

 Installation instructions for
SHUTTERS sliding panel system

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1. INTRODUCTION

This document contains:

- Basic information on delivery acceptance and product storage,
- General safety requirements for work and installation,
- Detailed product installation instructions.

The instructions for use and maintenance are provided in a separate manual.



The methods of roller shutter installation shown in the manual are examples.

2. PREPARATION FOR ASSEMBLY

2.1. Acceptance of delivery

Structural elements are packed at the production plant in cardboard packaging to protect the surface of the product from damage during transport and storage on the construction site.

Accessories: connectors, trolleys and plastic system components are packed in cardboard boxes. The packaging should contain information about the assortment and quantity of items in each package, enabling quick identification of products and quantity control.

Due to the dimensions and weight of the structural elements, unloading should be carried out by at least two persons.

Before starting installation, you must:

- check that the load is correctly secured on the means of transport before unloading,
- Check the completeness of the delivery and the required documentation.
- draw up a report on the quality and quantity of the delivery and report any discrepancies to the driver, supplier or site manager,
- secure deliveries and store them properly, then transport them to the site designated for assembly,
- assess the correctness of the construction site preparation for installation works.

2.2. Storage of structures on the construction site

If the product is not installed immediately after delivery, the following storage rules must be observed on the construction site:

- During storage, transport and transfer to the final assembly site, the product should be kept in its original factory cardboard packaging.
- Transport/storage products should be positioned in accordance with the arrows on the packaging.
- Structural elements and other delivery items should be stored in their original packaging, and the adhesive film protecting the aluminium profiles should only be removed after completion of the assembly.
- avoid stacking, protect packaging from crushing,
- Do not place other objects on top of the packaging.
- Aluminium profiles, seals and other installation materials should be stored in rooms with a positive temperature, between 5°C and 30°C, in dry and ventilated rooms.
- Do not expose stored products to direct exposure to heaters or other heat emitters, or to high sunlight exposure.
- observe health and safety regulations when unloading and moving delivery items, in particular those concerning the permissible load per person (25 kg/person).

3. GENERAL SAFETY REQUIREMENTS FOR INSTALLATION

3.1. Inspection of the installation site

Before starting the installation, you must:

- assess the possibility of installing the Shutters system on a pergola structure or substructure with parameters ensuring stability and safety; the use of a method of installation other than that suggested by ALUPROF S.A. is permissible provided that safety and construction requirements are met, in which case the responsibility and risk shall be borne by the Investor or Contractor,
- If dimensional non-conformities are found, assembly work must be suspended until the deficiencies are rectified.
- Remove all objects, materials and obstacles from the installation site that could hinder the manoeuvring of product components or pose a hazard to the installation team.
- carry out a detailed inspection of the installation site for underground installations (in particular electrical, water and sewage or gas installations) to prevent accidental damage during anchoring of the structure,
- Select anchoring elements depending on the substrate material – it is recommended to consult a qualified designer in this regard.

3.2. Safety requirements for installation at height

Due to the dimensions of the product structure, it may be necessary to perform work under special conditions. Work performed at a height of more than 1.0 m (and in particular more than 2.0 m) above ground or floor level is classified as work at height. It poses a risk of accidents, in particular falls, and therefore requires the use of certified scaffolding and personal protective equipment.

The supplier is obliged to develop a health and safety plan (BIOZ) for the duration of the installation, ensure direct supervision of the work and conduct on-the-job training for employees. In addition, the supplier must provide appropriate fall protection equipment or enforce its possession by the installation manager. It is recommended that the installation site be clearly cordoned off and marked for the entire duration of the work.

Fitters must have valid medical certificates allowing them to work at heights. The installation site should be prepared in such a way as to limit the need for workers to lean over the scaffolding barriers. Work at heights above 2 m requiring the use of personal protective equipment must be carried out by at least two people in order to ensure mutual safety.

3.3. Safety when working with power tools

When installing the product, use only power tools that are in good working order and have valid certificates.

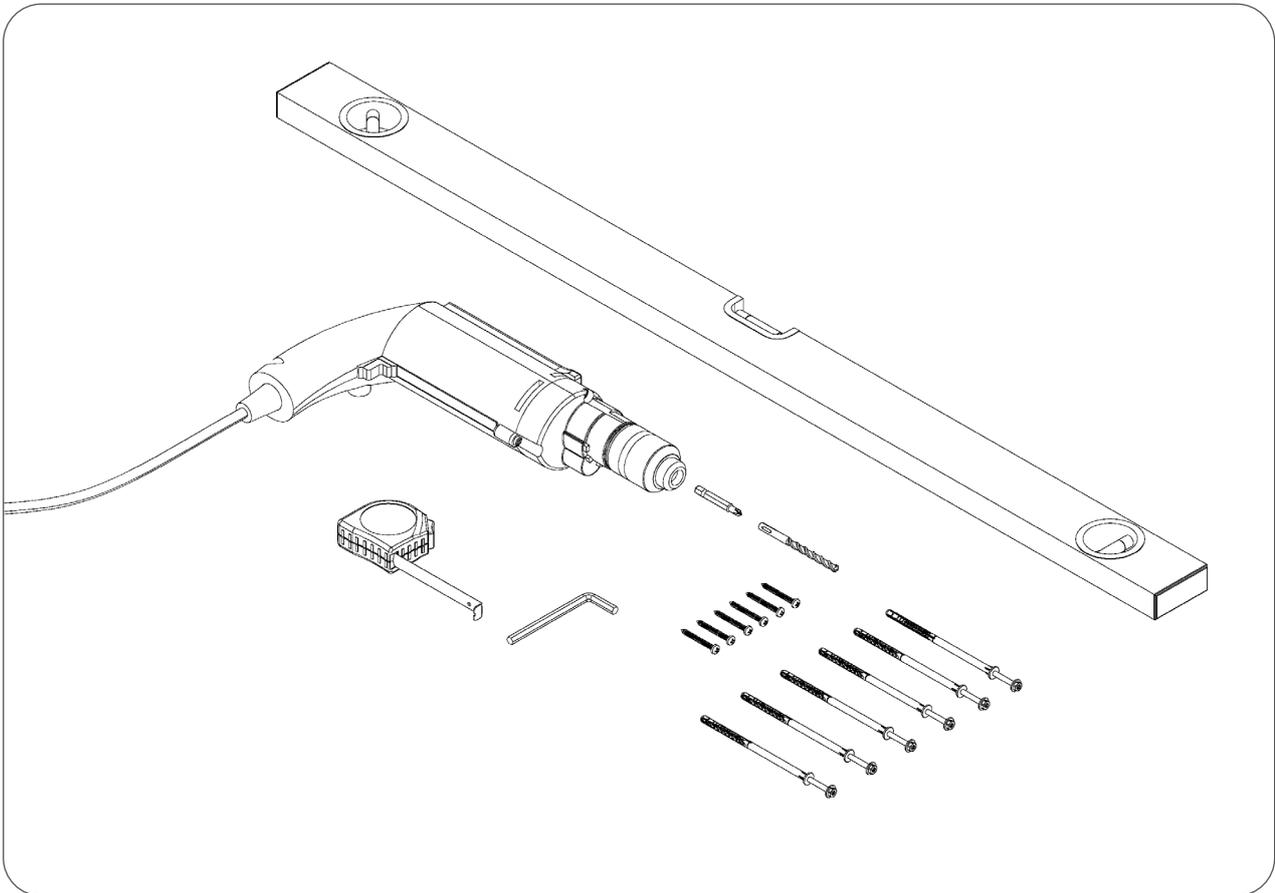
The following rules must be observed:

- check the condition of the tool housing, power cables and plugs before starting work; it is prohibited to use tools with visible damage to the insulation,
- use cordless tools or tools powered by residual current devices (RCDs) due to the increased risk of electric shock in the event of a breakdown,
- It is prohibited to use mains-powered power tools during precipitation and in high humidity conditions, unless the tool has an appropriate ingress protection (IP) rating that allows for such conditions.
- run power cables in such a way as to prevent them from being accidentally cut, tripped over or damaged by moving parts of the scaffolding,
- When drilling or cutting aluminium elements, always wear safety goggles to prevent damage to your eyesight from metal filings.
- If the work generates noise exceeding 85 dB, hearing protection must be used.

