

USER MANUAL GARAGE DOOR RF80



1. Guarantee conditions

The manual has been prepared to be used by qualified workers and cannot be used by people who are not entitled. Should any questions or doubts occur, you are requested to contact company.

The manual presents correct way of montage of garage door hardware only. In order to assembly a garage door with sandwich panel and other devices, the producer should follow manuals of the sandwich panel and other devices. The sandwich panel and other devices should be produced according to European Union rules.

2. Assembly conditions

Unprofessional assembly, any variations of the assembly that are not in accordance with this manual, will be made on the garage door Producer's responsibility.

This also applies to any damages caused by improper use and not following the rules of this manual as well as improper service.

The system presented in this manual should be used in residential buildings only and can be assembled and run by qualified workers only.

- Make sure that during working with electric devices the power is off.
- Security devices should never be switched off!
- Be careful in case of keen edges, use gloves.
- If visible damages of sectional door occur, stop further using of the door.
- While assembly/maintenance of the door it is recommended to always use gloves and protection shoes, and during drilling use the protection glasses.
- Mark out the place of working with a tape so that the children and other people keep a distance.
- It is recommended that maintenance to be carried out by a professional (company or person).
- Provide proper lightning.
- Use the suitable tools, especially for springs torsion.

3. Range of use

Garage door hardware has been designed for use in residential buildings only.

- Max. garage door width: 5000 mm
- Max. garagedoorheight: 3000 mm
- Max. garage door weight: 160 kg

4. Material used to assembly garage door in the building

Fastening materials for assembly of garage door in the building aren't included in door elements set. Assembling person is obligated to use the suitable connecting materials, that connect the door construction with lintel.

5. Assembly set

- Track set (vertical and horizontal)
- Spring breakdevice
- Assembling elements of panel, according to used option (hinges, brackets etc.)
- Steel cables
- Tubularshaft
- Springs with fittings
- Perforated angle or underslung brackets system
- Box with screws, bolts and other fastening elements.

6. Assembly tools

Tools necessary for proper and quick installation:

- driller with drill of 8.0mm
- flatwrench10 mm,
- flatwrench 13 mm,
- pass-key,
- clamp,
- suspension line,
- level,
- assemblydrawings.

7. Control and service just after assembly

When assembly is finished worker should control if all elements are connected in accordance with the manual:

- lubrication of bearing brackets and rollers,
- lubrication of hinges,
- lubrication of steelcable,
- placement of Identification Card and required warning labels.

8. Passing the finished product to customer

Producer of door passes it to a user and shows him the way of working of the product, teaches him how to use the door and provide the following documents:

- manual of use and service,
- instructions what to do in case of incorrect working of door.

9. Garage door maintenance and overview

Door overview shall be signed in Door Service Book. After 3 months since door assembly, assembling person (service person) makes:

- visual control of all elements,
- control of proper door operating and tighten the fasteners if needed.

After 6 months or after 700 cycles the user shall:

- remove impurities from door that have influence on correct working of door,
- lubricate the bearings and rollers,
- lubricate the hinges.

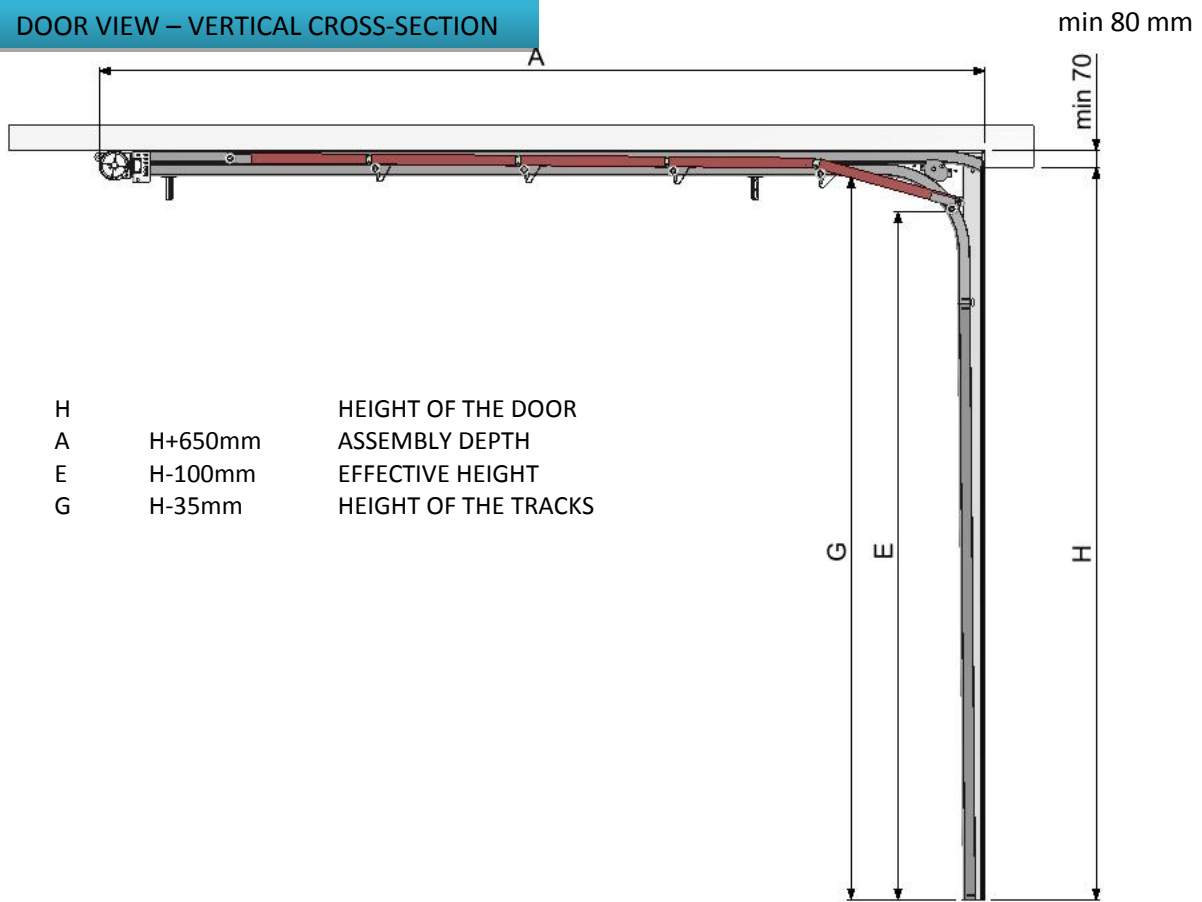
After 12 months since assembly repairer (assembling person) shall control and maintenance of proper door operating:

- roller (damages, materialconsumption, lubrication),
- control of steel cables consumption, especially connections with cable drums and bottom brackets and working places of cable pulleys if applied,
- control of cable pulleys consumption, if applied,
- spring breakdevicecontrol,
- control of vertical track connection with ceiling,
- control of shaft brackets and spring breaking devices,
- control of seals consumption, and damages
- control of shaft coupler, if applied.

10. Garagedoor operator

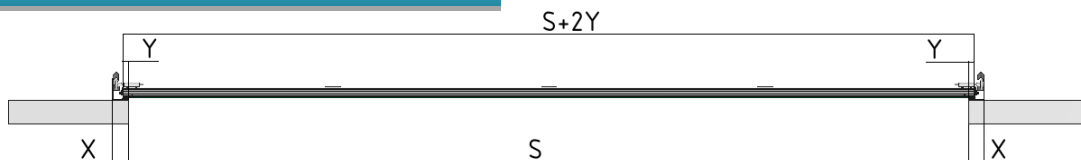
All electric devices (including operators) that are a part of garage door shall fulfill requirements of European Union standards. Assembly of operator shall be made in accordance with producer manual. In case of lack of power supply or if there is no separate entrance into the garage, door shall be equipped with drive releaser.

DOOR VIEW – VERTICAL CROSS-SECTION

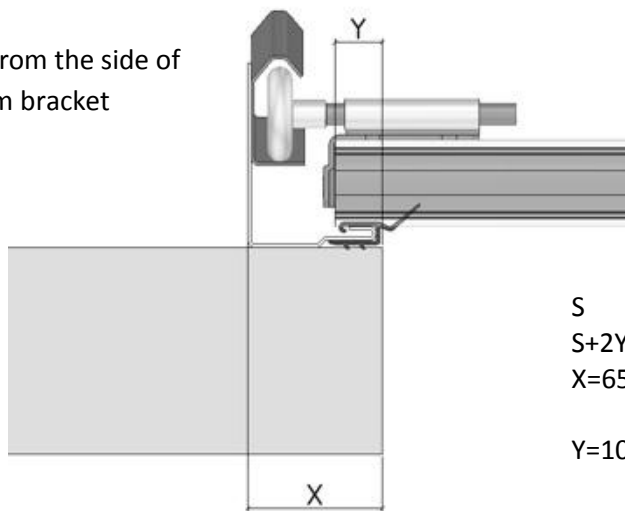


- | | | |
|---|---------|----------------------|
| H | | HEIGHT OF THE DOOR |
| A | H+650mm | ASSEMBLY DEPTH |
| E | H-100mm | EFFECTIVE HEIGHT |
| G | H-35mm | HEIGHT OF THE TRACKS |

