# USER MANUAL GARAGE DOOR RF350



#### 1. Guaranteeconditions

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.

- 3. Make sure that during working with electric devices the power is off.
- 4. Security devices should never be switched off!
- 5. Be careful in case of keen edges, use gloves.
- 6. If visible damages of sectional door occur, stop further using of the door.
- 7. While assembly/maintenance of the door it is recommended to always use gloves and protection shoes, and during drilling use the protection glasses.
- 8. Mark out the place of working with a tape so that the children and other people keep a distance.
- 9. It is recommended that maintenance to be carried out by a professional (company or person).
- 10. Provide properlightning.
- 11. 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. garage door height: 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

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

# 6. Assembly tools

Tools necessary for proper and quick installation:

- 1. driller with drill of 8.0mm
- 2. flatwrench 10 mm,
- 3. flatwrench 13 mm,
- 4. pass-key,
- 5. clamp,
- 6. suspension line,
- 7. level,
- 8. 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:

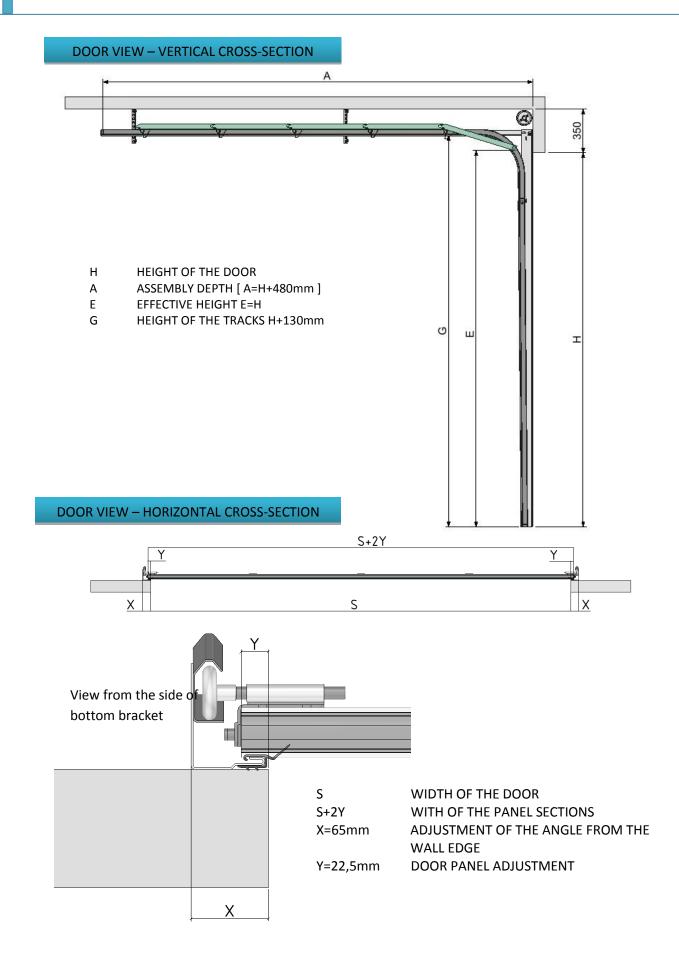
- remove impurities from door that have influence on correct working of door,
- lubricate the bearings and rollers,
- lubricate the hinges.

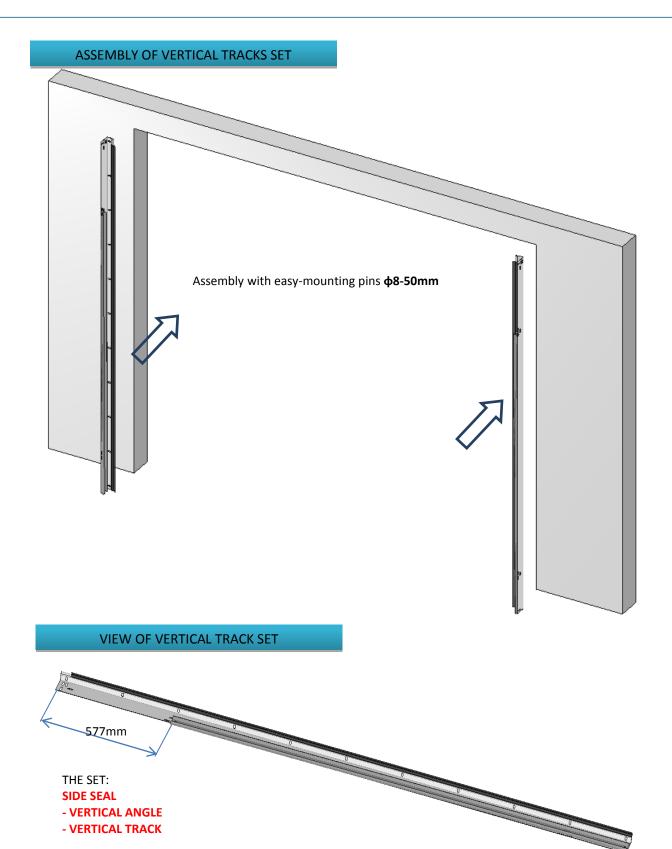
After 12 months since assembly repairer (assembling person) shall control and maintenance of proper door operating:

