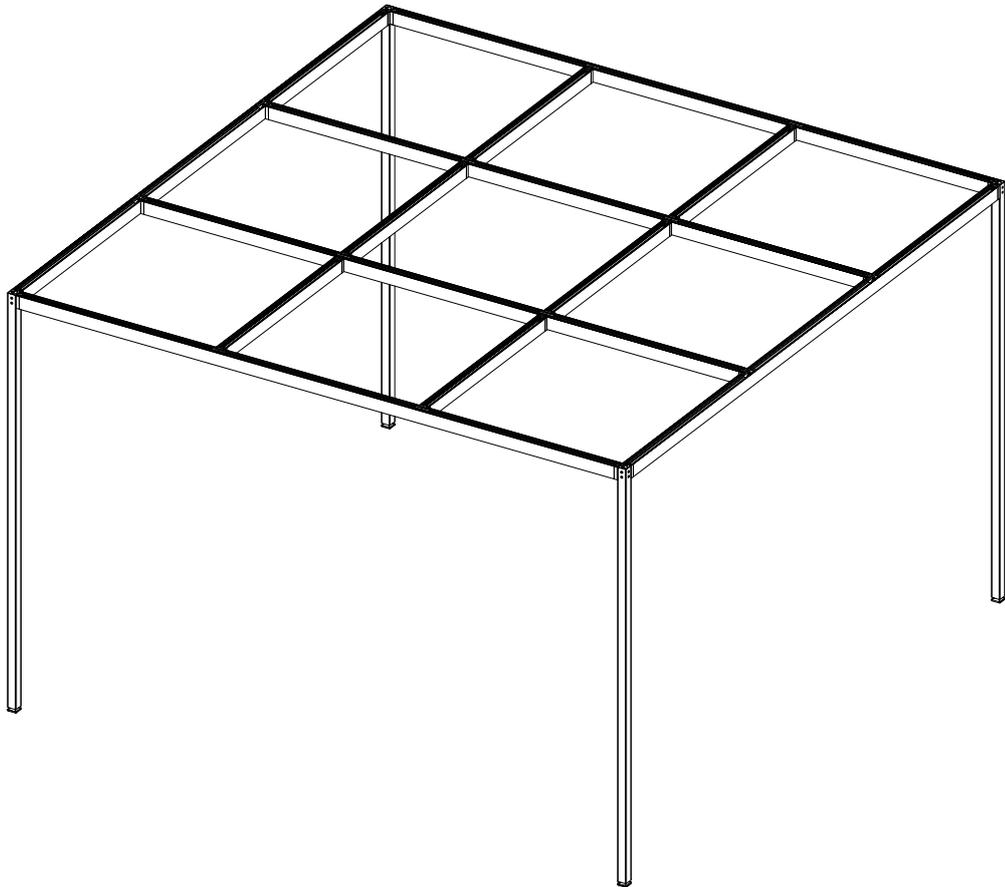


Spatio

Instructions for assembly and use



visplay

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1 General

This manual is provided to ensure the safe and effective use of the "Spatio" product.

This manual is a component of the product and must be kept on hand in the vicinity of the product at all times.

All personnel who deal with the product must have read this manual. Compliance with all the safety instructions and handling instructions specified in this manual is a prerequisite for safe work.

Installation may only be carried out by qualified specialists or trained personnel who are familiar with the installation of modular, electrified structural systems and have been instructed in the relevant safety and installation regulations.

Once all installation work has been completed, the entire structure and all connections must be carefully checked.

The illustrations in this manual are provided for the purposes of general understanding and may deviate from the actual version.

All dimension information in this manual is specified in mm.

Quality assurance

All processes in our company are subject to a comprehensive management system, which conforms to the ISO 9001 quality standard and the ISO 14001 environmental standard.

The Zertifizierungs- und Umweltgutachter GmbH (BSI) company audits this management system regularly and documents compliance with the standard via a certificate.

Copyright

This manual is protected by copyright. Its use is permissible as part of the use of the product.

Any use other than this is not permitted without the written consent of the manufacturer.

Our General Terms and Conditions apply for all orders.

1.1 Hazard levels indicated by warning notices

The following hazard levels alert you to potentially dangerous situations:

DANGER

This warning notice indicates a dangerous situation that will result in death or serious injury if it is not avoided.

WARNING

A warning notice designated in this manner indicates a potentially dangerous situation that can result in death or serious injury if it is not avoided.

CAUTION

A warning notice designated in this manner indicates a dangerous situation that could result in slight or minor injury if it is not avoided.

NOTE

A warning notice designated in this manner indicates a potentially dangerous situation that could result in material damage or environmental damage if it is not avoided.

1.2 Explanation of symbols



Specific instructions for better understanding and operation.

► Individual step

1. Numbered instruction

2. ...

3.

① Action number: defines the sequence of actions in illustrations and is marked in the text.

[1] Position number: Indicated by text in square brackets.

1.3 Intended use

The Spatio system complies with the applicable safety regulations within the scope of its intended use.

- The product may only be used in the commercial area.
- The Spatio system may only be used in dry indoor areas.
- The Spatio system may be used solely in compliance with the permissible load values (see section „4.2 Mechanical loads“ on page 8).

Any unintended use and unauthorised modification of the Air system shall be deemed as unauthorised misuse that does not fall within the manufacturer's statutory liability limits.

Misuse

Potential sources of danger:

- Unintended use
- Operation with improperly fitted or inoperative safety and protective devices
- Failure to observe the instructions in the documentation
- Unauthorised modification of the system

Residual risks

The system can pose residual risks to persons and property. Risk of death/injury can occur due to:

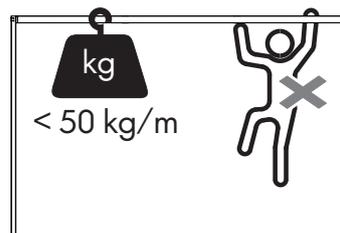
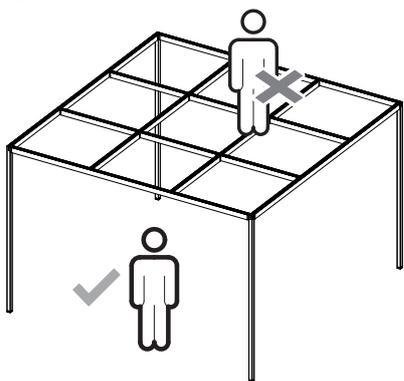
- Misuse
- Incorrect operation
- Missing safety devices

1.4 General safety

i Spatio is a free-standing support system powered by a 230 V electrical connection. Stability is ensured by distributing the weight evenly across at least four uprights.

Carefully read the following safety instructions and information for safe operation before starting work.

- ▶ The system should be assembled with at least three people.
- ▶ During assembly, wear suitable protective equipment.
- ▶ Assemble or dismantle only when power plug is pulled out.
- ▶ Lay the power cable so that it does not pose a trip hazard. Do not lay mains power leads in thoroughfares.
- ▶ Do not climb on the system.
- ▶ Do not hang from the profiles. Do not exceed the design loads!



- ▶ Use only approved accessories and electrical devices.
- ▶ Comply with the permitted connection and maximum load values.
- ▶ Keep moisture away from current conducting components.
- ▶ Familiarise yourself with all the functions of the system.

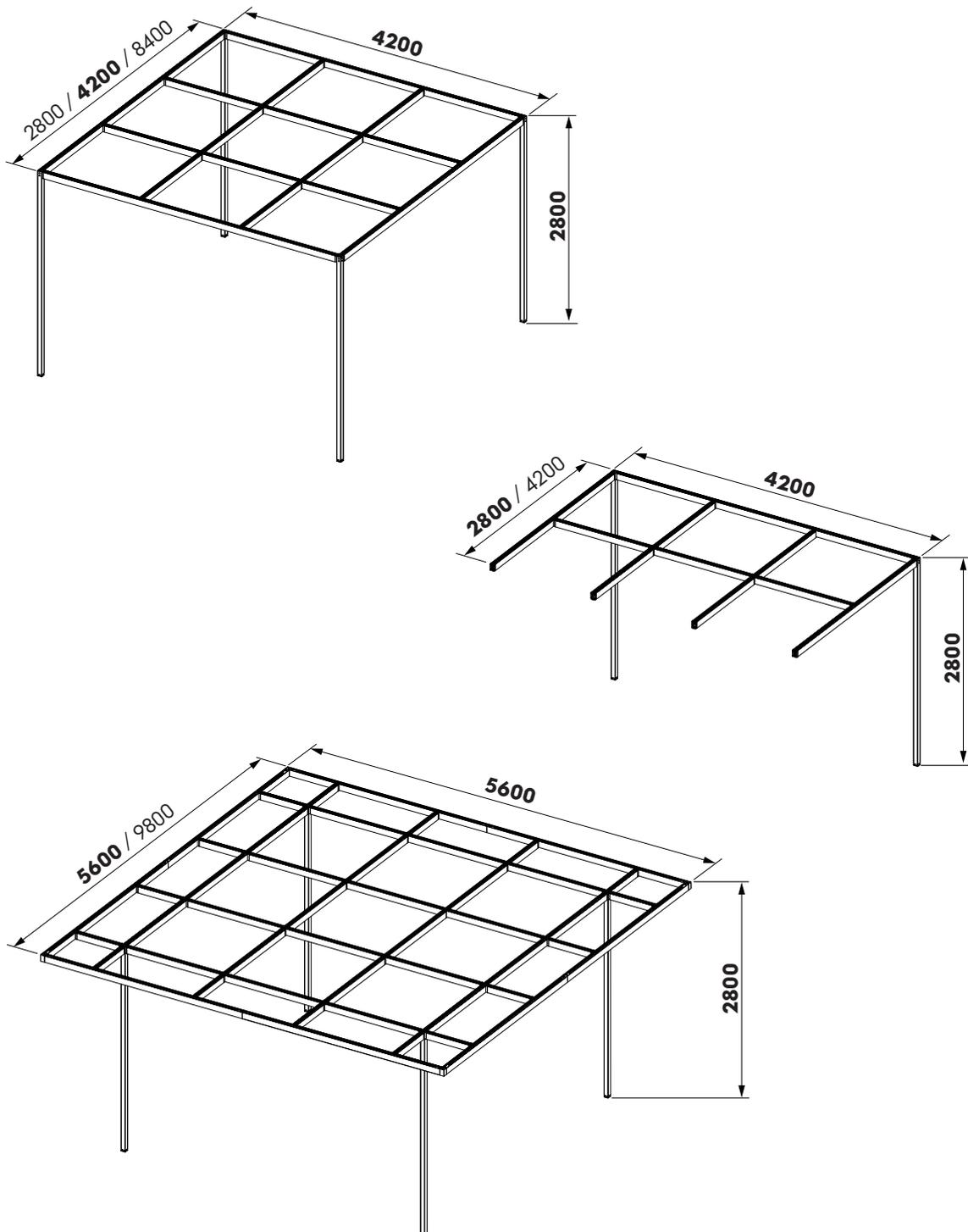
2 Product description

Spatio is an electrified, freestanding support system which is completely independent of walls and ceilings.

The system can be used as a stand-alone base structure or individually expanded with add-on modules. As a result, Spatio can be used to create large spaces.

The optional pre-mounted power tracks allow the entire area to be supplied with power. This makes it easy to integrate electrified frames with merchandise supports, lights, screens and digital devices. Spatio can be used both as a temporary and long-term structure.

- i** The base structure (top figure) is available pre-configured in three different sizes. The height and width are always the same, the depth varies. The add-on modules (middle figure) are available pre-configured in two different sizes. The pavilion with cantilever (bottom figure) is available in two different sizes.



3 Delivery



All parts are supplied partially or fully pre-assembled.

3.1 Unpacking



You must check the Spatio system for integrity before accepting delivery. Any damage must be documented with the carrier in order to make a claim.



If necessary, retain the packaging in case further transport is required.

NOTE

Hazards to the environment can occur if product components are disposed of improperly.

- ▶ Ensure product components are disposed of in a proper environmental manner or through waste management specialists.
- ▶ Send components that can be recycled for recycling.

4 Technical data

4.1 Connected electrical loads

Connected electrical loads

Connection / mains power	1 x 230 V
Maximum power	16 A
Frequency	50-60 Hz
Nominal voltage	230 V
Protection class	I
IP protection type	IP20
Maximum operating temperature	45 °C

4.2 Mechanical loads

⚠ WARNING

Risk of injury from falling objects and system components.

The system can fail if the maximum permissible load on the system or on its individual components is exceeded.

- ▶ Do not exceed the maximum permissible load of 500 kg with an evenly distributed load on the entire Spatio structure.
- ▶ Do not exceed the maximum profile load of 50 kg/m.

The specified loads refer to the components listed in the product catalogue. The maximum weight loads apply with respect to a uniform load distribution. The maximum load applies including the net weight and the weight of all components. The load must be reduced immediately if there is visible deflection or deformation of the components.

Maximum load

Profiles	50 kg/m
Profiles for cantilever	30 kg/m
Uprights for frame	120 kg
Support frame for shelf	40 kg
Plug-in shelf brackets	40 kg
Hanging rail	40 kg
Hanging rail with front arm	40 kg
Front arm	15 kg

5 Assembly

⚠ WARNING

Risk of injury from falling goods or merchandise supports

If the installation is not executed properly or if the substrate cannot accommodate the necessary loads, the system can fail.

- ▶ Note and comply with all of the following assembly instructions and the information in section „1 General“.
- ▶ Make sure that the substrate is suitable for the expected loads.

⚠ WARNING

Risk of injury

Before the furniture is connected to the electrical power, the following conditions must be met:

- ▶ The furniture must be constructed according to the assembly instructions and be structurally stable. All electrical consumers are assembled.



The structure shown must not correspond to the structure delivered to you. The general assembly logic is shown.

5.1 General information

Check the delivery for completeness and integrity immediately upon receipt.

Proceed as follows if there is apparent transport damage:

- Do not accept delivery, or only accept delivery subject to reservation.
- Note the scope of damage on the transport documents or on the delivery ticket of the freight forwarder.
- Initiate the claim process.

Packaging

- The product is safely packed so that transport damage is unlikely.
- Keep the original packaging for later transport.
- Comply with all instructions that are specified on the packaging.

Disposing of packaging material

If packaging material is no longer required, dispose of it in accordance with the locally-applicable disposal regulations.

