

Installation manual

OPTIMA with sliding systems LHF/LHR

1. Grip Materials

The fastening elements (dowels, screws, self-tapping screws) required to fasten the Optima door to the walls and ceiling are not included in the delivered package.

The installation company must ensure that the structure of the building in which the door is installed is reliable and strong enough to allow the installation of the Optima door.

The installation company is also responsible for using the appropriate materials to attach the door to the existing structure (stone, concrete, steel, wood, etc.)

For this reason, this manual does not provide any guidance in this regard.

Required installation distances:

OPTIMA		Hgr Manual (Height of the brace in manual variant)	Hgr EI (height the brace in electrical and variant)	Hutil Manual (Useful height at manual variant)	Hutil EI (useful height at electric variant)	LS/Ld stall (width on the left and the right one column)
L ≤ 5000	LHF	220	260	Hgol*-150	Hgol*-80	100
H ≤ 3000	LH R	110	160			100

* Hgol - The height of the light opening

Dimensions of the sliding system:

LHF

Width of vertical guide Left/Right: 75 mm

Panel width LHF: L usa (door width) + 50 mm

H stalp (height of vertical guide) LHF: H gol + 110 mm

Htotal (overall height) for electric LHF: H stalp (vertical guide height) + 150 mm
 Htotal (overall height) for manual LHF: H stalp (vertical guide height) + 110 mm

AD (depth) for manual LHF: Hgol + 500 mm

LHR

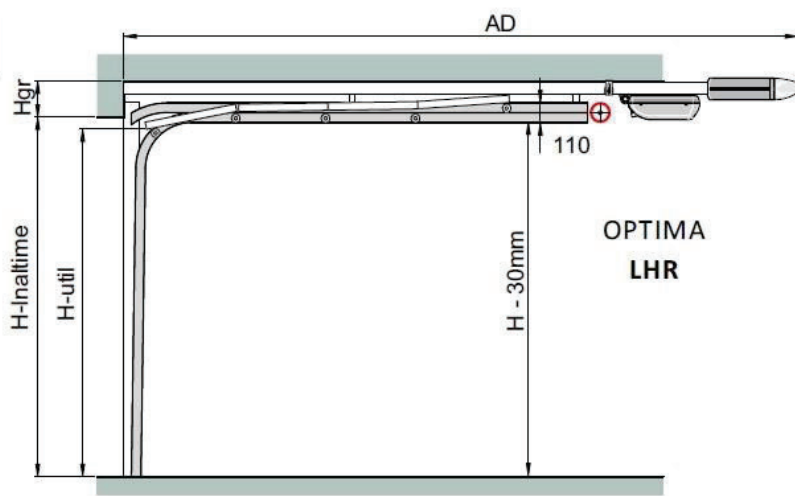
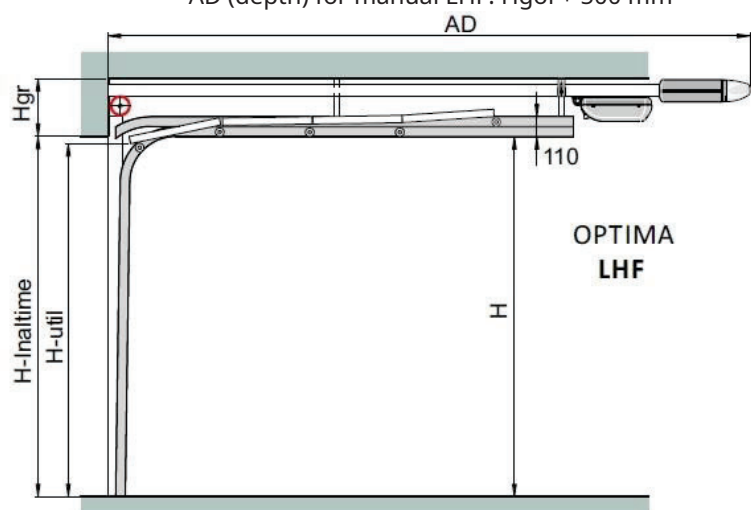
Width of vertical guide Left/Right: 75 mm

Panel width LHR: L usa (door width) + 25 mm

H stalp (height of vertical guide) LHR: Hgol + 80 mm

Htotal (overall height) for electric LHR: Hstalp (vertical guide height) + 80 mm
 Htotal (overall height) for manual LHR: H stalp (vertical guide height) + 30 mm

