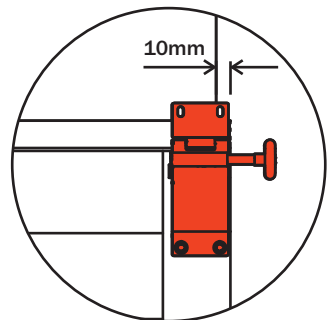
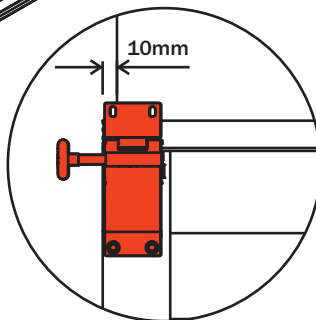
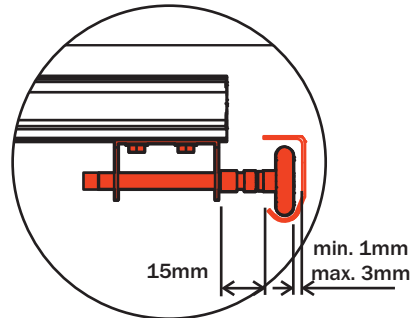
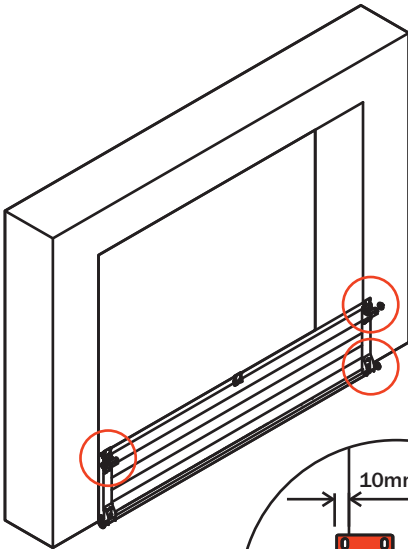
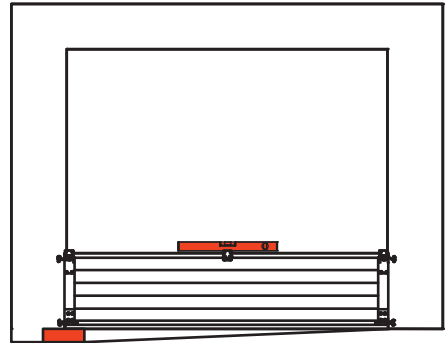
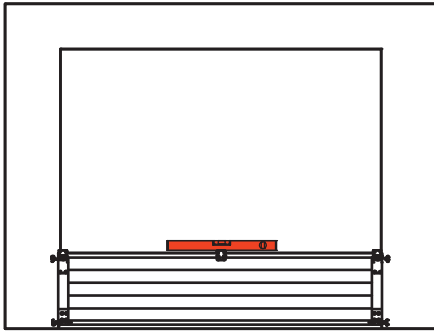
Installation of side hinges 25734, intermediate hinges 25733, slide a 15 mm spacer ring on the bottom roller and put it into the bottom hinge.



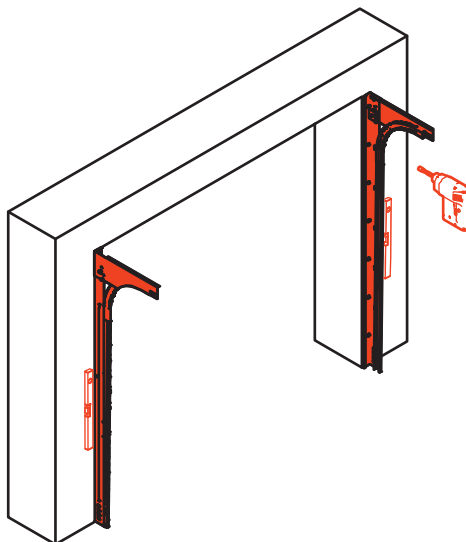
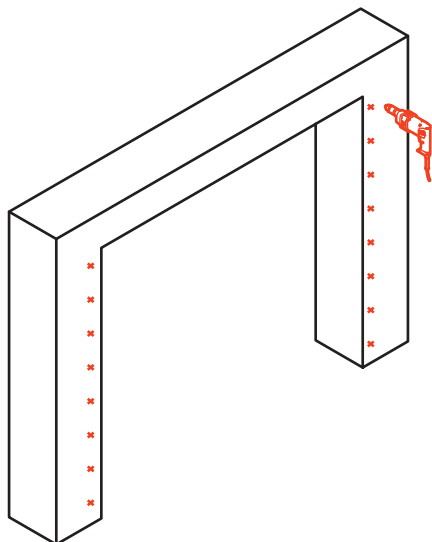
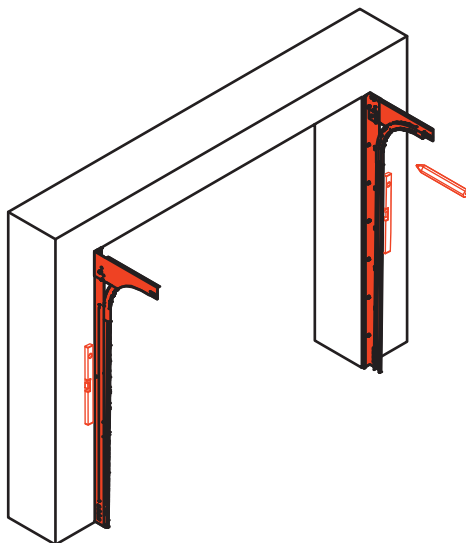
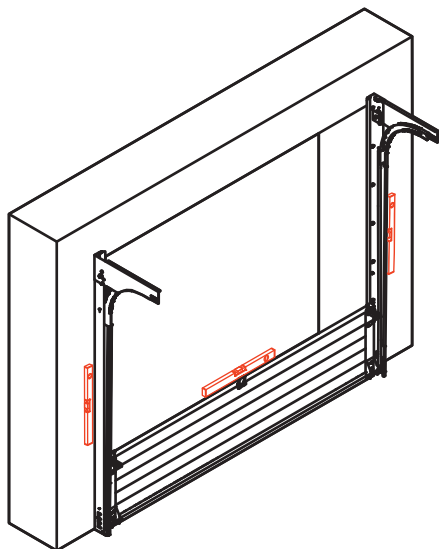
Installation of side hinges 450CZ+10, intermediate hinges 450HZ+10, slide a 15 mm spacer ring on the bottom roller and put it into the bottom hinge.