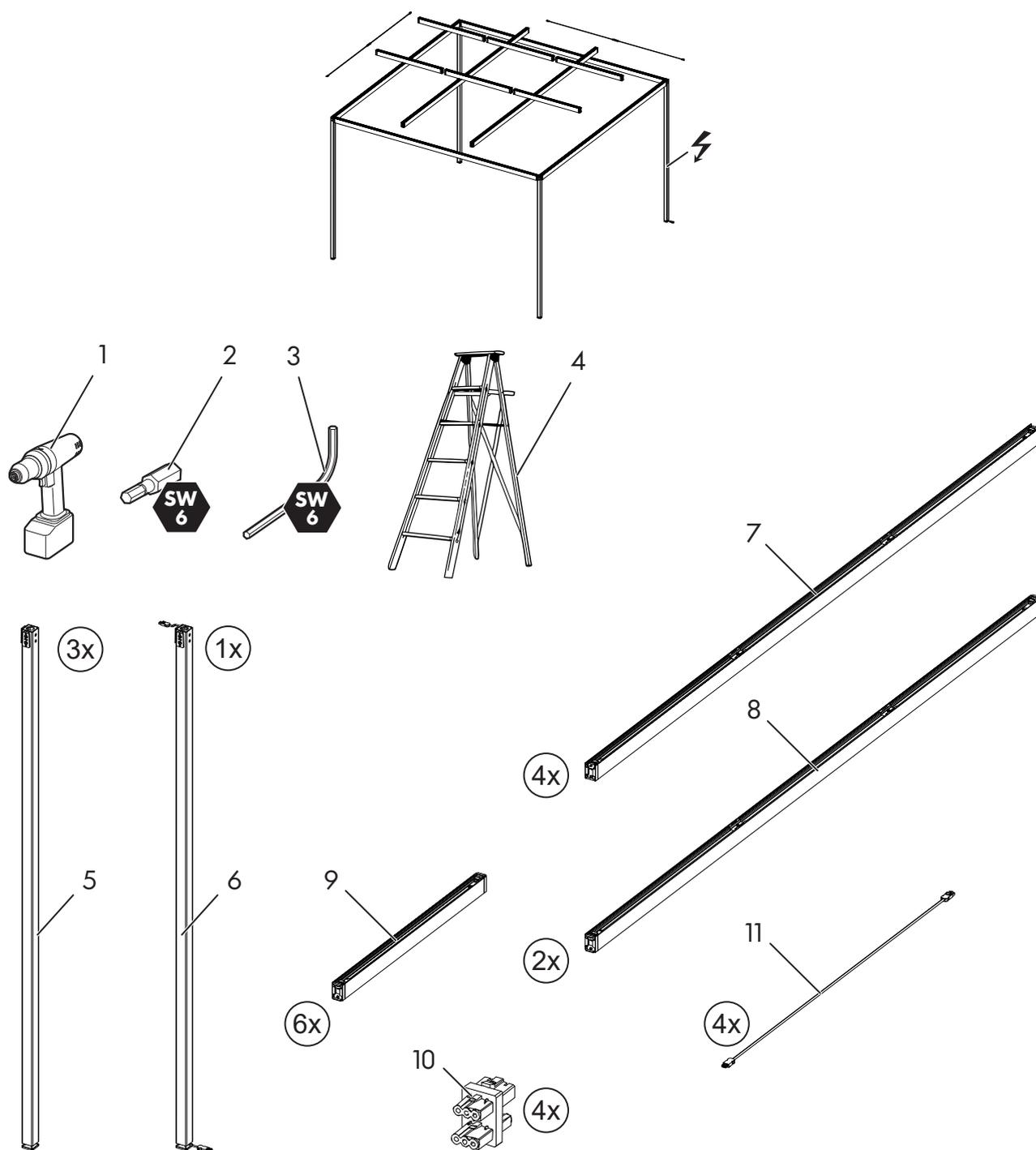
Requirements for the installation location

The installation location must meet the following requirements:

- The installation location must be dry. Installation outdoors is prohibited.
- The substrate must be designed for the loads that will be supported, and must be capable of accommodating these loads.

5.2 Base structure and pavilion with cantilever

5.2.1 Components and tools (typical illustration for electrified base structure)



- 1 Battery-powered cordless screwdriver
- 2 6 mm cordless screwdriver hex bit
- 3 6 mm Allen key
- 4 Step ladder
- 5 Non-electrified upright
- 6 Electrified upright with GST18i3 coupling

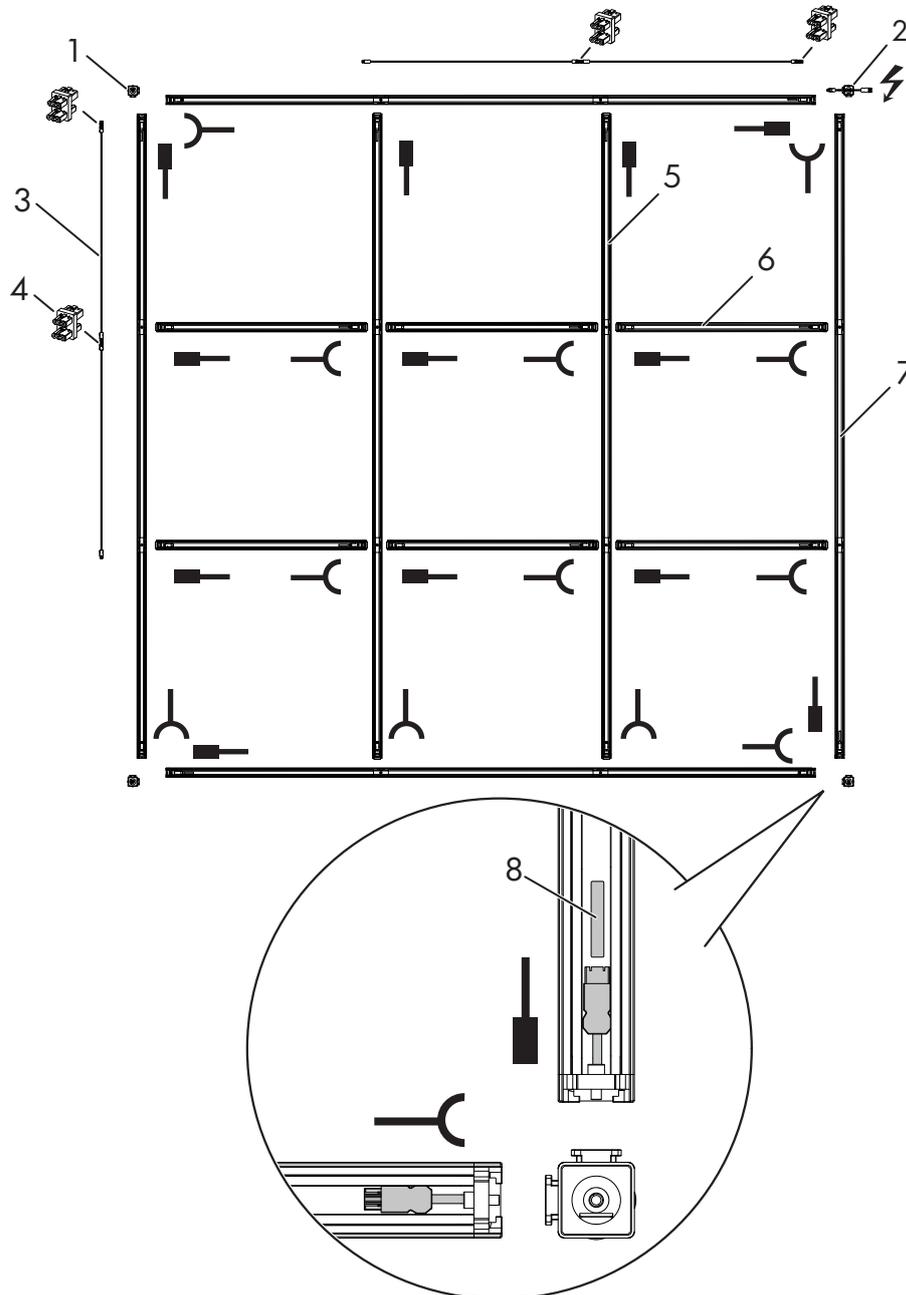
- 7 Connection profile for 4200 mm axis
- 8 Grid connection profile for 4200 mm axis
- 9 Grid connection profile for 1400 mm axis
- 10 GST15i3 distribution device
- 11 GST15i3 extension cable

5.2.2 Preparation

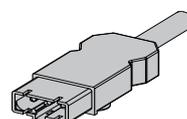
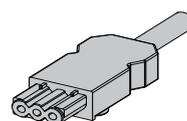
- Prior to assembly, prepare all of the necessary parts corresponding to their subsequent position in the structure on the floor (Cantilever assembly, see section „5.5 Cantilever“ on page 21).

i With electrified structures (aluminium profiles with integral power track) plugs and sockets must always be positioned on opposing profile ends.

i The following figure represents an arrangement of profiles and uprights for the assembly of an electrified base structure.

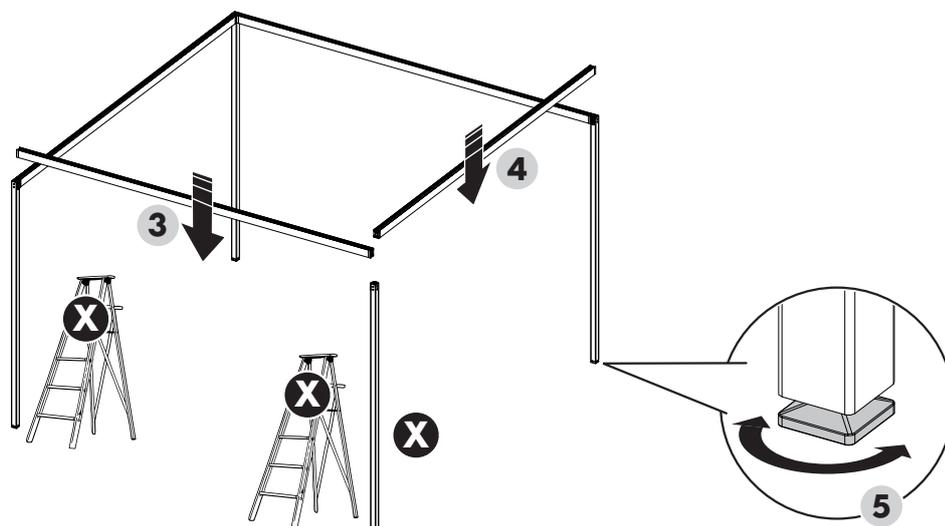
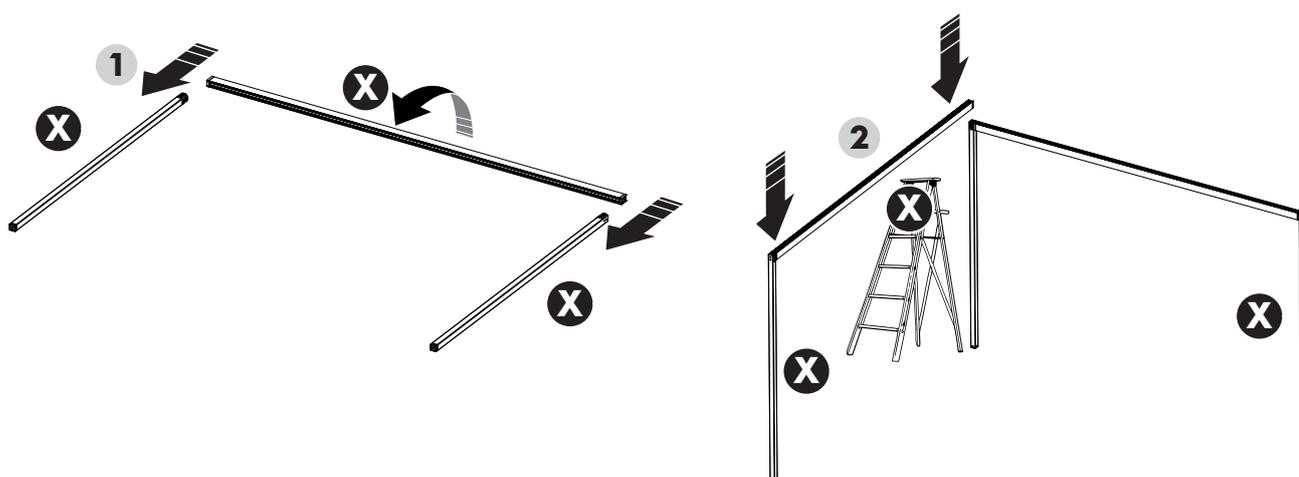
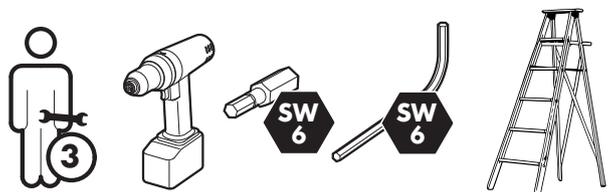


- 1 Non-electrified upright
- 2 Electrified upright with GST18i3 coupling
- 3 GST15I3 extension cable
- 4 GST15I3 distribution device
- 5 Grid connection profile for 4200 mm axis
- 6 Grid connection profile for 1400 mm axis
- 7 Connection profile for 4200 mm axis
- 8 Label for position of the plug



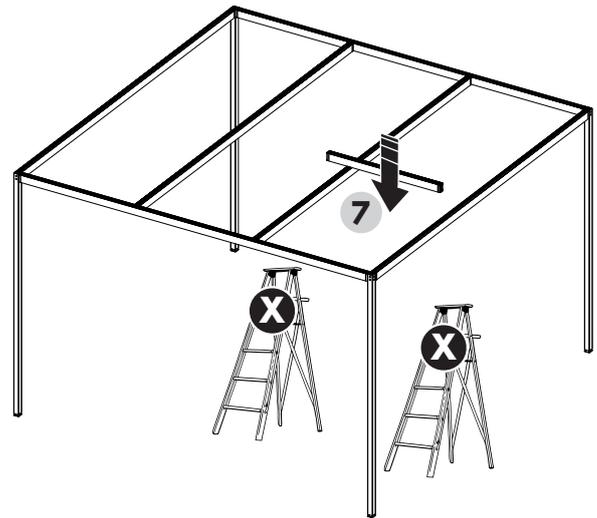
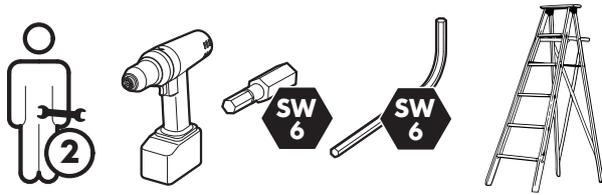
5.2.3 Base structure assembly procedure

1. On the floor, assemble a connecting profile on two uprights (U-shape) and erect (see „5.2.4 Basic principle - fitting a connecting profile on an upright“ on page 14).
2. Fit a second connecting profile on the third upright (L-shape), erect and fit on the U-shape.
3. Fit the third connecting profile on the structure and fit the fourth upright.
4. Fit the fourth connecting profile.
5. After all connecting profiles have been assembled, the height of the structure must be levelled.



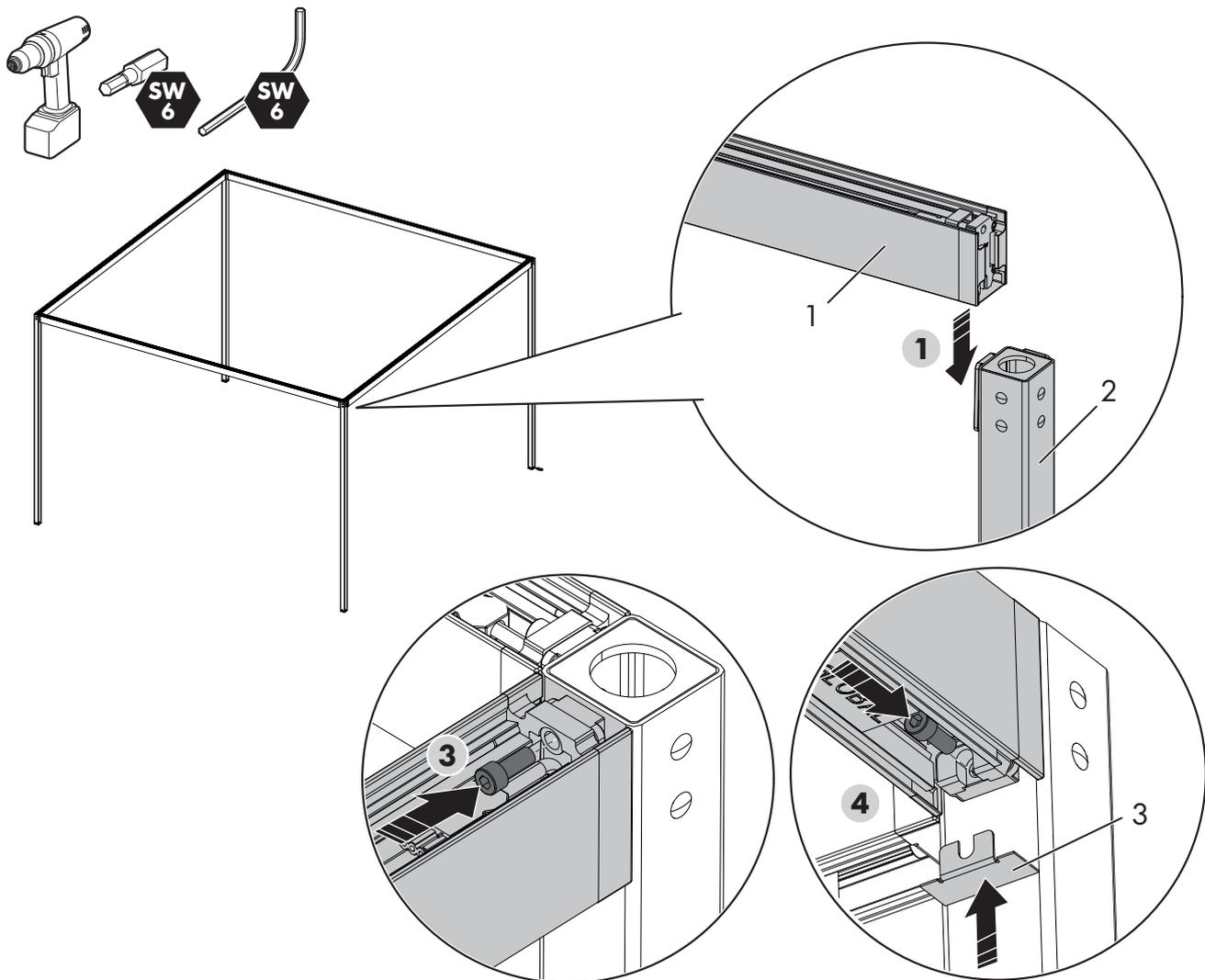
X = Person

6. Fit both A4200 grid connecting profiles (see „5.2.5 Fitting grid connecting profiles“ on page 15).
7. Fit A1400 grid connecting profiles.