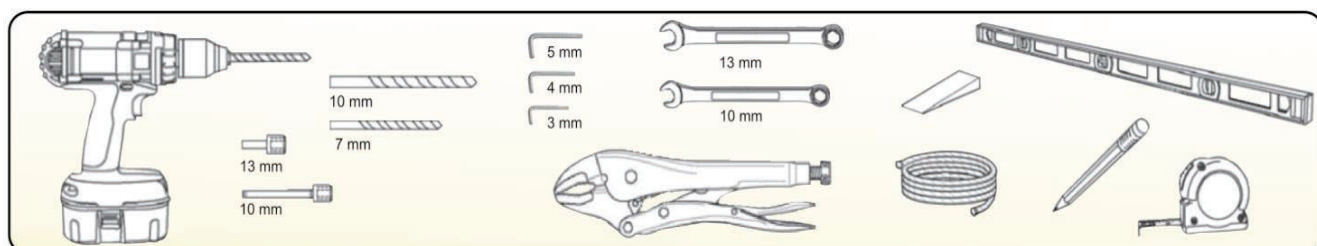
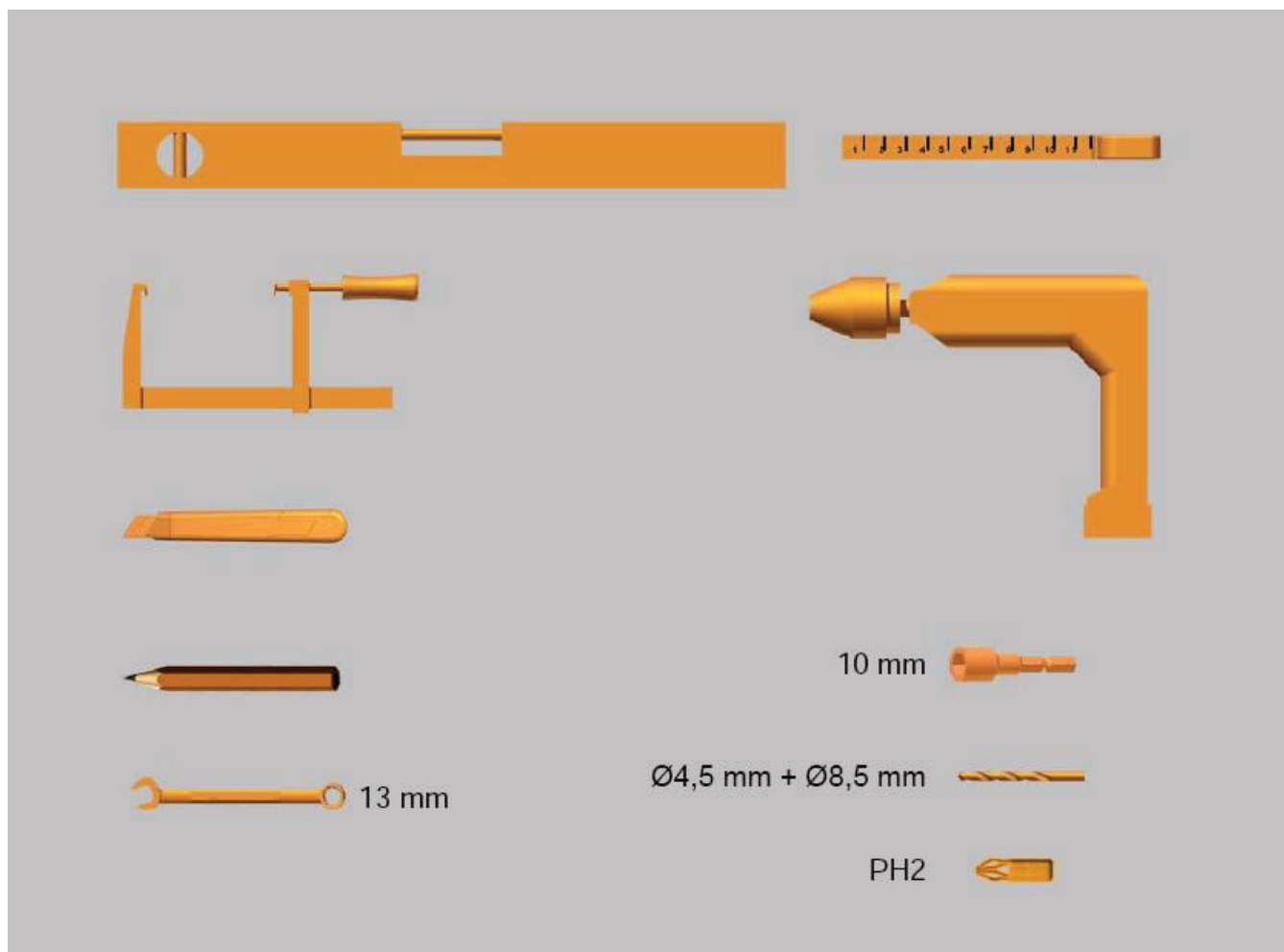
AD (depth in manual version) LHR: Hgol + 650 mm