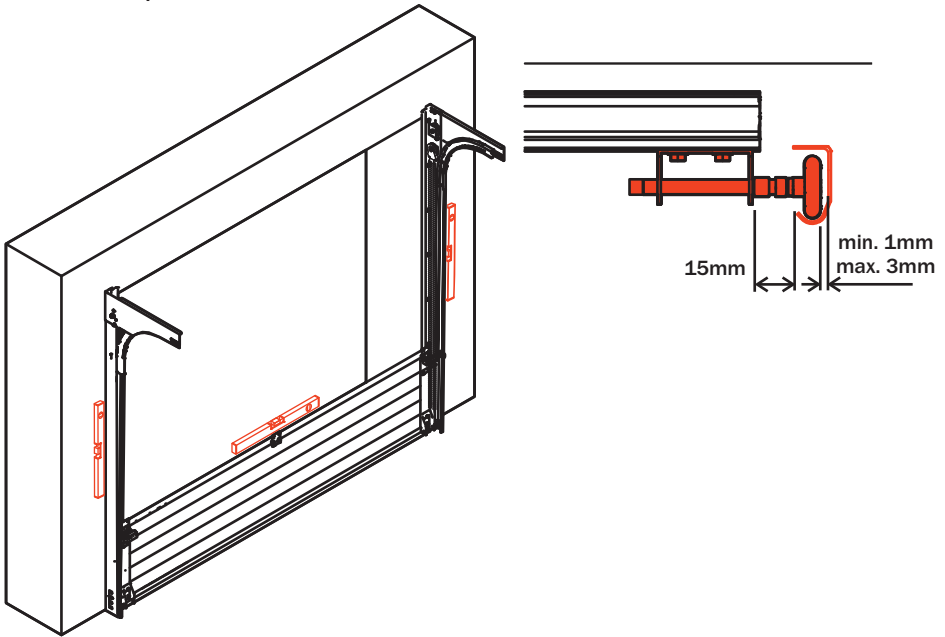
The section is to be inserted into the opening so that it laps over 10 mm on each side. Put the rollers into the side and bottom hinges. Put 145 mm long rollers into the bottom hinges with a 15 mm spacer ring put on. The section in the opening is to be balanced by an air level. In case the floor is not even it is important to ensure that one of the sides will be chocked. The bottom section rollers have to be put into the vertical rails. The room between the bottom roll and the vertical rail has to be at least 1 mm and max. 3 mm. If necessary chock also the vertical rail in the same way as the bottom section.



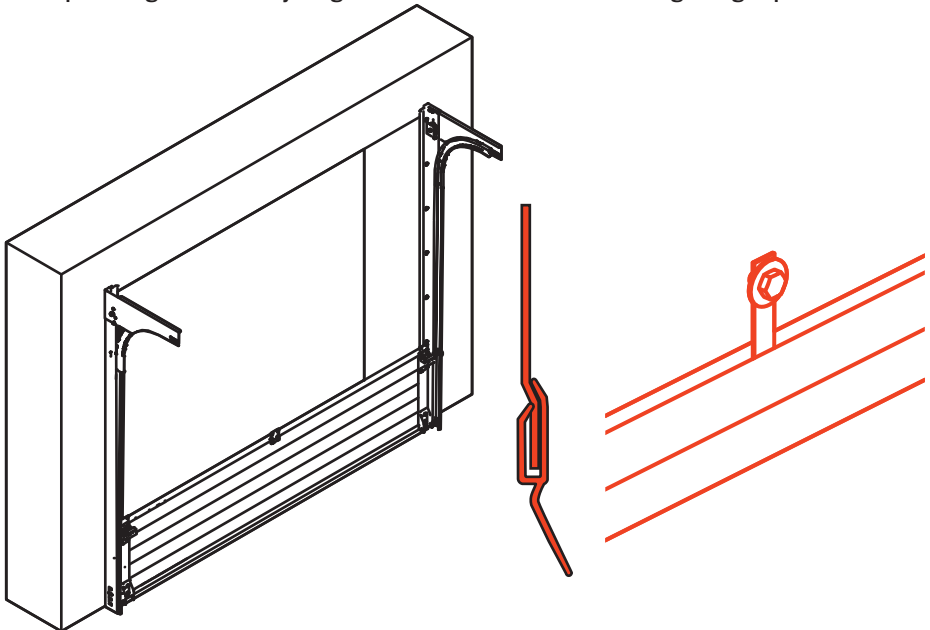
The marked openings will be drilled by a 12 mm drill, the wall plugs come inside.

