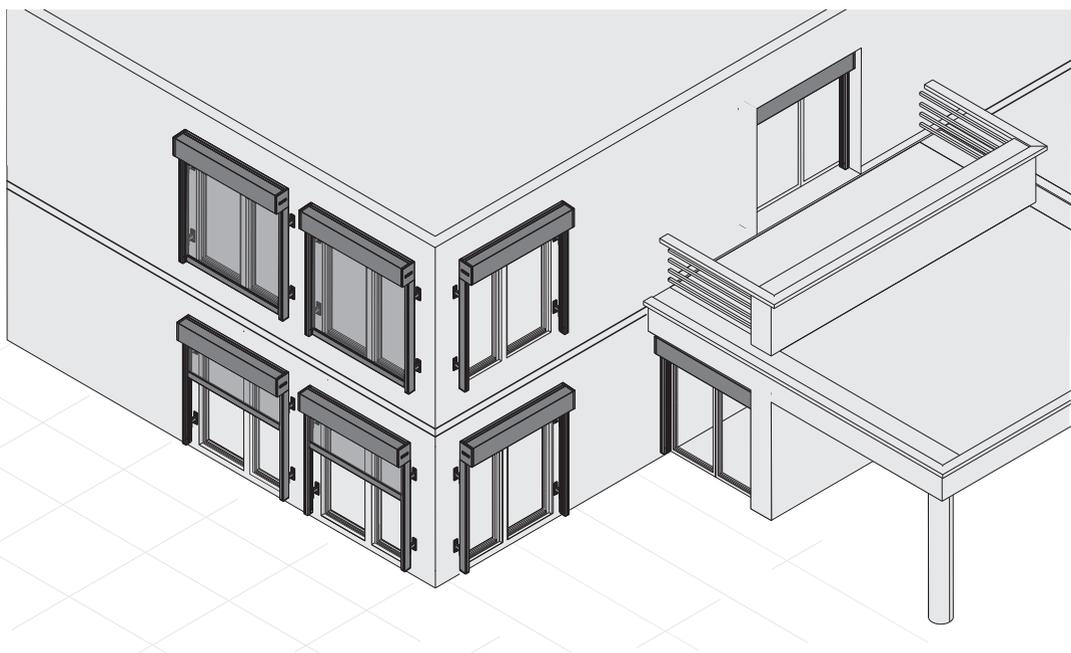


# Installation instructions

Vertical awning

VENTOSOL VM 720/3



Read these installation instructions before starting any work!

Keep for future use!

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# Contents

<b>1. Safety</b> .....	<b>4</b>
1.1 Intended use .....	4
1.2 Unintended use .....	4
1.3 Personnel requirements .....	5
1.3.1 Safety aspects .....	5
1.3.2 List of qualifications .....	5
1.4 Residual risks.....	6
1.4.1 Electrical hazards .....	6
1.4.2 Risk of injury from failure to act with due care .....	6
1.4.3 Improper transport.....	7
1.4.4 Improper installation .....	7
1.4.5 Handling the packaging material .....	8
1.4.6 Spare parts.....	9
1.5 Requirements for the place of installation.....	9
<b>2. Installation</b> .....	<b>10</b>
2.1 Explanation of symbols.....	10
2.1.1 Warning and notice symbols.....	10
2.1.2 Personal protective equipment.....	10
2.1.3 Symbols for actions, optional activities, instructions and requirements .....	11
2.1.4 Tools and materials .....	12
2.1.5 Installation type .....	12
2.2 Transport .....	13
2.3 Preparing the awning parts .....	15
2.4 Self-supporting installation (up to max. 4200 mm).....	16
2.5 Fixed recess and direct installation (up to max. 7000 mm).....	25

# 1. Safety

## 1.1 Intended use

Vertical awnings (VENTOSOL) are used for vertical shading for elements such as windows, glass facades and pavilions, balcony railings, terraces and glass roofs. Vertical awnings are exclusively used to provide shade and sun protection.

The VENTOSOL VM720/3 vertical awning may only be installed and operated under the following conditions:

- All requirements for the place of installation are fulfilled  
↳ "1.5 Requirements for the place of installation" on page 9.
- The vertical awning was properly installed.
- Only fastening materials that will hold the load to be lifted were used. See the supplied data sheet on base surfaces and fasteners.
- The vertical awning was properly connected to the electrical grid, properly grounded and secured with its own fuse.

Any use going beyond the intended use or any other use is regarded as unintended use.

## 1.2 Unintended use

**⚠ WARNING**



### **Danger in case of unintended use!**

- Do not connect, lean against, drill, glue on or attach anything to the vertical awning or make any other technical changes to it.
- Never use abrasive, corrosive or aggressive cleaning agents on any components of the vertical awning.

Unintended use may result in accidents with serious injuries and property damage.

## 1.3 Personnel requirements

### 1.3.1 Safety aspects

#### **WARNING**



#### **Risk of accident if insufficiently qualified!**

- All activities should only be carried out by persons who are qualified as described in the following chapter.

If work on the vertical awning is carried out by inadequately qualified personnel, there is a risk of accidents.

### 1.3.2 List of qualifications



These operating instructions specify the personnel qualifications for the various fields of activity.

#### **Installation personnel**

The installation personnel is competent personnel who have been trained and instructed for installation by STOBAG AG for the product.



#### **Licensed electrician**

Due to his knowledge and experience as well as his knowledge of the relevant standards and regulations, the licensed electrician is able to carry out work on electrical systems and to recognize and avoid possible dangers independently. In addition, he must provide proof of his technical qualification, which certifies the ability for him to carry out work on electrical installations. The licensed electrician must comply with the provisions of the applicable accident prevention legislation and has been trained in the operation of the awning.

## 1.4 Residual risks

### 1.4.1 Electrical hazards

**⚠ DANGER**



#### **Risk of death due to electric current!**

- Work on the electrical system must only be carried out by licensed electricians.
- Only connect the cabling according to the STOBAG wiring diagram.
- If electrical components or cables are damaged, switch off the power supply immediately and have them repaired.
- Always observe the 5 safety rules:
  - Switch off.
  - Secure against restarting.
  - Determine that there is no voltage.
  - Ground and short-circuit.
  - Cover or barrier off adjacent live components.
- Never bridge fuses or put them out of operation.
- Keep moisture away from live components.

Contact with live parts may result in immediate danger to life due to electric shock.

### 1.4.2 Risk of injury from failure to act with due care

**⚠ WARNING**



#### **Risk of injuries during installation!**

- Always proceed with caution and concentrate during all installation work.
- Always have a second person help with all work.
- Only lift or carry components weighing 55 lbs (25 kg) or more with multiple people.
- Always wear the required personal protective equipment.

There is always a risk of injuries during installation work.

### 1.4.3 Improper transport

#### **WARNING**



#### **Risk of accident due to improper transport!**

- Only use suitable means to move the awning/packages (e.g. lift truck).
- Transport only in packaged condition and avoid major bumping and impacts.
- Never lift loads above persons.
- Always use two people to lift heavy components of the vertical awning.
- Secure packages against tipping over/falling.
- Do not remove packaging until immediately before installation.

Accidents resulting in serious injuries and property damage may occur during improper transportation.

### 1.4.4 Improper installation

#### **WARNING**



#### **Risk of accident due to improper installation!**

- Installation must only be carried out by installation personnel authorized by STOBAG AG.
- Always observe and comply with all occupational safety rules and regulations.
- Before starting work, ensure sufficient space to perform the installation.
- Handle open, sharp-edged components with care.
- Ensure order and cleanliness at the place of installation!
- Always secure all components against tipping over or falling.

Installation errors can lead to dangerous situations and considerable damage to property.

## Risk of falling

### **WARNING**



### **Risk of accident due to elevated work!**

- Before working on ladders and/or platforms, make sure that the ground is suitable, level, firm and stable.
- Ensure that ladders and platforms are completely intact and are of sufficiently elevated.
- Do not lean far out from an elevated position (ladder), turn on the ladder or climb onto facade elements or window sills.
- Wear non-slip shoes.

Careless work on ladders or platforms can result in falls leading to severe injuries.

## 1.4.5 Handling the packaging material

### **NOTICE**

### **Danger to the environment due to improper disposal!**

- Dispose of packaging materials in an environmentally friendly manner in accordance with locally applicable disposal regulations.
- If necessary, commission a specialist company with the disposal.

Incorrect disposal of packaging materials can cause danger to the environment.

## 1.4.6 Spare parts

### **NOTICE**

#### **Risk of accident due to incorrect spare parts!**

- Only use original spare parts approved by STOBAG AG.
- In case of doubt, contact our service department and have the serial or product identification number at hand.

The use of incorrect or faulty spare parts can lead to material damage.

## 1.5 Requirements for the place of installation

The place of installation must meet the following requirements:

- The place of installation is marked and cordoned off.
- The base surface has no porous areas.
- The base surface (facade) is suitable for installation.
- The available space is adequate for the size of the respective awning.
- The place of installation is spacious enough to allow safe moving and installation of the awning.

In addition to the requirements for the place of installation, always refer to and observe the information on the base surfaces and fastenings specified in the data sheet supplied.

## 2. Installation

### 2.1 Explanation of symbols

#### 2.1.1 Warning and notice symbols

These symbols and pictograms indicate dangers during installation or potential damage to property.



Danger! Electrical hazard!



Warning! Danger from falling components!



Warning! Beware!



Warning! Danger from suspended loads



Warning! Danger of hand injuries!



Caution! Risk of damage!

#### 2.1.2 Personal protective equipment

The protective equipment listed below must be available and worn during all installation work. A first-aid kit must also be present at the place of installation.



Protective clothing



Protective gloves



Safety goggles



Safety footwear



Industrial safety helmet



First aid kit

## 2.1.3 Symbols for actions, optional activities, instructions and requirements

These symbols indicate required activities, specific instructions or particular requirements.



Release/  
Unlock!



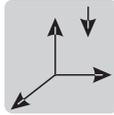
Tighten/  
Secure!



Important notes  
and useful hints



Licensed  
electrician



Align vertically!



Note the center  
of gravity!



Number of  
required  
installation  
personnel



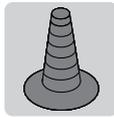
Dispose of  
properly!



Run drive motor!  
Check function-  
ality!



Work according to  
wiring diagram!



Close work area



Clean work area!



Check work!