5.2.4 Basic principle - fitting a connecting profile on an upright

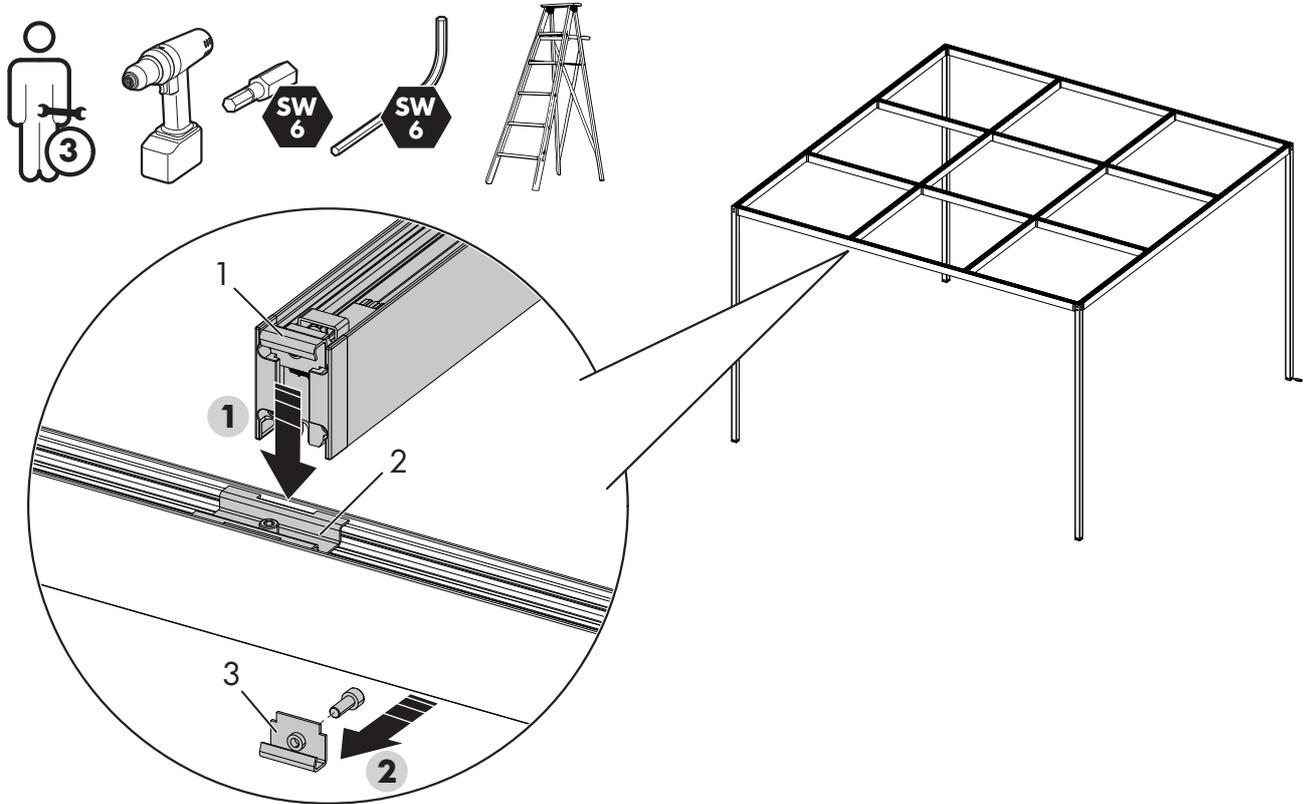
1. Plug the connecting profile [1] horizontally onto the mounting plates of the upright [2].
2. Screw in the profiles at the top (10 Nm).
3. Screw in the profiles at the bottom while at the same time securing the supplied cover [3].



5.2.5 Fitting grid connecting profiles

i First fit the long A4200 profiles, then the short A1400 profiles.

1. Plug the pre-assembled top fastening lug **[1]** of the profile on the positioning aid **[2]**. The already attached positioning aid ensures the precise spacing of the profiles relative to each other.
2. Screw on the bottom fastening lug **[3]** (10 Nm).



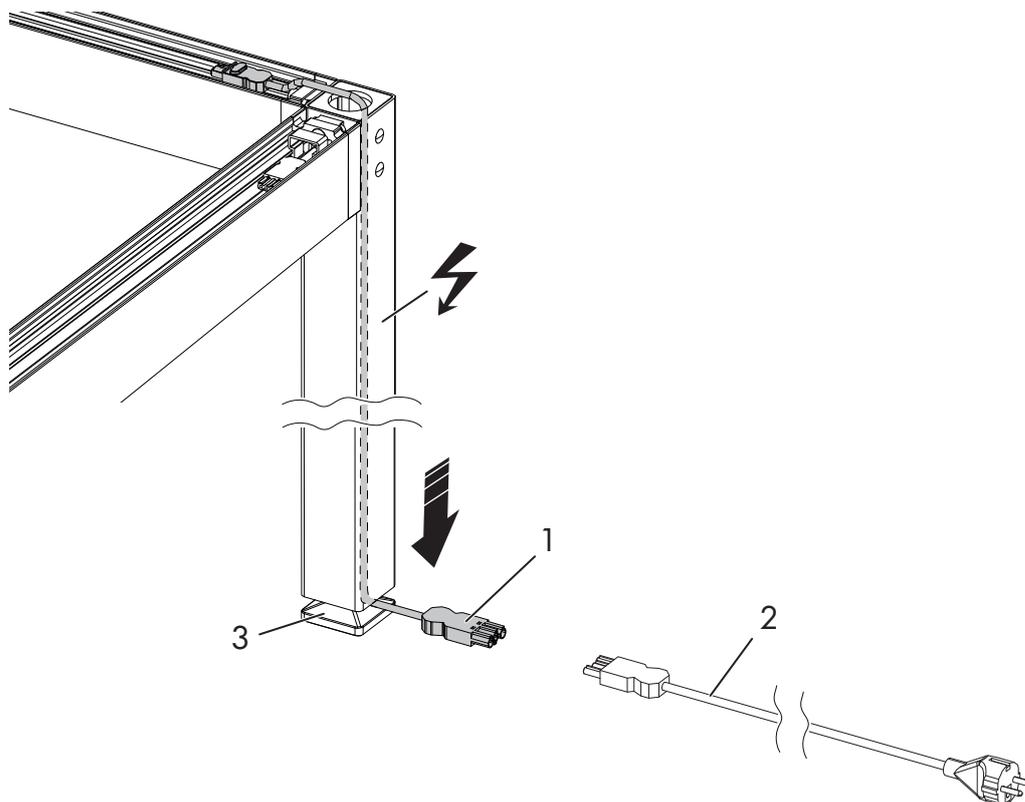
5.3 Electrification

5.3.1 Mains supply lead

The mains supply lead [1] is run in the electrified upright from the bottom to the top.

To connect it to a power source, there is a mains connection [2] with country-specific plugs.

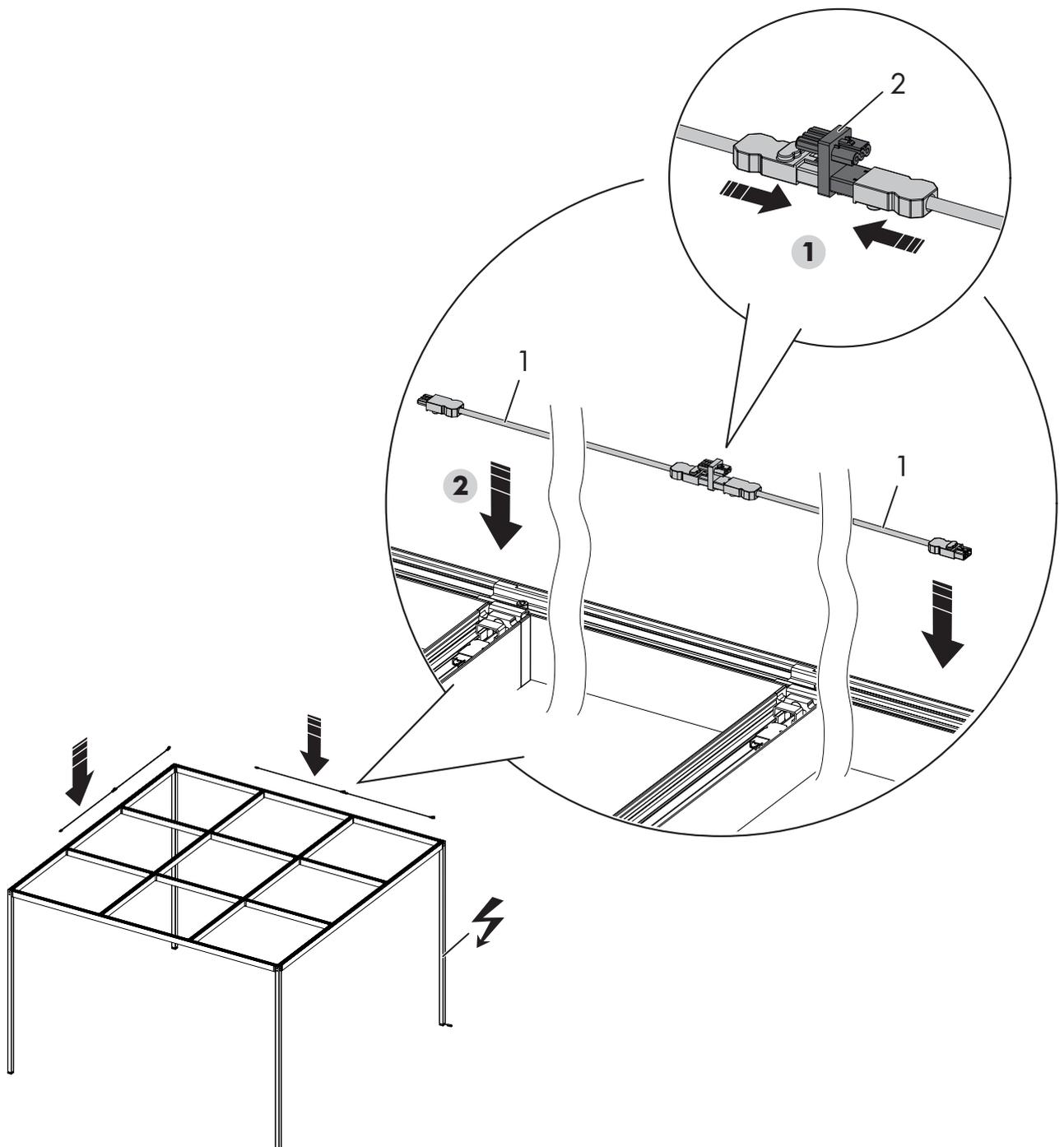
i The mains supply lead can be pulled out of the upright to connect the structure to a power source in the ceiling. To do so screw out the upright foot [3] and pull out the mains power cable from the top to the bottom out of the upright.



5.3.2 Inserting an extension cable

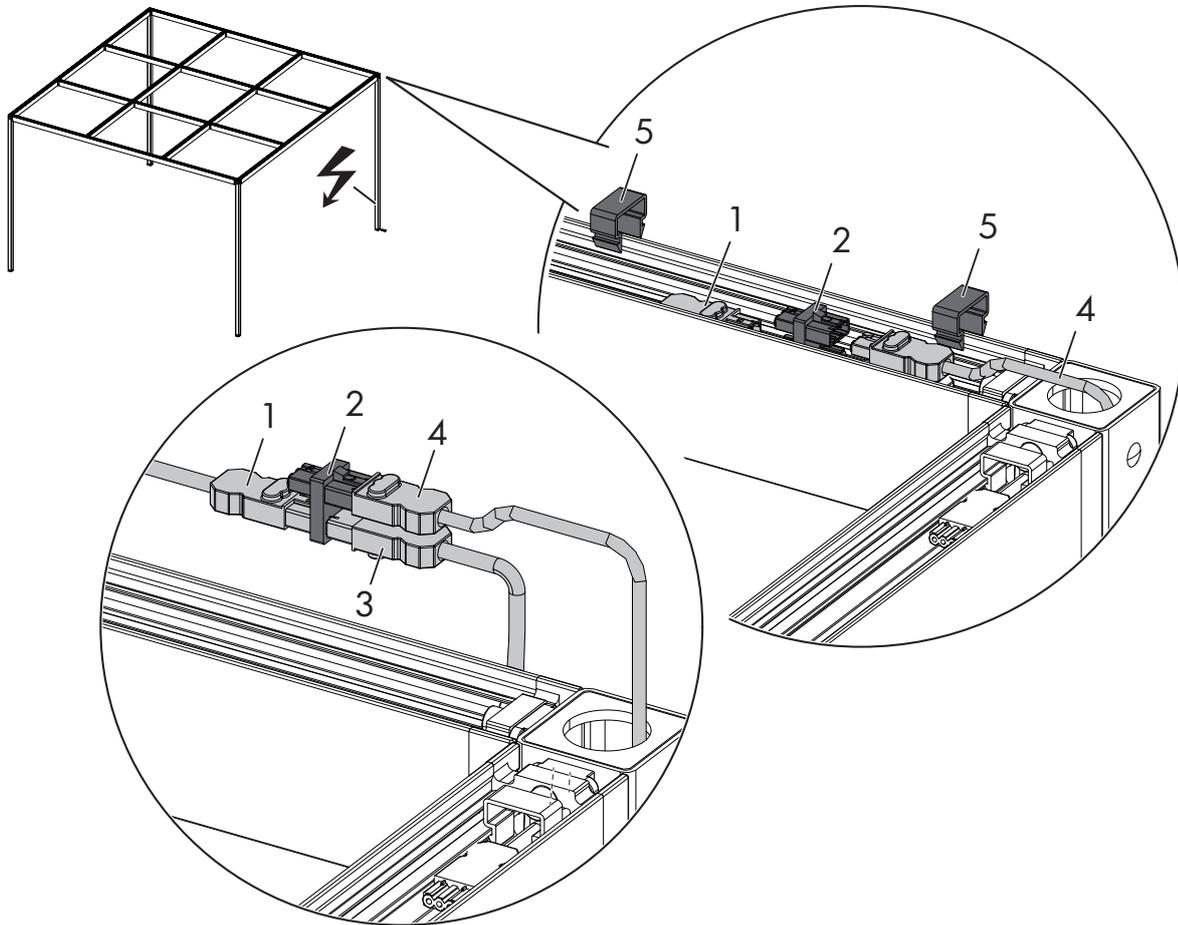
The electrification of the power tracks in the profile takes place above.

1. For power supply to the middle profiles, connect two extension cables [1] using a distribution device [2].
2. Route the extension cable in the profiles.