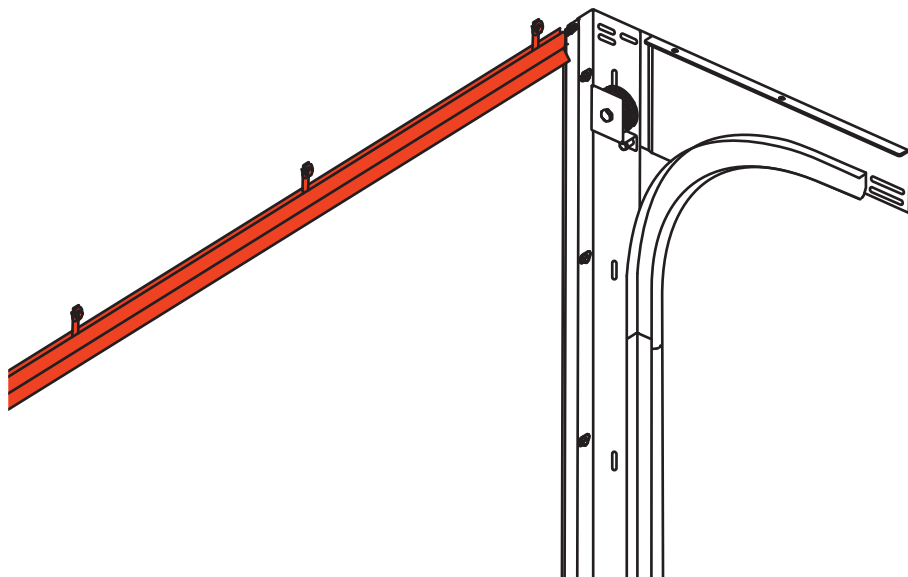


Fix the vertical rails to the wall, put in the bottom section. The play between the bottom roller and the vertical J-profile has to be $1\div 3$ mm.

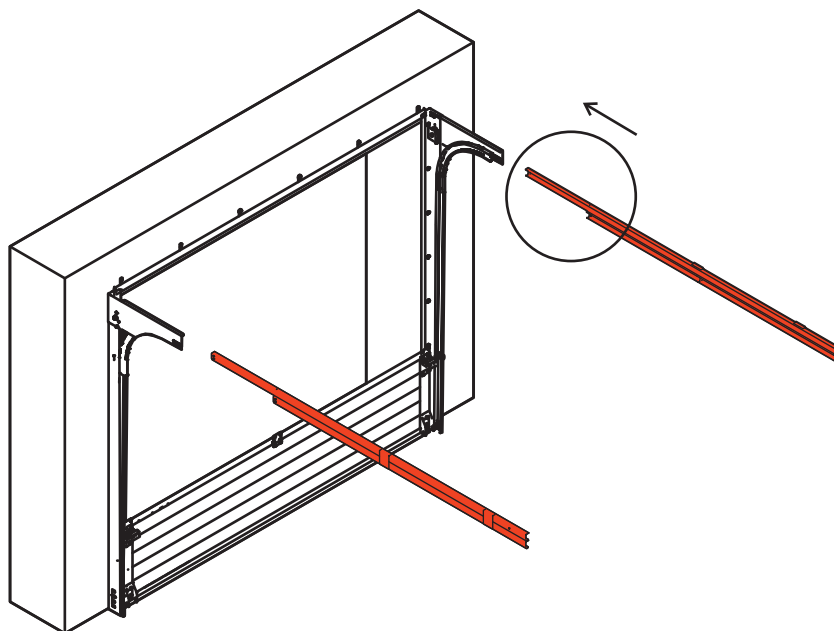


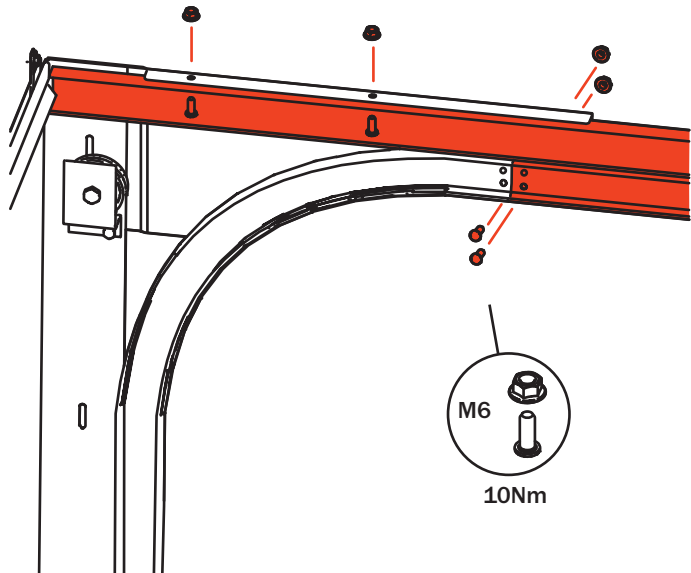
Cut the top sealing to necessary length and fasten them to the walling using clips.