AD electric (depth in electric version): Hgol + 800 mm

mm
 AD (depth in electric version): Hgol + 800 mm

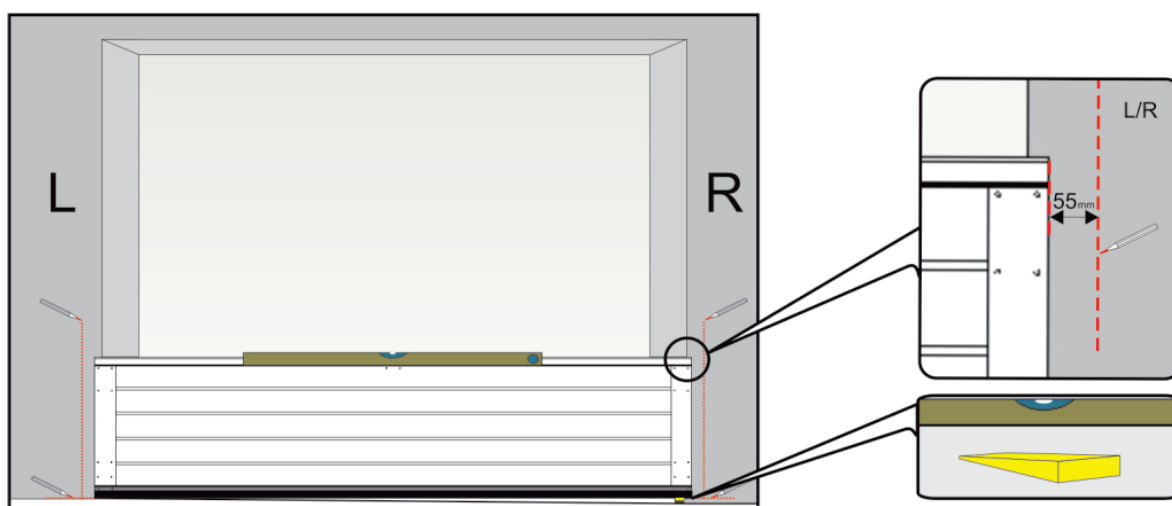
2. Required tools



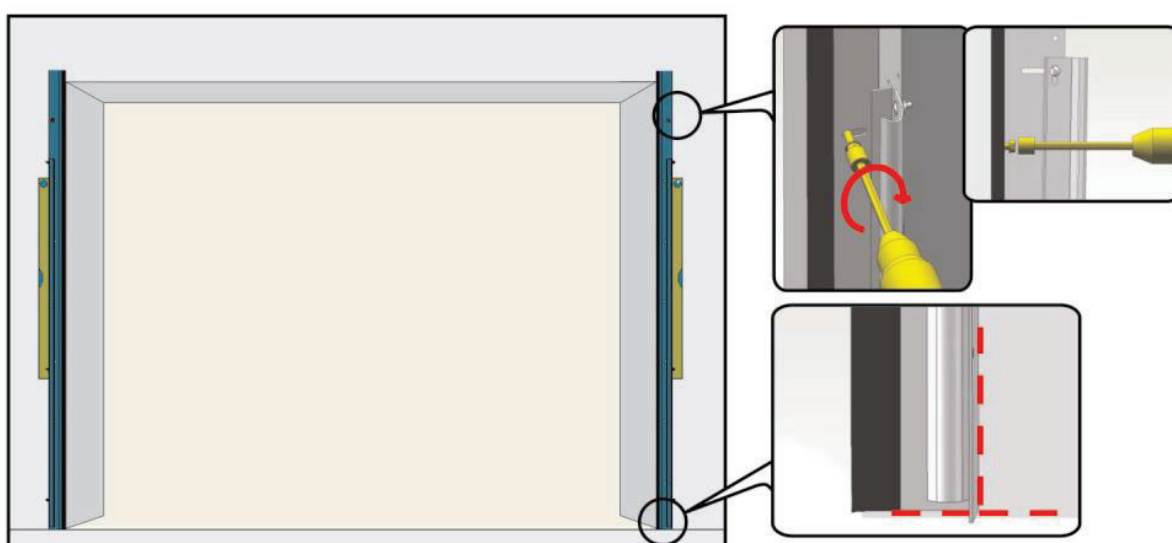
8. Installation manual

1. Leveling /establishing the horizontal level/

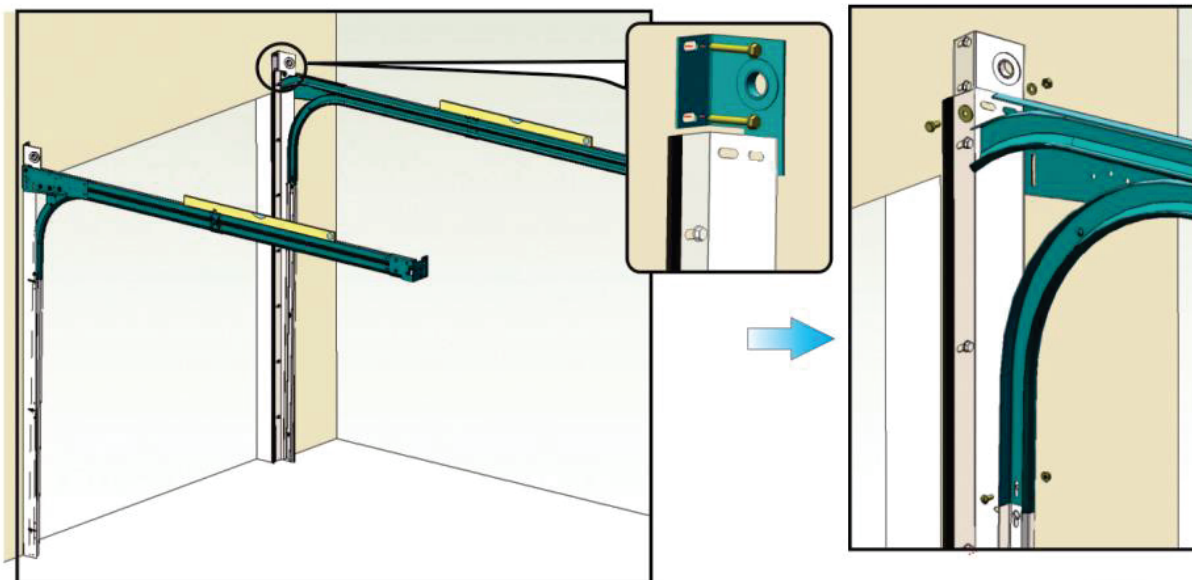
2. It is made using one of the middle panels, and the size varies according to the sliding system.
3. for LHF, L /panel width is L /door width/ + 50 mm
4. for LHR, L /panel width is L /door width/ + 25 mm
5. measure 55mm on both the left and right to fit the vertical guides