3.4. General safety requirements

- For safety reasons, a minimum of 2 persons are required to assemble the Shutters system frame. Working in a smaller team may result in loss of stability of structural elements and accidents.
- It is prohibited to carry out assembly work (especially at height and with large components) during strong winds, precipitation or icy conditions. Wind can cause uncontrolled movement of profiles, posing a direct threat to life and health.
- The product must be protected against construction dirt (mortar, assembly foam, silicone).
- After drilling, immediately remove all metal filings from the surface of the structure. Leaving filings (e.g. from steel drill bits) will lead to contact corrosion and permanent damage to the paint coating.
- If it is necessary to use chemicals (adhesives, sealants, chemical anchors), strictly follow the safety data sheets and manufacturers' recommendations regarding operating temperatures and respiratory and skin protection measures.
- Improper installation, use of incompatible anchoring elements or unauthorised modifications to the structure may lead to situations that are hazardous to the user, for which the Manufacturer shall not be held liable.

4. INSTALLATION TOOLS

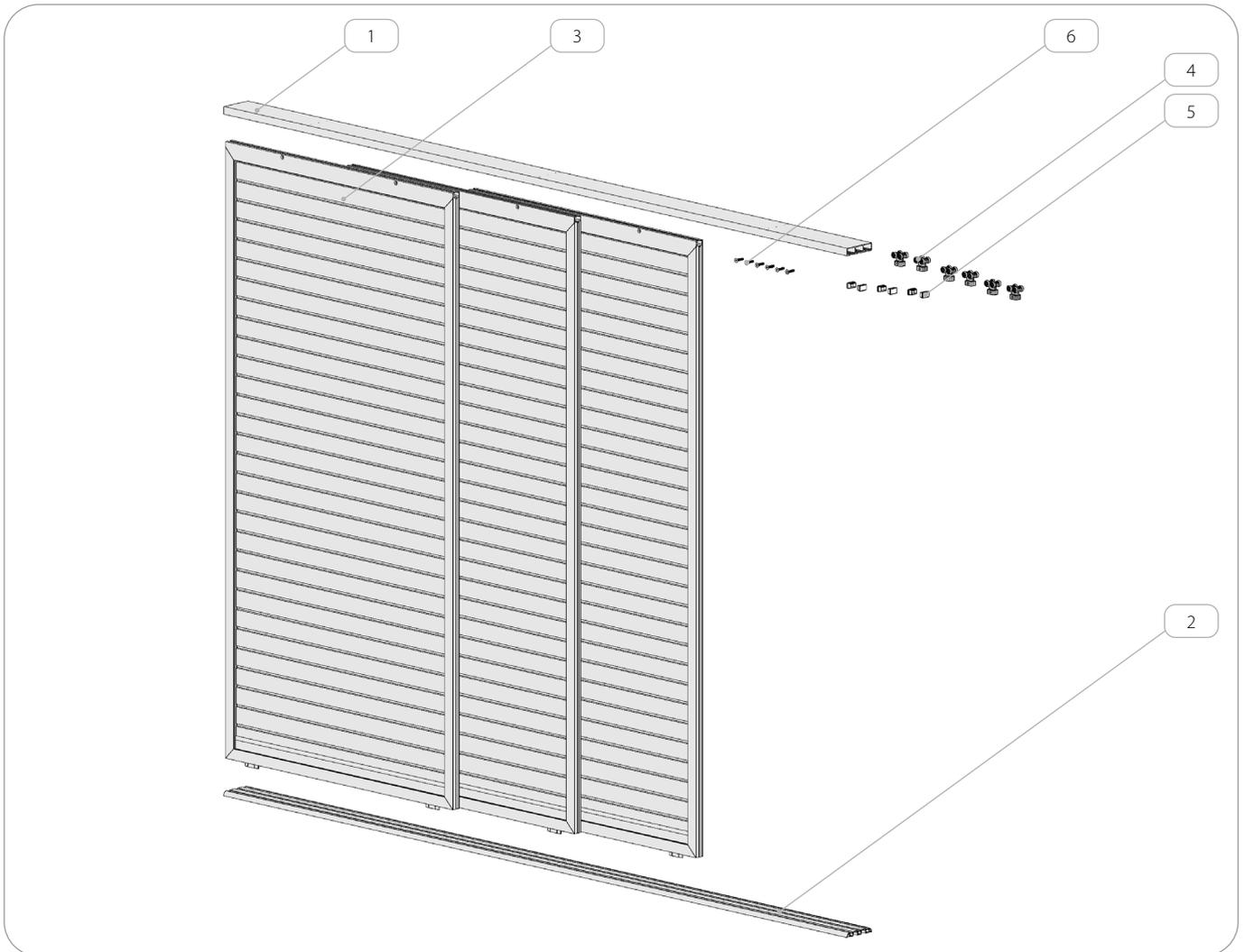


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5. PRE-ASSEMBLY WORK

5.1. List of components

 Before installation, it is necessary to unpack the item and check its quantity and quality.



	Name of the component
1.	Upper guide
2.	Bottom guide
3.	Sliding panel
4.	Trolley
5.	Plug
6.	Screw M8x40

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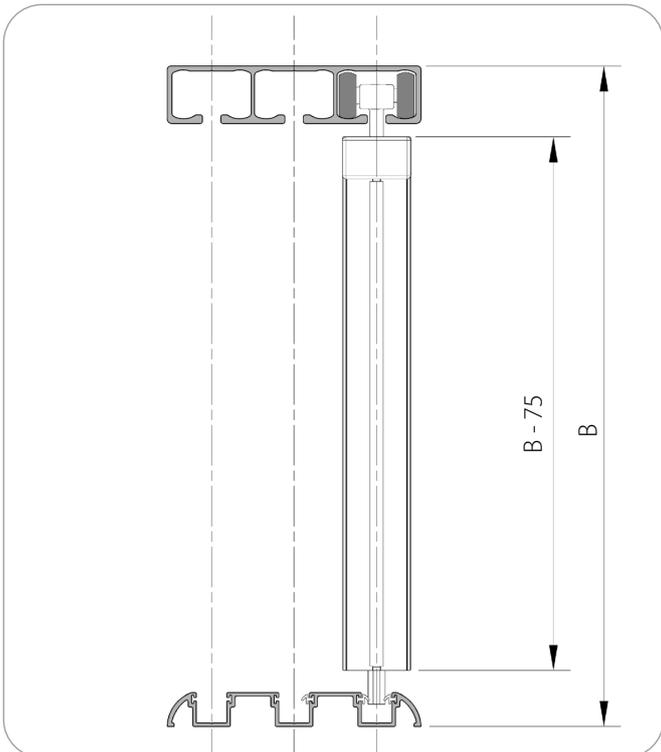
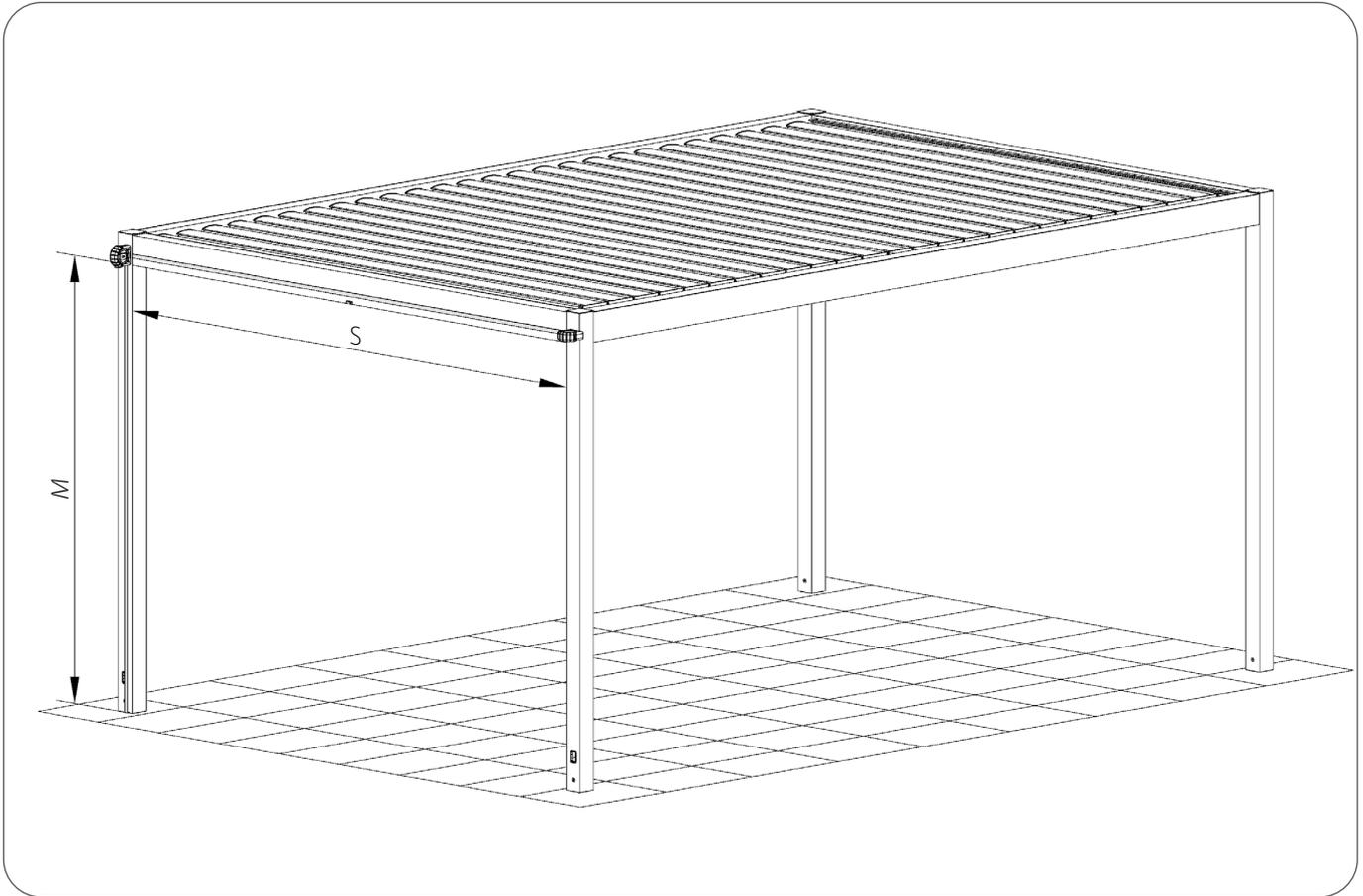
5.2. Dimensioning