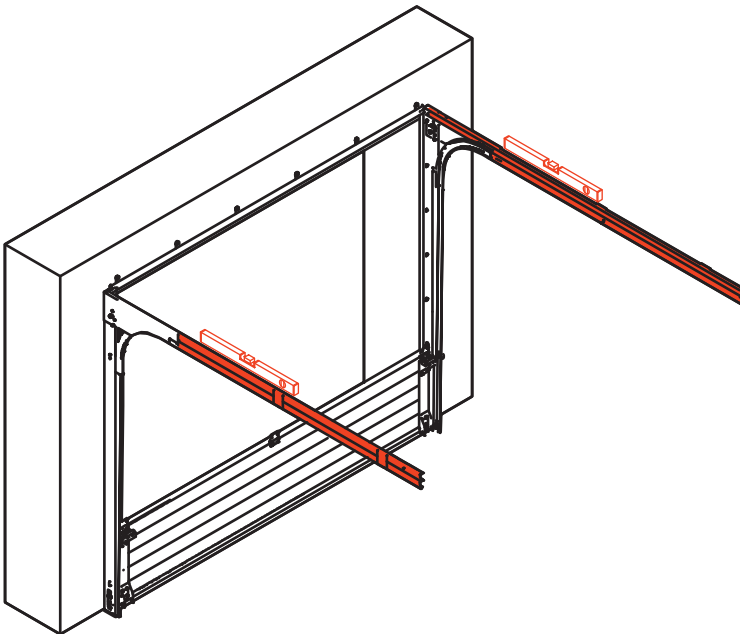


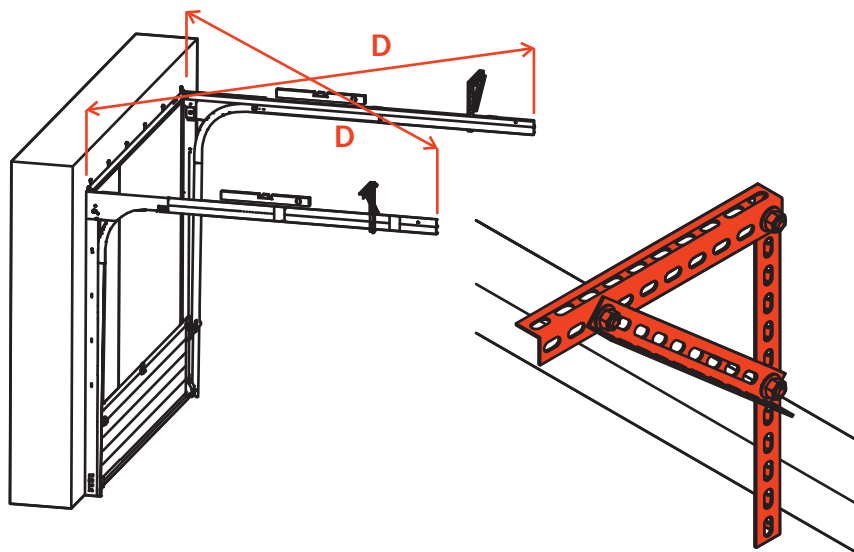
Put the horizontal rail into the vertical rail and fasten it with flathead bolts M6.



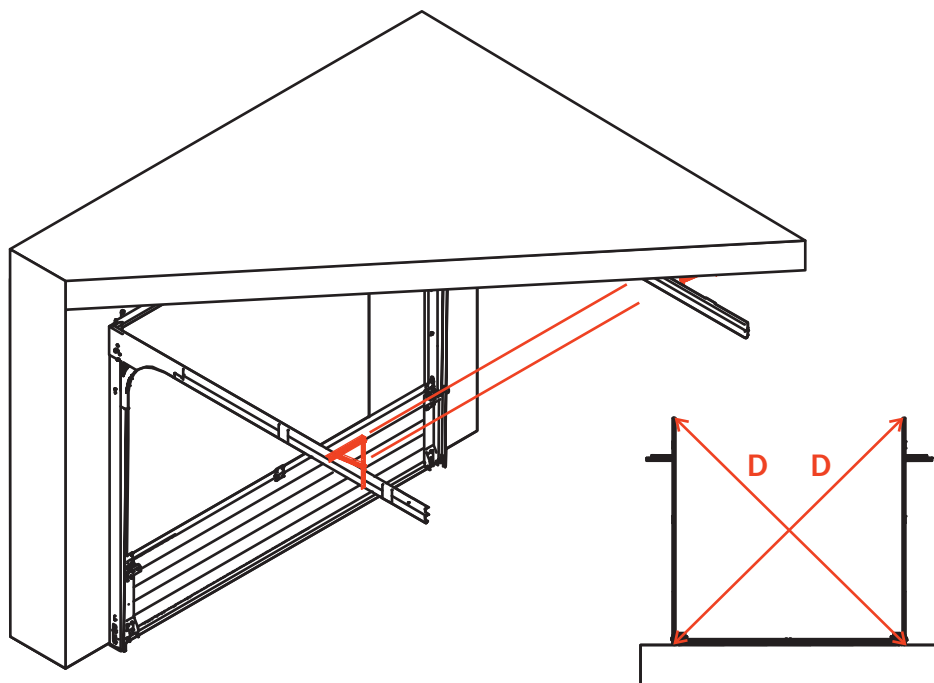


Balance the horizontal rail by an air level.