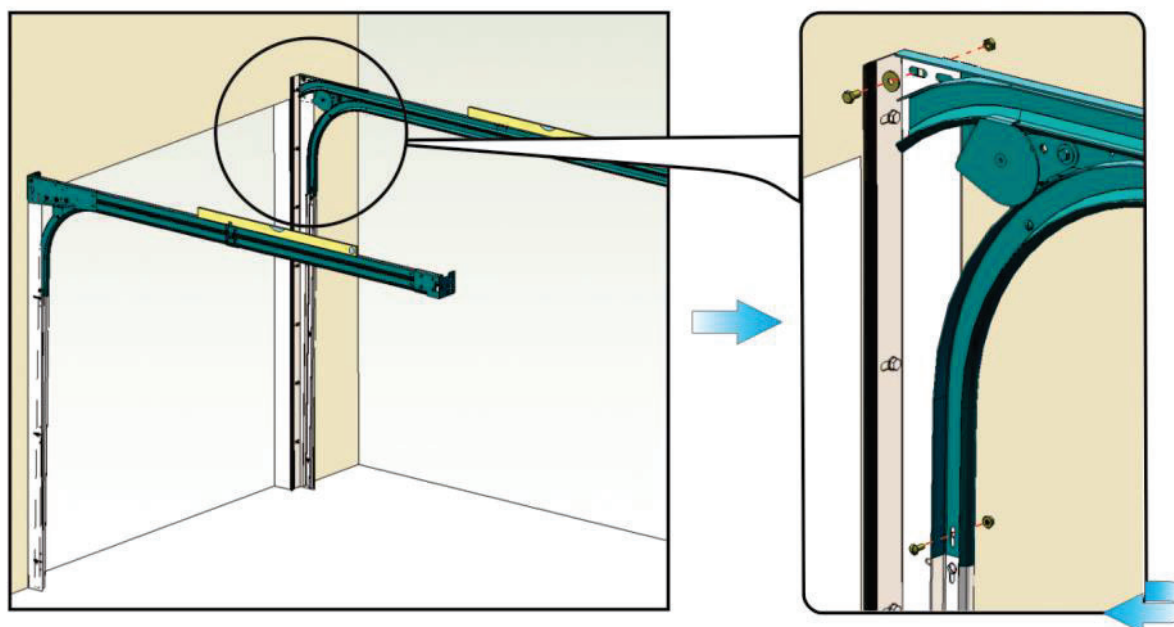
2. Place the vertical guides



3. Horizontal guide and side plates for LHF system



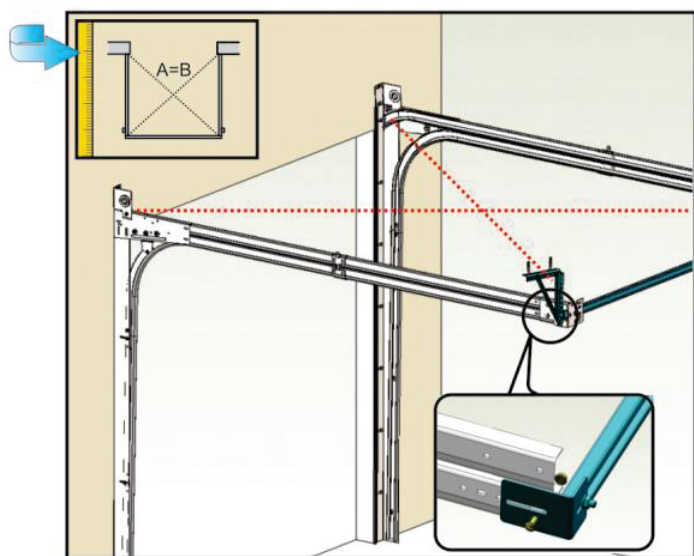
4. Horizontal guide and side plates for LHR system



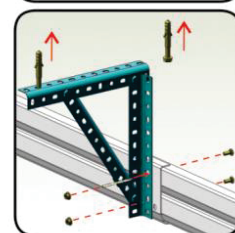
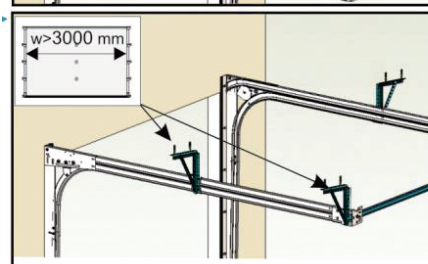
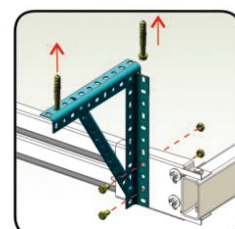
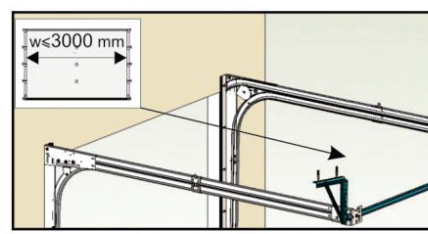
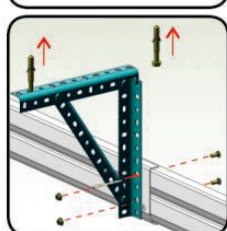
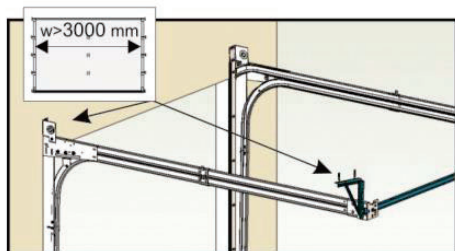
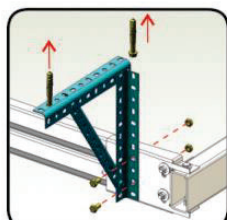
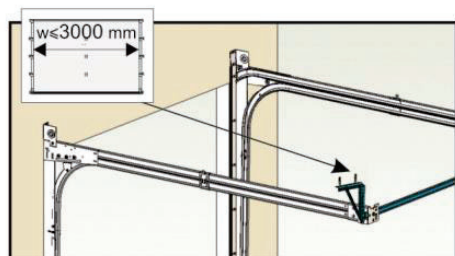
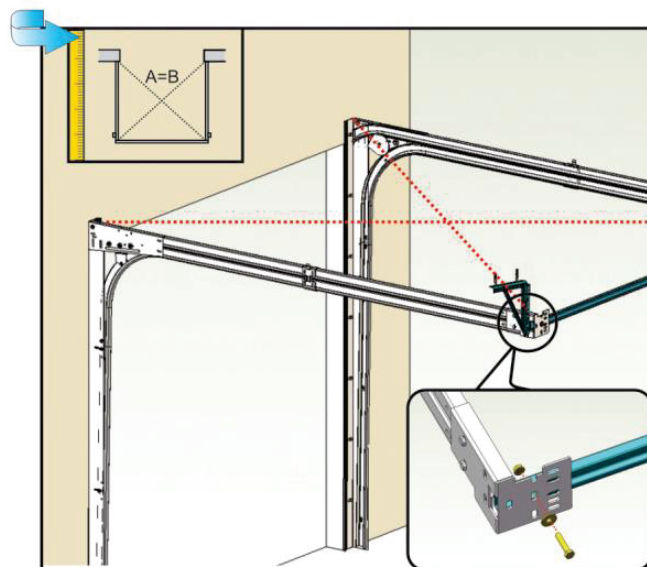
5. Placing the "C" profile / The diagonals must be equal. A ceiling grip is required