Program/  
Teach!



Check  
delivery note!



Optional action for  
other variants

## 2.1.4 Tools and materials

If these symbols are used, tools or materials are required for the respective work.



Ratchet with plug nut



Knife



Power drill



Torx wrench set



Tape measure



Open-end wrench set  
Mxx–Mxx



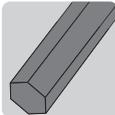
Spirit level



Ladder



Forklift/  
Lift truck



Allen wrench



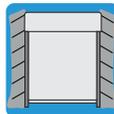
Controller for moving the awnings without electricity

## 2.1.5 Installation type

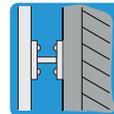
If these symbols are used, the respective installation type is described visually.



Direct wall installation



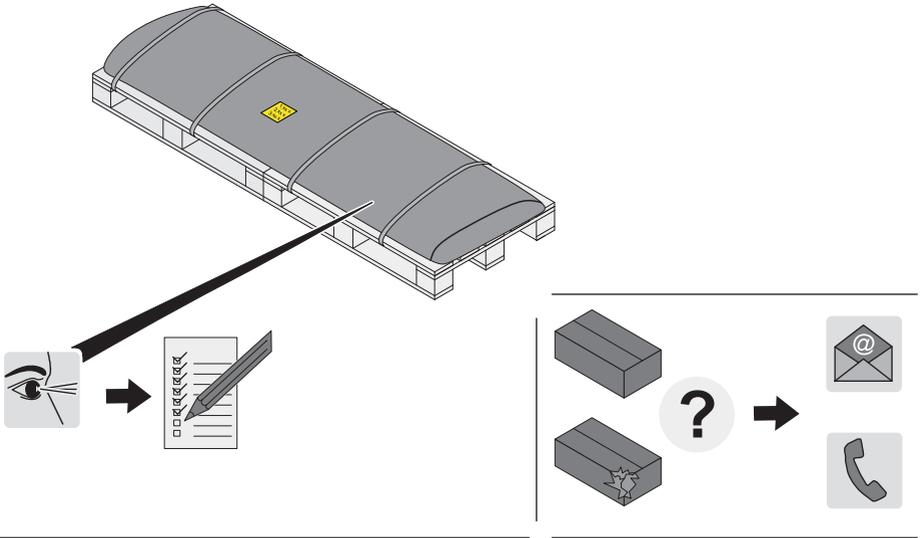
Recess installation



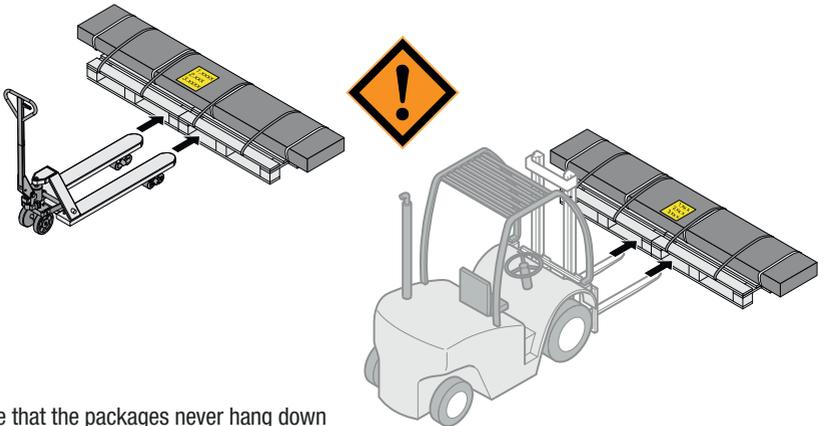
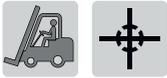
Self-supporting installation

## 2.2 Transport

1

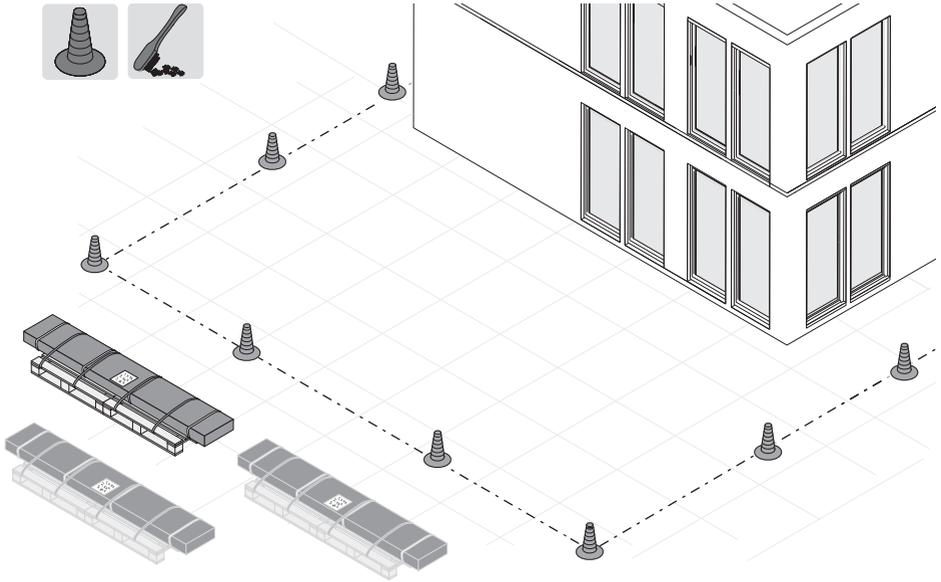


2

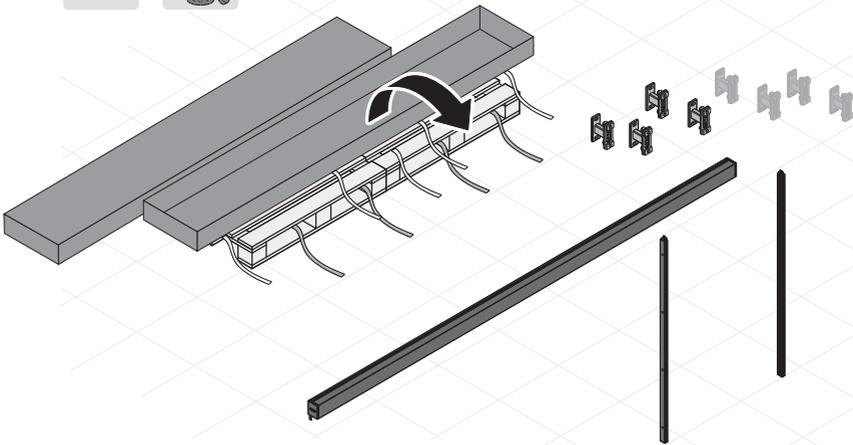


Ensure that the packages never hang down or extend far over the edge of the pallet during storage or transport.

3

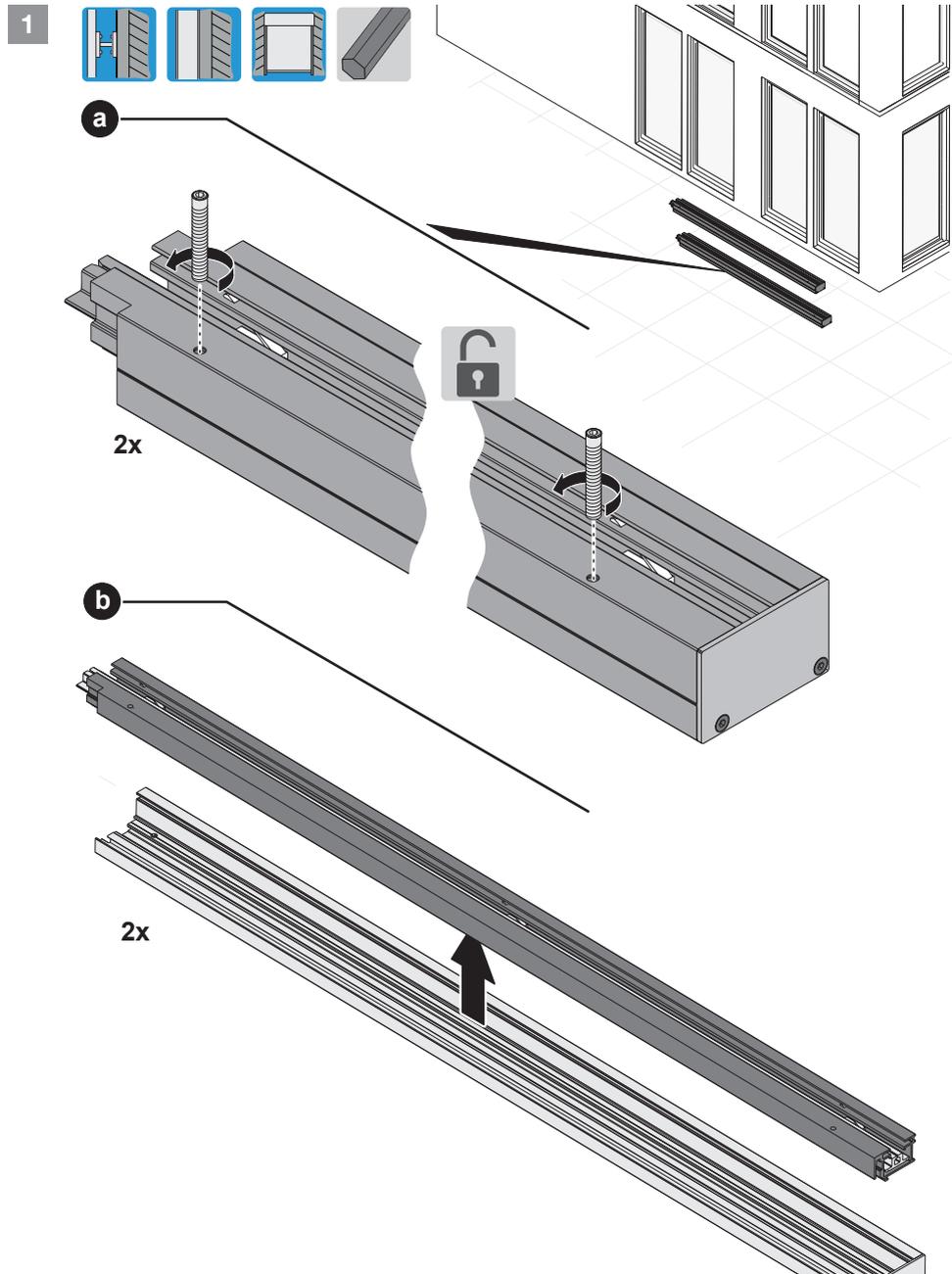


4



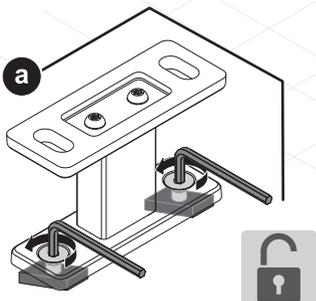
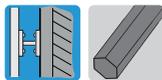
Only unpack the component of the awning that will be installed immediately thereafter.