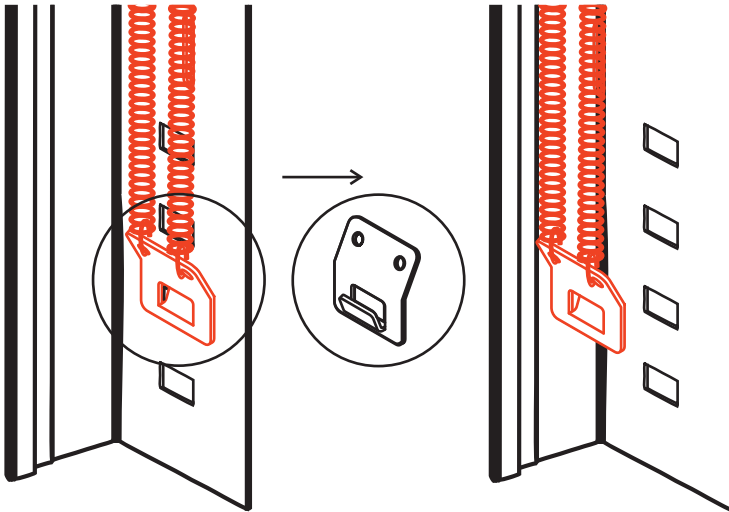


With a perforated mounting profile fix the horizontal rails to the ceiling. Then inspect the diagonals, in case of necessity adjust the horizontal rails so that the diagonals are equal.