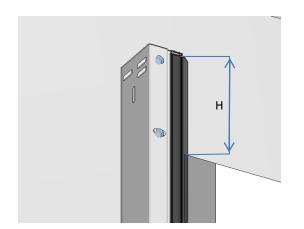
- roller (damages, materialconsumption, lubrication),
- control of steel cables consumption, especially connections with cable drums and bottom brackets and working places of cable pulleys if applied,
- control of cable pulleys consumption, if applied,
- spring breakdevicecontrol,
- control of vertical 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

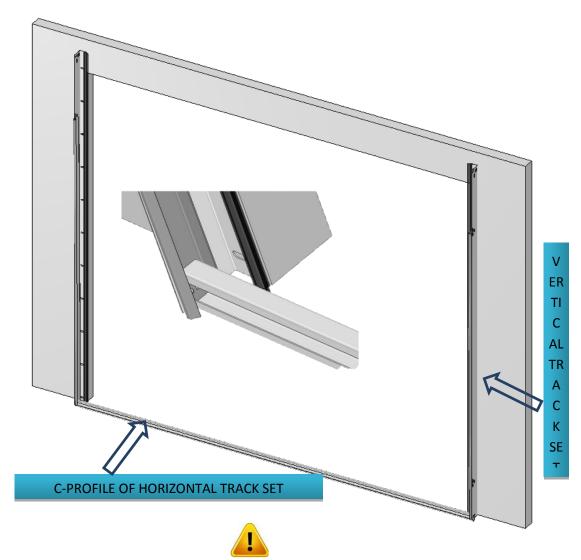
All electric devices (including operators) that are a part of garage door shall fulfill requirements of European Union standards. Assembly of operator shall be made in accordance with producer manual. In case of lack of power supply or if there is no separate entrance into the garage, door shall be equipped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





