

# UP AND OVER GARAGE DOOR

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**WIŚNIEWSKI**

## Assembly and Operating Instructions



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**[A000001] 1. GENERAL INFORMATION**

The door can be installed and adjusted by at least a **COMPETENT** person.

[D000323] Up and over garage door is designed to be used in single-family detached housing.

[B000092] The area to install the door should be free from any pipes, cables, etc.

[A000002] The present Instruction is a document intended for Professional Installers or Competent persons. It contains necessary information to ensure safe installation of the door.

The door and its separate parts should be installed according to Assembly and Operating Instruction provided by WIŚNIEWSKI Sp. z o.o. S.K.A.

Only original fittings supplied together with the door must be used to assemble the door.

Please be familiar with all instructions prior to start with assembly. Please read carefully the present instruction and follow its recommendations. The correct operation of the door depends from its proper installation to a considerable extend.

**The instruction includes the assembly of the door with standard equipment and optional equipment elements. The scope of standard and optional equipment is described in sales offer.**

[B000002] The selection of fastening elements is determined by the type and structure of the construction material to which the door will be fastened essentially. Nail expansion anchors supplied with the door normally are designed to anchor in solid materials with compacted structure (e.g. concrete, solid brick). If the door is mounted to another materials, it is necessary to change the fastening elements for that ones suitable for anchoring in the materials of which the walls and ceiling are made. For this purpose, the installer must follow the guidelines for selection of fastening elements supplied by their manufacturer.

[B000028] Glasses used in glazed elements (windows, aluminium glazed profiles) are made of plastic. The absorbcency of moisture from the air is the natural property of plastic glasses, which in changing weather conditions can result in temporary steam precipitation and settlement inside the glass. Sweating of glass aluminium profiles is a natural phenomenon, and is not subject to warranty claims.

[A000003] The Instruction applies to several types of doors. Reference drawings may vary in execution details. If it is essential, these details are shown in separate drawings.

The Instruction contains all essential information that guarantees safe assembly, operation and proper maintenance of the door.

During the assembly all Health and Safety regulations pertaining to assembly and cutting operations as well as power tools, depending on methods of assembly must be strictly observed, considering the norms, regulations and applicable building process documentation.

During repair works, the door must be protected against plaster, cement and gypsum which may cause stains.

Assembly and Operating Instruction is a document intended for the door owner. Once the assembly works are completed, the instruction should be handed over to the owner. The instruction is to be kept in a safe place and protected against damage.

If elements supplied by the third party manufacturers and suppliers are used during the assembly, the person assembling the door is considered to be its producer according to EN 13241-1.

Tampering and removing of any parts of door is strictly prohibited. It may result in the elements responsible for safe operation being damaged. Unauthorized replacing of doors sub-assemblies is strictly prohibited.

[C000229] Any alterations to the door, e.g. insulation of the door leaf, are strictly prohibited.

[A000042] When installing a drive, recommendations of WIŚNIEWSKI Sp. z o.o. S.K.A., manufacturer of drive and auxiliary equipment should be observed. Only original elements supplied by the manufacturer should be used to connect the drive.

[B000052] It is forbidden to obstruct the door movement area. Therefore, no obstacles may be located in the way of door opening or closing. It is necessary to ensure that during door movement no persons, especially children, or objects are on its way.

**[A000037] 2. TERMS AND DEFINITIONS ACC. TO STANDARD**

Explanation of warning signs used in the Instruction:



**Attention!** – warning sign used to denote the attention.



**Information** – warning sign used to denote important information.



**Reference mark** – sign referring to a given paragraph in the Assembly Instruction.

**Professional Installer** – competent person or organization, offering to third parties door installation services, including its improvement (according to EN 12635).

**Competent person** - an appropriately trained person with qualification resulting from knowledge and practical experience, and provided with necessary instruction to enable the required installation to be carried out correctly and safely (acc. to EN 12635).

**Owner** - a natural or legal person who has legal title to administer the door, and takes responsibility for its operation and use (acc. to EN 12635).

**Report Book** - a book containing the main data about the door, and which has a specially designated places for records about inspections, tests, maintenance and various repairing works or modifications to the door (according to EN 12635).

**[D000324] 3. DESCRIPTION OF SYMBOLS**

So – opening width

Ho – opening height



[D000335]  
City, Novum, Progress, Komfort, Select, Connect



[D000336]  
Komfort, Select, Connect

[A000052]



- option



- manually operated



- automatic

[A000080]



the indoors, or inner side of the door



the outdoors, or outer side of the door



correct position or action



incorrect position or action



supervision



factory settings

**[D000325] 4. DESIGN DESCRIPTION AND TECHNICAL DATA**

Up and over doors are designed as garage doors as standard. The detailed information about the dimensions and technical data are stated in the price list. The door construction is made of galvanized steel closed sections, and is filled with galvanized formed steel sheet (trapezium T-10), coated with polyester paint. The doors may be equipped with wicket door that opens outside, and with glazed elements. The doors are equipped with a set of springs, assisting in

lifting and lowering the door leaf.

[D000326] **4.1. APPLICATION AND DESIGNATION**

Up and over garage doors are designed to be used in private buildings and utility premises.

[B000004] **4.2. SAFETY RECOMMENDATIONS**

Minimum protection levels provided in the door closing edge, according to PN-EN 13241-1.

Door operation method	Usage		
	Trained door operators (private premises)	Trained door operators (public premises)	Non-trained door operators (public premises)
Deadman control with the view of the door (Totmann version)	Push-button control without electric latching	Key-switch control without electric latching	Unacceptable
Impulse control with the view of the door (Automatik version)	(KLB) (BF)	(KLB) (BF)	(KLB) (BF)
Impulse control without the view of the door (Automatik version)	(KLB) (BF)	(KLB) (BF)	(KLB) (BF)
Automatic control (Automatik version - automatic closing)	(KLB) (BF)	(KLB) (BF)	(KLB) (BF)

(KLB) - safety edge - obligatory      (BF) - photocells - optional  
 (BF) - photocells - obligatory

[A000005] **5. ASSEMBLY RECOMMENDATIONS**

Prior to assemble and operate the door, the guidelines contained in this instruction should be read carefully. All assembling and operating instructions must be strictly observed. It ensures the correct assembly, and durable and failure-free operation. All works related to door assembly must be carried out in described order.

[A000006] **6. REQUIRED ASSEMBLY CONDITIONS**

The door should be used and operated in compliance with its intended use. Selection and application of doors in construction industry should be based on technical documentation of the facility developed in compliance with regulations and standards in force.

[B000005] The doors can be mounted to reinforced concrete walls, those made of bricks, or steel framework. A room intended to mount the doors should be finished completely (plastered walls, finished floor), walls must not have any faults in quality of work. The room should be dry and free of chemicals being harmful for coating paints.

Both side walls, and frontal wall and door assembly opening lintel must be vertical and perpendicular to the floor, and must be finished.



**It is prohibited to mount the door in a room in which finishing works are still to be done (plastering, gypsum finishing, grinding, painting, etc.).**

Floor in bottom sealing area must be levelled and constructed in such a way as to ensure free water drain. Appropriate ventilation (drying) of garage must be ensured.



- **Installing of electrical drive unit to the door by professional installer or competent person is to be done according to the Assembly and Operating Instruction of the drive unit.**
- [C000184] **It is prohibited to open the door leaf without guides mounted.**
- [C000230] **It is prohibited to carry the door with its external plating looking downwards.**

[B000009] **Safety Conditions**

- The methods of electrical installation as well as its protection against electric shock are described by the norms and regulations in force.
- The power supply circuit of the drive should be equipped with power cut, residual-current device and overload circuit protection.
- The door power supply should be done as a separate power circuit.
- Grounding of the drive unit is obligatory and should be done in the first place.
- Only cables supplied together with the drive by WIŚNIEWSKI Sp. z o.o. S.K.A. should be used to assemble the drive unit.
- Electrical installation should be done according to the acting regulations of a particular country.
- All electrical works must be performed by certified installer only.

[D000001] **7. ASSEMBLY INSTRUCTION**

The correct operation of the door is closely connected with its proper assembling. WIŚNIEWSKI Sp. z o.o. S.K.A. recommends the authorized assembly companies. Only the proper assembly and maintenance according to the Instruction and provided by the competent company or person may guarantee safe and designated operation of the door.

Please keep the list of garage door's component parts (specification).

[D000327] **7.1. ASSEMBLY PROCEDURE**

Fig.0.2. Prior to installation works, check the dimensions (width and height) of the assembly opening.

Fig.0.3. If necessary, finish the opening so as to ensure that door frame fits in it with clearance allowing to adjust the door horizontally and vertically in the opening plane.

Fig.1-3. Position the door vertically and horizontally during the first stage of installation. Check whether door leaf adheres to the frame along the whole perimeter. If necessary, a deviation in the door setting of up to 2 [mm] per 1 [m] is acceptable, provided that door leaf works with the frame properly. In case if there is too much friction between door leaf and frame, check if the guides are positioned perpendicular to the door lintel (or check diagonals of the guides). If these conditions are fulfilled, it is allowed to bend the arms so as to correct the door operation.

Fig.4-15. Carefully perform further installation operations shown on Figures. Fig.8-9. Check the diagonals of the horizontal guides. Mount the guides to the ceiling with fastening brackets.

Fig.4,11,12. Mount the door using mounting anchors. The number of anchors is adjusted to the number of door mounting plates.

Fig.13.1. After mounting, cut the protruding parts of the brackets, bunt its edges and protect the edges with paint.

Fig.13.3. Mounting of horizontal guides to the ceiling with two sets of fastening brackets.

Fig.16. Mounting of additional latch bolting.

Fig.17. Mounting of the door with brush sealing. Dismantle the door threshold, and then mount the door using mounting anchors. The door is mounted directly to the ground.

Fig. I. When the door installation is complete, check, whether the door operates according to the Assembly and Operating Instruction. If necessary, make corresponding adjustments. Check the correct tension of springs, and, if necessary, adjust it (any adjustments of the door could only be made when the door is in its full open position and secured from uncontrolled closing). To do this:

- open the door by lifting its leaf to half-open position (approx. 45° angle),
- if the leaf is visibly falling, increase the spring tension by regulating the springs according to fig. I.I - I.II, or if needed, regulate by changing the location of the tension screw as on fig. I.III,
- if the leaf visibly lifting, decrease the spring tension by regulating the springs according to fig. I.I - I.II, or if needed, regulate by changing the location of the tension screw as on fig. I.III,
- It is obligatory to change the self-holding screw nut for new one, when regulating as per fig. I.III

Fig.30. Installation of the door with renovation frame.



**The screw nut is working properly only as a disposable!**

[D000328] **7.2. FAULTS DURING DOOR INSTALLATION**

There is a risk that some faults may occur during door installation, which could be easily avoided, provided that:

- door guides had diagonals and were parallel to each other,
- door leaf had diagonal in its closed position,
- side tolerances between the door frame and leaf were equal on both sides,
- all mounting elements are assembled properly.

Non-observation of the above basic recommendations may lead to troubles in door operation, door damage

[A000007] **8. ADDITIONAL REQUIREMENTS**

After the installation is completed, it must be checked that the door is fitted with CE name plate according to the standard, and if it is missing, fit the door with name plate. After verifying the correct operation of the door, the Assembly and Operating Instruction and door book, if required, should be handed over to the Owner.



- [B000013] When the door is installed, the protective foil should be immediately removed from the door leaf. Failure to do so will result in a strong adherence of the foil to the door sheet metal under the influence of sun rays. This will make it impossible to remove the foil

and may lead to paint coating deterioration.

- Doors with electric drive must be operated according to Assembly and Operating Instruction of the drive.

## [A000008] 9. ENVIRONMENTAL PROTECTION

### Packaging

Elements of packaging (cardboard, plastics, etc.) are classified as waste suitable for recycling. Follow local legislation for specific material before throwing it away.

### Scrapping of equipment

The product consists of many different materials. Most of the materials used are suitable for recycling. Sort it before disposal, and then deliver to refuse collection and disposal area for recycling.



**Follow local legislation for specific material before scrapping.**



**[A000009] Remember! Recycling of packaging materials saves natural resources and reduces the amount of waste material.**

[A000118] This equipment is labelled according to the Waste Electrical and Electronic Equipment Directive 2012/19/EC.

This labelling states that once used, the equipment must not be disposed of with household waste. The equipment user must bring the waste equipment to authorised WEEE collectors. The collectors, including local collection points, retailers and community units form an appropriate system for handing over the WEEE. Proper disposal of waste electrical and electronic equipment helps avoiding the consequences to human health and environment cause by hazardous components and improper landfilling or processing of waste equipment.

## [D000329] 10. DISASSEMBLY OF THE DOOR

1. Close and bolt the door.
2. Remove brackets and guide.
3. Pull out the door from the opening. Always keep it with the plating upwards.
4. Protect the leaf against its uncontrolled opening before transport.

## [D000330] 11. OPERATING REMARKS

The basic conditions for the proper door usage that guarantee its durable and trouble-free operation:

- provide free water drain in the area of bottom sealing,
- protect the door against harmful agents (including corrosive agents, like acids, alkali, salts), which may damage the paint coating and metal,
- protect the door against plaster, paints and solvents which may cause stains, during finishing works,
- the springs counterbalancing the door leaf are designed for 10 000 cycles, as standard. When the door completes the designated amount of cycles, the springs must be definitely replaced,
- doors with electric drive must be opened according to the Instruction provided with the electric equipment,
- check the proper door installation if the excessive resistance during opening the door is observed. If necessary, carry out the adjustments as stated in the assembly instruction,
- it is prohibited to open the door equipped with the wicket door, unless the wicket door is closed with the key.

## [B000170] 12. THE RANGE OF ENVIRONMENTAL CONDITIONS, FOR WHICH THE DOOR HAS BEEN DESIGNED

- Temperature - -30° C to +50° C
- Relative humidity - max. 80% not condensed
- Electromagnetic fields - not applicable

Refers to manually operated doors. The range of environmental conditions for the doors with drive is stated in the Assembly and Operating Instruction of the drive.

## [A000029] 13. OPERATING AND MAINTENANCE INSTRUCTION

The Assembly and Operating Instruction is a documentation intended for the door owner.

Please read carefully this instruction and follow its recommendations. The instruction includes information ensuring safe usage, operation and maintenance of the door.

## [A000010] 14. IMPORTANT INFORMATION AND NOTES



- Please carefully keep this instruction.
- All operation activities must be performed according to the door Assembly and Operating Instruction.
- Occupational health and safety regulations and recommendations included in the Assembly and Operating Instruction must be observed during all works related to the door inspections and repairs.
- It is prohibited to change any door components or parts.



## [B000006] Information regarding forbidden door usage

- It is forbidden to open the door without guides mounted.
- It is forbidden to obstruct the door movement area. When operating the door, make sure there are no people, especially children, or objects within the door movement area.
- It is forbidden for people to stay, or leave cars or other objects in a clearance of the opened door.
- It is prohibited to stay, walk, run or drive under the moving door.
- It is prohibited to use the door leaf to lift objects or people.
- Do not allow children to play with equipment. Transmitters to operate the door the door must be kept away from children. Transmitters should be kept in dry, moisture-free places.
- It is forbidden to modify or remove any door components! This may cause damage to parts ensuring the door safe usage.
- [B000010] It is forbidden to install any additional thermal fillings or insulation in the door leaf without a written consent of WIŚNIO-WSKI Sp. z o.o. S.K.A. Springs are precisely adjusted to the door leaf weight, and all additional mounted elements may cause its overload and incorrect door operation.
- [B000013] When the door is installed, the protective foil should be immediately removed from the door leaf. Failure to do so will result in a strong adherence of the foil to the door sheet metal under the influence of sun rays. This will make it impossible to remove the foil and may lead to paint coating deterioration.
- Doors with electric drive must be opened according to Assembly and Operating Instruction of the drive.
- [B000008] The door should be protected against harmful agents (including corrosive agents, like acids, alkali, salts), which may damage the paint coating and metal. The door should also be protected against plaster, paints and solvents which may cause stains during finishing or repairing the room.

## [C000011] 15. DOOR OPERATING INSTRUCTION



- **It is prohibited to obstruct the door movement area.** The door is opened vertically upwards. Therefore, no obstacles may be located in the way of door opening or closing. It is necessary to ensure that during door movement no persons, especially children, or objects are on its way.  
**Caution! Risk of accident.**
- [A000063] It is prohibited to keep using the defective door. It is particularly forbidden to operate the door, if there is any visible damage of counterbalancing springs, mounting elements or any other parts responsible for safe door operation.
- [B000007] It is prohibited to keep using the door, if any faults in its operation, or damage of its components are found. In this case, immediately put the door out of service, and contact the authorized service centre.

## [C000012] Check the proper mounting of the door according to Assembly and Operating Instruction before its first opening.

The door is mounted properly when its leaf/curtain moves smoothly and its operation is easy.

[C000399] **Opening** - the door should be operated manually, using the relevant outside or inside handles/ pulls. Improper operation of the door may cause accident.

**Closing** - the door should be closed manually by pushing it vigorously using the handle. As a result, the door self-locking bolts will latch on proper door frame elements.

**Door bolting (lock)** - as standard the door is equipped with a lock, which may be bolted by turning the key counter clockwise 360° (if the door does not feature a drive unit).

**Door unbolting (lock)** - use the key or blocking bolt:

- from outside - turn the key 360° clockwise,
- from inside - move upwards the blocking bolt, located next to the lock insert, and simultaneously turn the handle to the right.

## [C000088] Wicket door

- Wicket doors may only be opened manually by pushing the handle in the direction of door opening. Wicket door should be opened and closed smoothly, without sharp jerks that negatively influence its durability, operation and safe usage.
- Wicket doors are mounted and adjusted properly, if the leaf moves smoothly, and its operation is easy.
- Avoid strong striking the door leaf against frame, so called „door banging“, that may result in cracking of paint coating and glazing, in door leaf deformation, and negatively influence operation of hardware, hinges, and gaskets.

- It is prohibited to overload the wicket door leaf, leave the objects within the door leaf movement area as well as operate the door by force.
- [C000089] It is recommended to equip the wicket door with self-closer, which should only be used for self-closing of the wicket door after its previous manual opening.
- [C000090] Each time before operating the door, it is necessary to make sure that the wicket door is closed. Wicket door installed in the door with electric drive must be equipped with limit switch, which prevents the drive switching-on if the wicket door is open.
- [C000091] It is prohibited to apply extra force (other than the self-closer) to fully close or speed up the wicket door closing, that may result in damage or poor adjustment of self-closer.



[C000209] **It is prohibited to put any objects between the opening or closing door leaf and frame.**  
**Caution! Risk of accident.**

[C000050] **16. ROUTINE MAINTENANCE INSTRUCTION**  
**Activities, which may be performed by the Owner after careful reading of the Instruction supplied with the door:**

[C000055] The external door leaf surface shall be cleaned with a sponge and clean water, or lacquer-cleaning agents available in stores. Do not use cleaning agents, which may scratch the door surface, sharp tools, or the nitro solvent-based cleaning preparations.

At least once for 6 months carry out the door periodic inspections including:

- Hinged connections, rollers, springs and guides should be lubricated with a semi-oily grease, such as HWS-100 Würth, before starting the door and during operation if needed.
- Do not oil the lock barrel insert. If needed, use the graphite grease.
- During the inspections, check the elements mounting the door to wall, screws, guiding rollers. Immediately eliminate any irregularities. It is forbidden to operate the door, if the irregularities are not eliminated.
- In case of any irregularities or damages of door components, stop using the door and contact the authorised service centre.
- Check the drive mounting.

[B000029] Dry, clean and very soft, preferably cotton fabrics, must be used to clean the panes in glazing (windows, glazed aluminium profiles). Non-scrubbing cleaning agents, e.g. wash-up liquid with neutral pH value may be used, but it is recommended to perform a trial on a small surface previously. The pane must be rinsed with water thoroughly before cleaning (it is not recommended to use high-pressure cleaning appliances) in order to remove particles of impurities and dust that may cause scratching of pane surface. It is not recommended to use cleaning agents that contain alcohol or solvents (they cause permanent tarnishing of pane surface).

[C000017] **Activities, which may be performed by the Competent Person having correspondent permissions.**

[D000332] The door maintenance should be performed at least once for 12 months. The following activities to be performed during the door routine maintenance:

- Check spring tension – for this purpose, open the door leaf by lifting the leaf to half-open position (approx. 45°):
  - if the leaf is visibly falling, increase the spring tension by regulating the springs according to fig. 1.II,
  - if the leaf is visibly lifting, decrease the spring tension by regulating the springs according to fig. 1.II.



**If the above mentioned works are not performed, there is a risk that the leaf may suddenly drop and hurt people, or cause damage to objects in its vicinity.**

- Check the condition of spring covers and correct if necessary.
- Check the rollers during opening and closing for correct and smooth rotations. If the rollers put resistance or do not rotate at all, check their condition, and rolling surfaces in particular. If necessary, replace entire assemblies.
- Check the mechanical components ensuring safety and correct door operation. In case of any failures, these must be immediately eliminated and faulty components and parts should be repaired or replaced.
- Check the condition of springs.

[D000333] **Activities, which may be performed by the Professional Installer:**

Any alterations and modifications to the door should be agreed on with WIŚNIOWSKI Sp. z o.o. S.K.A.

The range of works covered with the door periodical inspection provided by an authorised service centre of WIŚNIOWSKI Sp. z o.o. S.K.A.

- Identify the door type, serial number.
- Check the door marking, warning labels. Add new ones, if missing.

- Check the connection parts used in the door: anchors mounting the door to wall, screws mounting the guides.
- Check the springs and elements working with them. In case of evident wear and tear signs, the elements should be absolutely replaced.
- When the door is used longer than 12 years, or if the door made more than 10 000 cycles (the number of cycles should be estimated on the basis of the interview with the door owner) - the springs should be absolutely replaced.
- Pay attention to conditions, in which the door is operated. If the conditions are different from the required operation conditions, the owner should be informed about possible consequences (e.g. about failure occurrence possibility).

[C000232] **Activities, which may be performed by the authorized service centre of WIŚNIOWSKI Sp. z o.o. S.K.A.**

- any modifications to the door,
- changing the springs counterbalancing door leaf,
- repairing works of electric components,
- repairing works of door components.



**Disconnect power supply of the drive when performing any door maintenance and inspection works. Fastening of springs counterbalancing the door leaf can only be loosened when the door is fully open.**

[A000011] All works must be performed according to this Assembly and Operating Instruction of the door. Any comments or recommendations must be submitted to the Owner in writing, e.g. to be noted in report book of the door or warranty card, and submitted to the door Owner. Upon performing the inspection, this fact must be confirmed by corresponding note in report book or warranty card of the door.

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 [A000012] **WIŚNIOWSKI Sp. z o.o. S.K.A. reserves the right to introduce design modifications due to technological progress that do not alter the product functionality, without prior notice.**

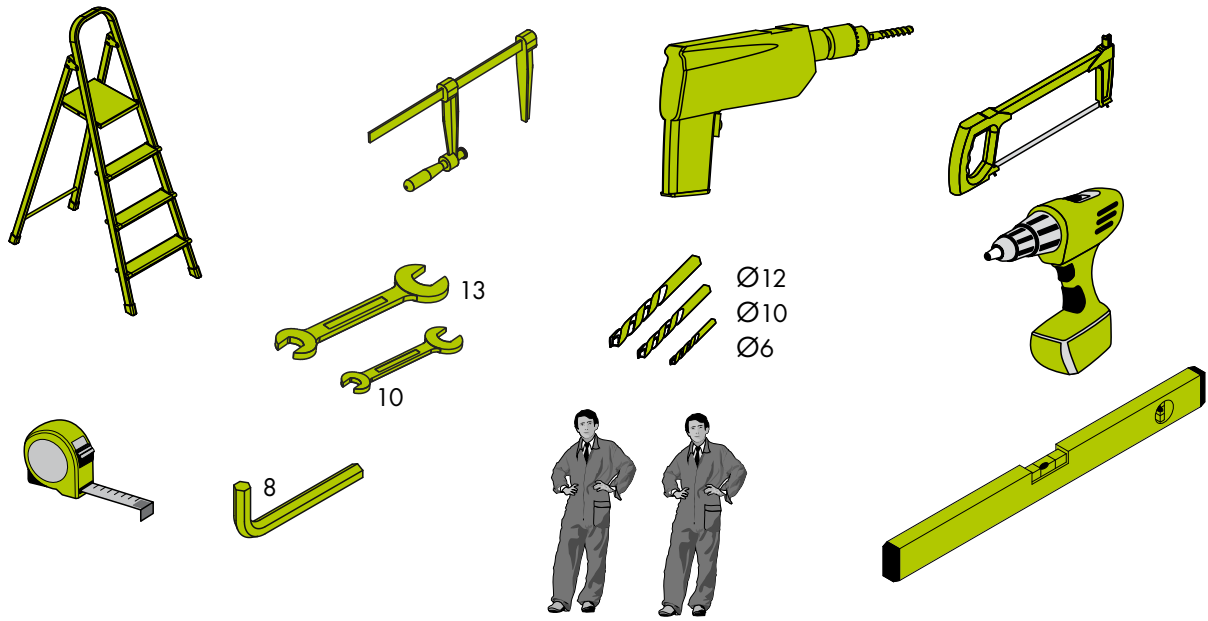
**This documentation is copyright of WIŚNIOWSKI Sp. z o.o. S.K.A. Copying, reproduction and usage in full or in a part without the written consent of the owner is prohibited.**

[A000048] **This document has been translated from Polish. In case of discrepancies, the Polish version prevails.**  
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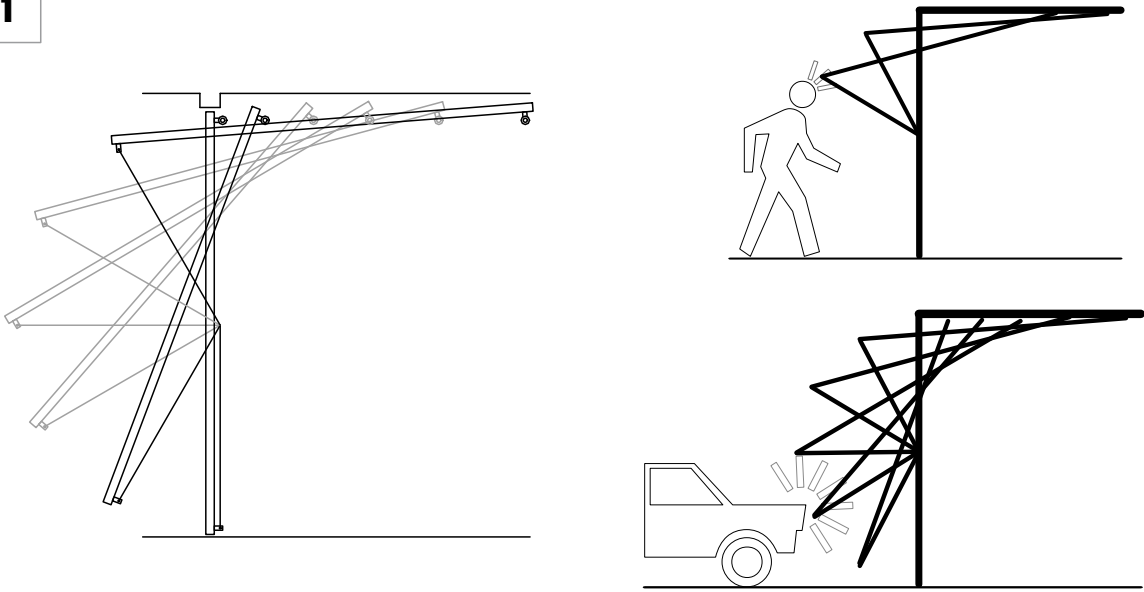
## [D000334] 17. FREQUENTLY ASKED QUESTIONS

Cause	Solution
The door opens difficultly/ suddenly drops. The door leaf is not balanced (the door drops or opens by itself).	<ul style="list-style-type: none"> <li>• Check the spring tension. For this purpose, open the door to its half open position, the door should remain in this position. If the door clearly drops, increase the spring tension. If the door clearly raises, decrease the spring tension.</li> </ul>
High resistance is observed during door operation. The door leaf does not open smoothly.	<ul style="list-style-type: none"> <li>• Check the rollers during opening and closing for correct and smooth rotations. If the rollers put resistance or fail to rotate, they should be adjusted and lubricated.</li> <li>• Check the guides for dirt that may cause incorrect door operation.</li> <li>• Check the proper mounting of guides (diagonals).</li> </ul>
The lock does not open/ close. Incorrect operation of the lock.	<ul style="list-style-type: none"> <li>• Lubricate the barrel insert with graphite grease.</li> <li>• Check the operation of a bolt. Lubricate, if any resistance is observed.</li> <li>• Check the correct mounting of the lock connector with bolt.</li> <li>• Check the operation of lock blocking latch.</li> </ul>
Bolts do not latch the door.	<ul style="list-style-type: none"> <li>• Check the operation of bolts, and lubricate, if necessary.</li> <li>• Check the connection of latches with the door lock. In case of doors equipped with rope, increase the rope tension, if necessary. In case the door is equipped with rod, replace the rod.</li> </ul>
Bolts do not lock the door, in case of door with drive.	<ul style="list-style-type: none"> <li>• Check the limit switch.</li> <li>• Check the position of microswitch for the mode of up and over door.</li> <li>• Check the tension of the rope between the lock and drive, and adjust, if necessary.</li> </ul>

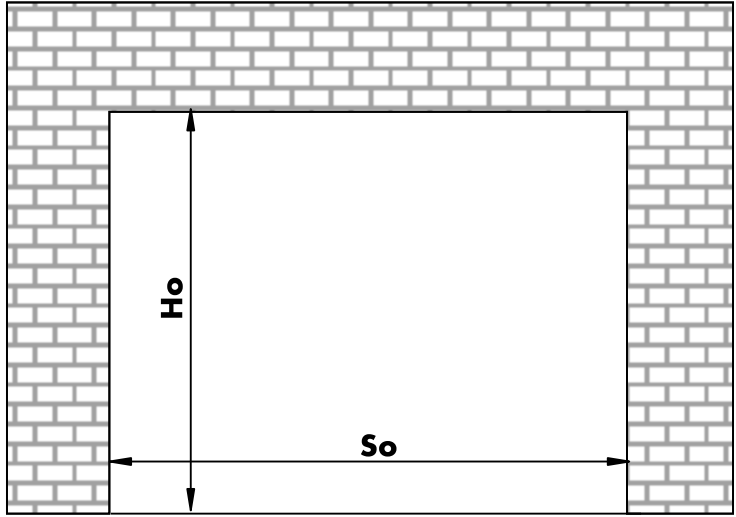
In case of any doubts, or if a cause remains unsolved, please contact the authorized service centre.



