Multi-Lane

Assembly and operating instructions
USA & CANADA

visplay

play it smart

Visplay products are manufactured according to the latest technology and comply with valid rules and regulations.
Nevertheless, these products can cause injury or damage if:

- the product is improperly installed.
- the product is improperly used.
- the product is improperly altered or modified.
- original merchandise support are not used.
- the safety regulations are not observed.

⚠ WARNING

Each person involved in the planning, installation and/or use of our products must be carefully read and observe these instructions of use.

The following are of course also valid:

- Relevant accident prevention regulations
- Generally recognized safety rules
- National regulations

Safety instructions

⚠ WARNING

When playing, children often incorrectly assess danger. You must therefore make sure that your store fittings are not used as toys.

Please pay attention to the following points:

- Structural conditions, in particular the design and bearing capacity of walls, ceilings and floors. If bearing capacity for the specified tractive or pressure load cannot be achieved by suitable fastening or stabilising elements, please refrain from installation.
- All the structural components supplied for stabilising structures are to be used in an unrestricted manner and must not be removed.
- The products may only be loaded after all the installation steps have been completed.
- Merchandise supports should be loaded as evenly as possible.
- Avoid loading in fits and starts.
- The maximum weight loads is to be observed. This can be found in the instructions on assembly and use, as well as in our sales documentation.
- Furniture with castors is generally much more unstable than furniture with glides. Tall, heavy structures on castors should thus be avoided.
- The recommendations of your safety officer should also be observed.

General care for chrome, silk and pearl

In clothing retail applications, frequent dragging of clothes hangers along the surface can cause slight abrasion to their hooks. This effect is most pronounced more so than with front-on horizontal or inclined-pole displays where garments are hung side-on such that hangers have to be moved more frequently. To prevent garments from becoming soiled, cleaning of the hanging rails essential.
This abrasion can be considerably reduced by using a coat hanger cover (Scliss, 929-449.02).
Since the above-mentioned abrasion depends on the material of the clothing hangers in use, no liability can be assumed for damages that occur due to soiling.
With powder-coated surfaces subject to frequent use, use of special paints is recommended. We will be happy to advise you.

Use and care of merchandise supports with anodised aluminium surfaces

Visplay merchandise supports with anodised aluminium surfaces are hard-wearing. However, the exchange of merchandise supports might cause slight marks on the surface. Merchandise supports with plastic inserts usually cause less wear or none at all.
To remove the marks, we recommend using cleaning agents ranging from pH 5–8 (do not use any detergents with acidic or alkaline reaction). Clean by washing the surfaces using a sponge and water containing a wetting agent. and then remove fatty dirt. Rubbing off the surfaces with detergent using pure cotton waste or porous cleaning tissue and applying the necessary pressure in rubbing direction will remove the marks.
Aluminium profiles with widths exceeding 200 mm/7.874" must be subjected to abrasive cleaning using detergents specifically developed for this purpose. The cleaning agents developed for abrasive cleaning contain very finely ground neutral polishing agents and have to be adapted to the oxide layer. Alternatively, cleaning can be carried out using an abrasive fibrous web (e.g., Scotch-Brite, type A, red, fine or very fine) in combination with a non-abrasive detergent.
Subsequently, residual cleaning agents should to be rinsed off using a sponge and clear water and the part can be wiped with a chamois.

These instructions facilitate the safe and effective use of the "Multi-Lane" 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 **millimeters** and inches.

Quality assurance

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

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

Copyright

Our General Terms and Conditions apply for all orders.

Multi-Lane is approved by the Underwriter Laboratories Inc.

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1 Safety

1.1 Explanation of symbols

Safety instructions are indicated in this manual as follows.

⚠ WARNING

A warning notice designated in this manner indicates a dangerous situation that could result in death or serious 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 Intended use

The product serves exclusively for fitting merchandise supports for the presentation of goods and for mounting commercial power tracks (120 V).

Only merchandise supports and consumers that comply with the specifications in this manual are approved.

In the event of misuse, there is the danger that the merchandise supports and the electrical devices will be damaged. This can result in injuries and damage to the product.

Area of implementation

The product may only be used in the commercial area.

Personnel

This manual describes how to install the product and how to operate and clean the product. Consequently after the product is installed this manual must be transferred to the end user.

Assembly instructions are directed at personnel, who undertake the assembly and the electrical connection (e.g., shop fitters, licensed electricians).

The contents of the operating instructions are directed at the end users (e.g., sales personnel, visual merchandisers).

1.3 Dangers

- **> Use only approved accessories and electrical devices.**
- **> Comply with the permitted connection, maximum load and equipment values.**
- **> Do not lean any ladders against the merchandise supports.**
- **> Do not load the merchandise supports above the maximum load capacity.**
- **> Do not place any receptacles, from which fluids can escape, on the merchandise supports.**
- **> Keep moisture away from current conducting components.**

2 Product description

Multi-Lane is a ceiling rail system which is particularly suited for use directly under room ceilings. It consists of aluminium profiles. The bases forms a rail system that is attached to the ceiling according to the requirements at hand. At each rail, there are three levels, which can be used for different elements simultaneously: for example, for merchandise supports or ceiling lights, for attaching materials between empty spaces, or in order to hide installed power supply elements.

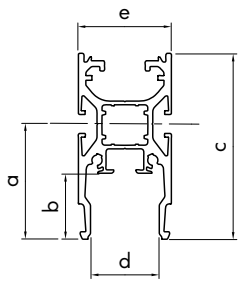
⚠WARNING

Risk of injury from goods or merchandise supports falling down. If the installation is not executed properly or if the substrate does not accommodate the necessary loads, the system can fail.

- **> Note and comply with all the following instructions on assembly.**

2.1 Ceiling rails

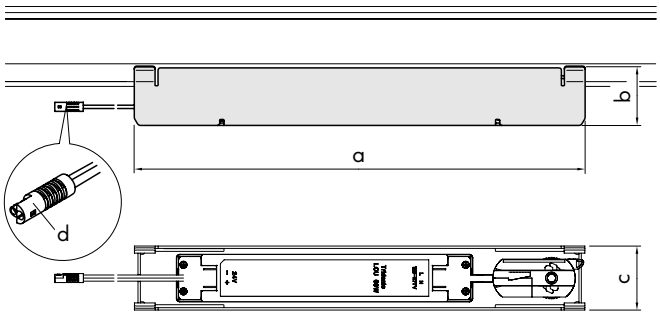
Dimensions



	mm	in
a	62	2.441
b	35.5	1.398
c	100	3.937
d	37	1.457
e	50	1.969

Fig. 1: Profile dimensions

2.2 Power supply



	mm	in
a	380	14.961
b	50	1.969
c	54	2.126
d	Ø8	0.315

Fig. 2: Converter dimensions

NOTE

Connection values corresponding to manufacturer specifications of the power rails used.

- **> Please observe the connection power of the merchandise supports used.**

General

Specification	Value	Unit
Operating voltage	120	V AC
Frequency	60	Hz
Nominal voltage (SELV)	24	V
Maximum load	60	W
Mains protection class	II	

2.3 Weight loading

The maximum load applies including the dead weight and the weight of all components.

⚠ WARNING

Do not place any merchandise (e.g., televisions, vases, etc.) onto the shelves, which can cause injuries when falling down.

Merchandise support frame

Specification	Load
Maximum load	**160 kg** / 352.736 lbs

Merchandise support frame including floor mounting

Specification	Load
Maximum load	**120 kg** / 264.552 lbs

Uprights

Specification	Load
Maximum load	**120 kg** / 264.552 lbs

Frame

Specification	Load
Maximum load	**120 kg** / 264.552 lbs

M8 universal adapter

Specification	Load
Maximum load	**30 kg** / 66.138 lbs

Shelves

Specification	Load
Maximum load	**40 kg** / 88.184 lbs

Hanging rail

Specification	Load
Maximum load	**40 kg** / 88.184 lbs

Hanging rail with front arm

Specification	Load
Maximum load	**40 kg** / 88.184 lbs

2.4 Unpacking

Check the delivery for completeness and transport damage 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.
- Only ship the product in the original packaging.
- 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.

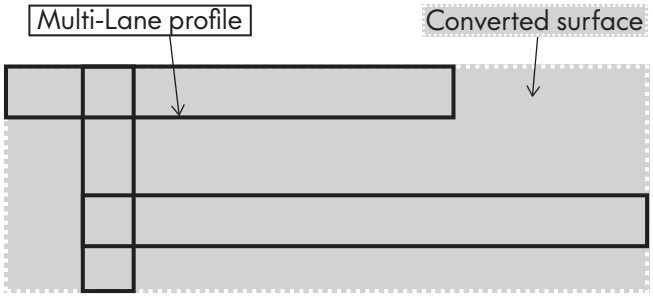
3 Ceiling system installation

3.1 Requirements for the installation location

The installation location must meet the following requirements:

- The installation location must be dry. Installation outdoors is prohibited.
- The ceiling must be designed for, and able to support, the load to be borne (check with architect and structural engineer).
- Take account of items already fixed to the ceiling (ventilation, sprinklers, services supply lines, etc.).

Determining the surface loading for the load carrying ceiling



$$\text{Surface loading for the ceiling} = \frac{\mathbf{A} \times \mathbf{B}}{\text{Converted surface}} \times \mathbf{C}$$

A: Total length Multi-Lane profile [**m**]/[ft]
B: load-bearing capacity **150 + 25 = 175 kg/m**
100.795 + 16.799 = 117.595 lbs/ft
C: Degree of loading

Fig. 3: Determining the surface loading for the load carrying ceiling

The degree of loading (a value ≤ 1) is determined as degree of loading = NUM/SUML

- NUM = number of standard accessory parts
- SUML = sum of the Multi-Lane profile lengths (in **metres**/feet)

Example calculation:
The surface fitted with Multi-Lane profiles (converted surface) is **15 m x 10 m = 150 m²** / 49.213 ft x 32.808 ft = 1614.590 ft².
The total length of all Multi-Lane profiles installed is **65 m**/213.255 ft, together with 40 standard accessory parts.

Degree of loading = **40/65 = 0.62** / 40/213.255 = 0.188

Surface load = **65 x 175 kg x 0.62 / 150 m²**
= **47 kg/m² (0.47 kN/m²)** /
= 213.255 x 385.805 lbs x 0.188 / 1614.590 ft²
= 9.626 lbs/ft² (9.816 lbf/ft²)

Definition of the suspension points and loads

⚠ WARNING

When the Multi-Lane profile is closed and installed flush with the ceiling, the loads from this ceiling construction must not be transferred to the Multi-Lane profile. The ceiling installer must ensure that this is the case. Only minimal loads that result from the requirement of a perfect joint, using the relevant profiles, is permitted.

3.2 Application options depending on the profile length

Connector with ceiling attachment

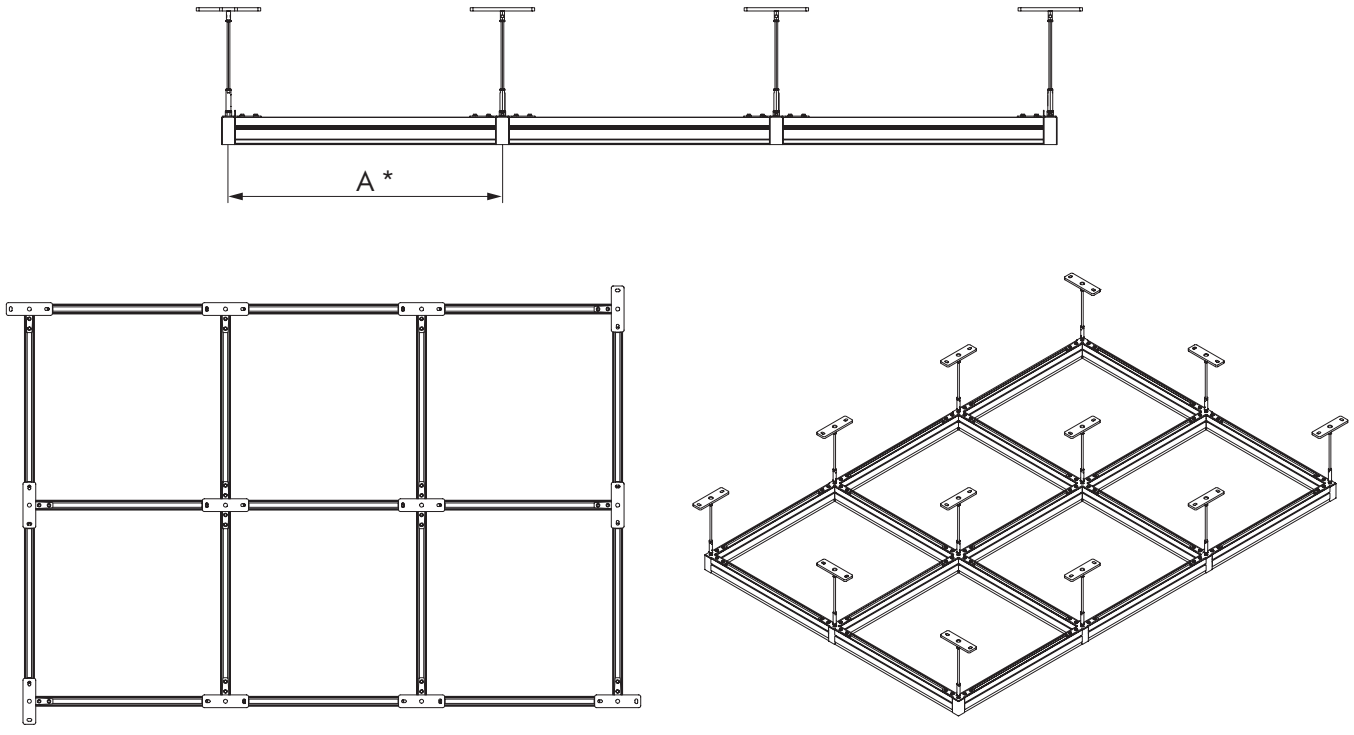


Fig. 4: Connector with ceiling attachment

*In the case of axes up to a maximum of **1500 mm**/59.055", use a connector with ceiling attachment at the intersection points.