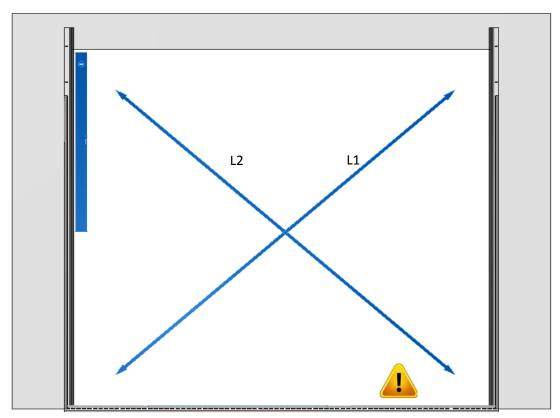


ADJUST THE EDGE OF THE SIDE ANGLE OVER THE HEADROOM

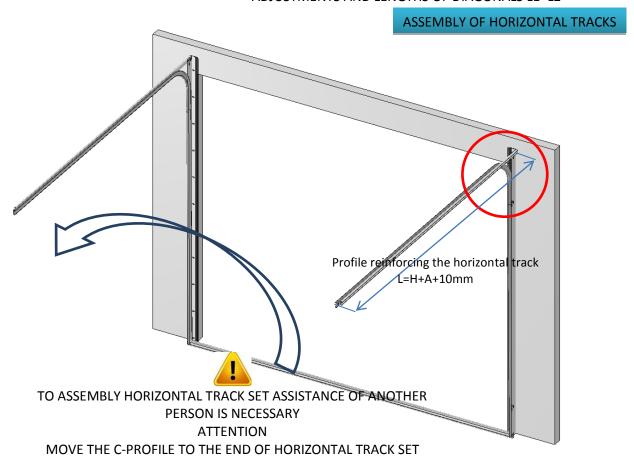


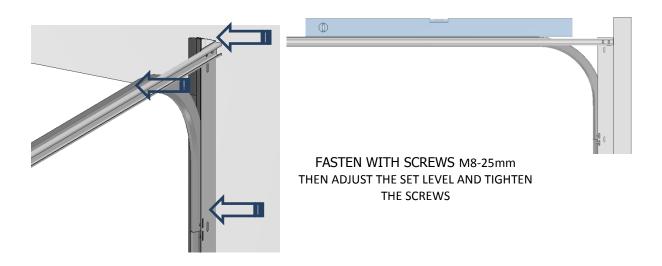
IN ORDER TO ADJUST THE VERTICAL TRACK SET PROPERLY USE THE DISTANCE OF C-PROFILE ATTENTION

LENGTH OF THE PROFILE C=S+124mm

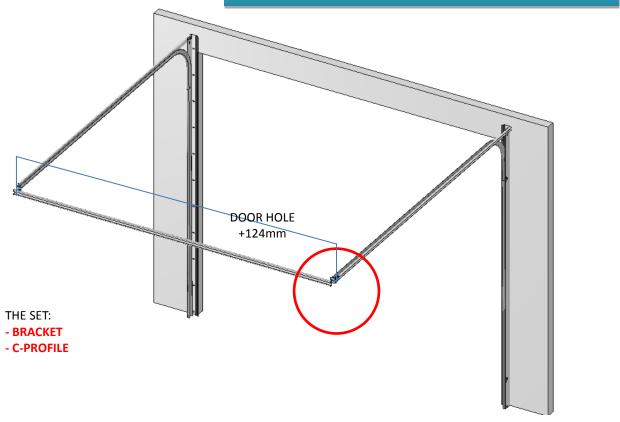


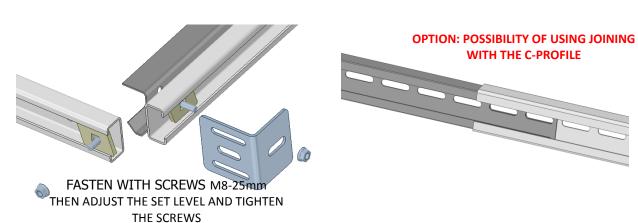
BEFORE TIGHTENING CHECK ALL VERTICAL AND HORIZONTAL ADJUSTMENTS AND LENGTHS OF DIAGONALS L1=L2