DOOR VIEW – HORIZONTAL CROSS-SECTION

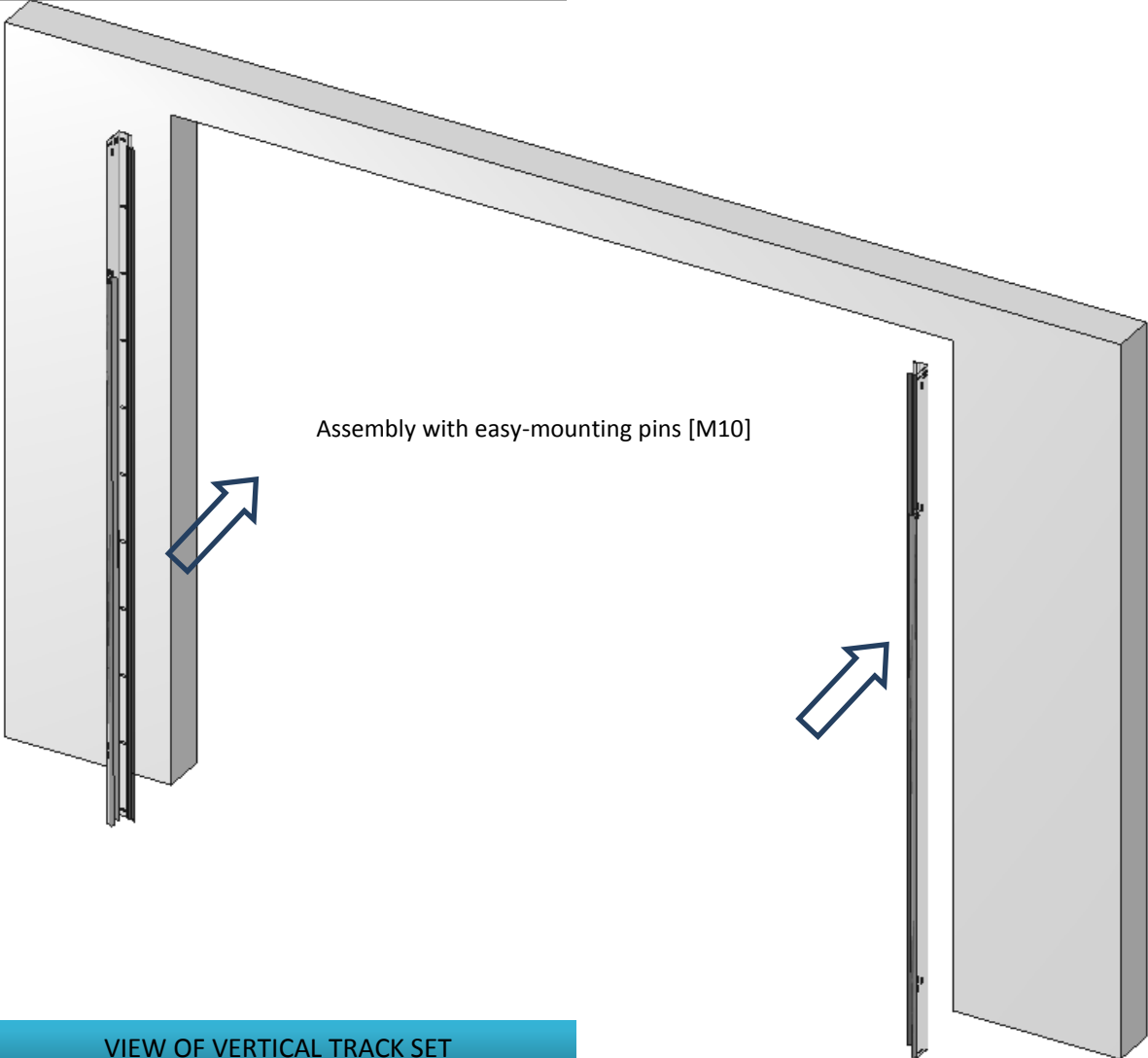


View from the side of bottom bracket

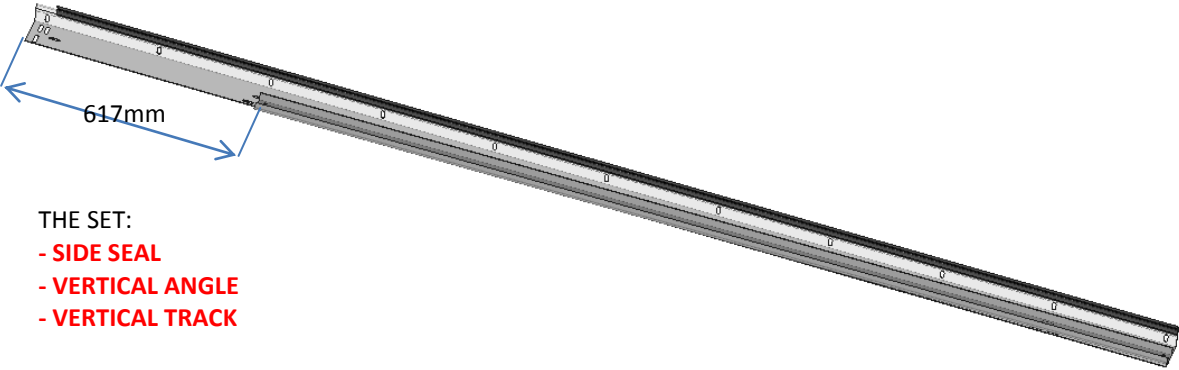


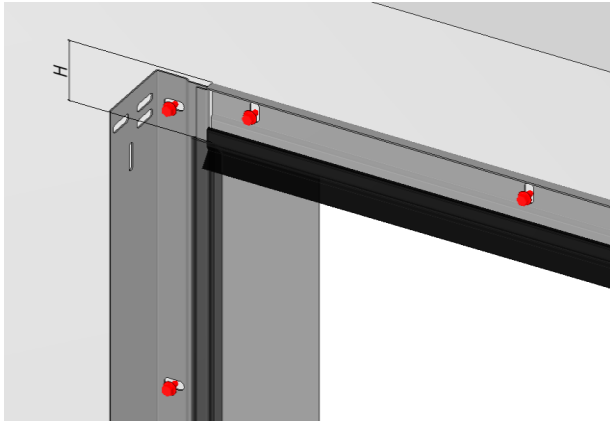
- | | |
|----------|--|
| S | WIDTH OF THE DOOR |
| S+2Y | WIDTH OF THE PANEL SECTIONS |
| X=65mm | ADJUSTMENT OF THE ANGLE FROM THE WALL EDGE |
| Y=10,5mm | DOOR PANEL ADJUSTMENT |

ASSEMBLY OF VERTICAL TRACKS SET



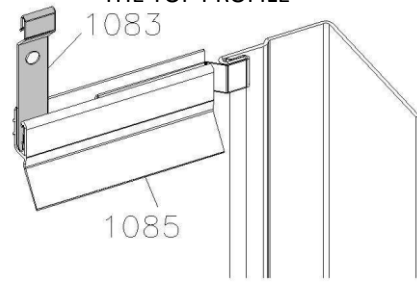
VIEW OF VERTICAL TRACK SET



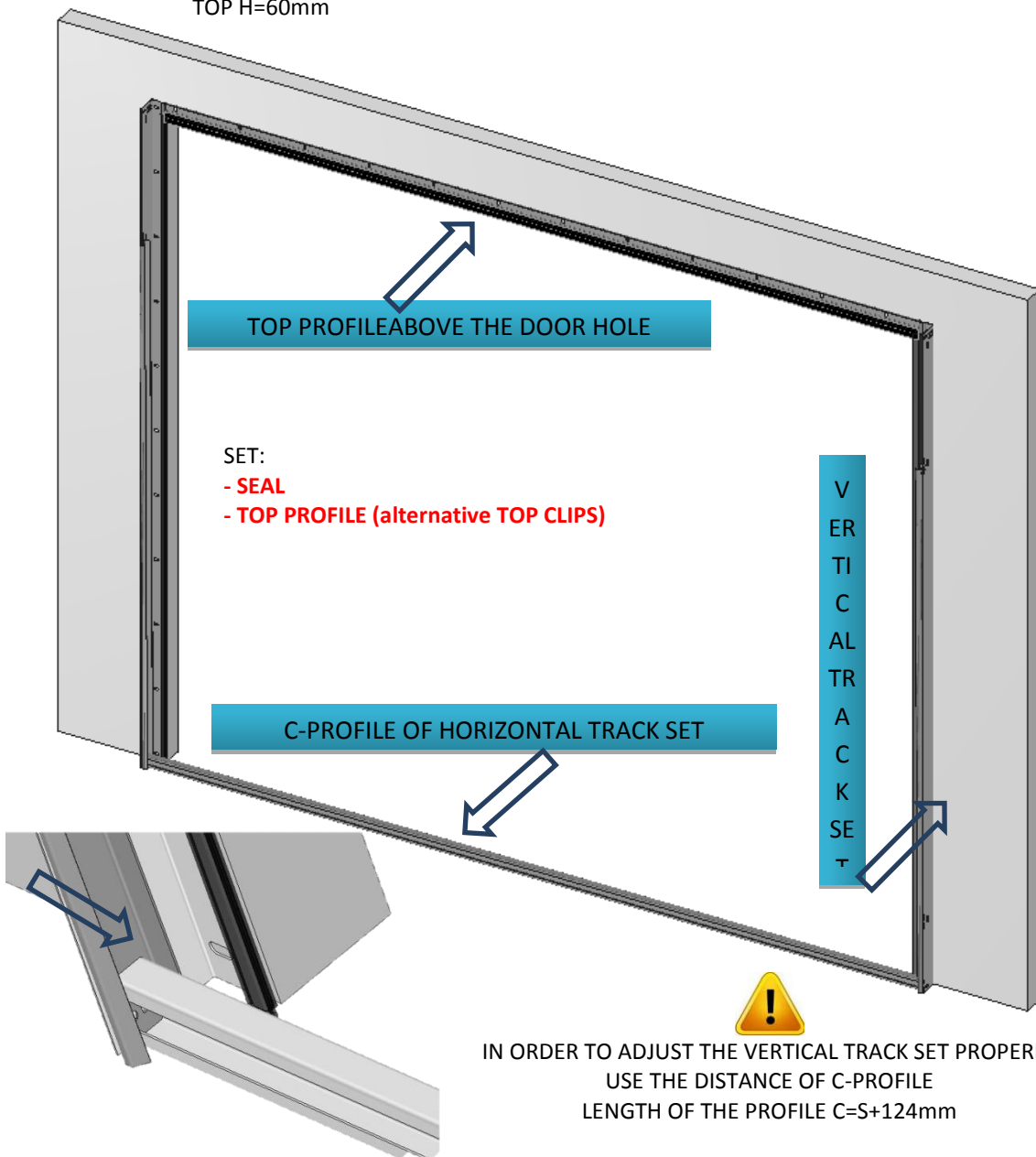


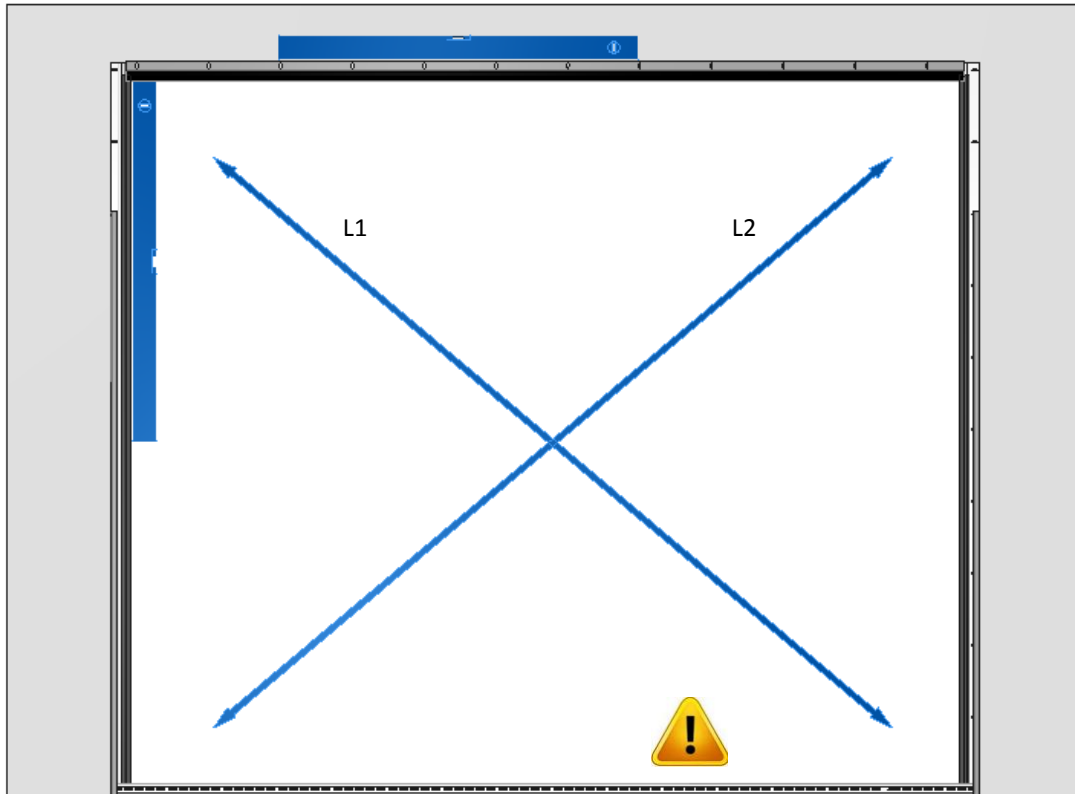
TOP PROFILE TO BE MOUNTED PRECISELY ON THE LEVEL OF THE VERTICAL ANGLE
CUT THE SEAL ON THE VERTICAL ANGLE FROM THE TOP H=60mm