## 2.3 Preparing the awning parts

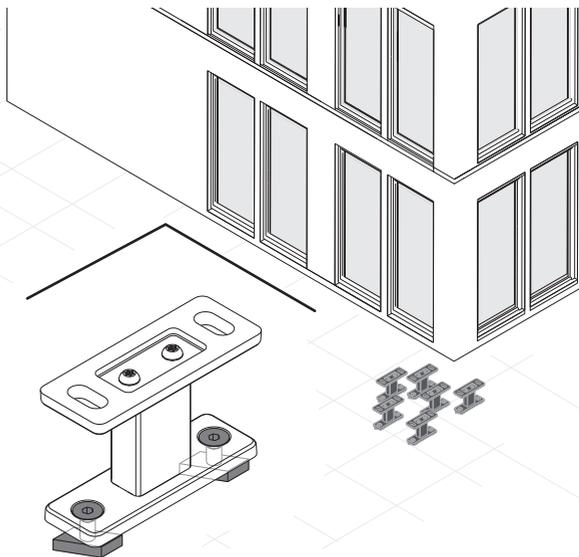


## 2.4 Self-supporting installation (up to max. 4200 mm)

1



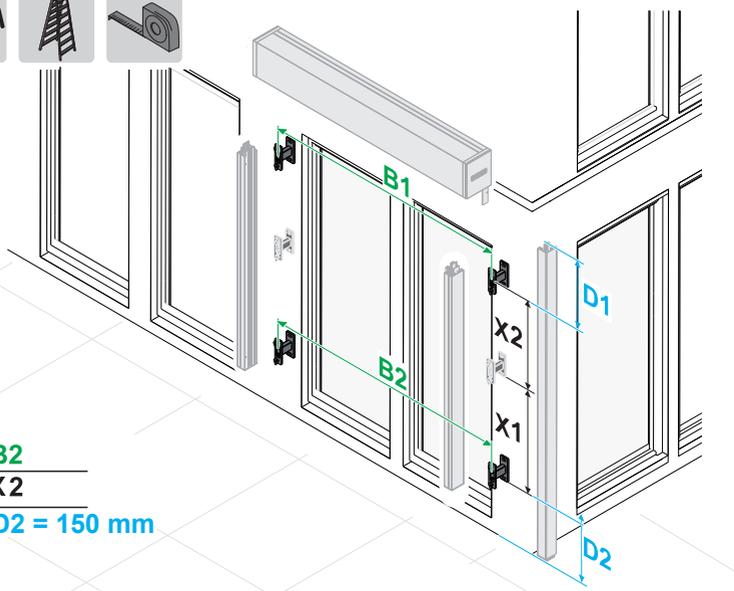
Loosen screws on all holders by a few turns.



2



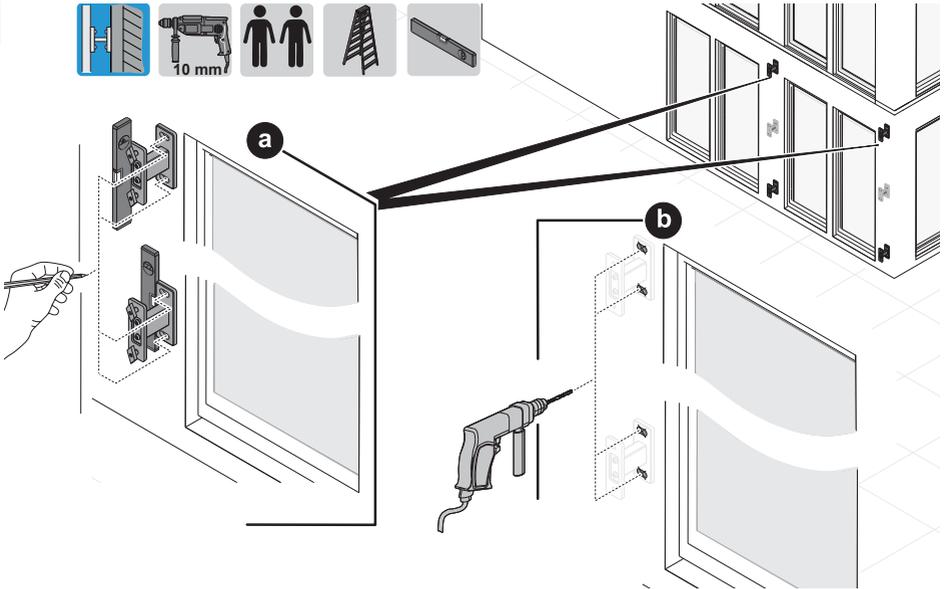
$B1 = B2$   
 $X1 = X2$   
 $D1 = D2 = 150 \text{ mm}$