Equal diagonals $A = B$!

Sliding system LHF



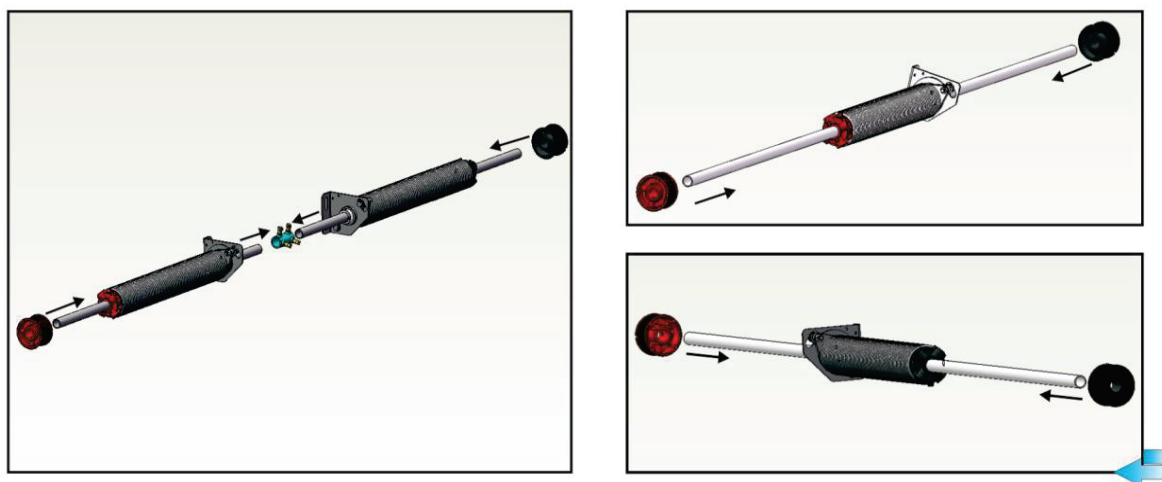
Sliding system LHR



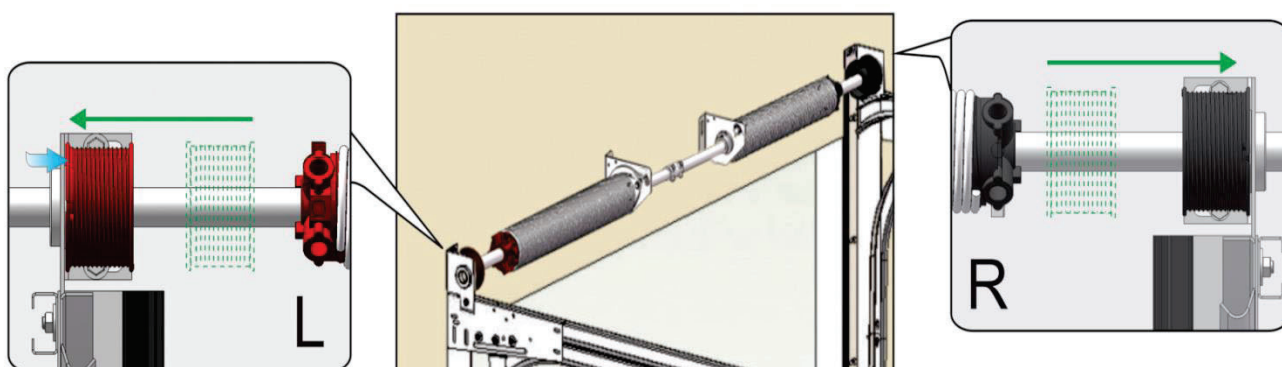


7. Assembling the system with the springs and with the security mechanisms in case of spring breakage

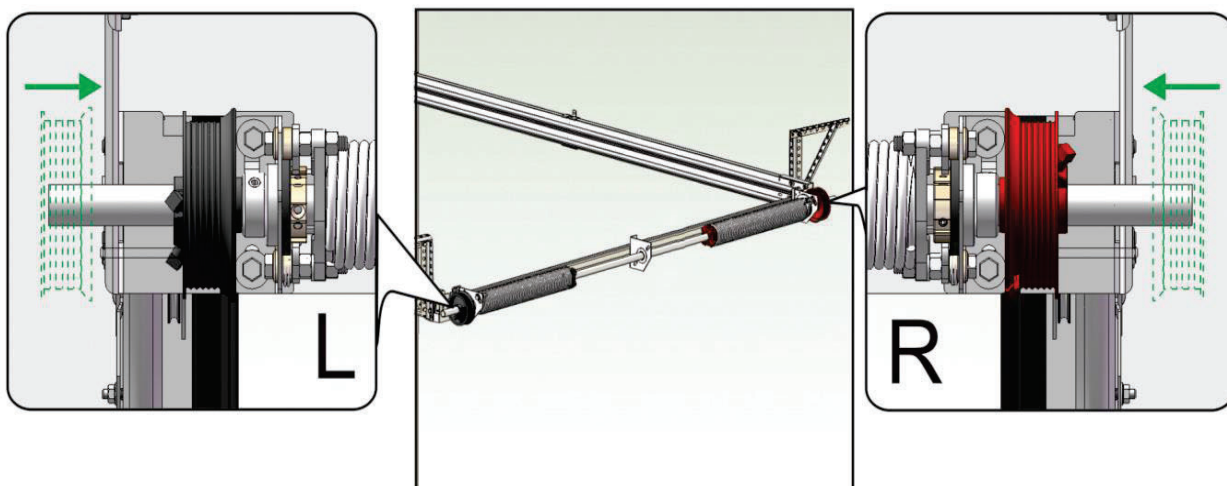
- The system consists of an axle, spring break safety mechanisms, torsion springs, connecting element, drums
- The sectional door can be equipped with one, two, three or four springs
- For both rear and front springs, when we talk about "left" or "right" we mean the point of view of the installer standing under the open door and looking at the springs.