Connector with ceiling attachment and suspended ceiling mounting

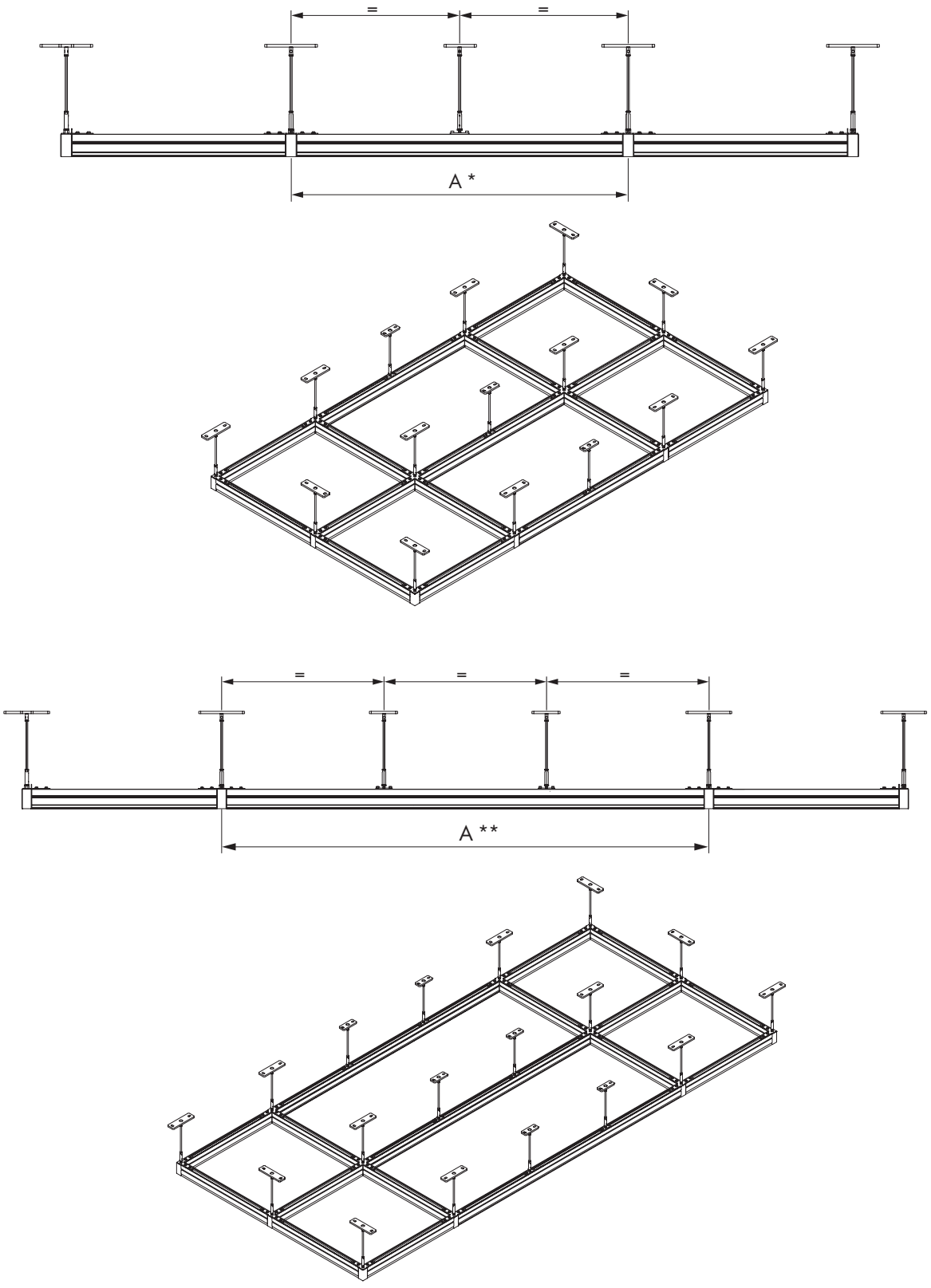
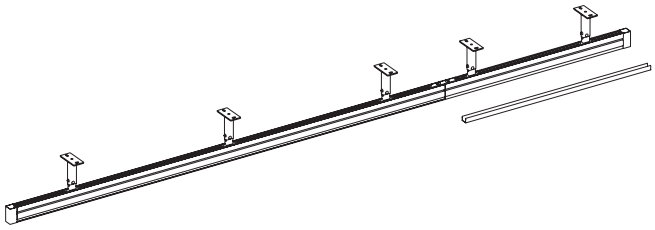


Fig. 5: Connector with ceiling attachment and suspended ceiling mounting

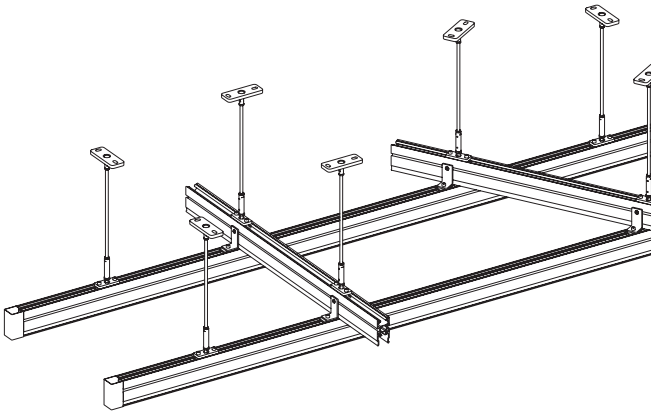
* In the case of an axis over **1501 mm**/59.094" to **2500 mm**/ 98.425", additionally use a suspended ceiling connection in the centre.

** In the case of an axis over **2501 mm**/98.464" to **3000 mm**/ 118.110", additionally use two suspended ceiling connections at the same distance.

Connection using a connection set



Connection across several levels



3.3 Ceiling mounting

3.3.1 Installation of connectors with ceiling attachment

NOTE

The suspended mounting takes place using M10 threaded rods (DIN 976-1 8.8, not supplied). The correct size and type of anchor fixings must be used to suit the construction conditions.

> **Check anchor fixing as specified by manufacturer.**

Definition of the suspension points and load

For preparation, the required number of plates for the connectors must be bolted to the ceiling.

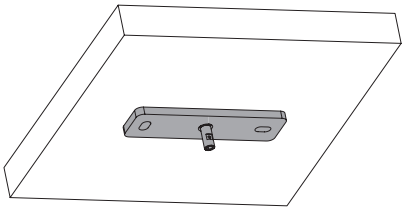


Fig. 6: Bolt the plate to the ceiling

⚠ WARNING

> **The suspension point (attachment means) must be able to bear at least 9.2 kN (design value).**
> **Load from merchandise supports and merchandise 150 kg/m** / 100.795 lbs/ft **or 80 kg**/176.368 lbs **per hanger adapter.**
> **Each Multi-Lane profile is joined to one another via a connector.**
> **The Multi-Lane profile length is a maximum of 3000 mm**/118.110".
> **Each Multi-Lane profile is attached to the ceiling using at least two suspension elements.**

Mounting connectors

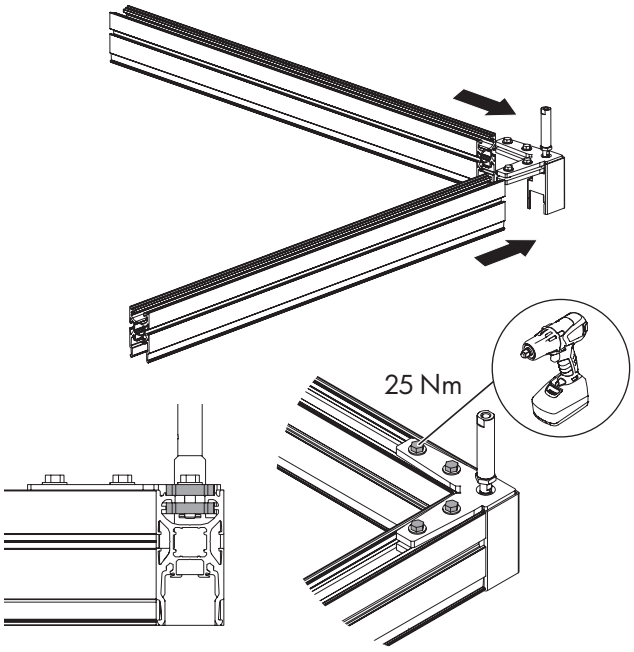


Fig. 7: Assemblying connectors

Alignment

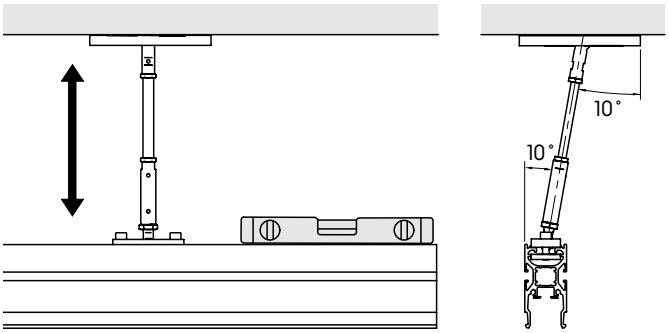


Fig. 8: Aligning connectors

The connector can be installed at up to a 10° angle.

Fixing and visual check

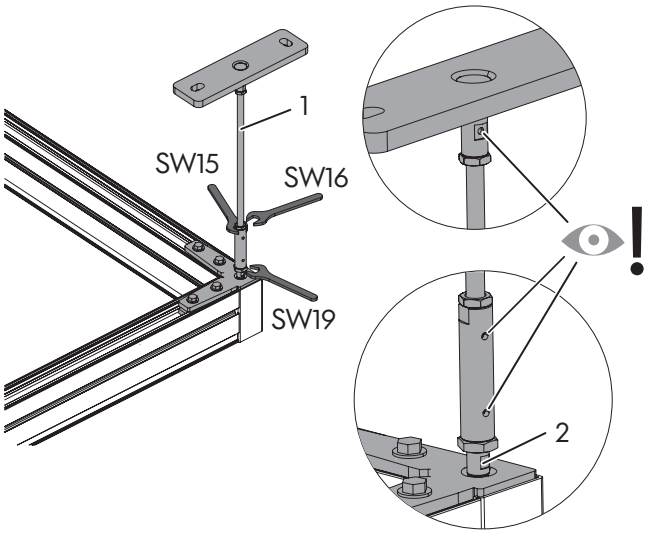


Fig. 9: Securing with open-end spanners and visual check

⚠ WARNING

Risk of injury from goods or merchandise supports falling down.

> **Please ensure that the threaded rod and the screw have been screwed in enough. Visual inspection: Threaded rod (Item 1, not supplied) and screw (Item 2) must be visible!**

Fitting the cover profile for L, X and T connectors

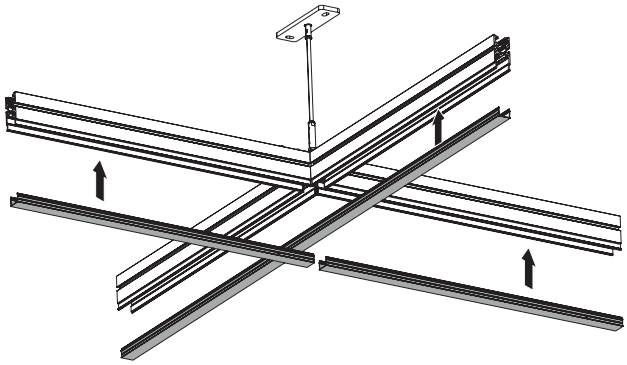


Fig. 10: Fitting the cover profile for L, X and T connectors (1)

3.3.2 Suspended ceiling mounting

NOTE

The suspended mounting takes place using M10 threaded rods (DIN 976-1 8.8, not supplied). The correct size and type of anchor fixings must be used to suit the construction conditions.

> **Check anchor fixing as specified by manufacturer.**

Definition of the suspension points and load

For preparation, the required number of plates for the suspended ceiling mounting must be bolted to the ceiling.

⚠ WARNING

> **The suspension point (attachment means) must be able to bear at least 9.2 kN (design value).**
> **Load from merchandise supports and merchandise 150 kg/m** / 100.795 lbs/ft **or 80 kg**/176.368 lbs **per hanger adapter.**
> **Each Multi-Lane profile is joined to one another via a connector.**
> **The Multi-Lane profile length is a maximum of 3000 mm**/118.110"**.**
> **Each Multi-Lane profile is attached to the ceiling using at least two suspension elements.**

Fitting the profile to the suspended ceiling mounting

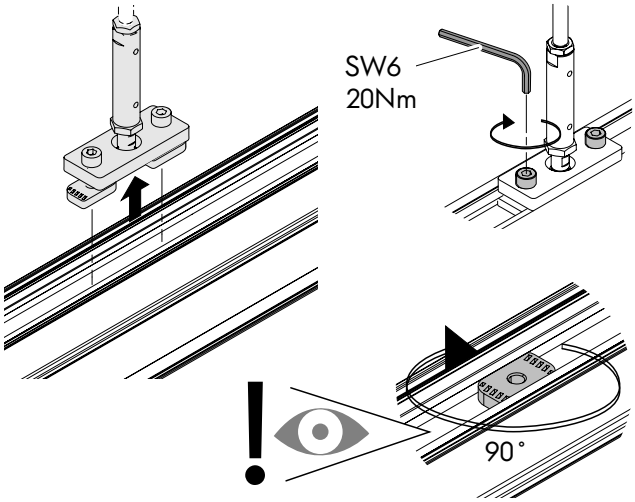


Fig. 11: Fitting the profile to the suspended ceiling mounting

NOTE

If the slot nuts are not lined up correctly, they may not work properly.

> **Check visually and try by hand.**

Alignment

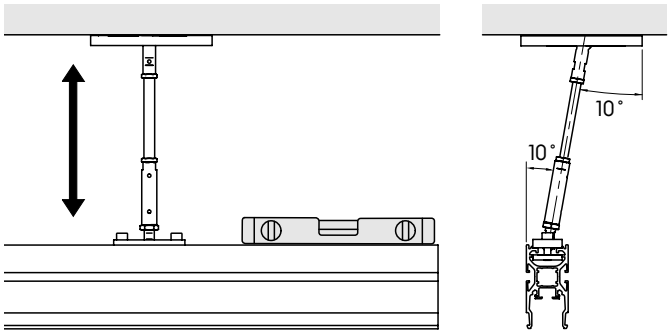


Fig. 12: Aligning the suspended ceiling mounting

Fixing and visual check

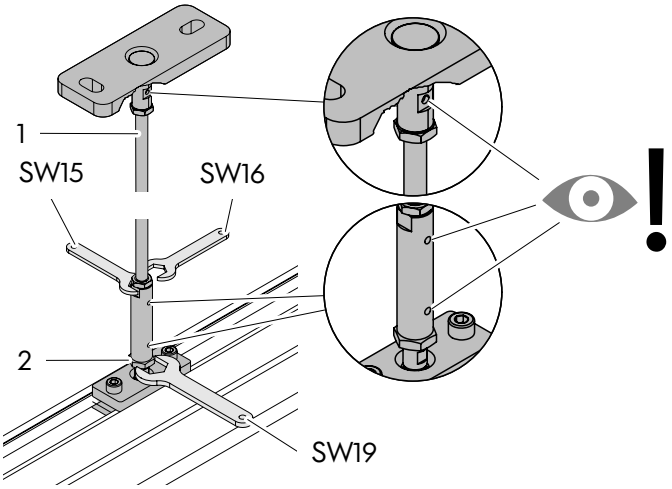


Fig. 13: Securing with open-end spanners and visual check

⚠ WARNING

Risk of injury from goods or merchandise supports falling down.

> Please ensure that the threaded rod and the screw have been screwed in enough. Visual inspection: Threaded rod (Item 1, not supplied) and screw (Item 2) must be visible!

3.3.3 Ceiling hanger

⚠ WARNING

> The suspension point (attachment means) must be able to bear at least 9.2 kN (design value).
> Load from merchandise supports and merchandise 150 kg/m / 100.795 lbs/ft **or 80 kg**/176.368 lbs **per hanger adapter.**
> Each Multi-Lane profile is joined to one another via a connector.
> The Multi-Lane profile length is a maximum of 3000 mm /118.110"**.**
> Each Multi-Lane profile is attached to the ceiling using at least two suspension elements.

