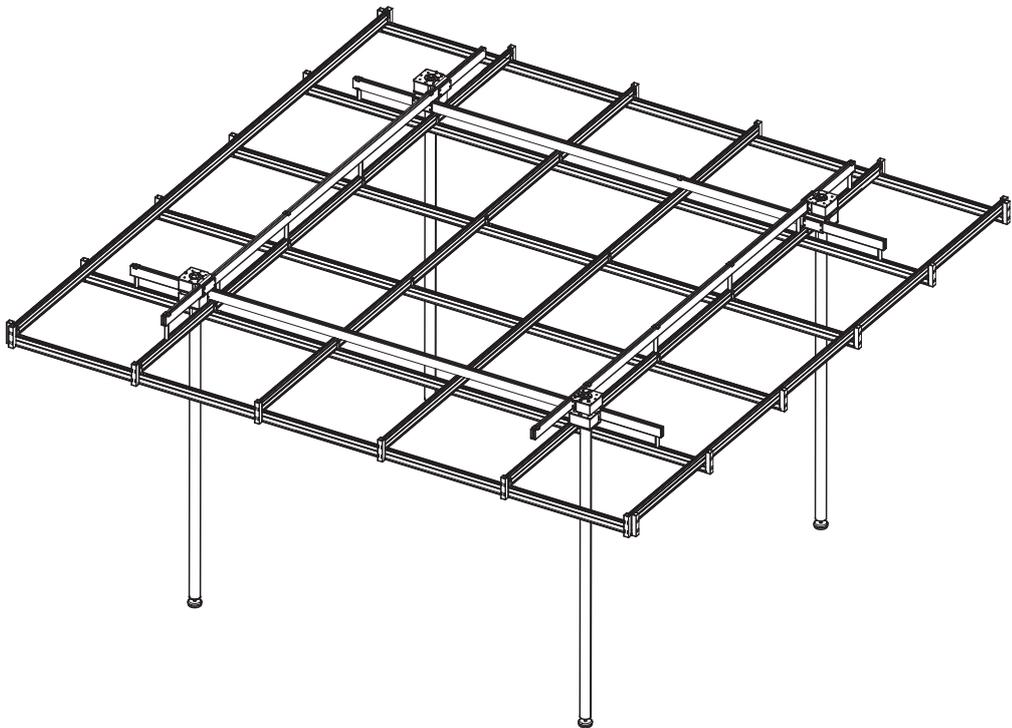


Air

Instructions for assembly and use



visplay

Content

1	General	4
1.1	Hazard levels indicated by warning notices	4
1.2	Explanation of symbols	5
1.3	Intended use	5
1.4	General safety	6
2	Product description	7
3	Delivery	8
3.1	Unpacking	8
3.2	Scope of delivery	9
4	Assembly	10
4.1	Mounting aids and tools	10
4.2	Base frame	10
4.3	Positioning grid	15
4.4	Multi-Lane profile	16
5	Operation	21
5.1	Electrical connection	21
6	Accessories	22
6.1	Curtain rail.....	22
6.2	Other accessories.....	22
7	Technical data	23
8	Weight loads	23
9	General information	24
9.1	Cleaning	24
9.2	Storage	24
9.3	Disposal	24

1 General

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

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 Air 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 Air system may only be used in dry indoor areas.
- The Air system may be used solely in compliance with the permissible load values (see Seite 23).

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

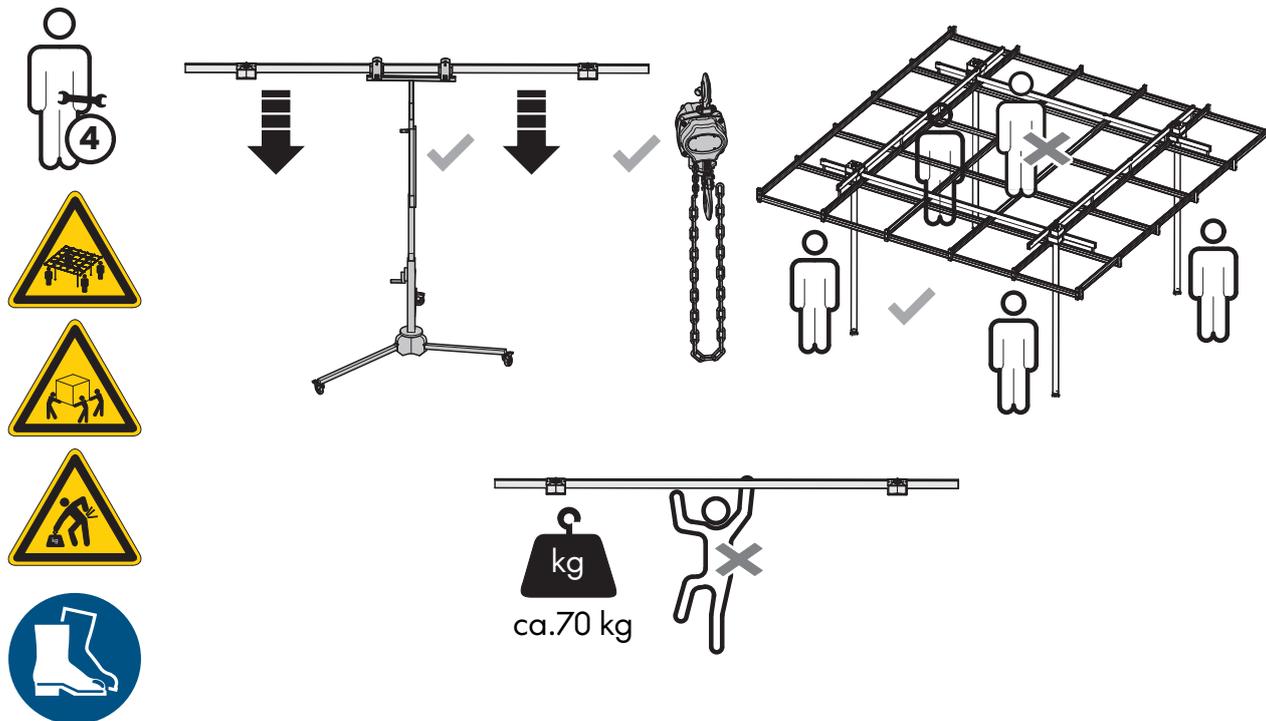
Carefully read the following safety instructions and information for safe operation before starting work.
Familiarise yourself with all the functions of the system.

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

⚠ CAUTION

Trip hazard

- ▶ Do not lay mains power leads and cables in thoroughfares.



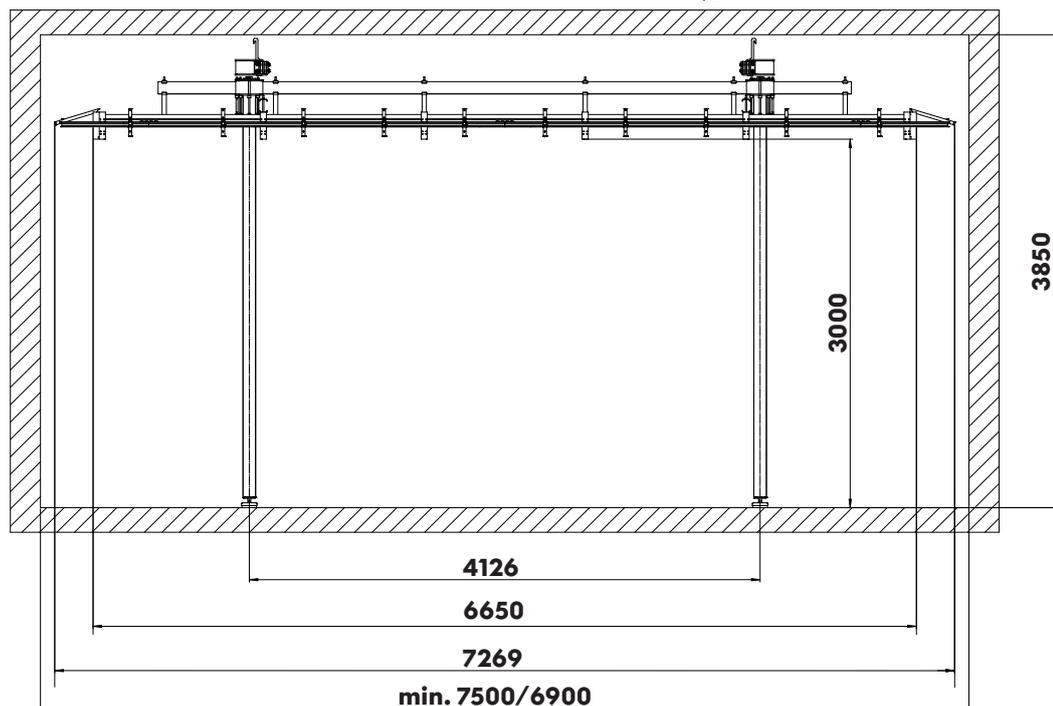
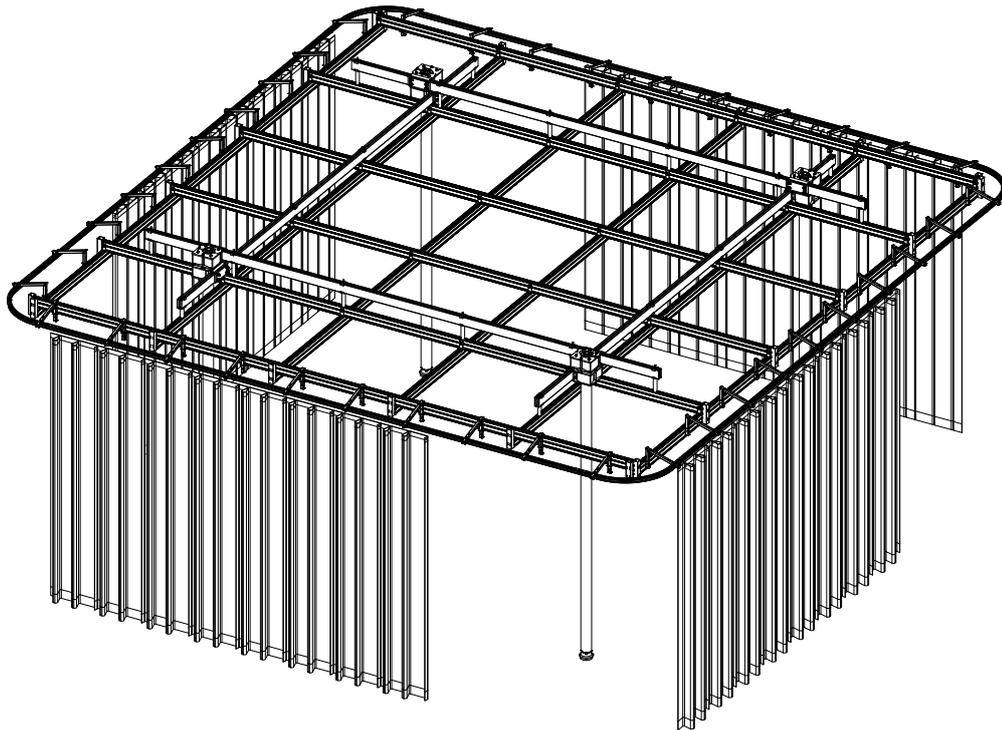
2 Product description

Air is an electrified, freestanding support system which is completely independent of walls and ceilings. The system can be used individually or as a grid. As a result, Air 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 merchandise supports, lights, screens and digital devices. Air can be used both as a temporary and long-term structure.