Where:

A - WIDTH OF THE PRODUCT [mm]
B - HEIGHT OF THE PRODUCT [mm]

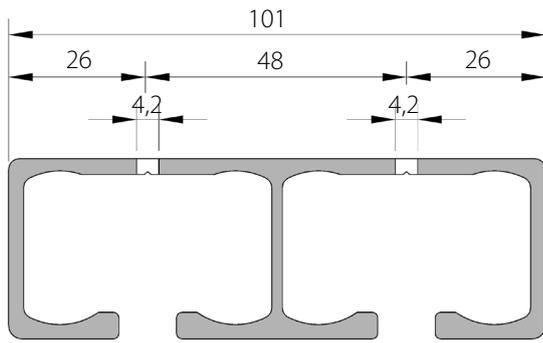
S - RECESS WIDTH [mm]
M - RECESS HEIGHT [mm]

 Check that the dimensions of the installation site are correct.

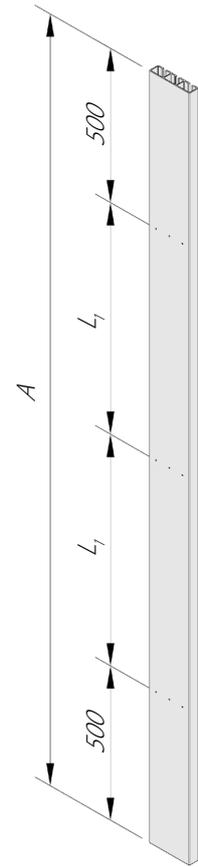
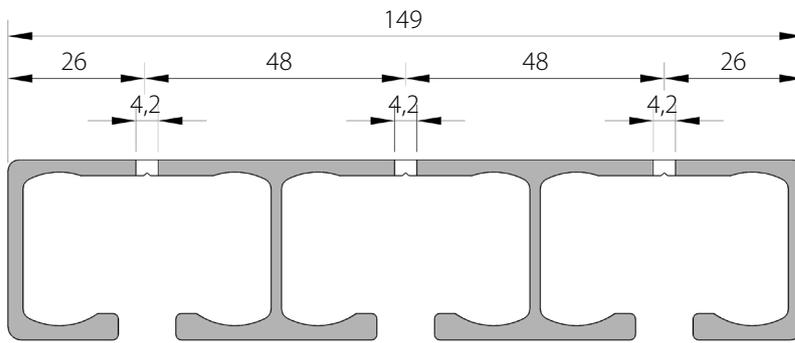


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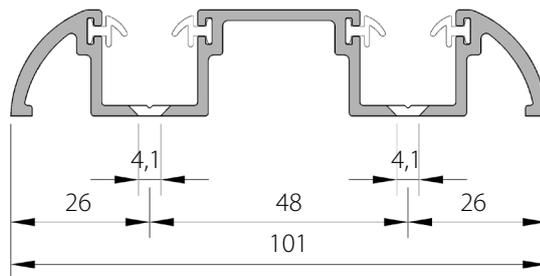
Double-track top guide



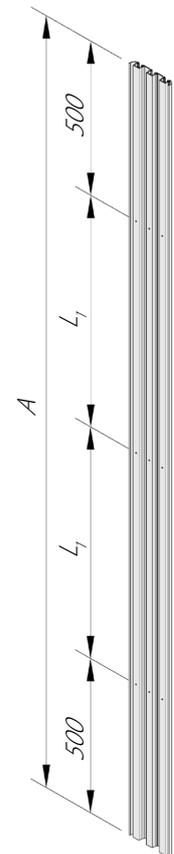
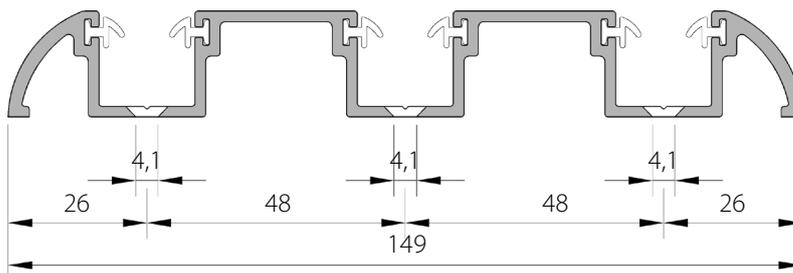
Three-track top guide