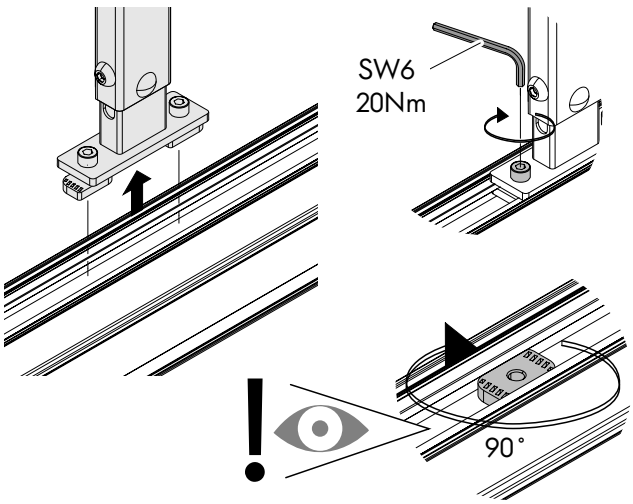


Fig. 14: Fitting the profile to the ceiling hanger

NOTE

If the slot nuts are not lined up correctly, they may not work properly.
> Check visually and try by hand.

Alignment

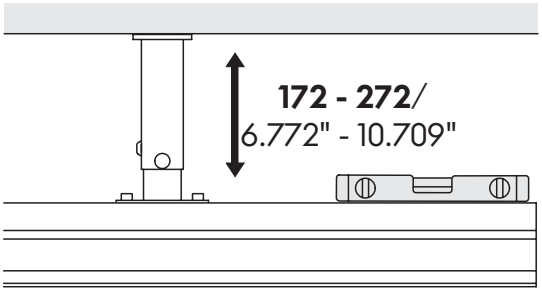


Fig. 15: Aligning the ceiling hangers

Fixing and securing

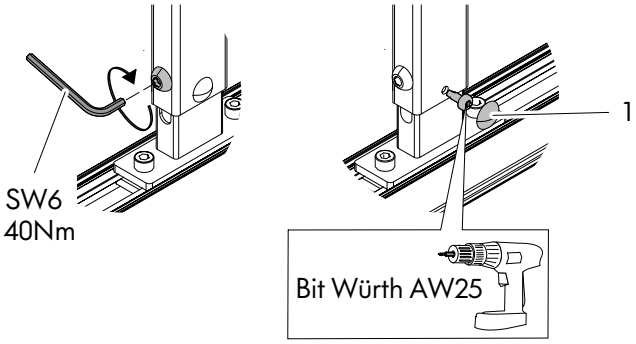


Fig. 16: Fixing and securing

Screw in the securing screw (self-tapping screw) with a cordless screwdriver! Cover the screw with the cap (Fig. 16/1).

3.3.4 Connection of ceiling rails

Fixing overlapping ceiling rails

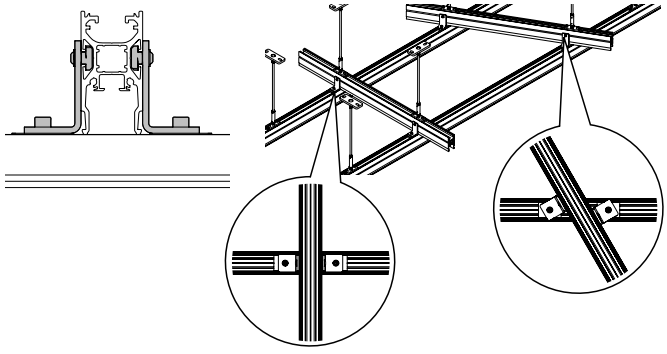


Fig. 17: Overlapping ceiling rails

NOTE

If the slot nuts are not lined up correctly, they may not work properly.
> Check visually and try by hand.

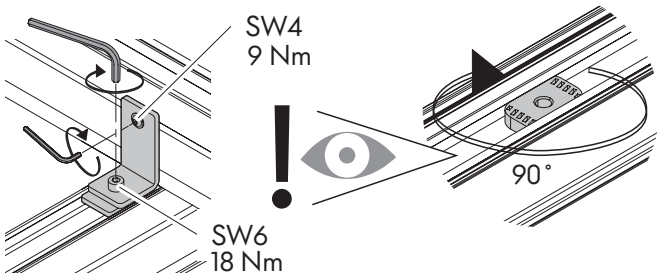


Fig. 18: Mounting the fixing set

NOTE

It must be noted that, even in the case of ceiling rails mounted lying on top of one another, each individual track is fastened to at least two suspension points.

Connecting the ceiling rails

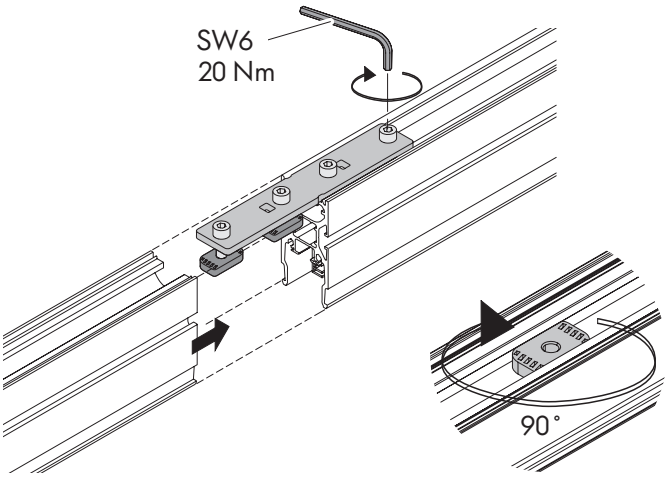


Fig. 19: Connecting the ceiling rails

NOTE

The connection set and L, T and X connectors are not designed for bearing loads.

Fitting the cover profile for L, X and T connectors

Information: Fitting the cover profile for L, X and T connectors cannot be used for connectors with ceiling attachment.

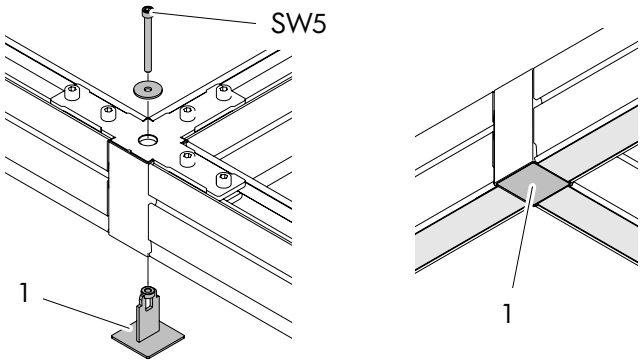


Fig. 20: Fitting the cover profile for L, X and T connectors (1)

Fitting the cover profile for the ceiling rail

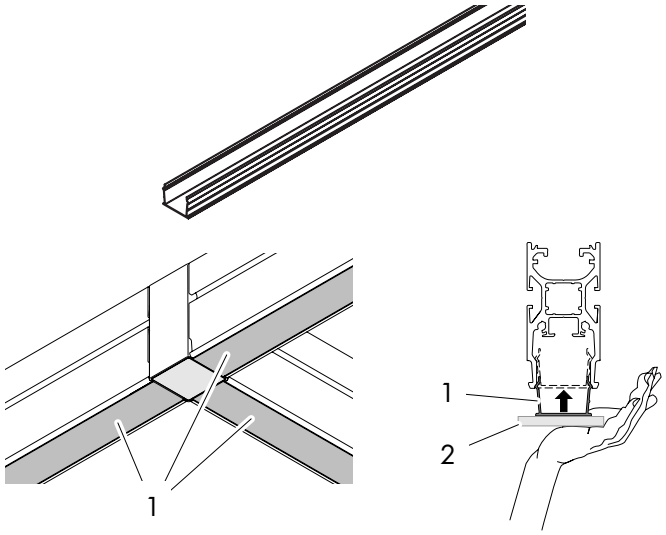


Fig. 21: Fitting the cover profile (1) using a soft underlay (2)

Attaching the end cover

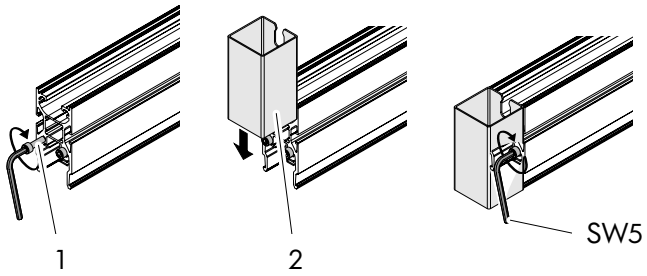


Fig. 22: Fitting the end cover for the ceiling rails

Screw in both screws (Fig. 22/1), leaving a gap of approx. **2–3 mm**/0.079"-0.118".
Slide the end cover (Fig. 22/2) over and tighten the screws.

Attaching the support and mounting profiles

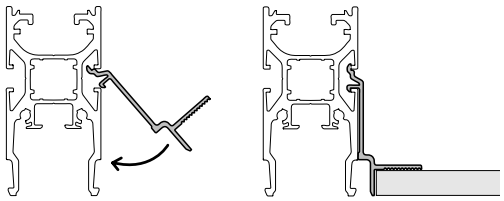


Fig. 23: Attaching the support and mounting profiles

Fastening the power tracks

Only fit the power tracks once the ceiling rails have been fixed to the ceiling.

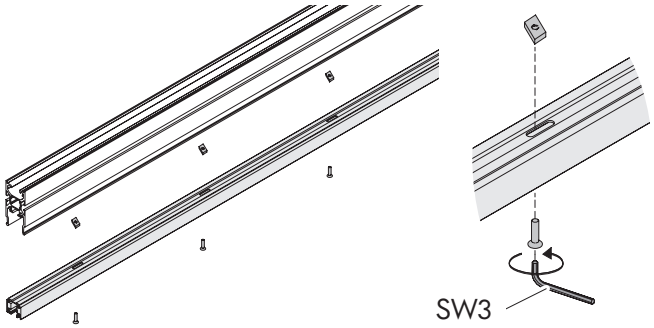


Fig. 24: Installing the power track

NOTE

Only for use with Nordic Aluminium Global trac pro XTS 3-circuit system!

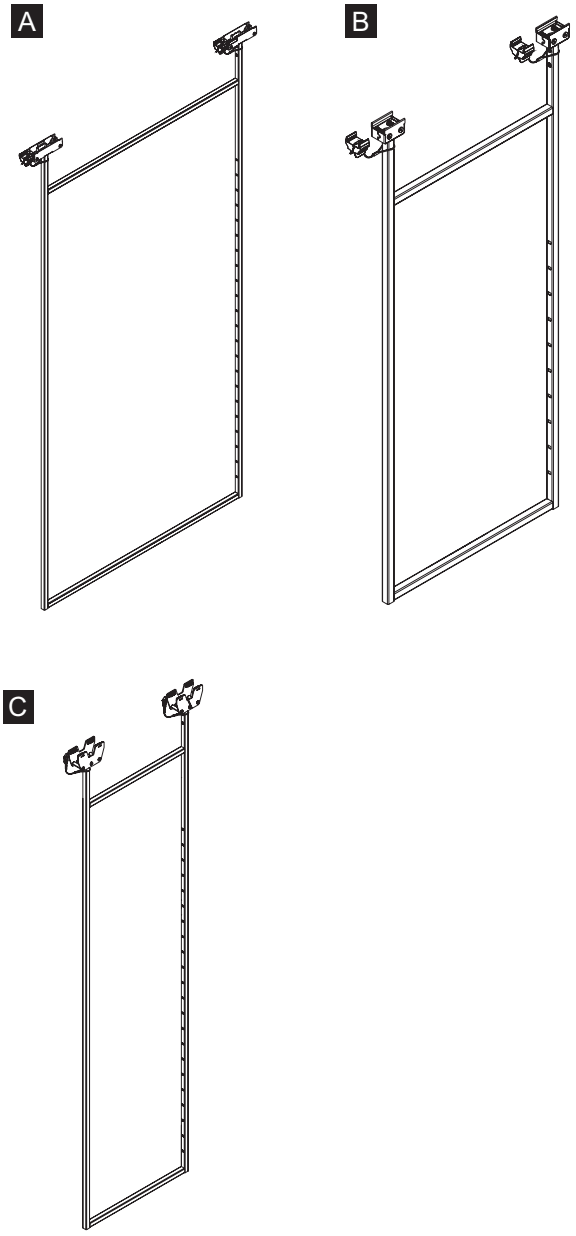
4 Operating suspended merchandise supports

4.1 General

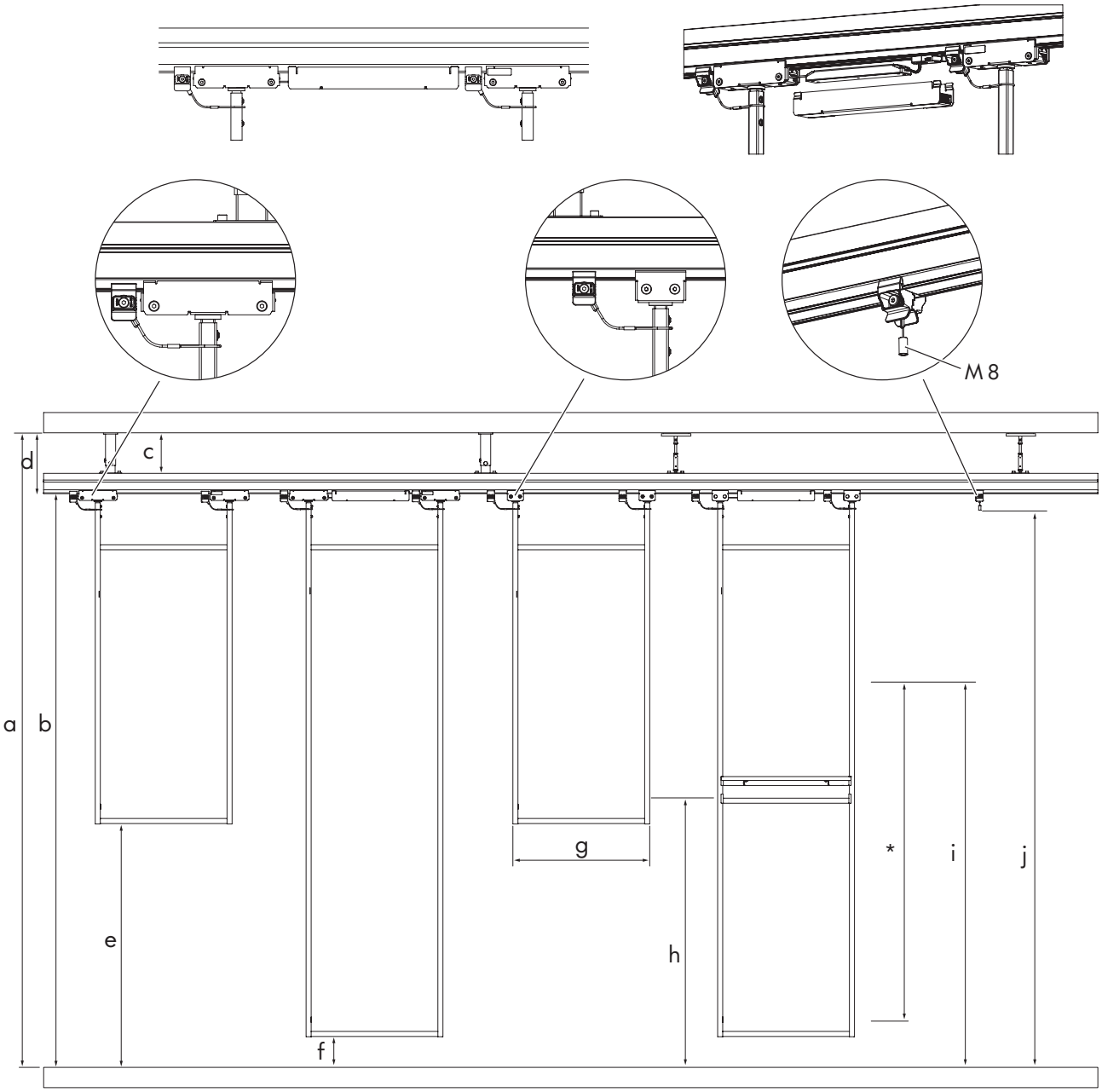
The system consists of several frame supports with different widths and lengths, which can be connected to the ceiling system. In addition, a universal adapter can be installed that specific accessories can be attached to using an M8 thread (see „9.2 M8 universal adapter“).