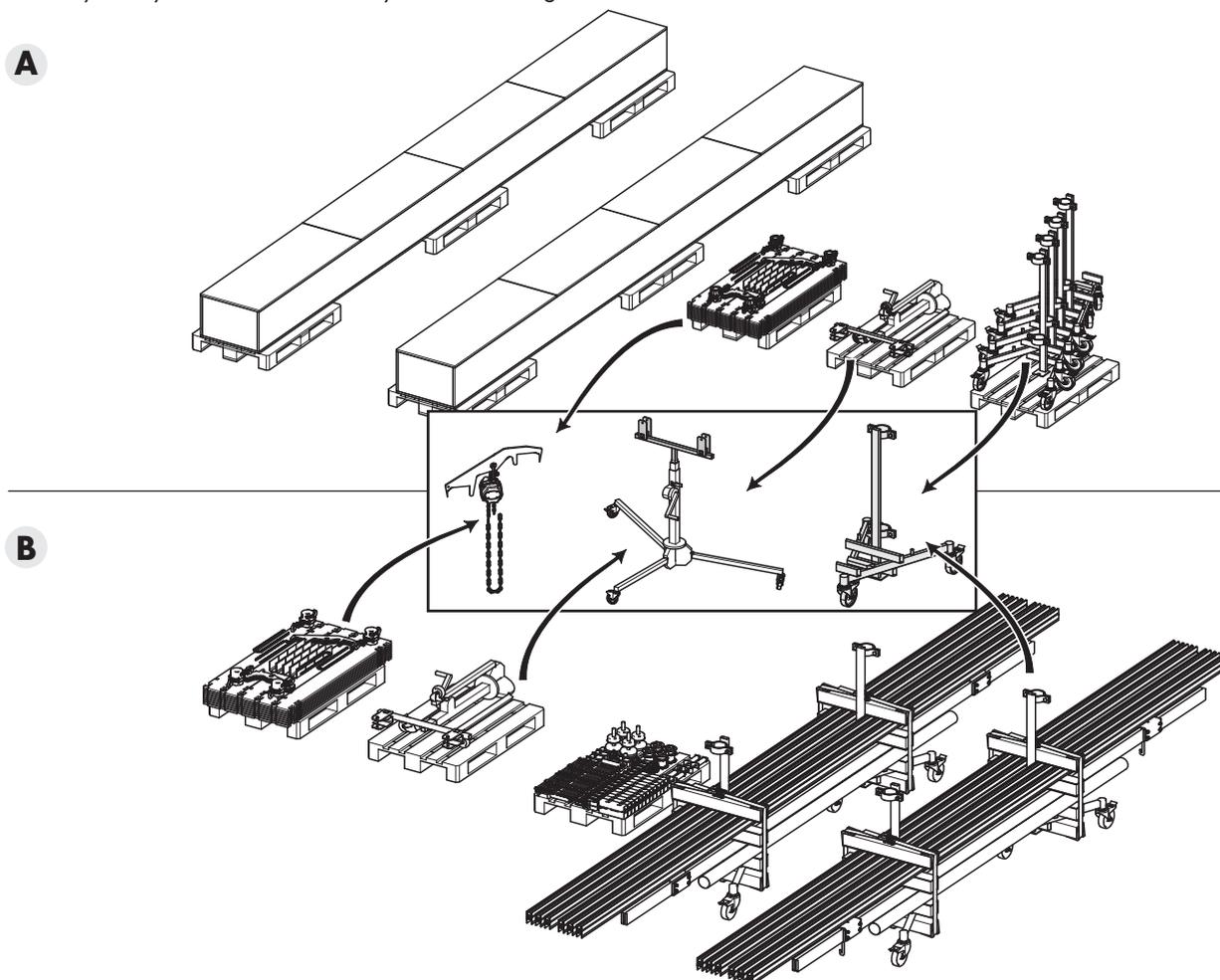
i All parts are supplied pre-assembled.

i The available space must be checked before installation.
The requirements when using a curtain are at least 7,500 mm x 3,850 mm x 7,500 mm (WxHxD).
Without a curtain, the space must measure at least 6,900 mm x 3,850 mm x 6,900 mm (WxHxD).



3 Delivery

There are two delivery options for the Air system (**A** and **B**).
The assembly trolleys are used for delivery and as a fitting aid.



3.1 Unpacking

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

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

⚠ CAUTION

Risk of injury from falling or tipping parts.

- ▶ The unit must be unloaded by two people.
- ▶ Carefully unload the Air system from the pallet.

1. Remove the transport lock.
2. Remove all loose parts from the pallet.
3. Carefully unload the system from the pallet.

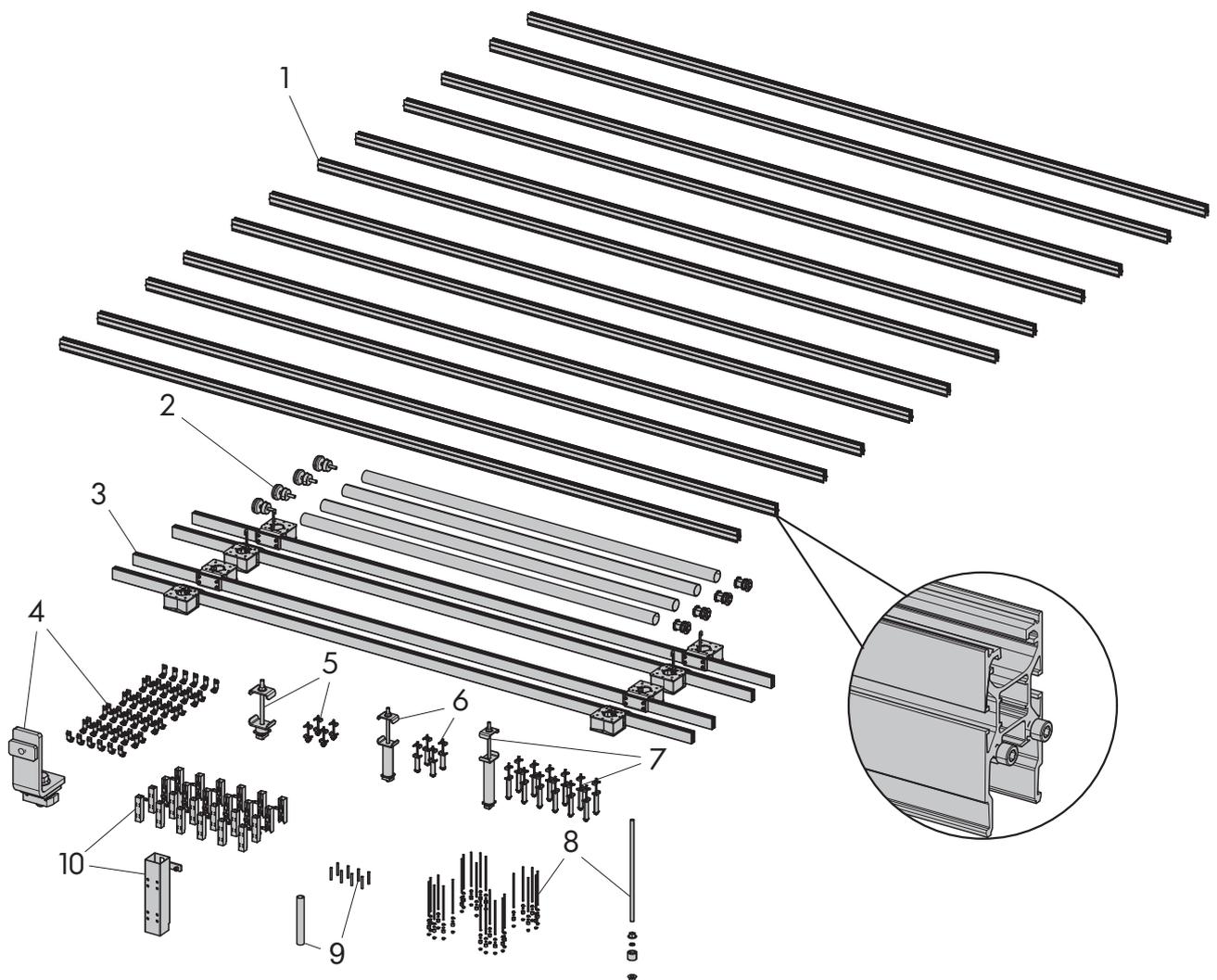
NOTE

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.

3.2 Scope of delivery

 Check the material for integrity.