- Bearing in mind the above clarification, all elements (spring ends and drums) painted with **RED** should be mounted on the **LEFT**, and those painted with **BLACK** ON THE **RIGHT**
- The reinforcement of the springs is in accordance with the revolutions marked on the label.
- The revolutions are counted from the vertical **YELLOW** features that are formed during the tension (reinforcement) of the springs
- The direction of reinforcement of the springs is from bottom to top, and the eye is directed to the girder



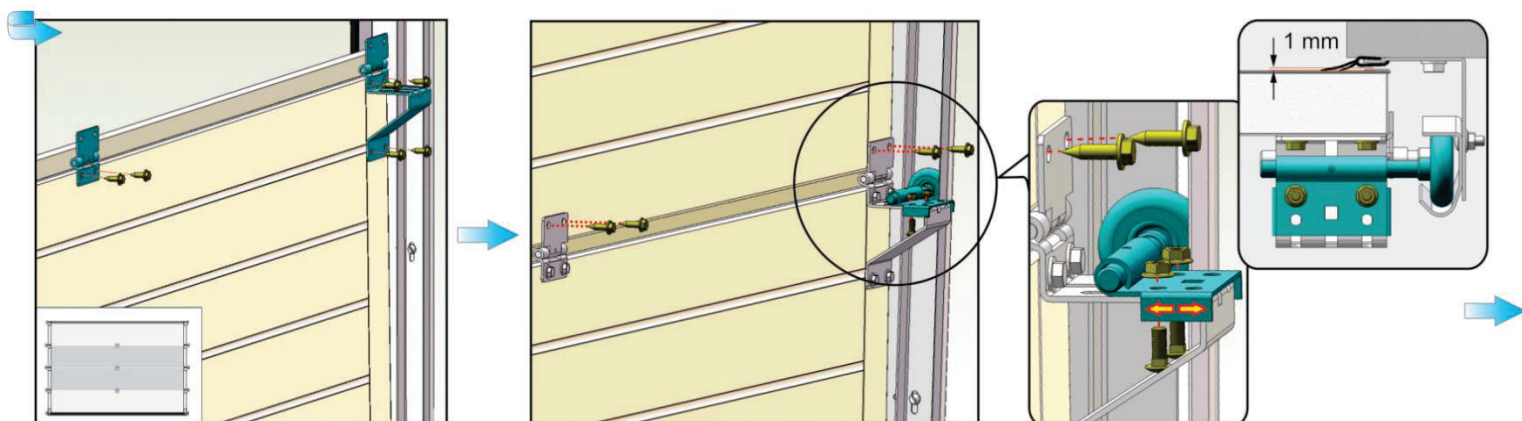
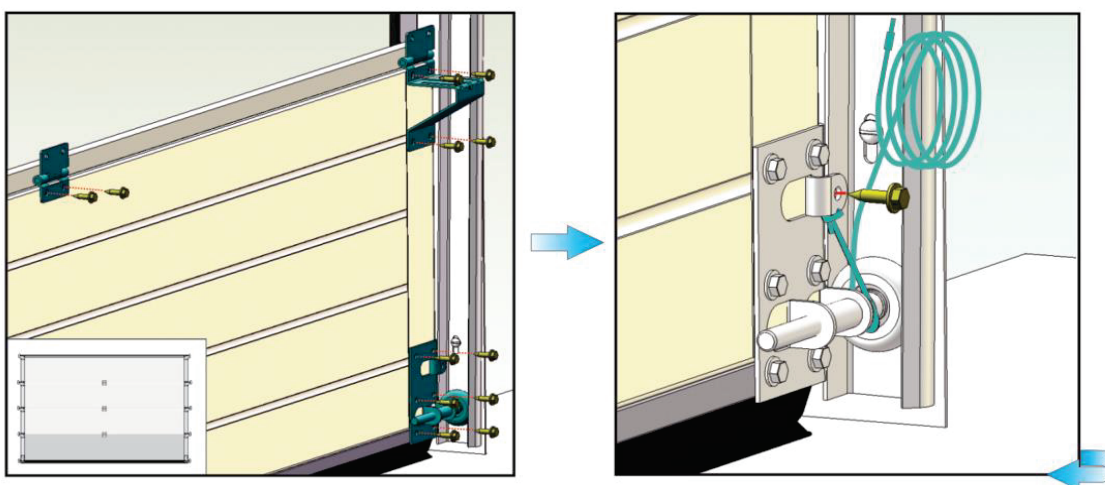
Sliding system LHF