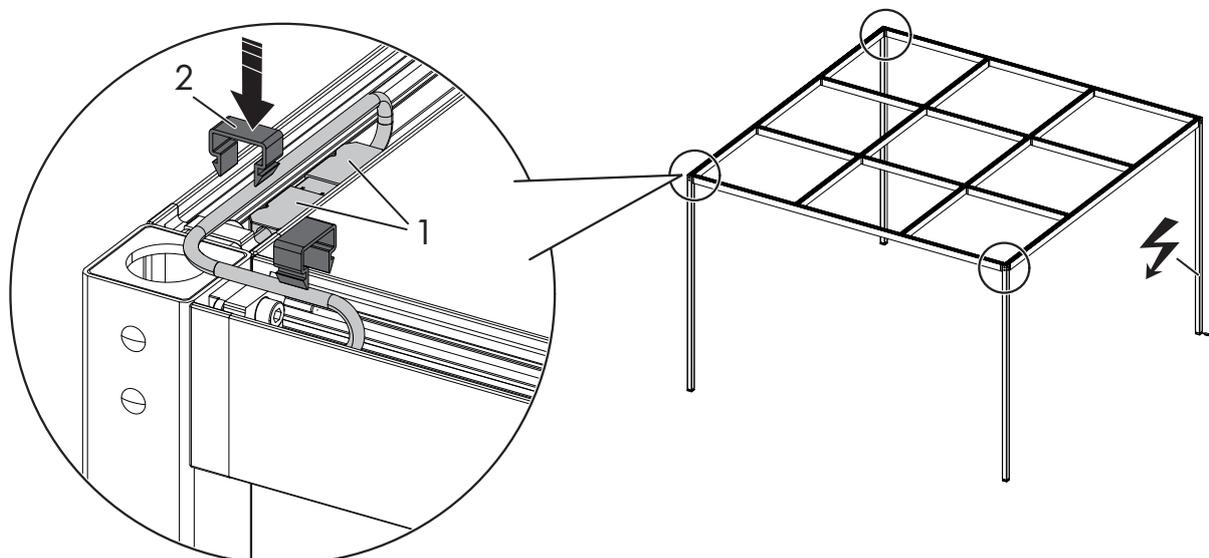
5.3.3 Connecting an extension cable

1. Connect the extension cable [1] at the distribution device [2].
2. Connect the power track connection cables [3] at the distribution device [2].
3. Only on an electrified upright: Connect the mains supply lead [4] at the distribution device.
4. Secure cables with plastic clips [5].



5.3.4 Cable routing above the uprights

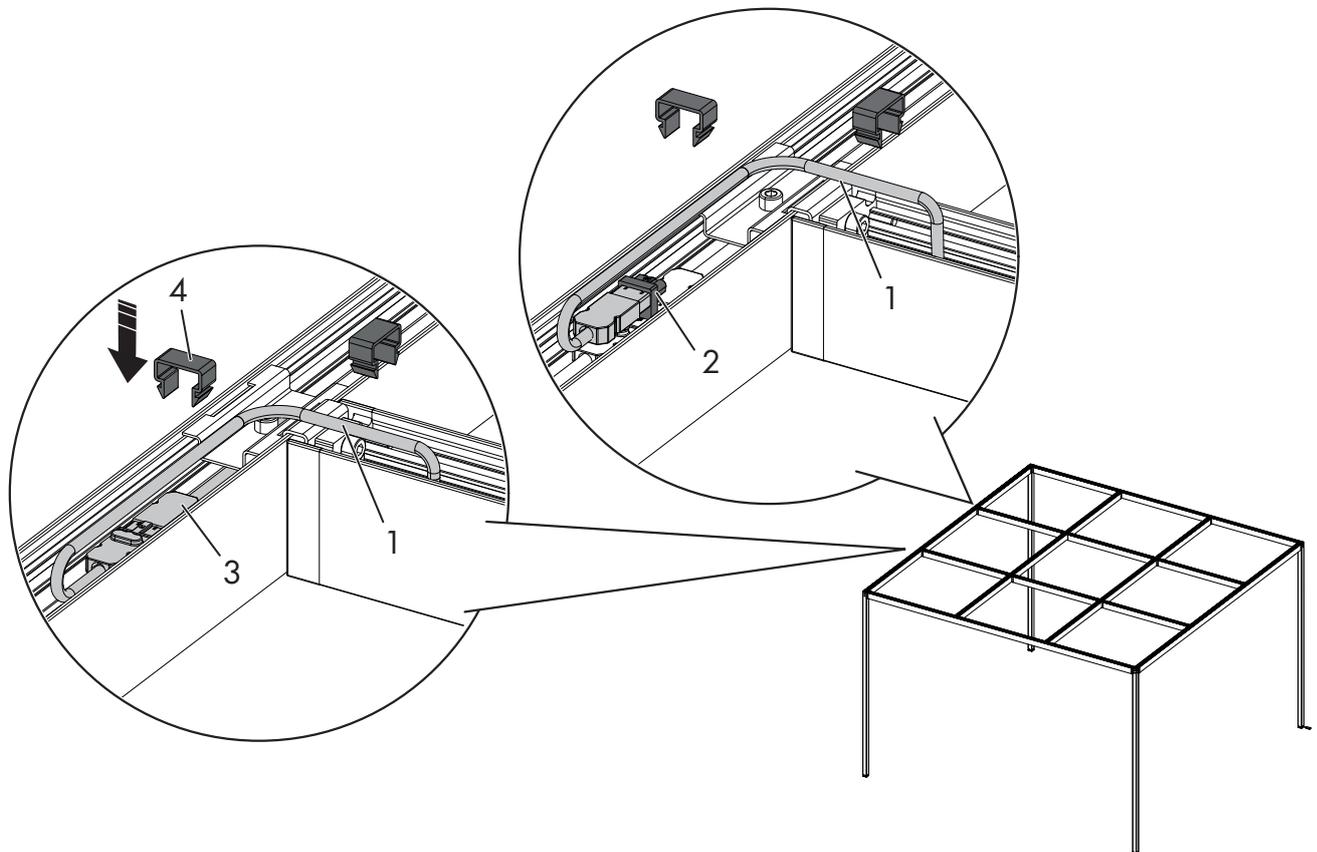
- For cable routing above the three non-electrified uprights, plug the connection cables of the power tracks [1] together or plug together at the distribution device. Secure cables with a plastic clip [2].



5.3.5 Grid-connecting profiles connection

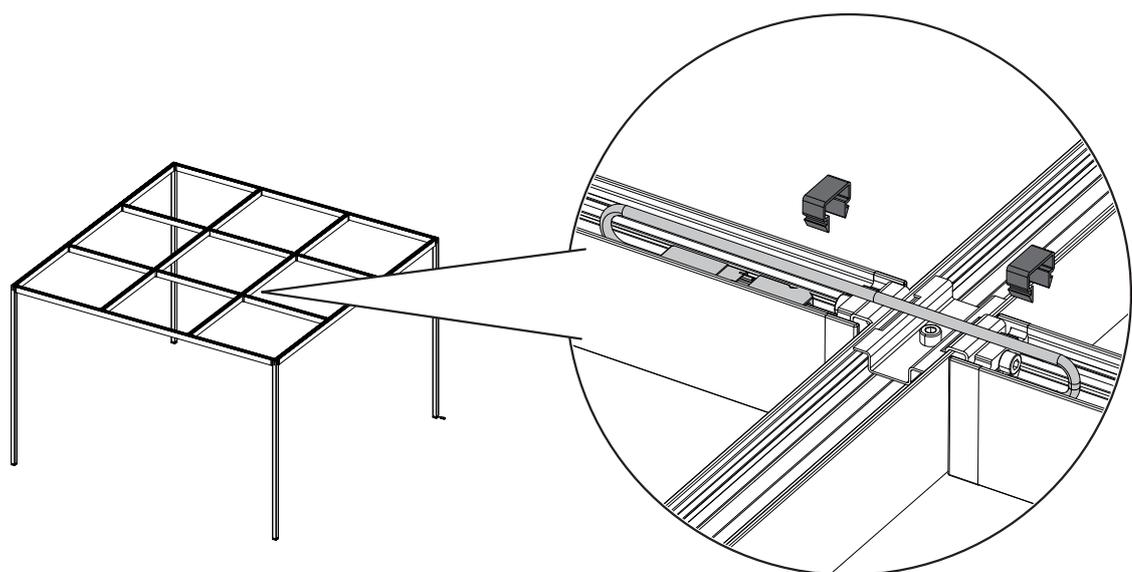
Grid-connecting profiles at connecting profiles

- ▶ To connect the grid-connecting profiles A1400/A4200 at the connecting profiles, connect the connection cable of the power track **[1]** to the distribution device **[2]** or to the extension cable **[3]**. Secure cables with a plastic clip **[4]**.



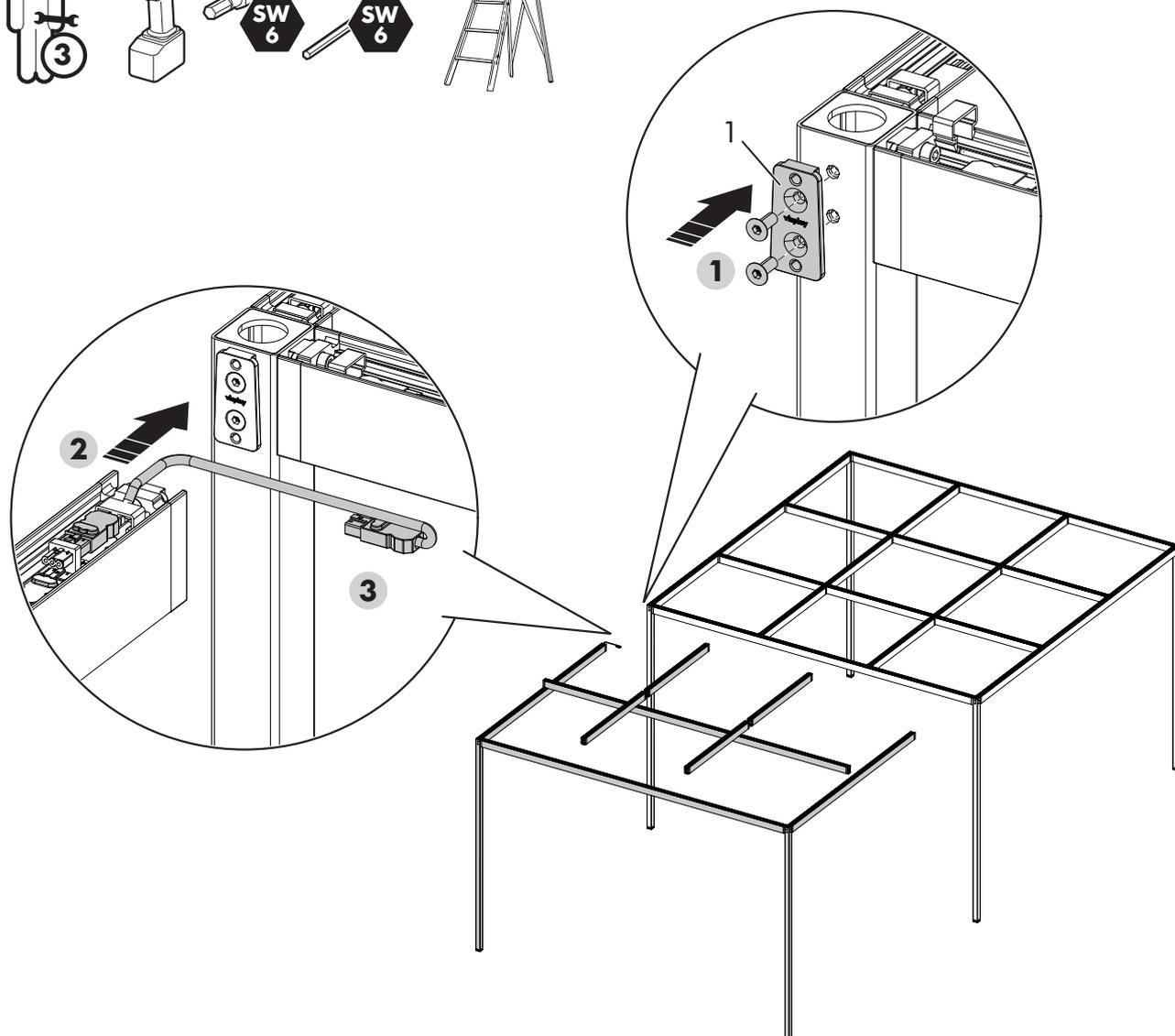
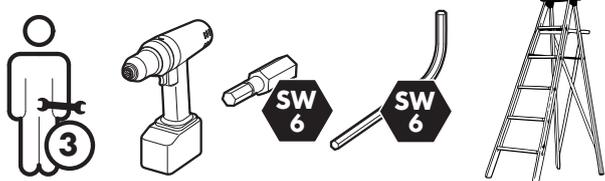
Interconnected A1400 grid connecting profiles

- ▶ Plug the connection cables of the power tracks together and secure cables with a plastic clip.



5.4 Add-on

1. Remove the cover of the thread and fit the additional mounting plates **[1]** on the uprights (10 Nm).
2. Mount profiles as for the basic structure and screw in place.
3. Electrically connect the add-on to the base structure.

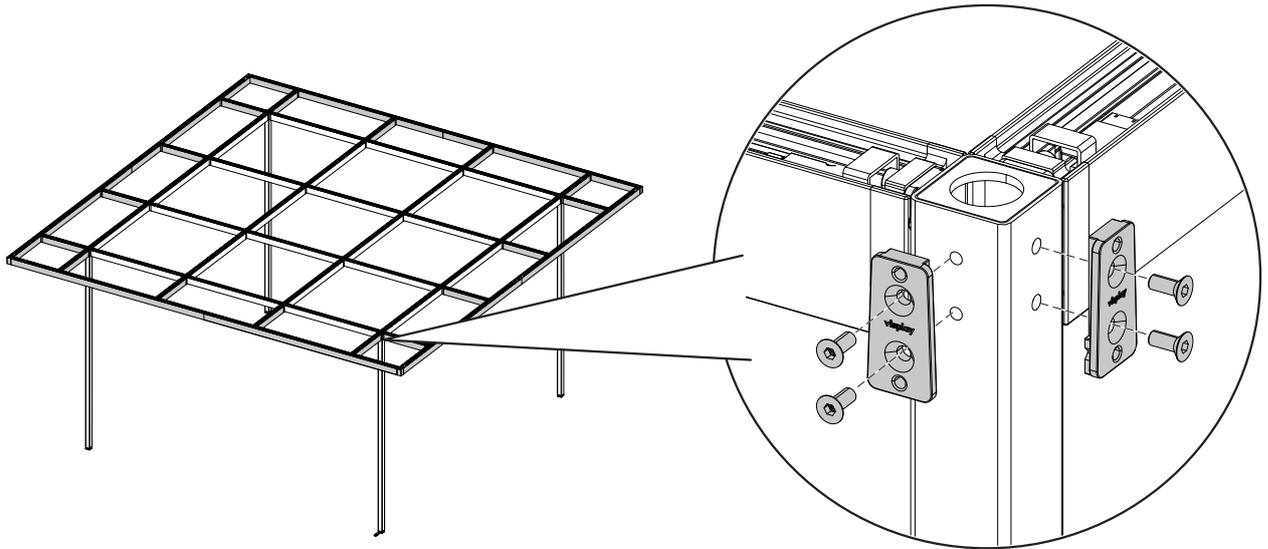


5.5 Cantilever

 The cantilever is installed in individual parts on the base structure.

5.5.1 Fitting mounting plates

- ▶ Screw on the supplied mounting plates on the outsides of the four uprights (10 Nm).