ALTERNATIVE ASSEMBLY THE TOP SEAL ON THE TOP PROFILE



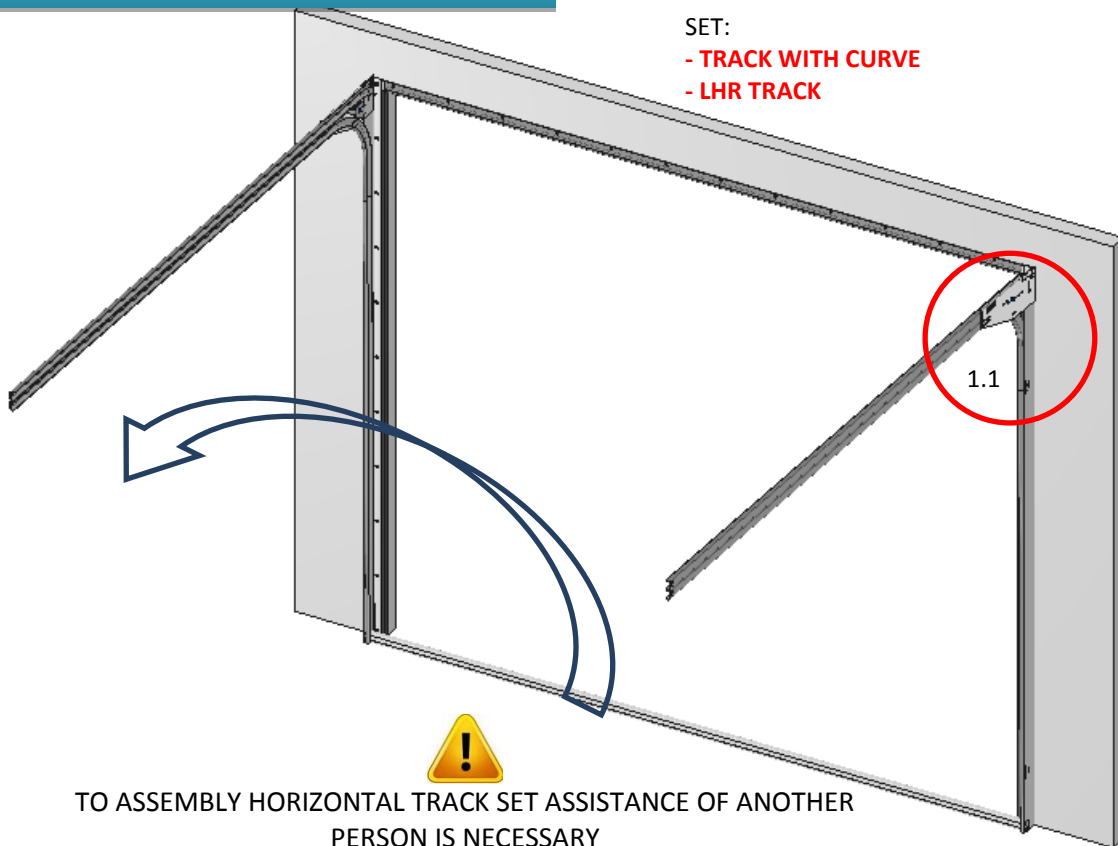
TOP SEAL





BEFORE TIGHTENING CHECK ALL VERTICAL AND HORIZONTAL ADJUSTMENTS AND LENGTHS OF DIAGONALS $L1=L2$

ASSEMBLY OF THE HORIZONTAL TRACK SET



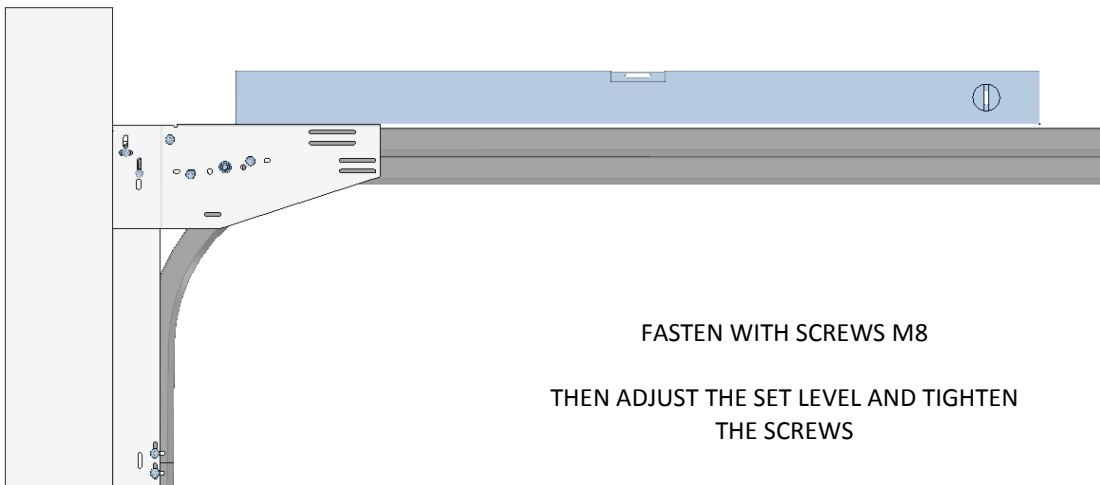
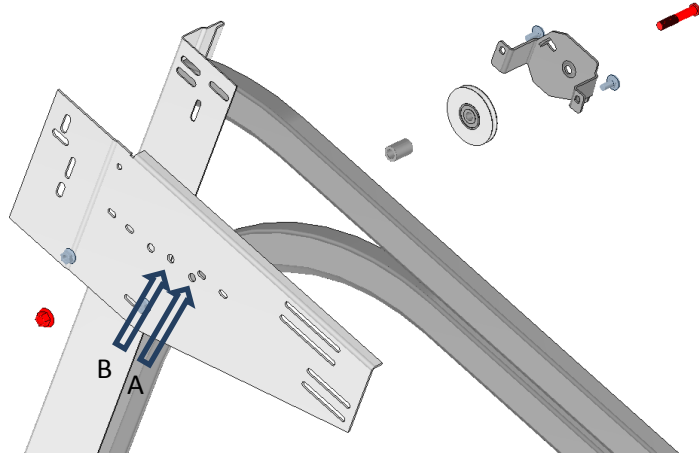
SET:
- TRACK WITH CURVE
- LHR TRACK

TO ASSEMBLY HORIZONTAL TRACK SET ASSISTANCE OF ANOTHER PERSON IS NECESSARY
ATTENTION

MOVE THE C-PROFILE TO THE END OF HORIZONTAL TRACK SET

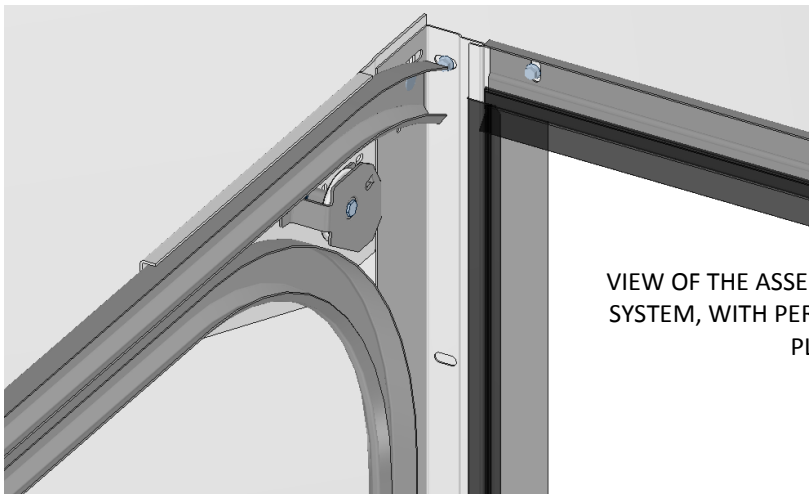
1.1
MOUNT ASSEMBLY SET FOR RF80

FASTENING OF PULLEY AND PULLEY BRACKET TO CONNECTION PLATE
The connection plate contains 2 holes (A, B) which serve to montage of the pulley.
Selection of the hole to be made as follows:
A – for doors of width up to 3000mm
B – for doors of width up to 3000mm with a motor