The frame supports can be supplied in electrified or in non-electrified form.

- Suspended merchandise support frame with hanger adapter, electrified and non-electrified (A) (see Sections 4.2 to 4.4)
- Suspended merchandise support frame with screw adapter - electrified and non-electrified (B) (see Section 4.5 to 4.7)
- Suspended merchandise support frame with sliding adapter (C) (see Sections 4.9 and 4.10)



Product scope overview



* Division for all merchandise supports **87.5 mm**/3.445"

a	**3300 mm**/129.921" ceiling rail lower edge	f	**225/275/325 mm** / 8.858"/10.827"/12.795" adjustment range
b	**3000 mm**/118.110" ceiling rail lower edge	g	**A650/1300 mm** / 25.591"/51.181"
c	**200 mm**/7.874"	h	**1500 mm**/59.055" hanging rail height
d	**300 mm**/11.811"	i	**2300 mm**/90.551" uppermost suspension possibility
e	**1275/1325/1375 mm** / 50.197"/52.165"/54.134" adjustment range	j	Universal adapter suspension height

4.2 Attaching the suspended merchandise support frame with the hanger adapter

The merchandise support frames are disassembled when delivered. The side parts are pre-assembled.

1. Mounting the connecting tubes to the side parts.

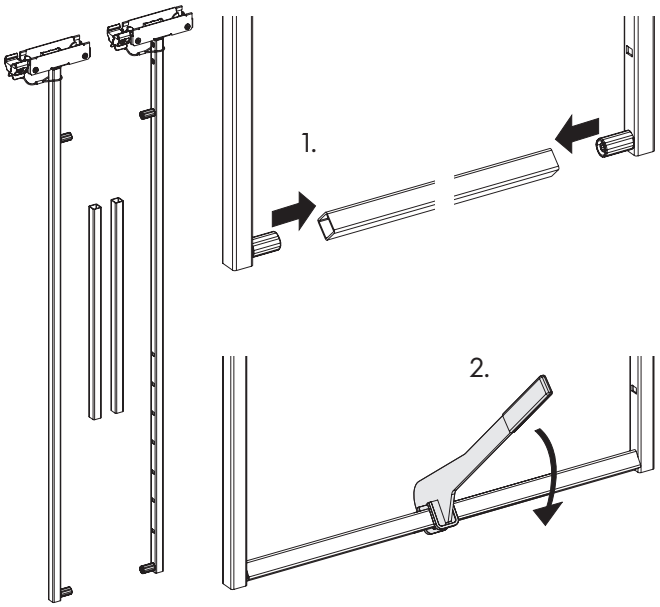


Fig. 25: Connecting the side parts to the tubes

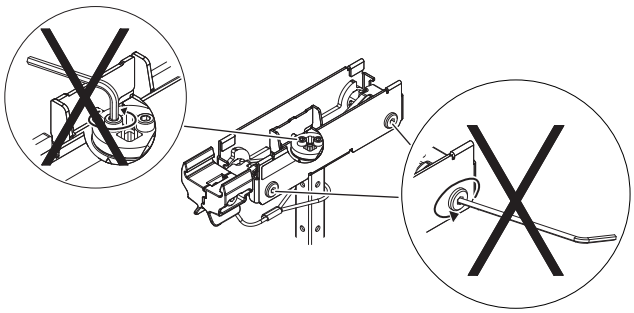
NOTE

The connecting tubes must be rotated with the assembly tool 111-844.12 and positioned properly.

⚠ WARNING

Risk of injury from goods or merchandise supports falling down.

> **Never loosen the screws shown in the following illustration.**



⚠ WARNING

Risk of injury from goods or merchandise supports falling down. 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 160 kg**/352.736 lbs **per frame.**
> **max. capacity per merchandise support 60 W, or max. 4 support frame width 1300 mm**/51.181"**.**
> **The merchandise supports must only be moved in the unloaded state.**

2. On the hanger adapter, press both levers (Fig. 26/1) up so that the tabs open (Fig. 26/2).

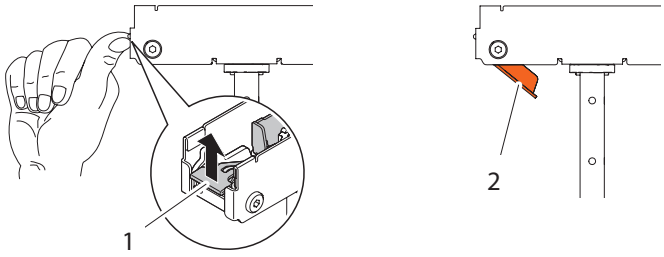


Fig. 26: Preparing the hanger adapter

3. Insert the hanger adapter into the Multi-Lane ceiling rail slightly at an angle (Fig. 27/A) and turn it straight (Fig. 27/B).

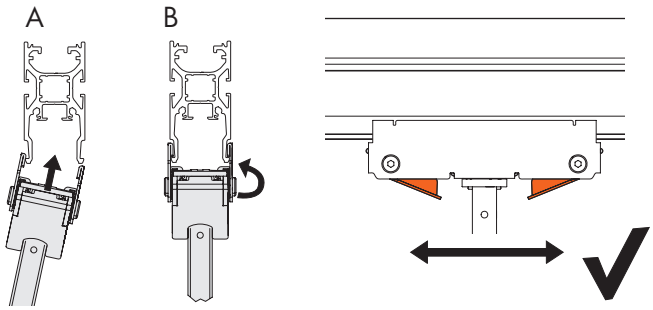


Fig. 27: Inserting and sliding

4. Push in both tabs on the adapter (audibly engaged) until the red indicator colour is no longer visible.

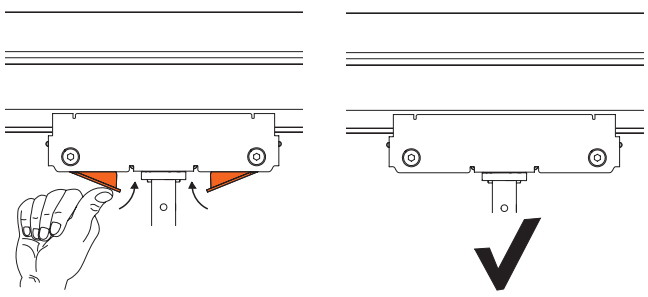


Fig. 28: Securing the merchandise support

5. Fix the clamp of the securing element on the ceiling rail.
   ➲ The merchandise support is securely fixed.

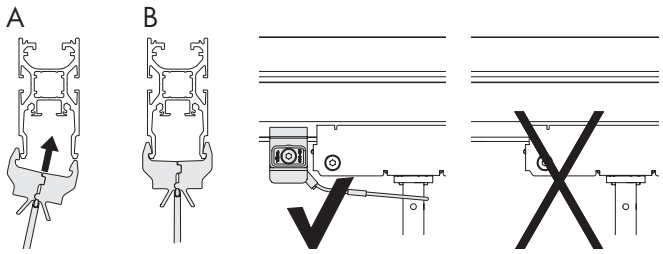


Fig. 29: Attaching the securing element

⚠ WARNING

Assembly must proceed according to the assembly instructions. Otherwise the equipment may not work properly.

> The red indicator colour on the side of the two actuator levers must no longer be visible.
> Fix the clamp of the securing element to the ceiling rail.

4.3 Addition: Rotating merchandise support

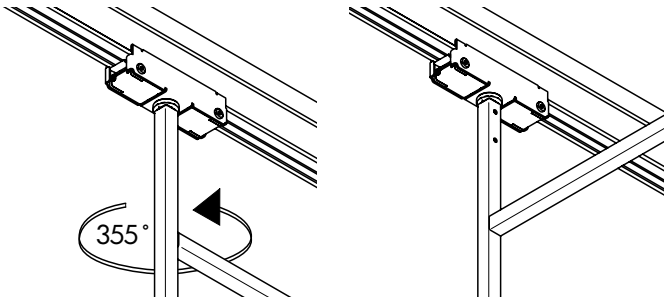


Fig. 30: Rotating the merchandise support

4.4 Removing the suspended merchandise support frame with the hanger adapter

⚠ WARNING

The merchandise support can fall down when the hanger adapter is opened.

> The merchandise support must be held firmly.

On the hanger adapter, press both levers (Fig. 31/1) up so that the tabs open (Fig. 31/2).

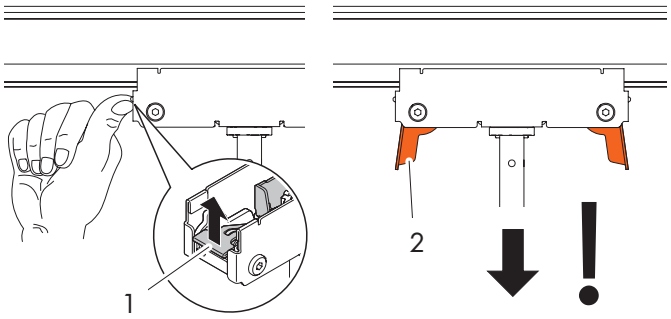


Fig. 31: Removing merchandise support

4.5 Attaching the suspended merchandise support frame with the screw adapter

The merchandise support frames are disassembled when delivered. The side parts are pre-assembled.

1. Mounting the connecting tubes to the side parts.

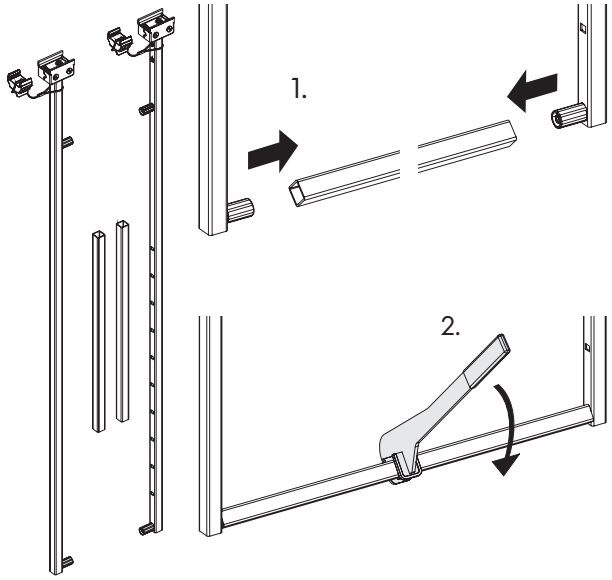


Fig. 32: Connecting the side parts to the tubes

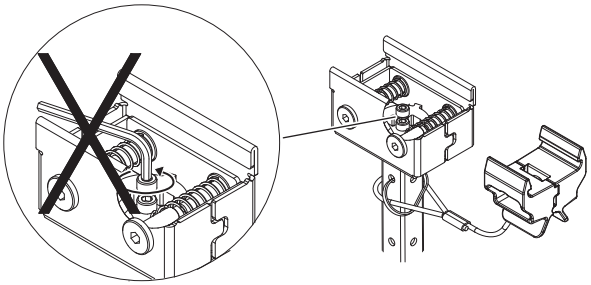
NOTE

The connecting tubes must be rotated with the assembly tool 111-844.12 and positioned properly.

⚠ WARNING

Risk of injury from goods or merchandise supports falling down.

> Never loosen the screws shown in the following illustration.



⚠ WARNING

Risk of injury from goods or merchandise supports falling down. 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 160 kg/352.736 lbs **per frame.**
> The merchandise supports must only be moved in the unloaded state.

⚠ WARNING

Risk of injury from falling merchandise supports. During assembly, the merchandise support could fall down at any time.

> The merchandise support must be firmly held during assembly.

2. Undo the clamping plates of the screw adapter approx. **50 mm**/1.969" with an SW5 Allen key.

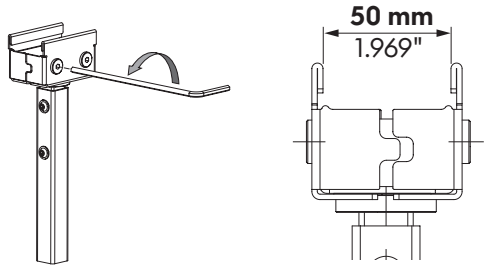


Fig. 33: Prepare screw adapter

3. Guide the screw adapter vertically from below into the Multi-Lane ceiling rail.
4. In order to preliminarily secure for the merchandise support, loosely fix the clamping plates on the Multi-Lane rail using the Allen key and, after final positioning has taken place, firmly tighten with 10 Nm.

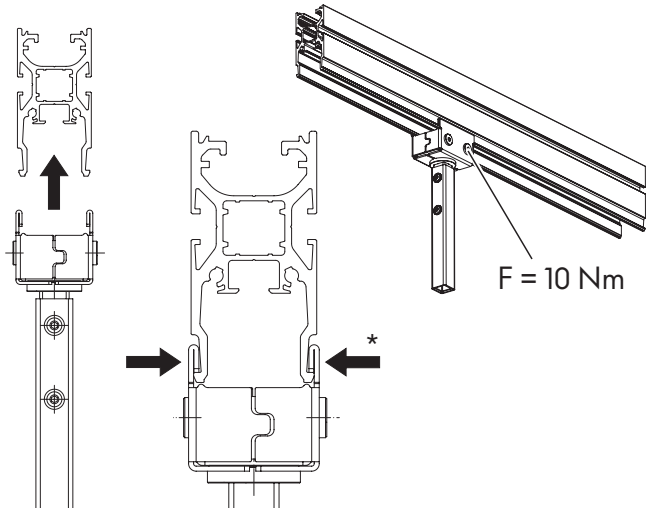


Fig. 34: Attaching merchandise support

* Preliminary securing by loosely fixing the clamping plates

5. Fix the clamp of the securing element on the ceiling rail.
   ➲ The merchandise support is securely fixed.

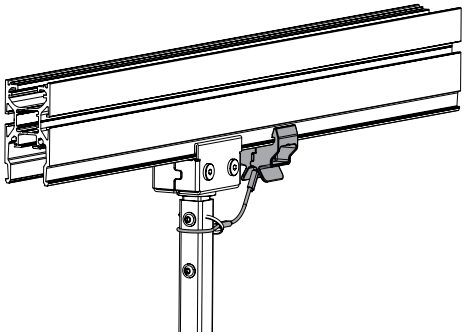


Fig. 35: Securing the merchandise support and attaching the securing element

NOTE

Assembly must proceed according to the assembly instructions. Otherwise, the equipment may not work properly.