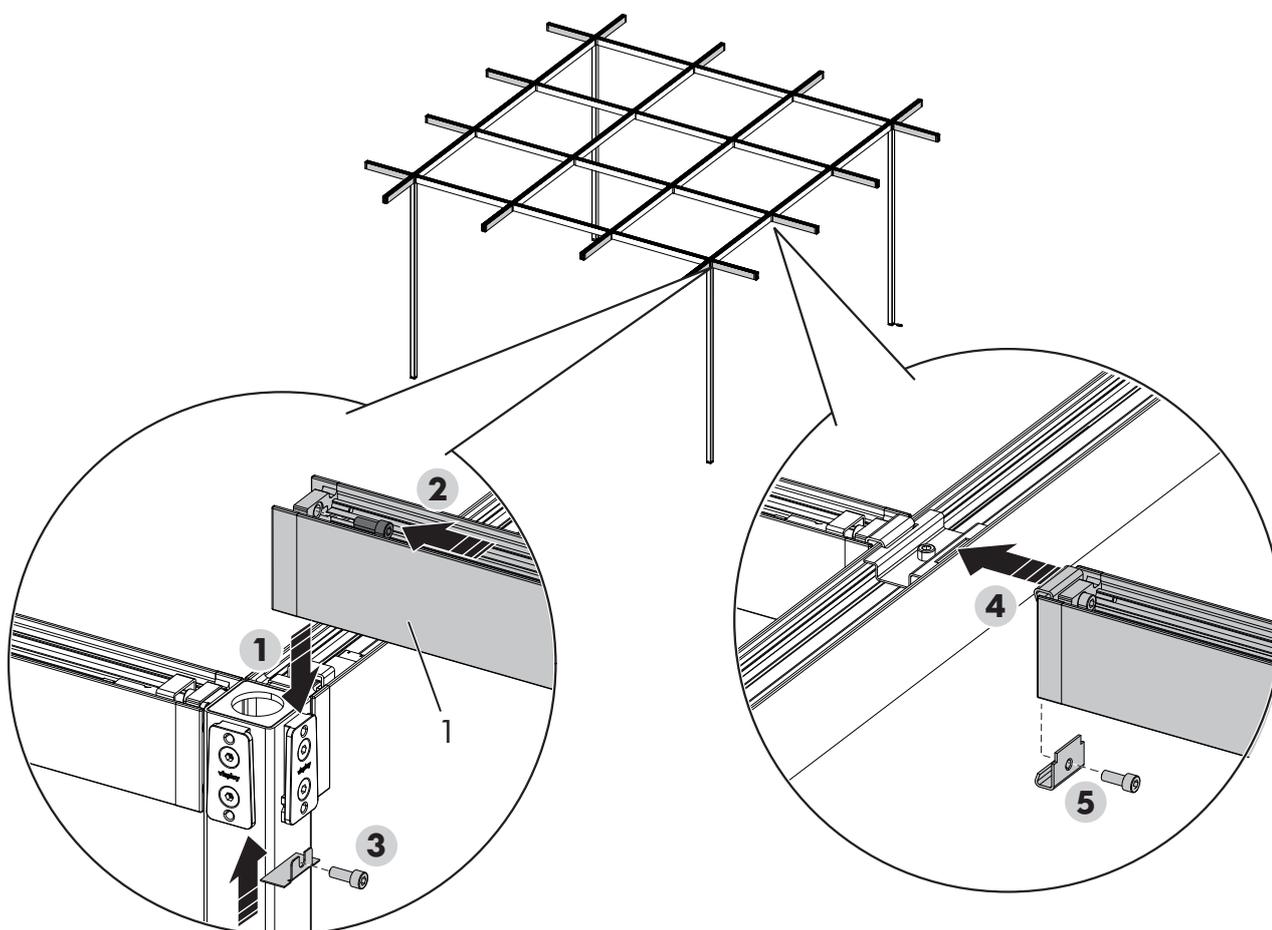
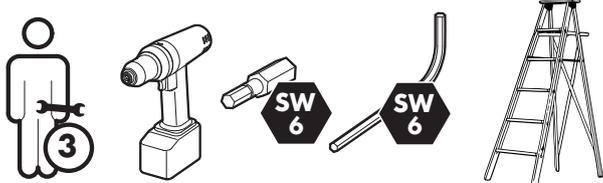
5.5.2 Fitting A700 profiles

A700 profiles on uprights

1. Plug the A700 profile [1] horizontally onto the mounting plates of the uprights.
2. Screw in the profiles at the top (10 Nm).
3. Screw in the profiles at the bottom while at the same time securing the supplied cover.

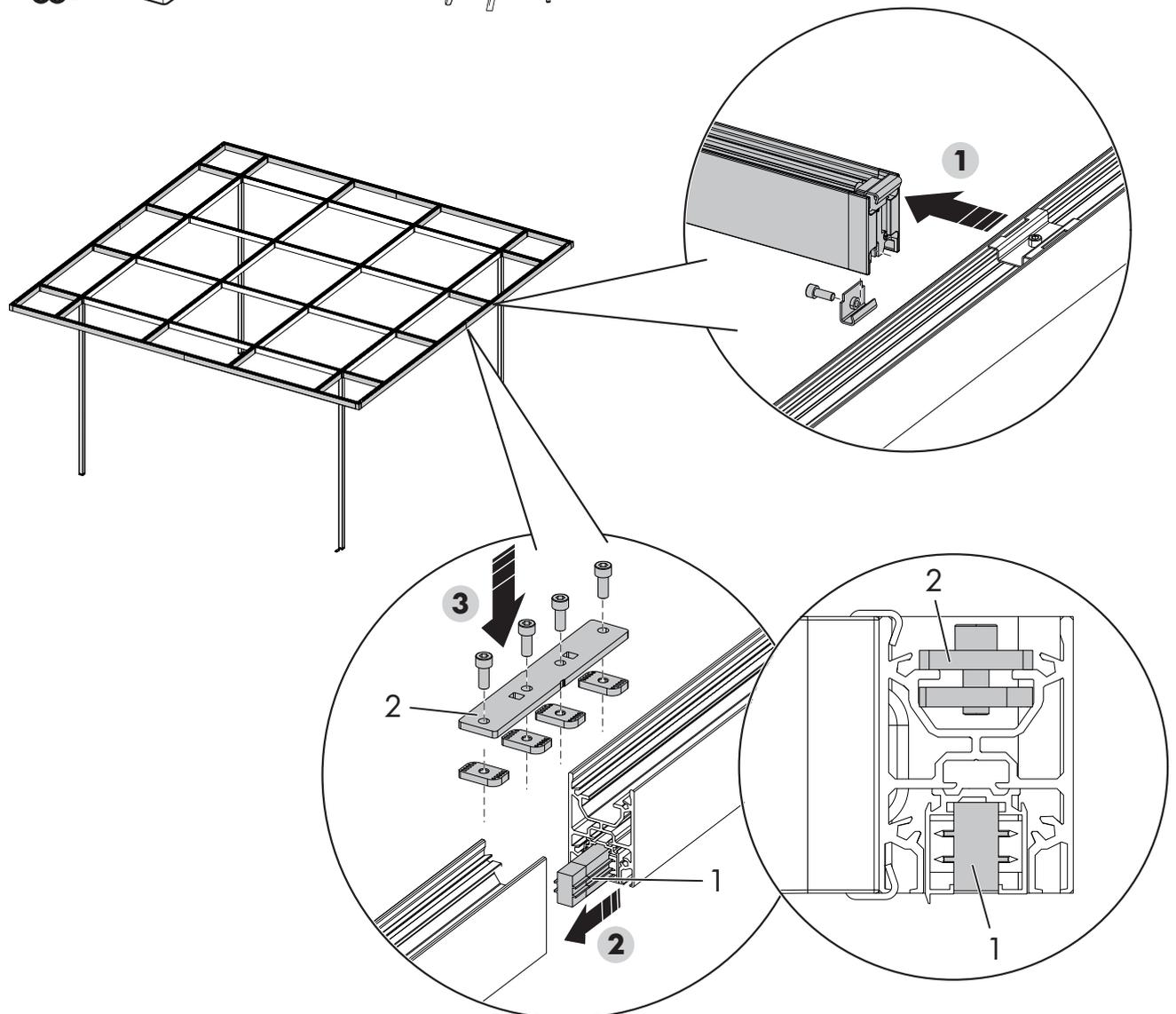
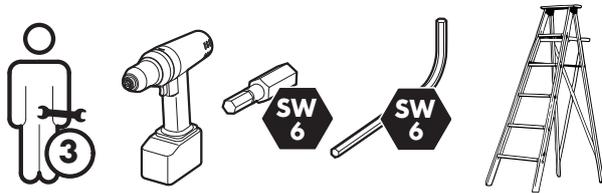
A700 profiles at connecting profiles

4. Plug the top fastening lug of the middle profile on the position aid.
5. Screw on the bottom fastening lug (10 Nm).



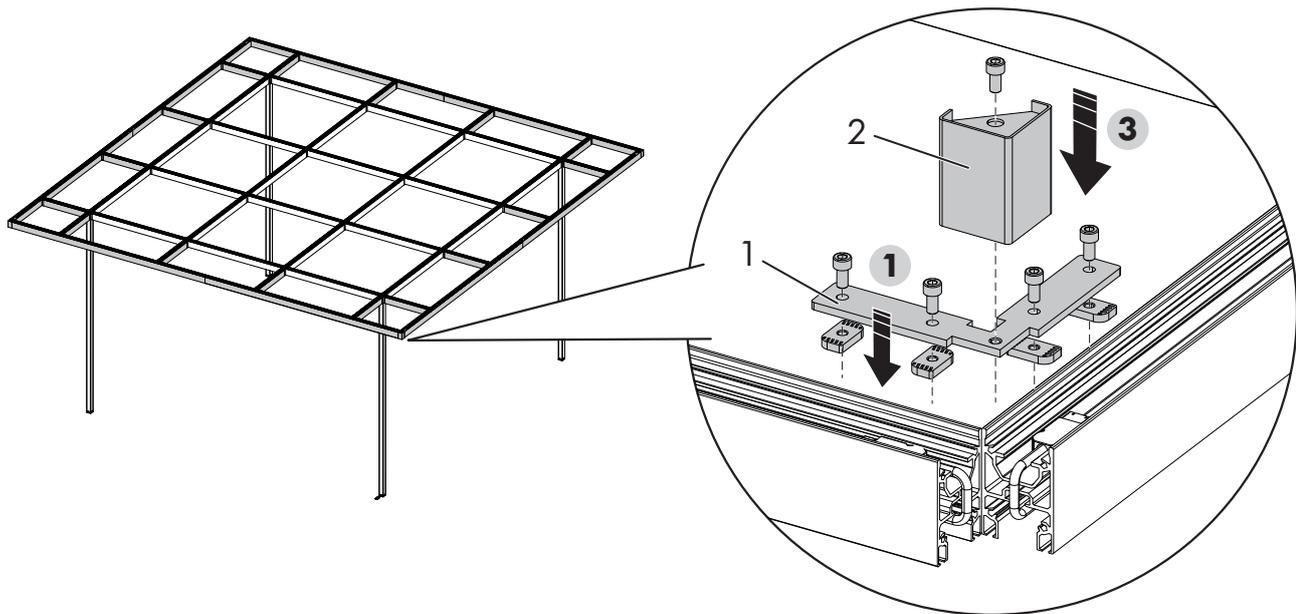
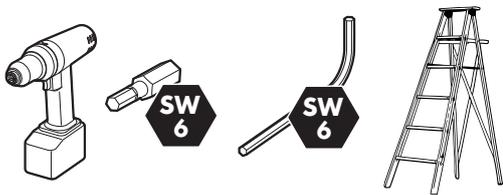
5.5.3 Connecting outer profiles

1. Secure the outer profiles at the top and bottom using the fastening lugs.
2. Join the power tracks together with the connector [1].
3. Fit the connection set [2] at the profile joint (10 Nm).



5.5.4 Corner connection

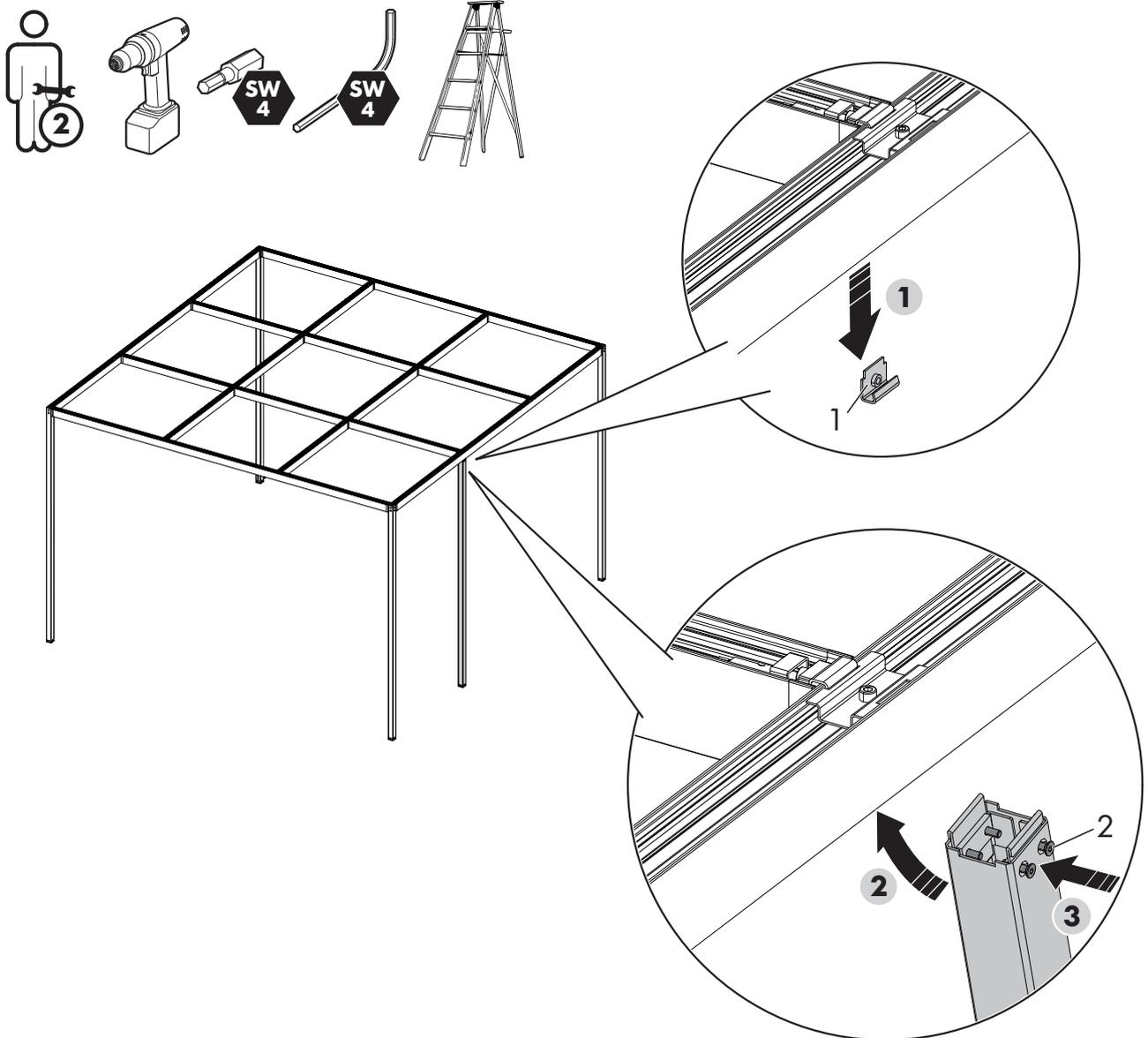
1. Screw on the connecting lug [1] at the profile joint (10 Nm).
2. Connect the cable if the add-on is electrified.
3. Push on cover [2] and screw on from above (10 Nm).