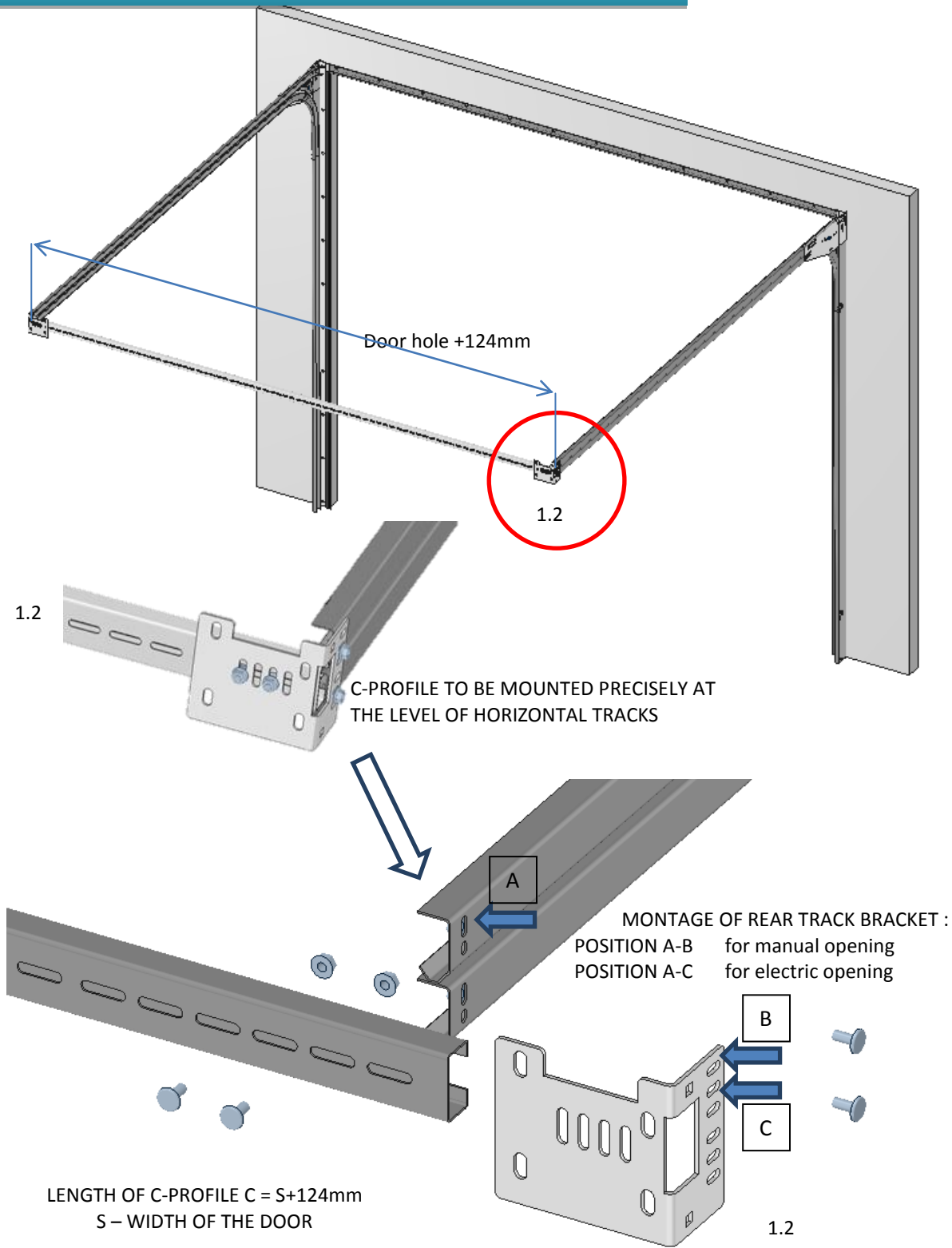
FASTEN WITH SCREWS M8

THEN ADJUST THE SET LEVEL AND TIGHTEN
THE SCREWS

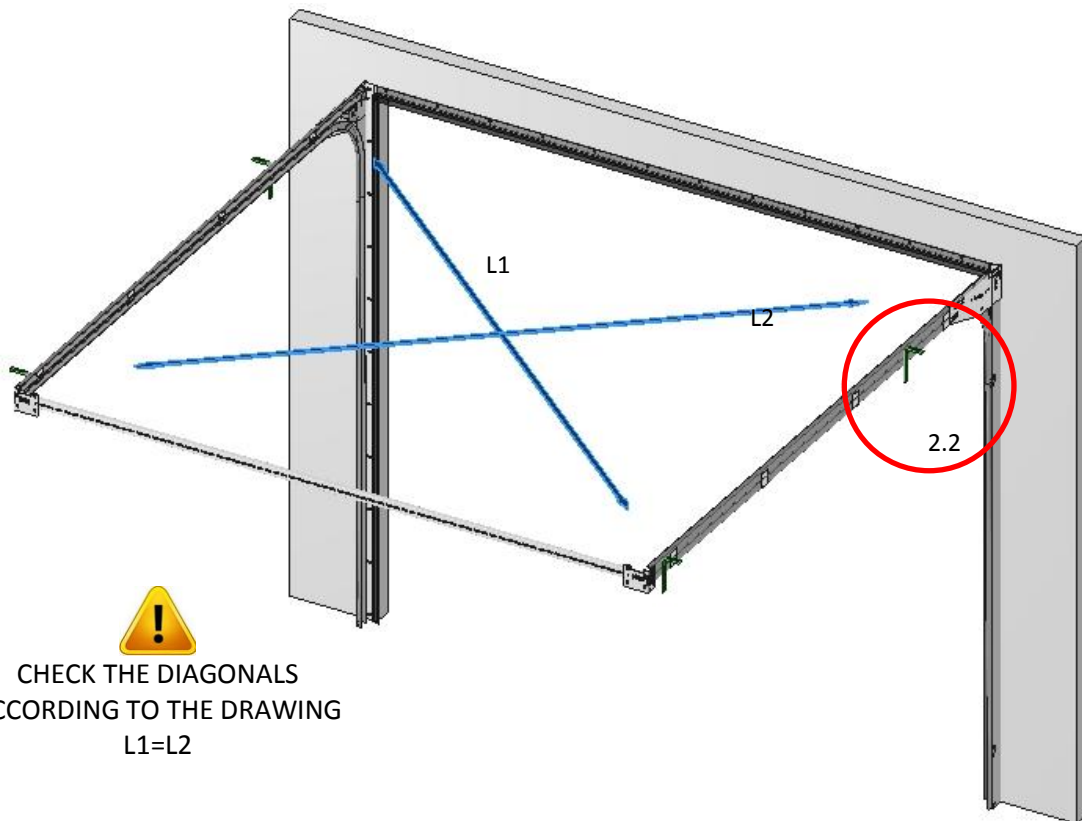


VIEW OF THE ASSEMBLED SET FOR RF80
SYSTEM, WITH PERFORATED ASSEMBLE
PLATE

ASSEMBLY OF C-PROFILE AT THE END OF HORIZONTAL TRACKS



ASSEMBLY OF MOUNTING PROFILE WITH HORIZONTAL TRACKS

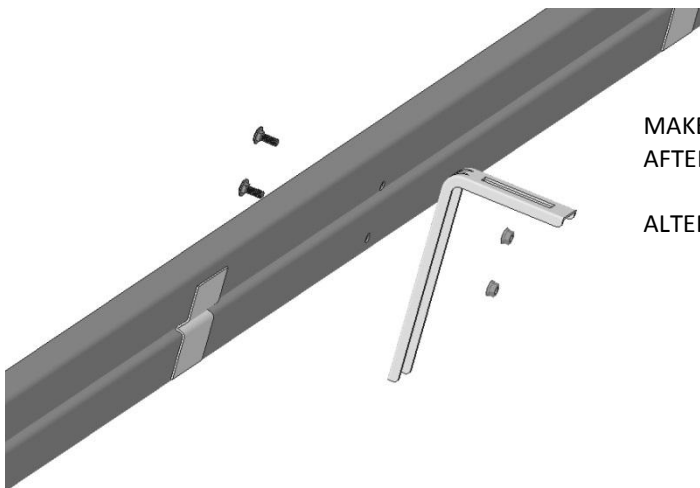


CHECK THE DIAGONALS
ACCORDING TO THE DRAWING
L1=L2

2.2



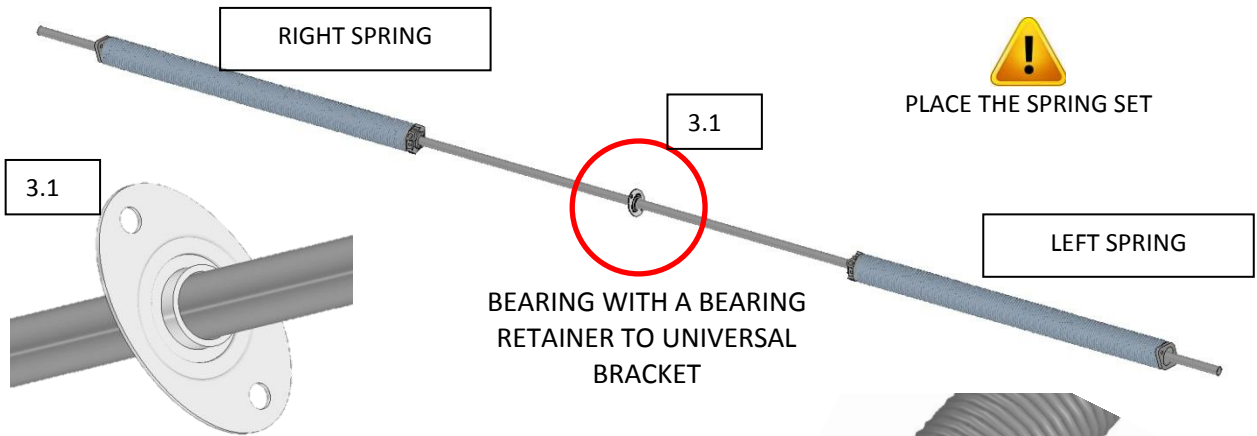
MAKE THE HOLES $\phi 8$ IN THE CEILING IN
ORDER TO FIX THE MONTAGE PROFILE
TO THE TRACKS



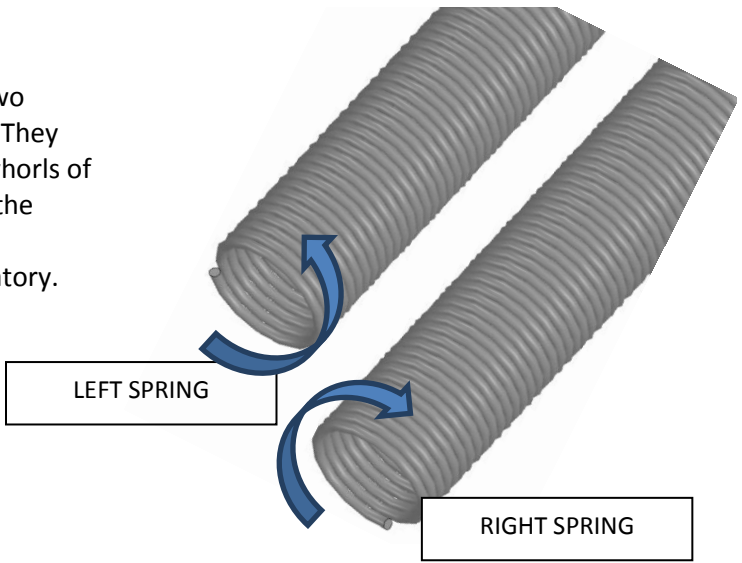
MAKE THE HOLES $\phi 8$ IN THE TRACKS
AFTER LEVEL ADJUSTMENT TIGHTEN WITH SCREWS

ALTERNATIVELY USE MOUNTING SYSTEM

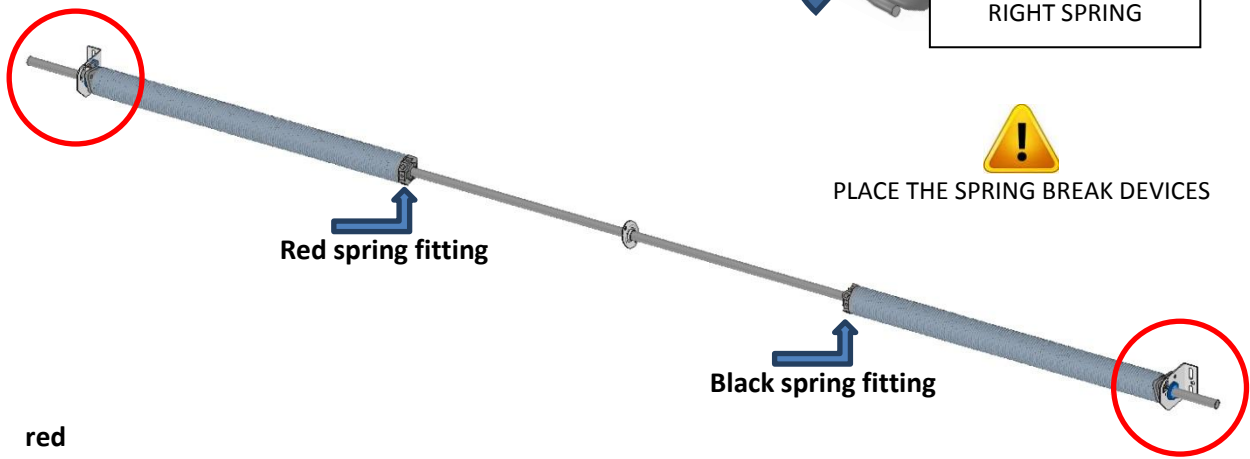
ASSEMBLY OF THE SHAFT – INTERIOR SIDE SIDE VIEW



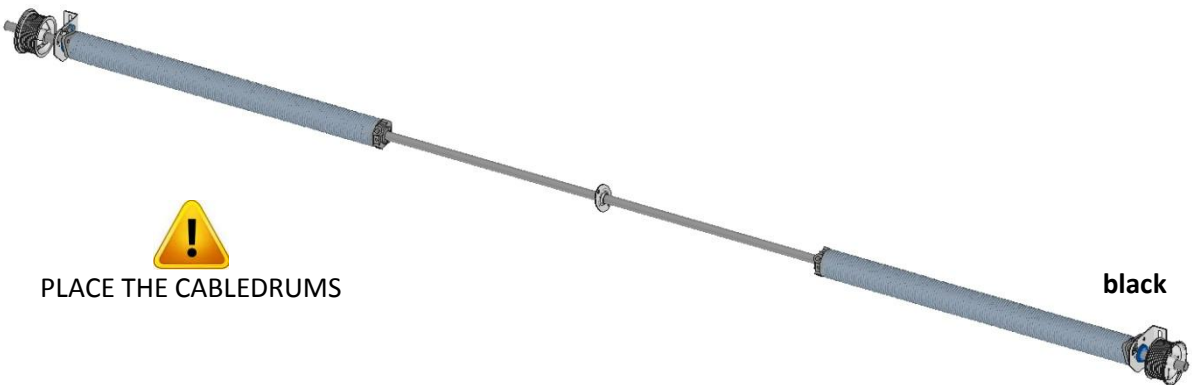
Torsion springs are available in two types: dextrorotary and laevorotary. They can be distinguished by direction of the whorls of the spring. In case the clockwise whorls, the spring is dextrorotary. In case of counterclockwise, the spring is laevorotary.