Double-track bottom guide

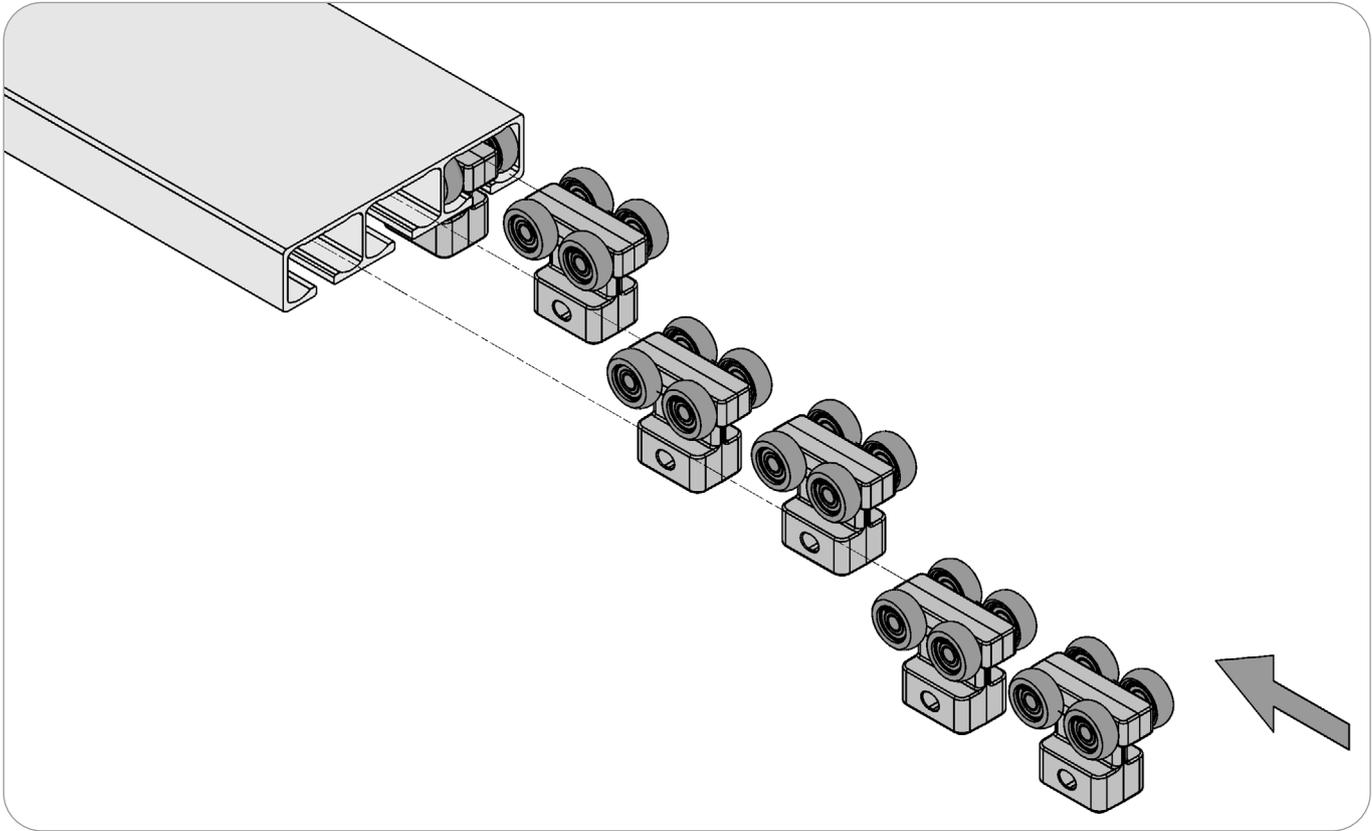


Three-track bottom guide

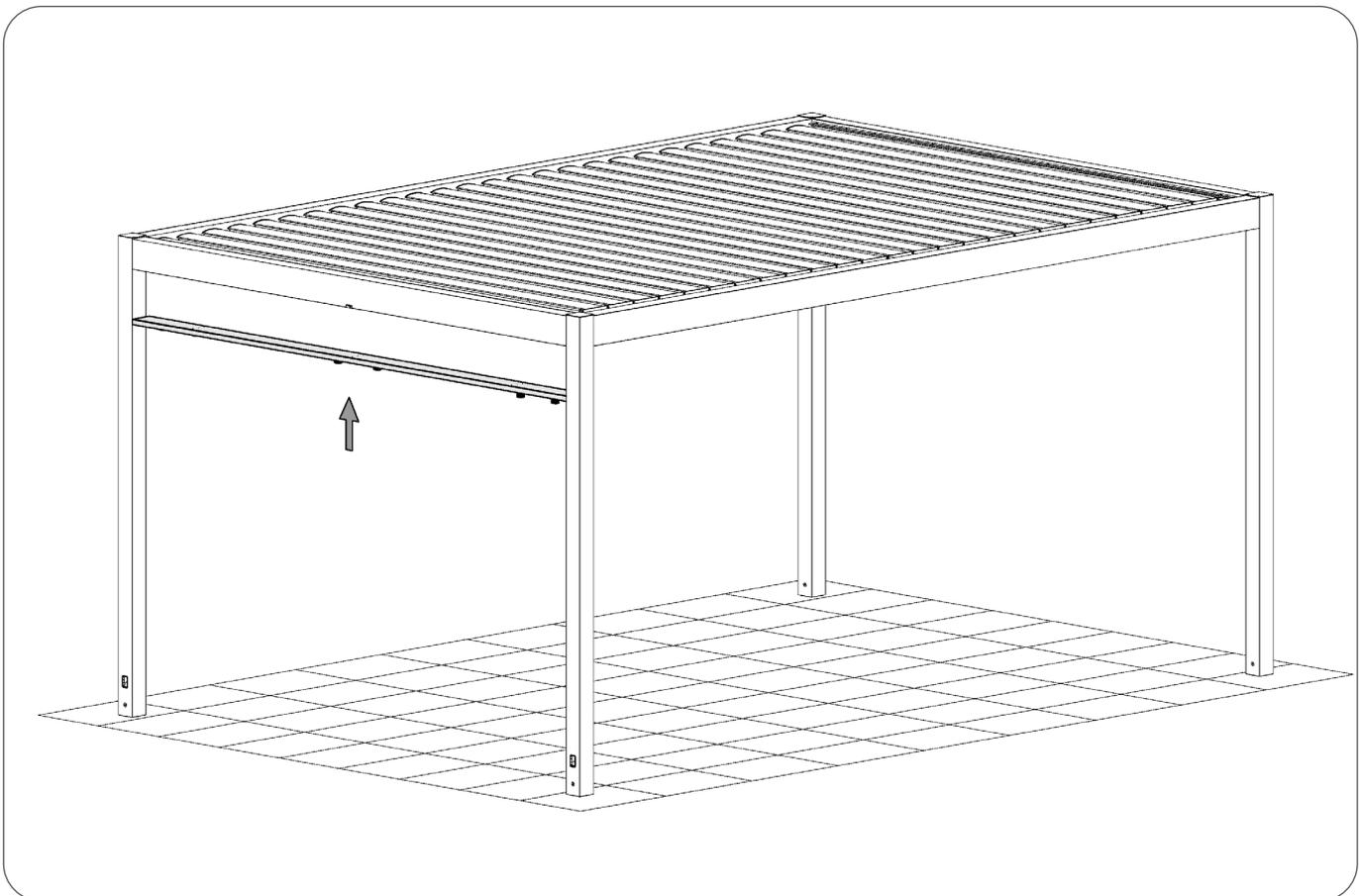


6. INSTALLATION DIAGRAM

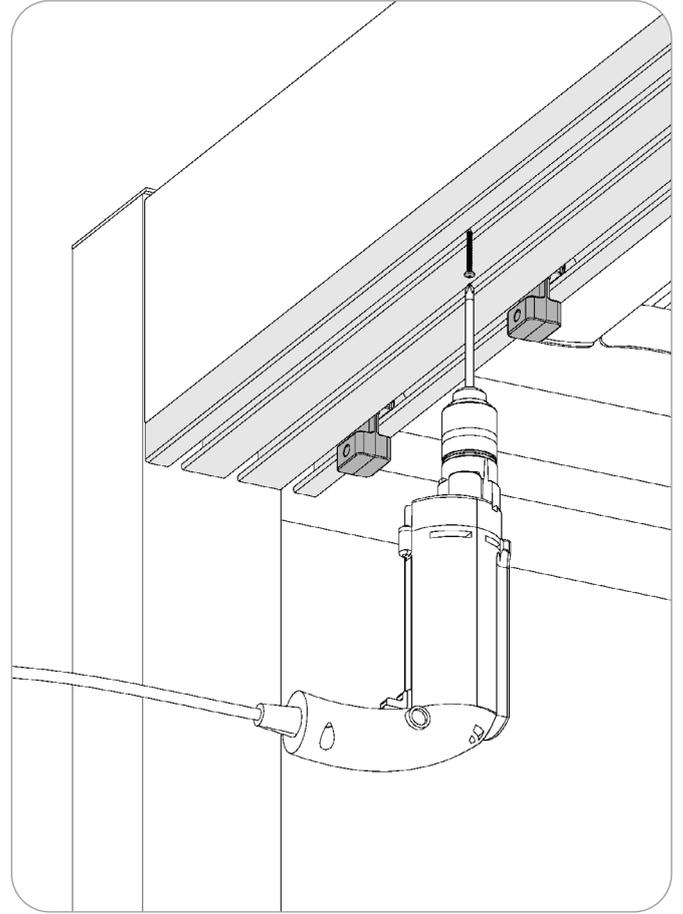
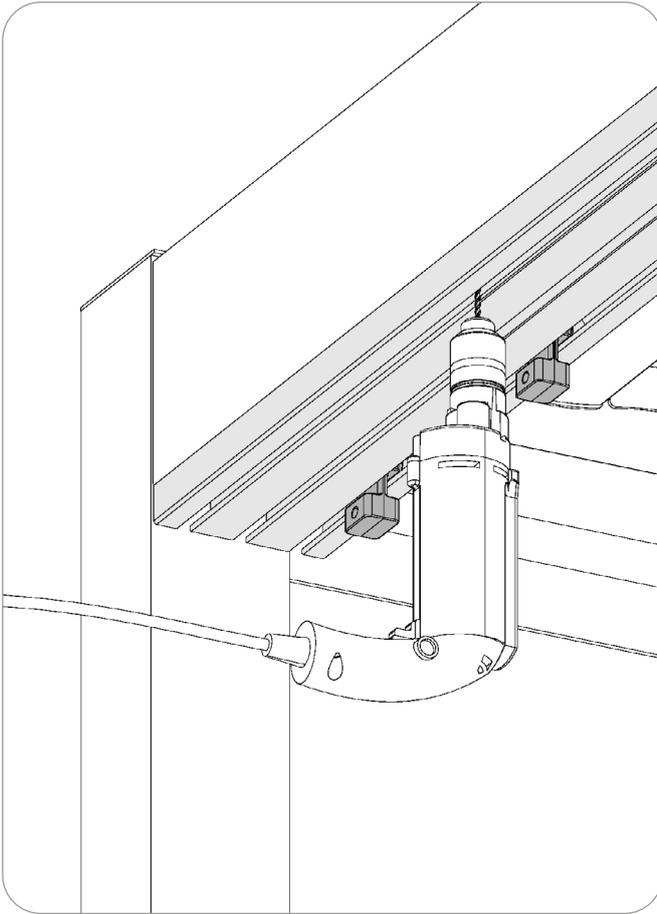
a) Insert the carriages into the upper guide in such a way that they do not