4.6 Addition: Rotating merchandise support

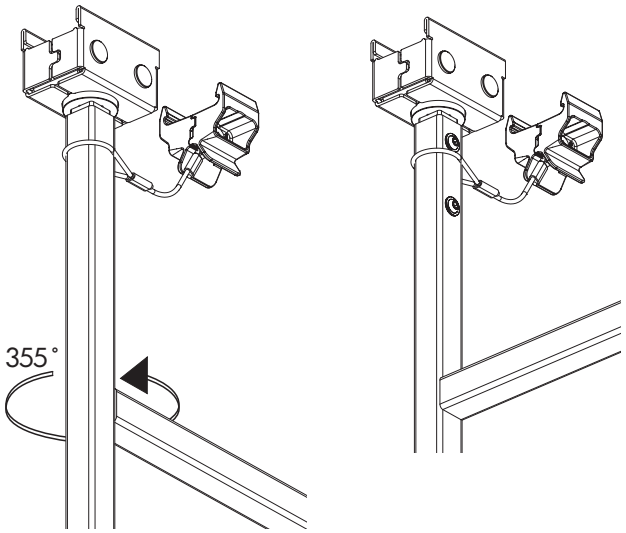


Fig. 36: Rotating the merchandise support

4.7 Removing the suspended merchandise support frame with the screw adapter

⚠ WARNING

Risk of injury from goods or merchandise supports falling down. During dismantling, the merchandise support could fall down at any time.

> Keep the securing element clamped to the Multi-Lane rail using a clamp.

> Hold the merchandise support firmly.

1. Screw on the clamping plate of the screw adapter by rotating the screws counter-clockwise with the SW5 Allen key.

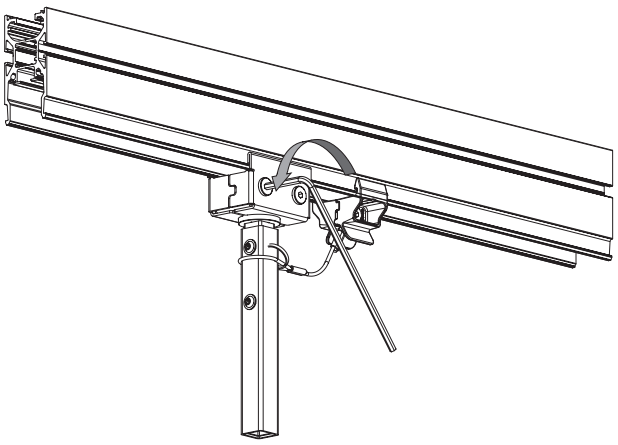


Fig. 37: Removing merchandise support

4.8 Attaching the power supply

1. Insert the adapter from below into the slot on the power track.

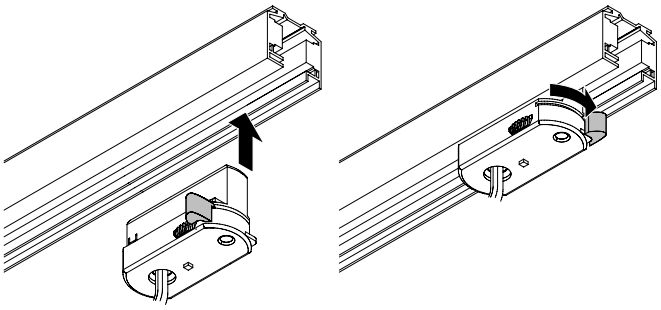


Fig. 38: Inserting the adapter into the power track

2. Clip the converter cover into the profile.

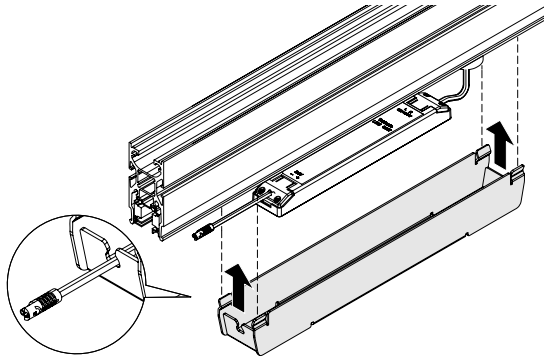


Fig. 39: Clipping the cover into the profile

4.9 Attaching the suspended merchandise support frame with the sliding adapter

The merchandise support frames are disassembled when delivered. The side parts are pre-assembled.

1. Mounting the connecting tubes to the side parts.

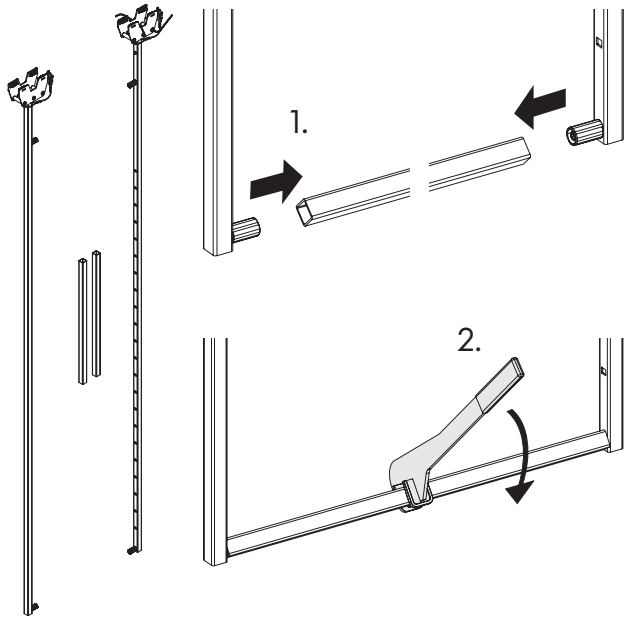


Fig. 40: Connecting the side parts to the tubes

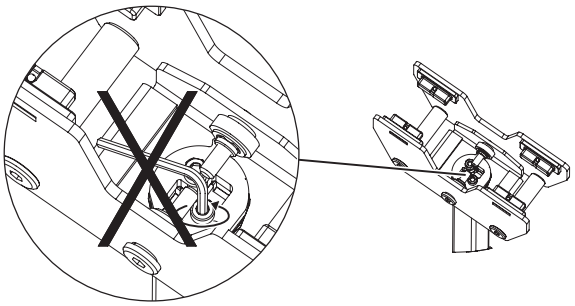
NOTE

The connecting tubes must be rotated with the assembly tool 111-844.12 and positioned properly.

⚠ WARNING

Risk of injury from goods or merchandise supports falling down.

> **Never loosen the screws shown in the following illustration.**



⚠ WARNING

Risk of injury from goods or merchandise supports falling down. 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 160 kg**/352.736 lbs **per frame.**
> **The merchandise supports must only be moved in the unloaded state.**

⚠ WARNING

Risk of injury from falling merchandise supports. During assembly, the merchandise support could fall down at any time.

> **The merchandise support must be firmly held during assembly.**

2. Loosen screws on one side using an SW4/SW5 Allen key and set the intermediate dimension to **55 mm**/2.165".

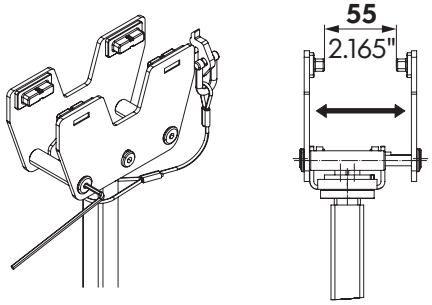


Fig. 41: Prepare sliding adapter

3. Guide the sliding adapter vertically from below via the Multi-Lane ceiling rail.
4. Suspend using the fixed adapter side and then firmly tighten all screws (6x) with 10 Nm using the Allen key.

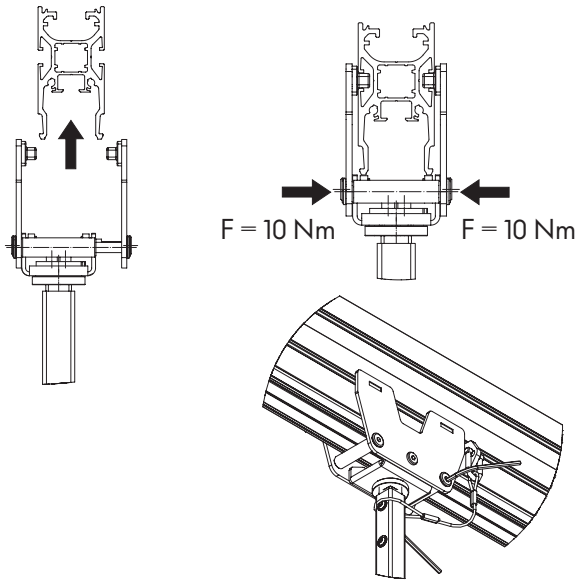


Fig. 42: Attaching merchandise support

5. Fix the securing element on the ceiling rail.
   ➲ The merchandise support is securely fixed.

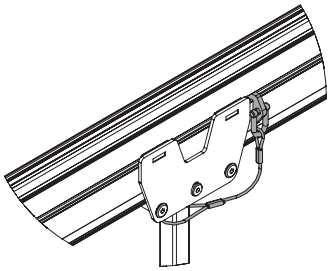


Fig. 43: Attaching the securing element

NOTE

Assembly must proceed according to the assembly instructions. Otherwise, the equipment may not work properly.

4.10 Removing the suspended merchandise support with the sliding adapter

⚠ WARNING

Risk of injury from goods or merchandise supports falling down. During dismantling, the merchandise support could fall down at any time.

> Hold the merchandise support firmly.

1. Loosen screws on one side using an SW4/SW5 Allen key until the lateral sliding elements are fully visible. Carefully remove the frame downwardly.

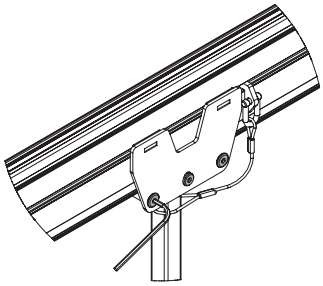


Fig. 44: Removing merchandise support

4.11 Accessories: Operation of the floor mounting for suspended merchandise supports

The item consists of two floor mountings that can be mounted under the merchandise support frames.

The floor mounting is used to reduce the vibration of a freely hanging merchandise support frame.

It can only be screwed under a **H 2600**/102.362" standard frame using an M10 receptacle.

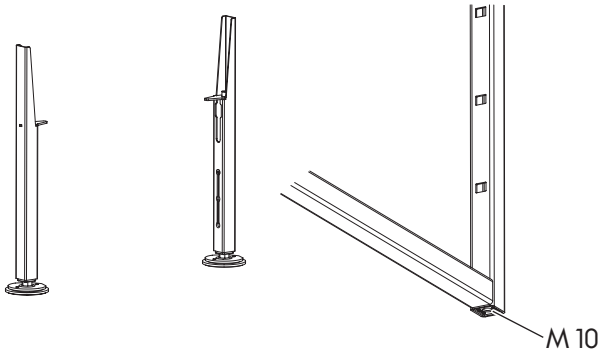


Fig. 45: Floor fixation

Overview of use of the merchandise supports with floor mounting

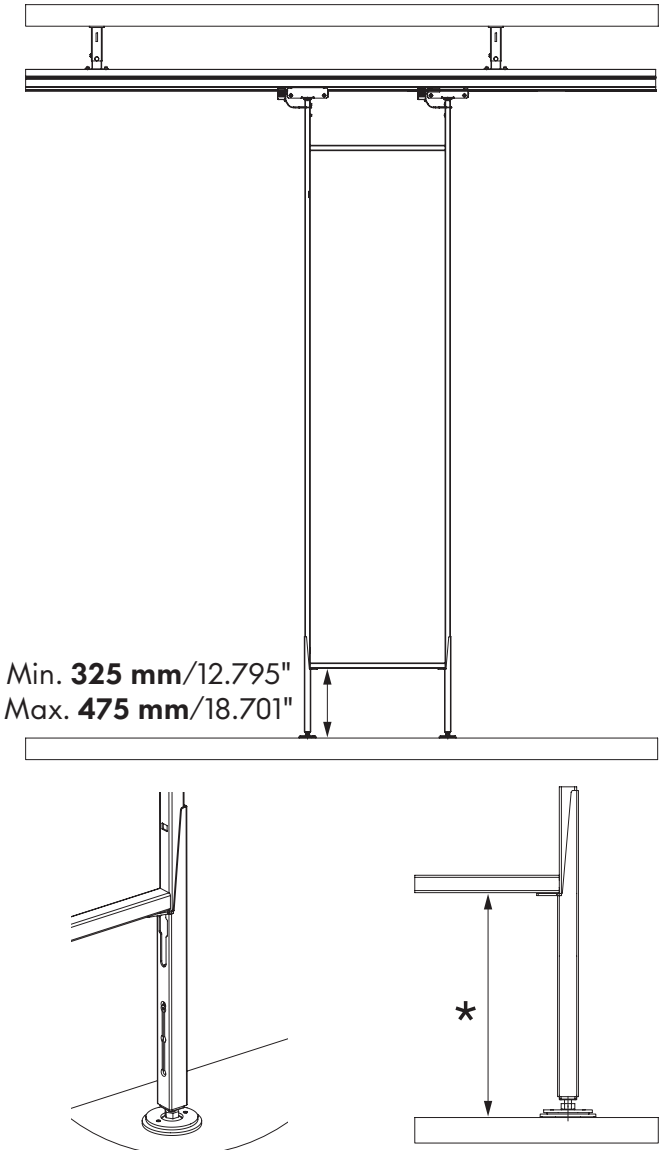


Fig. 46: Floor mounting with frame

* For frames with a minimum floor distance of:
325 mm/12.795";
adjustability: **150 mm**/5.906"

4.11.1 Attachment

1. Position the floor mounting under the vertical tube of the merchandise support.
2. Bolt the floor mounting onto the merchandise support using an SW8 Allen key (with a spherical head).

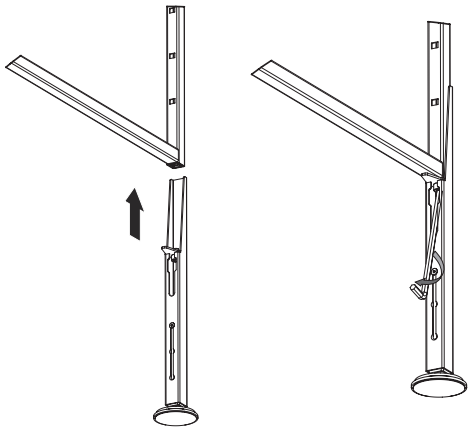
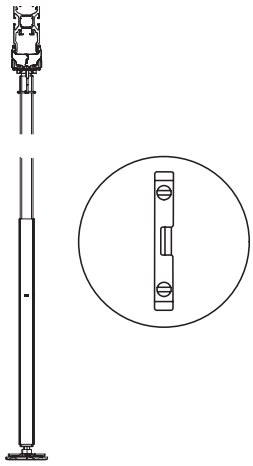
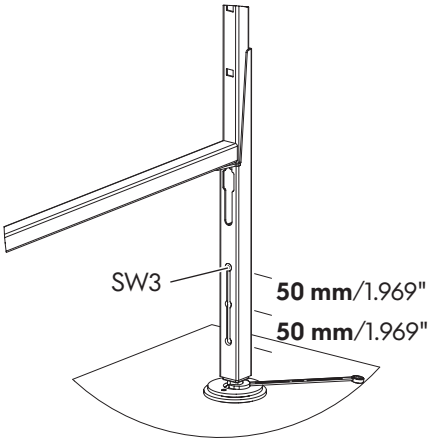


Fig. 47: Attaching floor mounting

3. Clamp the floor mounting and the merchandise support between the Multi-Lane rail and the floor with the aid of a an SW17 Allen key by rotating the adjustable slider.
4. Align spirit level vertically.