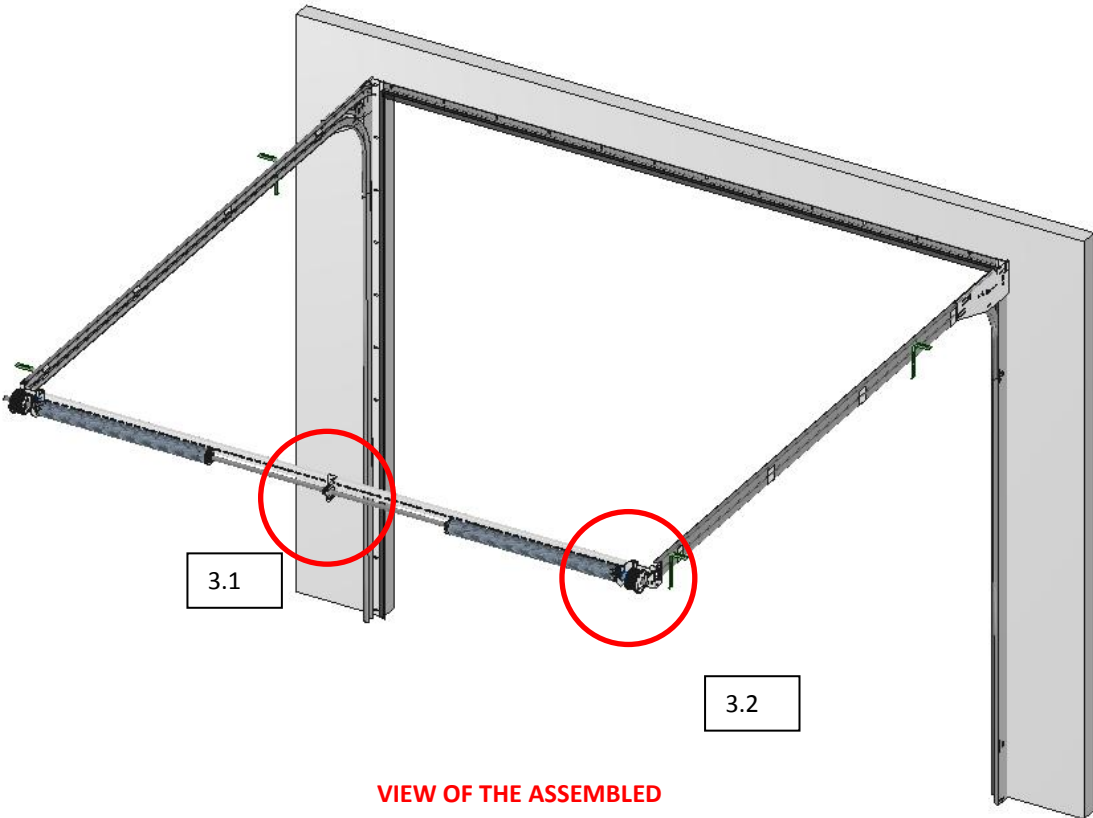


!
SPRINGS TO BE SELECTED FROM THE APPLICATION

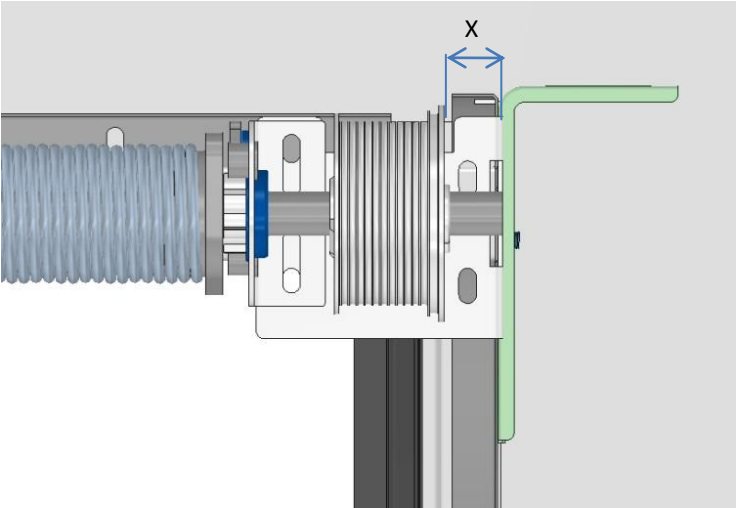
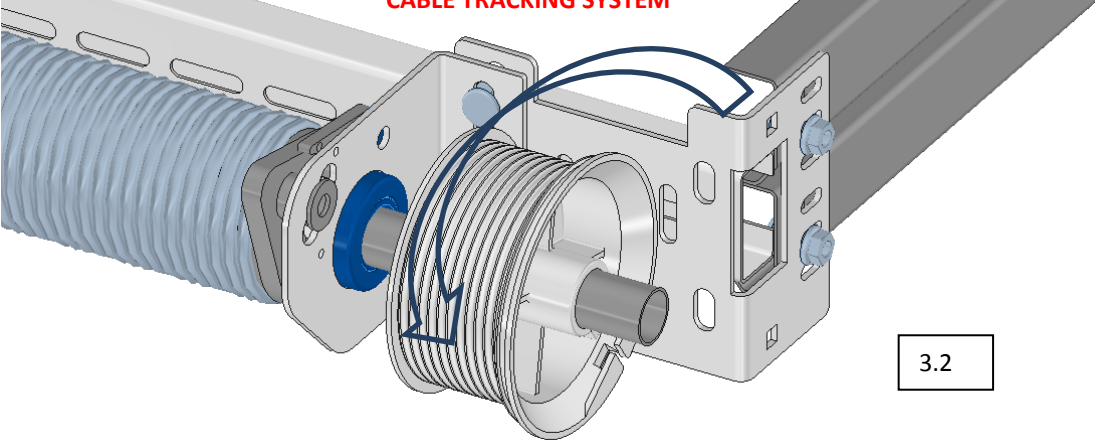


red

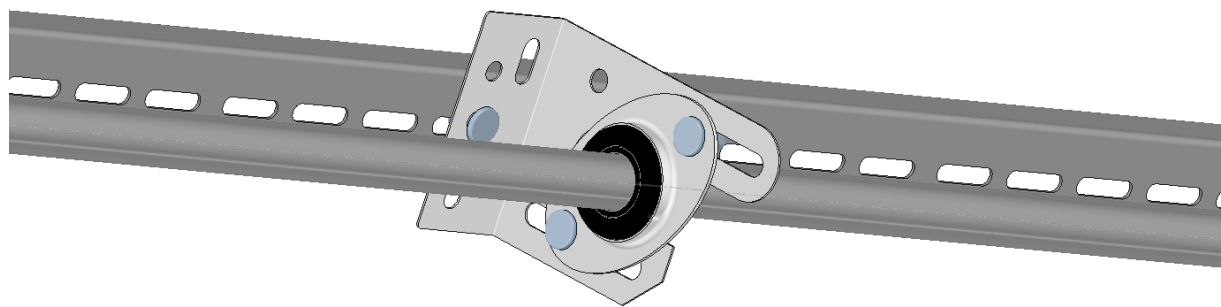
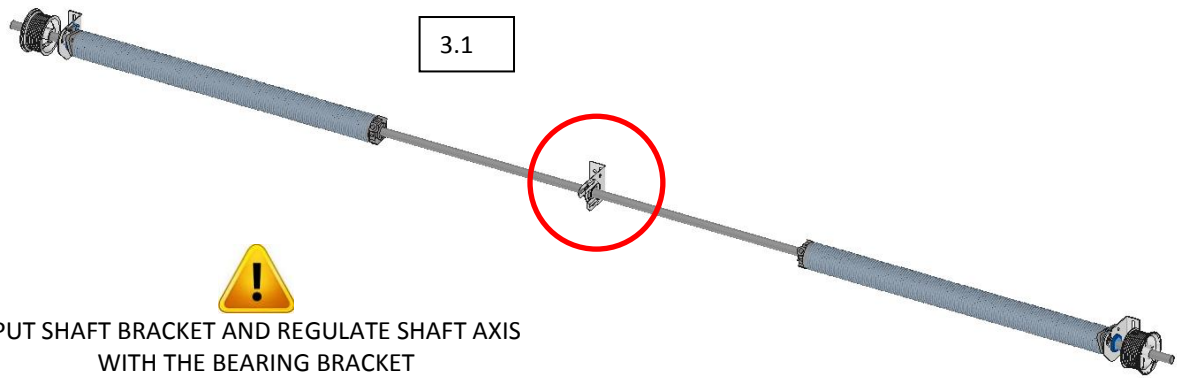




**VIEW OF THE ASSEMBLED
CABLE TRACKING SYSTEM**

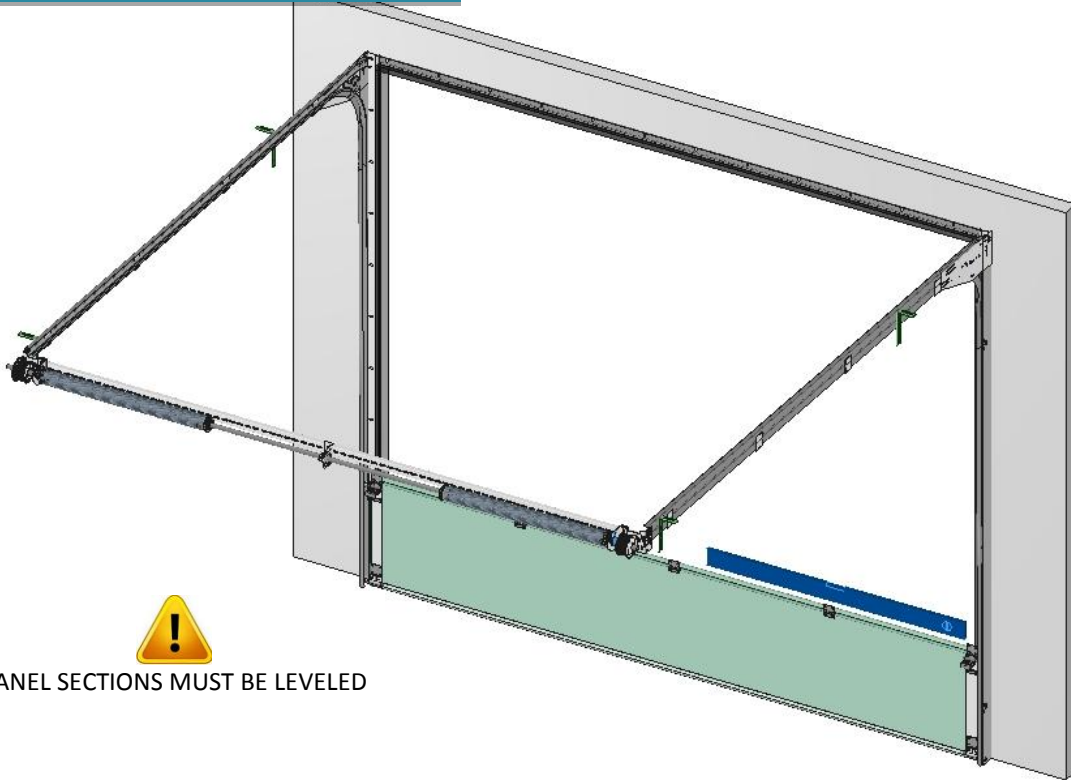


**DISTANCE OF THE
MONTAGE OF THE DRUM
AND THE TRACK**
X=31mm



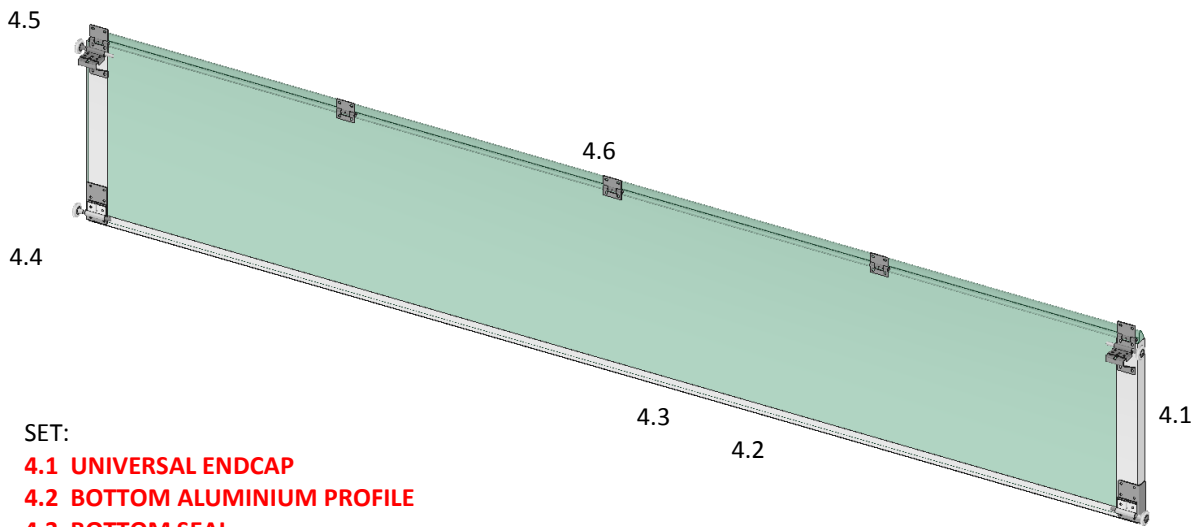
! ATTENTION
IN CASE OF MONTAGE OF ELECTRIC DRIVE, THE
BRACKET SHOULD BE SLIGHTLY MOVED SO THAT
IT DOES NOT DISTURB THE DRIVE TRACK

MONTAGE OF PANEL SECTIONS



PANEL SECTIONS MUST BE LEVELED

MONTAGE OF THE BOTTOM PANEL SECTION

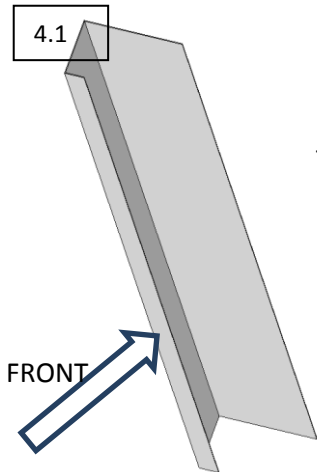


SET:

- 4.1 UNIVERSAL ENDCAP
- 4.2 BOTTOM ALUMINIUM PROFILE
- 4.3 BOTTOM SEAL
- 4.4 BOTTOM BTACKET
- 4.5 SIDE HINGE
- 4.6 MIDDLE HINGE

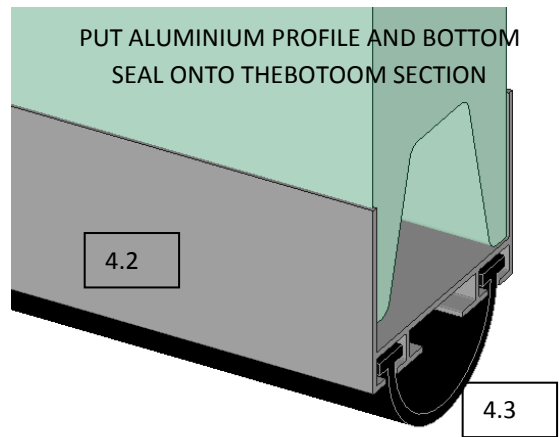
TO BE ADJUSTED TO PANEL TYPE
TO BE ADJUSTED TO PANEL TYPE

Since the endcaps and the hinges are fixed with self tapping fasteners, the holes ought to be pre-drilled. Diameter of the hole depends on the panel.