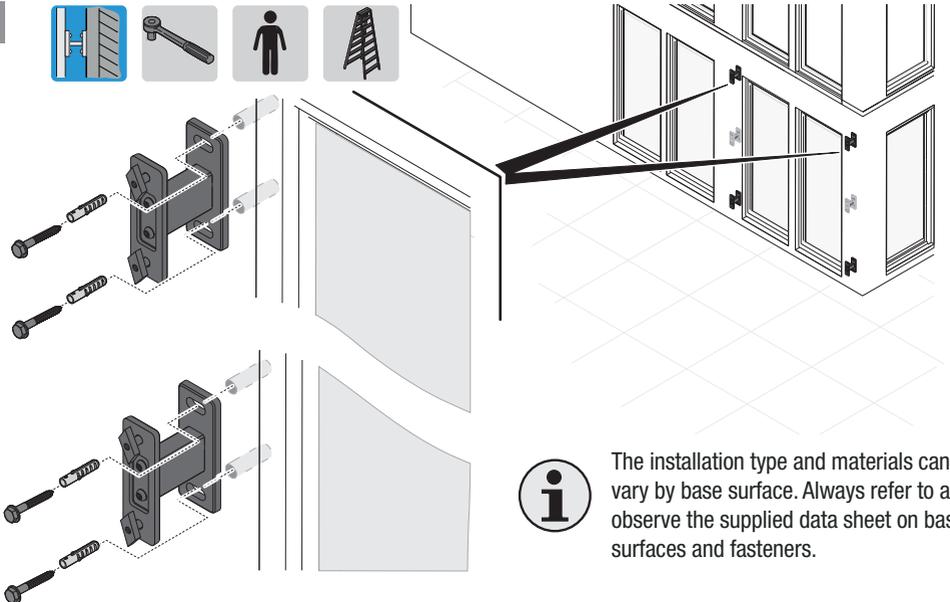
3



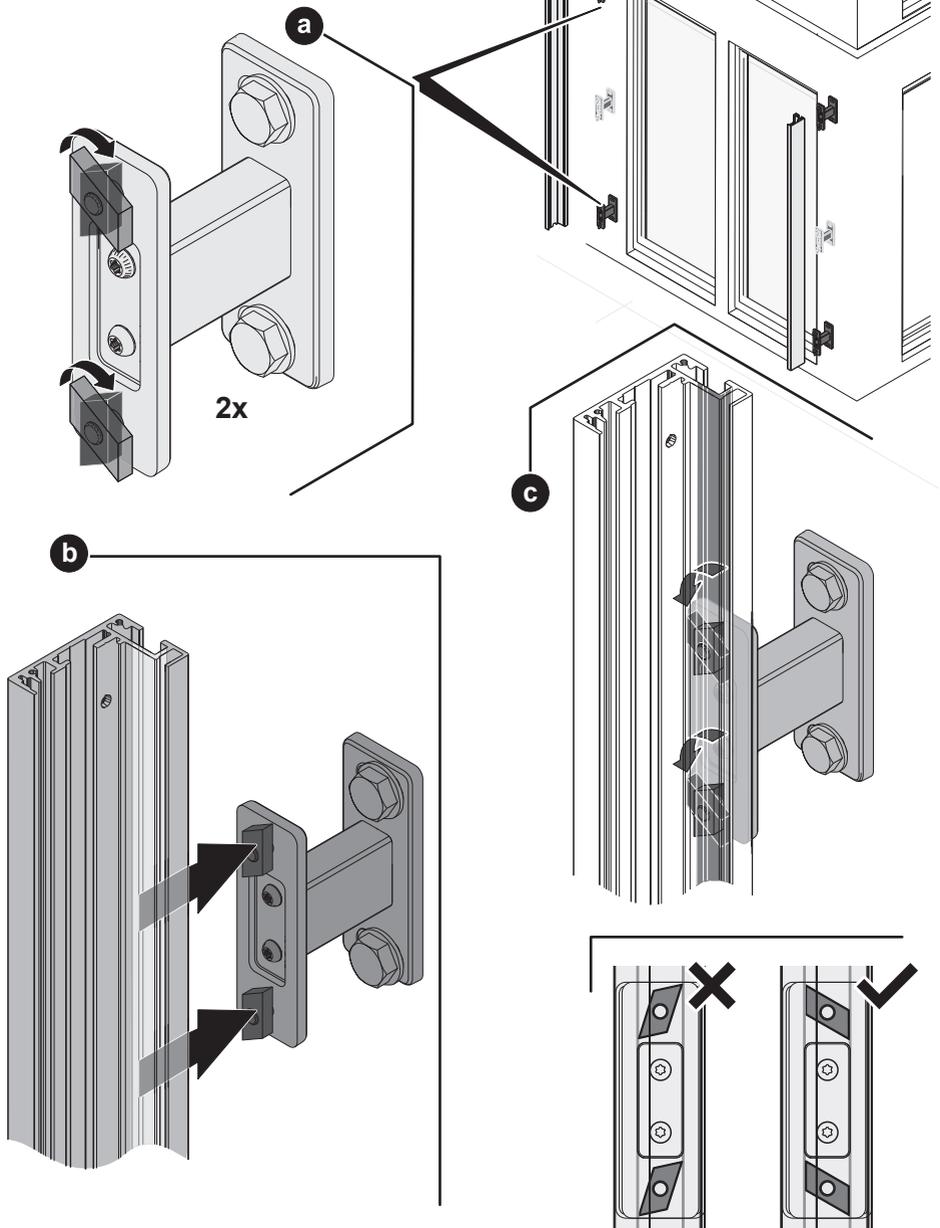
10 mm



4



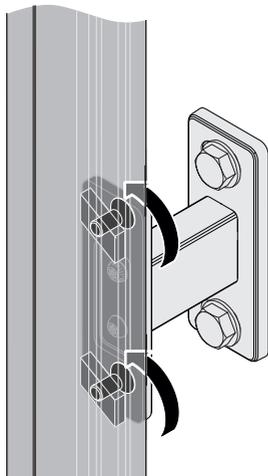
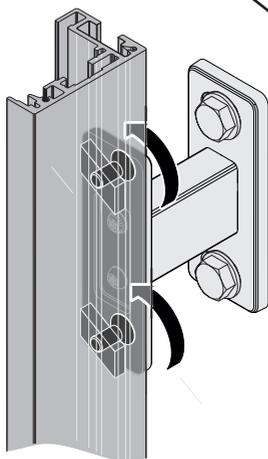
The installation type and materials can vary by base surface. Always refer to and observe the supplied data sheet on base surfaces and fasteners.



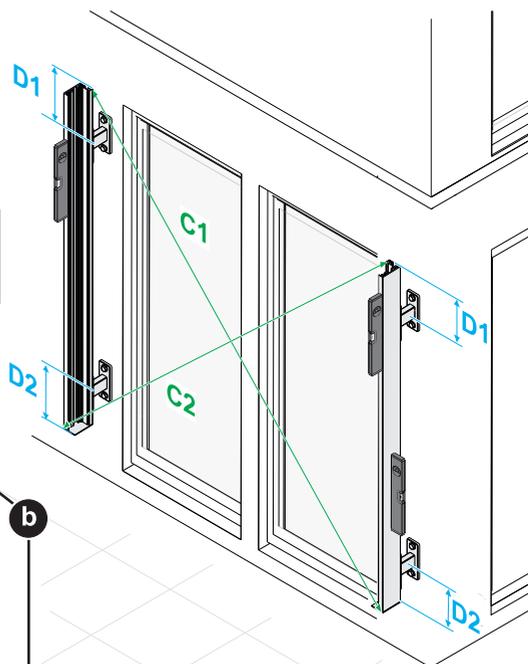
6



a

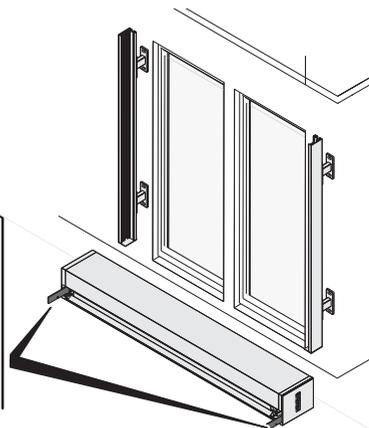
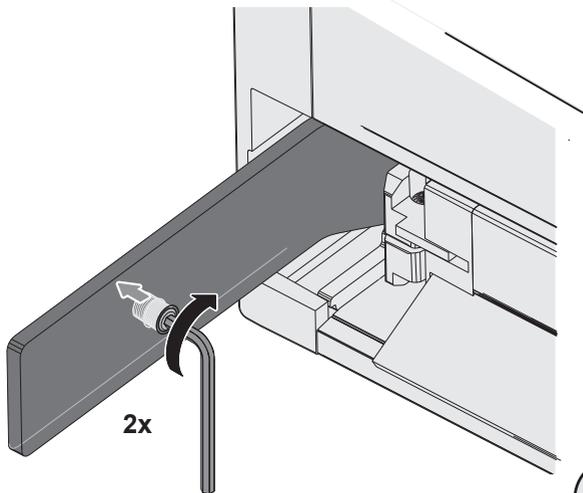
 $C1 = C2$  $D = 150 \text{ mm}$  $D1 = D2$ 

b



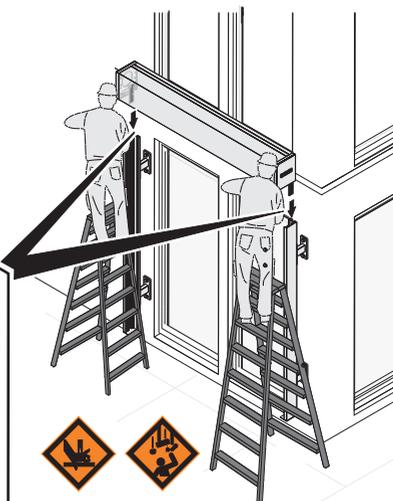
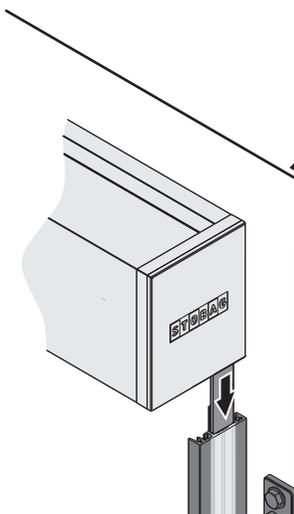
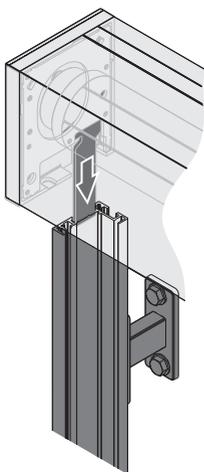
Check profiles for levelness and the same height, readjust as necessary via the slot nut on the brackets.

7

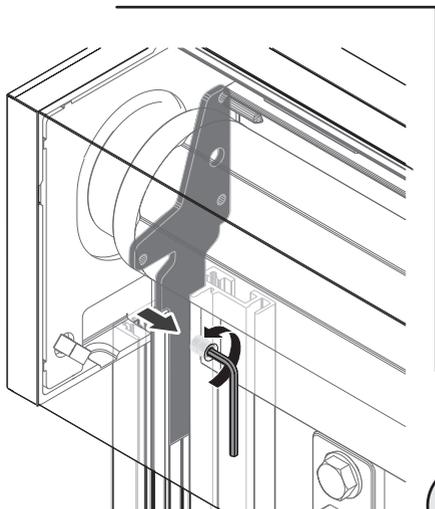


Ensure that both grub screws are flush with the inside surface.

8

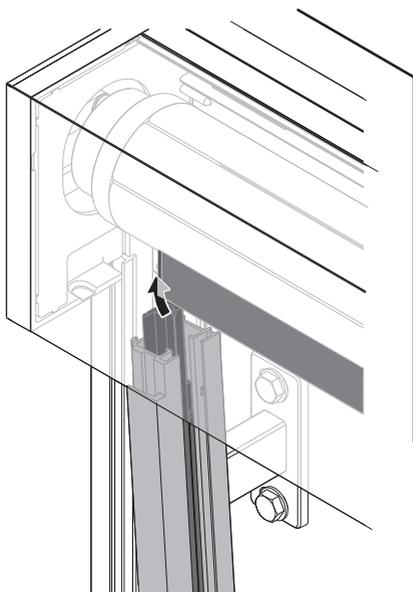


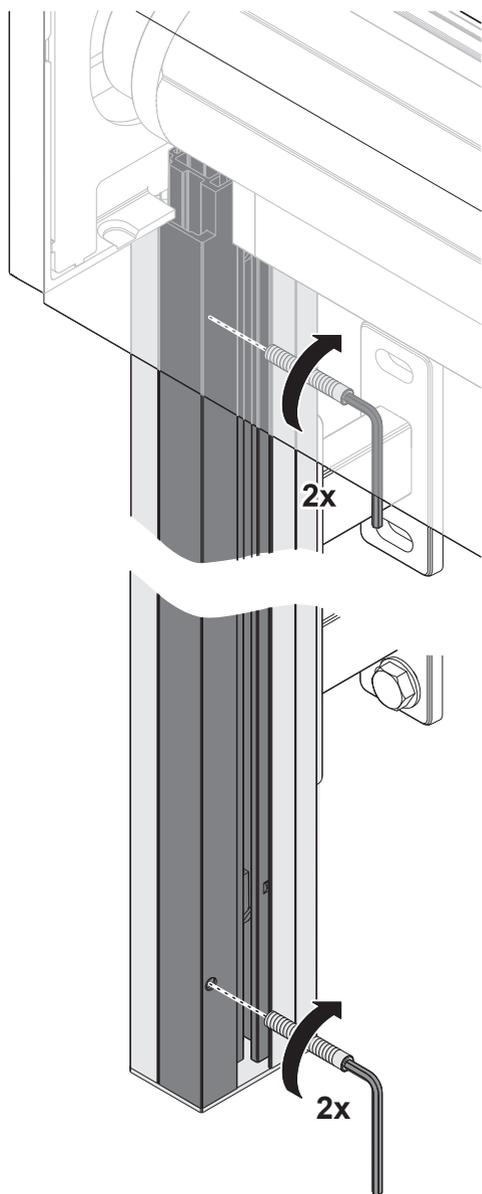
9



Ensure that the left and right box sides rest evenly on both guide rails.