- | | |
|---|--|
| 1 Multi-Lane profile (12 items) | 2 Filling piece, upright and adjustable foot (4 items) |
| 3 Support (4 items) | 4 Mounting bracket (60 items) |
| 5 Connector, height 25 (4 items) | 6 Connector, height 125 (4 items) |
| 7 Connector, height 172 (12 items) | 8 Threaded rod with O-ring, spacer and nuts (24-item set) |
| 9 Spacer tube (8 items) | 10 Pipe end (24 items) |

4 Assembly

4.1 Mounting aids and tools

The following aids and tools are required to install the Air.

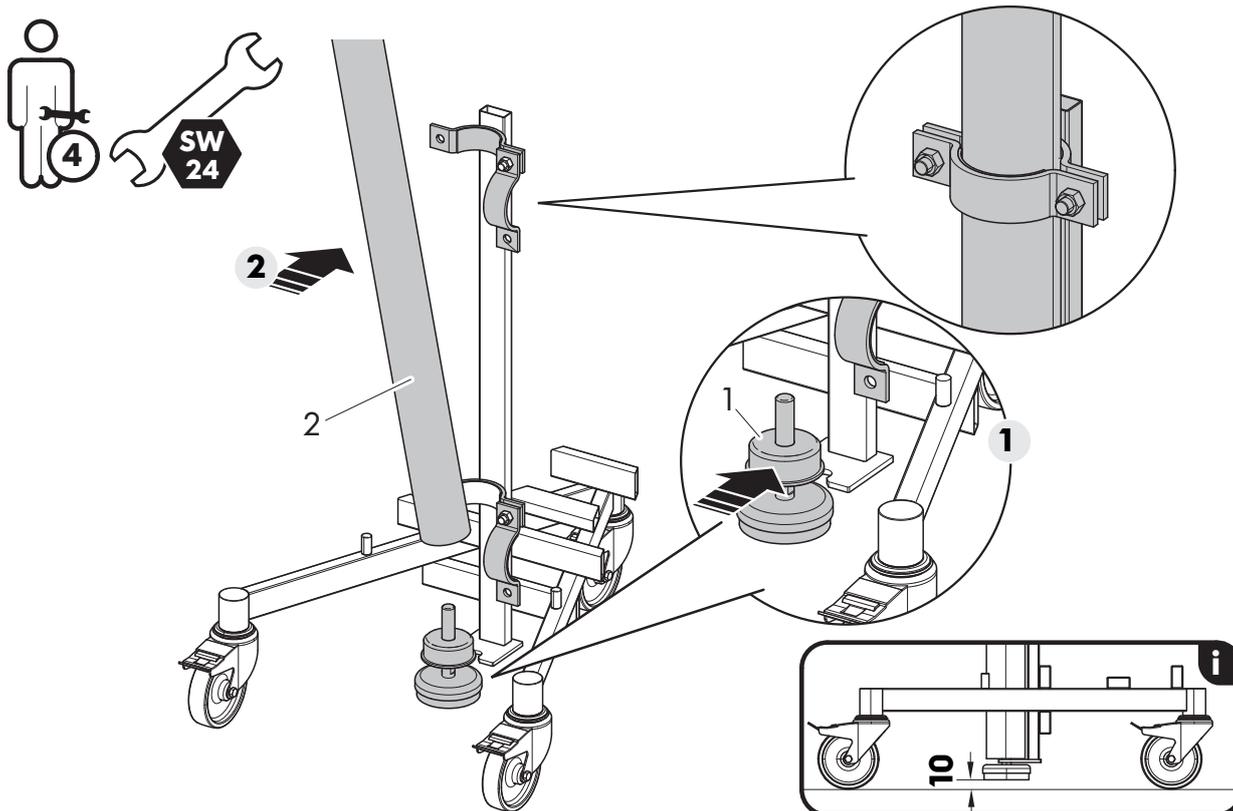
- | | |
|---|--|
| 1 Gantry ladders (2 at least) | 2 Rubber mallet |
| 3 Tape measure | 4 Spirit level |
| 5 Open-end wrench SW24 | 6 Open-end wrench SW19 |
| 7 Open-end wrench SW15 and nuts SW15 | 8 Impact wrench |
| 9 Torque wrench, min. 80 Nm | 10 Long Allen key SW5 |
| 11 Allen key SW10 | 12 Attachment for impact wrench hexagon socket SW10 |

4.2 Base frame

4.2.1 Mounting the upright in the assembly trolley

i The adjustable feet must be at least 10 mm above the floor in the assembly trolleys.

1. Mount the adjustable feet **[1]** in the four assembly trolleys **1**.
2. Mount the uprights **[2]** in the four assembly trolleys **2**.



4.2.2 Mounting the supports in the lifting device

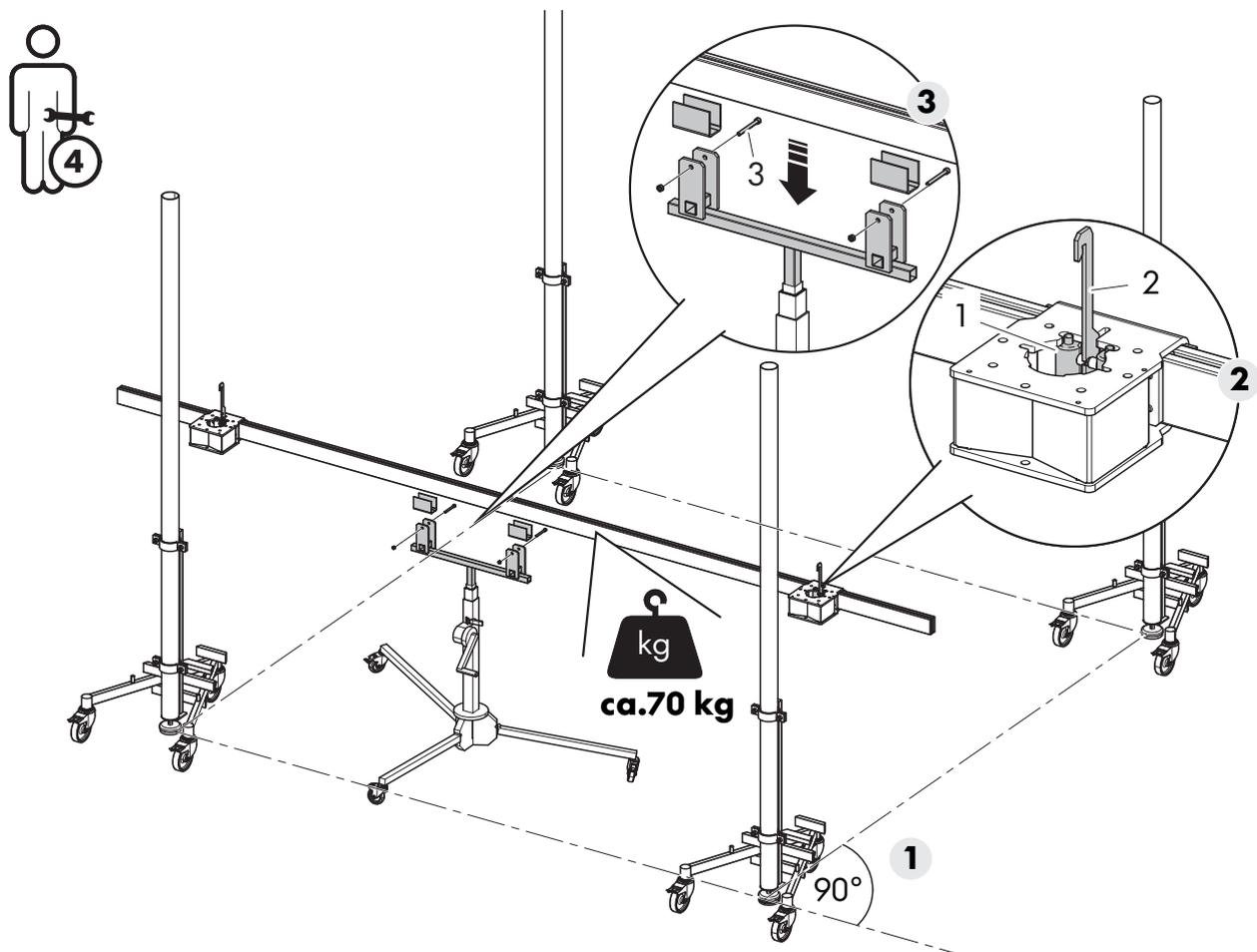
⚠ WARNING

Risk of injury from falling supports

If the supports fall down, this may result in serious injury.

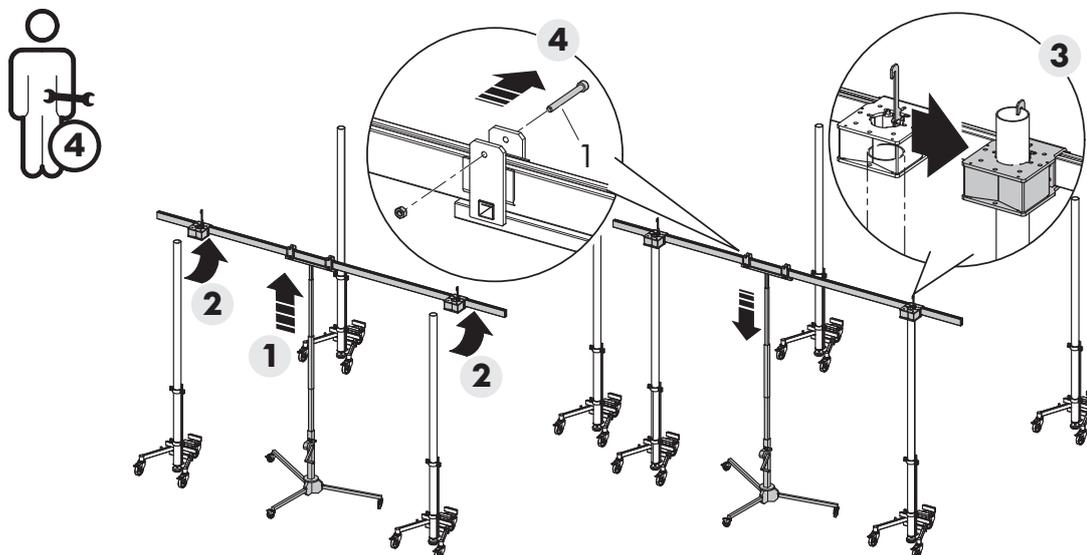
- ▶ Do not stand or pass under the suspended load.