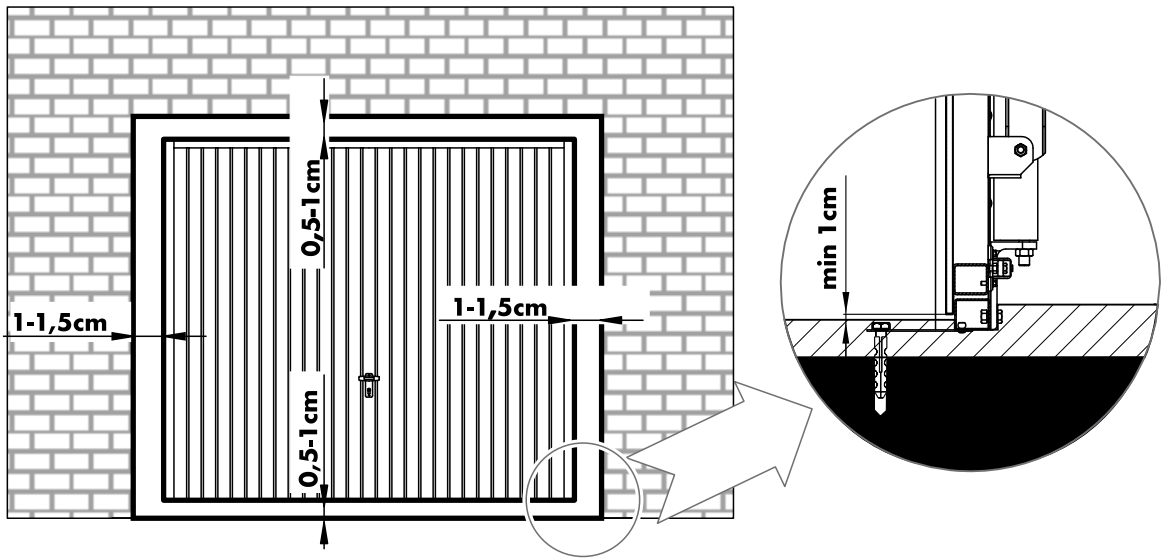
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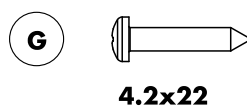
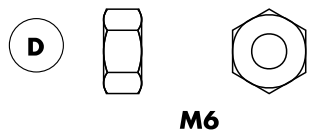
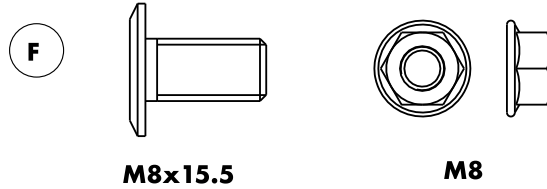
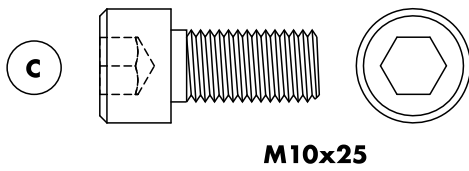
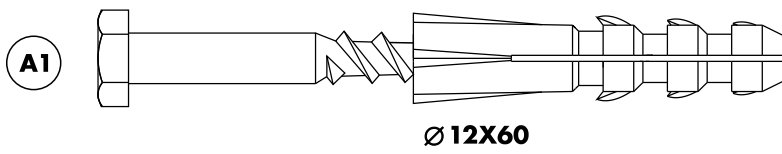
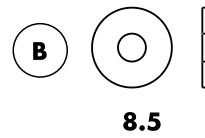
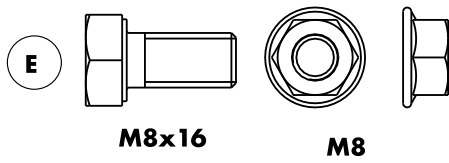
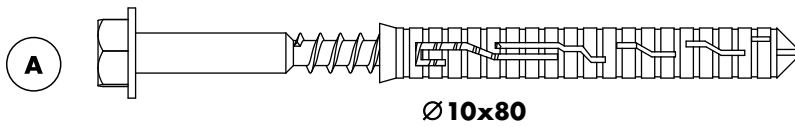
**0.2**



0.3

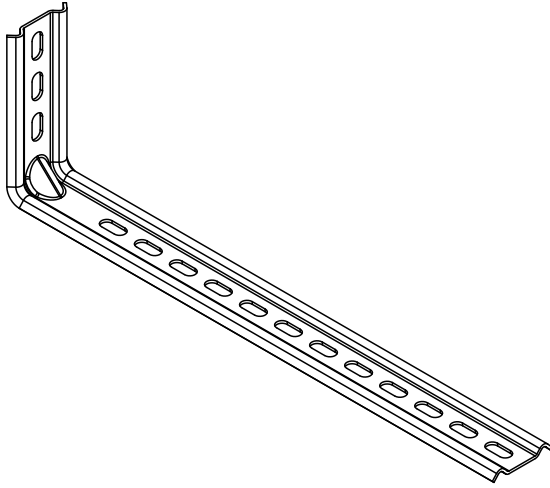


0.4

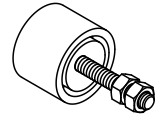




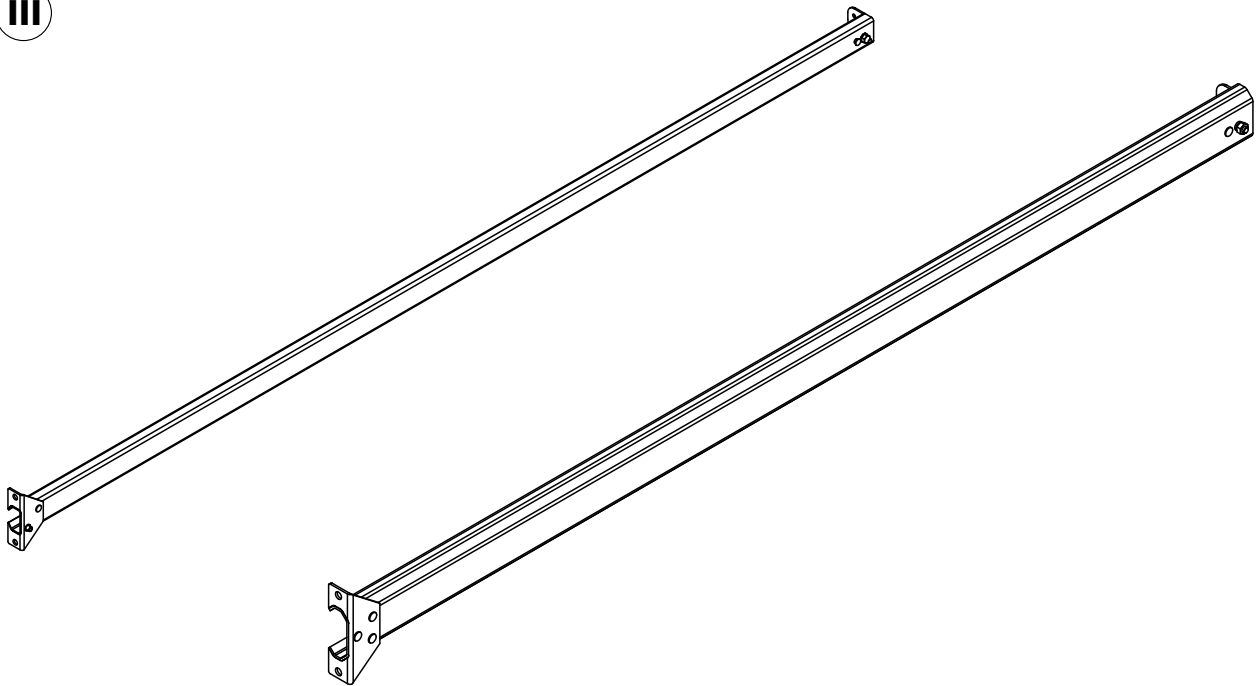
I



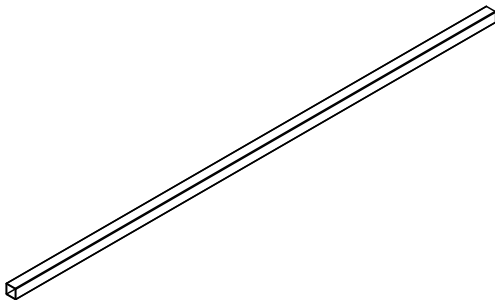
II



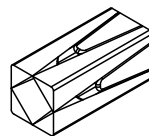
III



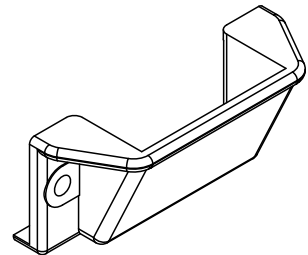
IV



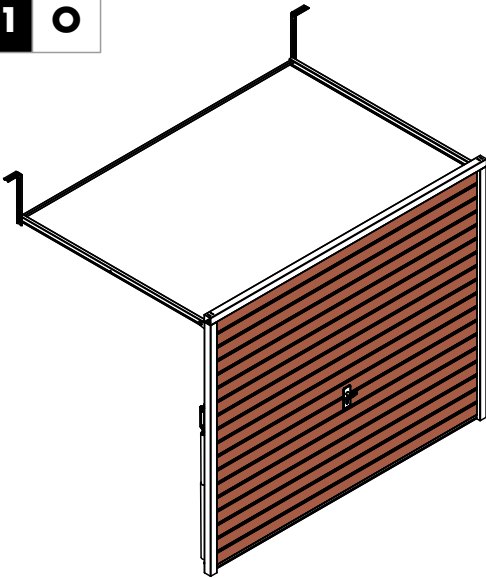
V



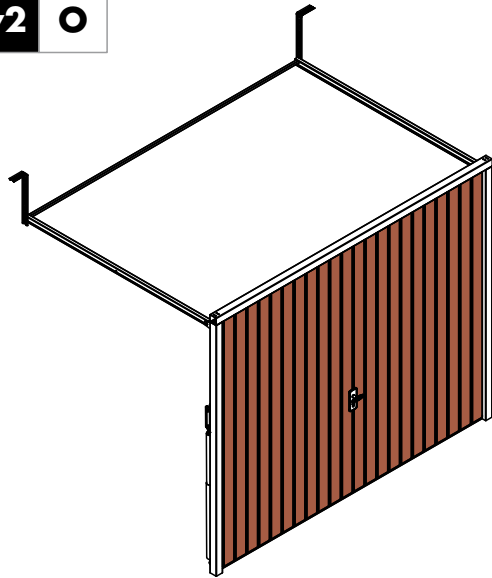
VI



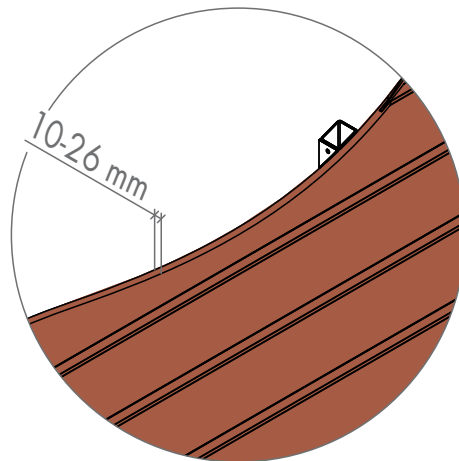
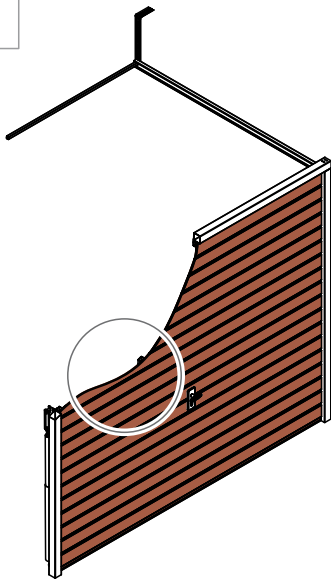
v1 ○



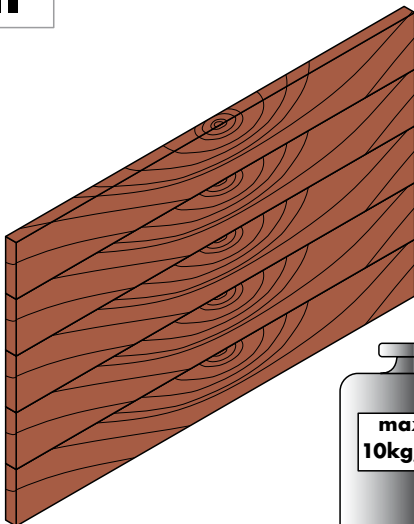
v2 ○



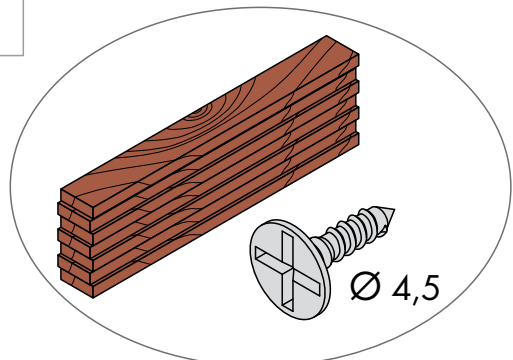
I



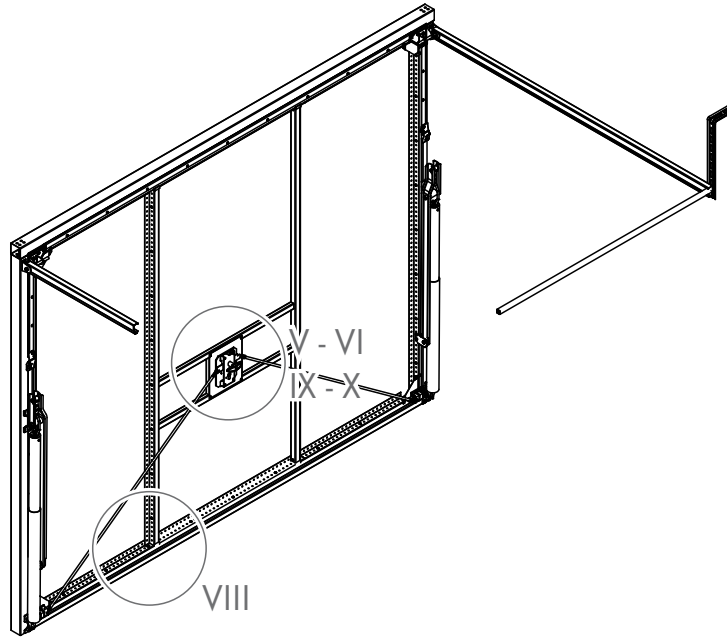
II



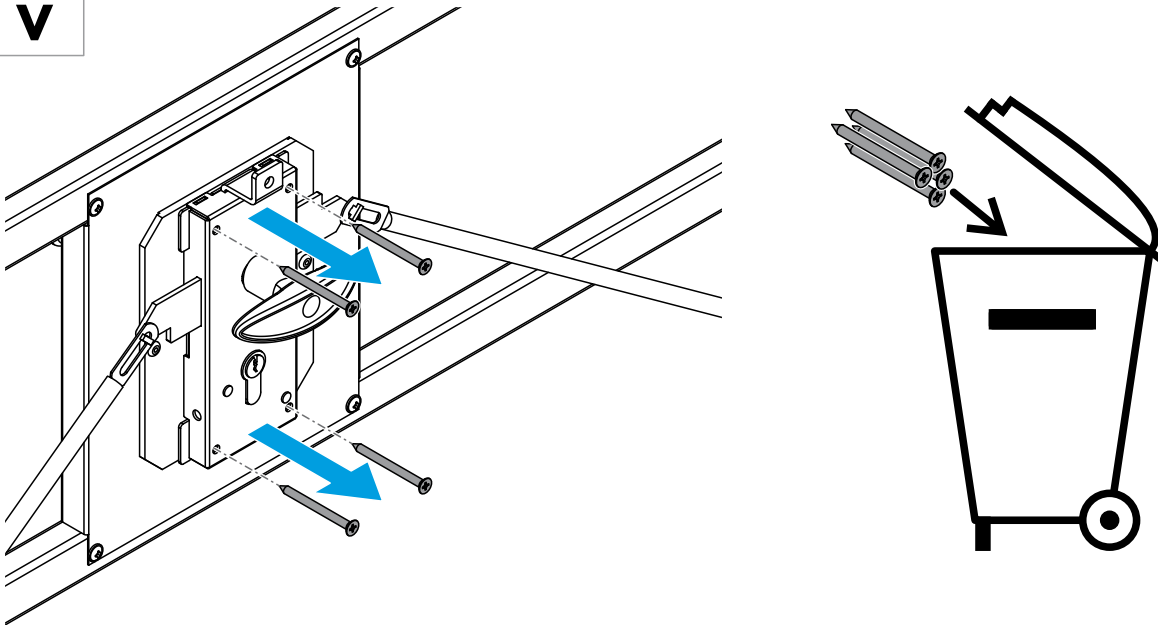
III



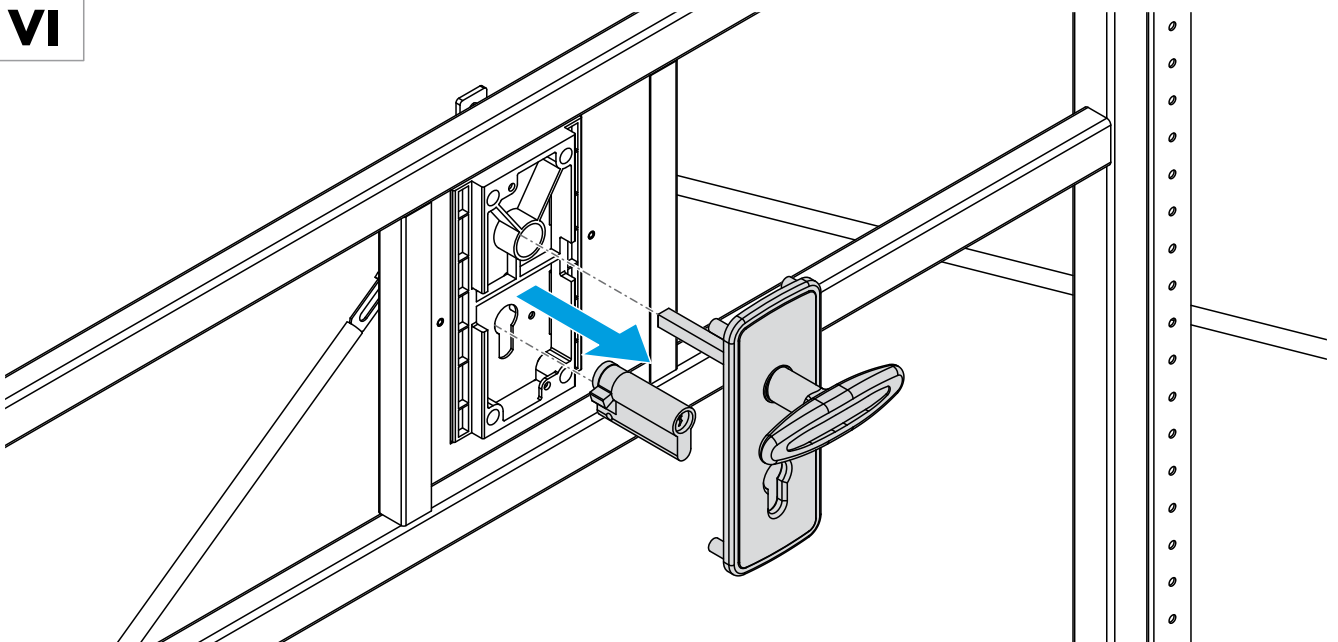
**IV**



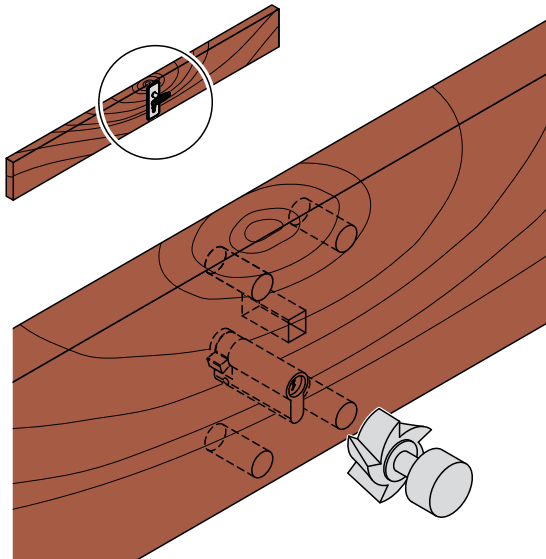
**V**



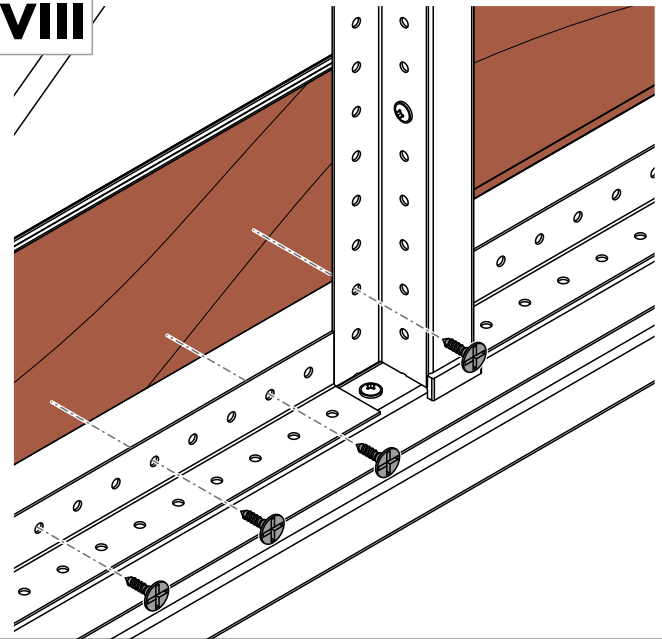
**VI**



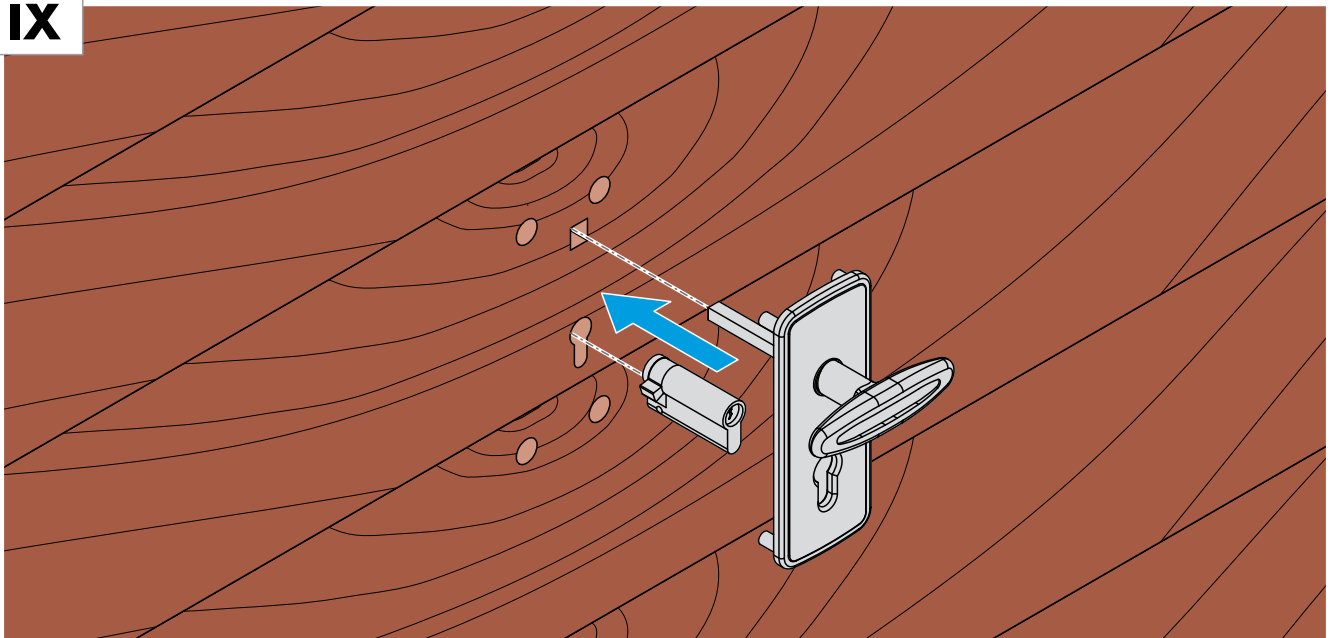
**VII**



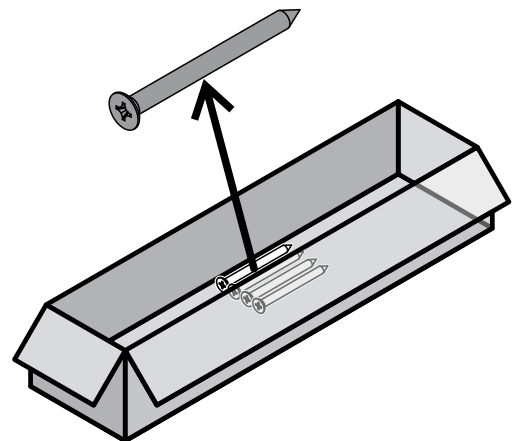
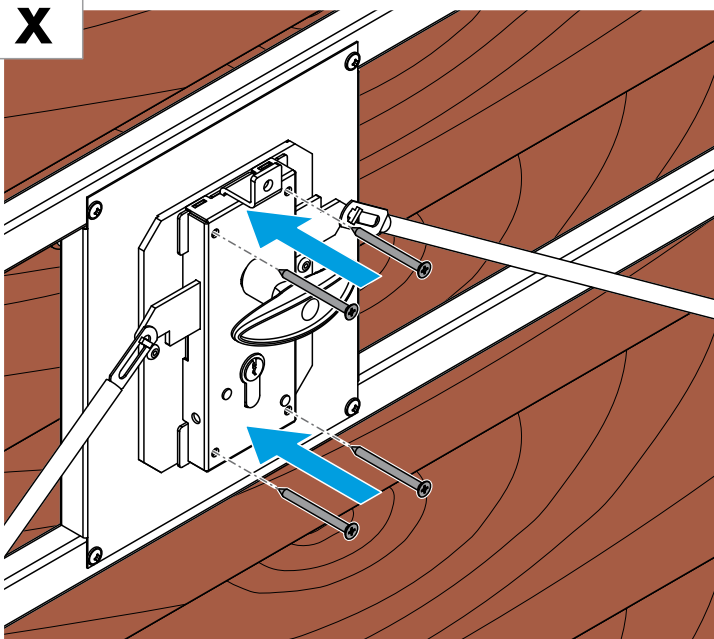
**VIII**