cover the mounting holes. Place the carriages in the appropriate guide tracks. Secure the carriages against movement until the guide is screwed in place.



b) Screw on the top guide.

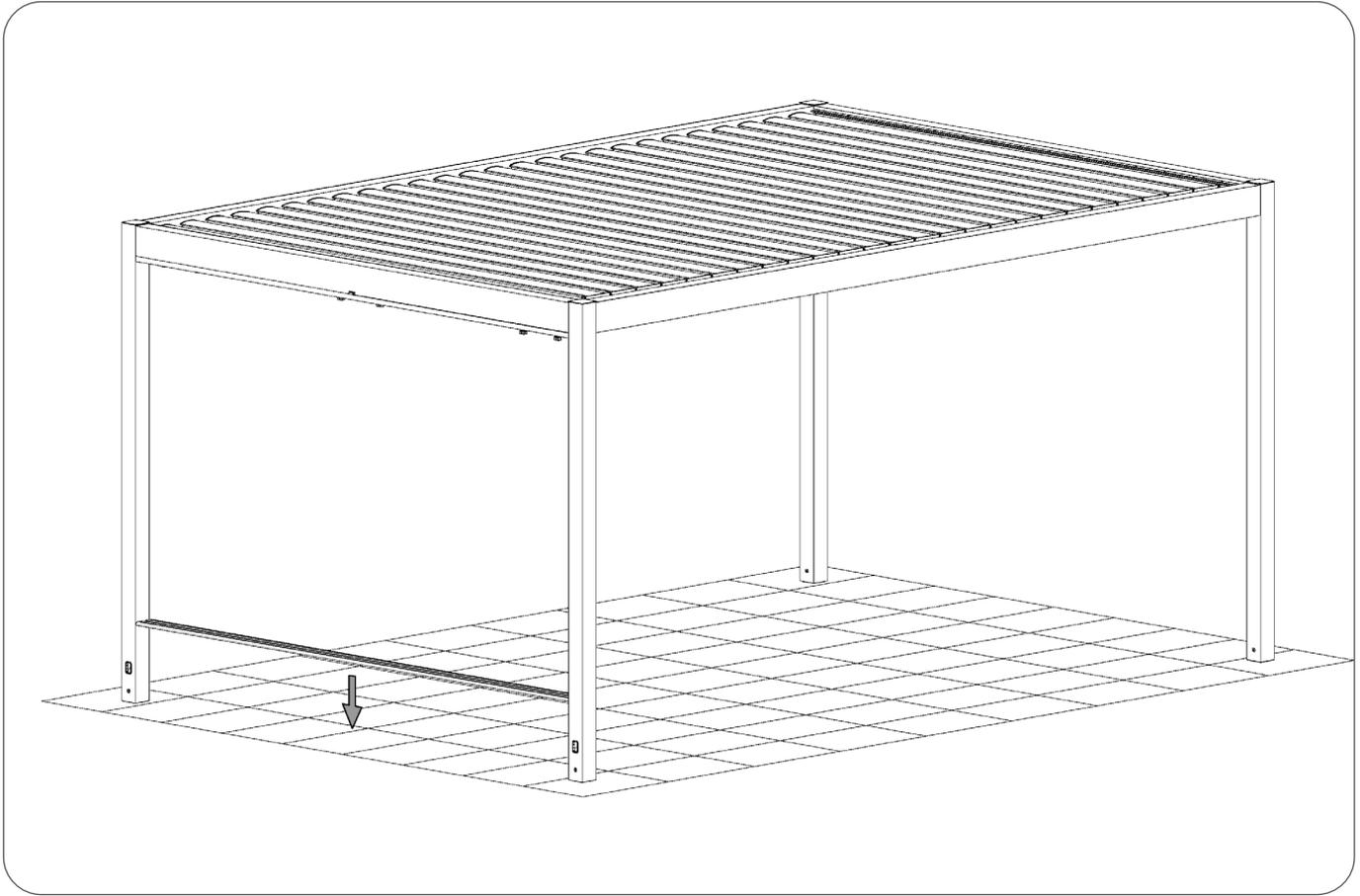


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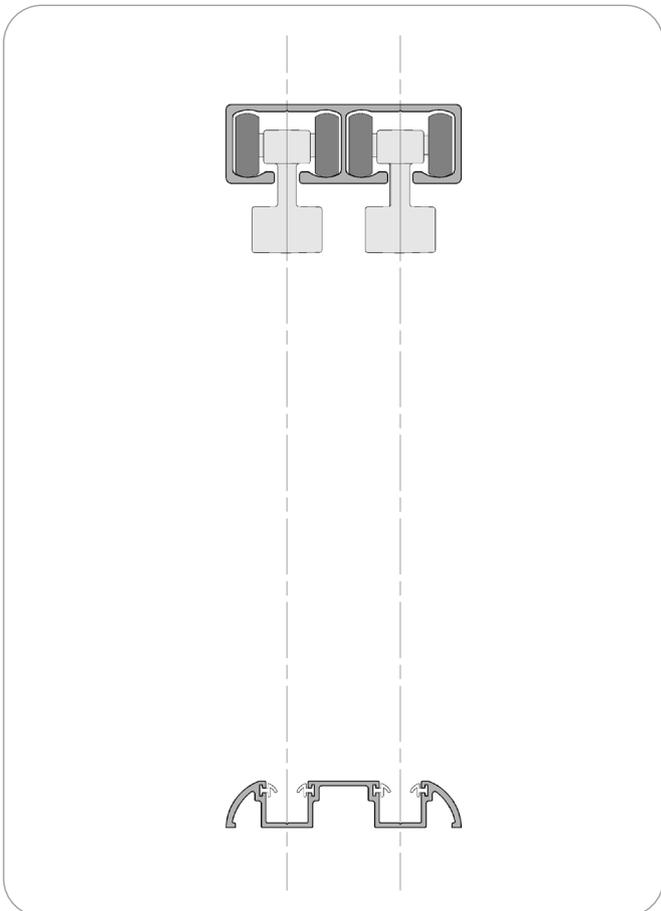