1. Position the assembly trolleys at right angles to the support **1**.
2. Insert supports with long hook section **[2]** into the uprights **2**.
3. Loosen the cylinder screws, but do not unscrew them completely **2**.
4. Mount bolts **[1]** with the maximum spacing between them **2**.
5. Position the support in the centre of the lifting device and secure it using the locking screw **[3]** **3**.



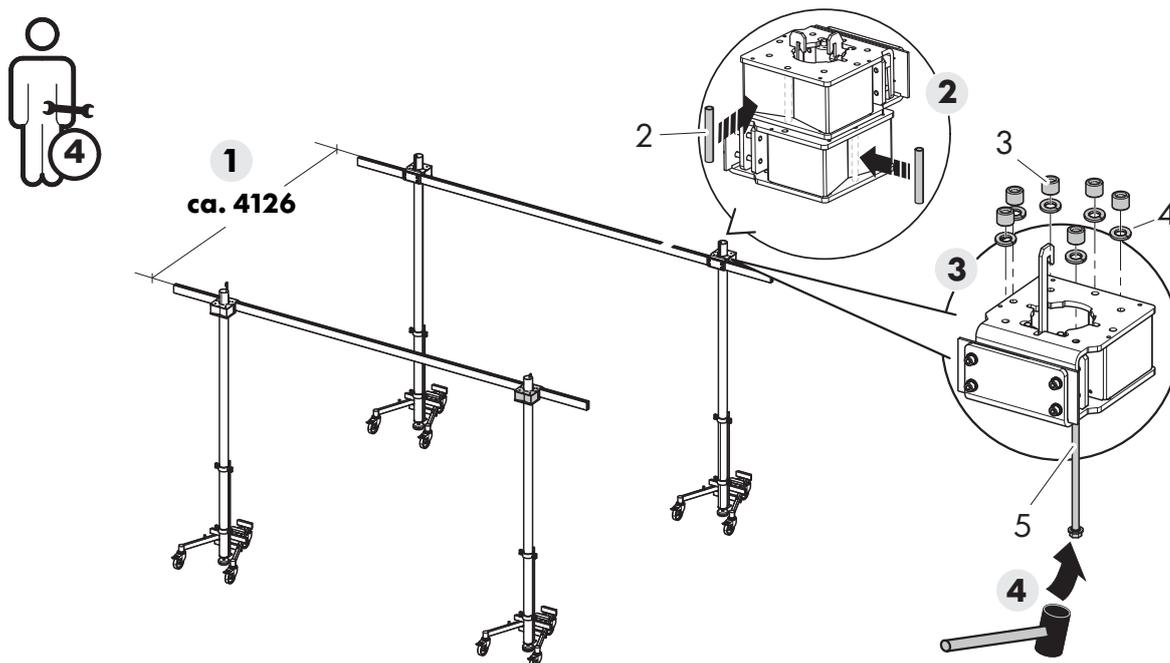
4.2.3 Mounting supports on uprights

1. Crank the support up using the lifting device until the support is positioned above the upright **1**.
2. Position the assembly trolley under the support **2**.
3. Slowly lower the support until it is securely inserted into the upright **3**.
4. Before lowering the lifting device, remove the locking screw [1] **4**.
5. Fit the second support in the same way as the first.

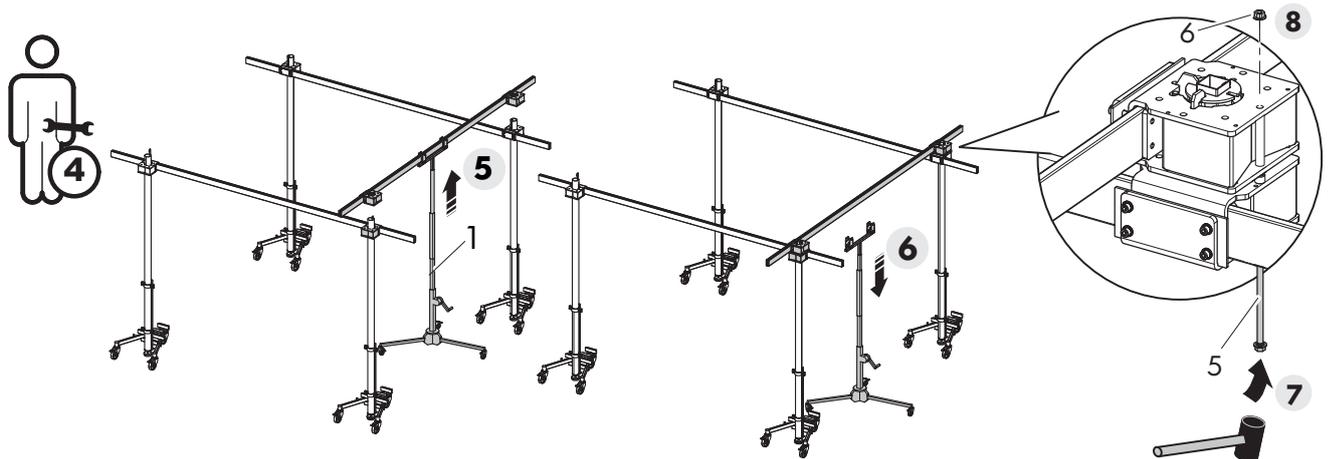


4.2.4 Connecting the support units

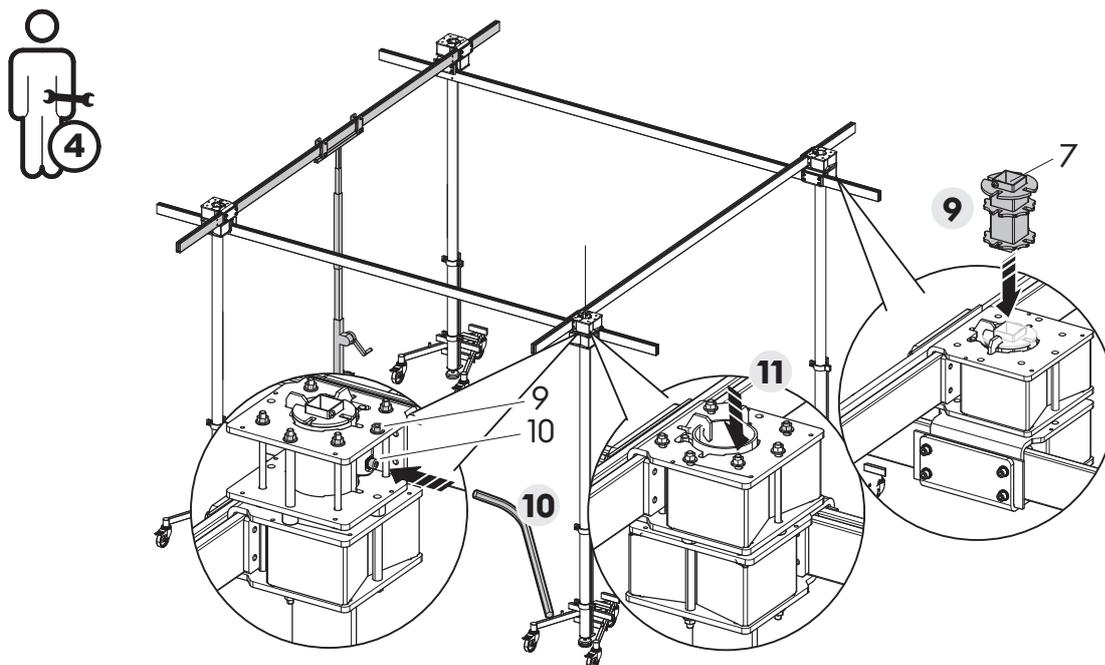
1. Position the two support units at a distance of approx. 4,126 mm **1**.
2. Insert one spacer tube [2] into each of the upper and lower supports **2**.
3. Insert spacer sleeves [3] and secure from above using O-rings [4] to prevent them from falling **3**.
4. Use a rubber hammer to tap in the threaded rods [5] on one side with the nuts **4**.



5. Crank the support up using the lifting device [1] until the support is positioned above the support units **5**.
 6. Attach the third support **6**.
- i** Ensure that the uprights are outside the support squares.
7. Align the holes with one another.
 8. Tap the threaded rod [5] through both holes **7**.
 9. Secure the threaded rod loosely with nut [6] **8**.
 10. Fit the fourth support in the same way as the third.