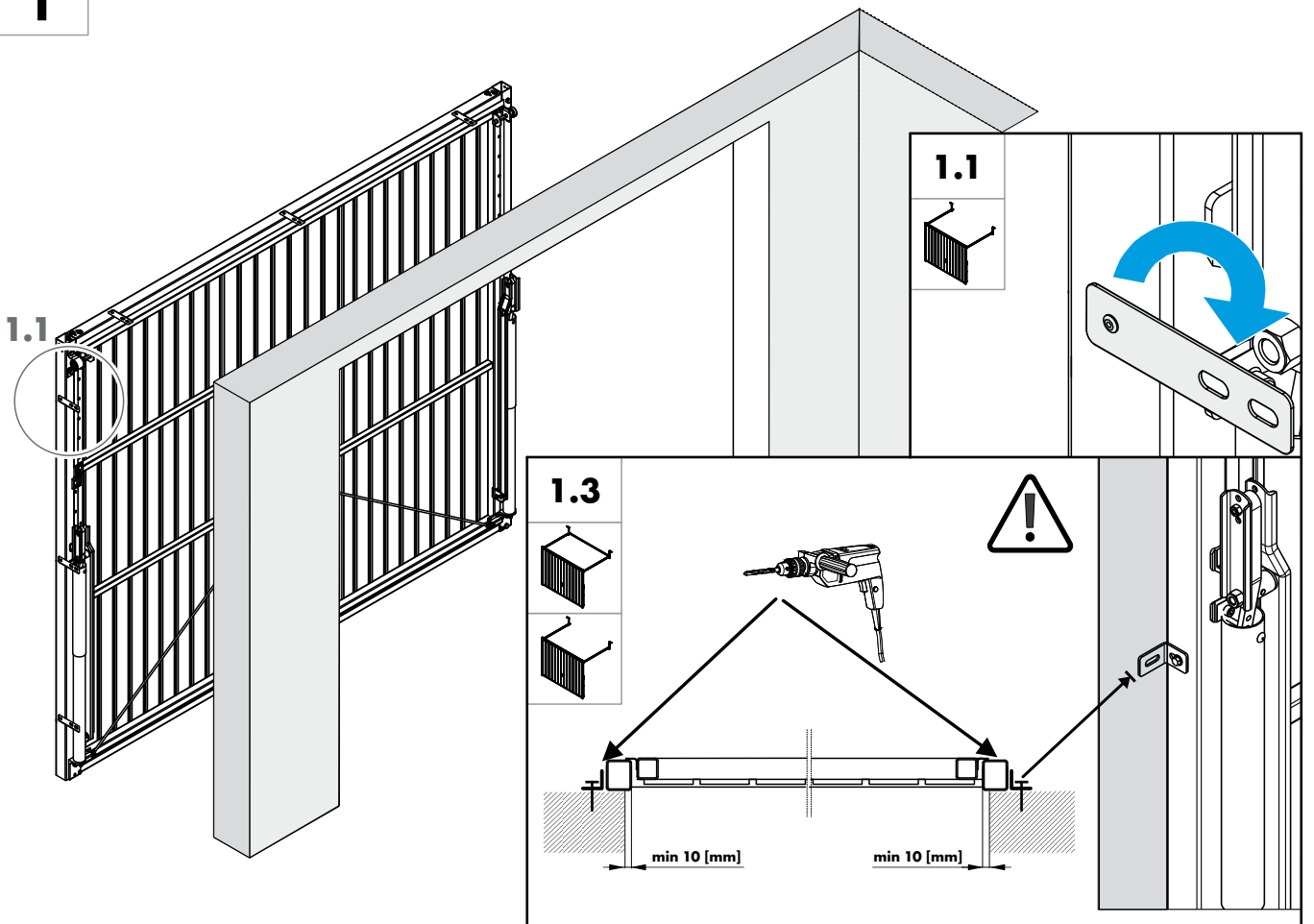
**IX**



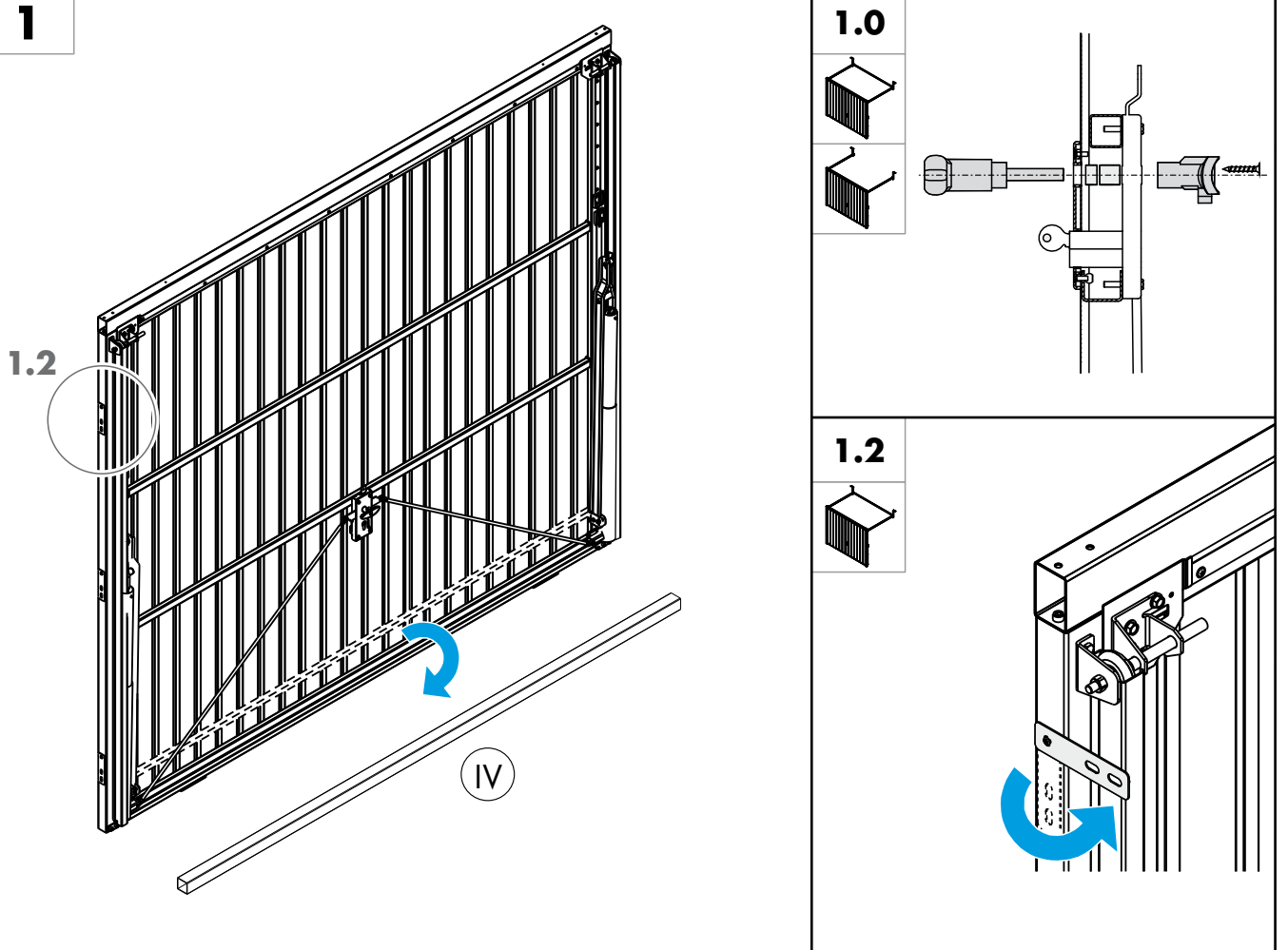
**X**



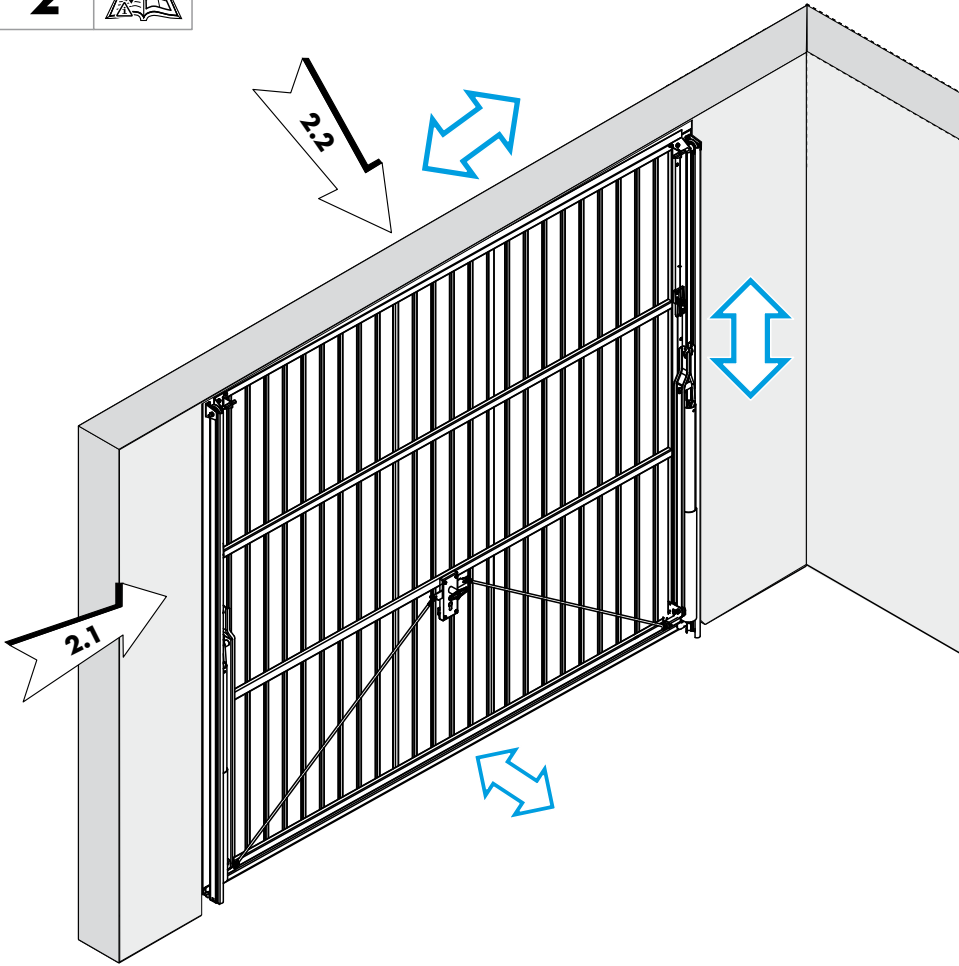
1



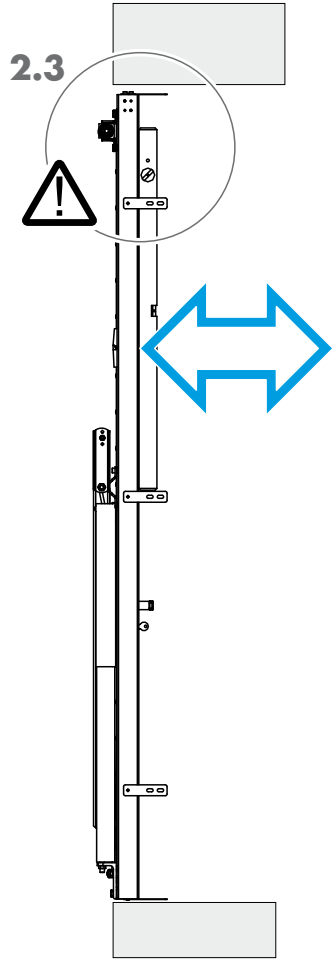
1



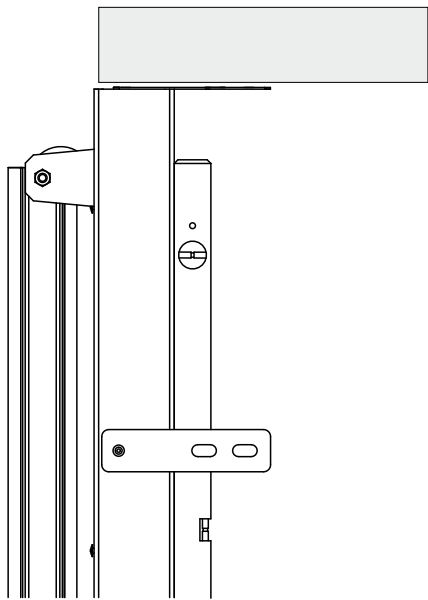
**2** 



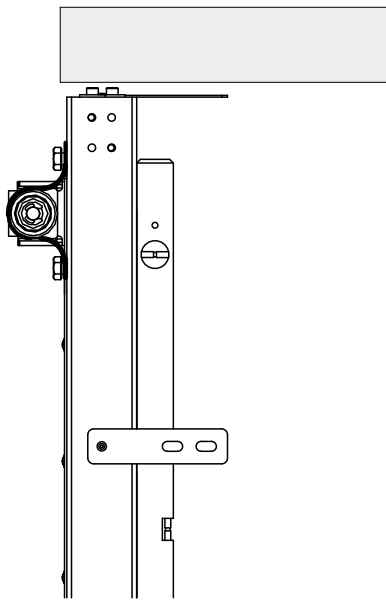
**2.1**



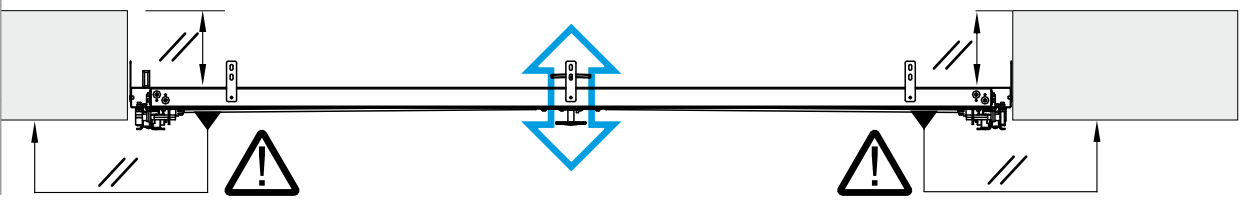
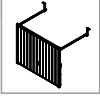
**2.3**

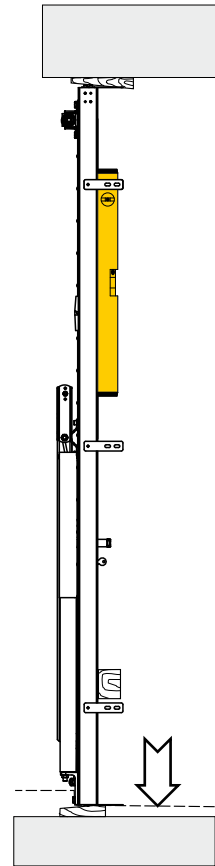
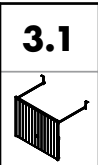
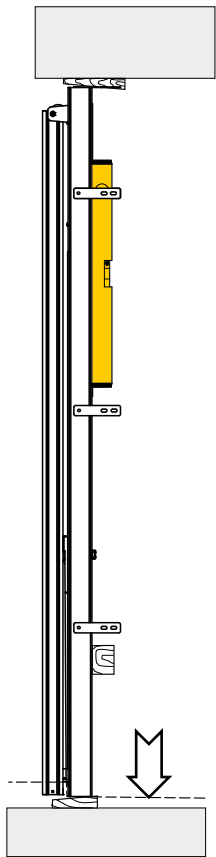
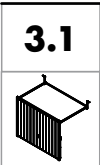
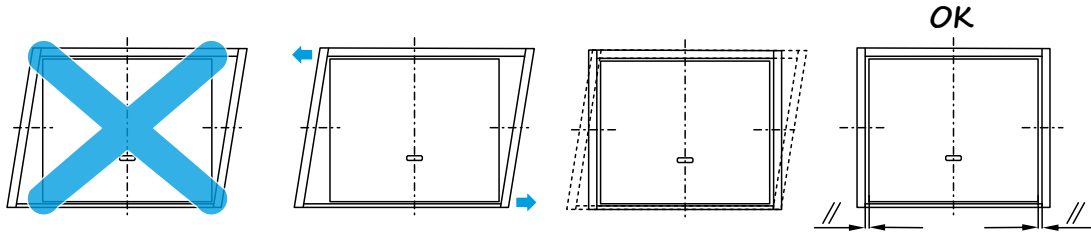
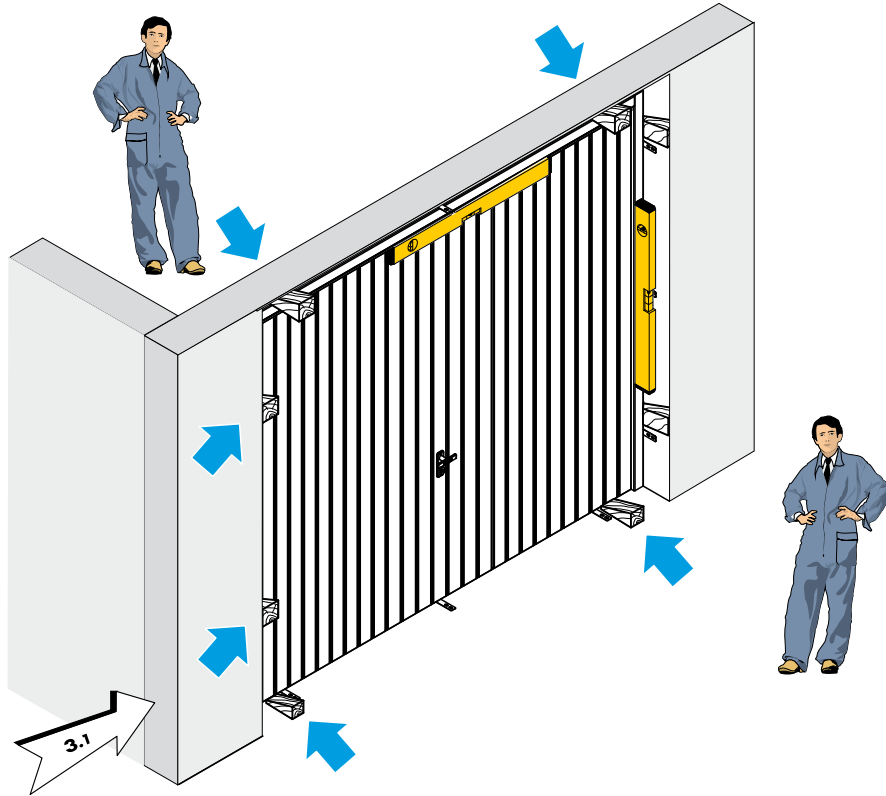


**2.3**

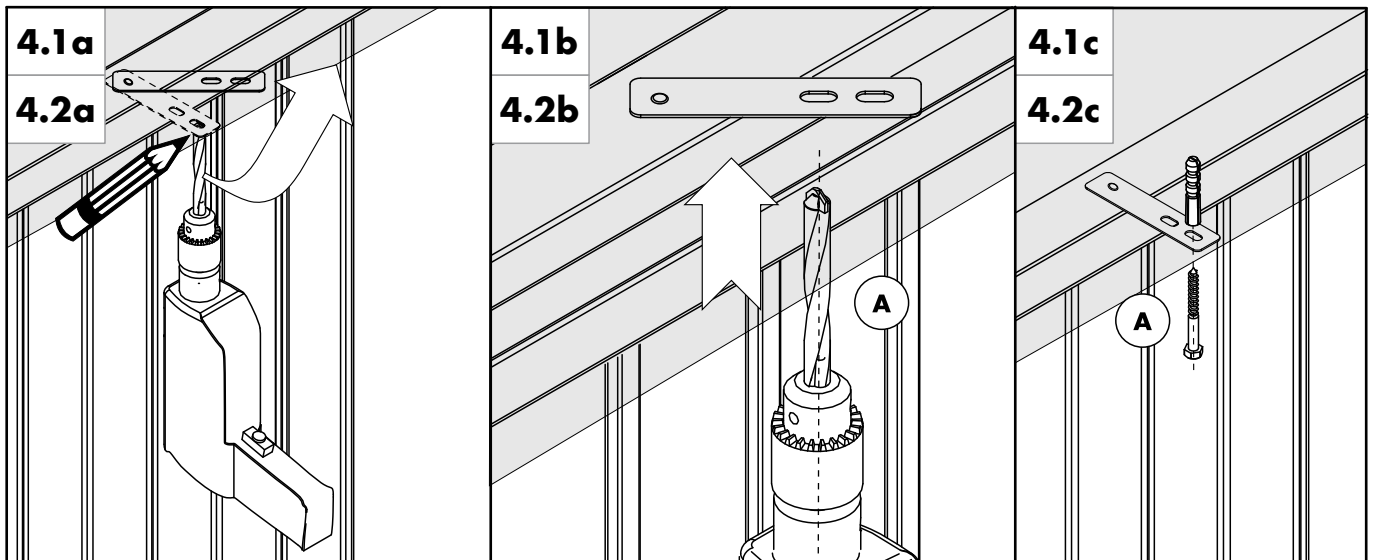
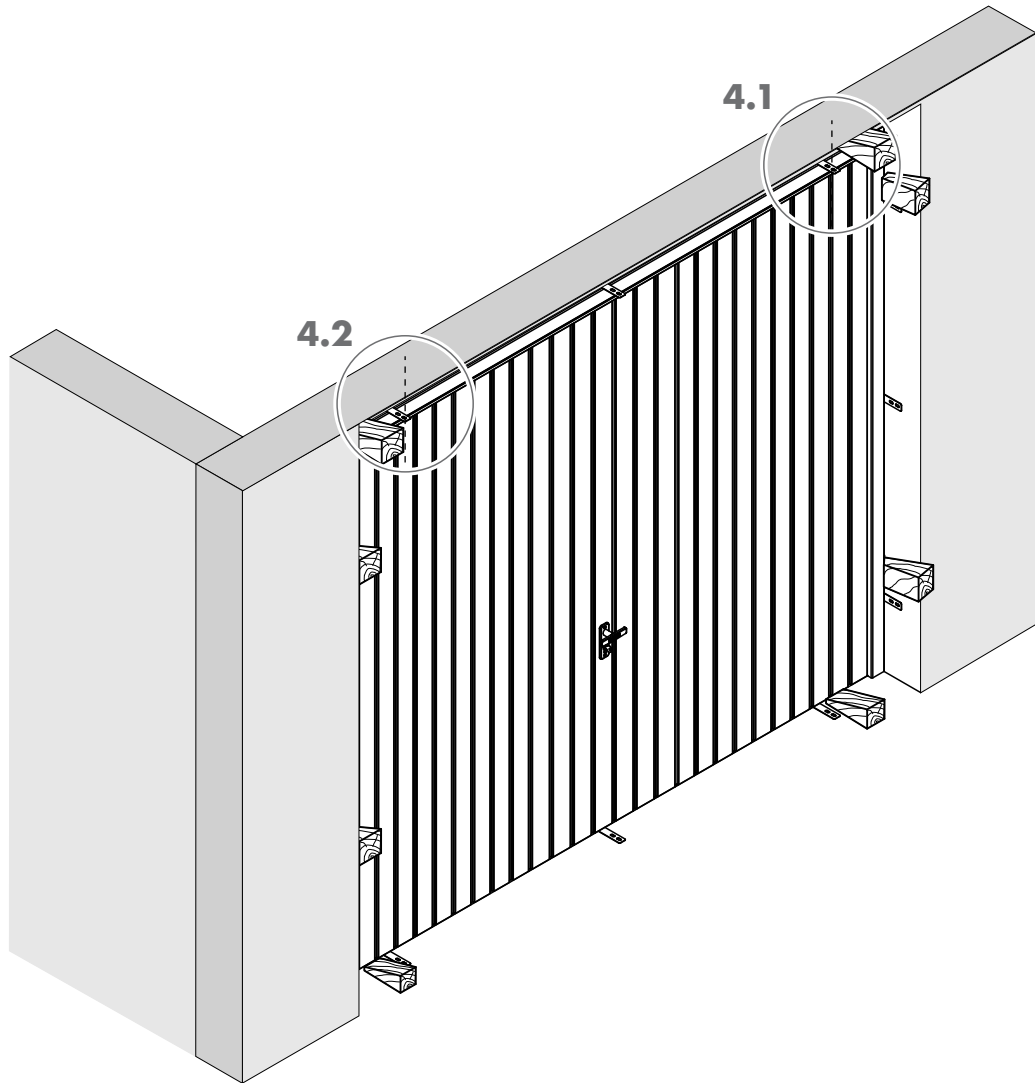


**2.2**



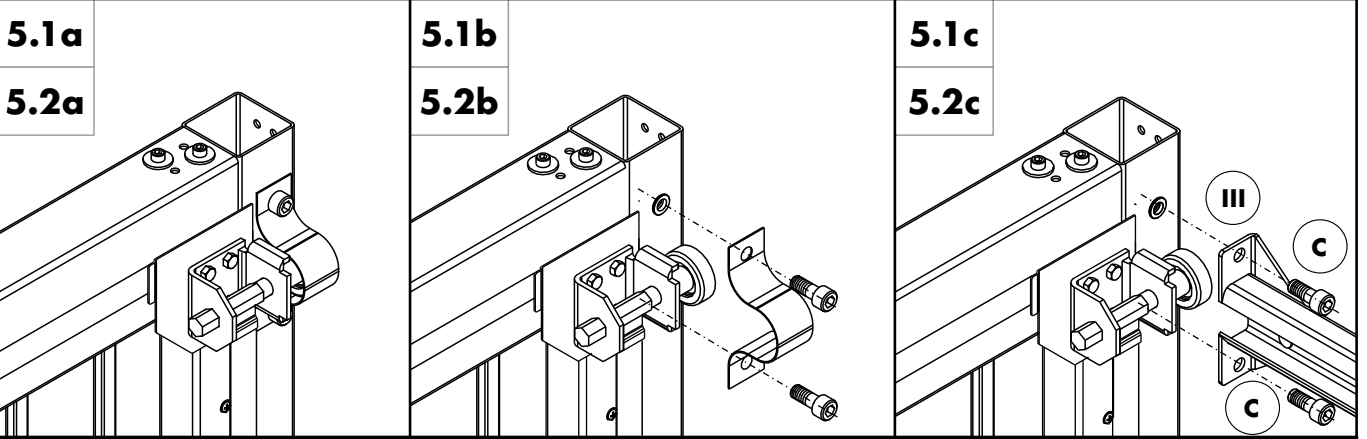
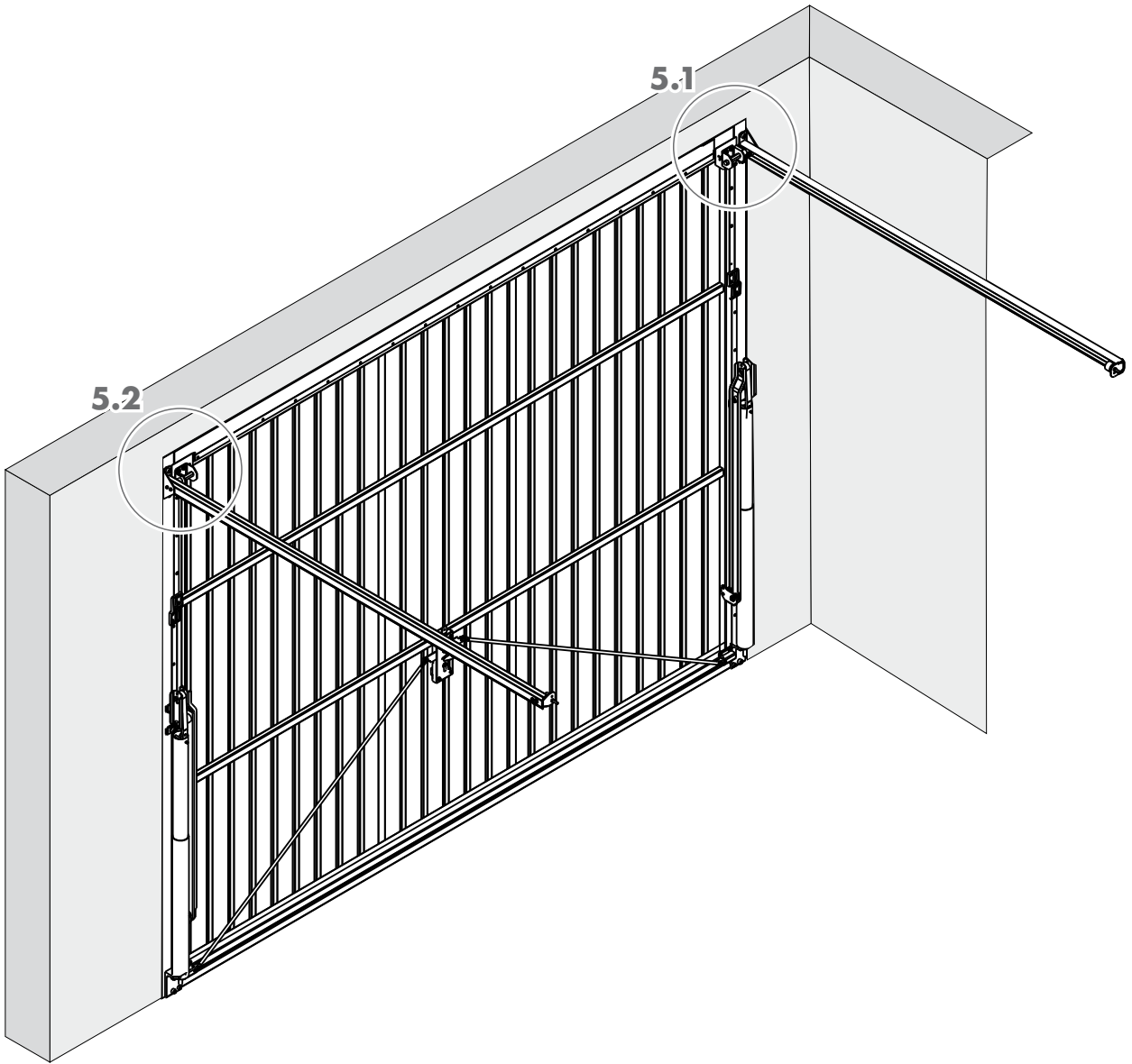