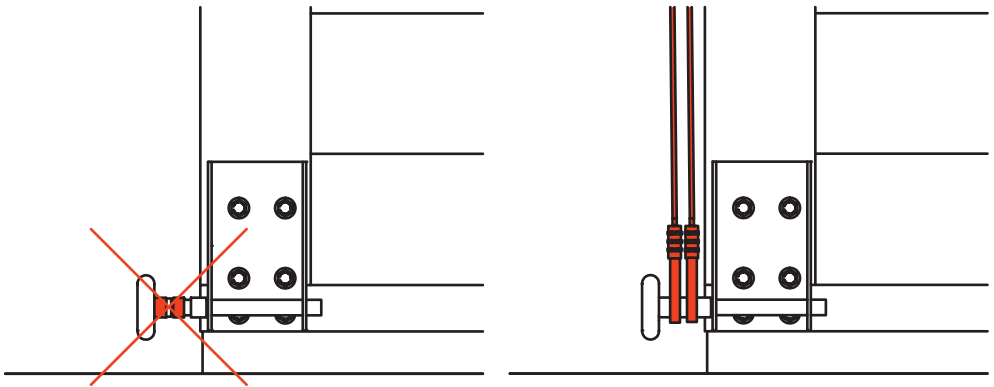


Wires installation

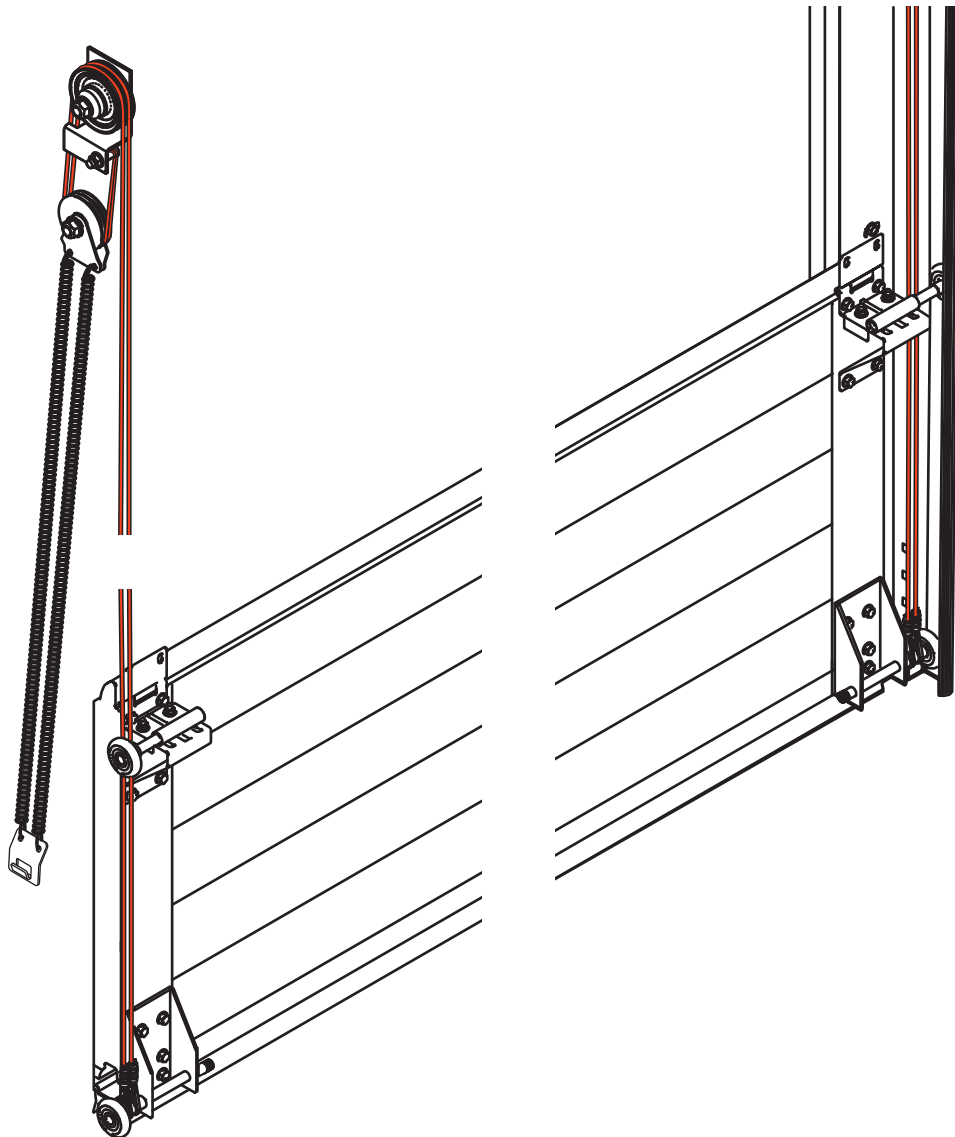
Unhook the springs from the vertical profile by pulling it down.



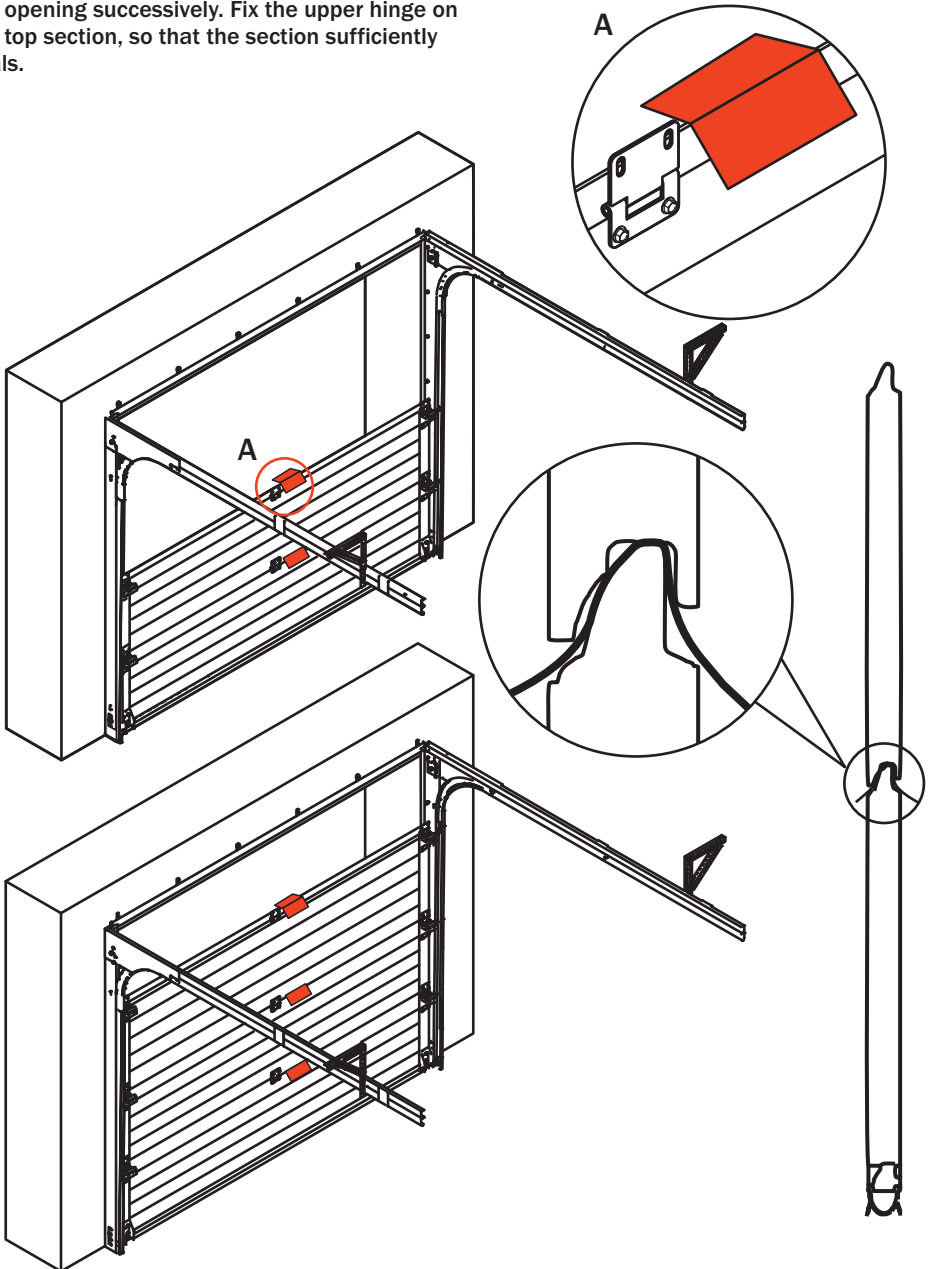
Unscrew the bottom hinges from the bottom section. Slide off the spacer rings, put on the steel wire. Put the rollers into the J-profile and screw the hinges on.