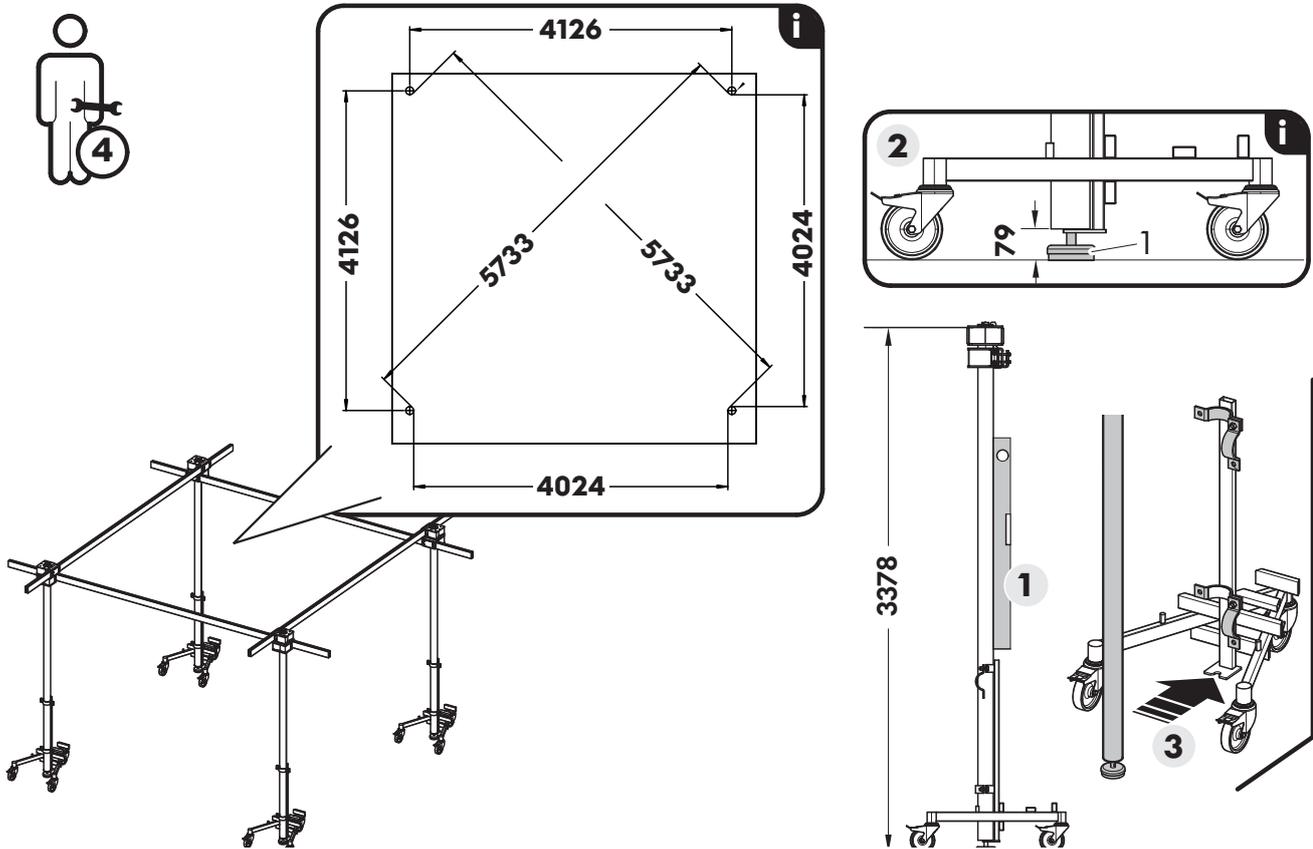


11. Insert filling pieces [7] **9**.
12. Position the uprights at the correct 90° angle.
13. Tighten the two hexagon socket screws [10] in the upper support to clamp the uprights to 80 Nm **10**.
14. Tighten the six threaded rods [9] to 80 Nm **10**.
15. Tighten the two hexagon socket screws [10] in the lower support to 80 Nm **10**.



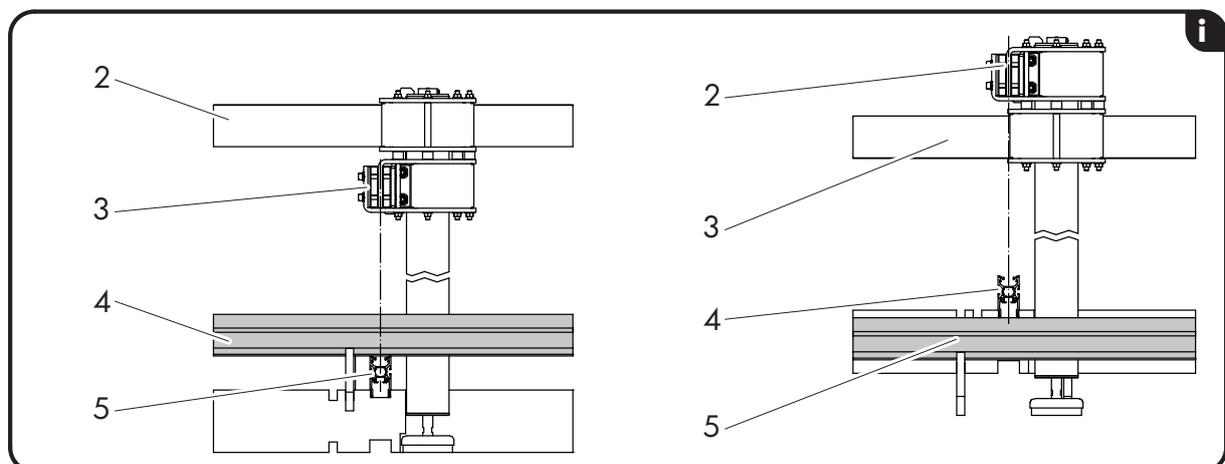
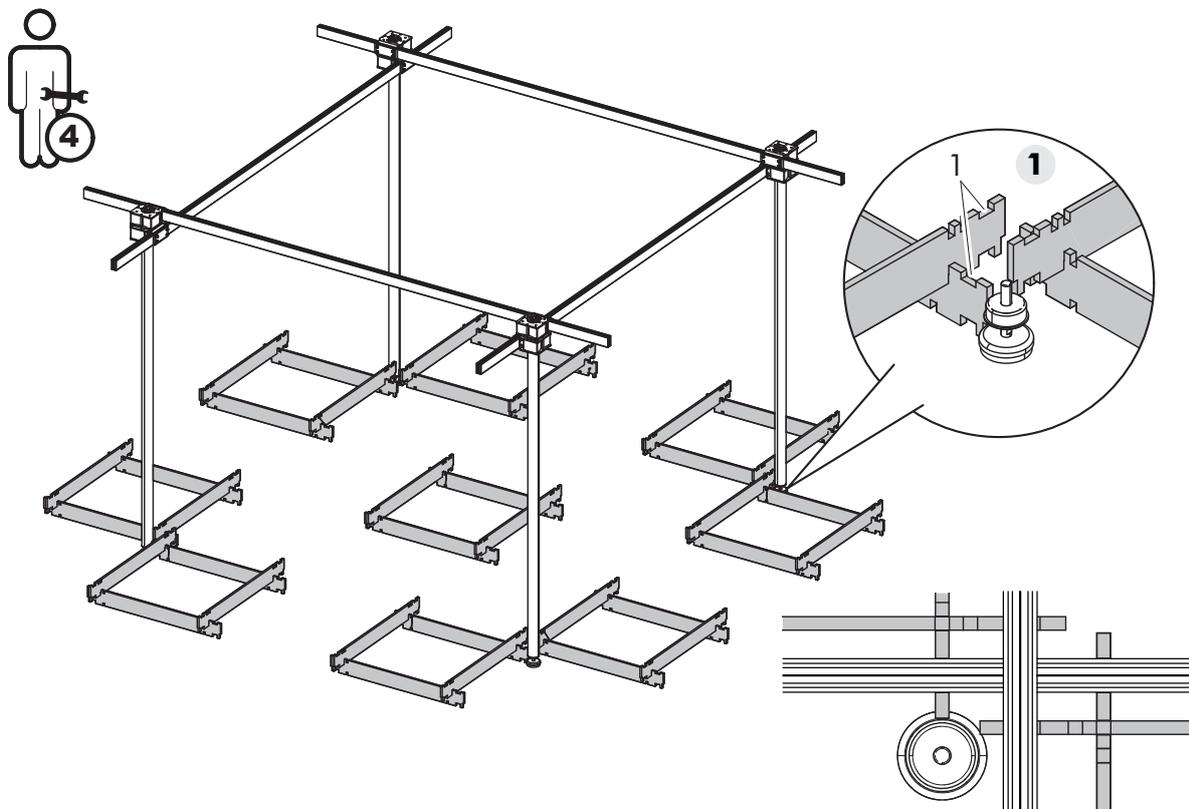
4.2.5 Setting up the Air substructure

1. Slide the Air substructure to the preferred position.
2. Check horizontal and vertical upright dimensions **1**.
3. Turn the adjustable feet **[1]** downwards until the wheels of the assembly trolley are lifted off the floor **2**.
4. Remove assembly trolley **3**.
5. Raise the Air substructure to the desired height.



4.3 Positioning grid

- i** The recess **[1]** for the Multi-Lane profile on the positioning grid section must always point upwards.
 - i** The lower positioning grid section must be positioned parallel to the upper support, and the upper positioning grid section must be positioned parallel to the lower support.
 - i** Place the positioning grids exactly as shown in the figure below.
 - i** Note the position of the Multi-Lane profile in relation to the support above it.
Upper support **[2]**, lower support **[3]**, upper Multi-Lane profile **[4]** and lower Multi-Lane profile **[5]**.
- Connecting positioning grid sections to each other **1**.