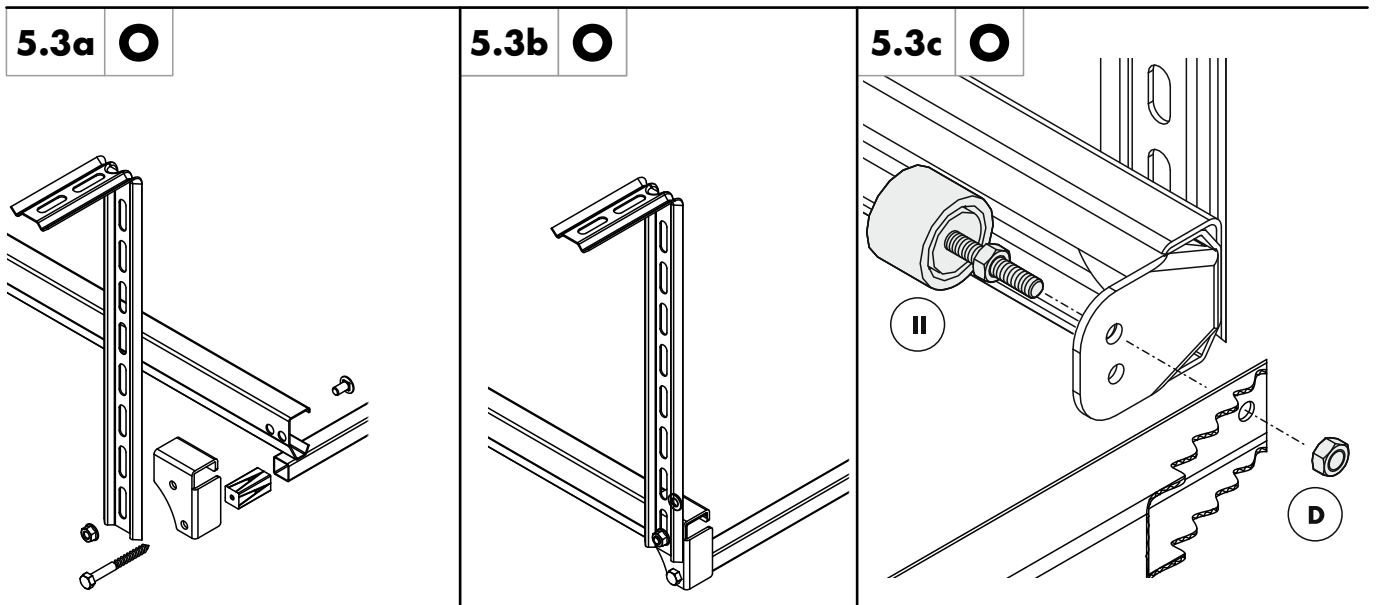
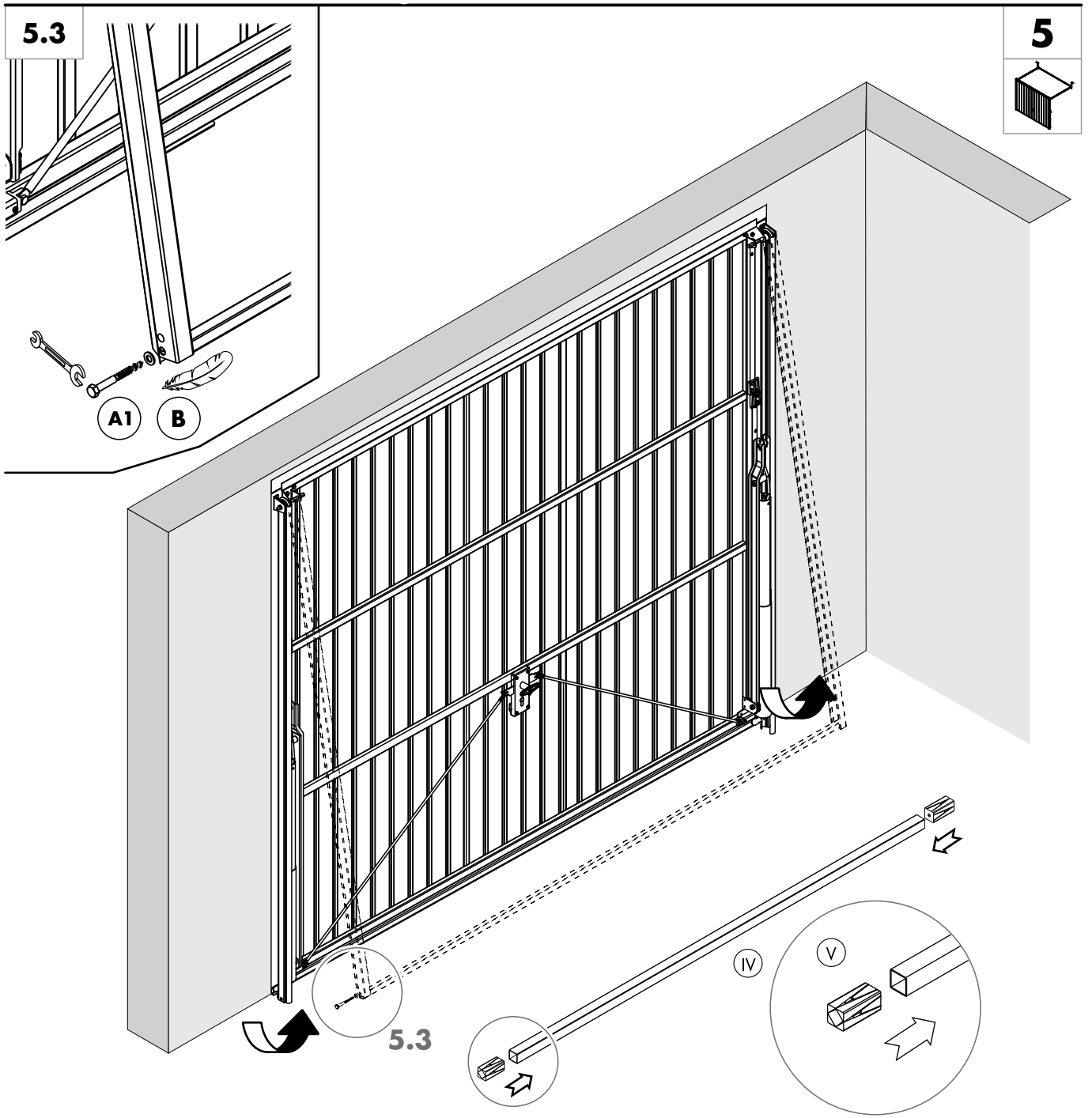
**4**



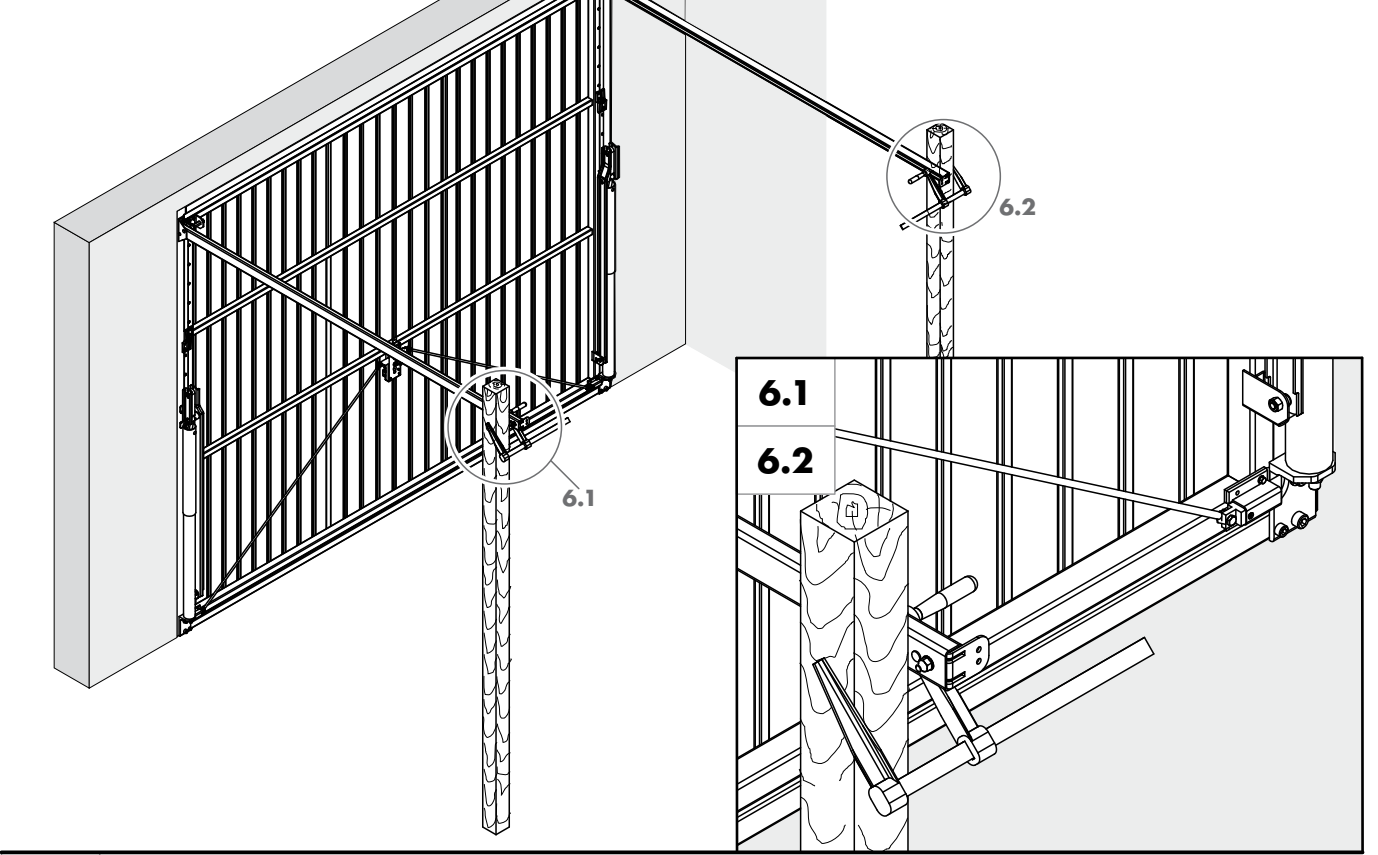


**5**

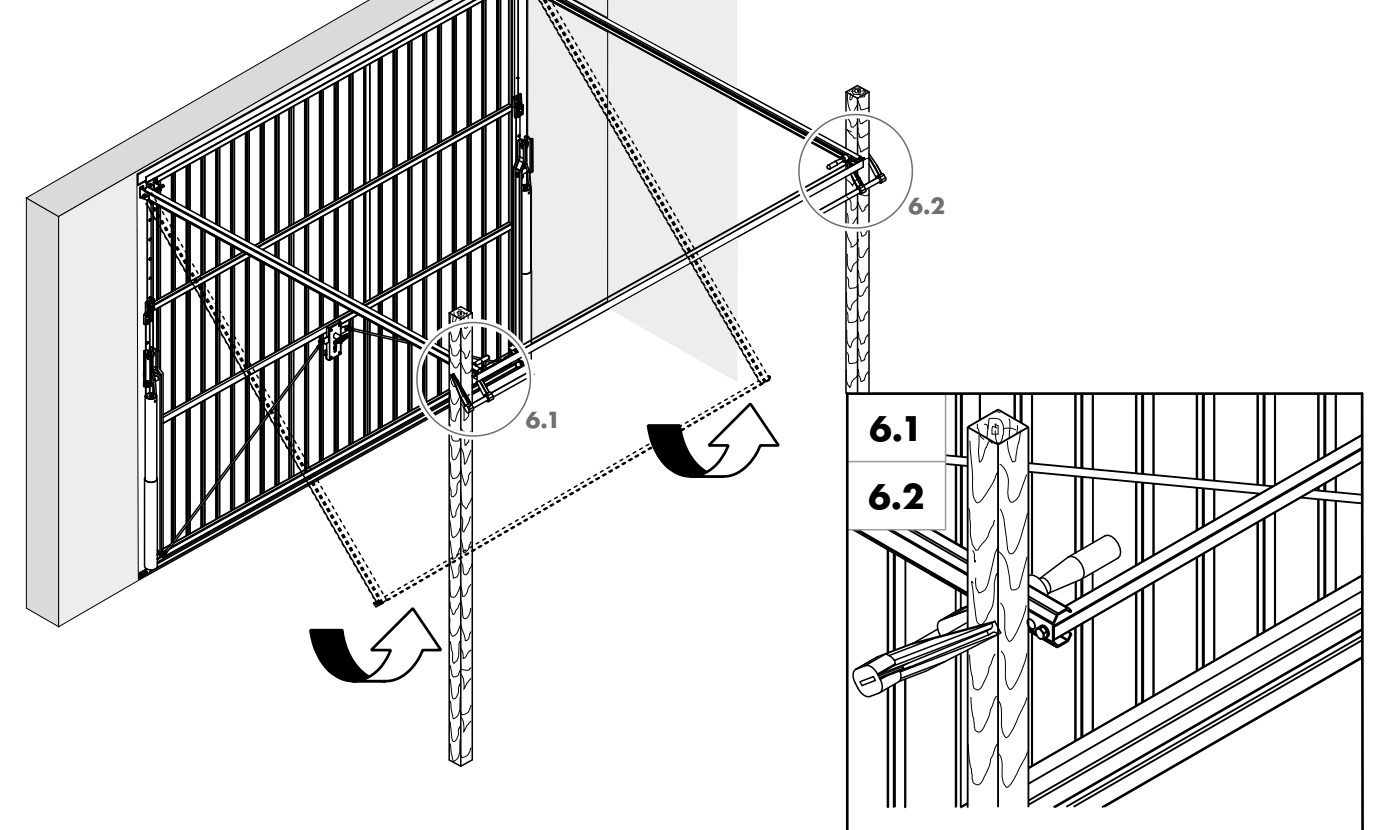




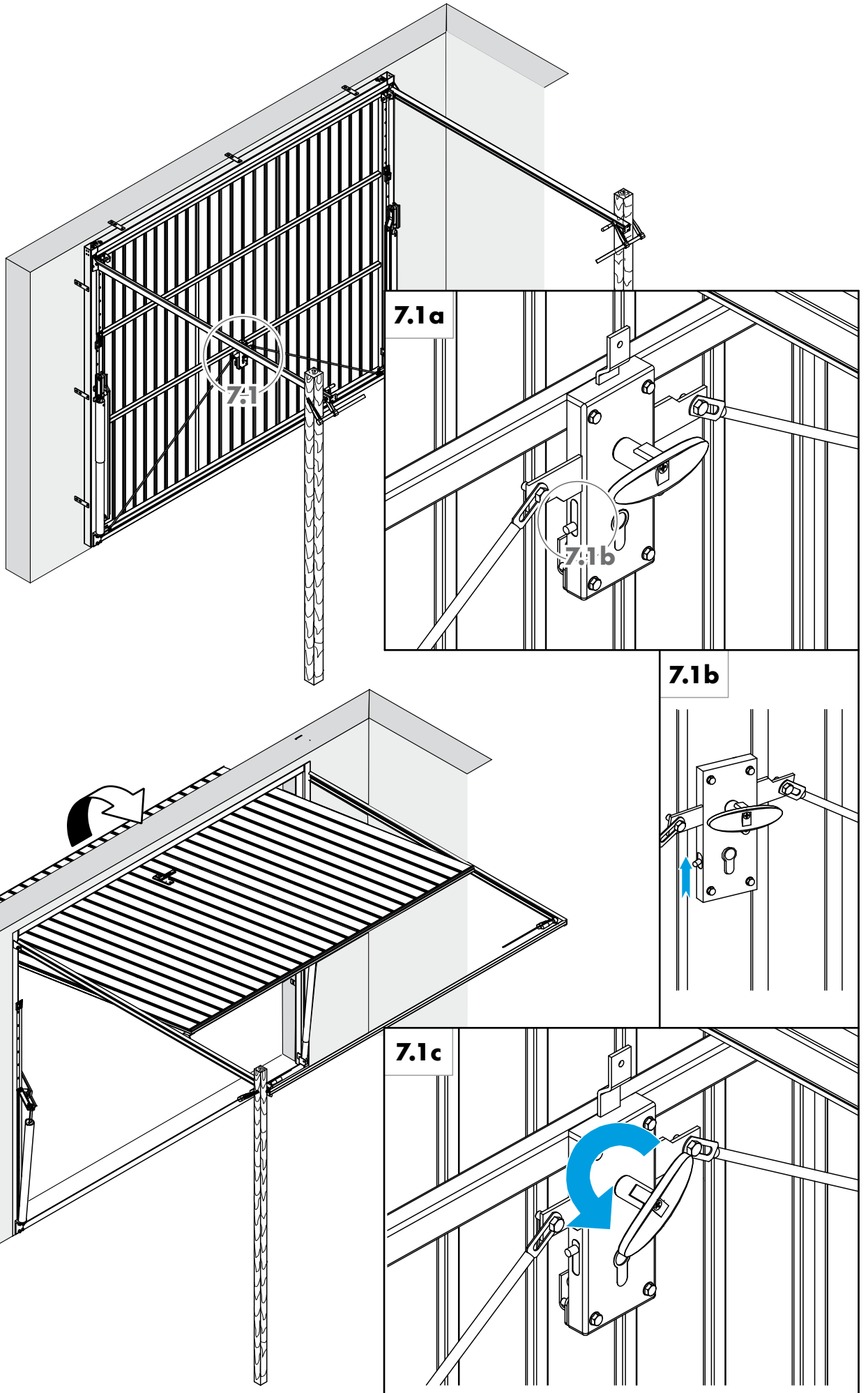
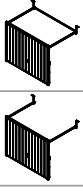
**6**