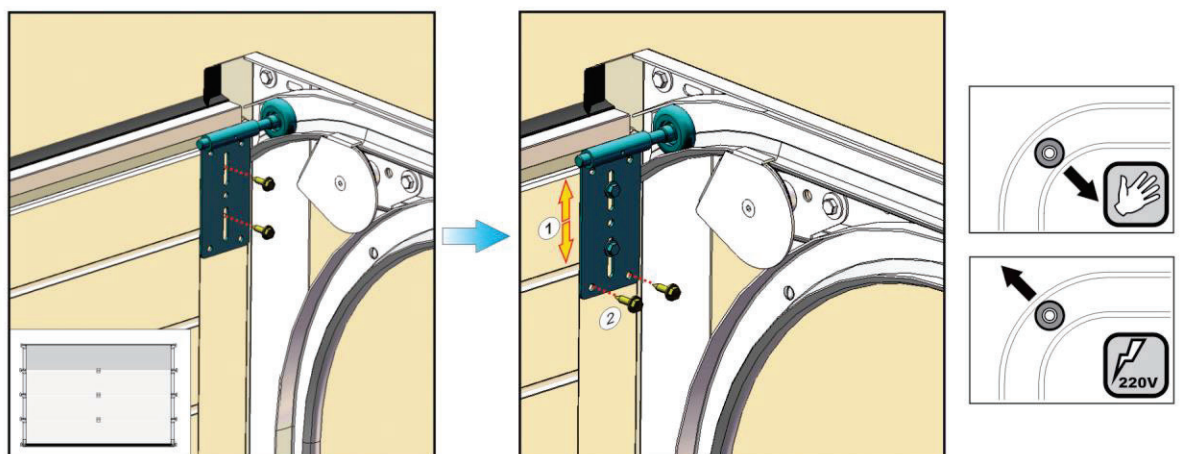
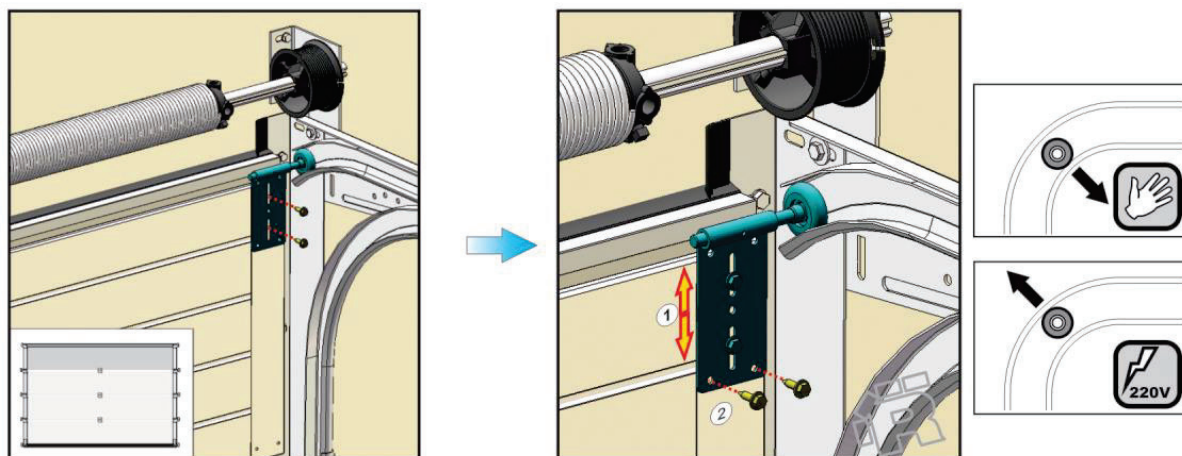
Sliding system LHR