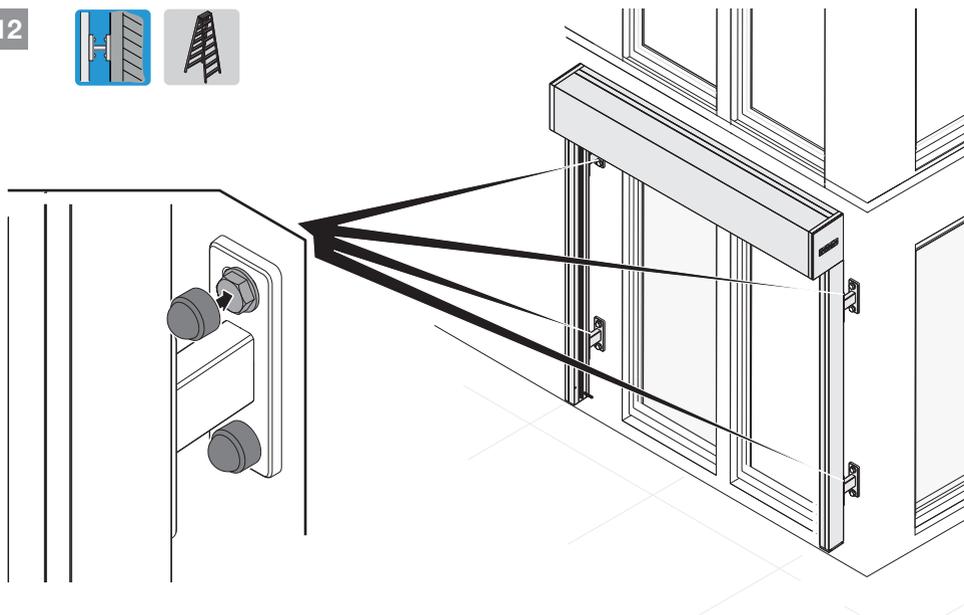
10



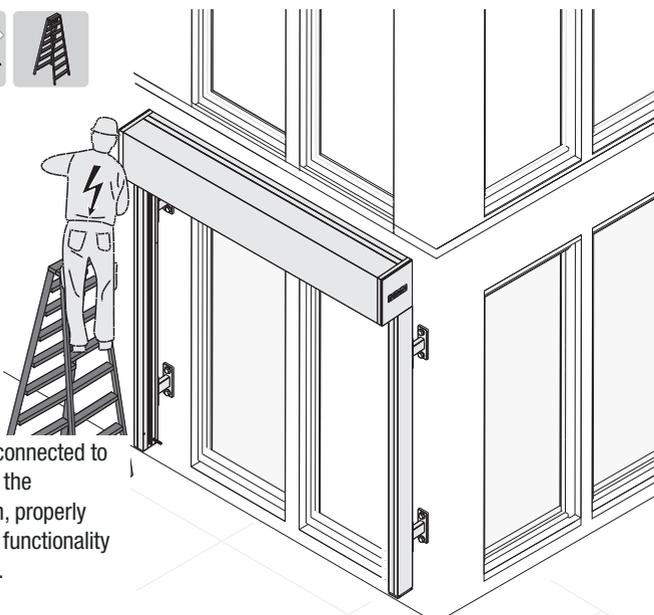


Press rails on firmly while establishing the screwed connections!

12

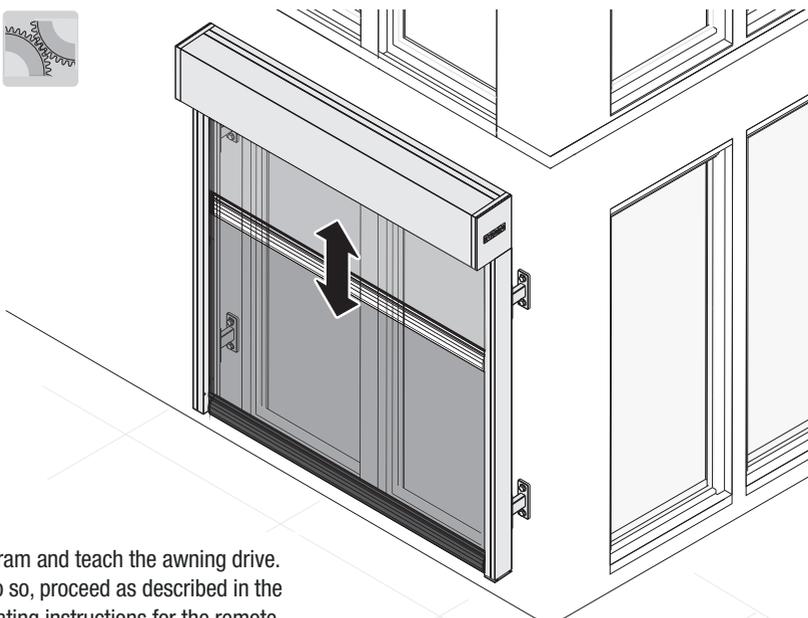


13



Have the tubular motor connected to the power supply as per the electrical wiring diagram, properly grounded and tested for functionality by a licensed electrician.

14



Program and teach the awning drive. To do so, proceed as described in the operating instructions for the remote control.

15



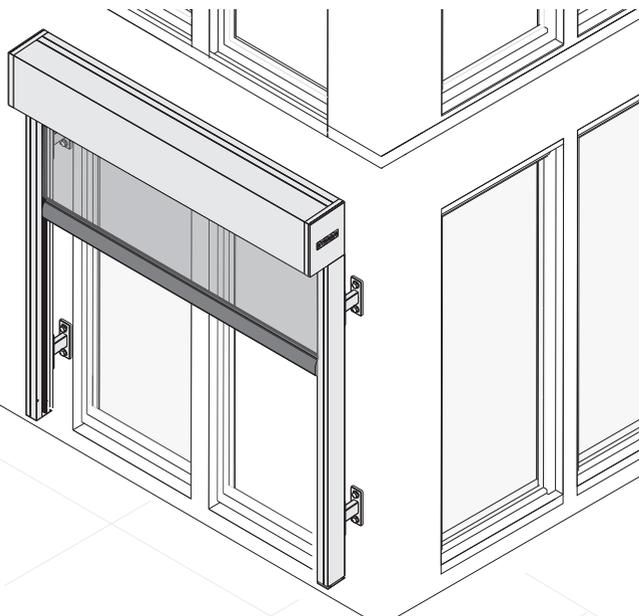
a



b

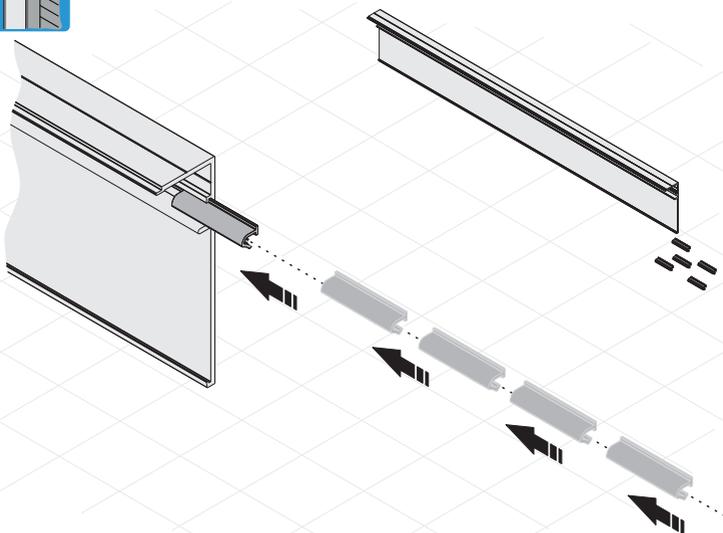
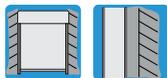