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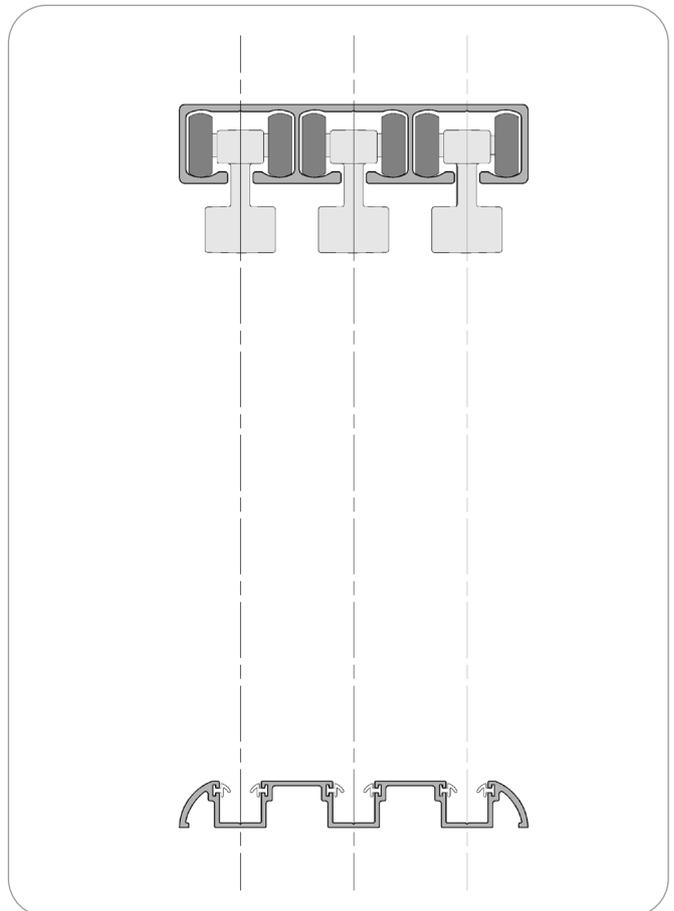
c) Check that the ground is level. Place the bottom guide on a stable surface, exactly in line with the top guide. Screw the bottom guide in place.