5. The floor mounting can be additionally adapted to the ceiling height (2 x **50 mm**/1.969").
For this purpose, the lateral countersunk screw must be loosened, shifted and then firmly tightened again using an SW3 Allen key.



The Multi-Lane profile must be mounted on the ceiling using a ceiling suspension mounting (318-545).

Alternatively, the suspended mounting (994-019) is also possible, however the weight force of the Multi-Lane ceiling grid must be greater than the force generated by rotating the slider.

By rotating the slider upwards, the Multi-Lane ceiling grid must not be pressed upwards.

6. Frames with floor mounting can be braked against being moved. In addition, align the frames vertically and unscrew the adjustable sliders using an SW17 Allen key. It is clamped between the Multi-Lane rail and the floor. Check break action after several rotations (min. 10x). Re-adjust if necessary

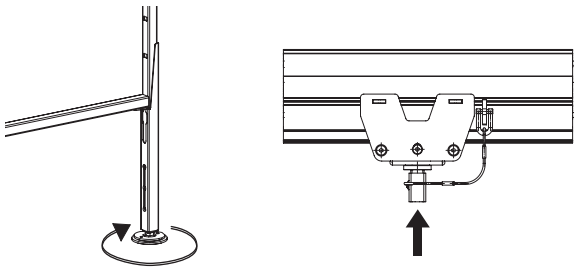


Fig. 48: Tension frames

⚠ WARNING

Only twist out the floor slider so that the merchandise support frame can no longer be moved on the floor.

4.11.2 Dismantling

1. Detach the floor mounting from the merchandise support by removing the screw using an SW8 Allen key (with spherical head).

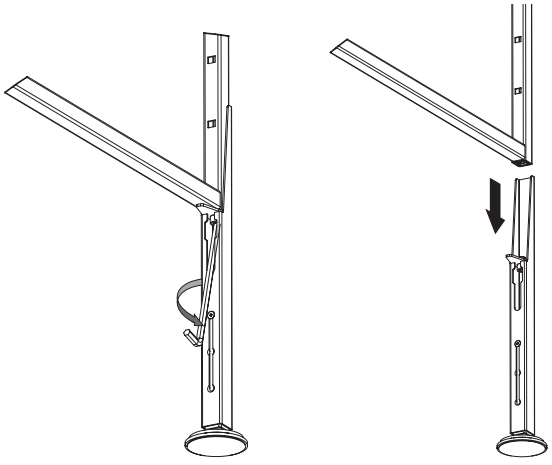


Fig. 49: Removing floor mounting

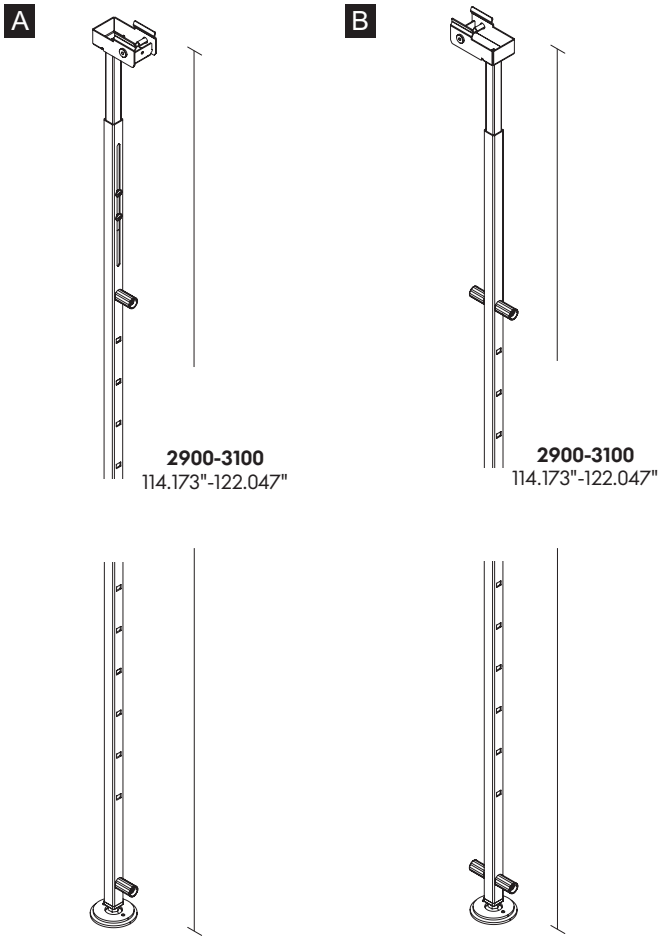
5 Operation of uprights

5.1 Uprights, 24 V

The system consists of steel uprights, the height of which can be adjusted, with or with an integrated power rail for electrifying shelves with an LED and hanging rails.

The pins on the steel upright are used to connected several uprights to one another by means of connecting tubes.

- Multi-Lane upright, outside 24 V DC, electrified and non-electrified (A)
- Multi-Lane upright, in the centre 24 V DC, electrified and non-electrified (A)



Connecting tube set

The connecting tubes are screwed on to the spigots on the uprights. Use assembly key (111-844.12).

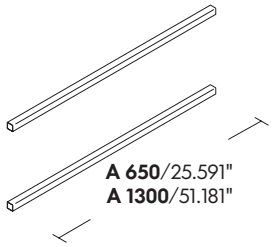


Fig. 50: Connecting tubes

Overview of the upright arrangement including dimensioning

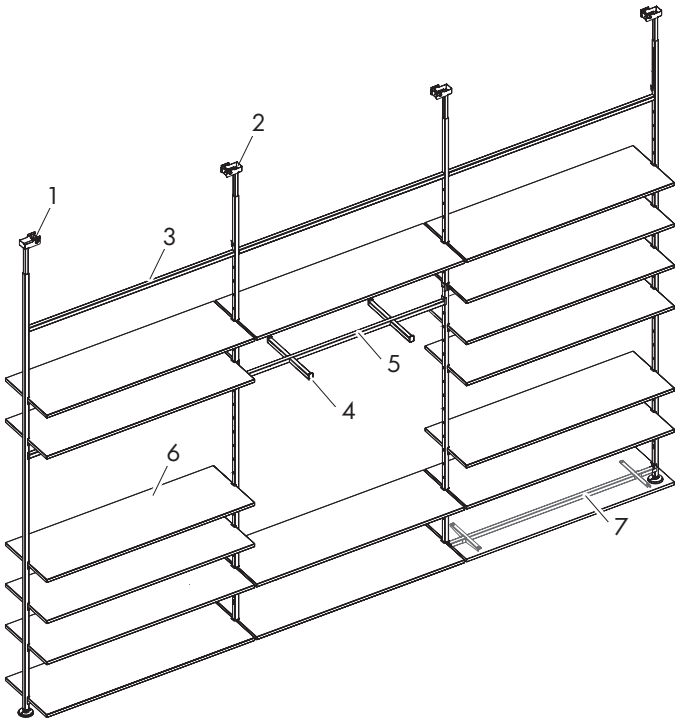
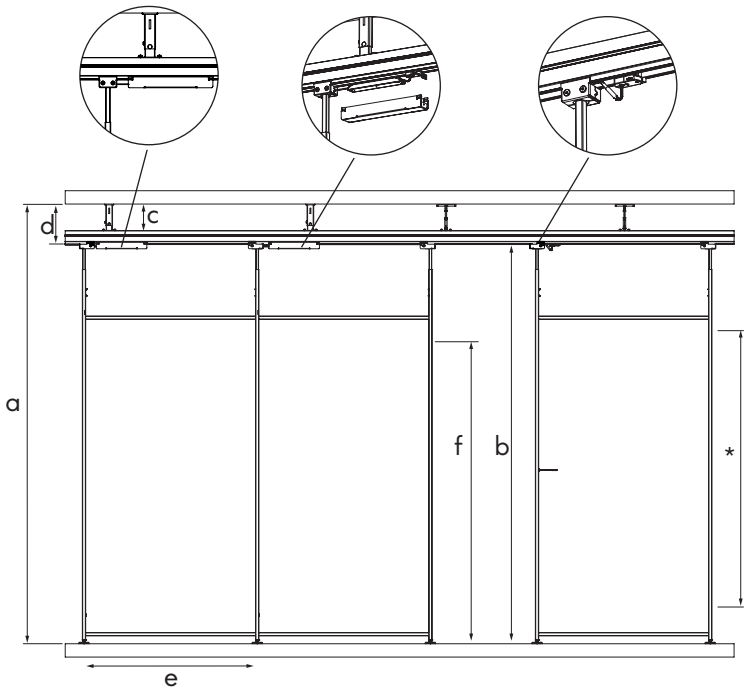


Fig. 51: Floor mounting with frame

1	Upright, externally electrified	5	Hanging rail
2	Upright, centre electrified	6	Glass/wooden shelf
3	Connecting tube set (for each axis)	7	Plug-in shelf brackets (for lower connecting tube)
4	Hanging rail with front arm		



* Division for all merchandise supports **87.5 mm**/3.445″

a	**3300 mm**/129.921" ceiling rail lower edge	d	**300 mm**/11.811"
b	**3000 mm**/118.110" ceiling rail lower edge	e	**A 650/A 1300 mm** / 25.591"/51.181"
c	**200 mm**/7.874"	f	**2350 mm**/92.520" uppermost suspension possibility

5.1.1 Attach 24 V uprights

Assembly

1. Undo the clamping plates of the hanger adapter approx. **50 mm**/1.969" with Allen key SW5.
2. In addition, the hanging adapter should be in the retracted position. For this purpose, loosen the two lateral SW4 clamping screws (1).

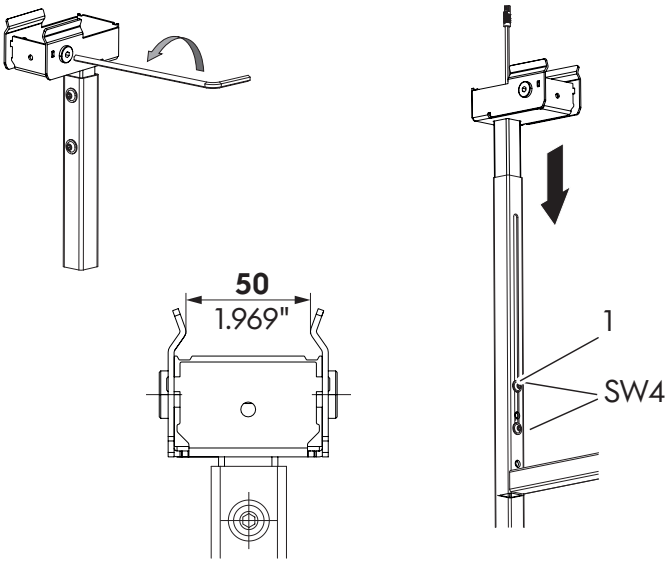


Fig. 52: Upright axis assembly preparation

3. Mount one axis, consisting of two uprights and a longitudinal connector set, to the floor in a lying position.
4. Slide the longitudinal connector tubes onto the pins and rotate them by 45° using the assembly tool.

NOTE

Tubes must be positioned properly

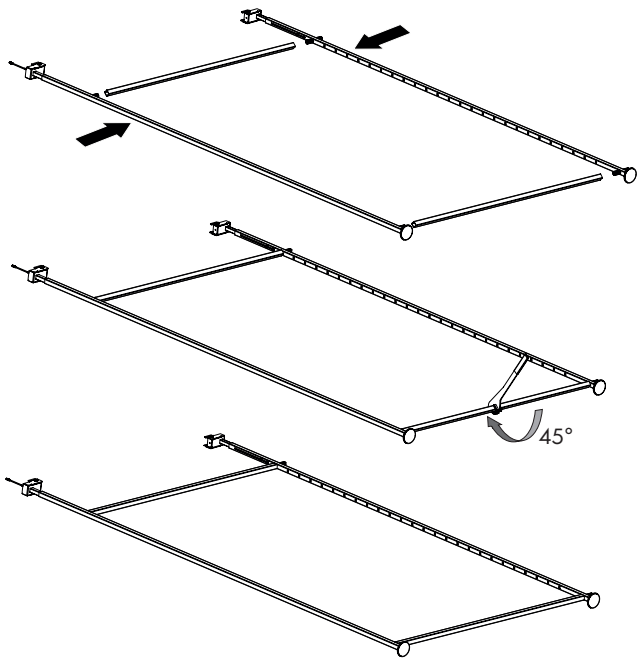


Fig. 53: Frame assembly

Mounting to ceiling rail

5. Place the frame under the Multi-Lane rail and slide the screw adapter upward up to the rail.

NOTE

Attention must be paid to laterally guiding the cable out without it getting caught in the case of electrified uprights. (For attachment of the power supply, see Section 4.8)

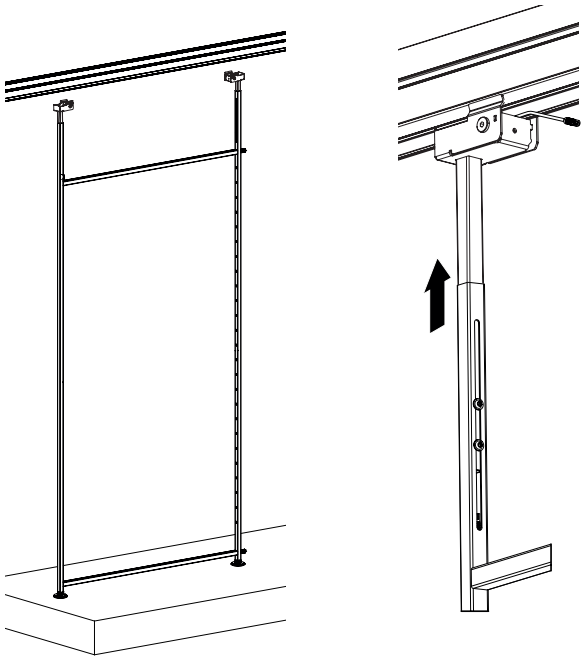


Fig. 54: Positioning under Multi-Lane

6. After final positioning, tighten the screw adapter with 10 Nm.
7. Fix the screw adapter using the lateral SW4 screws (1).

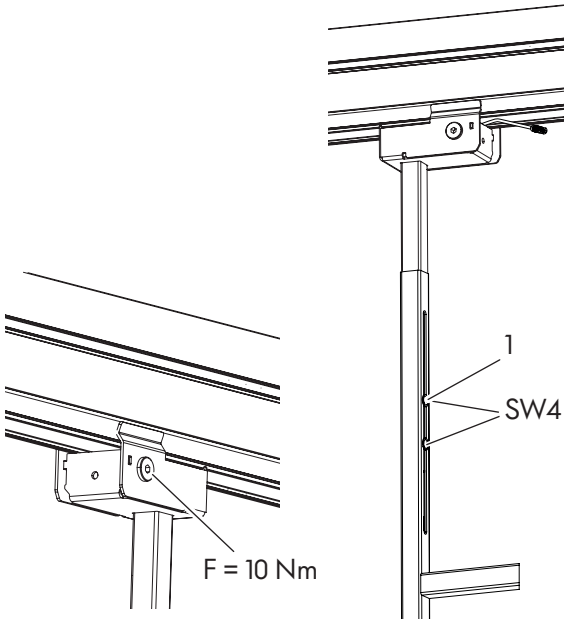


Fig. 55: Firmly clamping

8. Clamp the floor mounting and the merchandise support between the Multi-Lane rail and the floor with the aid of an Allen key by rotating the adjustable slider.
9. Align spirit level vertically.