5.6 Partition

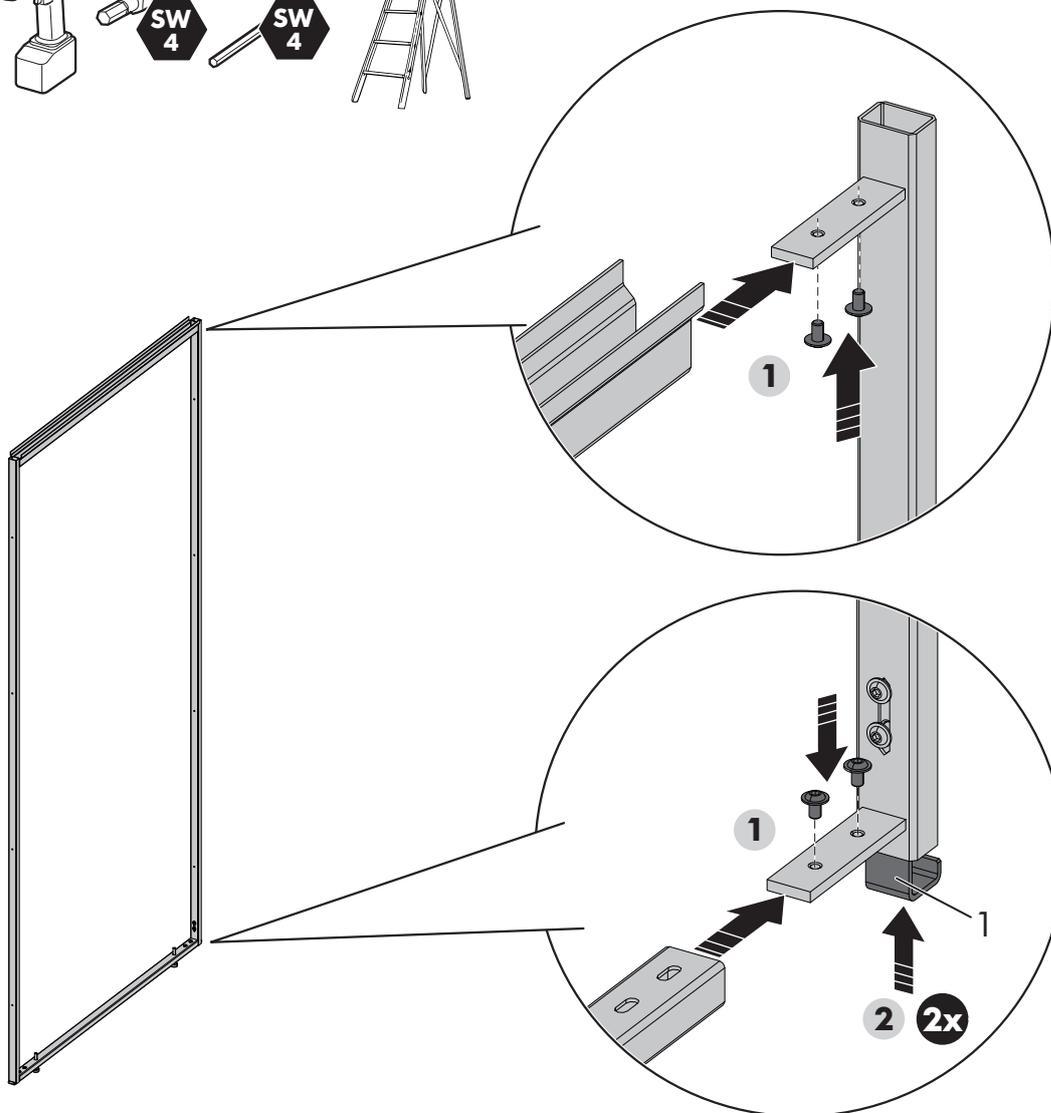
5.6.1 Fitting a substructure upright

1. Remove the bottom fastening lug [1].
2. Position the upright [2] below the profile and align vertically at the middle profile.
3. Tighten all clamping screws (6 Nm).



5.6.2 Frame assembly for partition

1. Join frame together at top and bottom and screw in place (6 Nm).
2. Fit the securing lug [1] to the two uprights at the bottom.

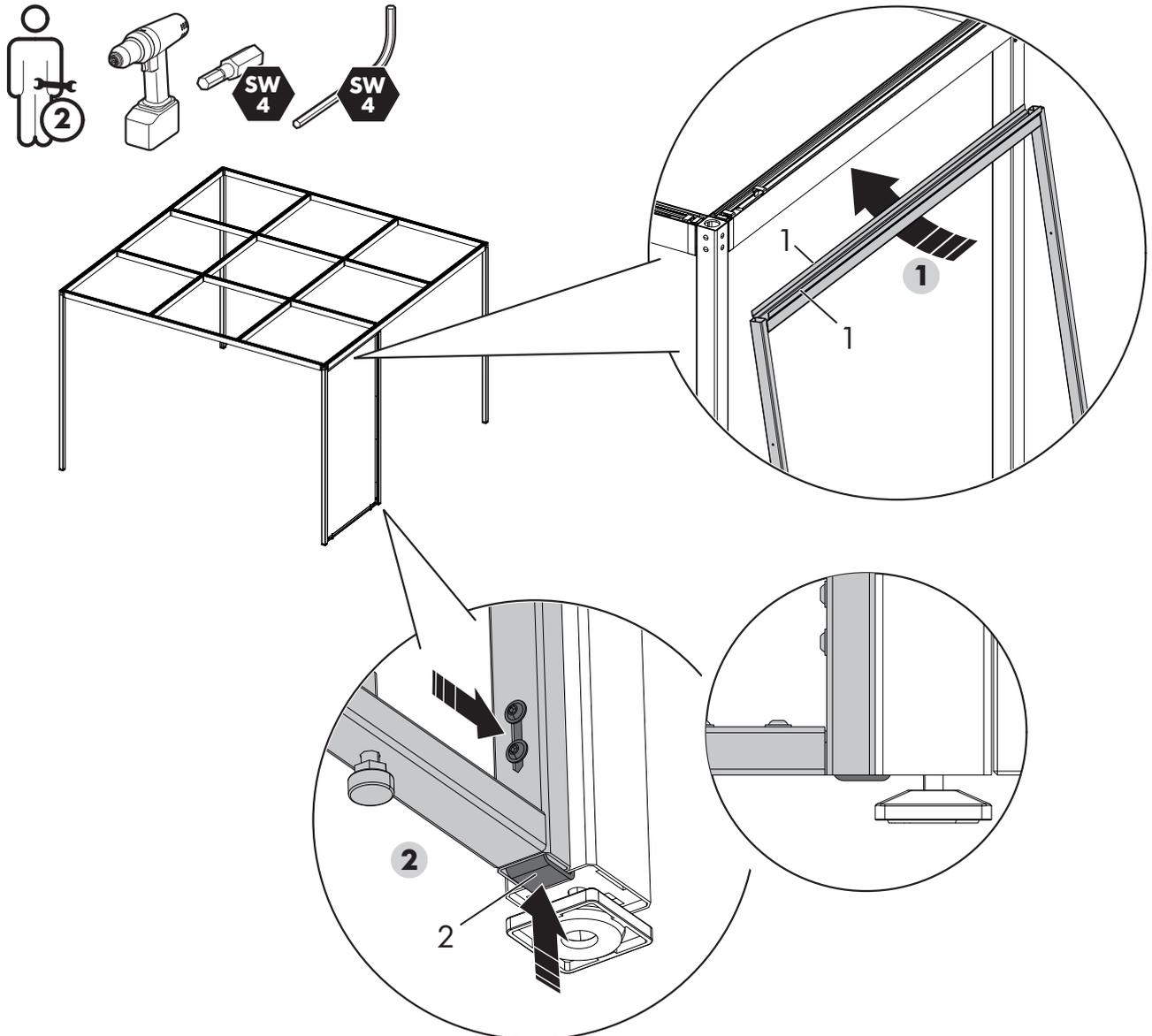


5.6.3 Fitting the frame

i The frame must be flanked on the sides by two uprights. The distance between the vertically aligned uprights must equal 1340 mm.

1. Swivel in the frame and position the two guides **[1]** in the profile.
2. Hook the securing lugs **[2]** in at the bottom into the uprights and screw in place (10 Nm).

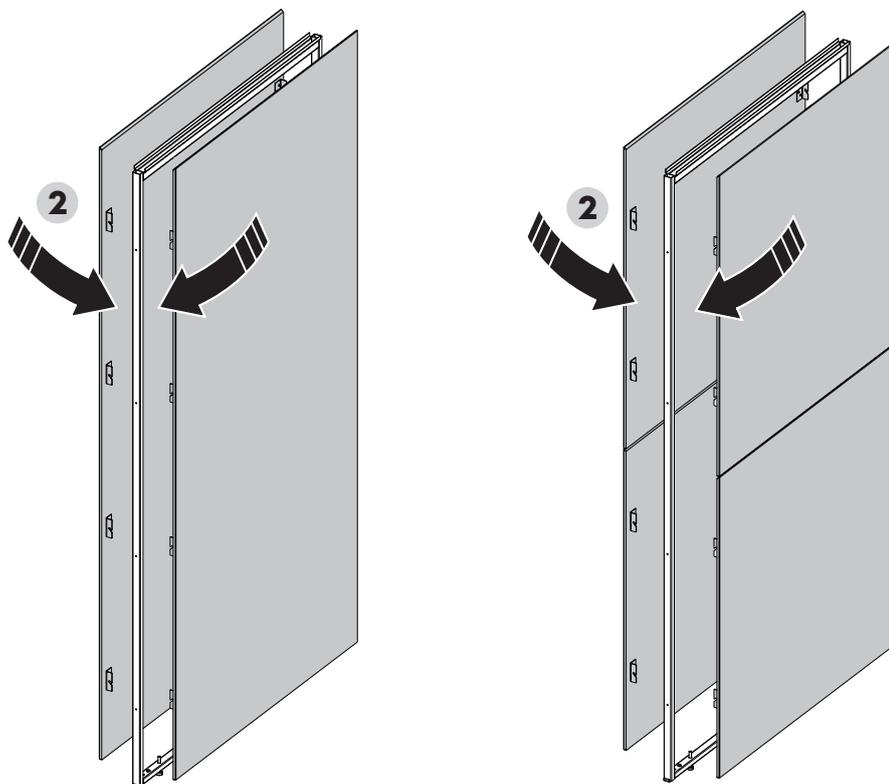
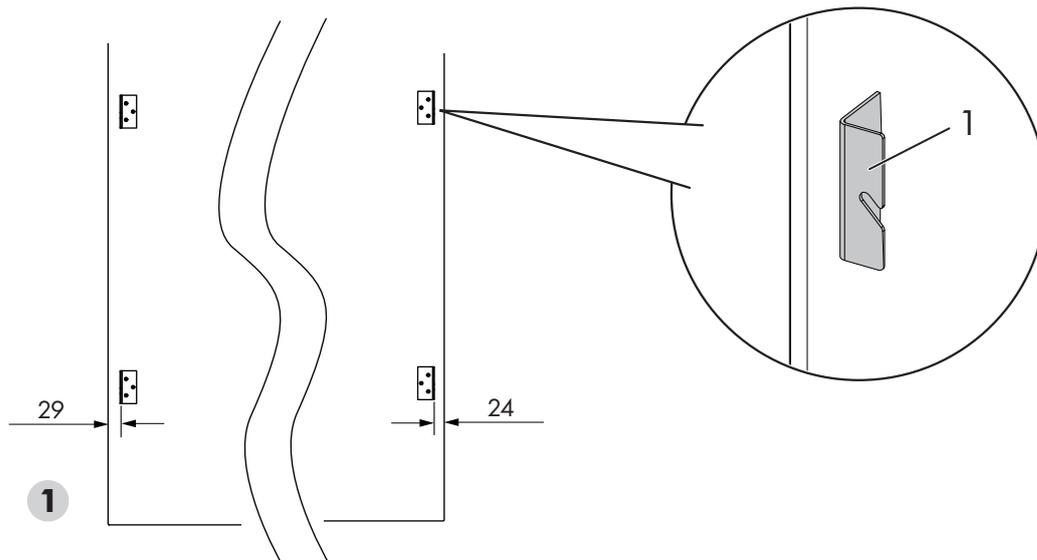
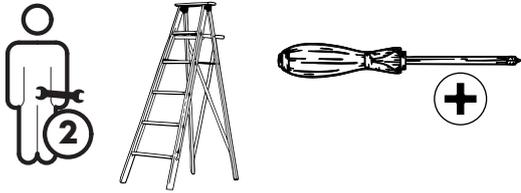
i Securing lug and upright must be flush. To achieve this, push the securing lug fully into the upright.



5.6.4 Fitting the partition plate

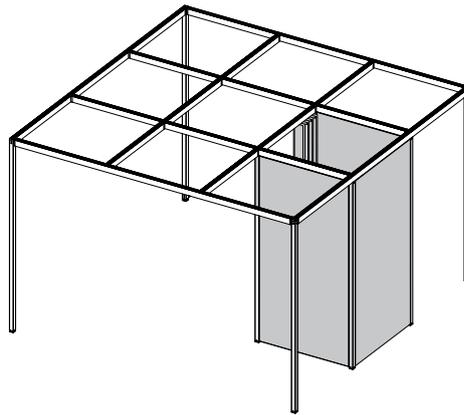
i Both one and two-part partitions are available.

1. At the left and right, screw the mounting brackets onto the plate. When doing so, the hook **[1]** points downwards.
2. Position the plates on both sides at a 45° angle to the frame.



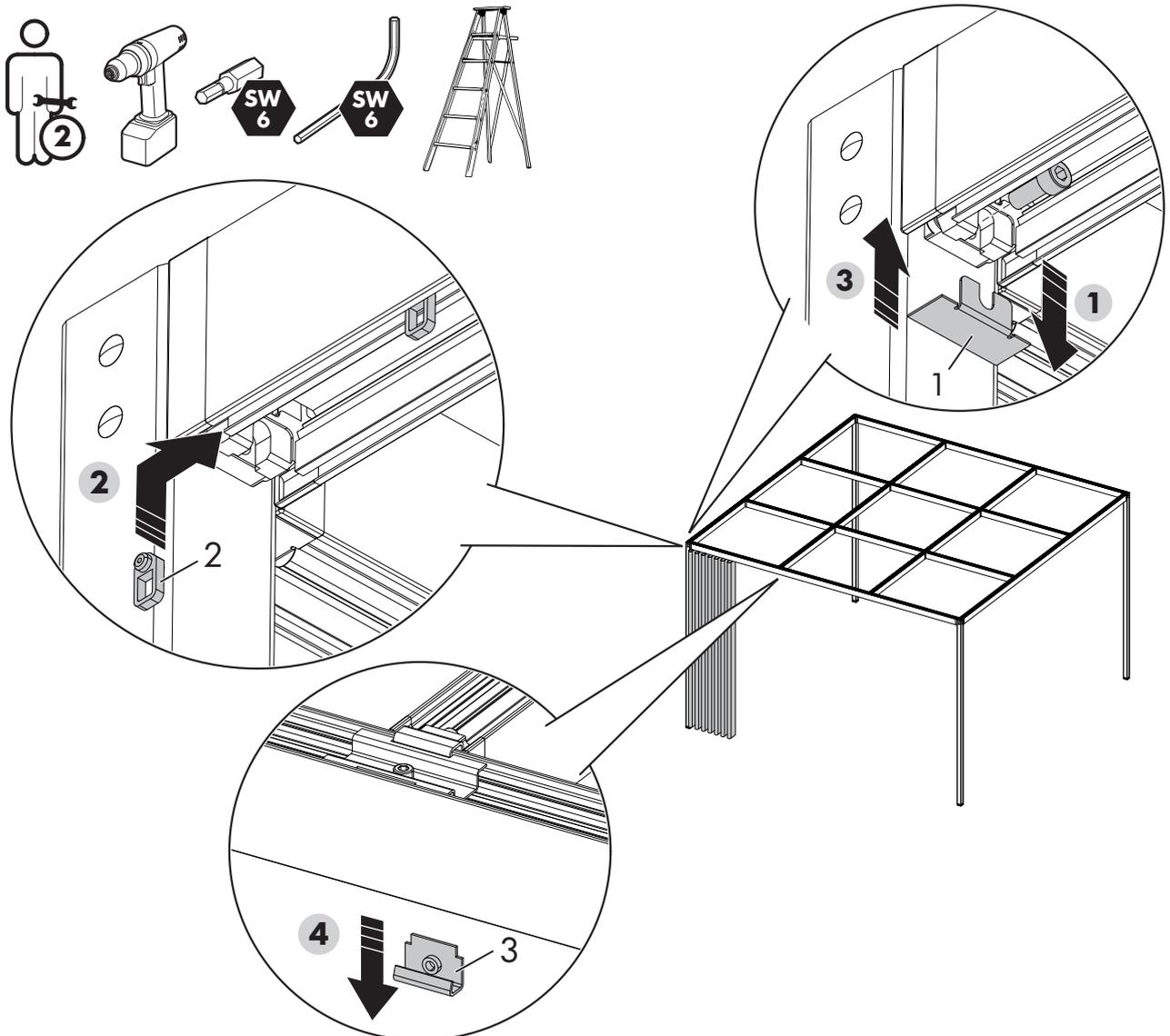
5.6.5 Partition for space formation

Sealed rooms can be formed in one structure by use of partitions.
Substructure uprights must be fitted at the intersection points.



5.7 Curtain

1. To hang a curtain, remove the cover [1] below the profile.
2. Guide rollers [2] (or glides) in front of the upright into the groove.
3. Fit cover [1] and retighten the screw (10 Nm).
4. Remove the lower fastening lugs [3] in the area of use of the curtain.