4.1

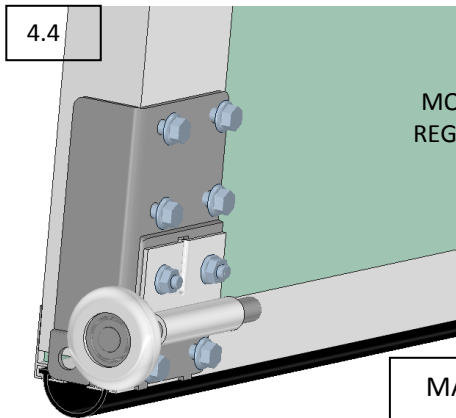
PUT SIDE ENDCAPS ONTO THE PANEL SECTIONS. USE ALUMINIUM RIVETS




PUT ALUMINIUM PROFILE AND BOTTOM SEAL ONTO THE BOTTOM SECTION

4.2

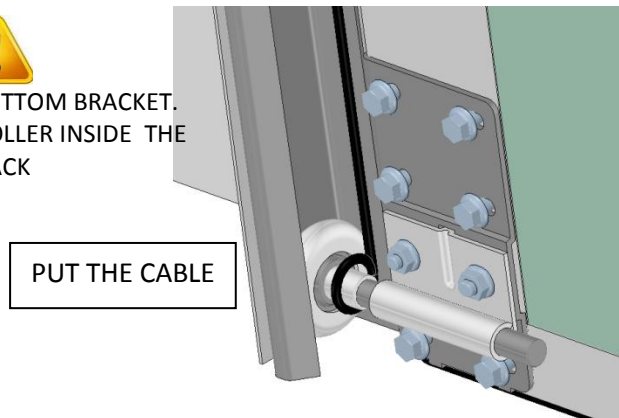
4.3



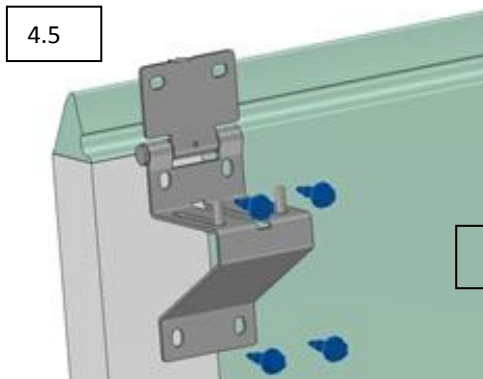
4.4


MONTAGE OF BOTTOM BRACKET. REGULATE THE ROLLER INSIDE THE TRACK

MAX 10Nm



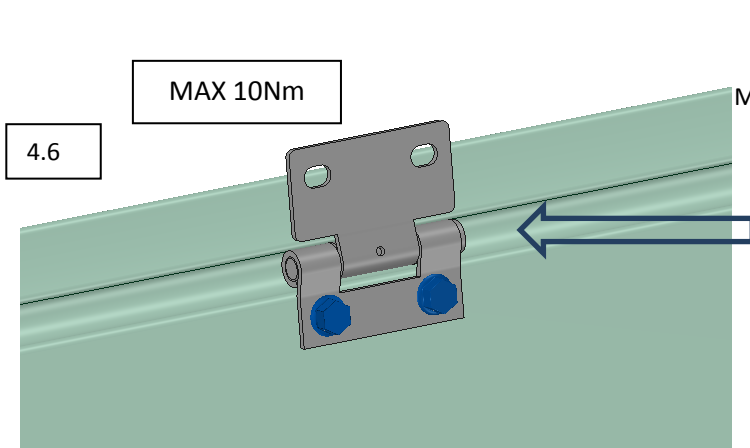
PUT THE CABLE



4.5

MAX 10Nm


MOUNT THE HINGE WITH A PROPER TORQUE



4.6

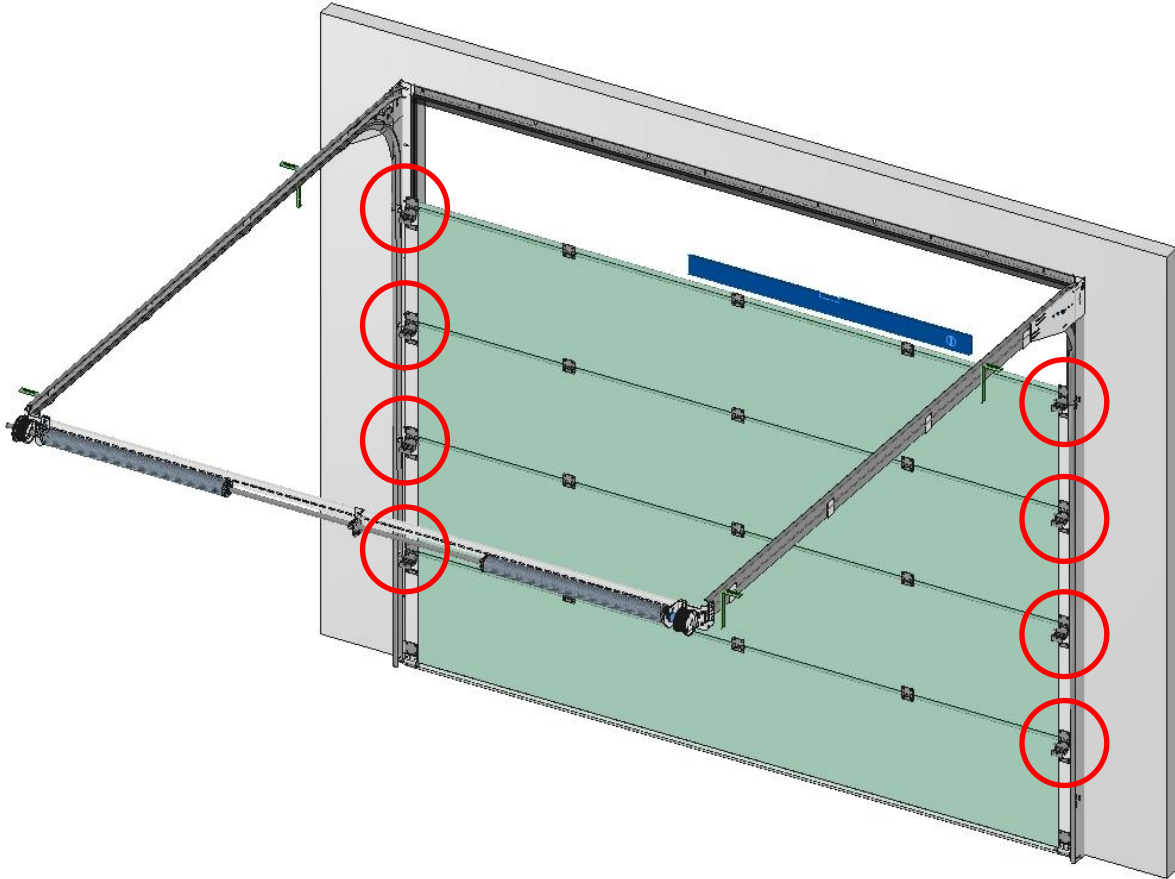
MAX 10Nm


MOUNT THE HINGE WITH A PROPER TORQUE

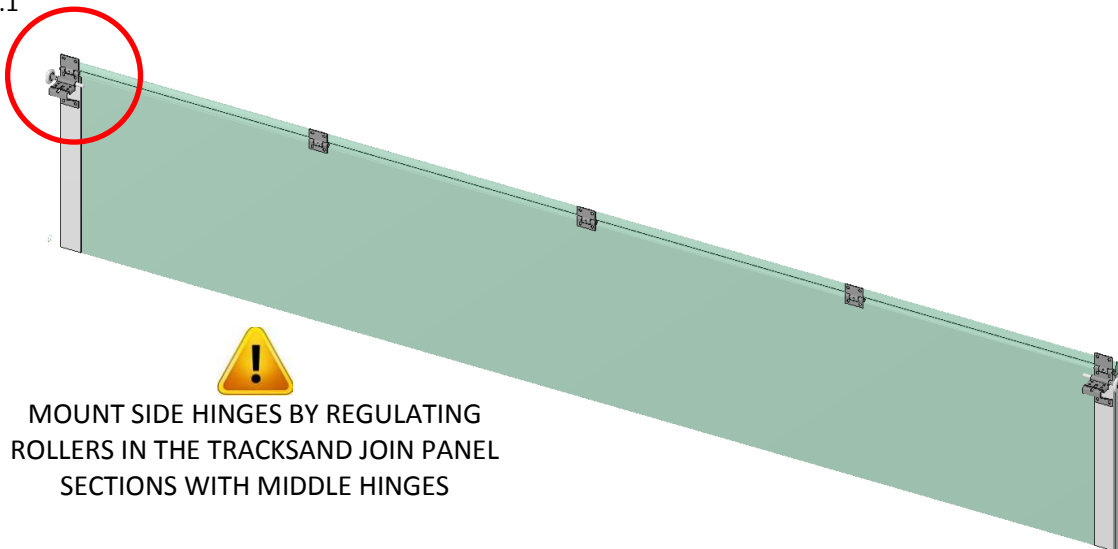
For proper selection of number of middle hinges, use the following table:

Door width	Number of middle hinges
0-2749	1
2749-3999	2
3999-5000	3

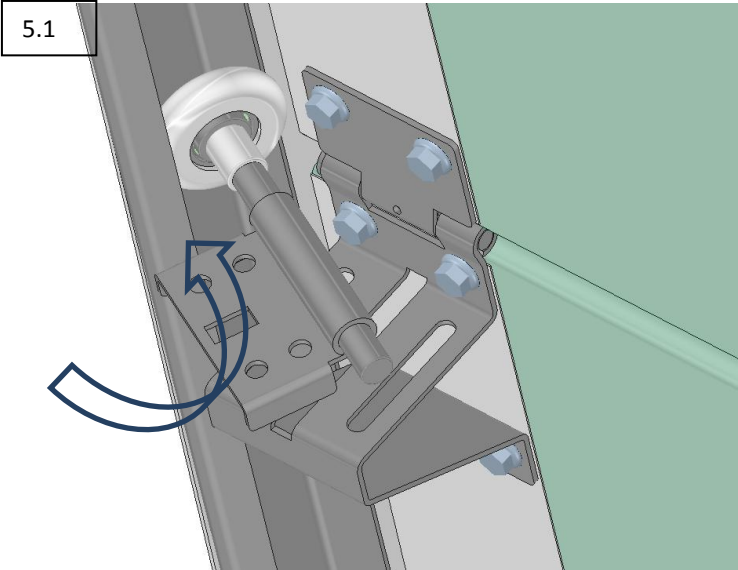
MONTAGE OF THE OTHER PANEL SECTIONS



5.1

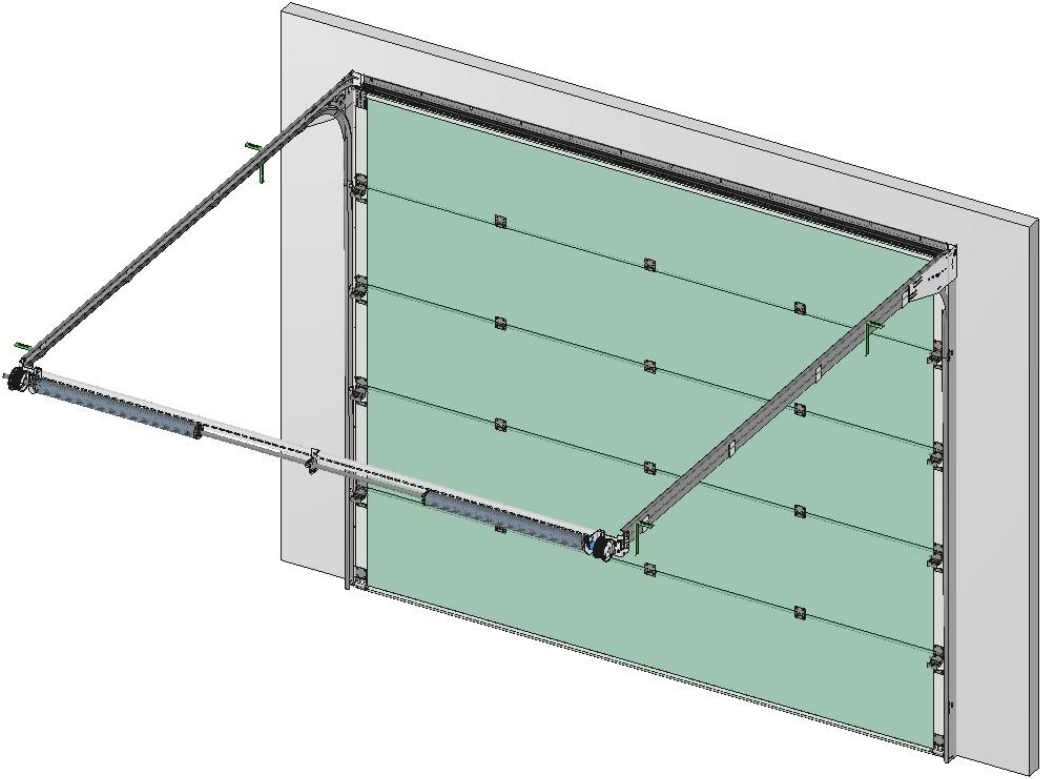


!
 MOUNT SIDE HINGES BY REGULATING
 ROLLERS IN THE TRACKS AND JOIN PANEL
 SECTIONS WITH MIDDLE HINGES

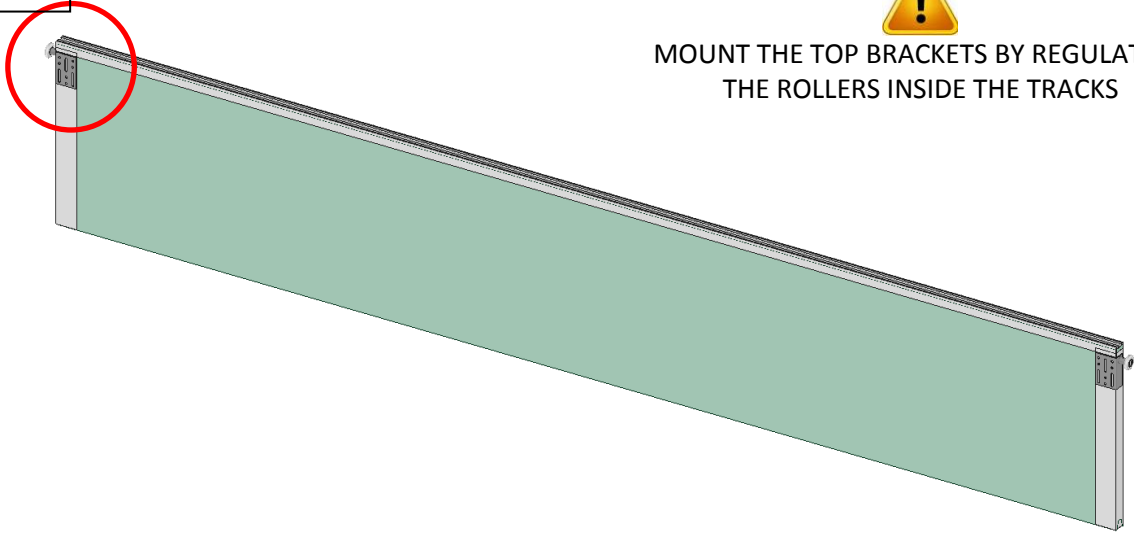


ATTENTION
PUT THE ROLLERS INSIDE A TRACK FIRST
AND THEN FIX THEM TO THE HINGE

MONTAGE OF THE TOP PANEL SECTION



5.2



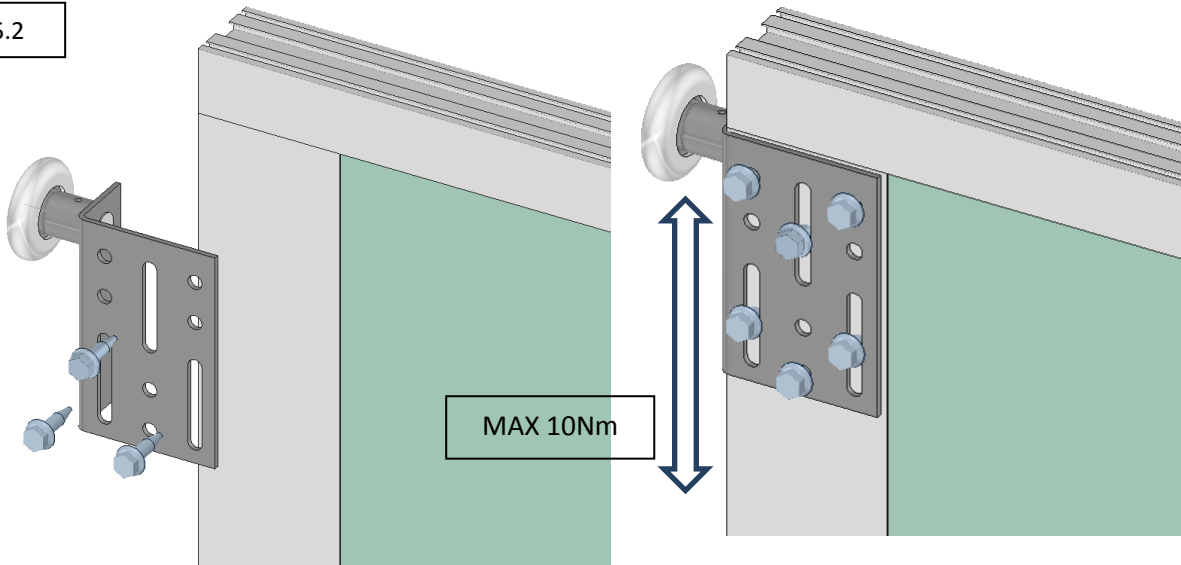
MOUNT THE TOP BRACKETS BY REGULATING
THE ROLLERS INSIDE THE TRACKS



MONTAGE OF THE TOP BRACKET.
REGULATE THE ROLLER INSIDE
THE TRACK

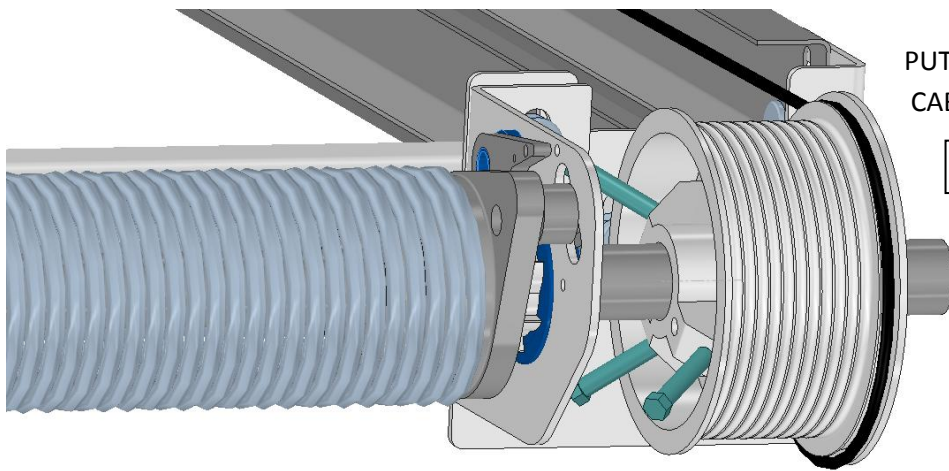
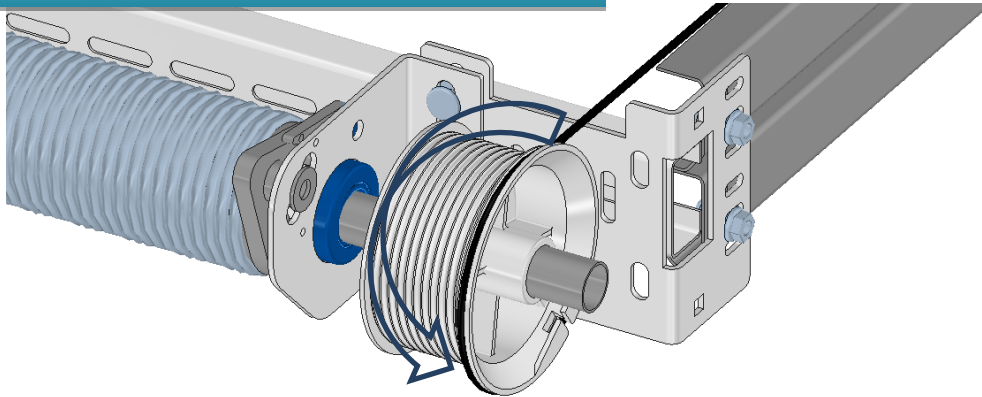
AFTER REGULATION TIGHTEN THE BRACKET
WITH THE OTHER BOLTS

5.2



MAX 10Nm

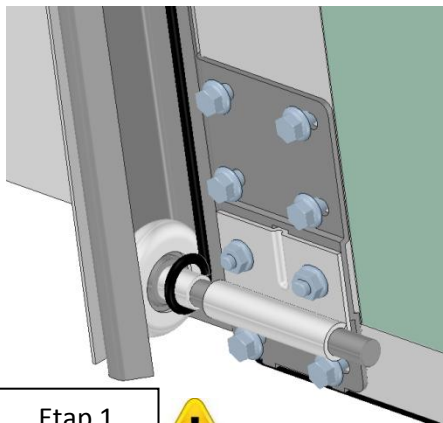
MONTAGE OF THE CABLE



PUT THE CABLE THROUGH THE CABLEDRUM AND TIGHTEN IT

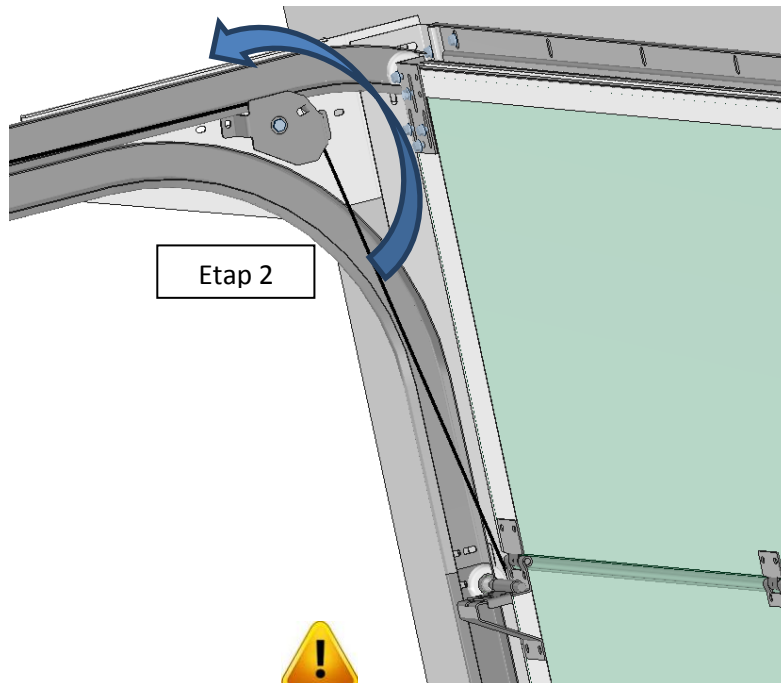
Etap 3

TIGHTEN MAX 15Nm



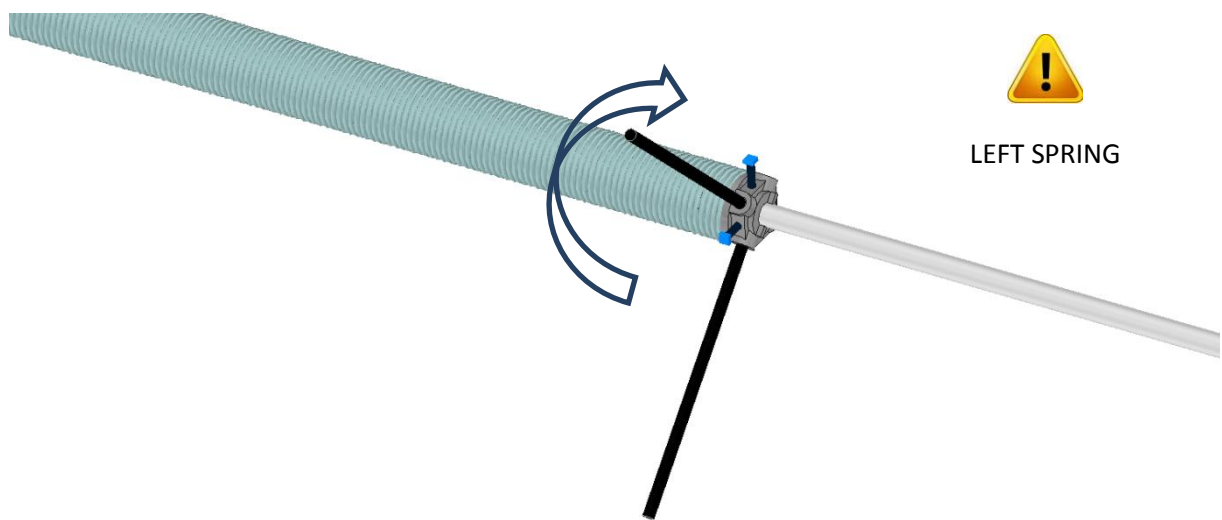
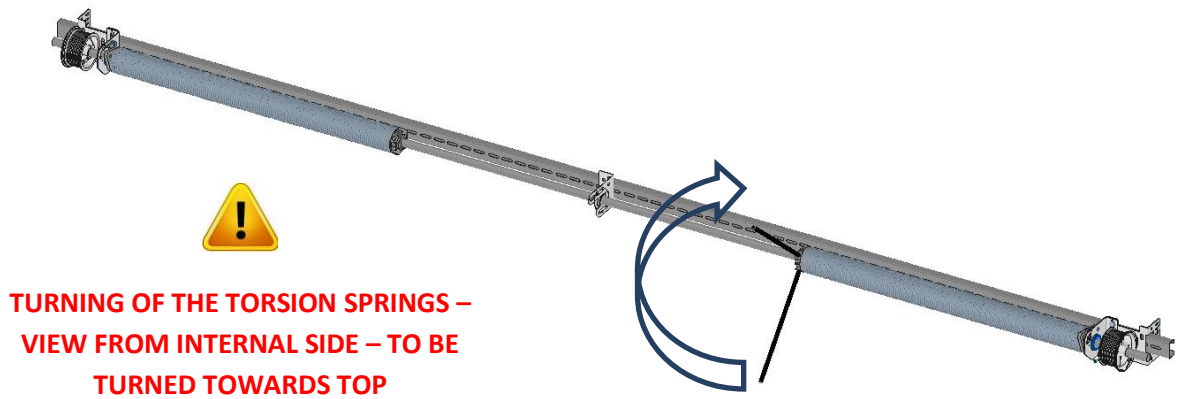
Etap 1