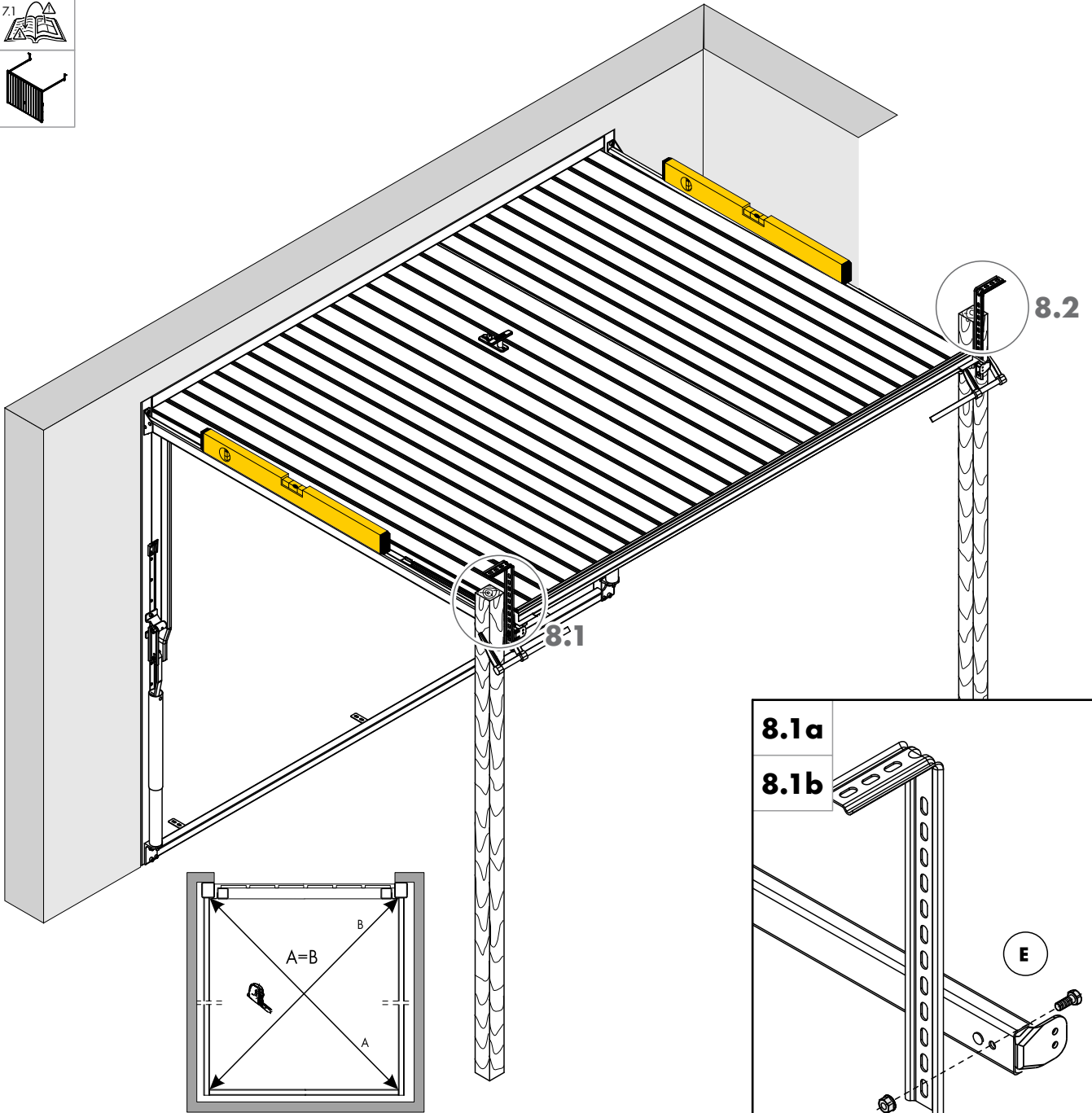
**6**



7

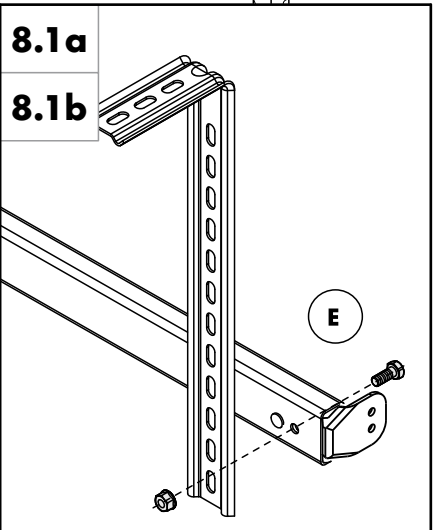


8



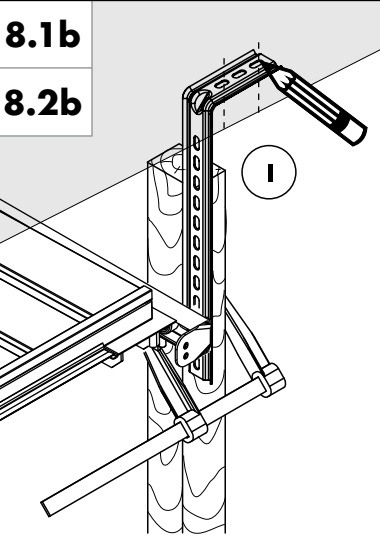
8.1a

8.1b



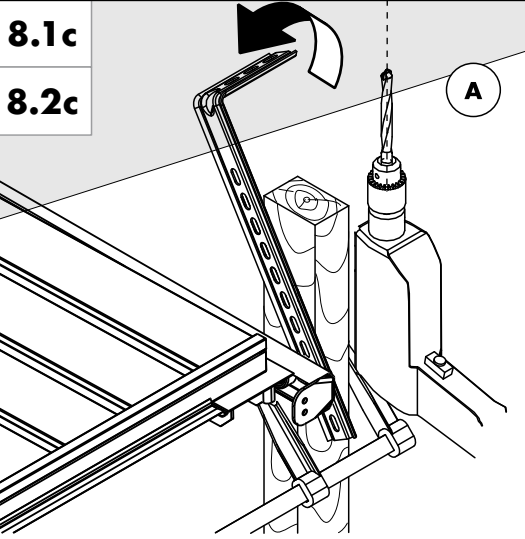
8.1b

8.2b



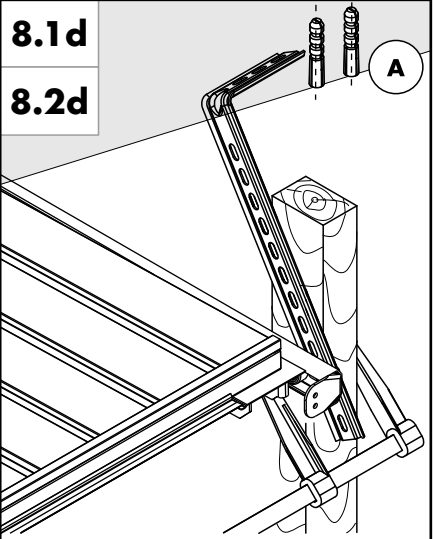
8.1c

8.2c

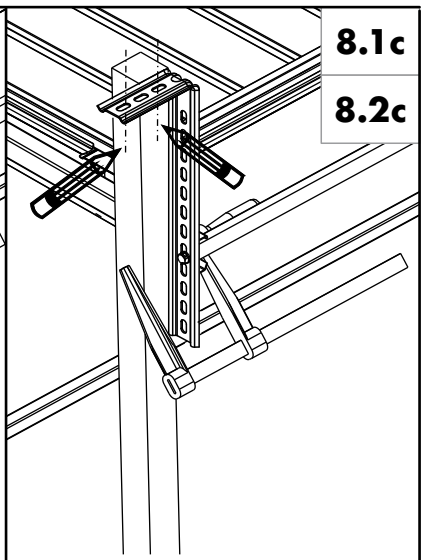
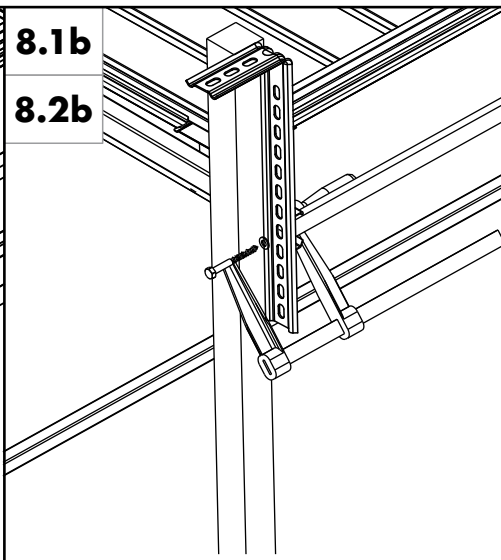
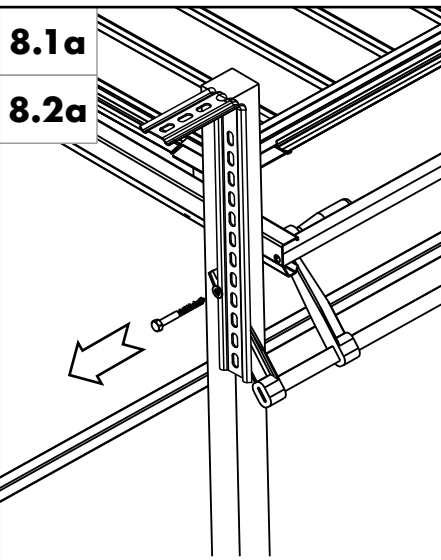
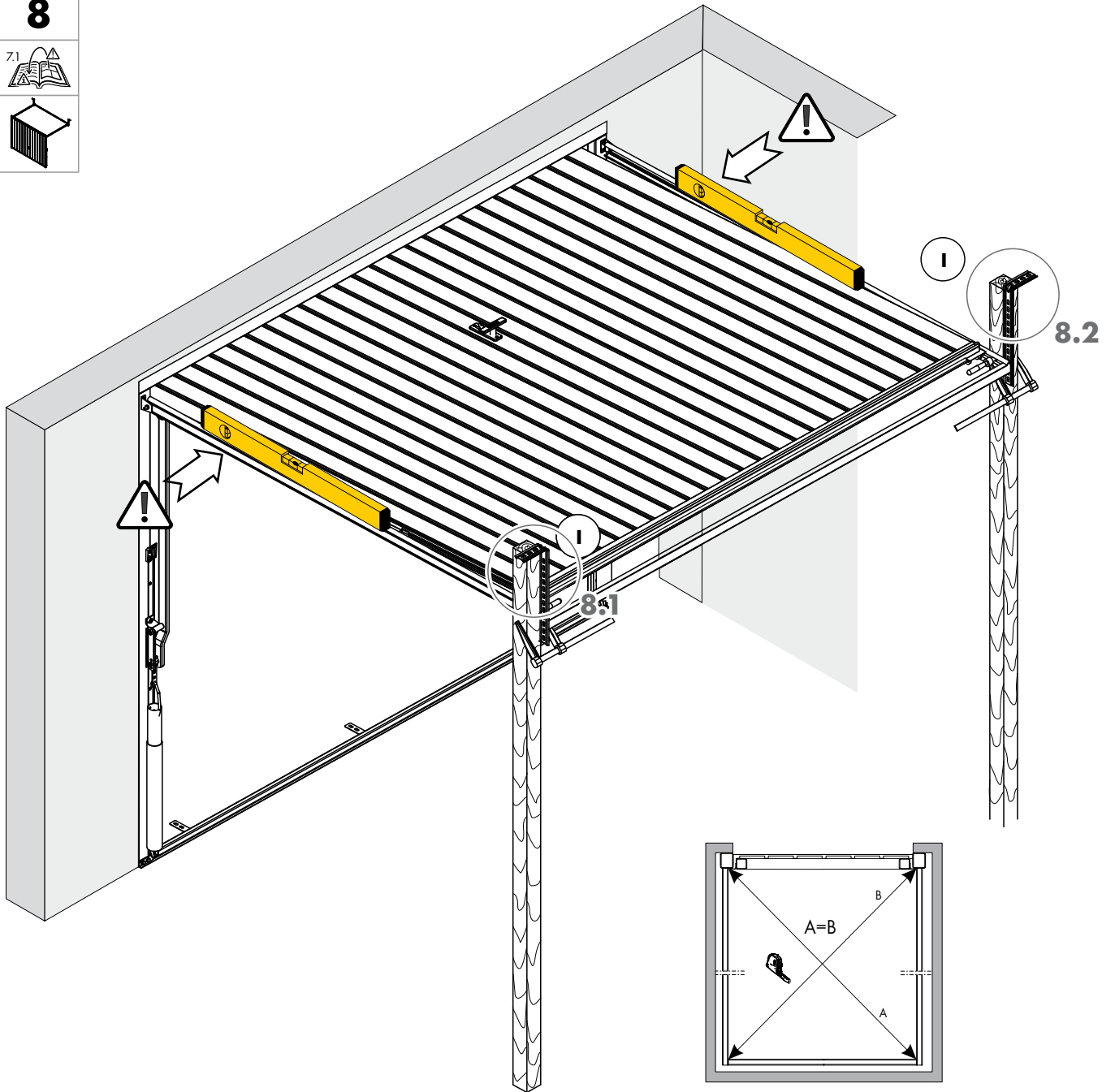


8.1d

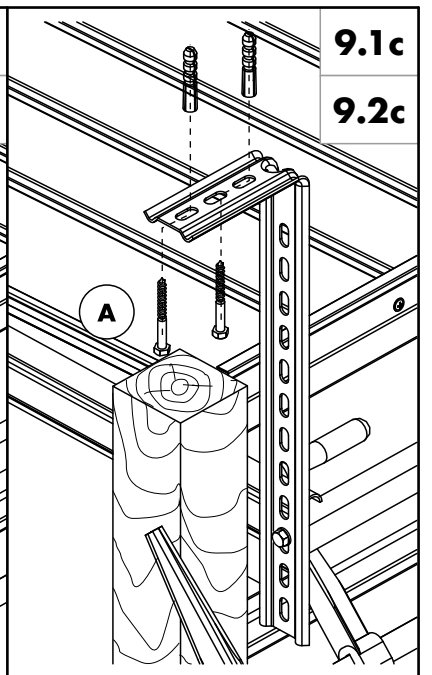
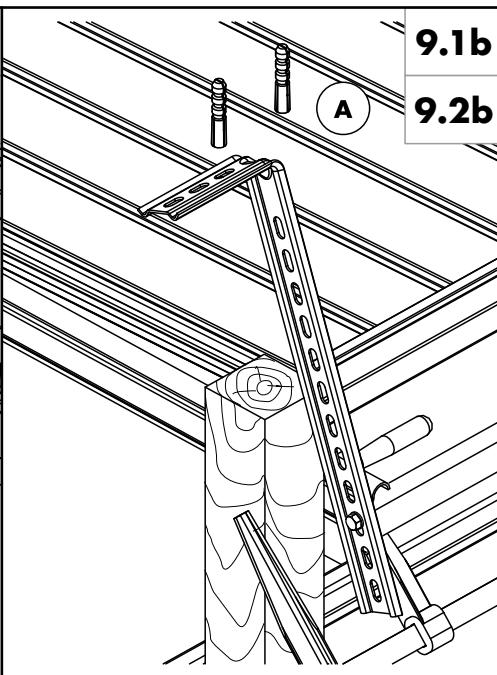
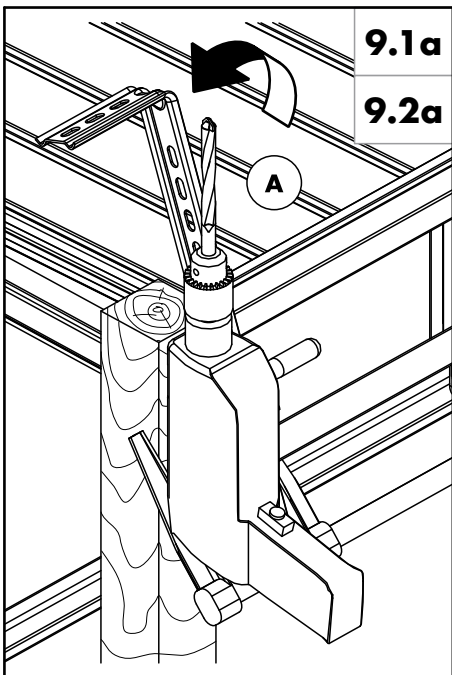
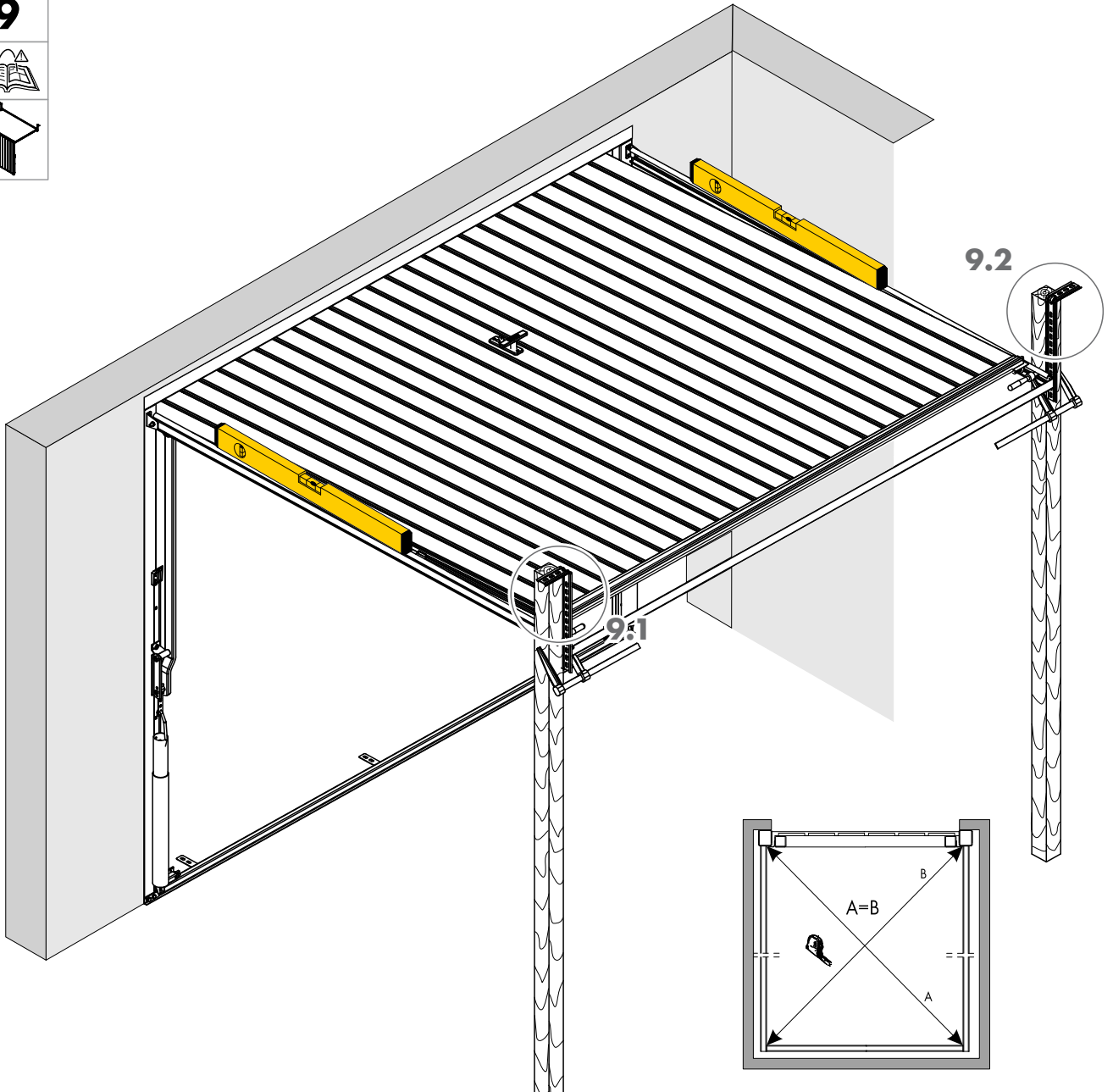
8.2d



8

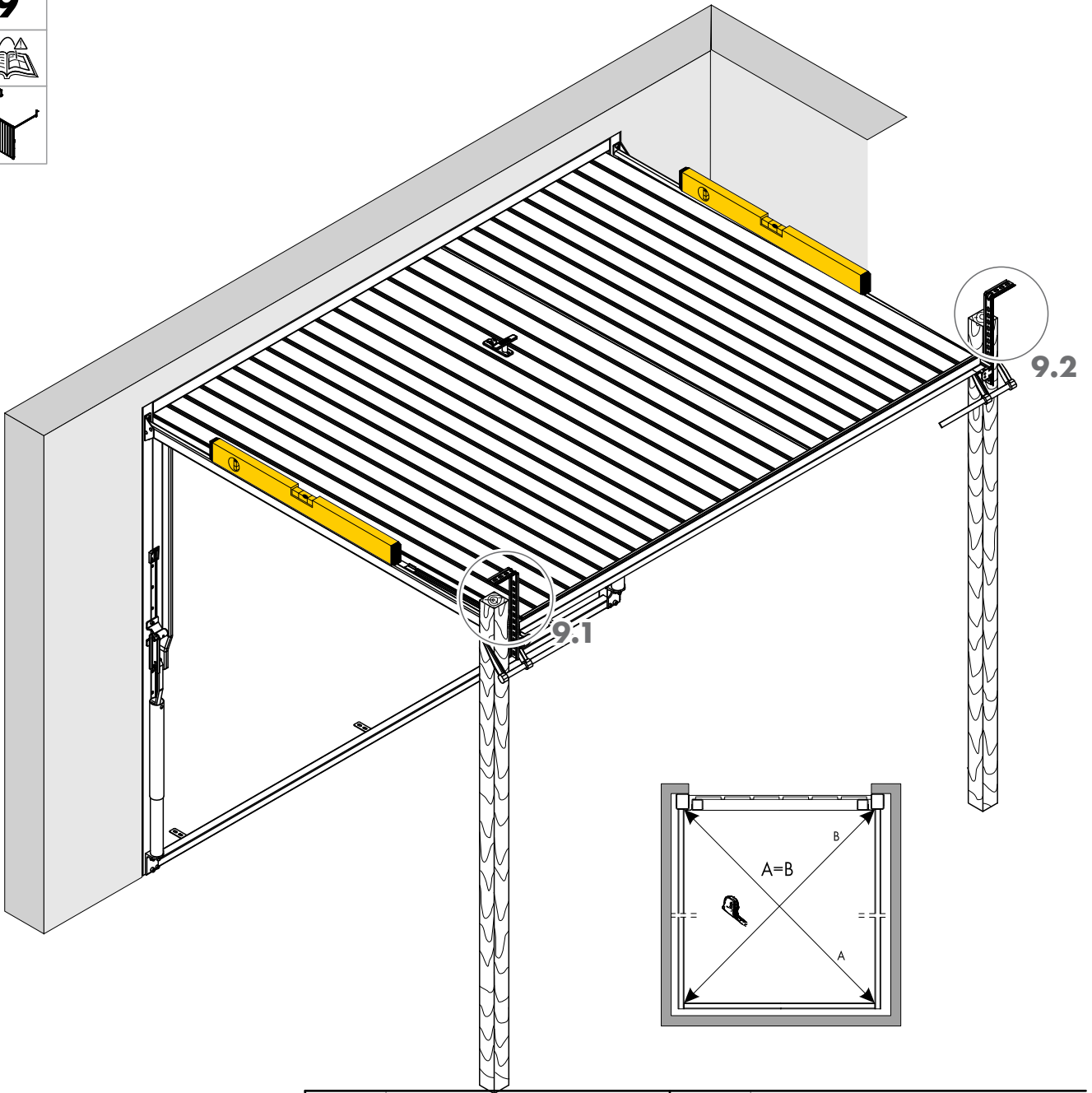


9



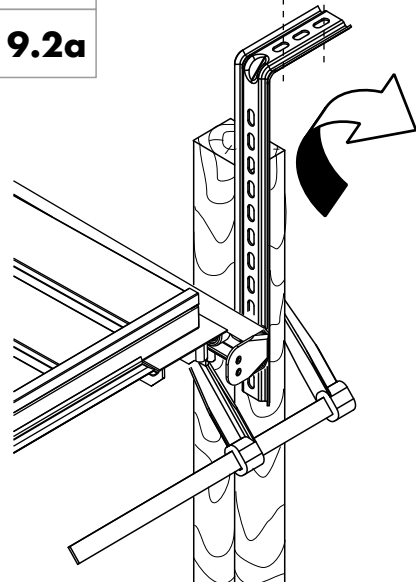
9

7.1



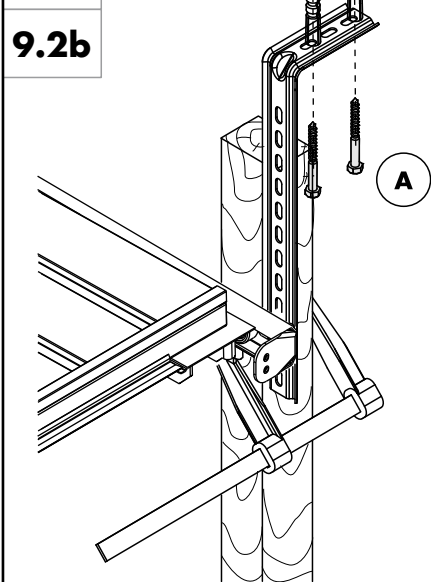
9.1a

9.2a

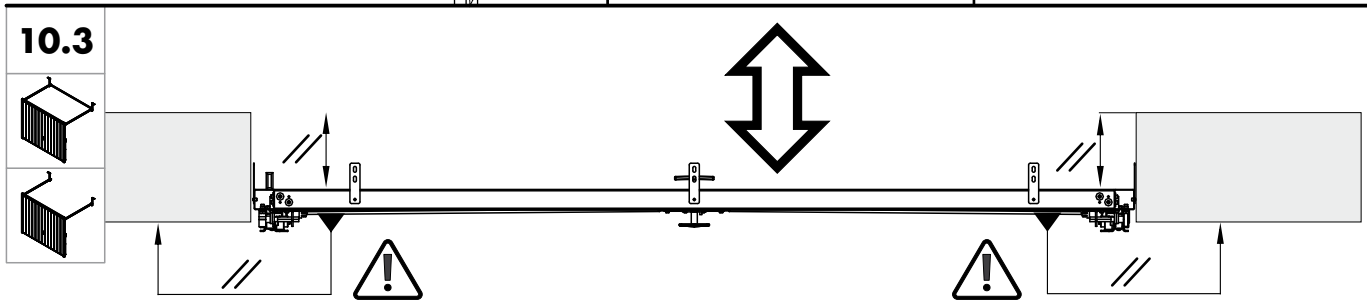
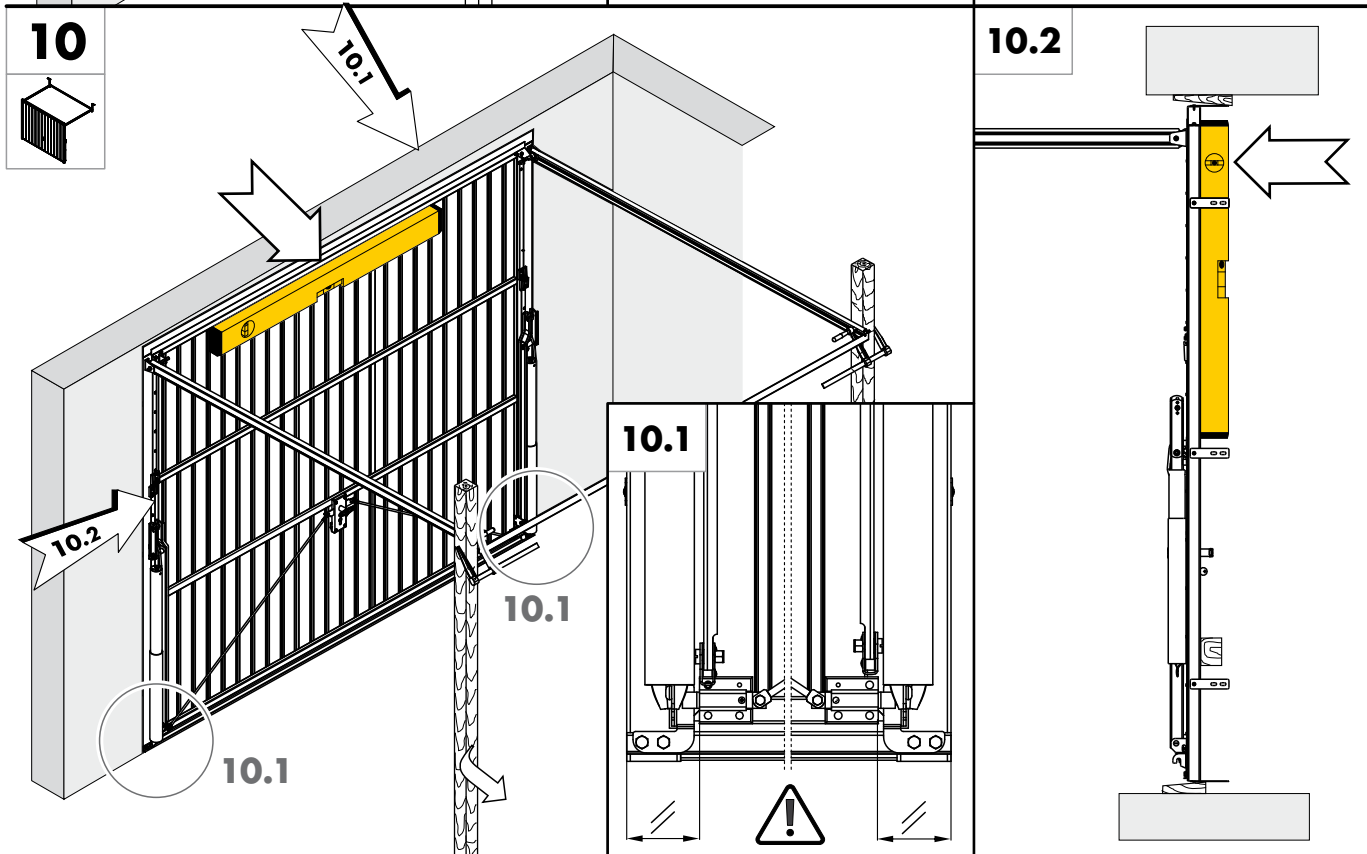
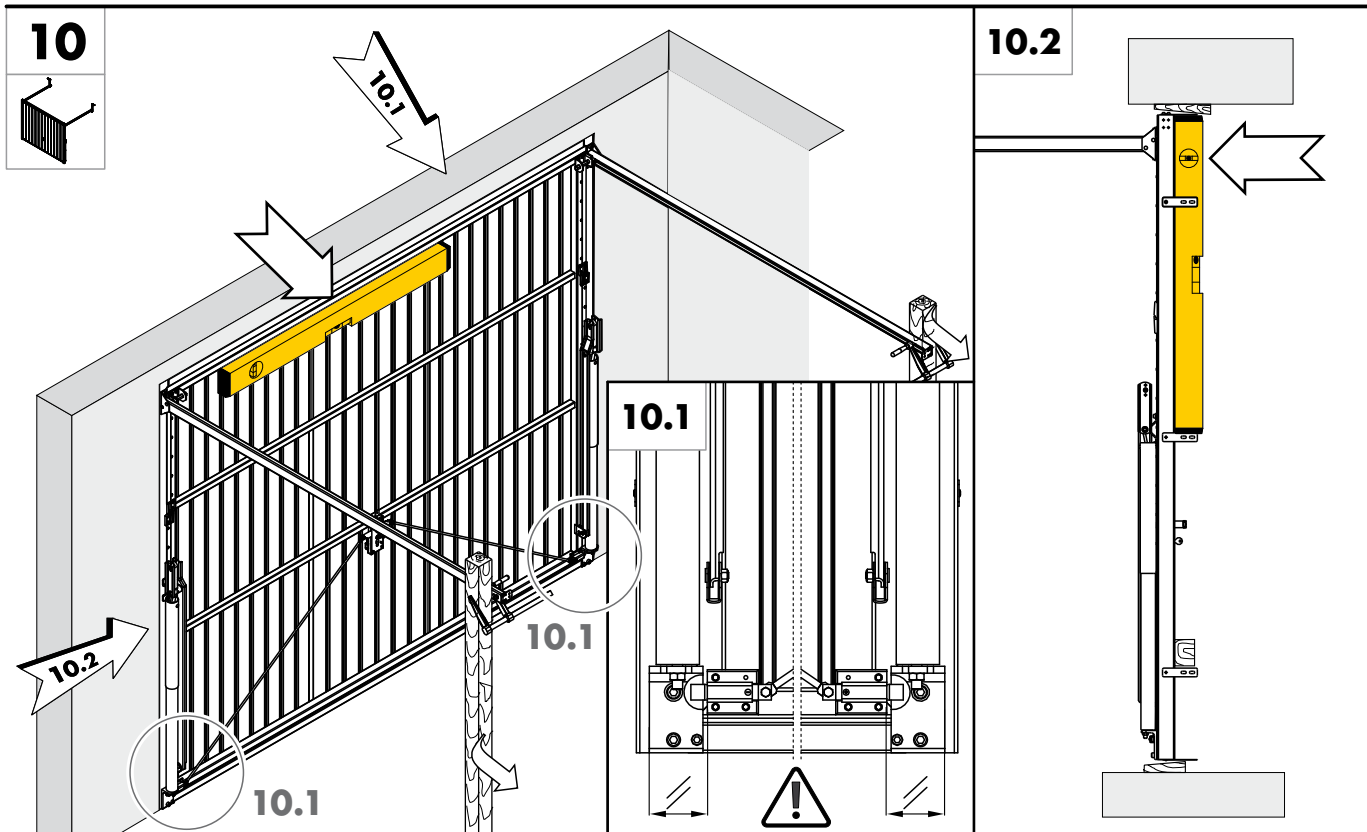


9.1b

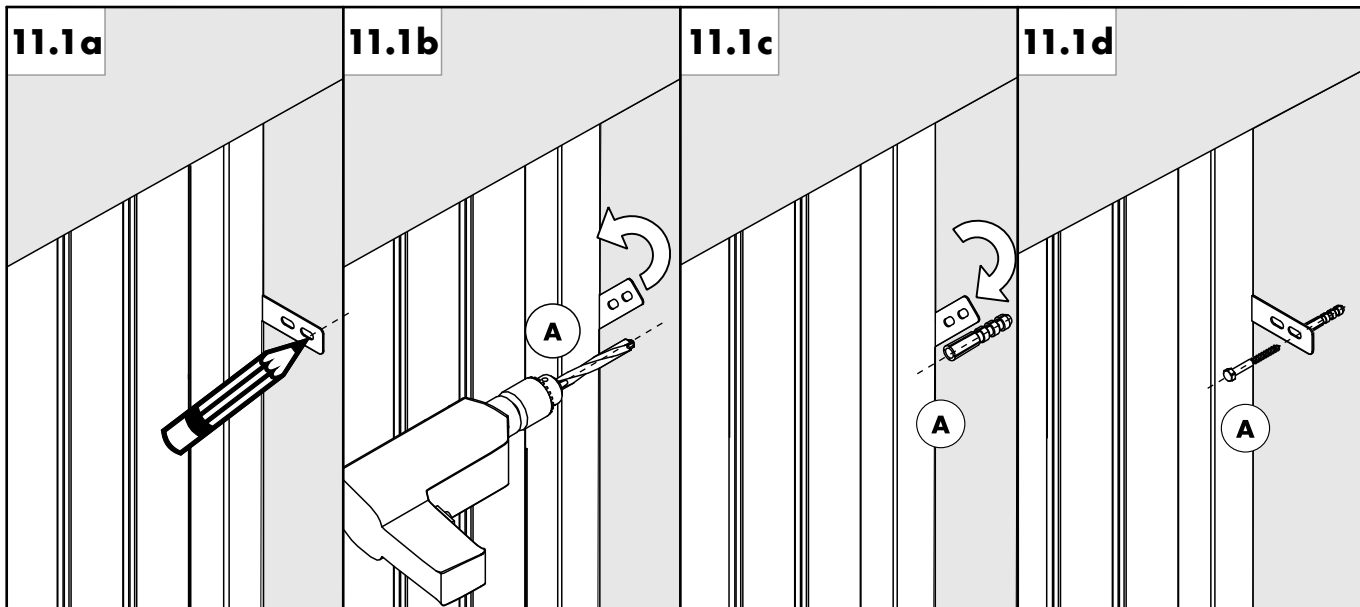
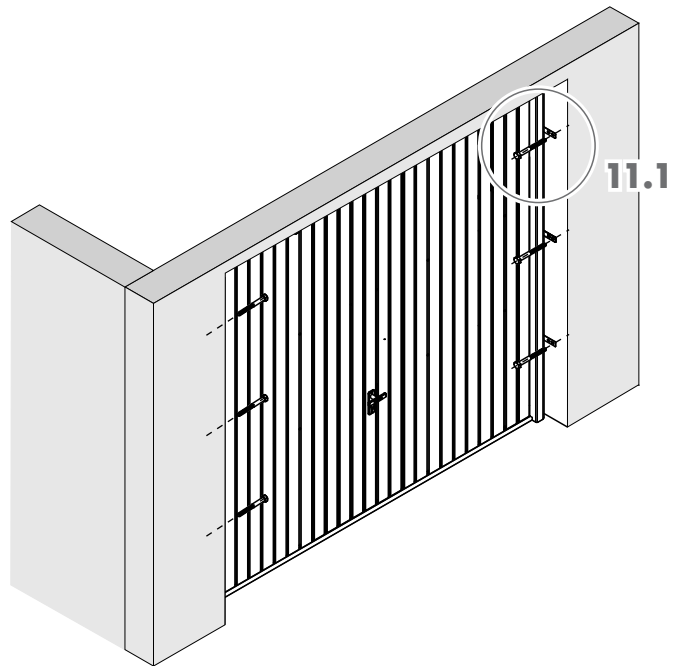
9.2b