5.8 Frame

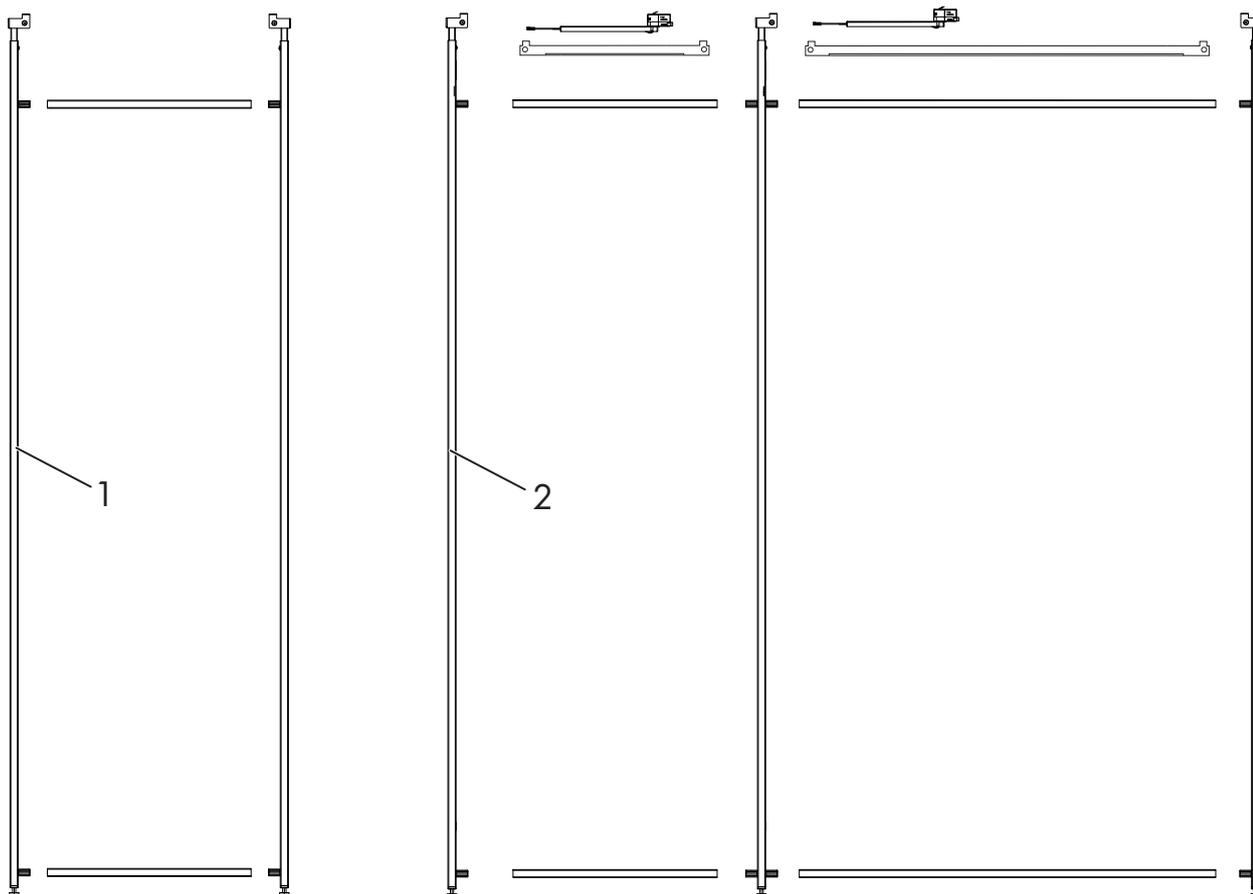
⚠ WARNING

Risk of injury from falling goods or merchandise supports

The system can fail if the maximum permissible load of the merchandise support is exceeded.

- ▶ Observe the maximum load values of the individual merchandise supports.
- ▶ Do not exceed the maximum load of 120 kg per upright.
- ▶ Do not stand on the frames and merchandise supports.

Uprights can be assembled into single or multi-axis frames that can be electrified or non-electrified.

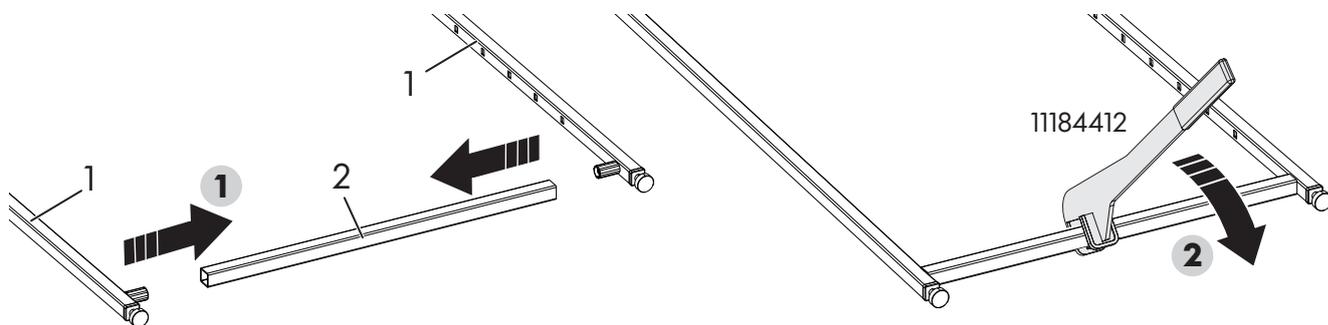


- 1 Single-axis frame, non-electrified
- 2 Twin-axis frame, electrified

5.8.1 Frame assembly

i Assemble uprights and connecting tubes on the ground and then erect.
For multi-axis frames, assemble one axis, erect and then attach the other axes in the erected condition.

1. Join connecting tubes [1] together with uprights [2].
2. Rotate connecting tubes through 45° using the assembly tool 11184412 and then position cleanly.



5.8.2 Fitting the frame at the profile

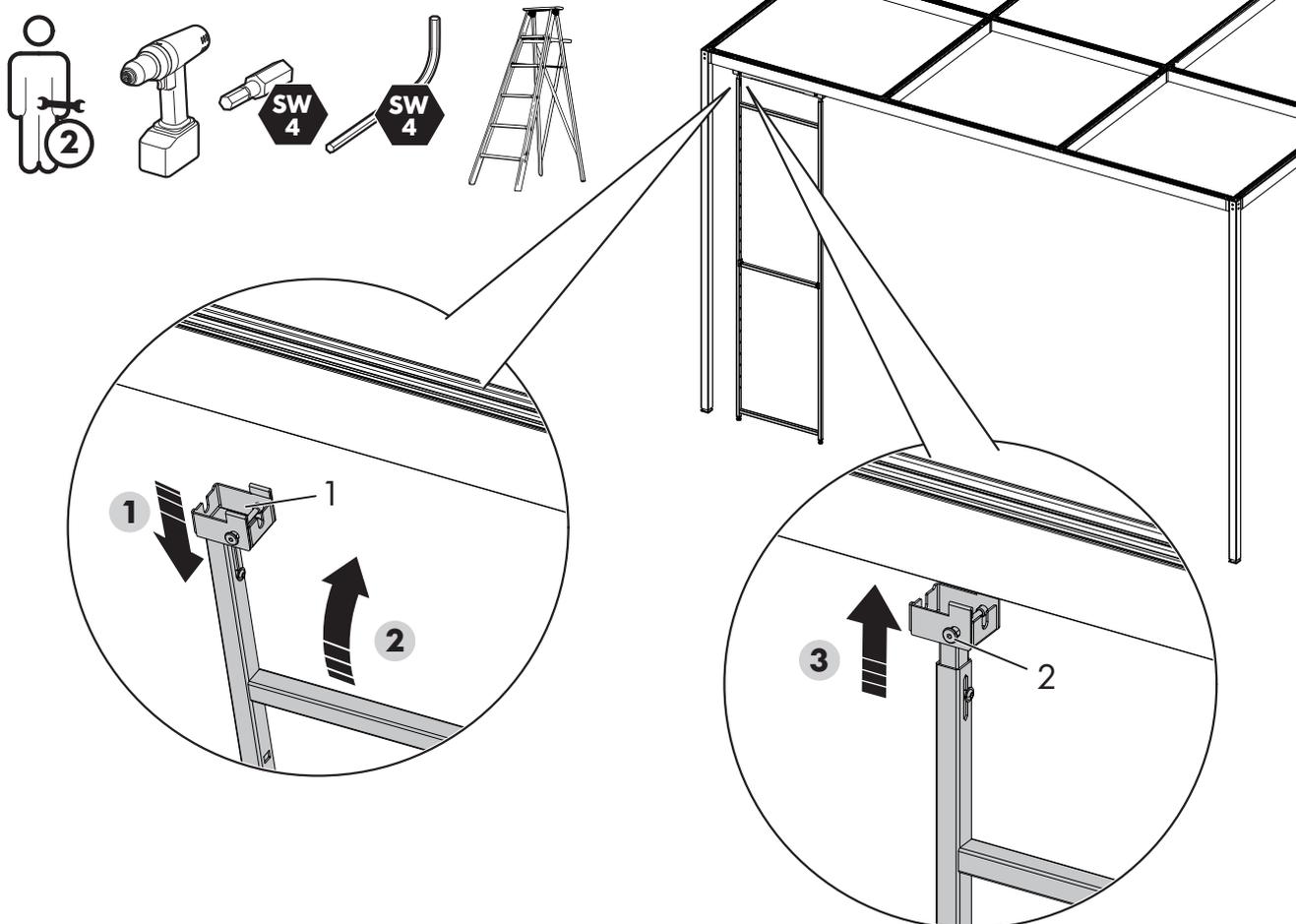
⚠ WARNING

Risk of injury from falling frame

During assembly, the frame could fall over at any time.

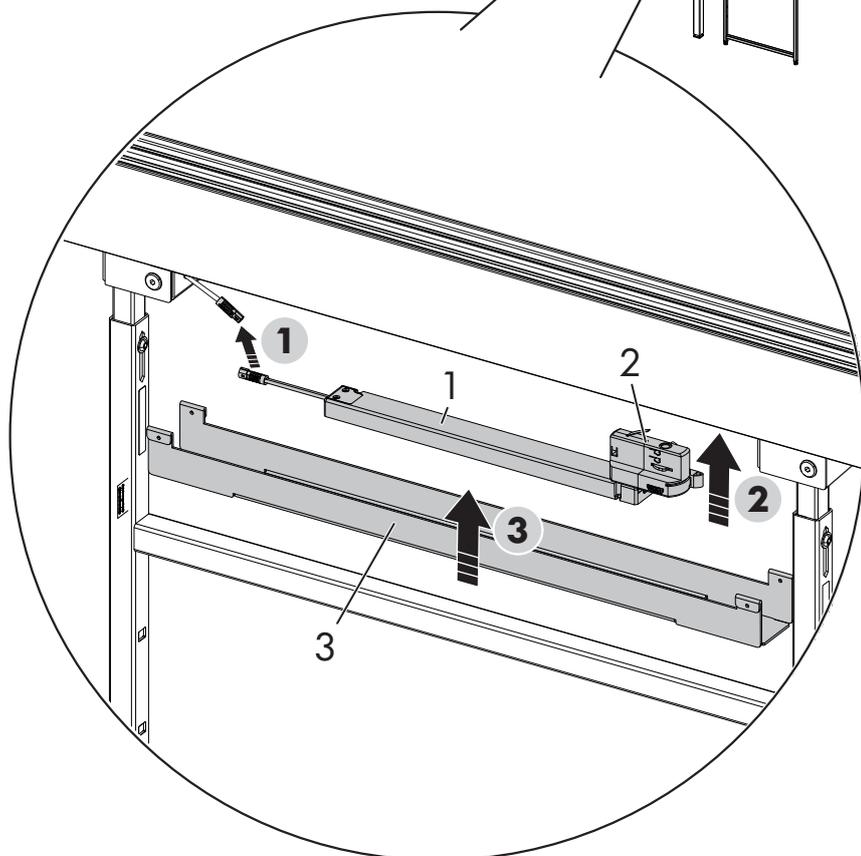
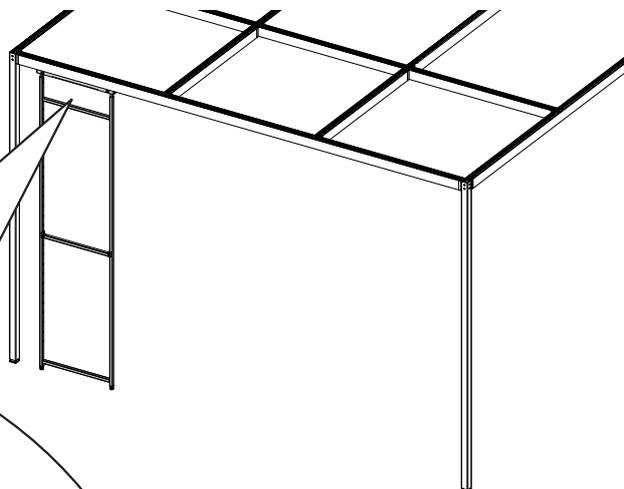
- ▶ The frame must be held firmly during assembly.

1. Push the clipping fitting [1] downwards.
2. Position the frame under the profile and align vertically.
3. Push the fitting into the profile and tighten all screws [2] (5 Nm).



5.8.3 Electrification

1. To electrify a frame, connect a converter outputting 24 V DC [1] at the upright.
2. Insert the power track adapter [2] of the converter from below into the groove on the power track. In doing so, also observe the adapter manufacturer's instruction (maker: Global).
3. Fit the cover [3] for the converter from below and screw on.

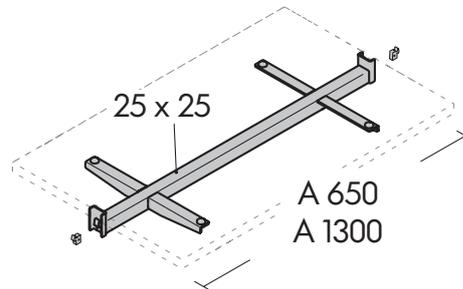


6 Merchandise supports and accessories

6.1 Support frame for shelf

The support frames are used to install glass and wooden shelves. They are suspended between the frames using shelf supports.

6.1.1 Non-electrified support frame



Drawing number:

704-278 Glass shelf 1290 mm

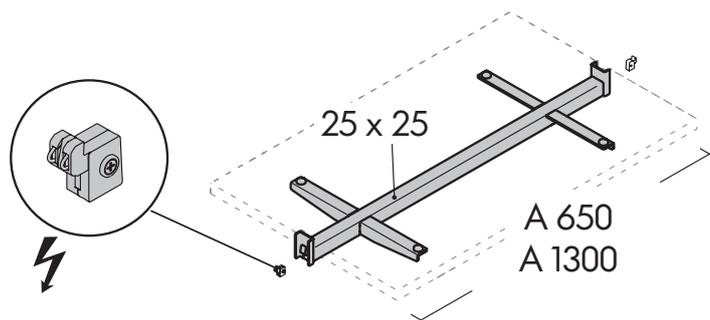
704-279 Glass shelf 640 mm

704-280 Wooden shelf 1290 mm

704-281 Wooden shelf 640 mm

6.1.2 Electrified support frame

The shelf support set consists of two supports, of which one of them is used for drawing power. A 5 W/10 W LED light is built into the electrified support frame. The power take-up is on the left side.