c

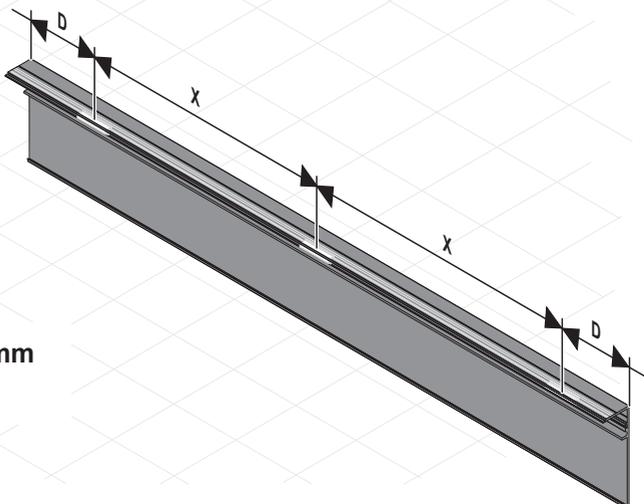


## 2.5 Fixed recess and direct installation (up to max. 7000 mm)

1



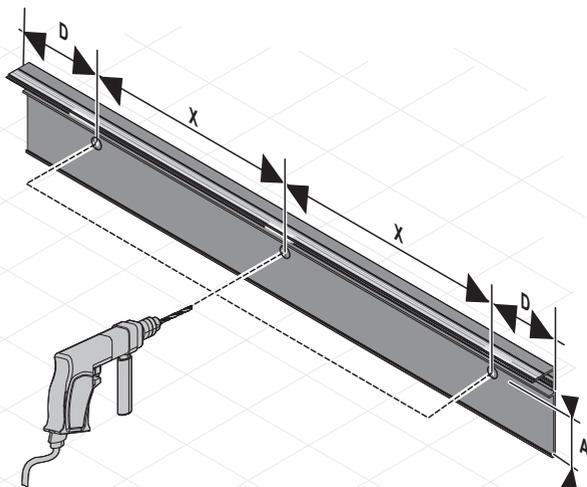
2



**X = max. 1000 mm**

**D = 150 mm**

3

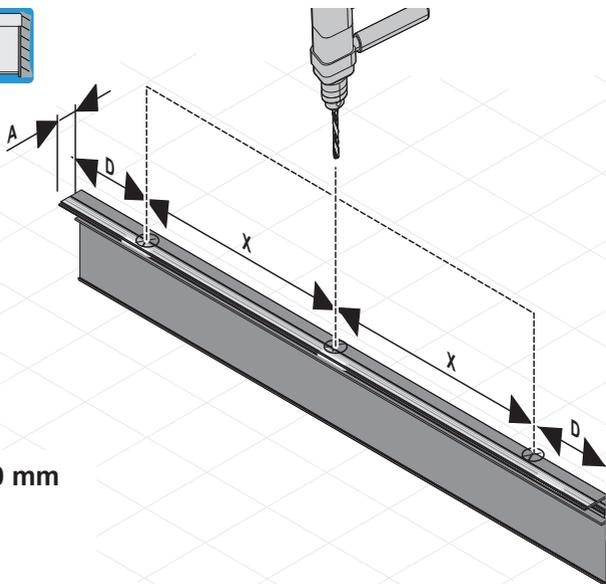


**X = max. 1000 mm**

**D = 150 mm**

**A = 125 mm**

3

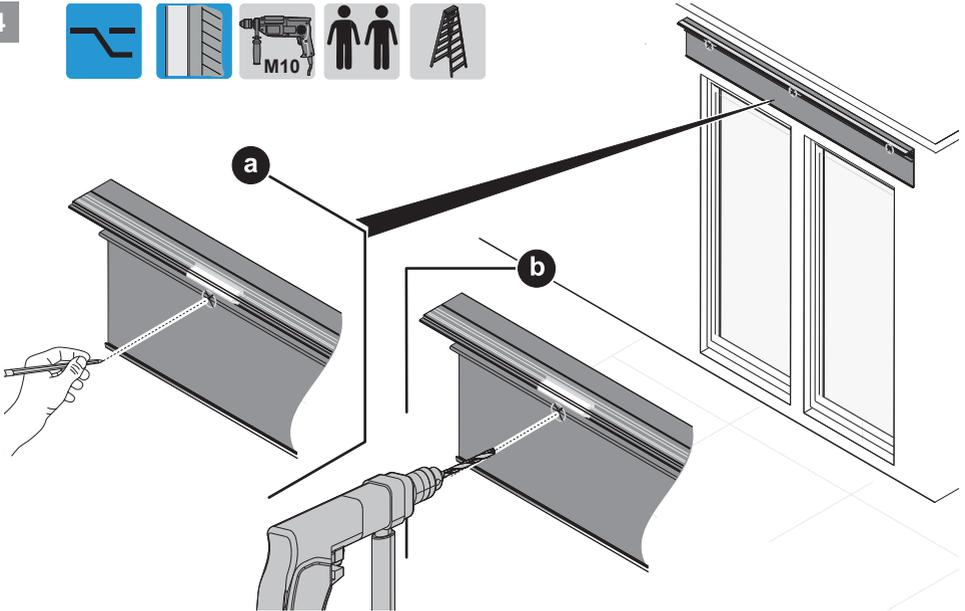


**X = max. 1000 mm**

**D = 150 mm**

**A = 20 mm**

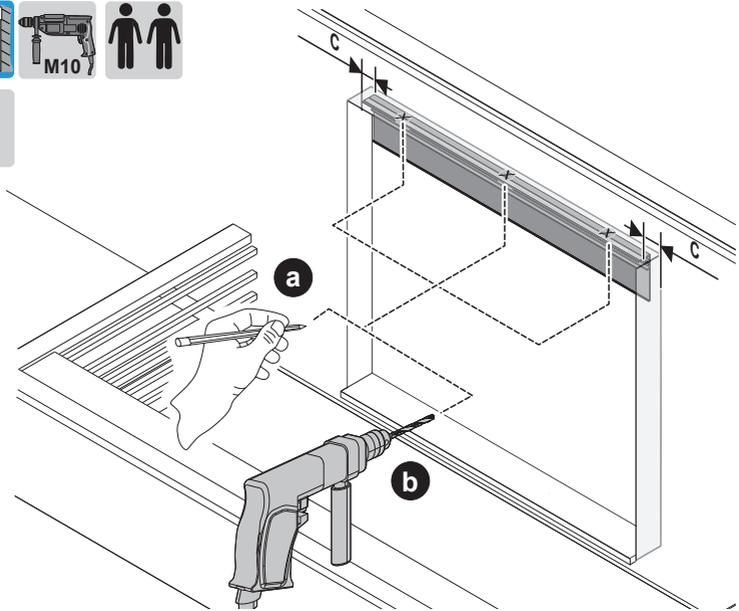
4



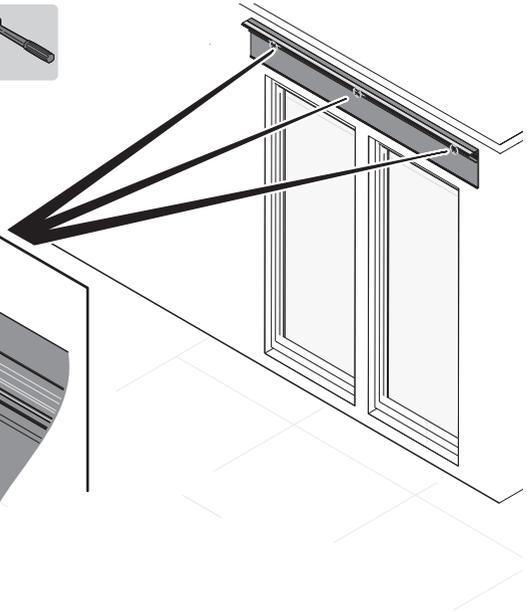
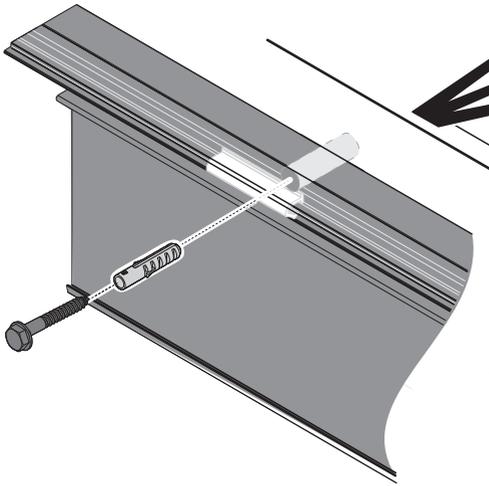
4



C = 18 mm

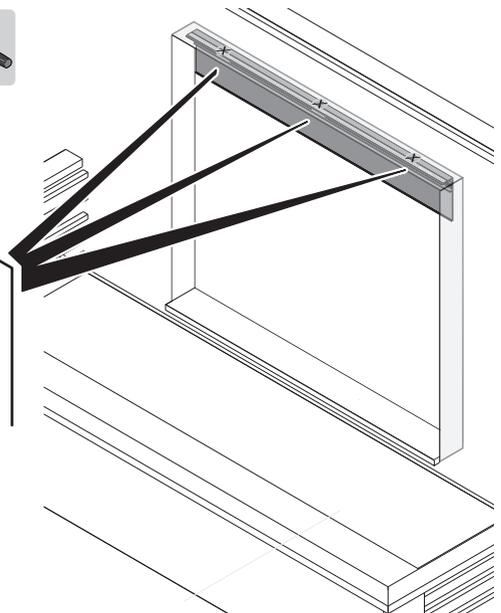
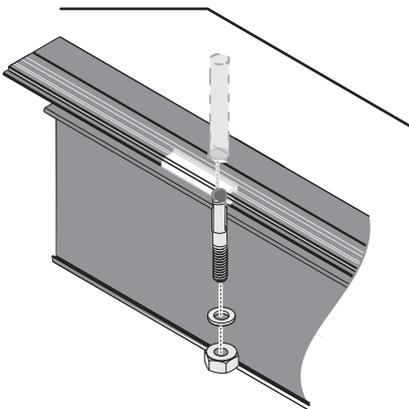


5

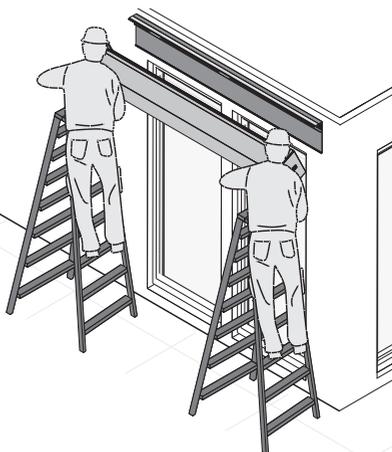


The installation type and materials can vary by base surface. Always refer to and observe the supplied data sheet on base surfaces and fasteners.

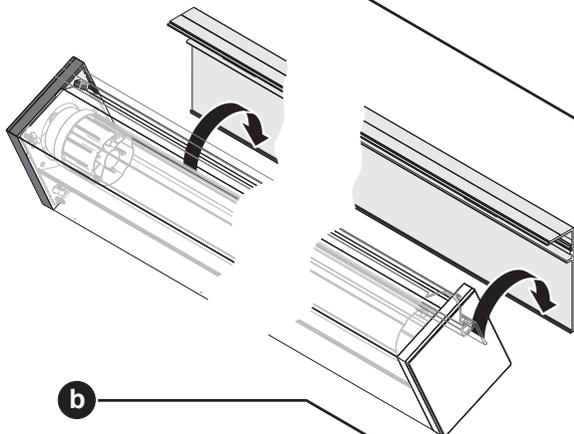
5



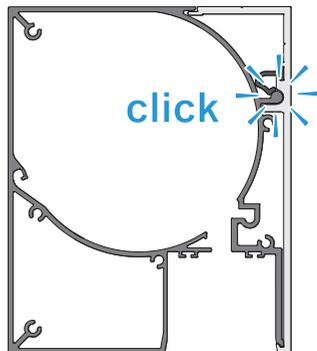
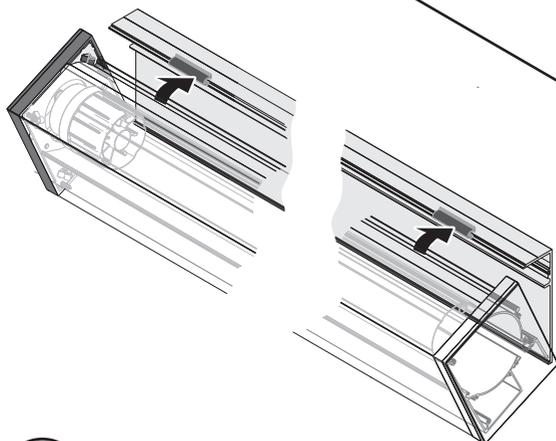
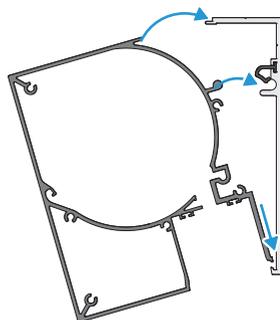
6