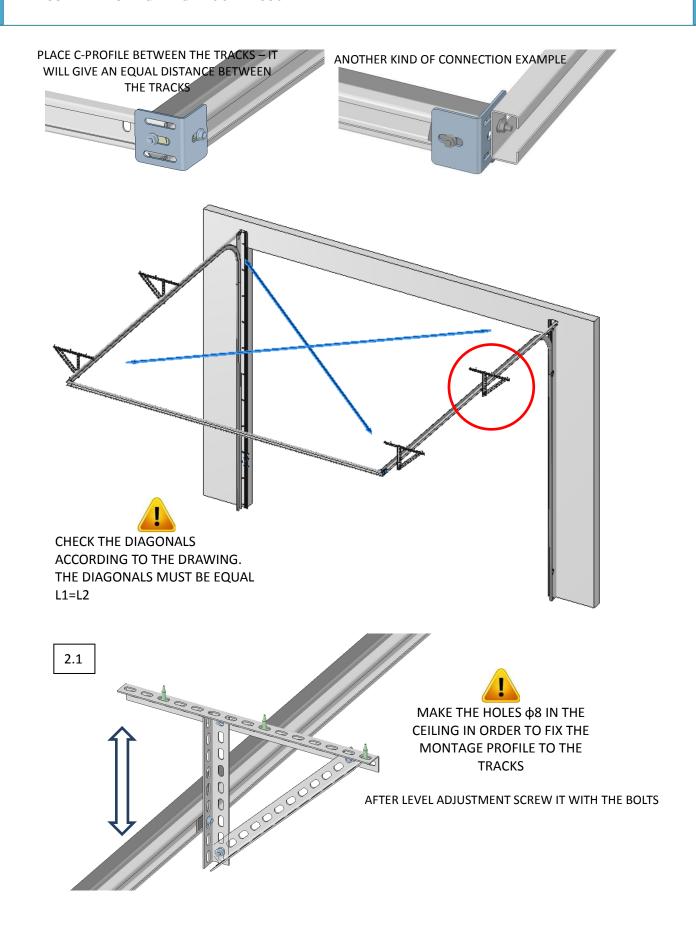


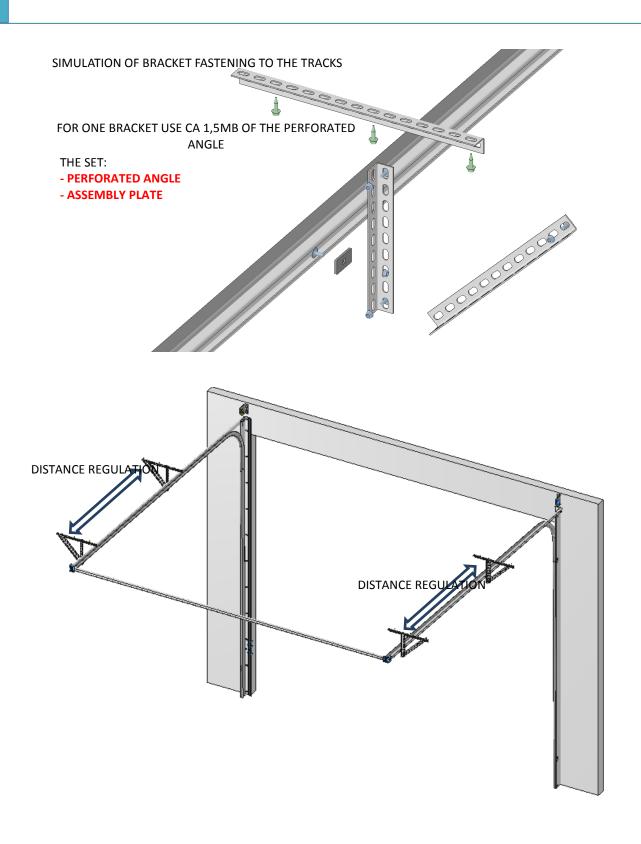


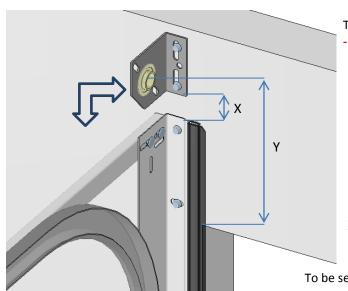
# ASSEMBLY OF C-PROFILE AT THE END OF HORIZONTAL TRACKS











#### SHAFT BRACKET ASSEMBLY

THE SET:

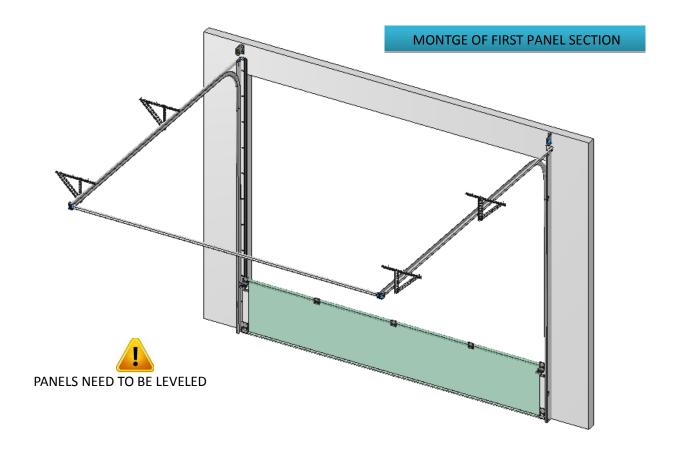
- SIDE SHAFT BRACKET

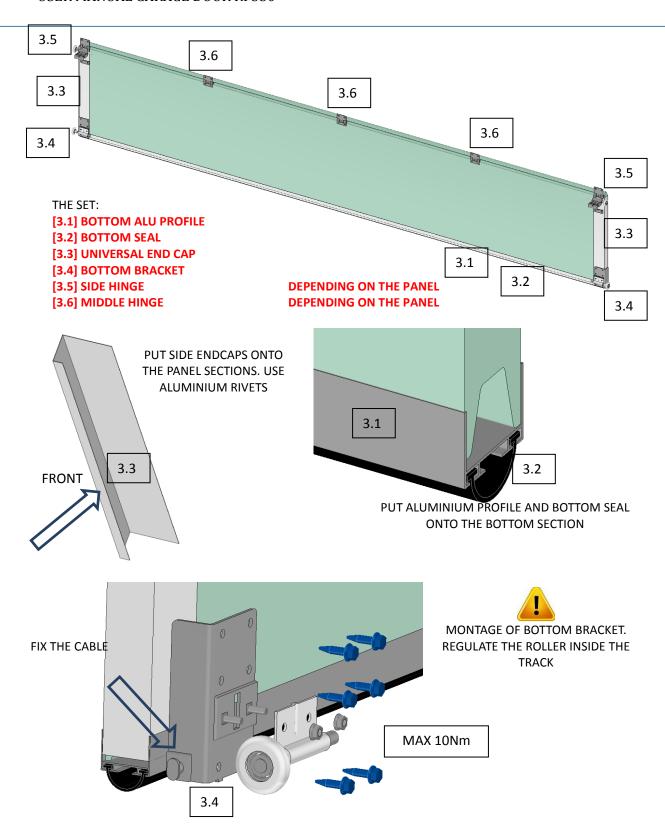
THE GIVEN VALUES APPLY TO MAX ADJUSTMENT OF THE SHAFT AXIS Xmin = 0 mm

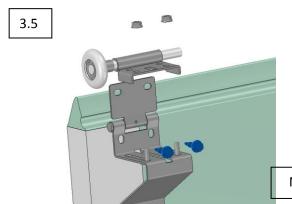


Xmax = 42mm [+/-2mm] Ymax = 280mm

To be settled directly on the vertical angle.





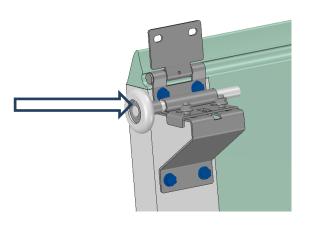




MONTAGE OF THE SIDE HINGE.
REGULATE THE ROLLER INSIDE THE
TRACK.

MAX 10Nm

THE CENTRE OF THE SIDE HINGE TO BE
PRECISELY IN THE CENTRE OF THE HOLE OF
PANELS CONNECTION



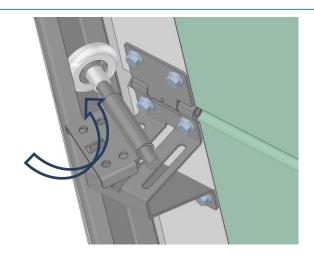
3.6

MAX 10Nm PREC

THE CENTRE OF THE MIDDLE HINGE TO BE PRECISELY IN THE CENTRE OF THE HOLE OF PANELS CONNECTION

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

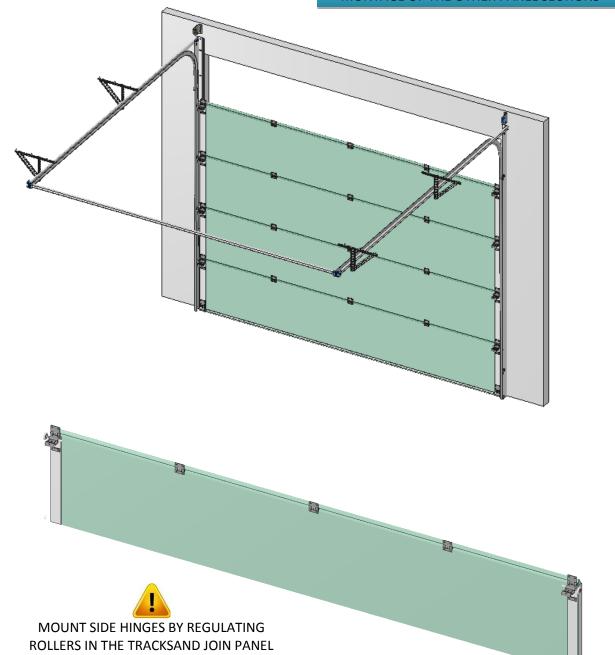
Door width	Number of middle hinges
0-2749	1
2749-3999	2
4000-4999	3