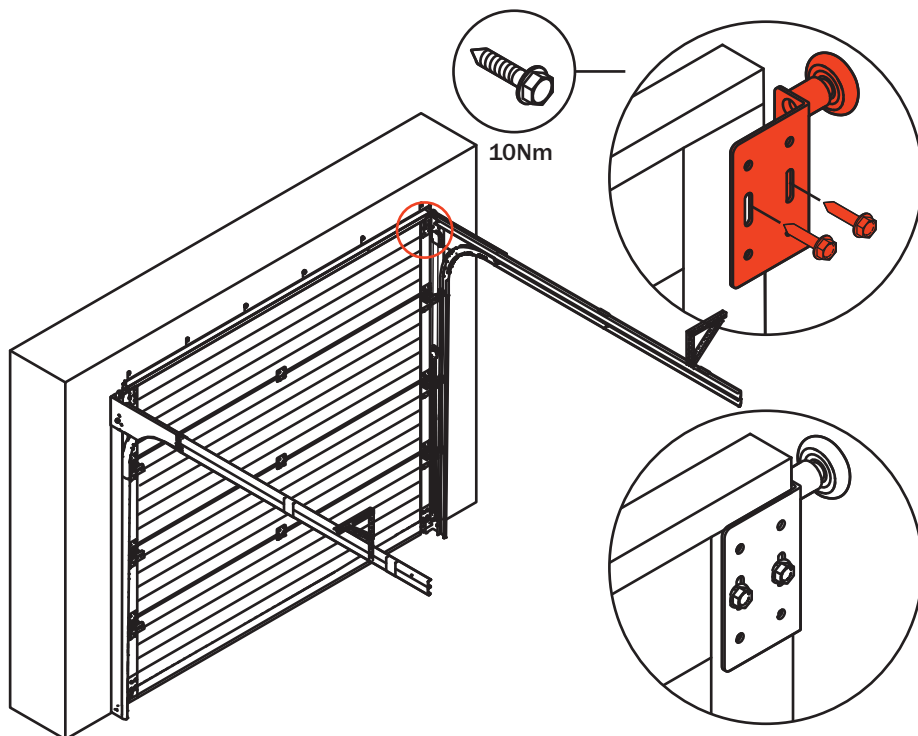


Let the extension spring hang freely in the vertical rails.

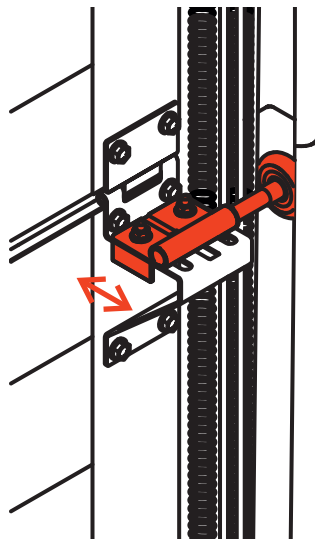
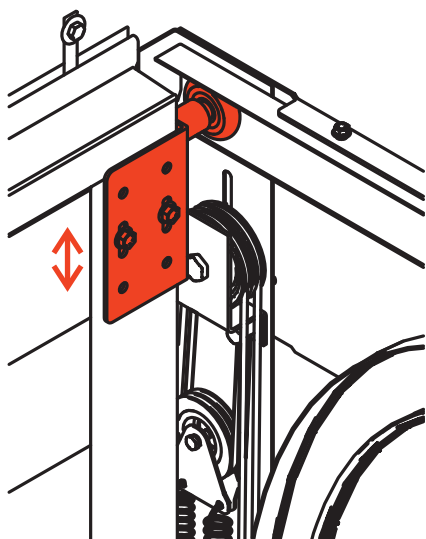


Distance washers should come in between the sections to each hinge (if included in the scope of delivery – only for certain panels), after lifting the door they will be removed. The sections 2,3 and top section come into the opening successively. Fix the upper hinge on the top section, so that the section sufficiently seals.