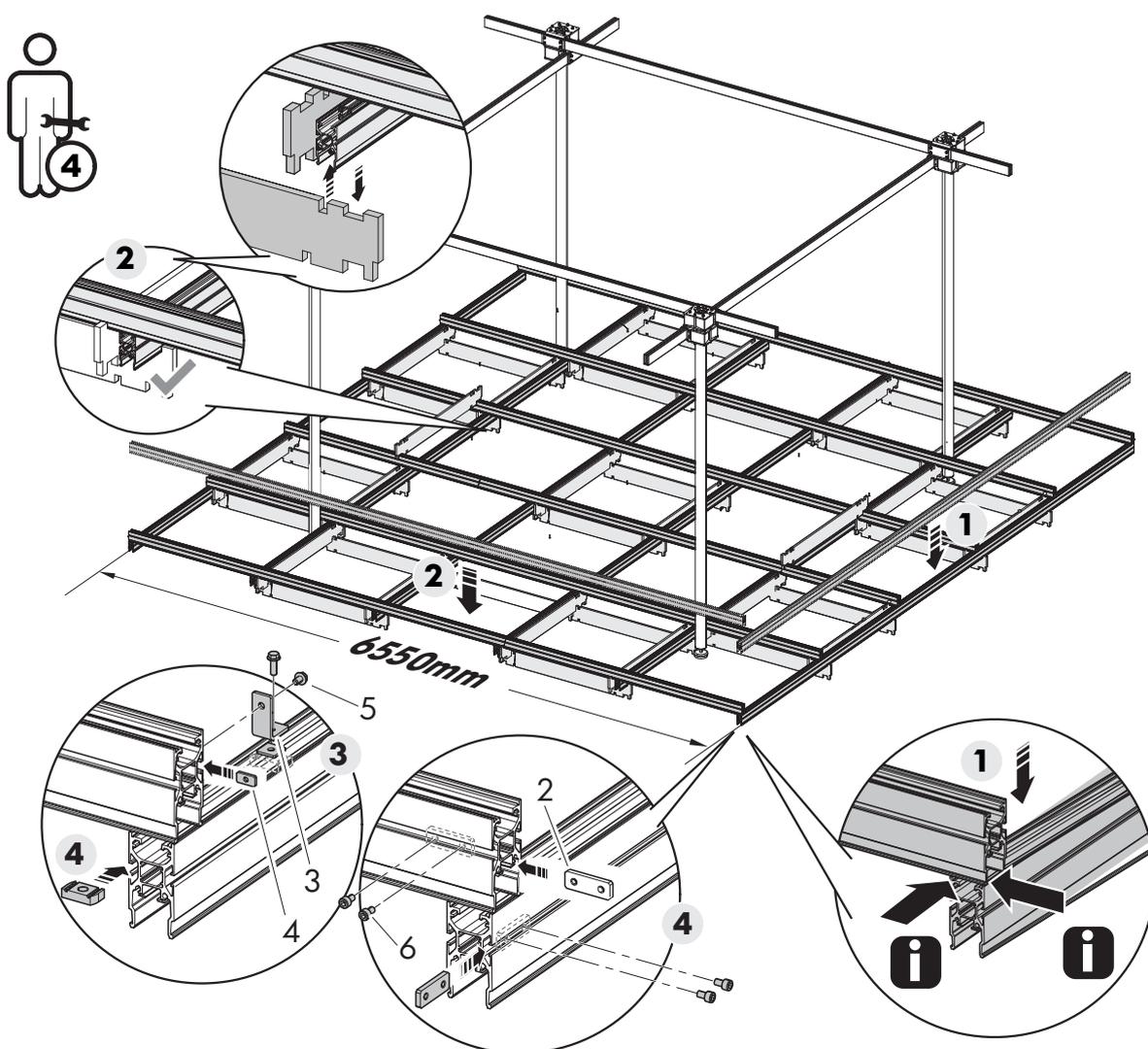
4.4 Multi-Lane profile

-  Note the position of the Multi-Lane profiles; see page 17.
-  The power strip in the Multi-Lane profile must point towards the floor.
-  Refer to page 23 for details of how to install electrified Multi-Lane profiles.

1. Place the lower Multi-Lane profiles **[1]** in the recesses of the lower positioning grids **1**.
2. Place the upper Multi-Lane profiles in the recess of the upper positioning grids **2**.
3. Check the outer dimensions of the Multi-Lane profiles (6,550 mm).

 The end faces of the Multi-Lane profiles must all be flush.

4. Insert six sliding nuts **[4]** per side into the Multi-lane profile **3**.
5. Press the mounting bracket **[3]** onto the Multi-Lane profile and tighten the screws with your fingers **4**.
6. Fit the swivel nuts **[2]** to the Multi-Lane profile **3**.
7. Tighten the screws of the sliding nuts **[5]** to 30 Nm.
8. Tighten the screws of the swivel nuts **[6]** to 80 Nm.



4.4.1 Connectors

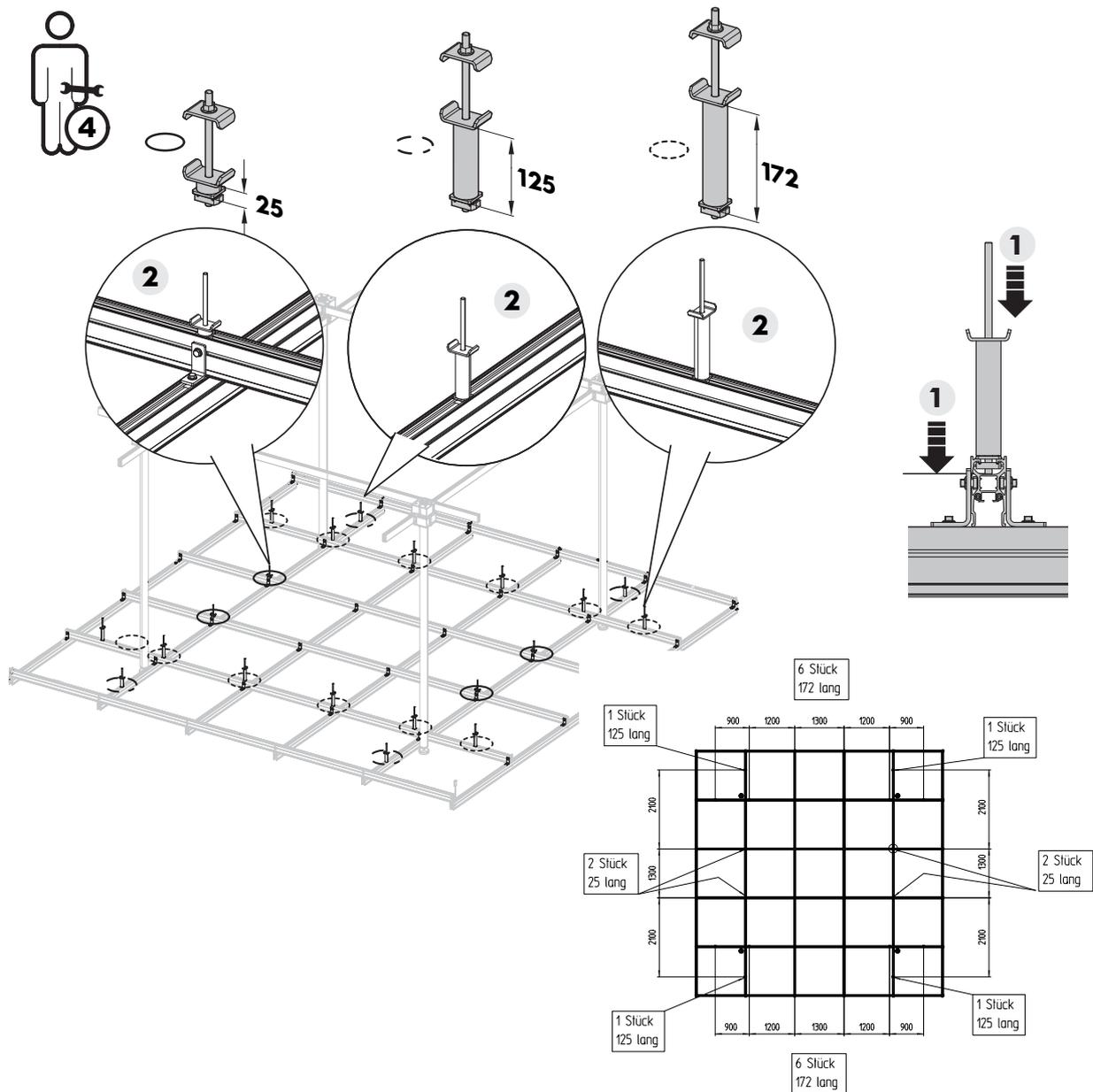
i There are three types of connectors.

1. Screw in the threaded rod by hand as far as it will go until it stops without any play **1**.

i Ensure that the swivel nut is positioned correctly.

2. Mount the connector at the specified points **2**.

i The upper U-shells must be dismantled.



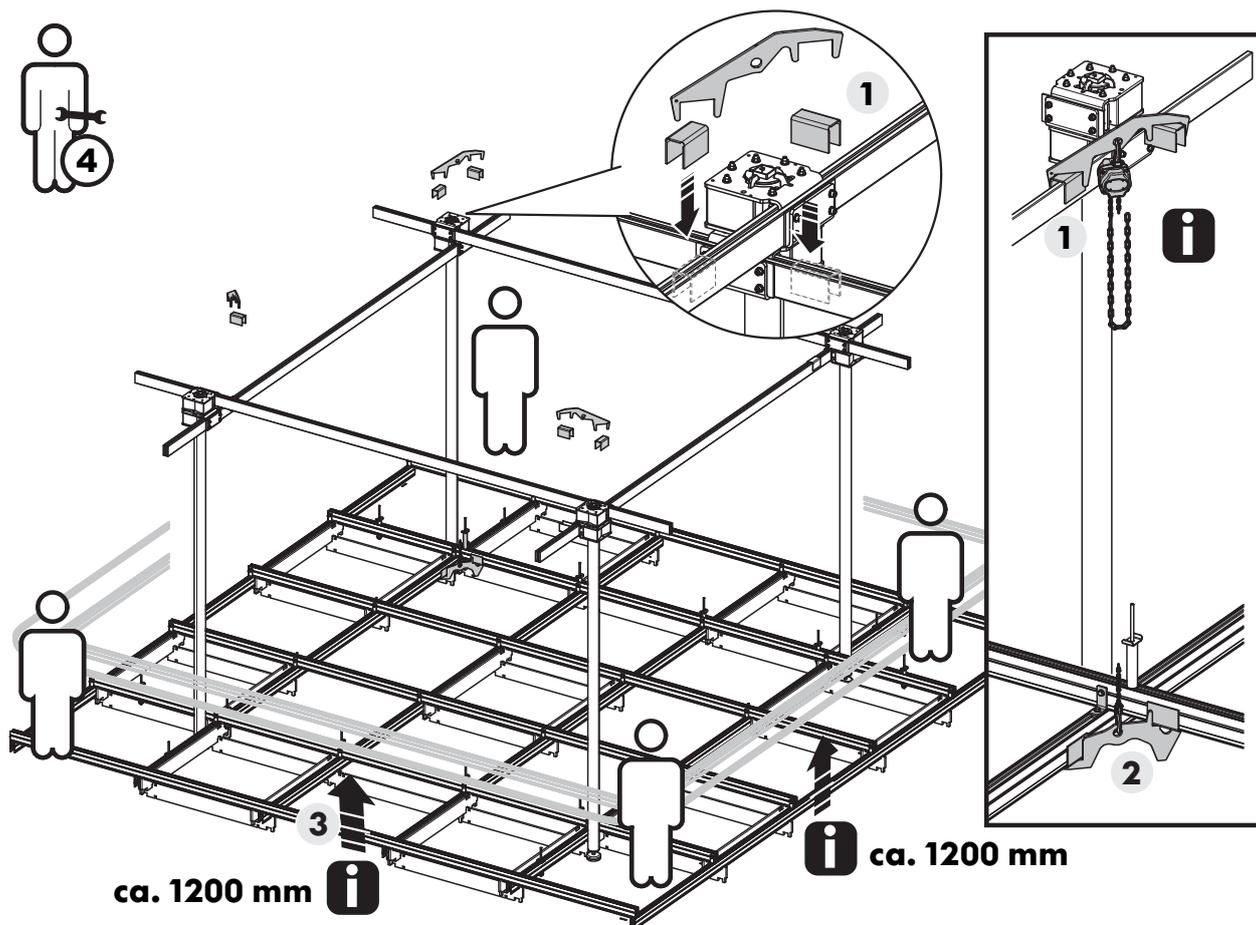
4.4.2 Pulling the Multi-Lane grid upwards

1. Hang the sheet metal crossbeam with protective profiles and chain hoist over the supports at the top **2**.
2. Hang the sheet metal crossbeams with protective profiles and hooks under the Multi-Lane profile at the bottom **1**.