a

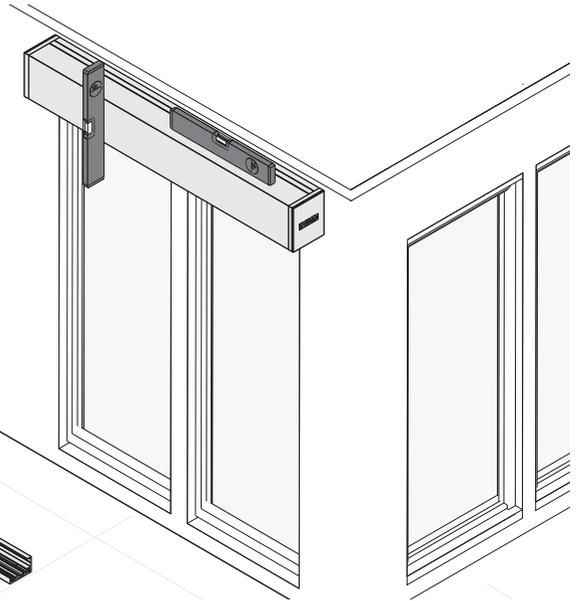
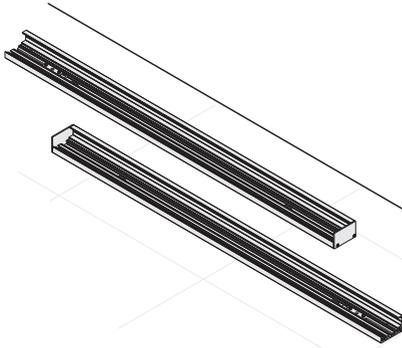


b

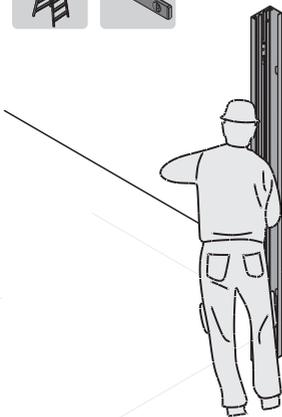


Make sure that the box has engaged audibly in all clips and is evenly in contact with the mounting bracket everywhere!

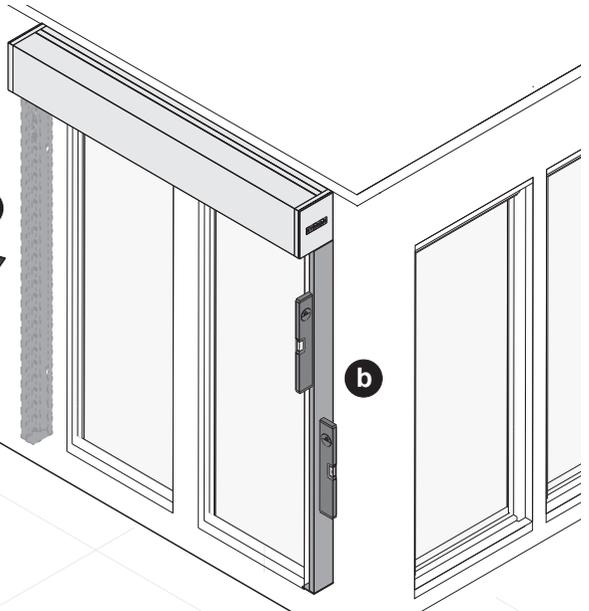
7



8

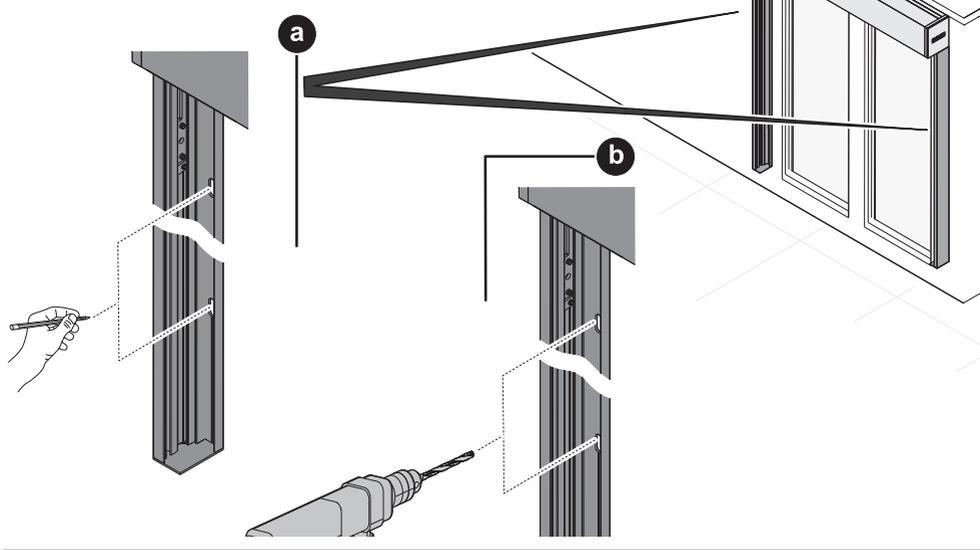


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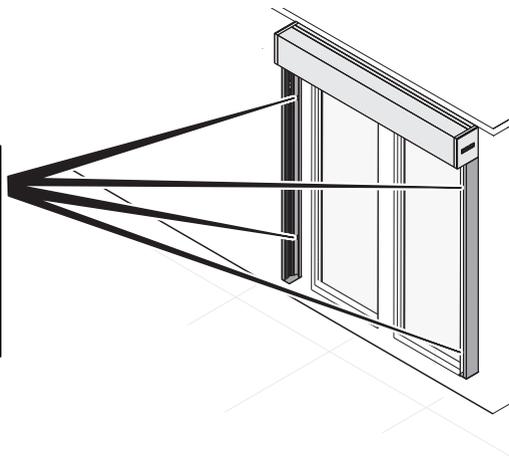
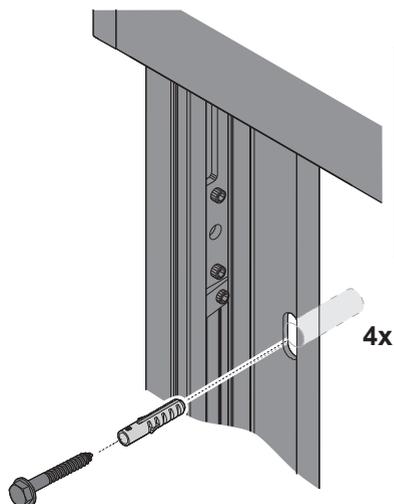


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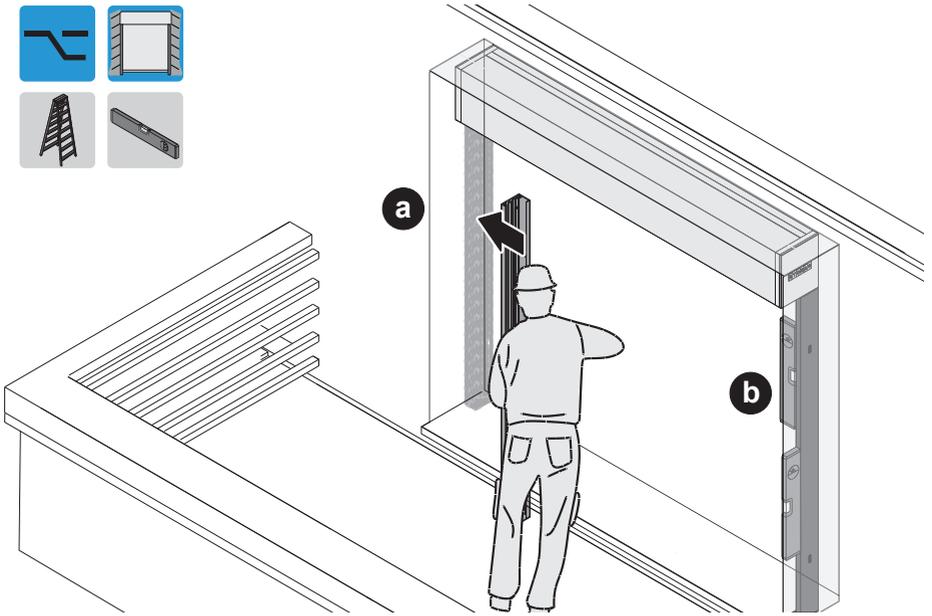


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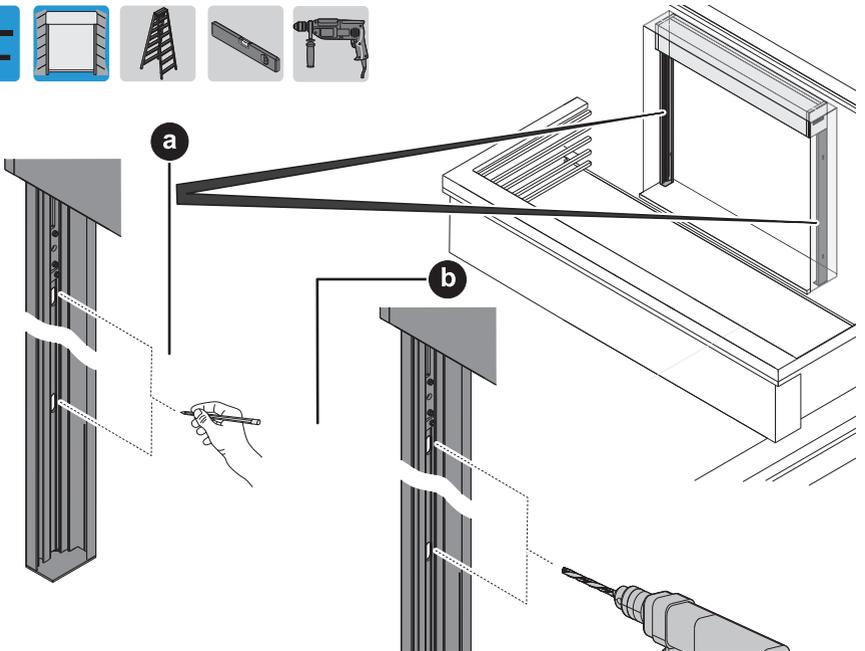


The installation type and materials can vary by base surface. Always refer to and observe the supplied data sheet on base surfaces and fasteners.