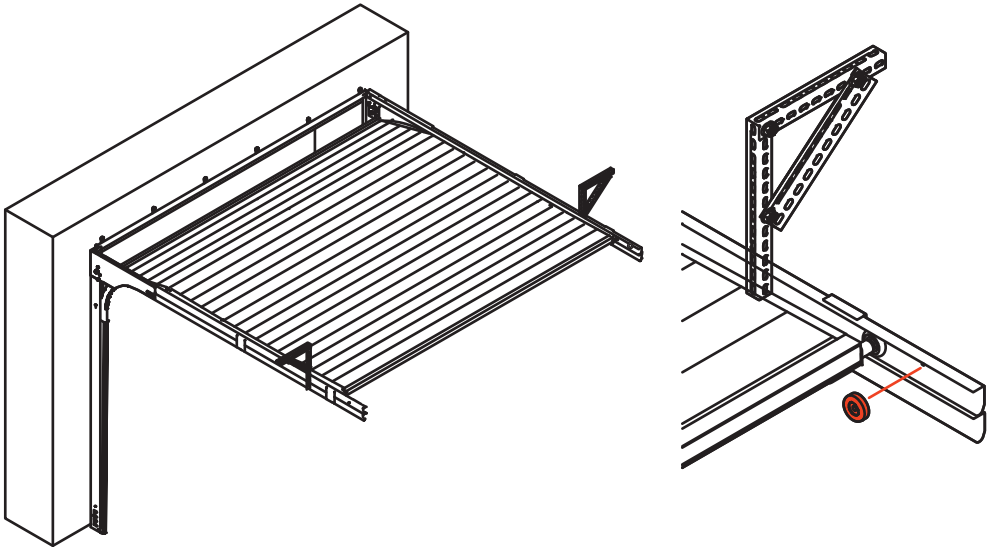




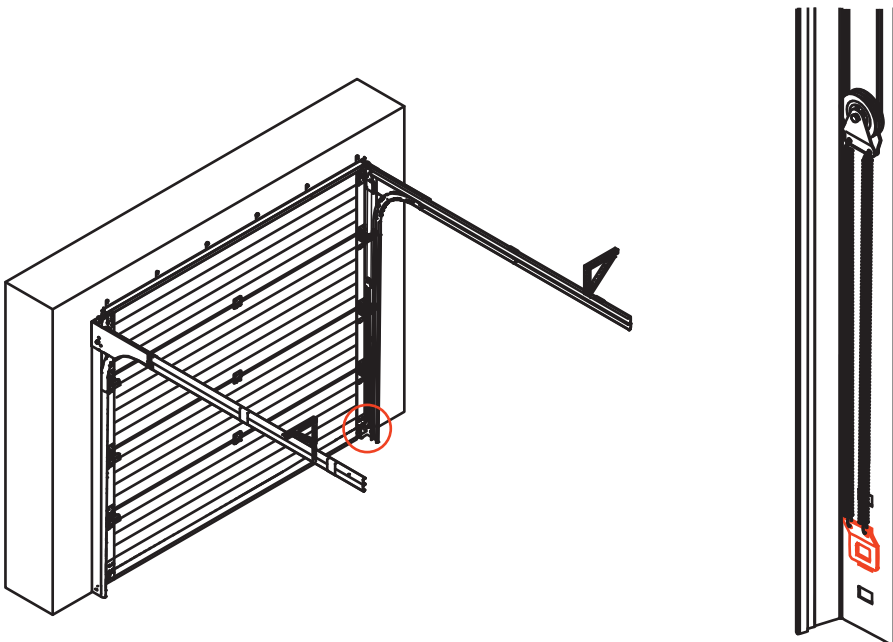
The side hinge will be adjusted, so that between the section and the side sealing there is a free motion of 1 mm. Tightening the top section can be made by adjusting the upper hinge upwards or downwards.



After opening the door to the top position fix it against falling down. Then the rubber backstop will be mounted into the horizontal rails.



Stretch the springs and hook the clip again onto the vertical rail. Unfix the door leaf and close it slowly. If the door doesn't run smoothly shift the clip up or down until the door is well balanced.



Instructions for demounting

The sectional door has to be closed before demounting!!!

Don't do demounting works until you don't cushion the torsion springs!!!

1) Torsion bars cushioning

First put the tension rod into the spring head and than disengage release the ensured screw on the torsion spring. Cushion the torsion spring and turn the spring head in its power wise until the spring power stops acting. For spring cushioning of garage doors we need two tension rods with a diameter 11,5mm and for industrial doors with a diameter 16mm.

2) Panel demounting

After the spring cushioning begin to demount the top, middle and side hinges. Begin to demount always from the top panel. After demounting the hinges on the panel remove it immediately. Repeat this procedure for all panels. Unscrew the winding wire by the lower panel hinge and also remove this section.

3) Demounting of torsion springs, drums and torsion bars

Disengage the ensured screws on the drums and the ratchet-wheel of spring break protection. Than unscrew the torsion springs from the spring break protections. In case of two shafts demount the coupler. When using an industrial door opener, it has to be demounted from the torsion shaft before removing the shaft. Move the shaft to one side to pull it out of the spring break device. Than take it down from the console.

4) Demounting the console and the spring break device

After demounting the torsion shaft demount the spring break devices and the consoles from the lintel.

5) Demounting the horizontal tracks

Unscrew the perforated mounting profiles from the ceiling and also the screws connecting the horizontal and the vertical tracks.

6) Demounting the vertical tracks

Unscrew the vertical tracks from the door opening.



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