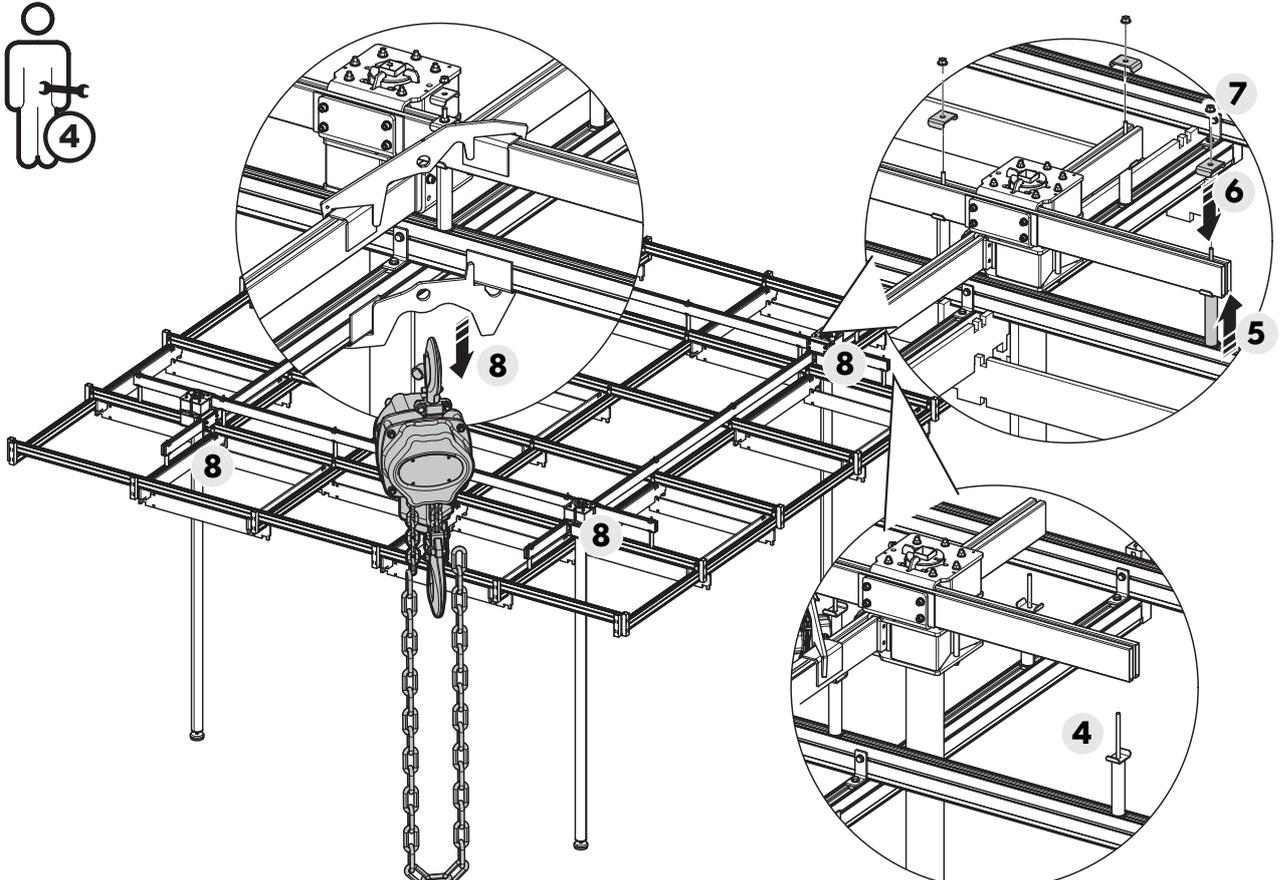
i Attach the chain hoist and accessories to all four corners of the base frame and the Multi-Lane Grid.

3. Pull the Multi-Lane Grid evenly upwards with 4 people using the chain hoist until the Multi-Lane is at a height of approx. 1,200 mm **3**.

i The next required work step can be carried out in the position approx. 1,200 mm above the floor. If these expansion stages are required (e.g., electrical connections or curtain rail).



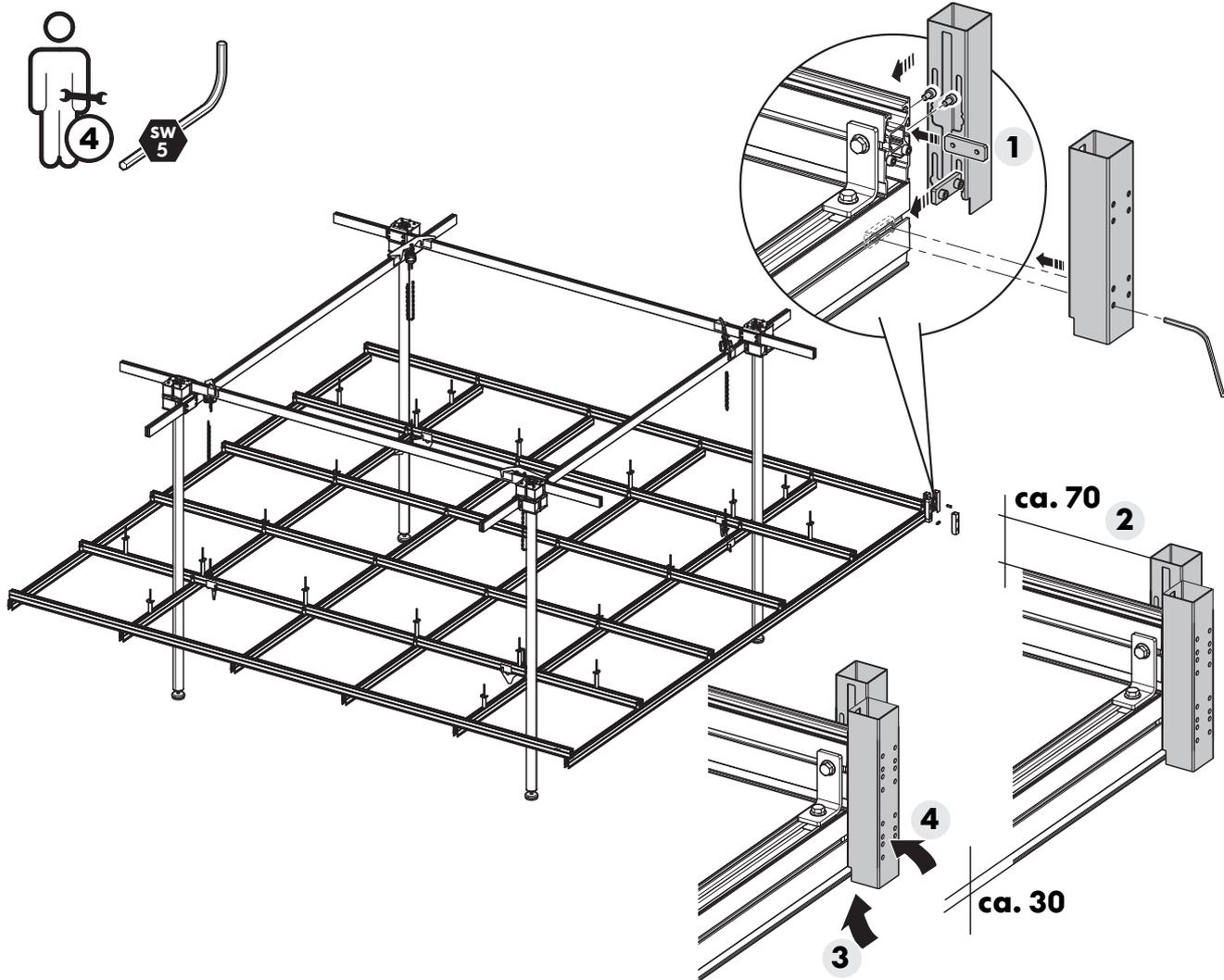
4. Mounting connection tubes (see section „4.4.3 Connection tubes“).
5. Lift the Multi-Lane Grid further upwards with four people until the threaded rods are just below the support **4**.
6. Thread the threaded rods through both supports **5**.
7. Place the U-shells on the threaded rods **6**.
8. Tighten the Multi-Lane Grid with nuts to 80 Nm **7**.
9. Remove chain hoists **8**.



4.4.3 Connection tubes

 When using an electrified Air, the cables must be routed first (see section 5.1)

1. Insert the sliding nut with the two screws into the groove **1**.
2. Press the connection tube onto the Multi-Lane profile at a distance of approx. 30 to 70 mm and push downwards **2**.
3. Check that the connection tube is in the correct position (flush at the bottom) **3**.
4. Tighten the screws through the opening in the connection tube **4**.
5. Repeat for all connection tubes.



5 Operation

5.1 Electrical connection

⚠ DANGER

Danger from electric current

When opening a housing, a built-in electrical unit, or in the event of improper handling, there is the risk of injury due to electric shock!