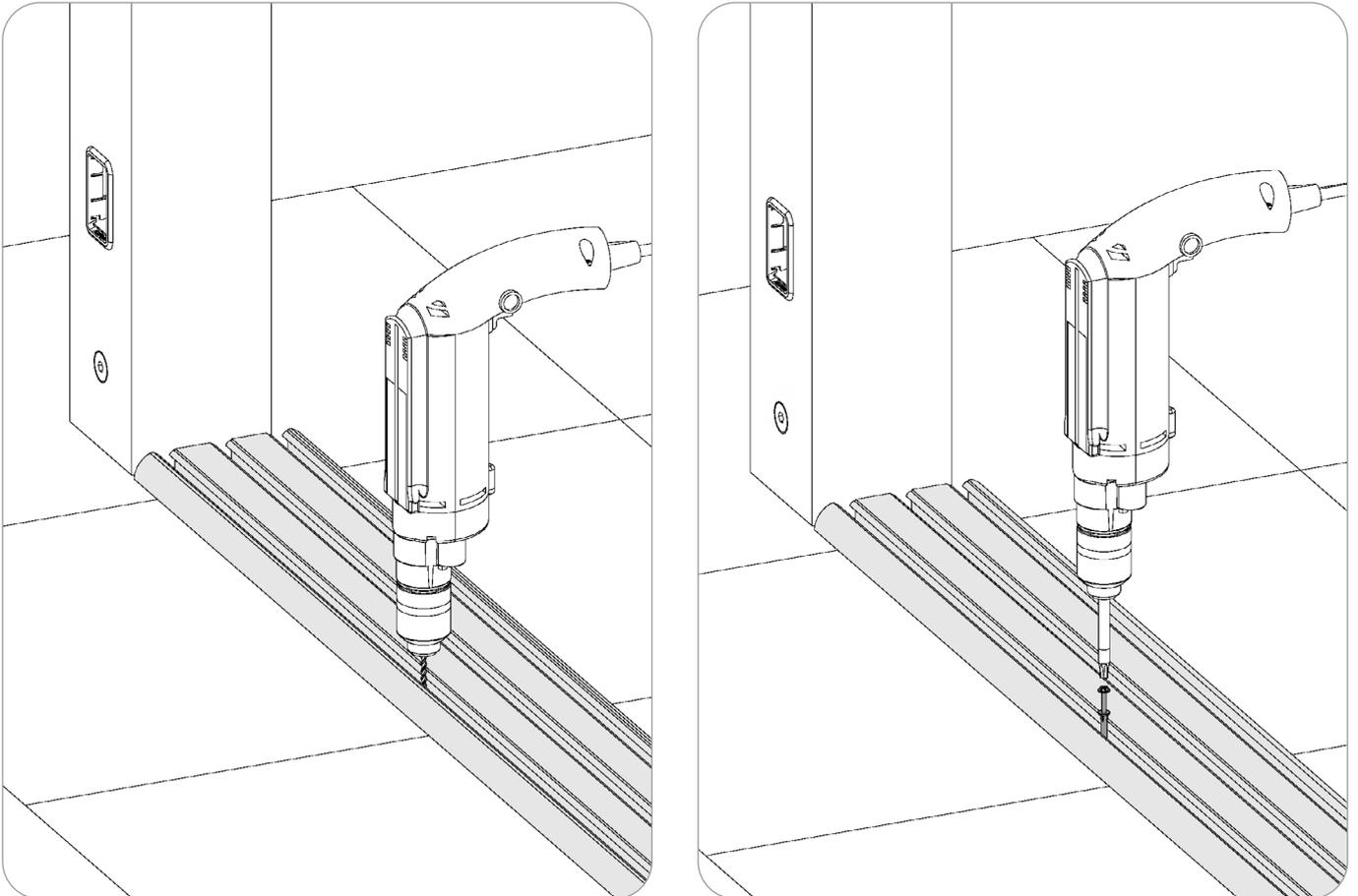
Two-track variant



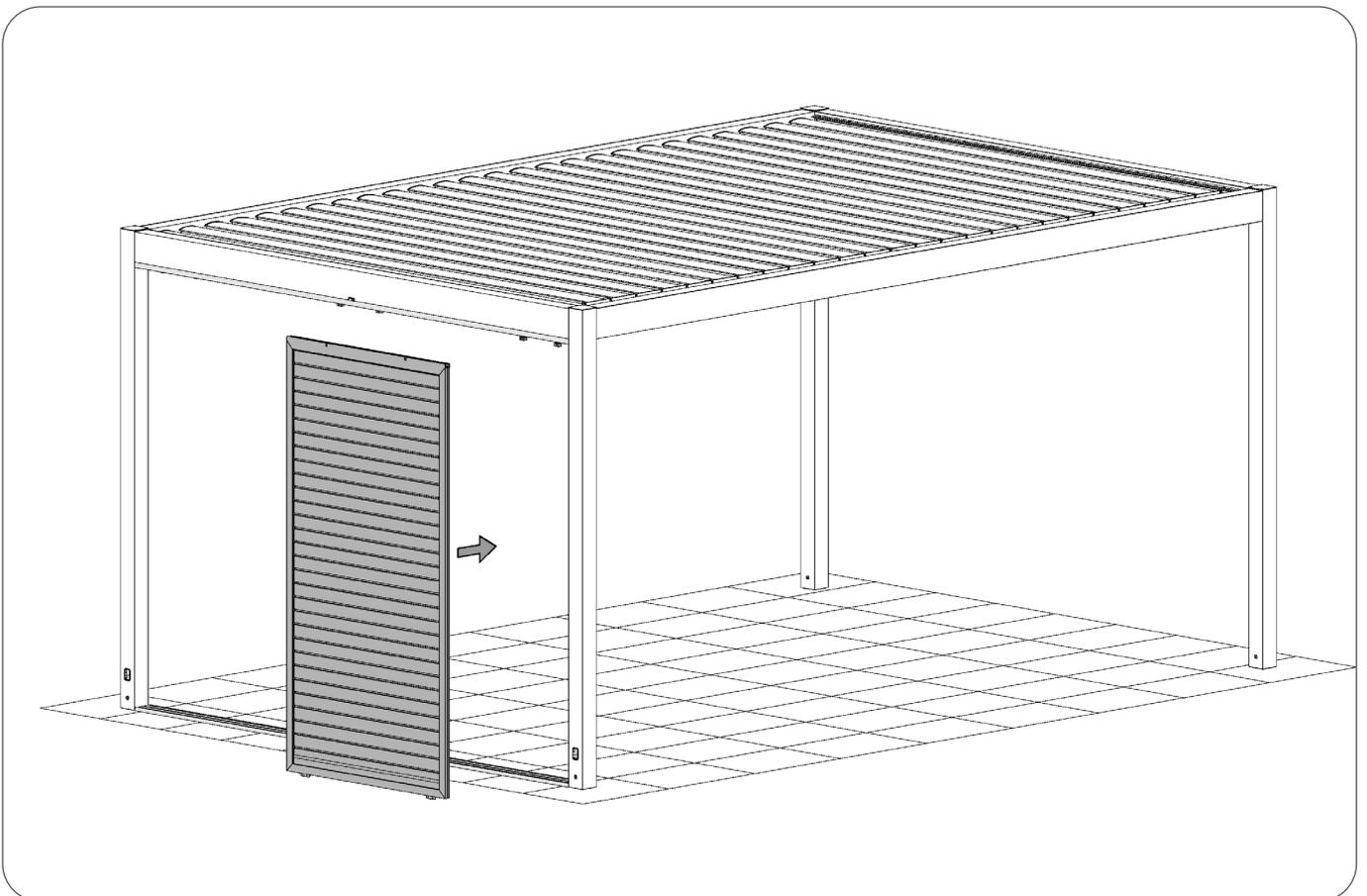
Three-track variant



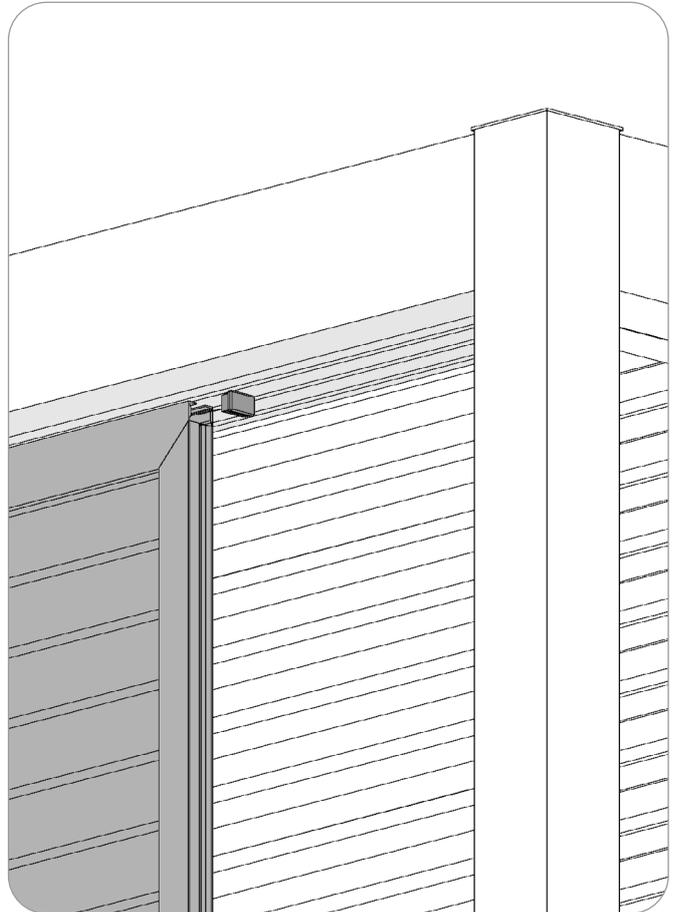
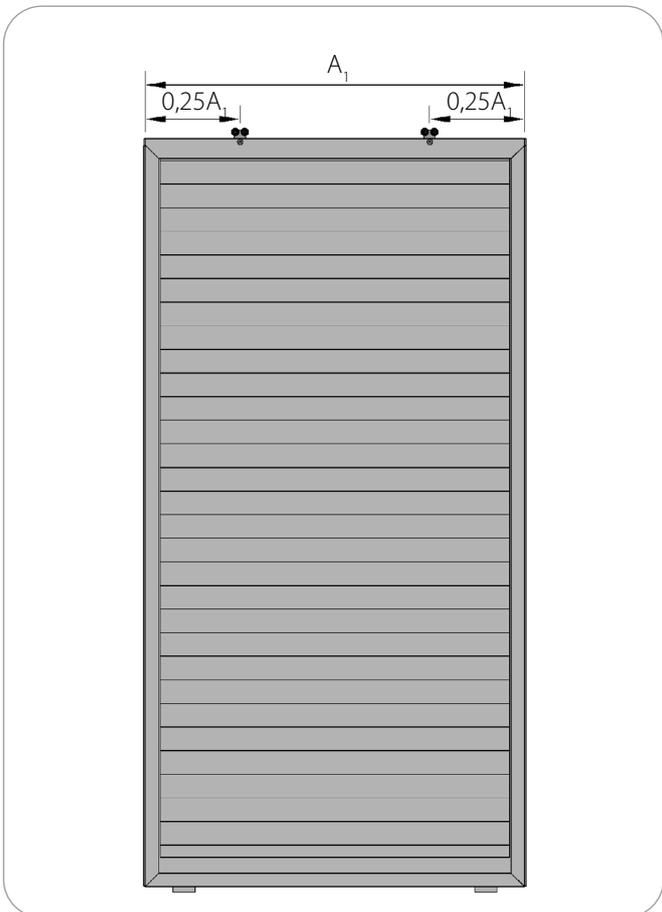
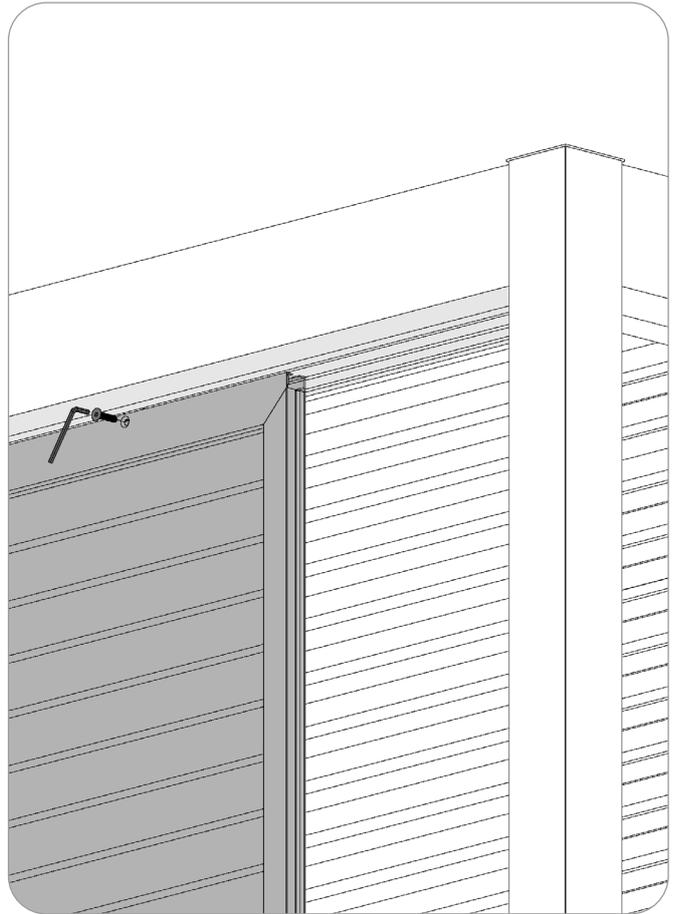
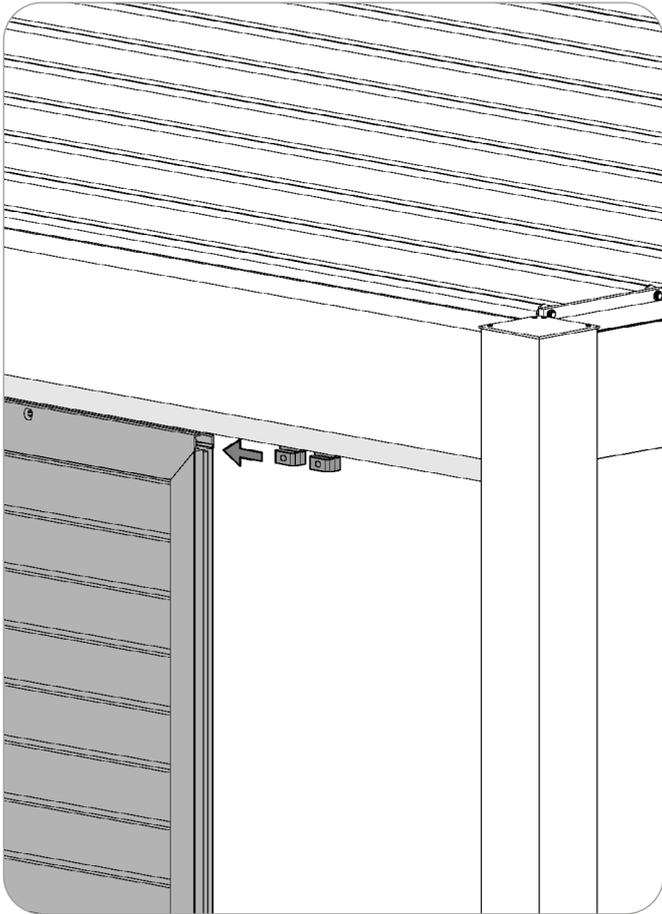
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d) Place the frame vertically in the appropriate track and slide the carriages into the upper profile. Align the hole in the carriage body with the hole in the frame and fasten with M8x40 screws. Repeat for the second trolley. Place the end caps on the ends of the upper frame profiles. Then hang the remaining SHUTTERS frames in the same way.