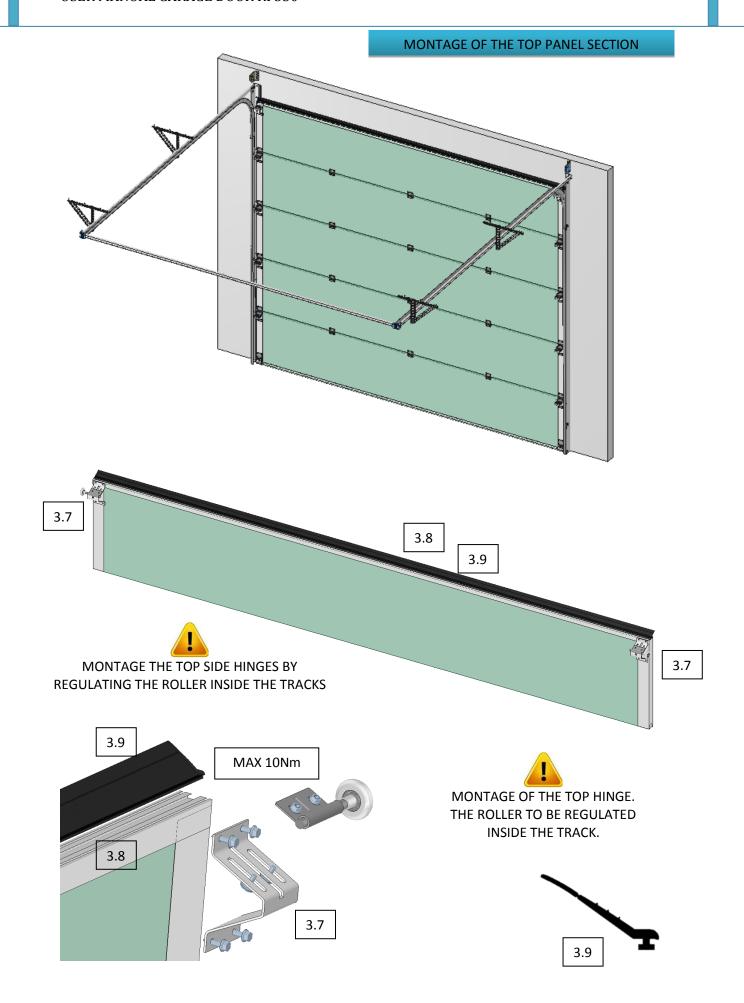


SECTIONS WITH MIDDLE HINGES

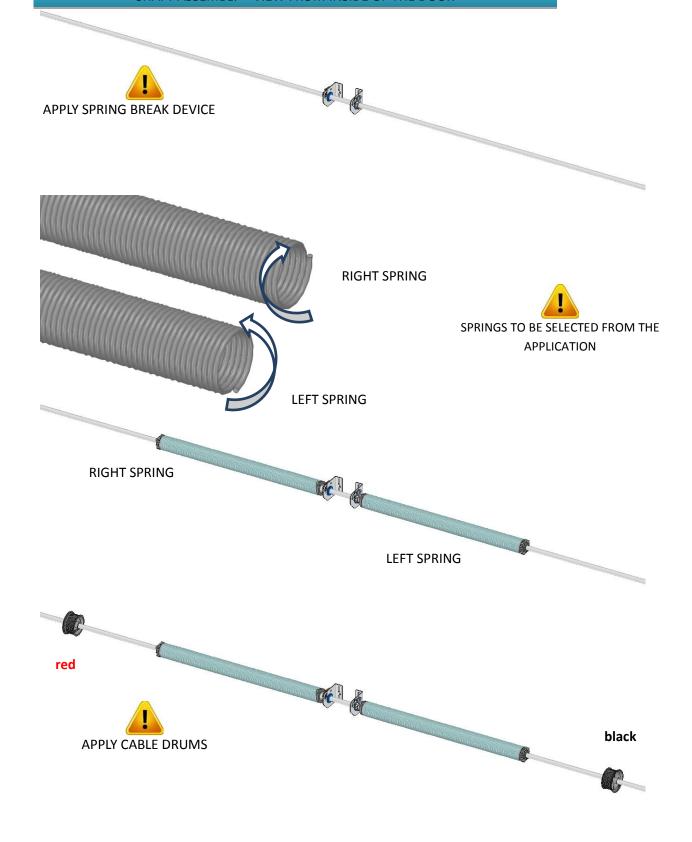


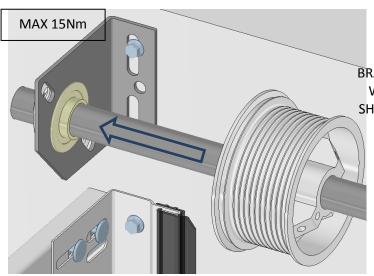
# MONTAGE OF THE OTHER PANEL SECTIONS



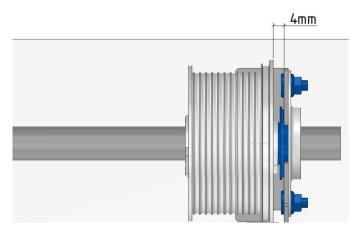


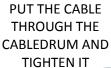
#### SHAFT ASSEMBLY – VIEW FROM INSIDE OF THE DOOR

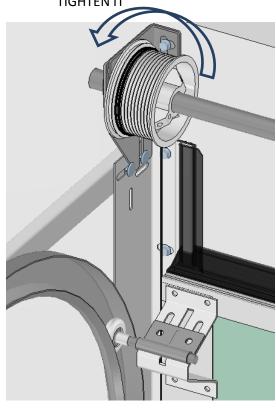


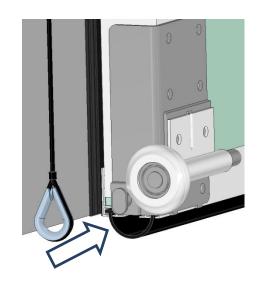


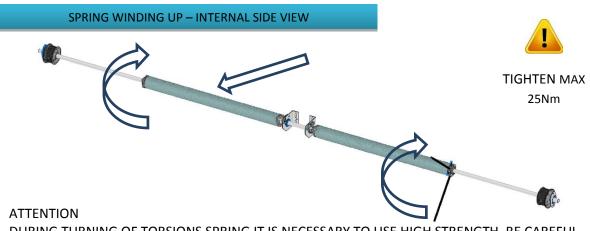
PLACE COMPLETE SHAFT IN SHAFT