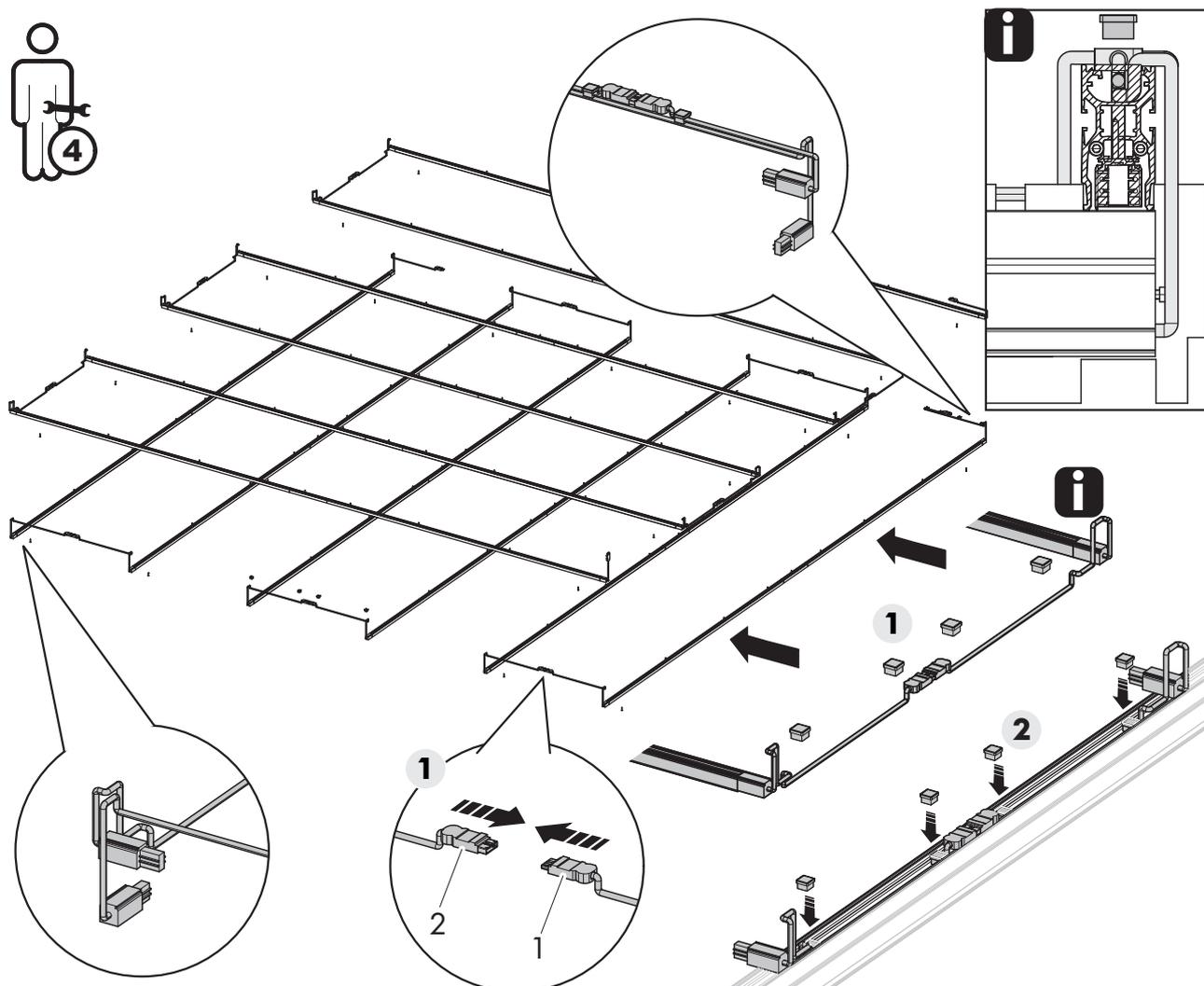
- ▶ Electrical installations must only be carried out by qualified specialists subject to the adherence of safety regulations.
- ▶ Prior to starting any work, switch the power off and ensure the fuse box against being switched on again.

i An electrician must perform the connection to the mains supply.

i In the electrified version, Multi-Lane profiles must be routed such that the connection lines can be connected to the plugs and sockets.

i There is one plug unit **[1]** and one socket unit **[2]** on each Multi-Lane profile; if one does not fit, the Multi-Lane profile must be rotated by 180°.

1. Connect the cables **1**.
2. Press the plastic plug into the Multi-Lane profile to fix the cable in place **2**.



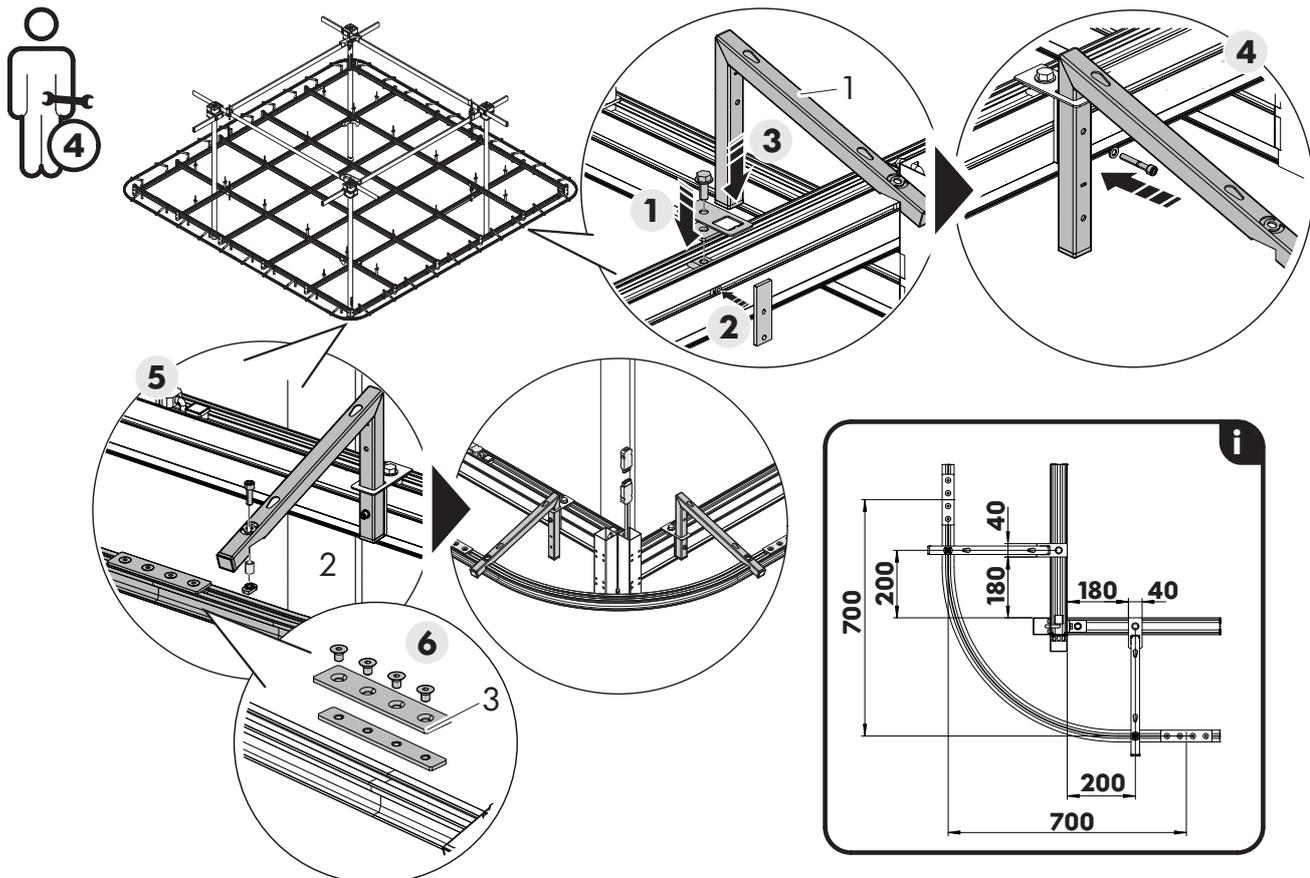
6 Accessories

6.1 Curtain rail

i The brackets must be mounted differently depending on whether they have to be mounted on the lower or upper Multi-Lane profile.

i To thread the trolleys, disconnect the curtain rail connections.

1. Fit brackets **[1]** to the Multi-Lane profiles **1 2 3 4**.
2. Fit the TRUMPF 95 curtain rail from Gerriets **[2]** to the mounting bracket **5**.
3. Connect curtain rails with connecting joints **[3]** **6**.



6.2 Other accessories

i Further information on the accessories available for the Air can be found in the Air specification.

i Information on fitting the accessories can be found in the Multi-Lane installation instructions.

7 Technical data

Connected electrical loads

Connection / mains power	3 x 230 V
Maximum power	16 A
Frequency	50-60 Hz
Nominal voltage	400 V
Protection class	I
IP protection type	IP20
Maximum operating temperature	45 °C

8 Weight 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 1,000 kg with an evenly distributed load on the entire Air superstructure.
- ▶ When using heavy acoustic curtains, the permissible load must be reduced by the weight of the curtains.
- ▶ Do not exceed the maximum point load of 80 kg.
- ▶ Do not exceed the maximum permissible track load of 150 kg/m.

The specified weight loads refer to the components listed in the Visplay manual. The maximum weight loads apply with respect to a uniform load distribution. The load must be reduced immediately if there is visible deflection or deformation of the components.

Maximum load

Merchandise support frame	160 kg
Merchandise support frame including floor mounting	120 kg
Uprights	120 kg
Frame	120 kg
M8 universal adapter	30 kg
Shelves	40 kg
Hanging rail	40 kg
Hanging rail with front arm	40 kg

9 General information

9.1 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.

9.2 Storage

Store the product and its components under the following conditions:

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

9.3 Disposal

NOTE

Disposing of product components incorrectly can harm the environment.

- ▶ 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.
-

visplay

www.visplay.com

info@visplay.com