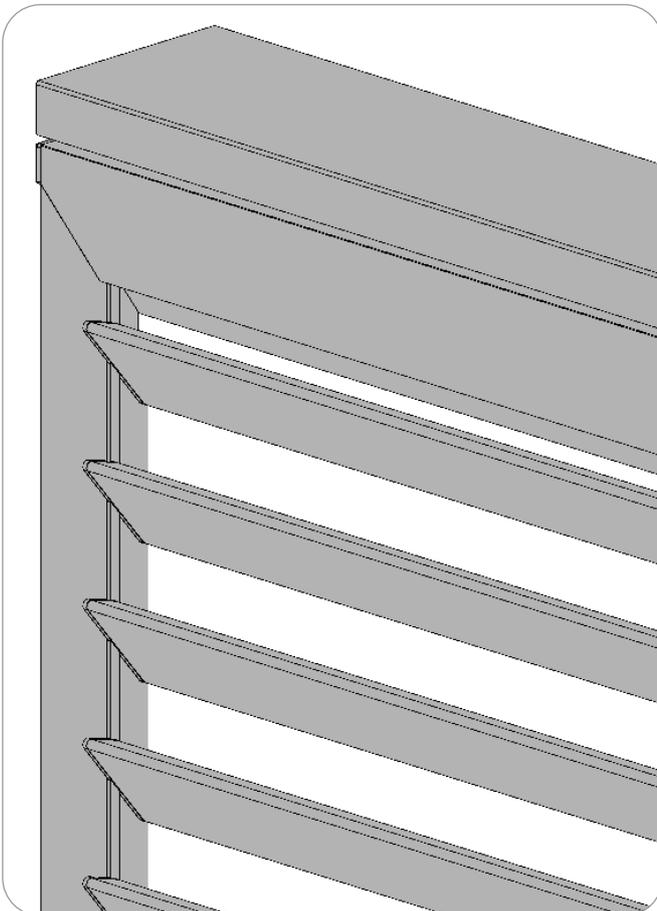
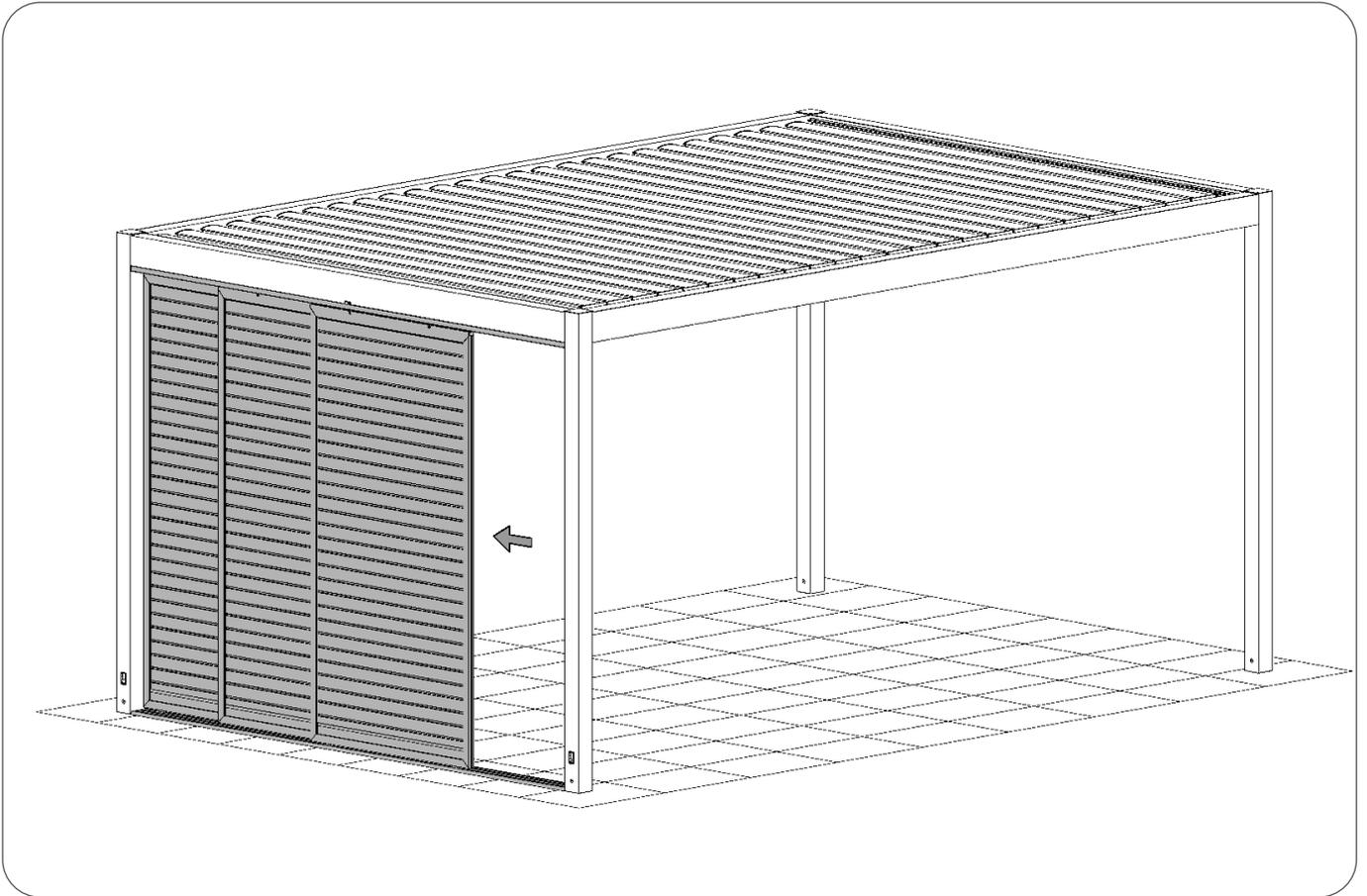


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e) Perform a test movement of the frames along the entire guide. Check the possibility of changing the angle of the slats in the frame.



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ORIGINAL INSTRUCTIONS
SHUTTERS IN_m_pl

SHUTTERS_m

We reserve the right to make technical changes.

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