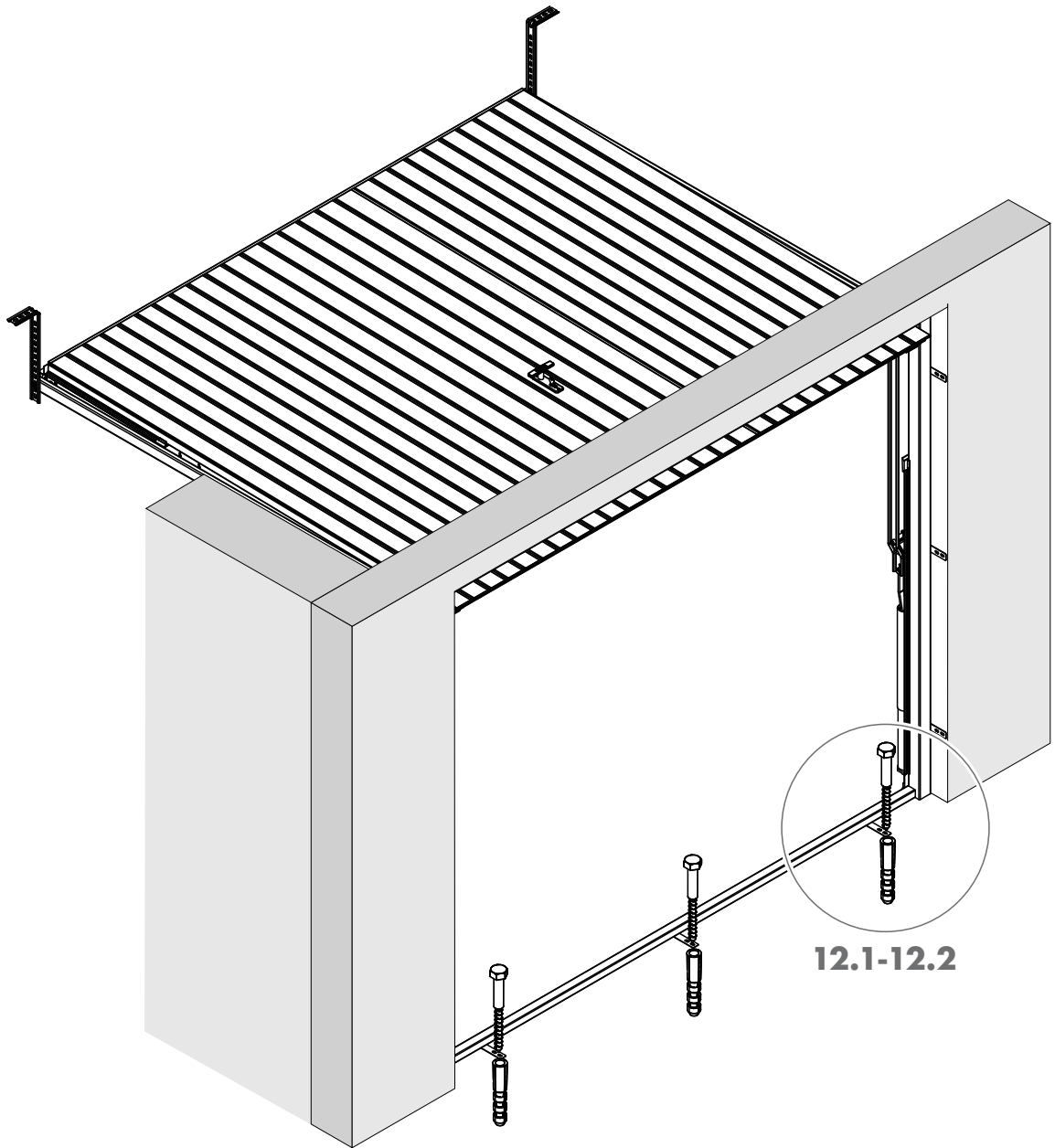




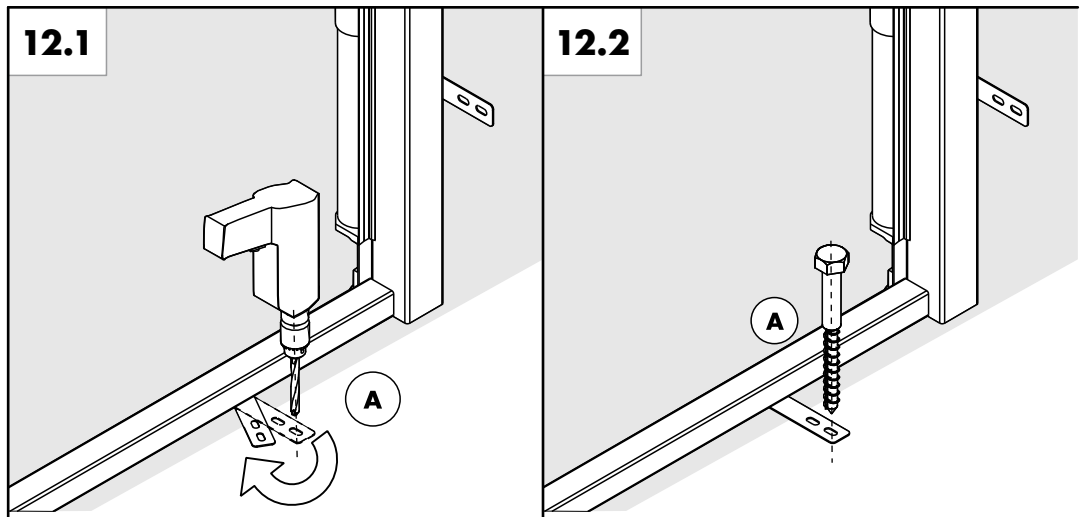
# 11



12



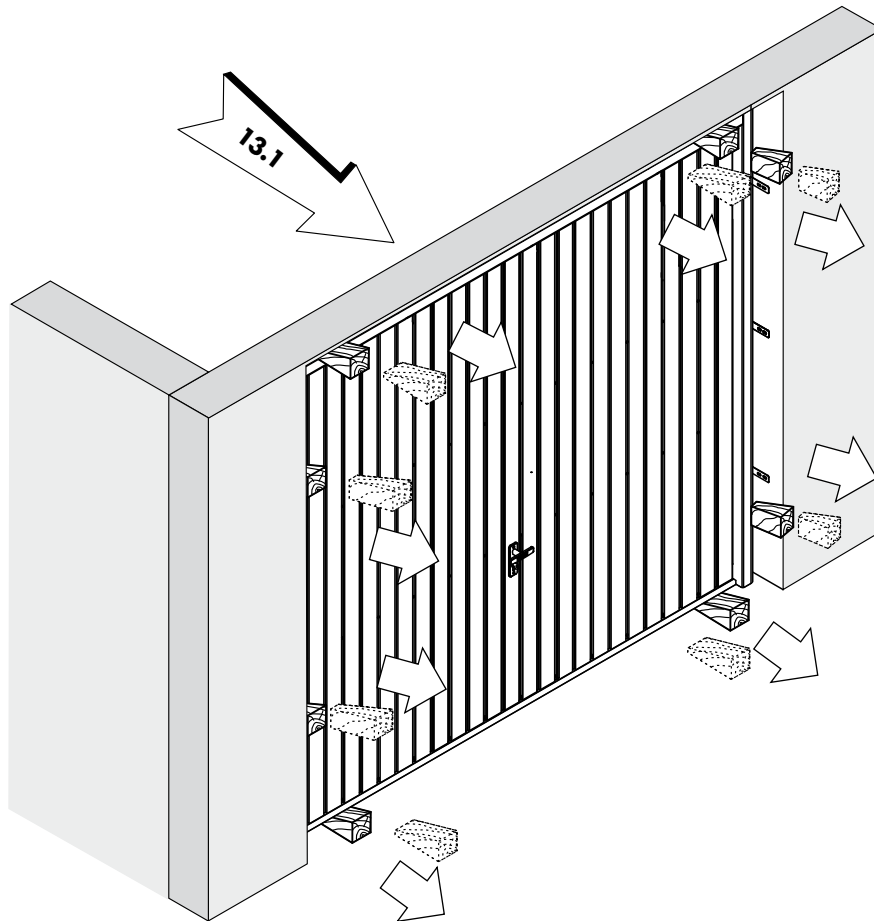
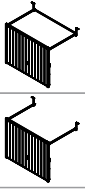
12.1-12.2



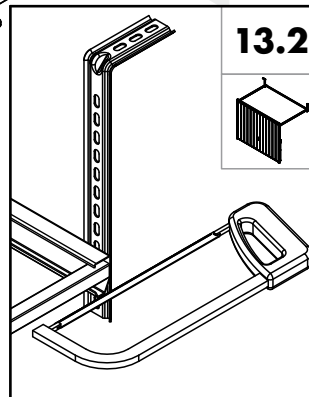
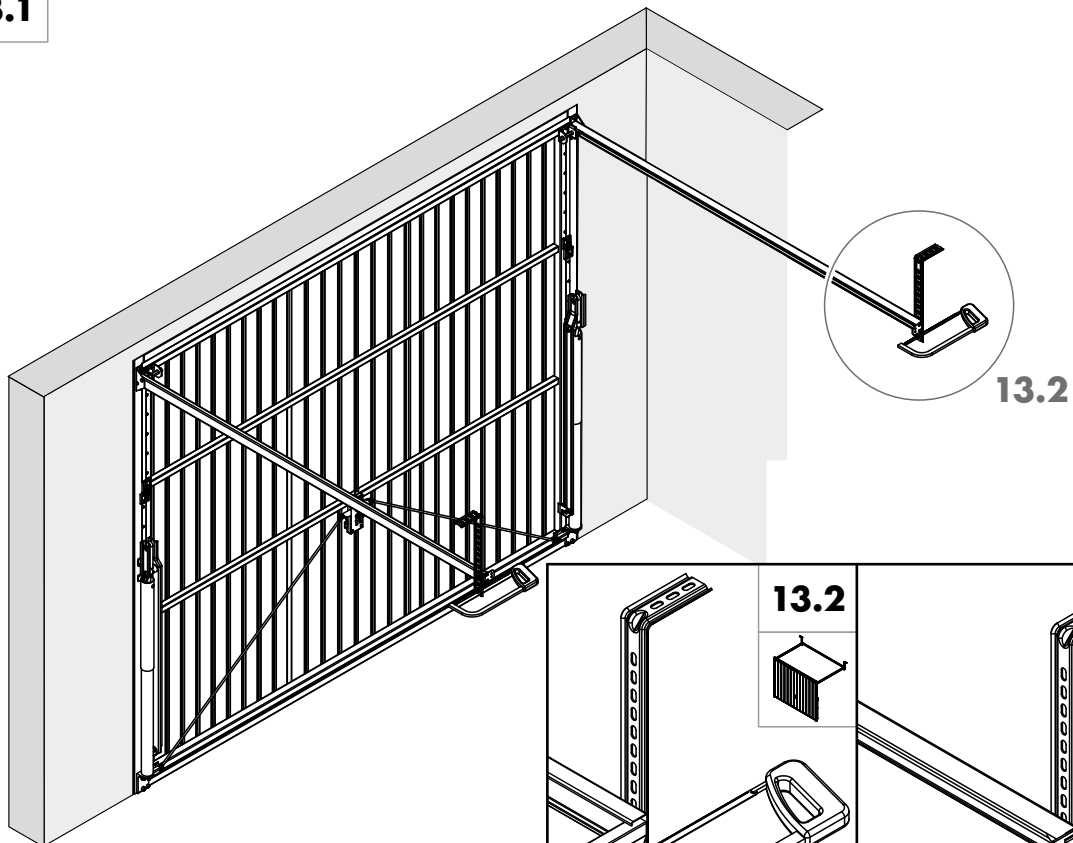
12.1

12.2

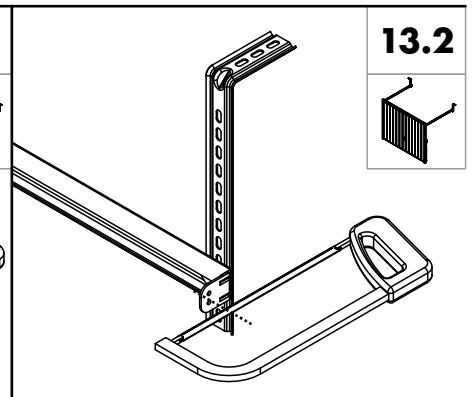
**13**



**13.1**

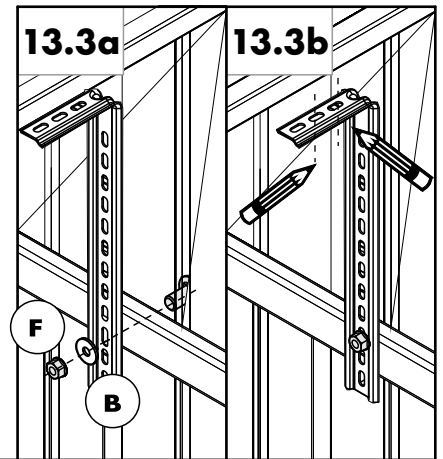
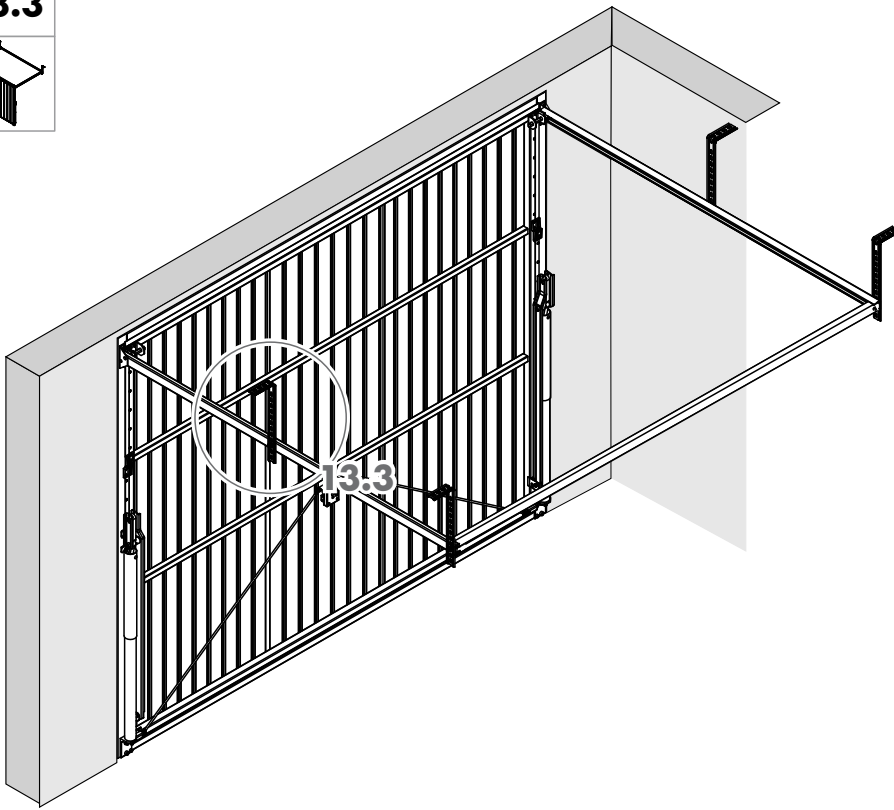


**13.2**

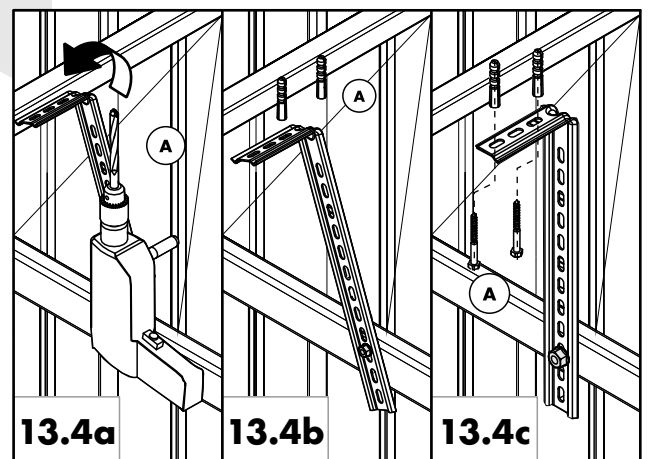
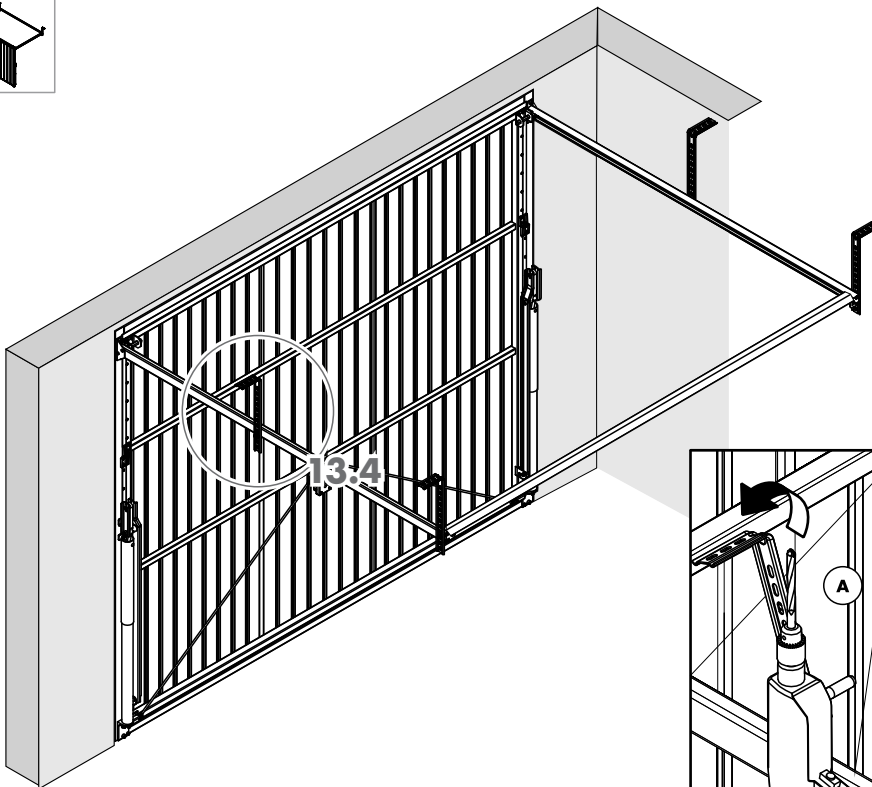


**13.2**

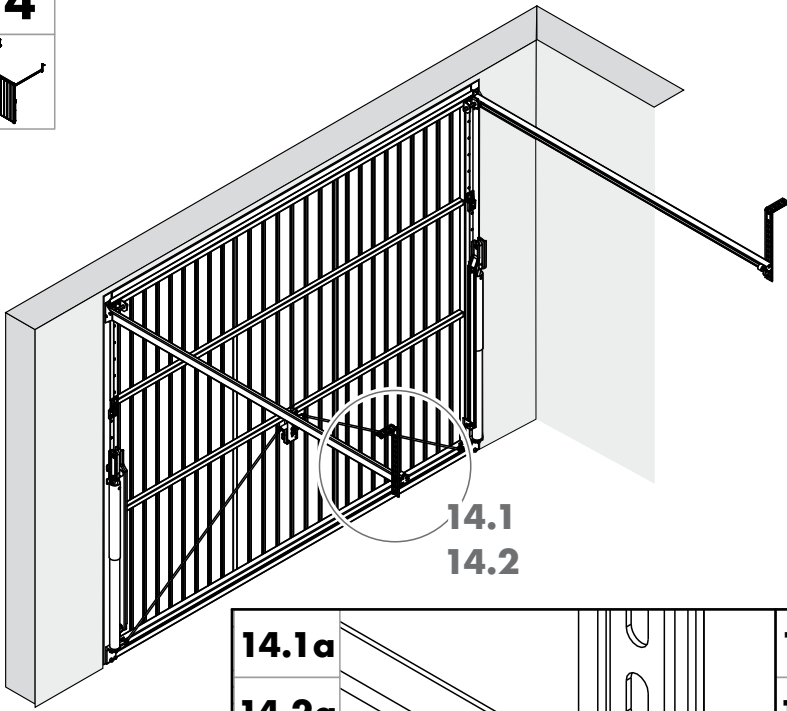
### 13.3



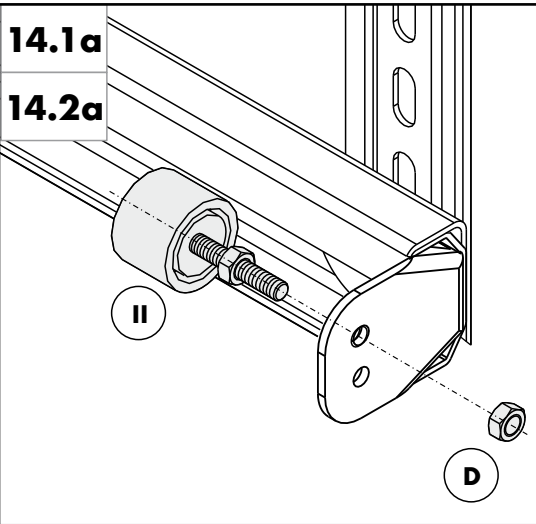
### 13.4



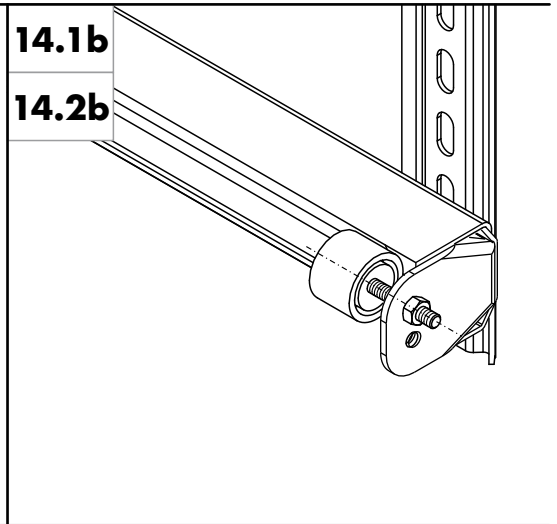
14



14.1  
14.2

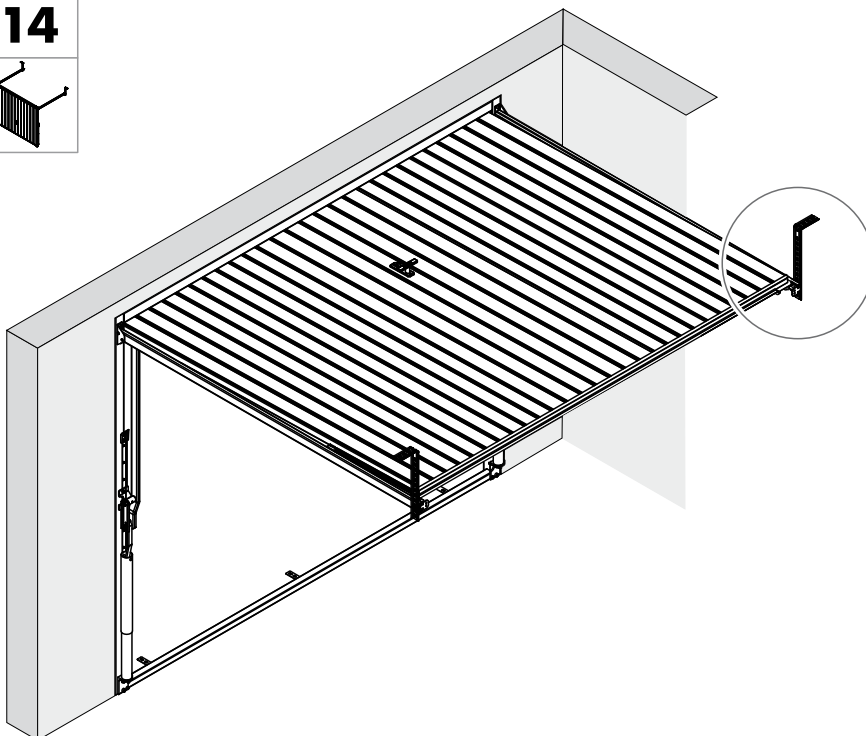


14.1a  
14.2a

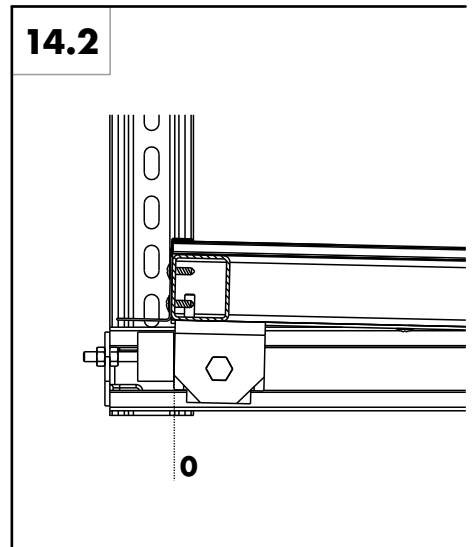


14.1b  
14.2b

14



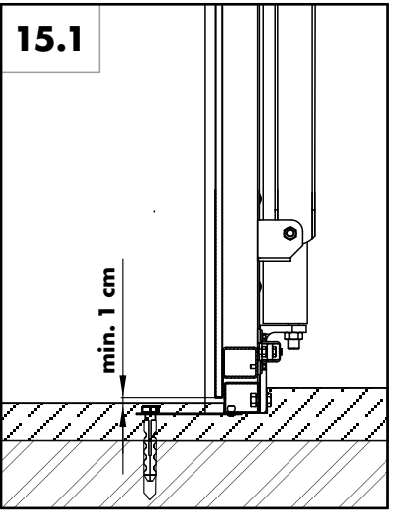
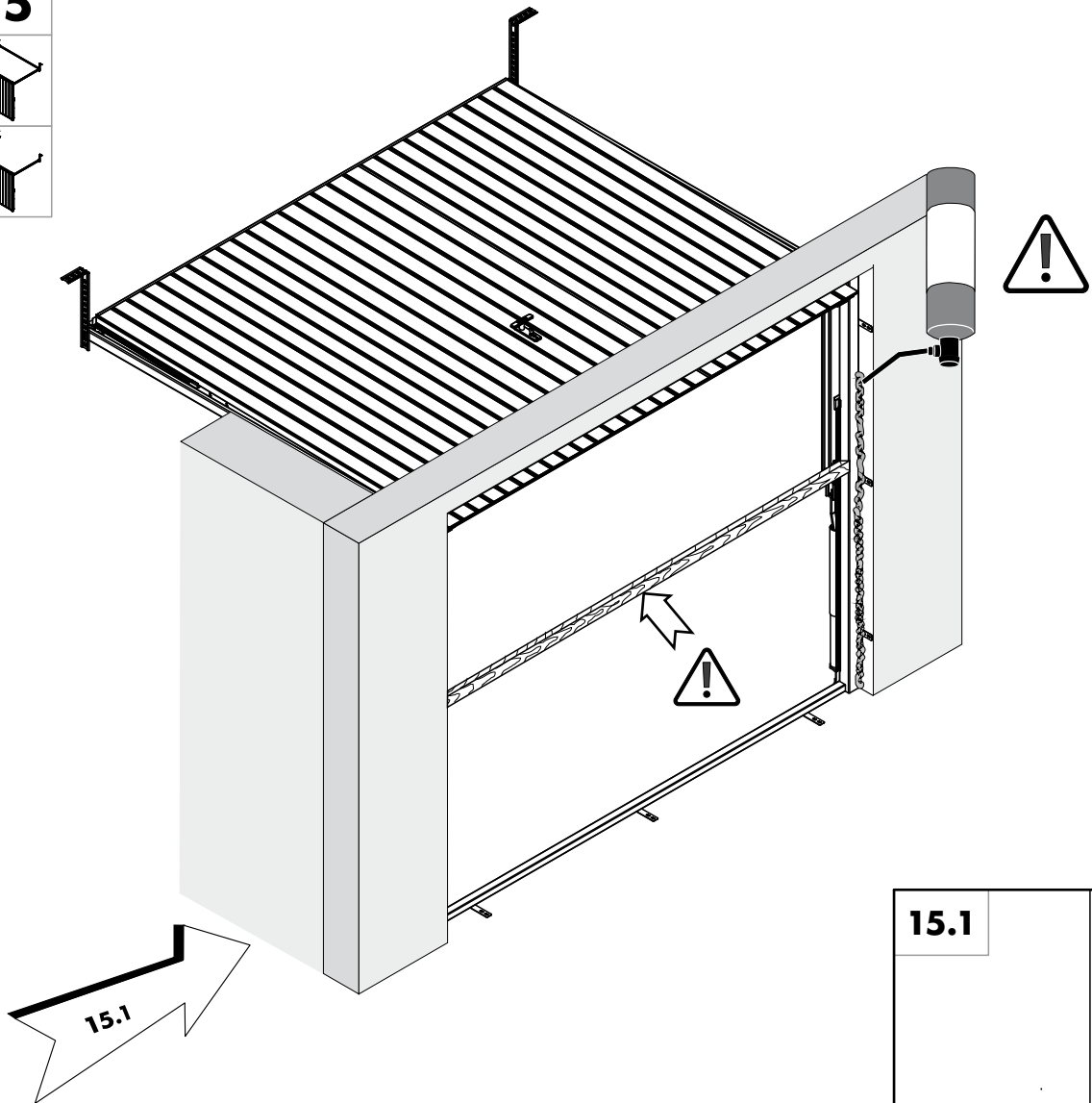
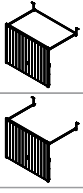
14.2