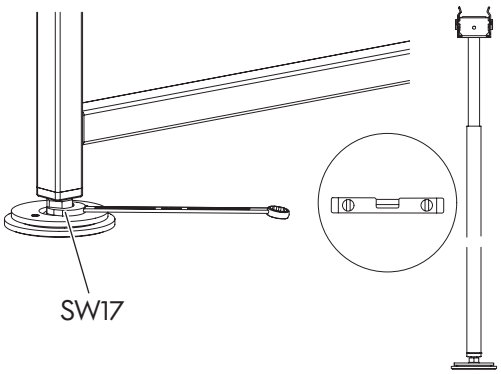


Fig. 56: Alignment

NOTE

Only twist out the floor slider so that the merchandise support frame can no longer be moved on the floor.

The Multi-Lane profile must be mounted on the ceiling using a ceiling suspension mounting (318-545).

Alternative, the suspended mounting (994-019) is also possible, however the weight force of the Multi-Lane ceiling grid must be greater than the force generated by rotating the slider.

By rotating the slider upwards, the Multi-Lane ceiling grid must not be pressed upwards.

Shown additionally.

10. Slide the longitudinal connector tubes onto the pins and dock onto the additional upright on the side. Rotate 45° using the assembly tool.
11. For attaching the upright, proceed as is the case with assembling the existing upright.

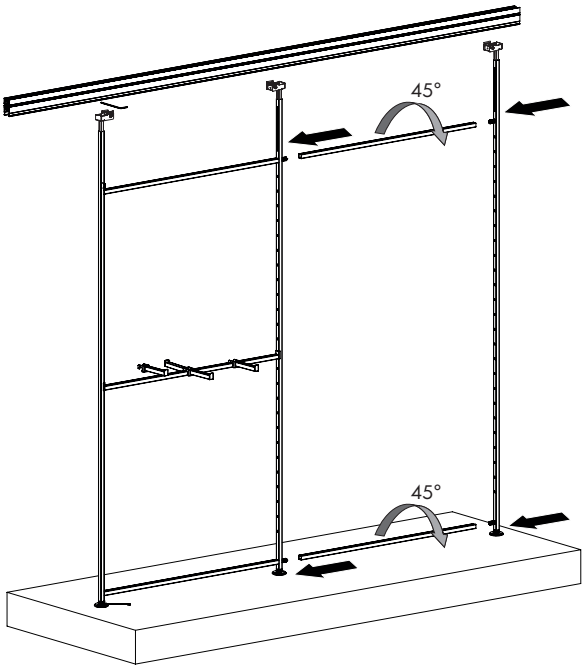


Fig. 57: New upright

5.1.2 Remove 24 V uprights

⚠ WARNING

During dismantling, the merchandise support could fall over at any time.

> The merchandise support must be firmly held during dismantling.

1. Screw on the hanger adapter by rotating the screws clockwise with the SW5 Allen key.
2. Loosen the two lateral clamping SW4 screws (1) and move the clamping adapter into the lower position.

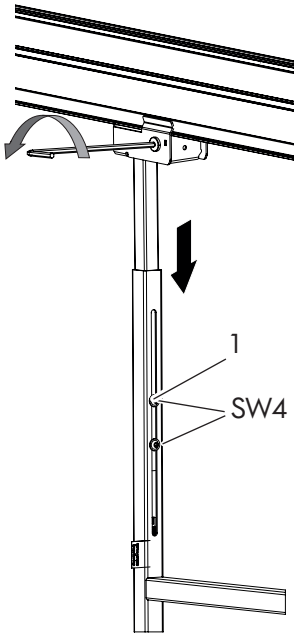


Fig. 58: Removing merchandise support

5.2 Uprights, 120 V

The system consists of a steel upright with integrated electrification.

Due to the 120 V AC current, it is possible to connect external electrical devices to the uprights with a corresponding voltage.

The pins on the steel upright are used to connect several uprights by means of connecting tubes.

- Multi-Lane upright, outside 120 V AC electrified (A)
- Multi-Lane upright, middle 120 V AC electrified (B)

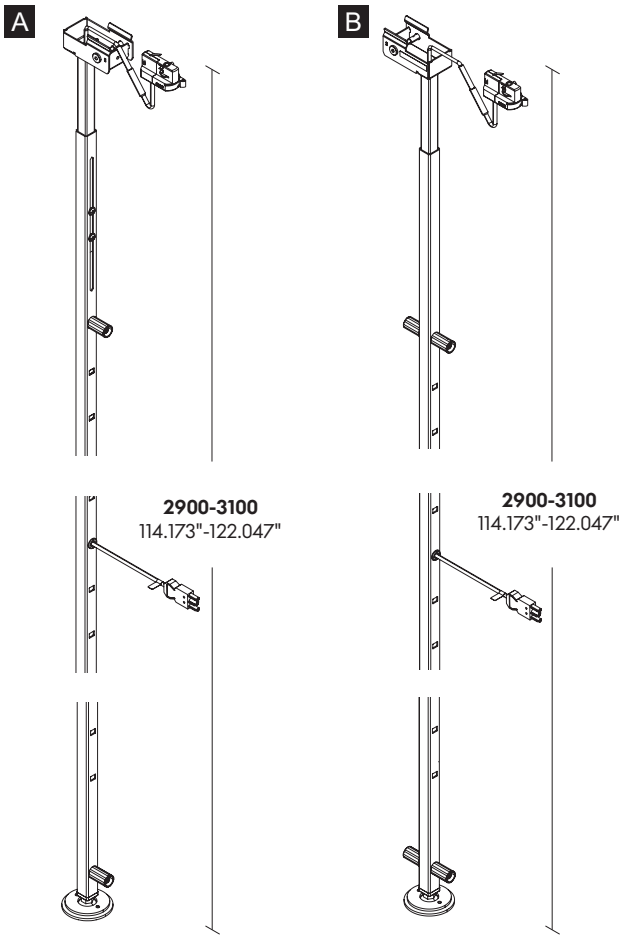


Fig. 59: Frame assembly

Connecting tube set

The connecting tubes are screwed on to the spigots on the uprights. Use assembly key (111-844.12).

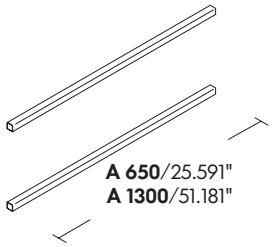


Fig. 60: Connecting tubes

Power connection cable

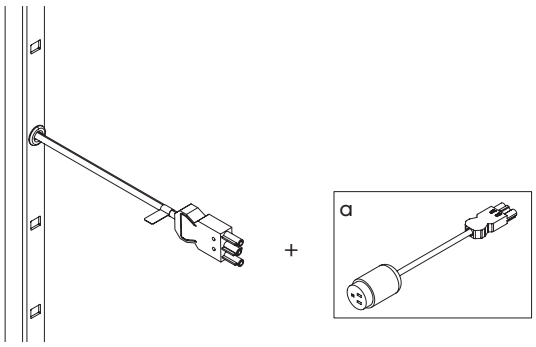


Fig. 61: Power consumption 120 V AC

a	US coupling max. 360 W

In order to attach or remove an upright axis, proceed as is the case with the 24 V upright, see „5.1.1 Attach 24 V uprights“ and „5.1.2 Remove 24 V uprights“.

⚠ WARNING

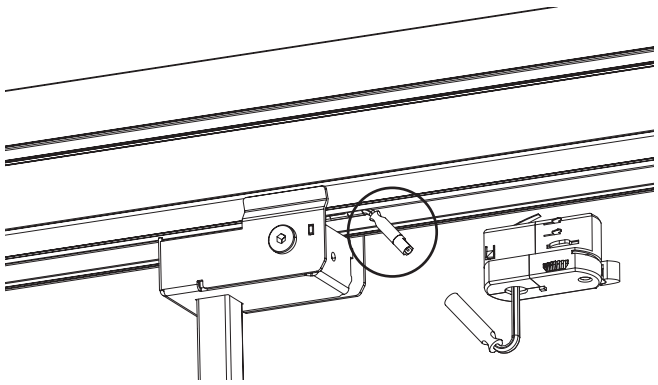
Risk of electric shock.

> Only connect the power supply after assembling the upright.

Attaching the 120 V power supply

NOTE

Attention must be paid to laterally guiding the cable out without it getting caught.



1. Insert the adapter from below into the slot on the power track.

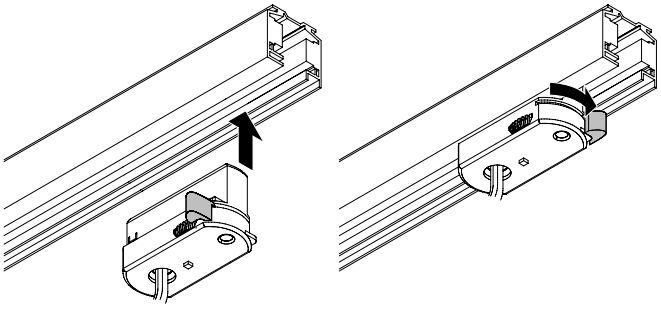


Fig. 62: Inserting the adapter into the power track

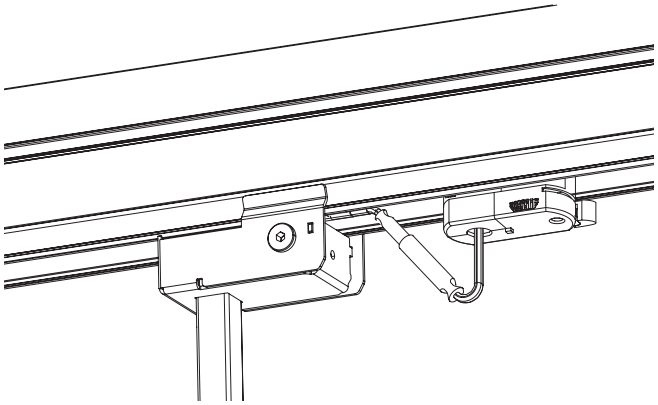


Fig. 63: Upright attachment with adapter

⚠ WARNING

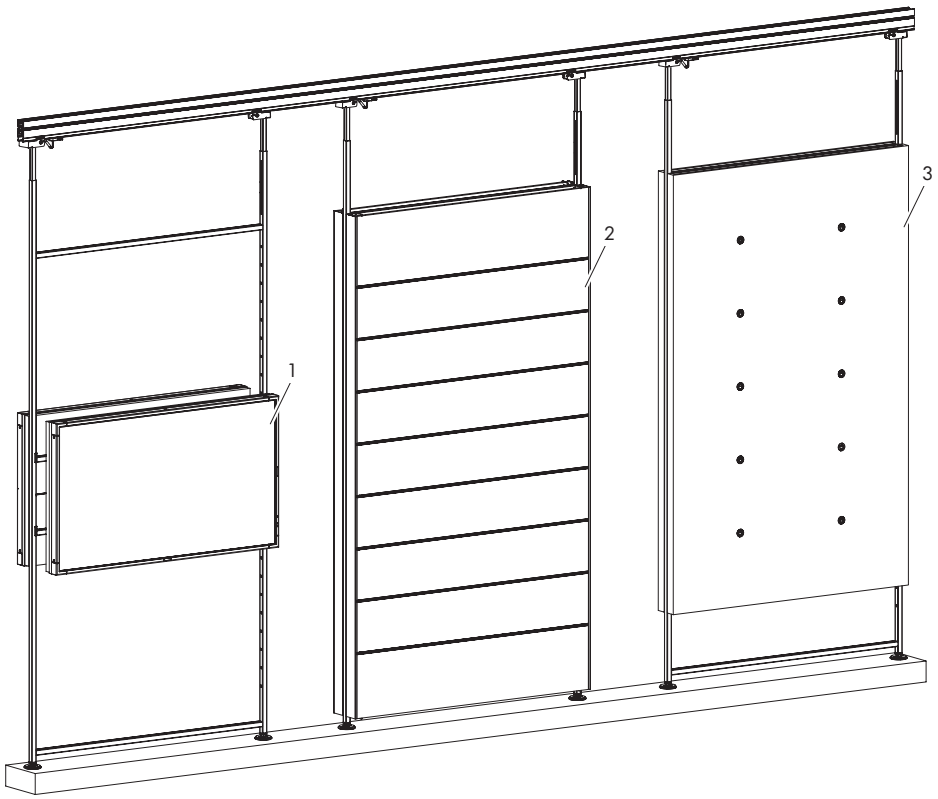
Only twist out the floor slider so that the merchandise support frame can no longer be moved on the floor.

The Multi-Lane profile must be mounted on the ceiling using a ceiling suspension mounting (318-545).

Alternative, the suspended mounting (994-019) is also possible, however the weight force of the Multi-Lane ceiling grid must be greater than the force generated by rotating the slider.

By rotating the slider upwards, the Multi-Lane ceiling grid must not be pressed upwards.

Recommended use



1	TV
2	Invisible P/L
3	Mono 20 P/L

5.3 Uprights with partition system

Connecting tube set assembly

Mounting the uprights with a connecting tube set for panels (2x D6 bore holes).
Drill holes must point upwardly/downwardly.