BRACKET AND THEN APPLY THE BEARING
WITH RETAINER AT THE ENDS OF THE
SHAFT AND SCREW WITH THE M8 BOLTS



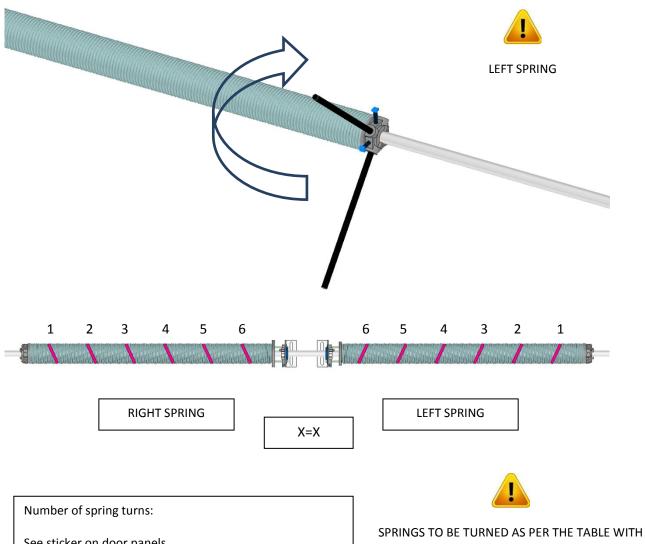






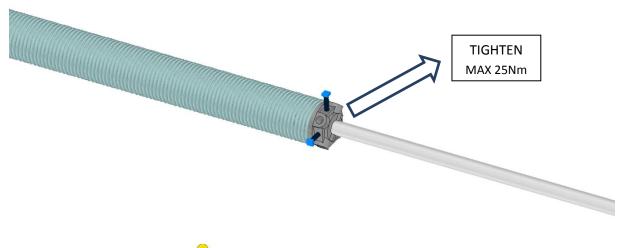


DURING TURNING OF TORSIONS SPRING IT IS NECESSARY TO USE HIGH STRENGTH. BE CAREFUL. MONTAGE, SERVICE, MAINTANANCE AND REPAIRS CAN ONLY BE PERFORMED BY QUALIFIED STAFF.



See sticker on door panels

**SPRING TURNS** 





# FOR GARAGE DOORS OF HEIGHT ≥3000mm USE A SHAFT WITH KEYWAY AND A SHAFT COUPLER