14.2

O

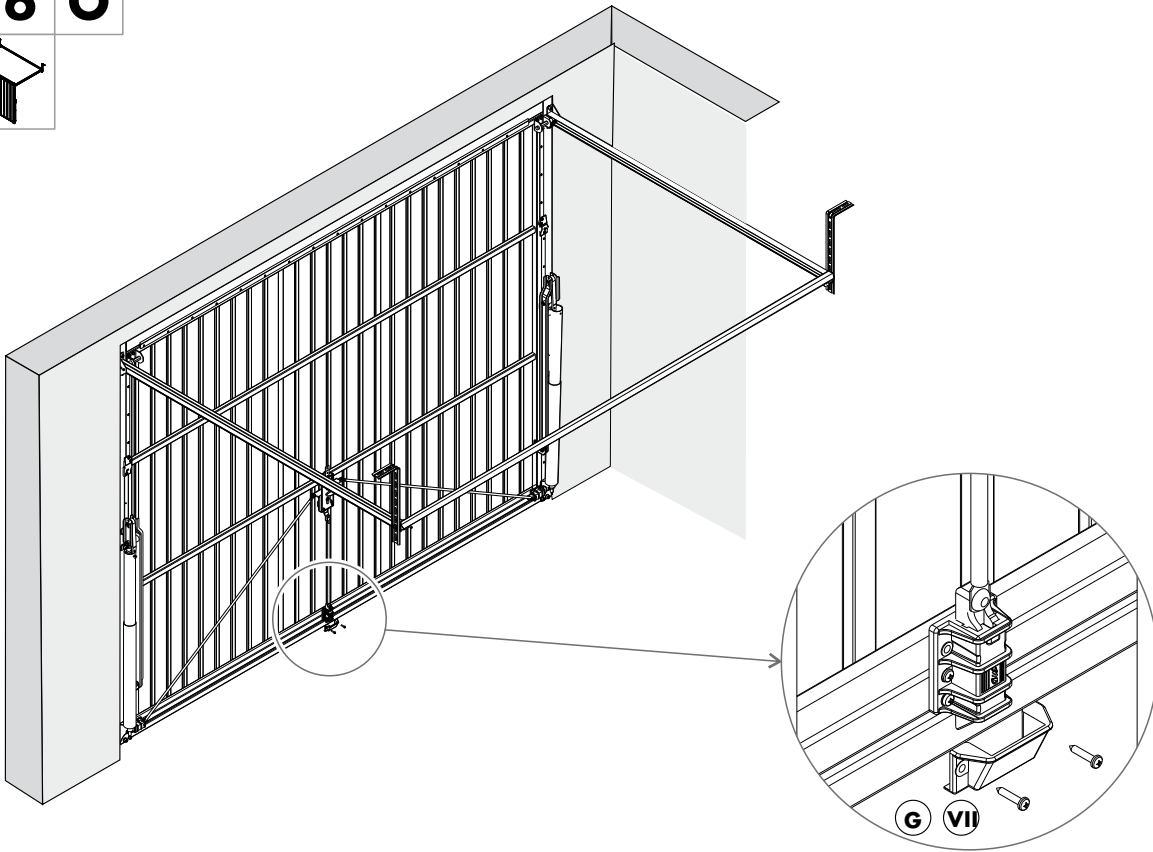
15



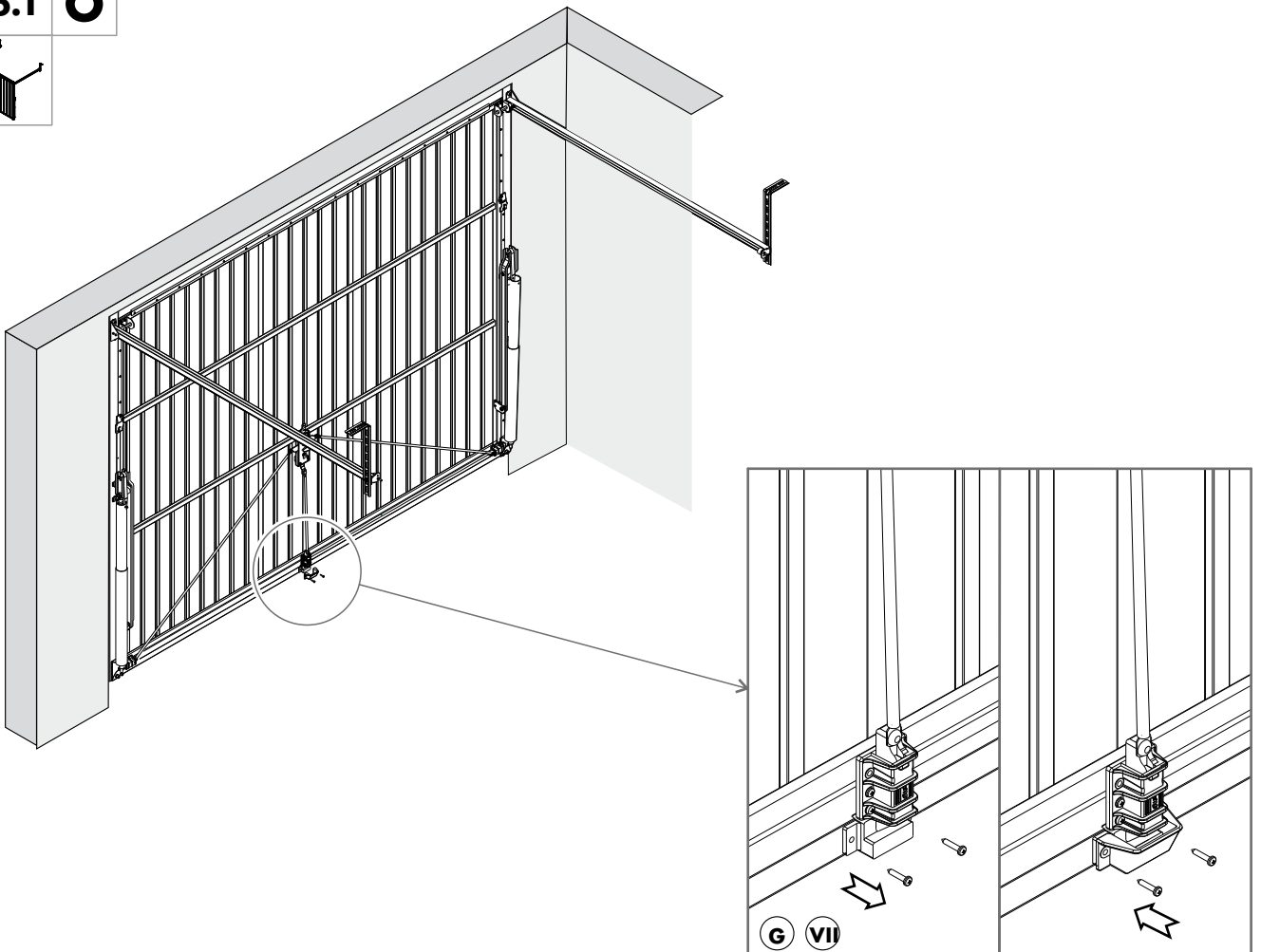
15.1

min. 1 cm

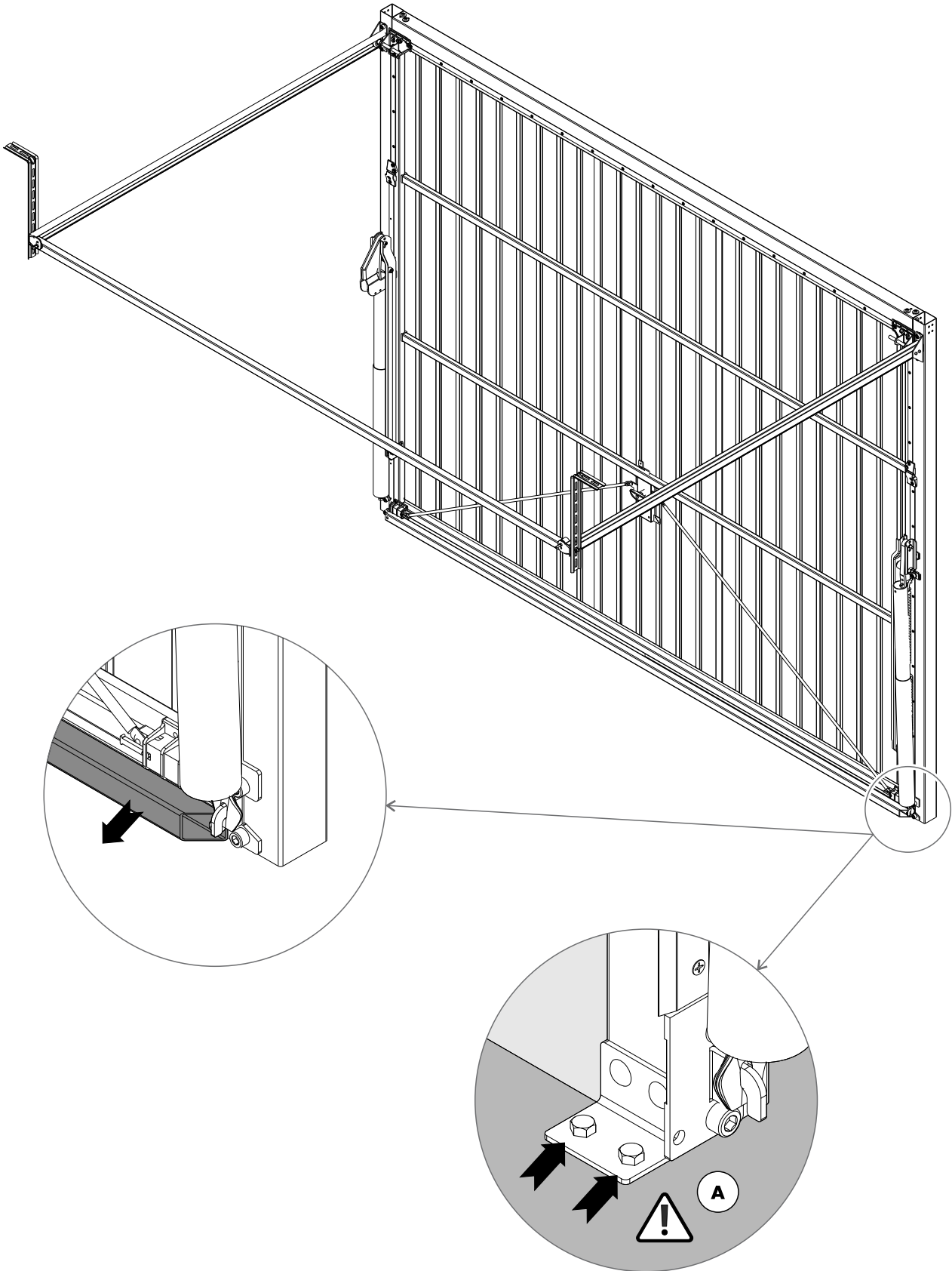
16 O



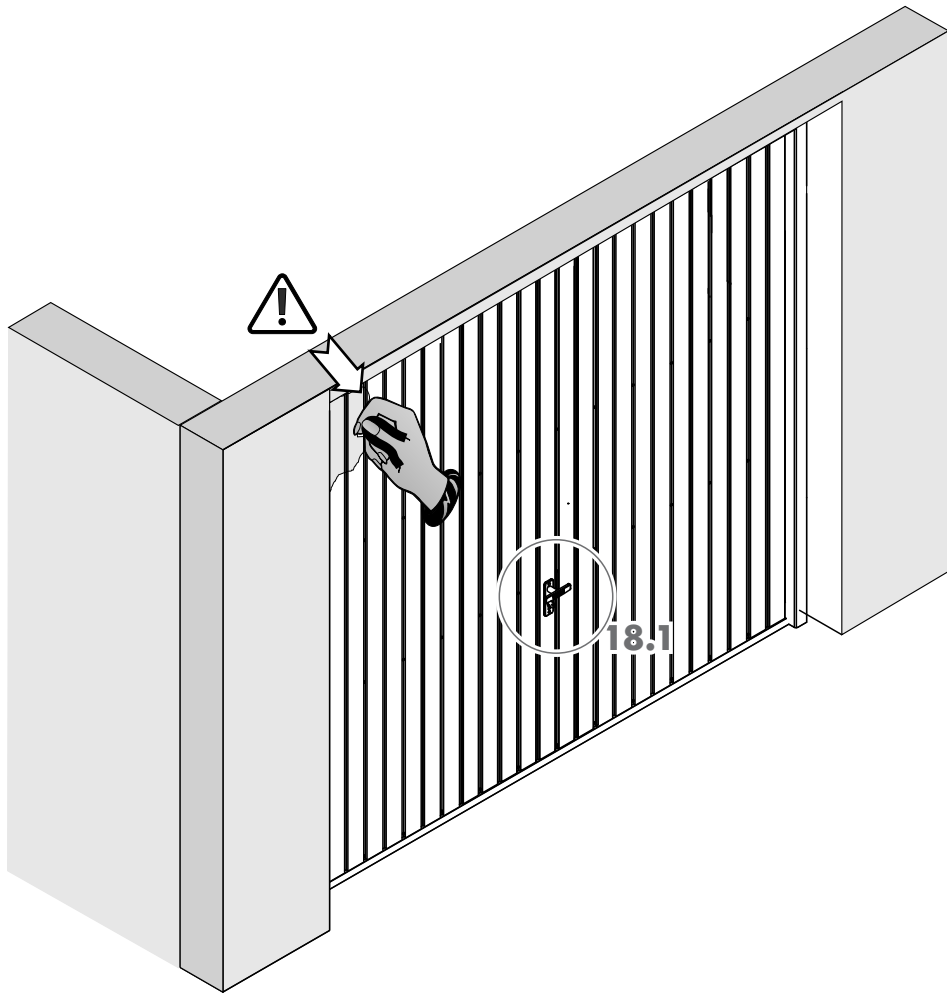
16.1 O





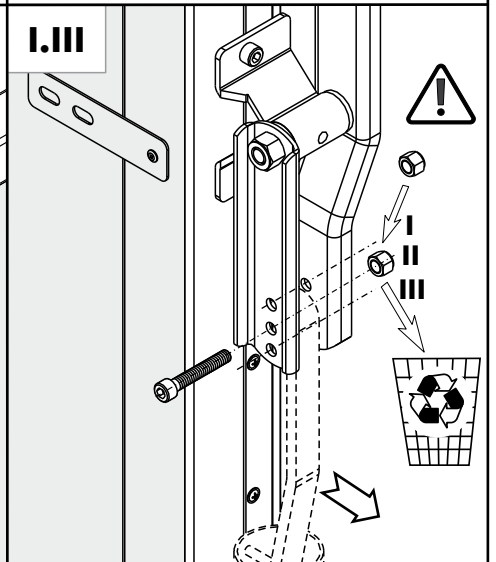
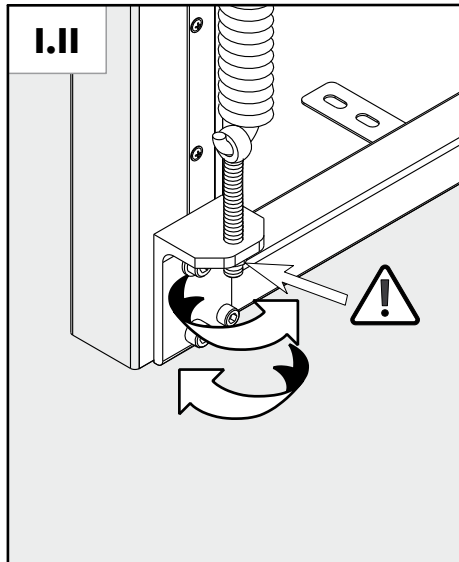
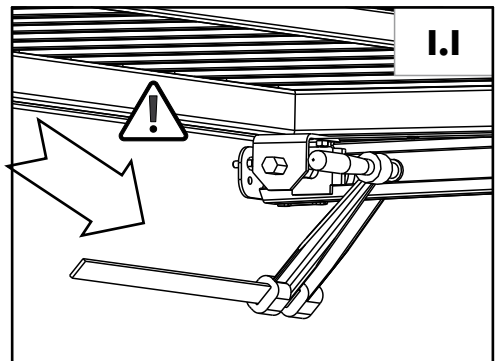
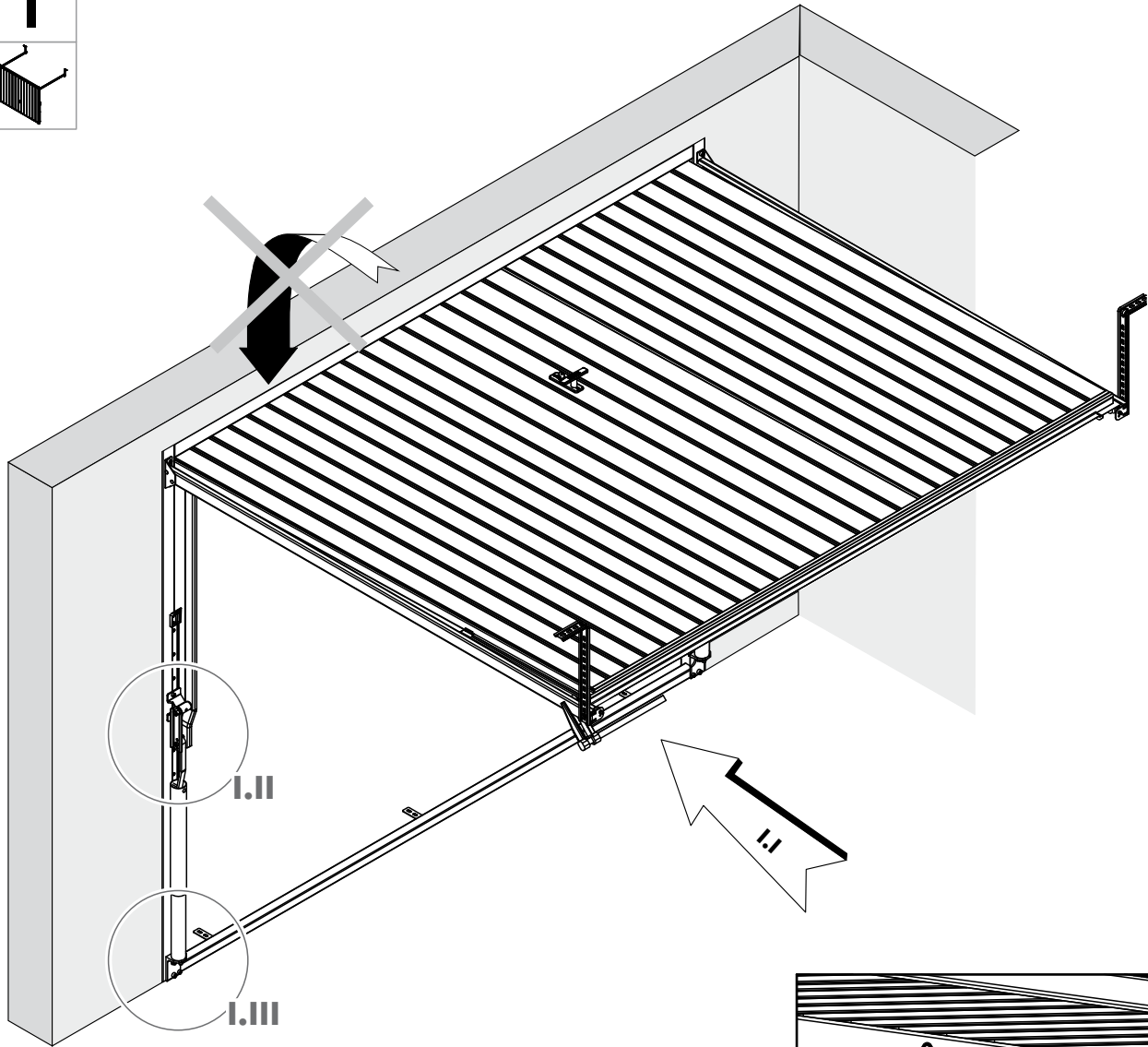
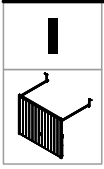


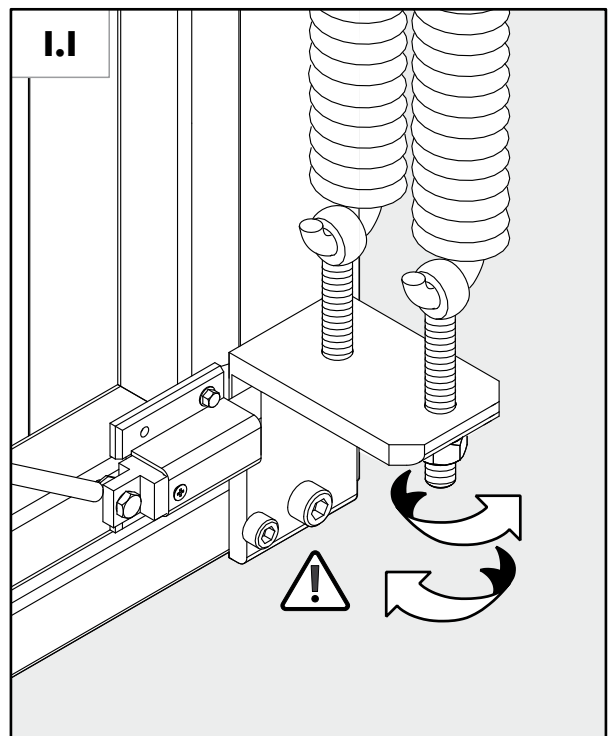
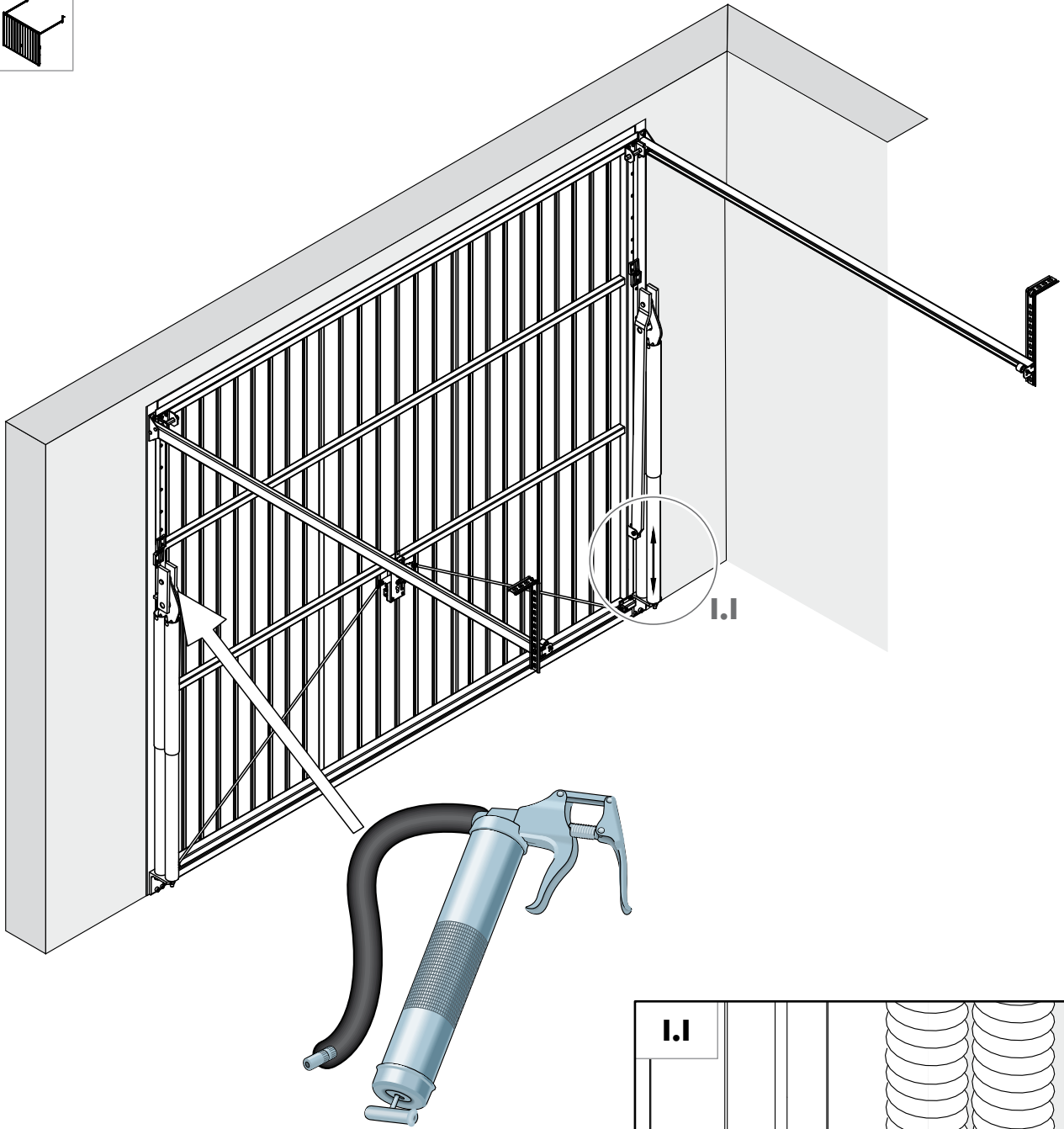
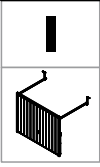
**18**