PUT STEEL CABLE ONTO BOTTOM ROLLER AND THEN FIX THE ROLLER BRACKET TO THE BOTTOM BRACKET

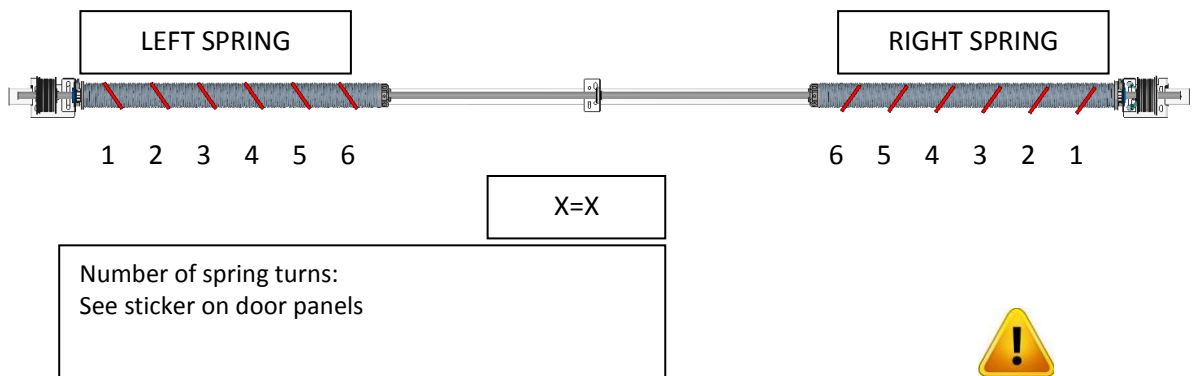


Etap 2

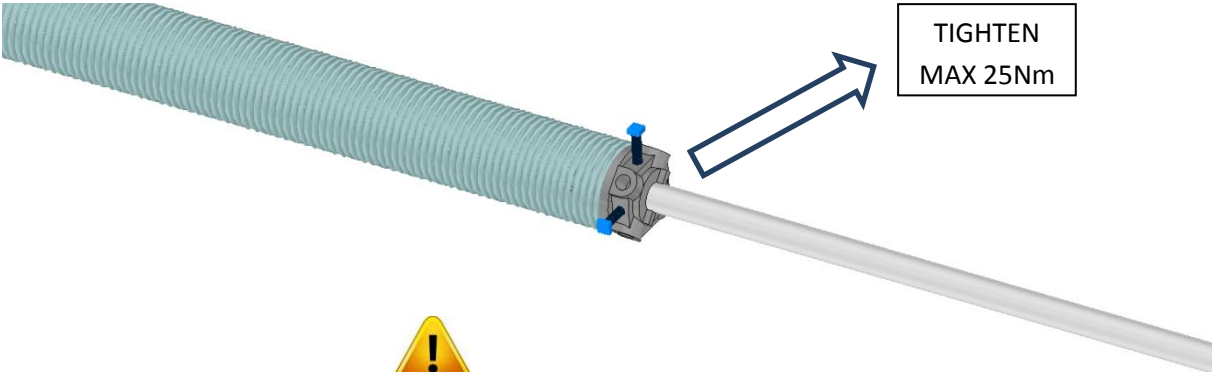
PUT THE CABLE BEHIND THE ROLLER AND PLACE IT ON THE PULLEY



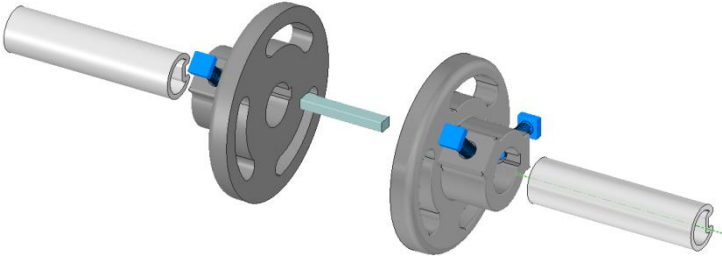
ATTENTION
DURING TURNING OF TORSIONS SPRING IT IS NECESSARY TO USE HIGH STRENGTH. BE CAREFUL.
MONTAGE, SERVICE, MAINTANANCE AND REPAIRS CAN ONLY BE PERFORMED BY QUALIFIED STAFF.



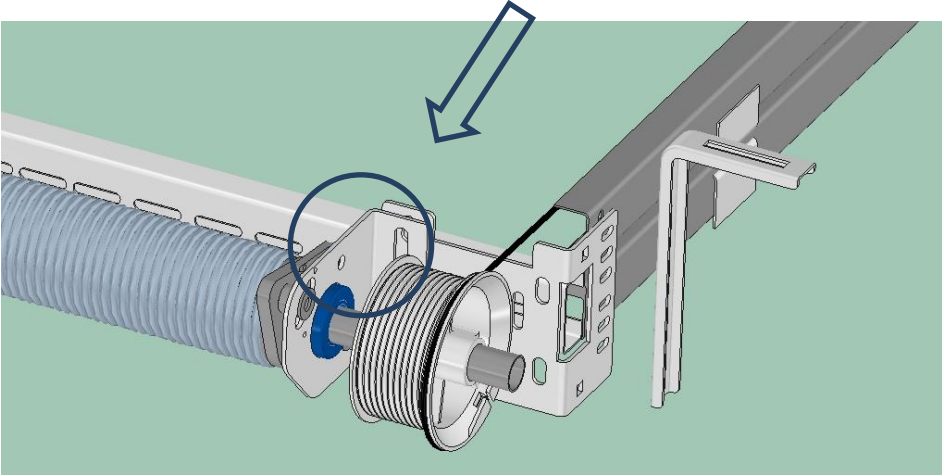
**SPRINGS TO BE TURNED AS PER THE TABLE WITH
SPRING TURNS**

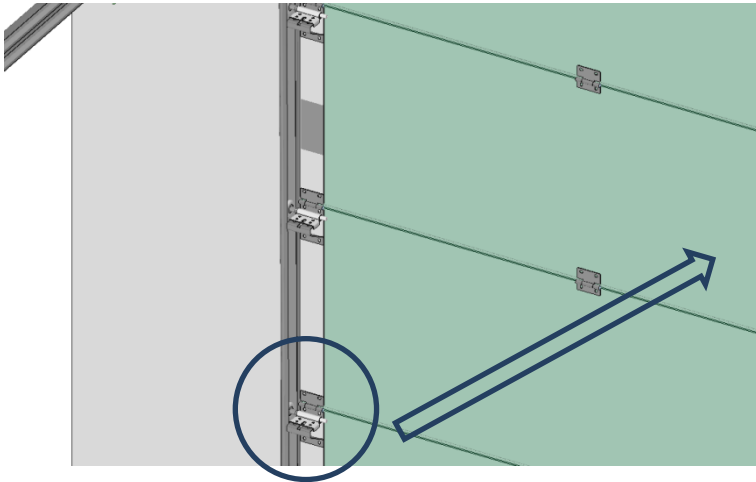


FOR GARAGE DOORS OF HEIGHT $\geq 3000\text{mm}$ USE A SHAFT WITH KEYWAY AND A SHAFT COUPLER



REMOVE THE KEY
BLOCKING THE SPRING
BREAK DEVICE





The name or the identification sign and registered address of the producer

The last two digits of the year, when the marking was placed

EN 13241-1

The number of European norm

Description of the product and intended use
Identification number

Water resistance [technical class]

Wind load resistance [technical class]

Thermal resistance [value]

Air permeability [technical class]

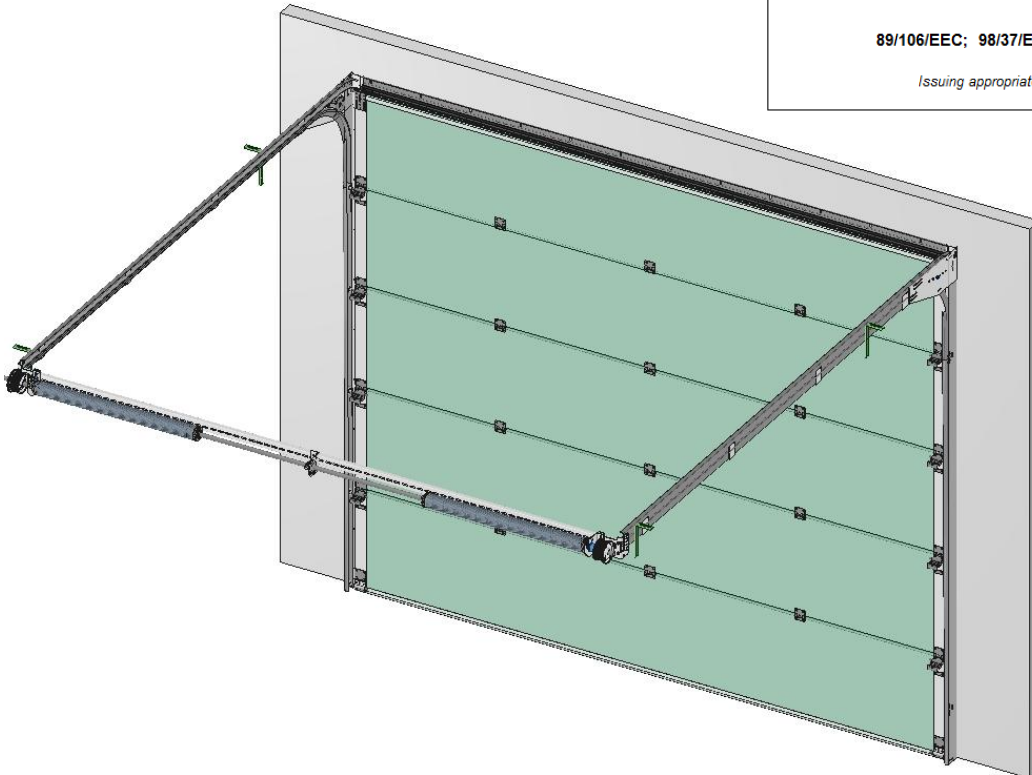
Information about the required quality of the product

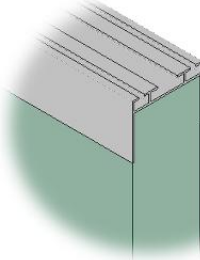
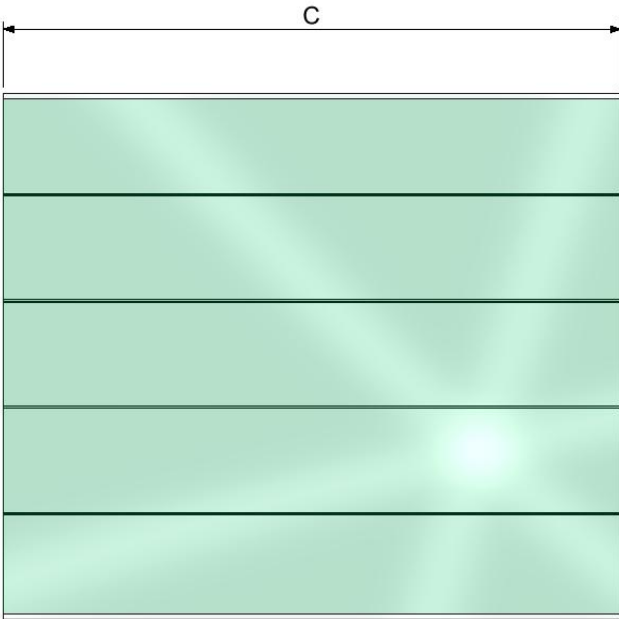


Conformity CE marking by using CE mark
Determined in the directive 93/68/EEC

89/106/EEC; 98/37/EC; 89/336/EEC

Issuing appropriate directives





$C=S+21$ WIDTH OF THE PANEL
 $D=H+15$ HEIGHT OF THE PANEL