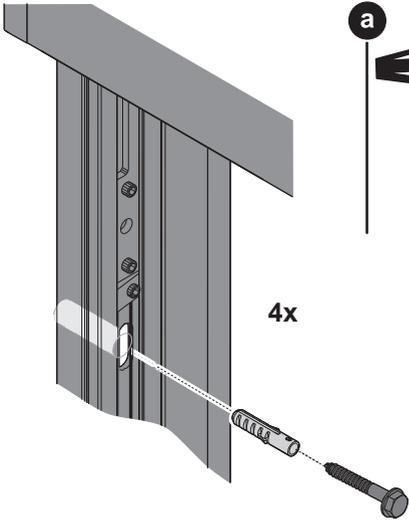
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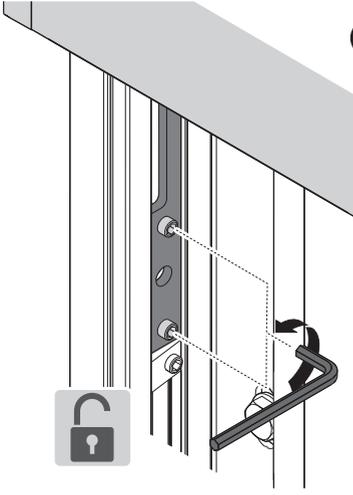
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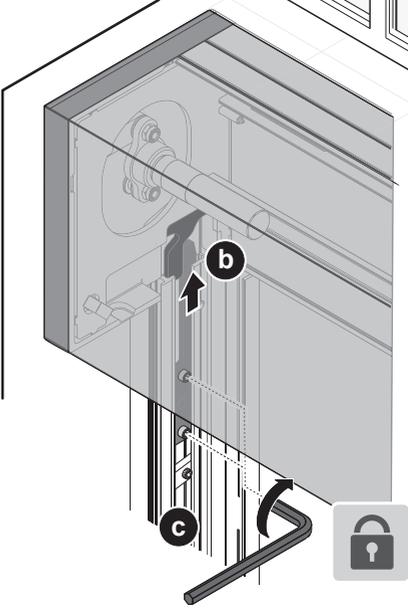
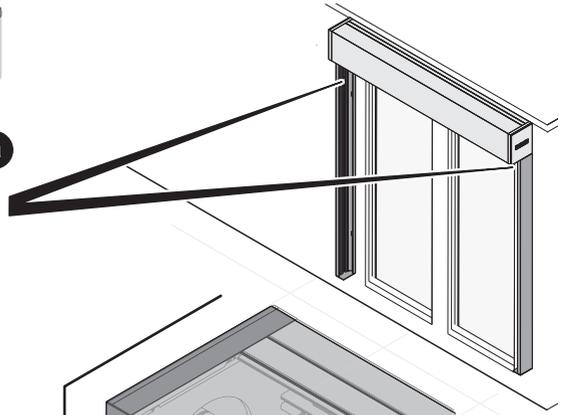
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The installation type and materials can vary by base surface. Always refer to and observe the supplied data sheet on base surfaces and fasteners.



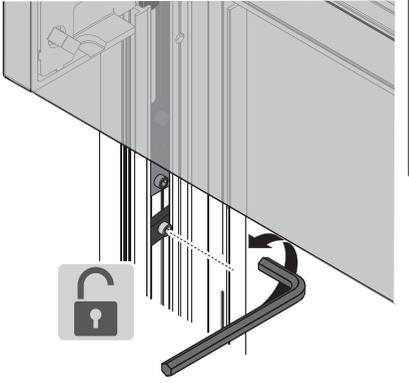
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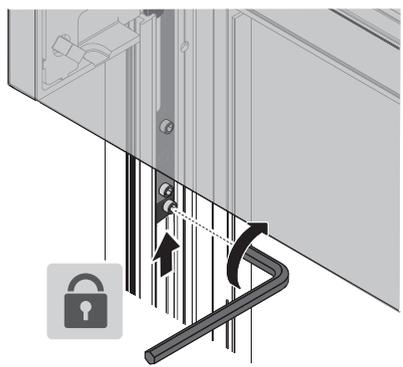
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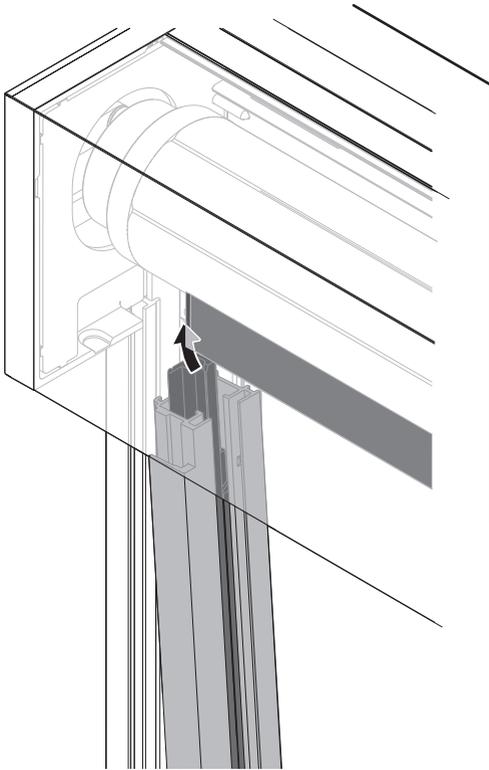
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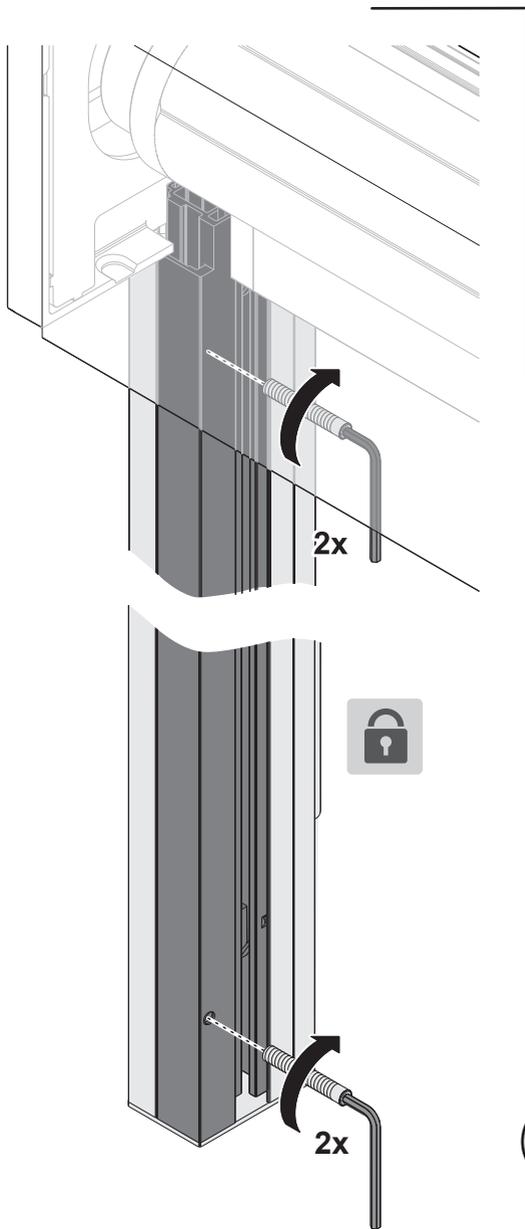
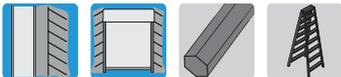
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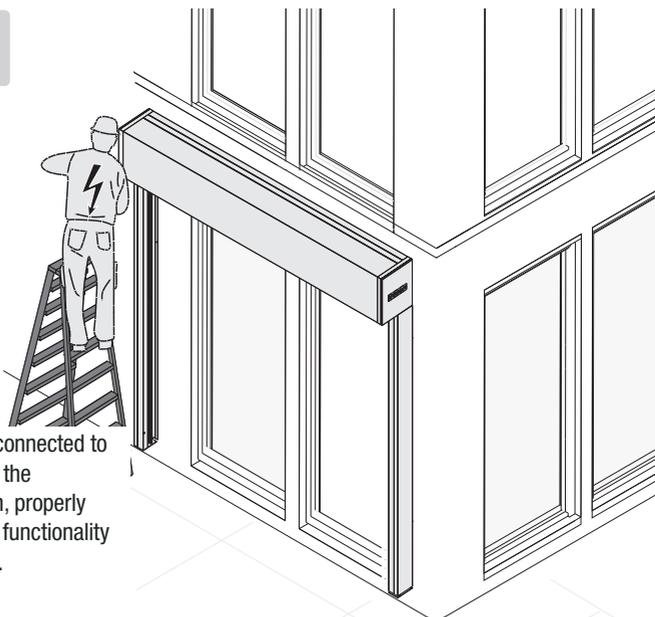






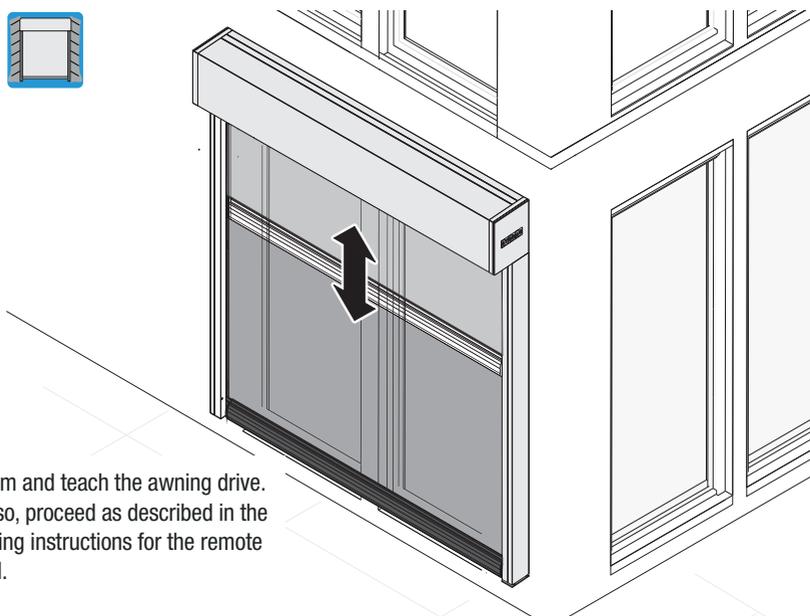
Press rails on firmly while establishing the screwed connections!

14



Have the tubular motor connected to the power supply as per the electrical wiring diagram, properly grounded and tested for functionality by a licensed electrician.

15



Program and teach the awning drive. To do so, proceed as described in the operating instructions for the remote control.

**a****b****c**