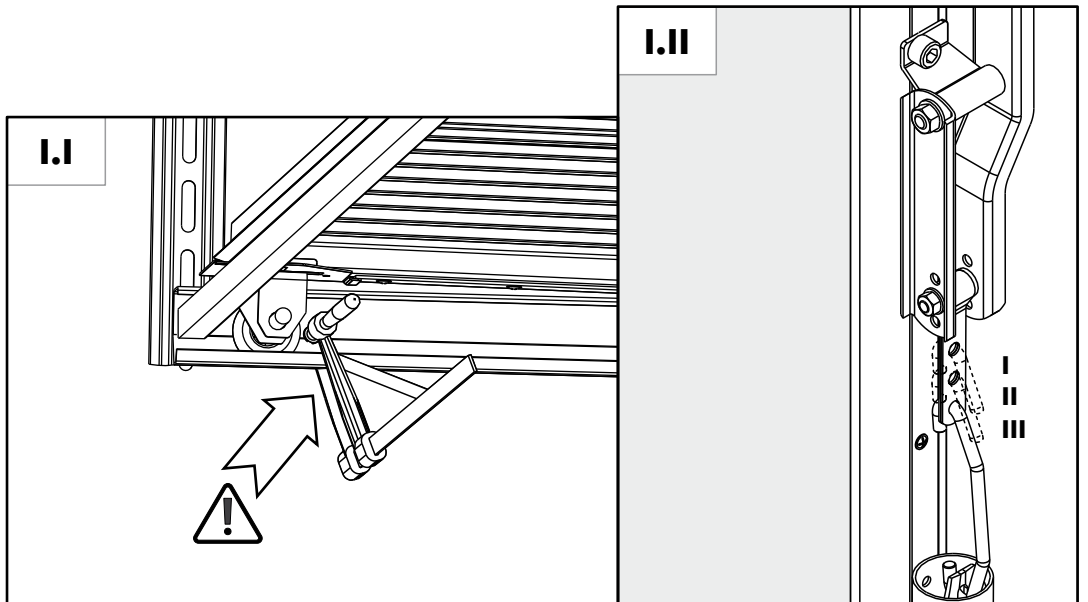
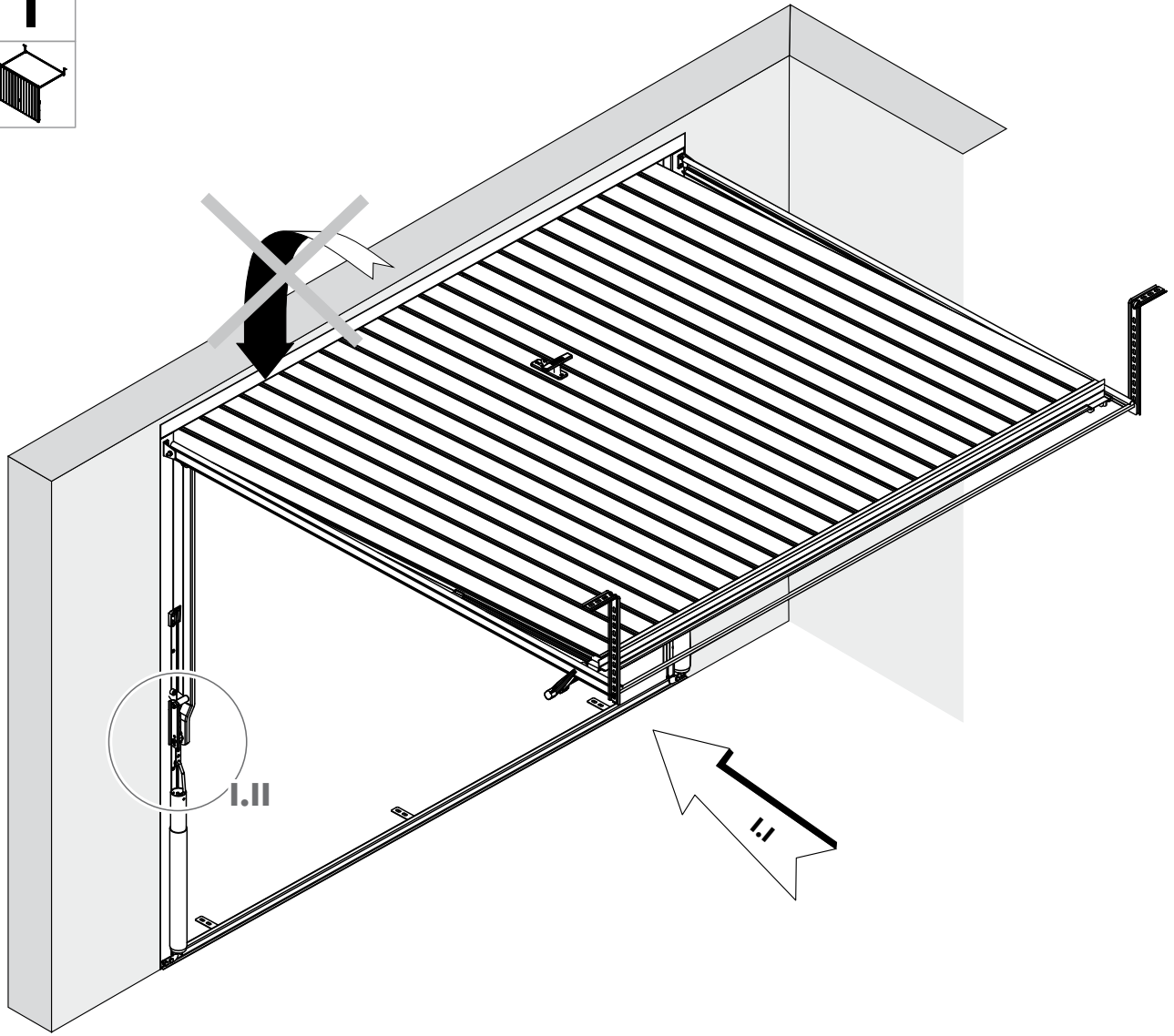
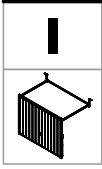


**18.1**

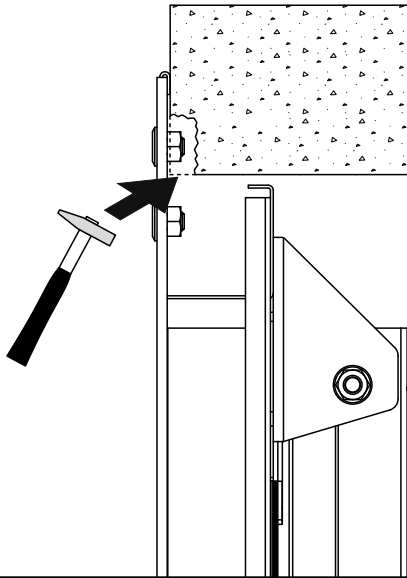




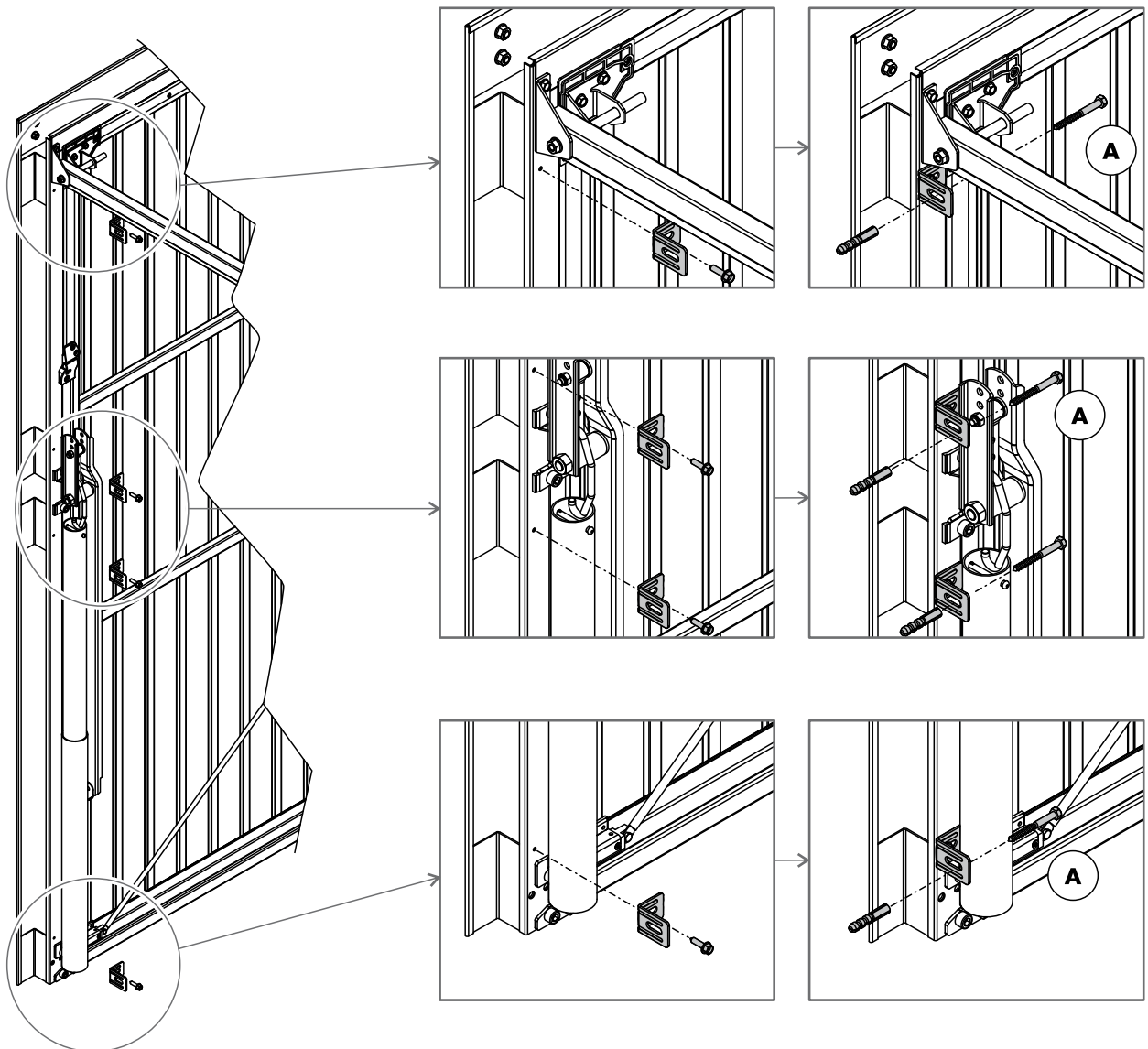




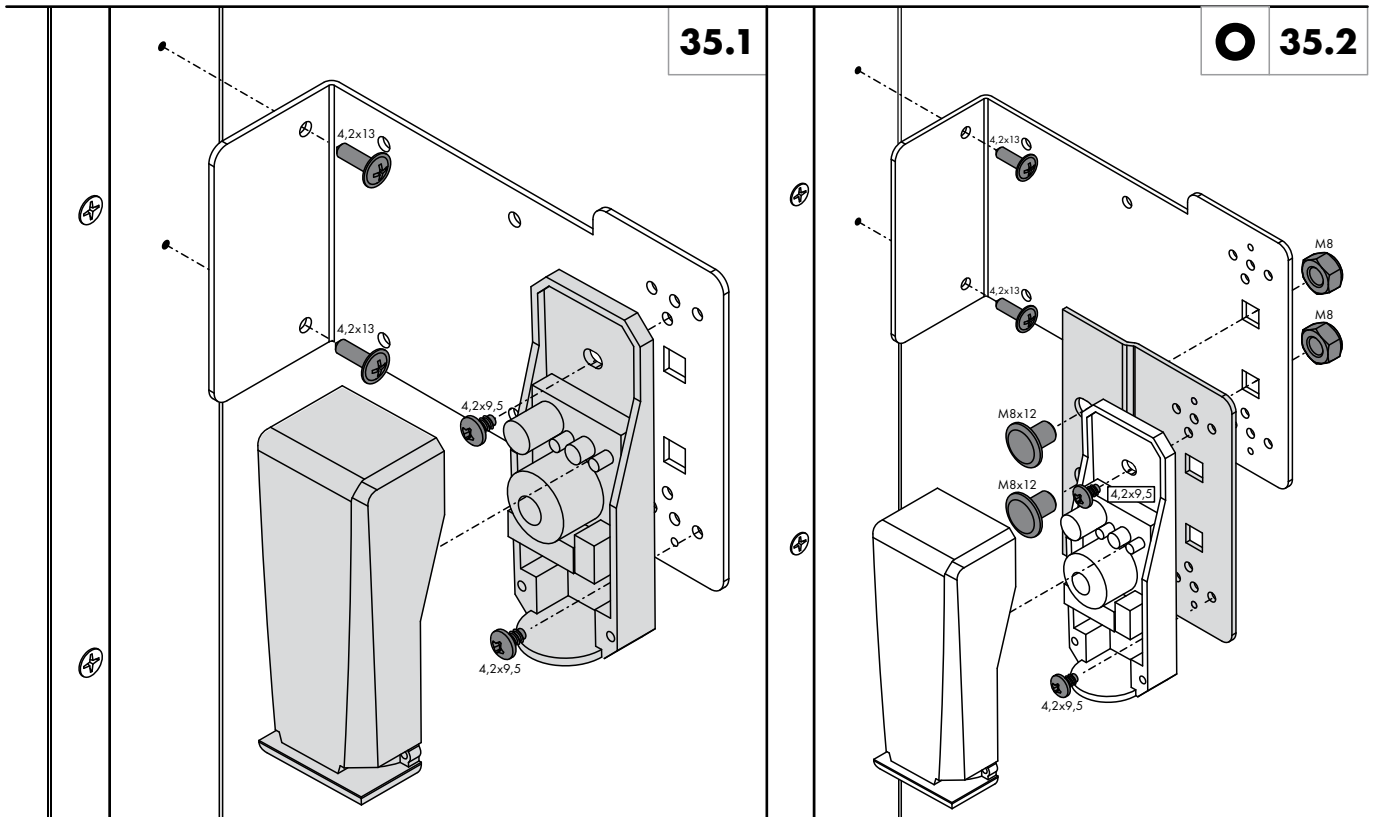
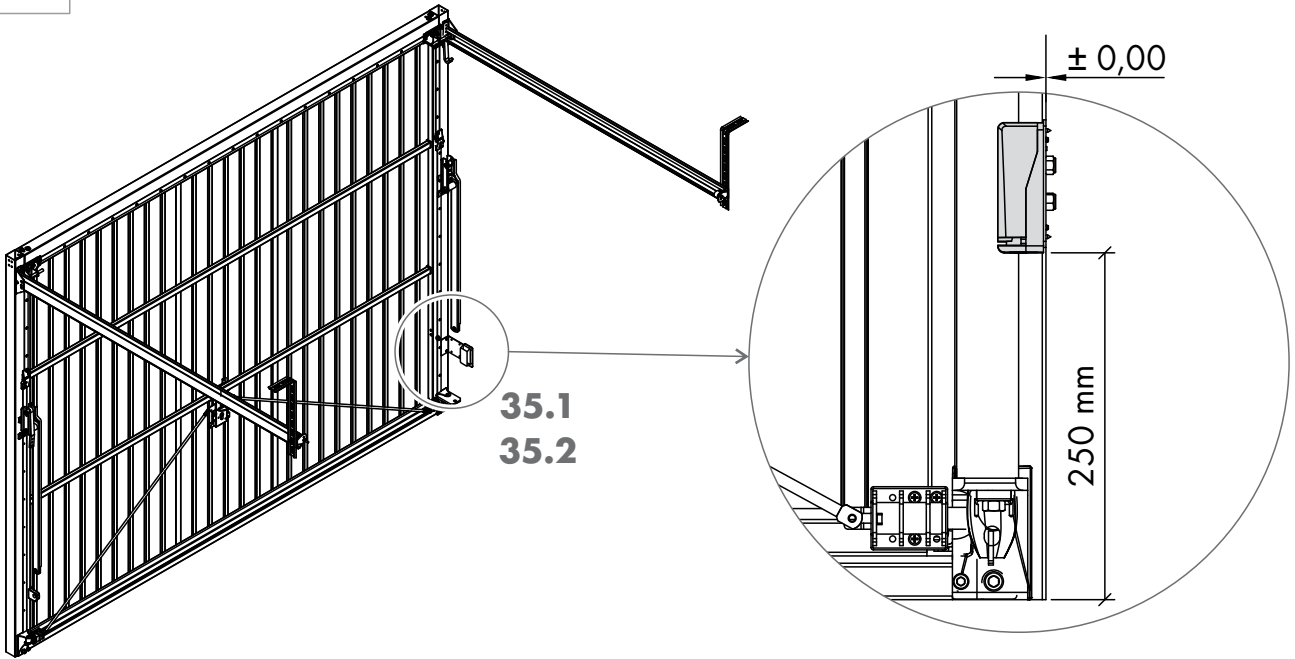
30



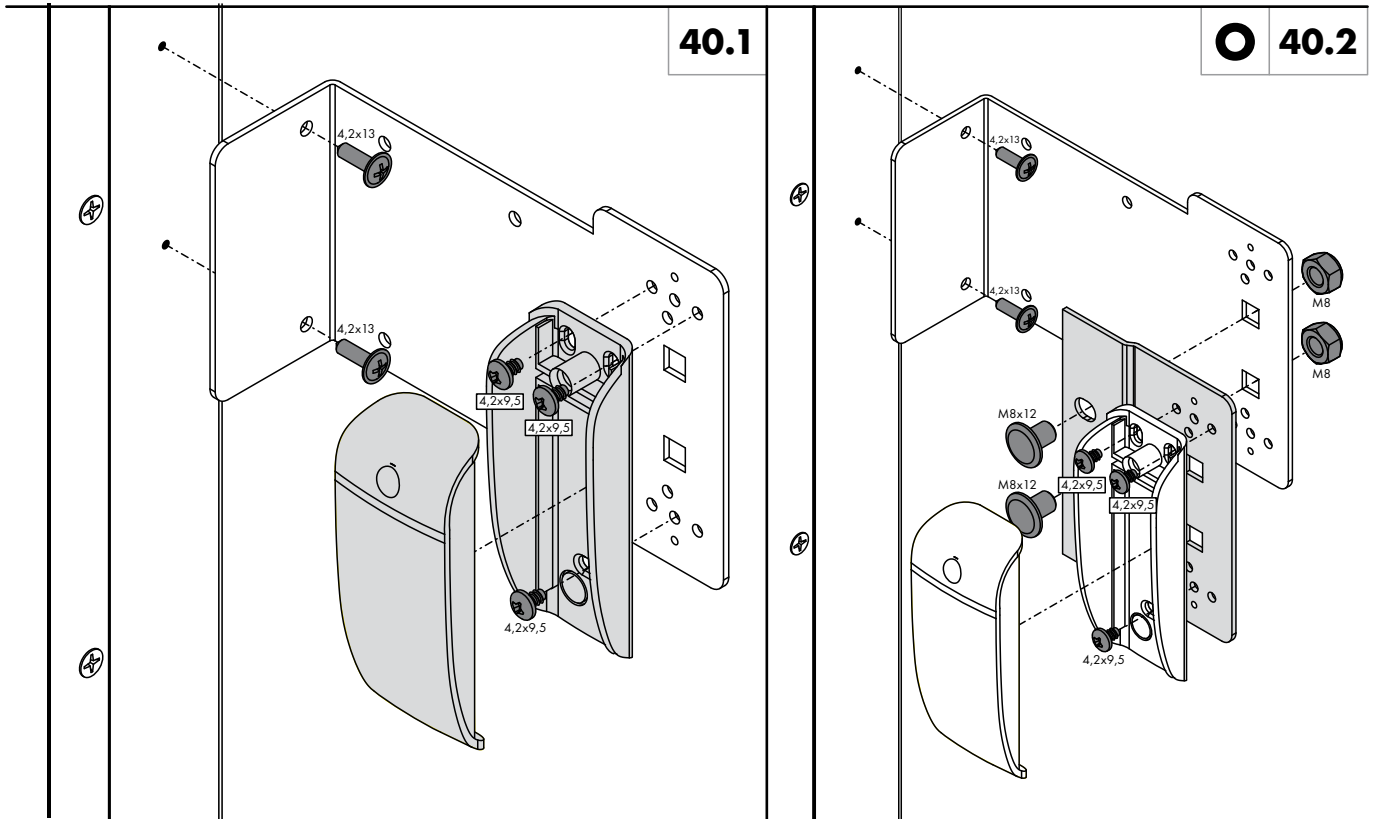
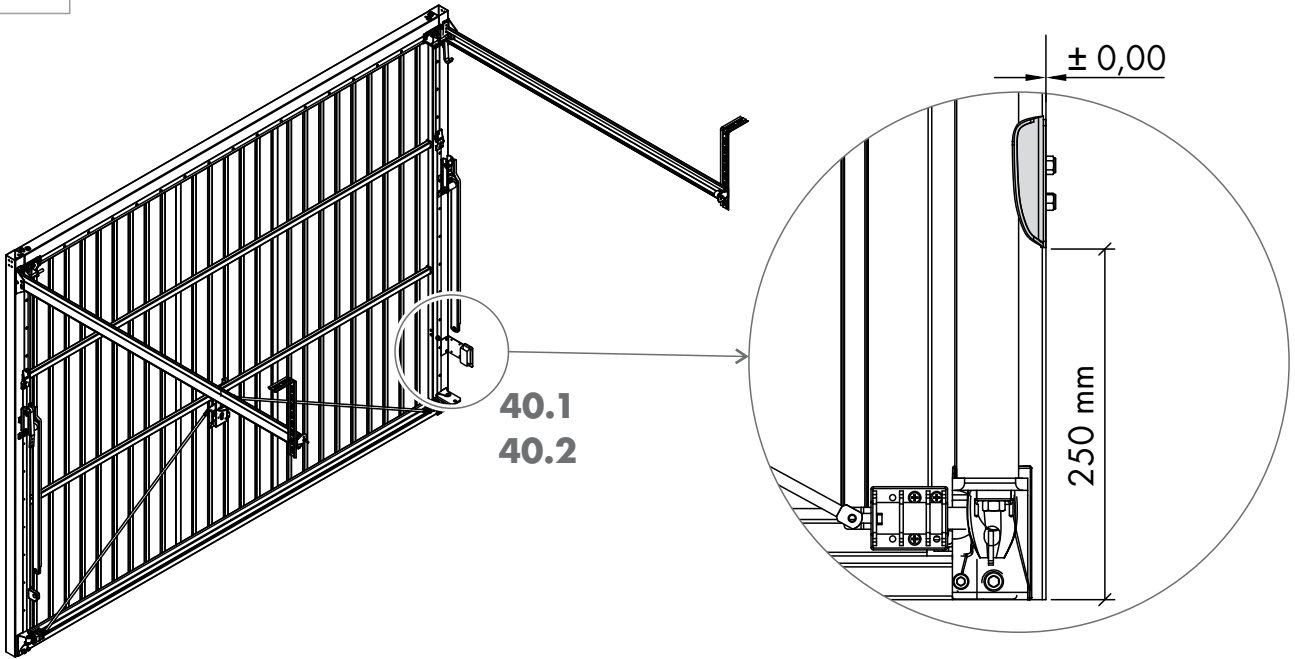
30.1



# 35 BFT

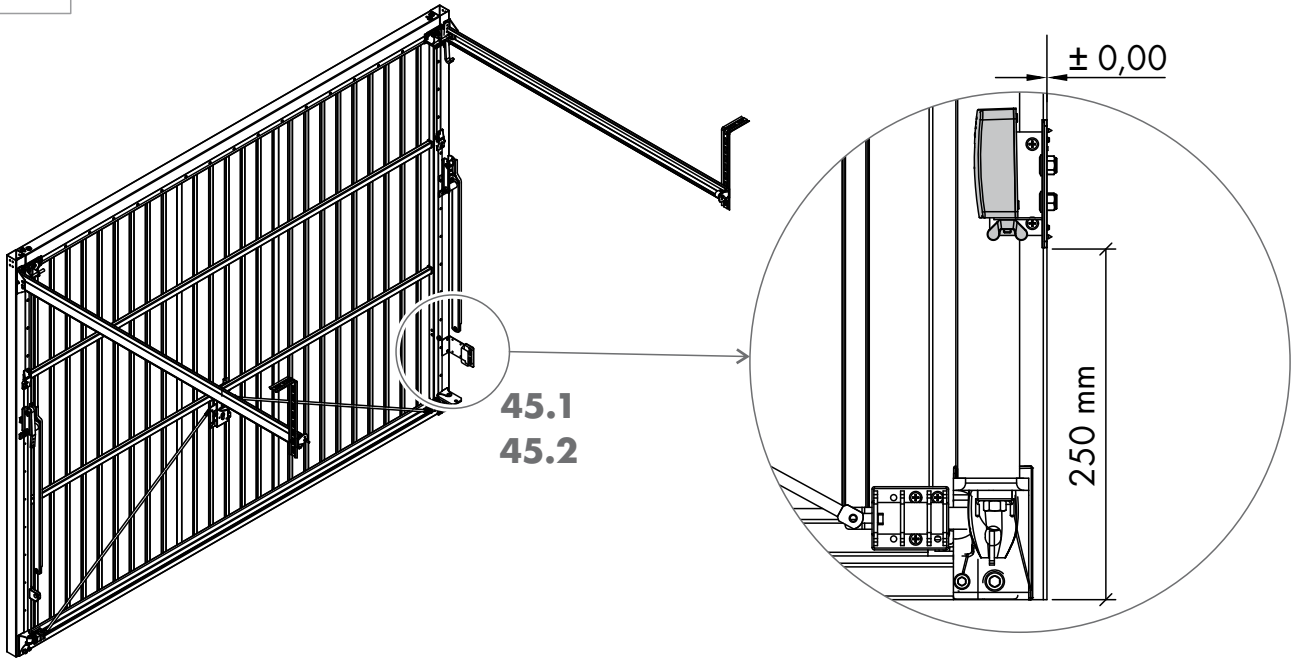


# 40 SOMFY

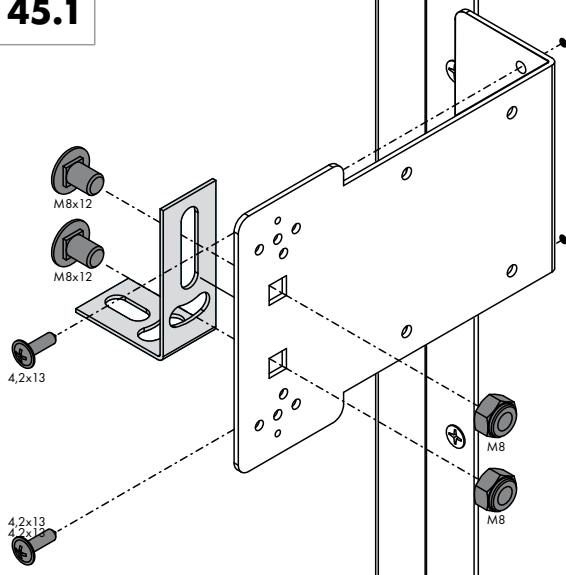




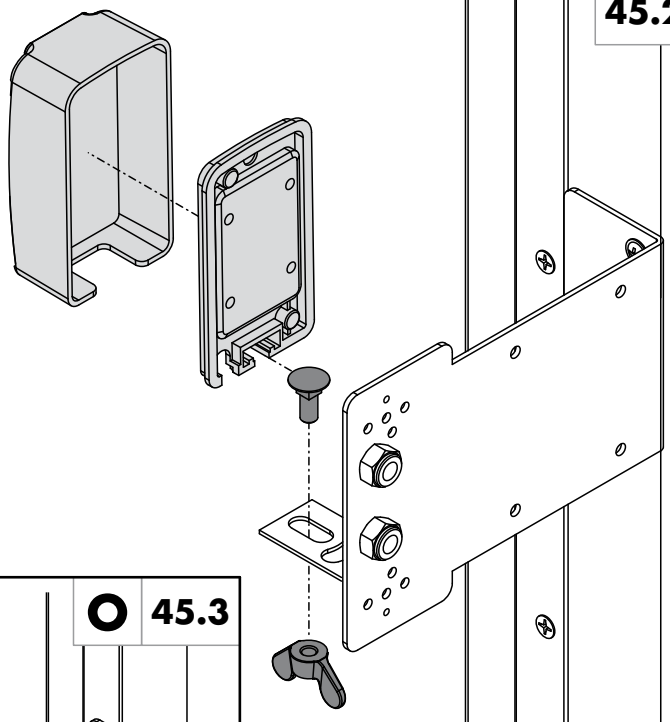
# 45 SOMMER



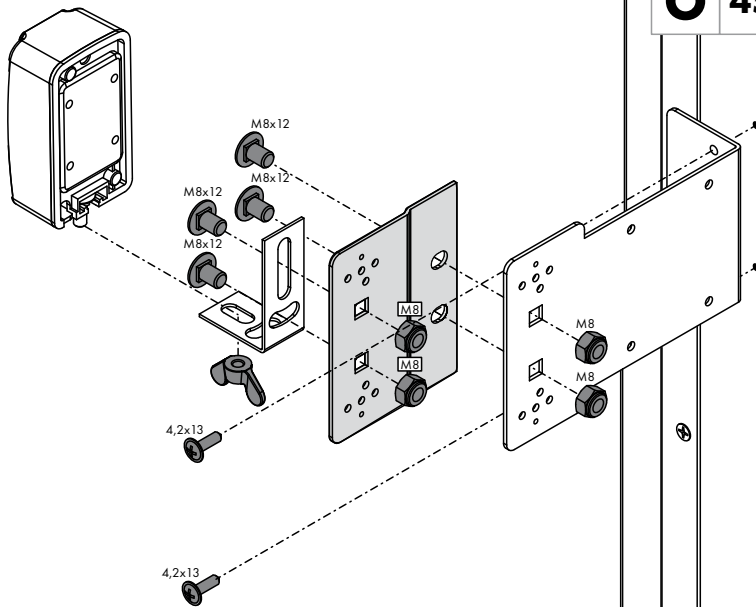
45.1



45.2



45.3



# 50 ZOOM