Drawing number:

704-278 Glass shelf 1290 mm

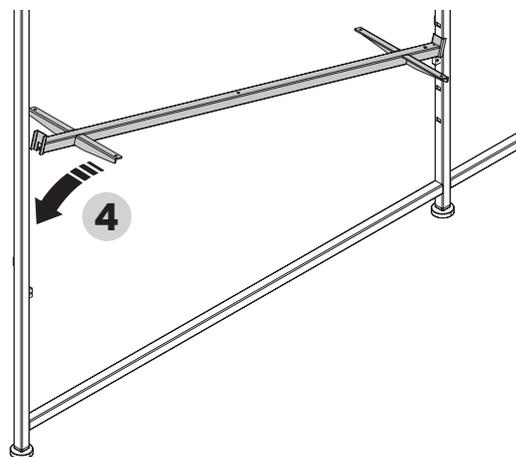
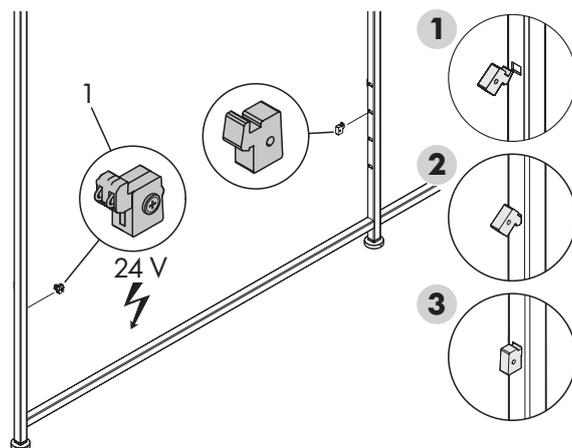
704-279 Glass shelf 640 mm

704-280 Wooden shelf 1290 mm

704-281 Wooden shelf 640 mm

6.1.3 Fitting the support frame

i When using the electrified version, attention must be paid to the position of the electrified shelf support **[1]** on the shelf frame. The default position is always on the left-hand side.



Production drawings are available to download at www.visplay.com.

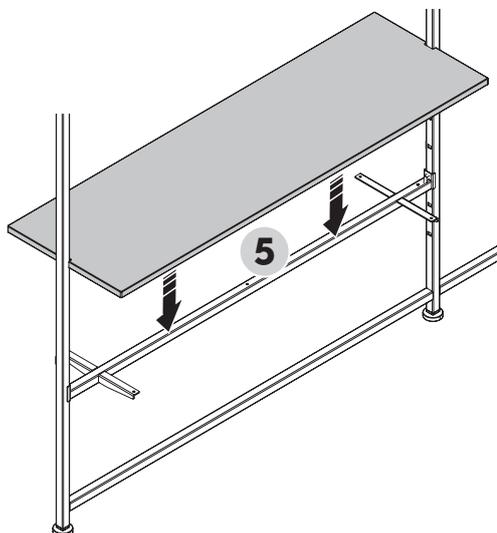
Drawing number:

1000264 Glass shelf 1290 mm

1000265 Glass shelf 640 mm

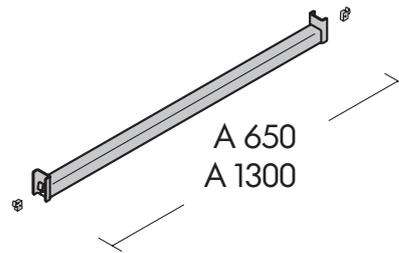
1000266 Wooden shelf 1290 mm

1000267 Wooden shelf 640 mm



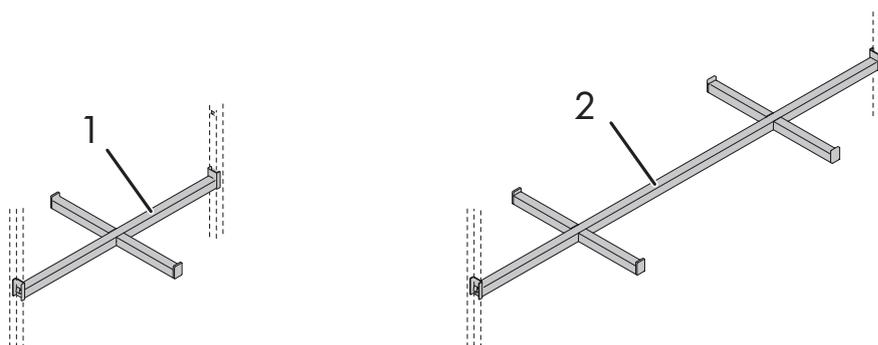
6.2 Hanging rail

The hanging rail is suspended between the frames using shelf supports.



6.3 Hanging rail with front arms

The hanging rail is suspended between the frames using shelf supports.

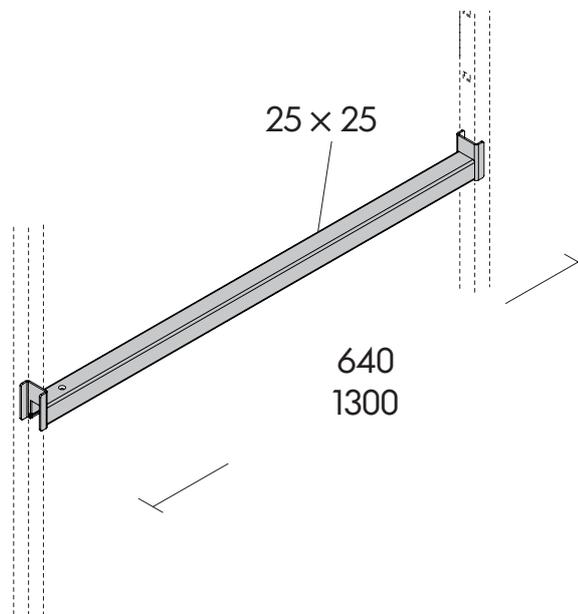


The hanging rails are available in the following configurations:

- Hanging rail with one front arm on both sides for 650 mm axis **[1]**
- Hanging rail with two front arms on both sides for 1300 mm axis **[2]**

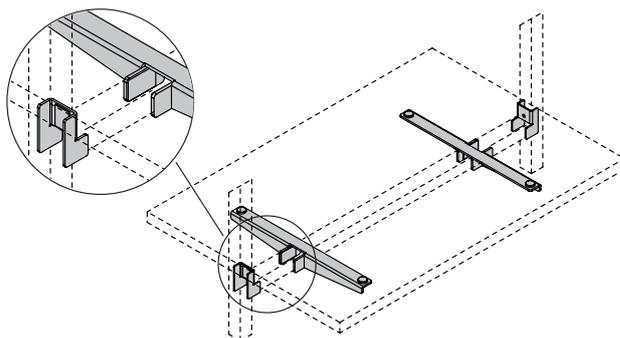
6.4 LED suspension light

The LED suspension light is suspended between the frames.



6.5 Plug-in shelf brackets

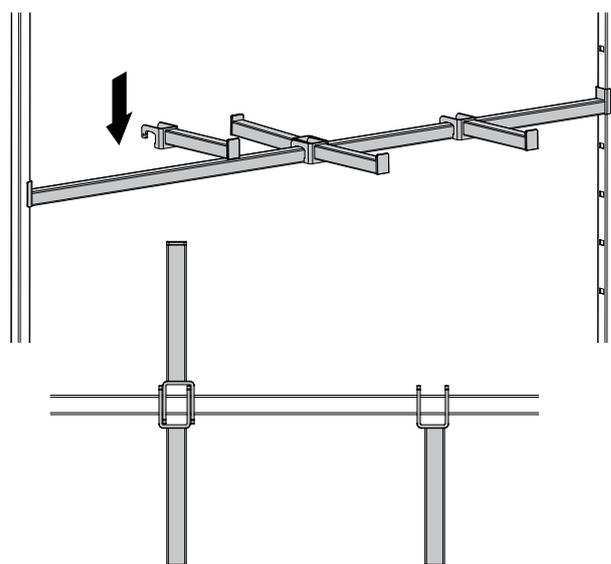
The plug-in shelf brackets are plugged in using a connecting tube or the fitting tube for panel holders.



6.6 Front arm, 25x25 L180

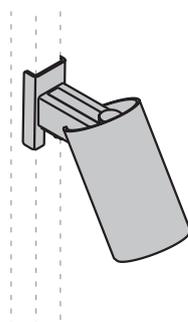
NOTE

- ▶ To avoid sloping due to a lopsided load, it is recommended that you ensure the load is approximately symmetrical during use.



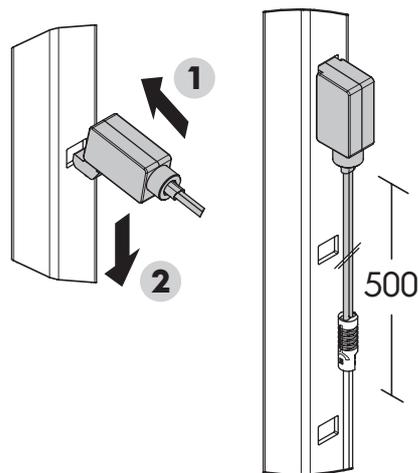
6.7 LED spotlight

The LED spotlight is plugged into the grid holes on the electrified upright.



6.8 Single power adapter for connecting various consumers

The power take-up can only be fitted to an electrified upright. Once inserted, the adapter must be locked into place by pushing it down.

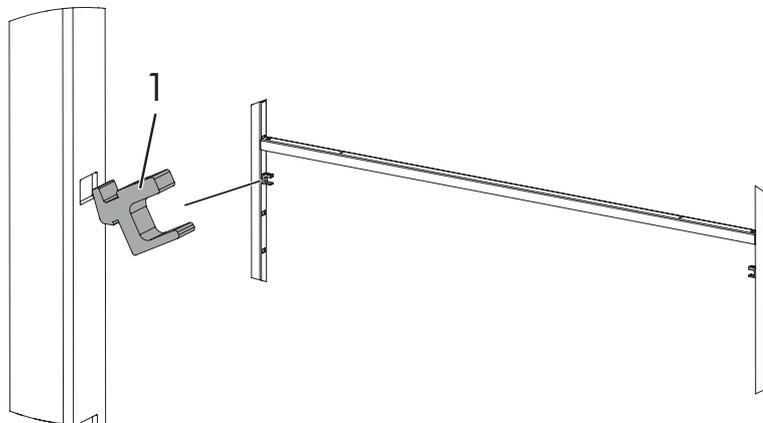


Specification	Value
Nominal voltage	24 V DC
Nominal current	max. 4 A

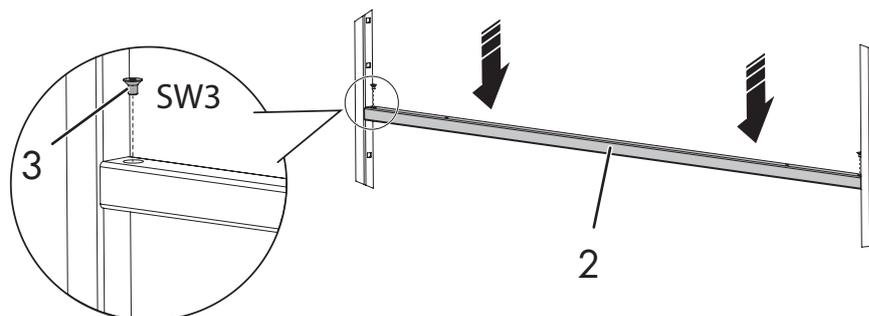
6.9 Panels

6.9.1 Fitting tube for panel holders

1. Fit the two hanging rail supports [1] at the side into the uprights.

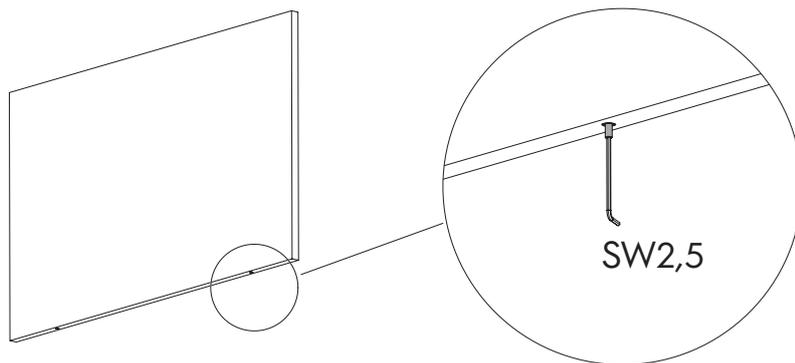


2. Place the hanging rail [2] from above using the hanging rail supports.
3. Fix using the two countersunk screws [3].

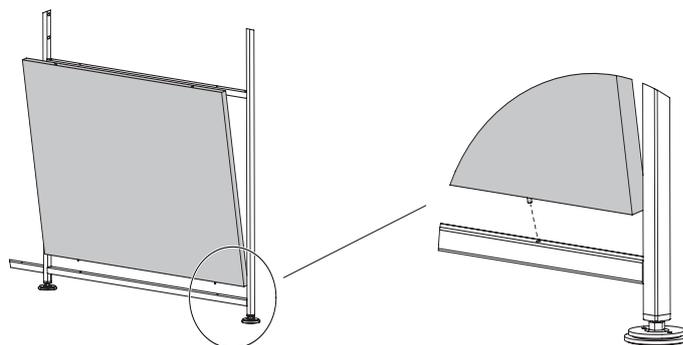


6.9.2 Fitting panels

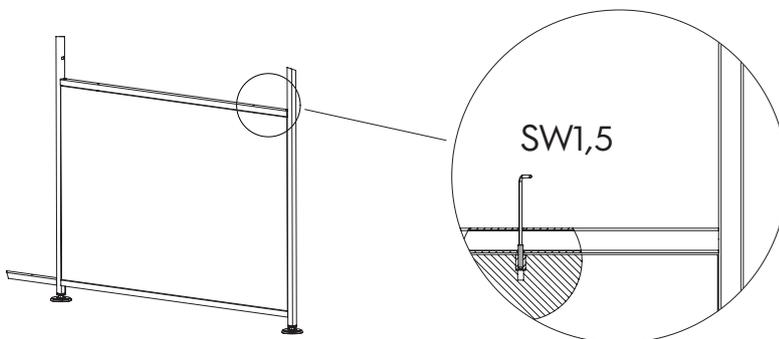
1. Unscrew the bottom two threaded pins by about 10 mm using a 2.5 mm Allen key.



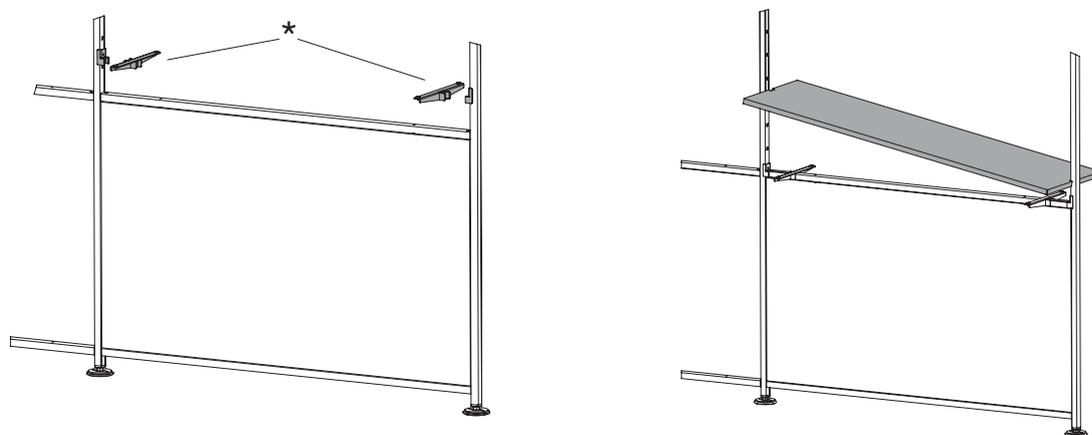
2. Guide the panels with the threaded pins at an angle into the designated bore holes.



3. Fold in the panels and unscrew the two threaded pins by about 10 mm using a 1.5 mm Allen key. The panel is thus secured.



Shelf on fitting tube



*Plug-in shelf brackets (702758)

7 General information

7.1 Cleaning

Dust can accumulate and furniture parts can become dirty during use. With regular cleaning and care, the product will last a long time.

1. Disconnect the power plug from the socket.
2. Remove all items from the storage areas.
3. Remove dirt carefully with a soft, dry cloth.
4. Remove stubborn dirt with a mild cleaning agent.

7.2 Storage

Store the product and its components under the following conditions:

- Do not store outdoors
- Store in a dry and dust-free location
- Do not expose to aggressive media
- Protect from sunlight
- Avoid mechanical shocks
- Storage temperature: 23 °C
- Relative humidity: 50%

7.3 Disposal

NOTE

Hazards to the environment can occur if product components are disposed of improperly.

- ▶ Ensure product components are disposed of in a proper environmental manner or through waste management specialists.
 - ▶ Send components that can be recycled for recycling.
 - ▶ Have an approved specialized disposal company dispose of electrical and electronic components.
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