8. Place the hinges on the panels

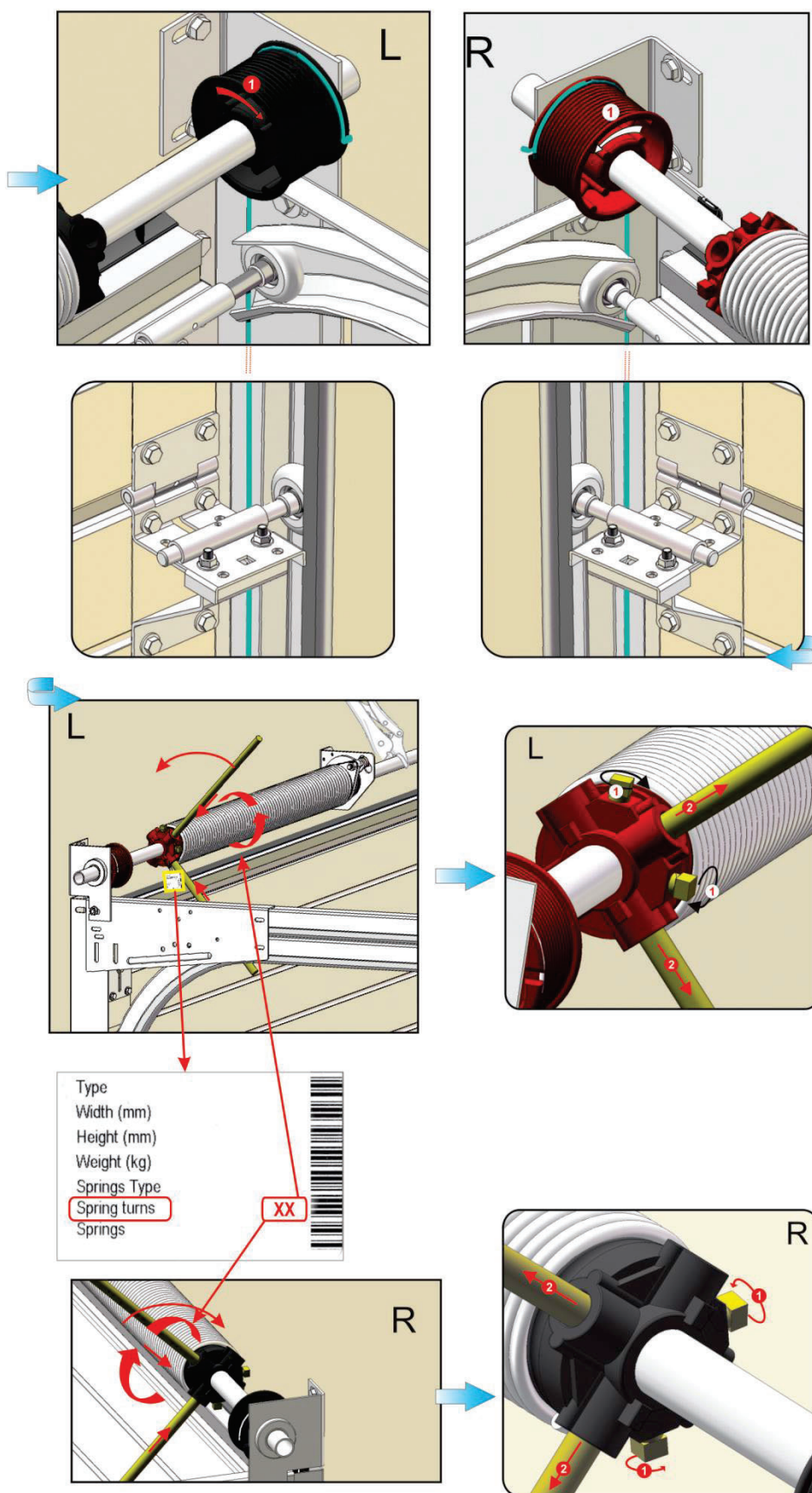


9. Adjusting the top hinge

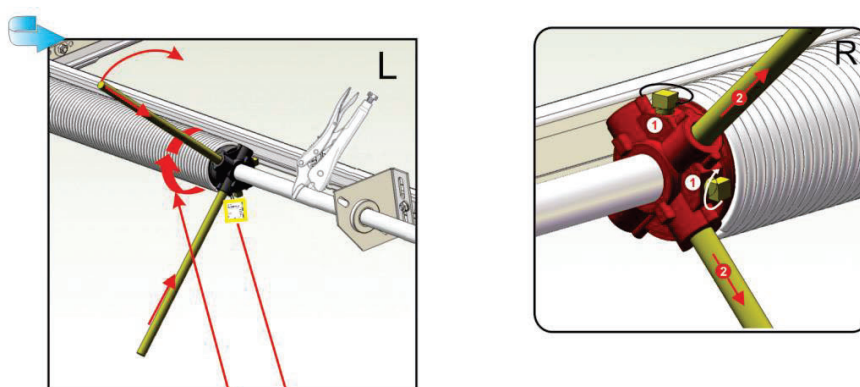
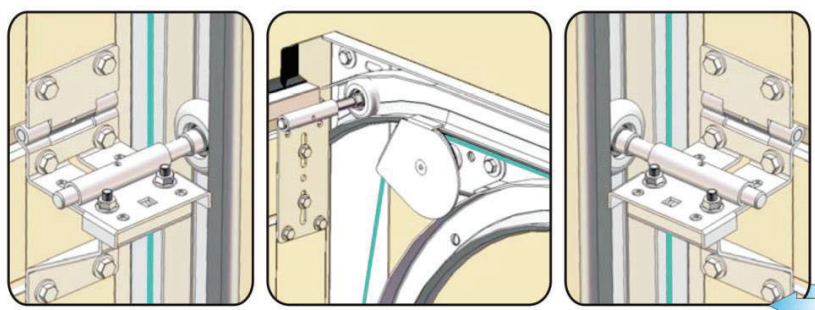
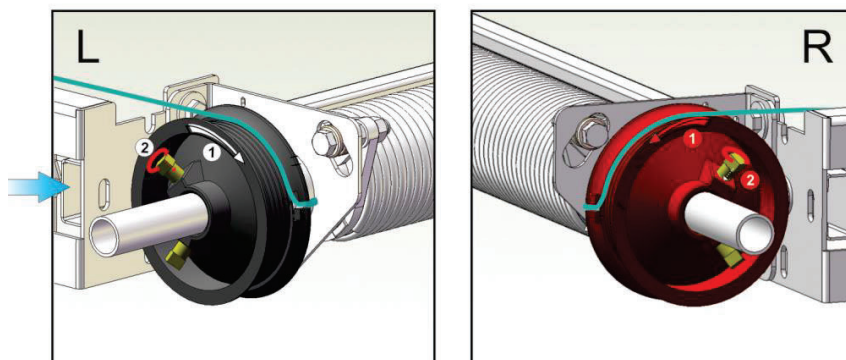


- For the manual Optima system, the upper hinge is adjusted so that the roller is glued to the guide in its lower part.
- For the Optima system in electric version, the upper hinge is adjusted so that the roller is glued to the guide in its upper part.

10. Placing the rope on the drums and reinforcing the LHF spring system



11. Placing the rope on the drum and reinforcing the LHR spring system



Type	
Width (mm)	
Height (mm)	
Weight (kg)	
Springs Type	
Spring turns	XX
Springs	