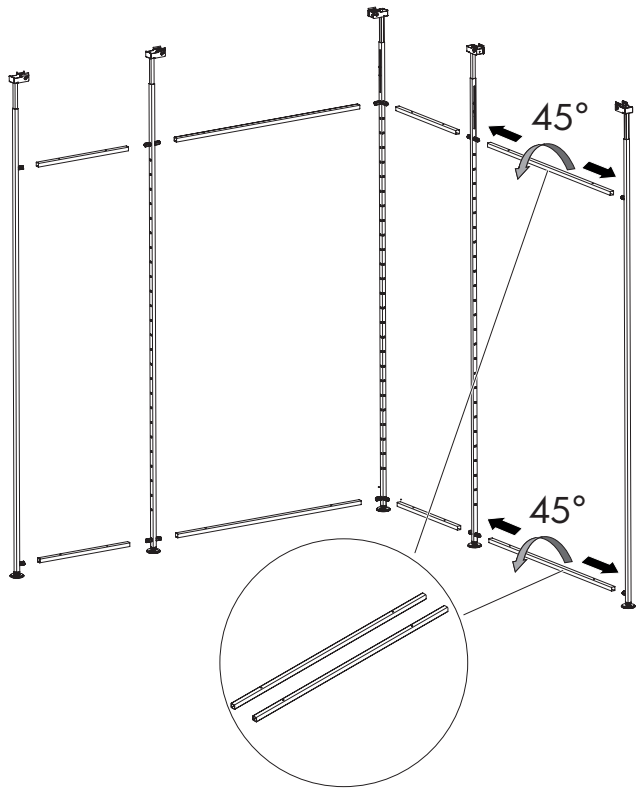
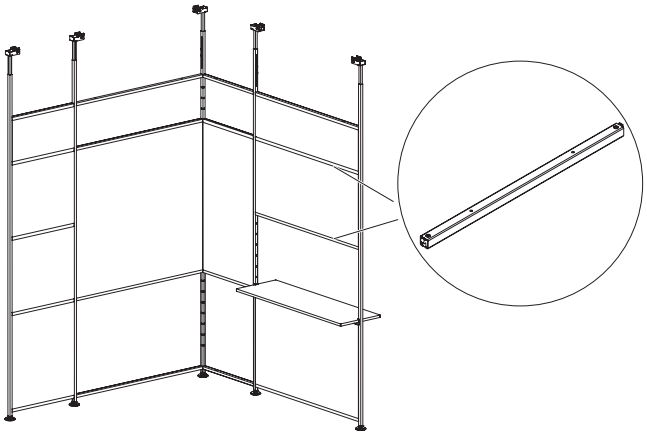
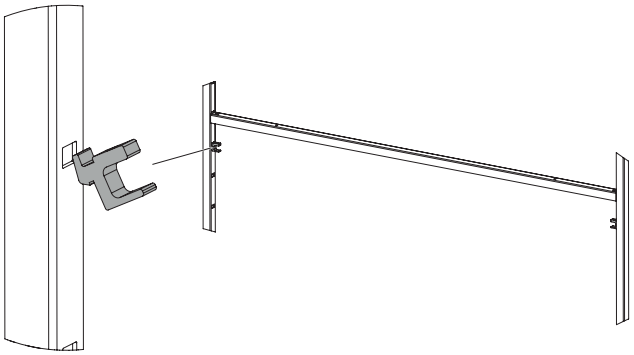


Fig. 64: Install connecting tube set

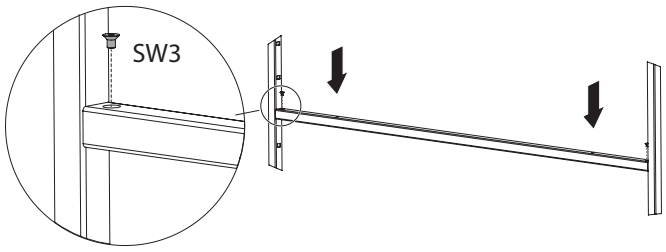
Suspended point panel assembly



1. Suspend the two hanging rail supports laterally into the uprights.

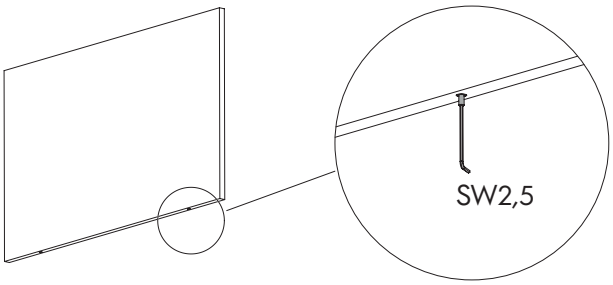


2. Set the hanging rail from top to bottom over the hanging rail supports.
3. Affix using the two countersunk screws.

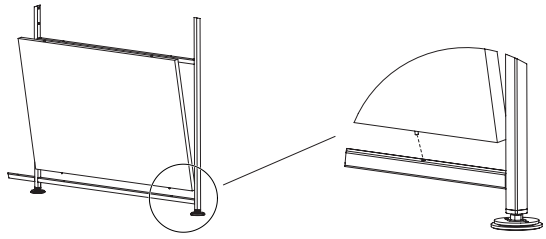


Assembly of panels

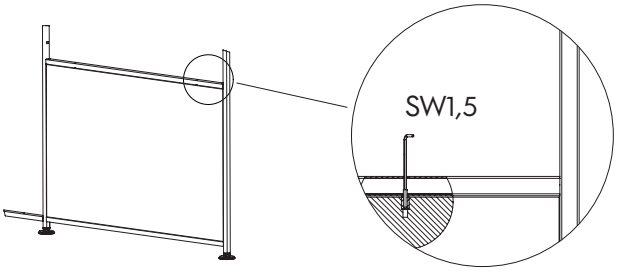
1. Unscrew the bottom two threaded pins with the aid of an Allen key (SW2.5) by about **10 mm**/0.394".



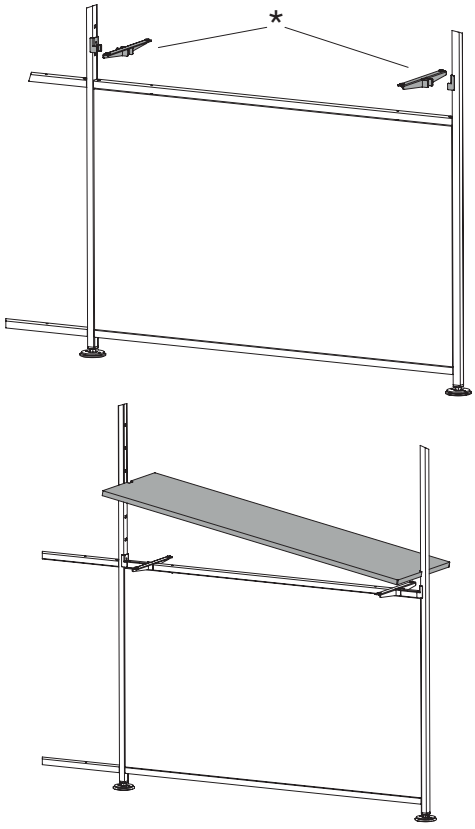
2. Guide the panels with the threaded pins at an angle into the designated bore holes.



3. Fold in the panels and unscrew the two threaded pins using an Allen key (SW1.5) by approx. **10 mm**/0.394".
   ➲ Thereby, the panels are secured.



Assembly of shelf on the suspended tube



*Plug-in shelf brackets (702758)

6 Operation of panels with sliding adapter

6.1 Attaching Grid 50 panel with sliding adapter

⚠ WARNING

Risk of injury from goods or merchandise supports falling down. 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 160 kg**/ 352.736 lbs **per frame.**
> **The merchandise supports must only be moved in the unloaded state.**

⚠ WARNING

Risk of injury from falling merchandise supports. During assembly, the merchandise support could fall down at any time.

> **The merchandise support must be firmly held during assembly.**

1. Loosen screws on one side using an SW4/SW5 Allen key and set the intermediate dimension to **55 mm**/2.165".

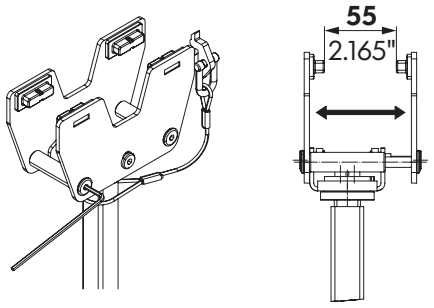


Fig. 65: Preparing the hanger adapter

2. With 2 people, align panel and set up vertically under the Multi-Lane rail.
3. Attach adapter as is described under „4.9 Attaching the suspended merchandise support frame with the sliding adapter".

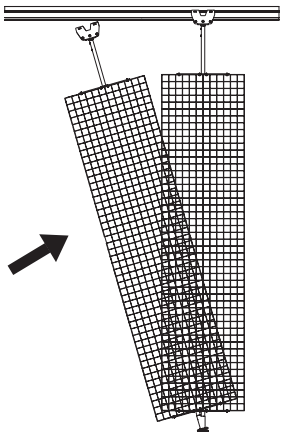


Fig. 66: Setting up panel

4. Actuate brake.
   The panel must be secured against falling over with the brake integrated into the adapter!
5. Align the panel vertically and rotate out the adjustable slider with an SW17 Allen key. The panel is clamped between the Multi-Lane rail and the floor. Check break action after several rotations (min. 5x). Re-adjust if necessary

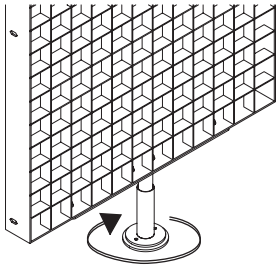


Fig. 67: Unscrew adjustable screws

⚠ WARNING

If the brake has not been pulled enough, the panel can fall over into the profile direction.

NOTE

Assembly must proceed according to the assembly instructions. Otherwise, the equipment may not work properly.

6.2 Removing Grid 50 panel with sliding adapter

⚠ WARNING

Risk of injury from goods or merchandise supports falling down. During dismantling, the merchandise support could fall down at any time.
> Hold the merchandise support firmly.

1. Loosen screws on one side using an SW4/SW5 Allen key until the lateral sliding elements are fully visible.

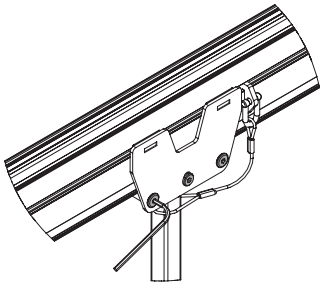


Fig. 68: Removing merchandise support

2. The two people, carefully pivot the panel in the profile direction and lay it down on the ground.

6.3 Attaching the panel receptacle with the sliding adapter

Attach as is described under „6.1 Attaching Grid 50 panel with sliding adapter".

The receptacle is designed for
plate size: **2454 mm x 400 - 1000 mm** /
96.614" x 15.748" - 39.370"
plate thickness: **25 - 38 mm**/0.984 - 1.496"

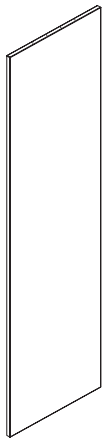


Fig. 69: Wooden panel

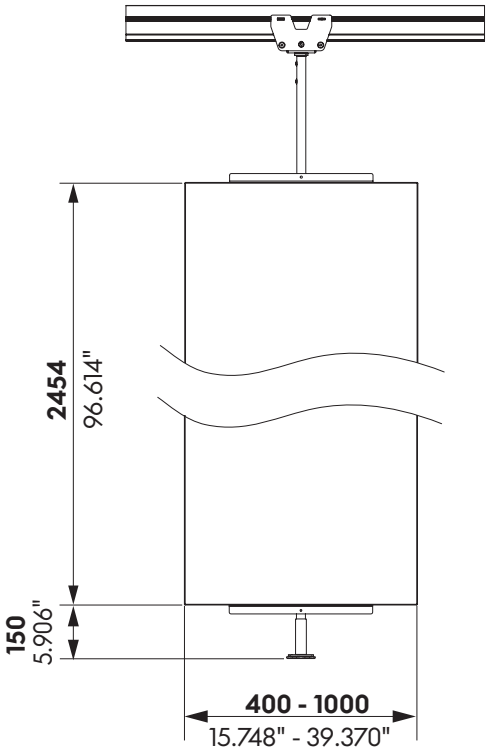


Fig. 70: Plate size

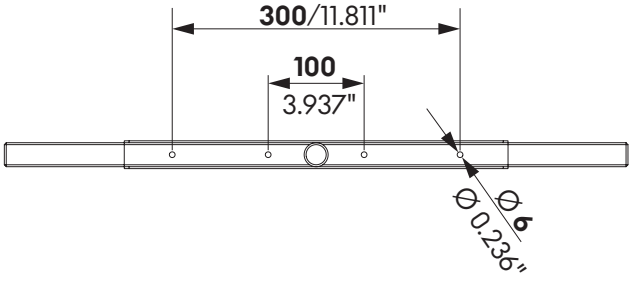


Fig. 71: Top and bottom screw attachment points

7 Operation of frame on castors

7.1 Attaching frame on castors with guide adapter

The frames are disassembled when delivered. The side parts are pre-assembled.

1. Mounting the connecting tubes to the side parts.

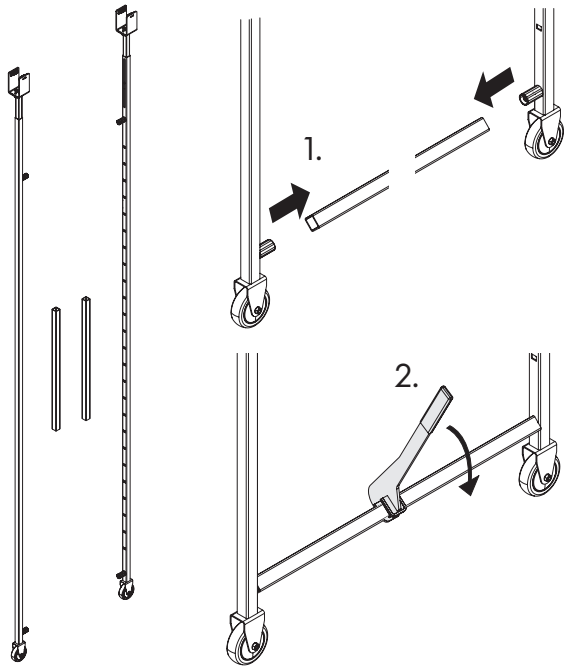


Fig. 72: Connecting the side parts to the tubes

NOTE

The connecting tubes must be rotated with the assembly tool 111-844.12 and positioned properly.

⚠ WARNING

Risk of injury from goods or frames falling down. The system can fail if the maximum permissible load of the frames is exceeded.

- > **Please note the maximum load value of the individual frames.**
- > **Do not exceed the maximum load of 120 kg**/264.552 lbs **per frame.**
- > **The fames must only be moved in the unloaded state.**

2. Slightly loosened the screws on the bottom of the guide and push the bracket to the side.

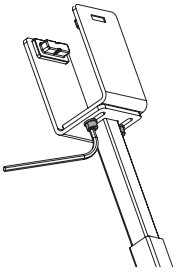


Fig. 73: Loosen screws

3. Said the guide upwards over the Multi-Lane rail and allow both sliding elements to lock into the lateral grooves. Push the brackets together and firmly tighten all screws (2x) with 10 Nm using the Allen key.

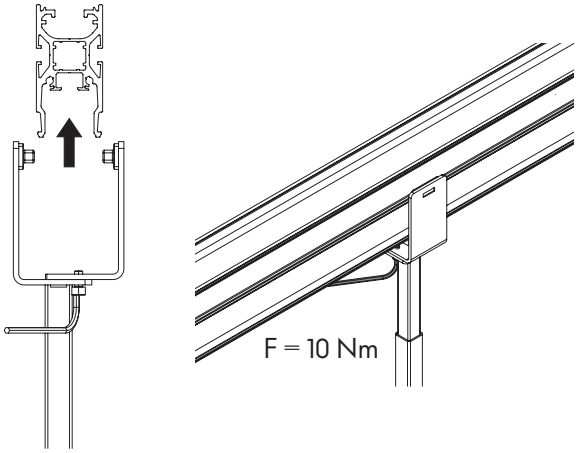


Fig. 74: Mount the guide on the rail

4. Align frame vertically.
   It must be ensured that the frame is standing vertically under the rail. Only then is smooth shifting possible.

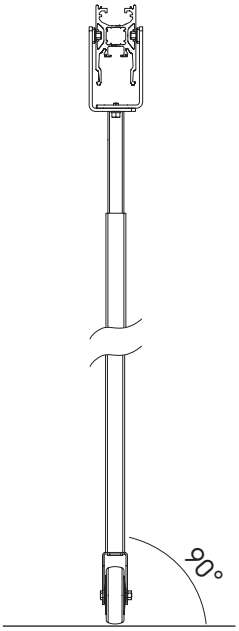


Fig. 75: Aligning frame.

5. Moving the frame
   for smoothly moving the frame, it is recommended to grab the vertical tube at its top half.

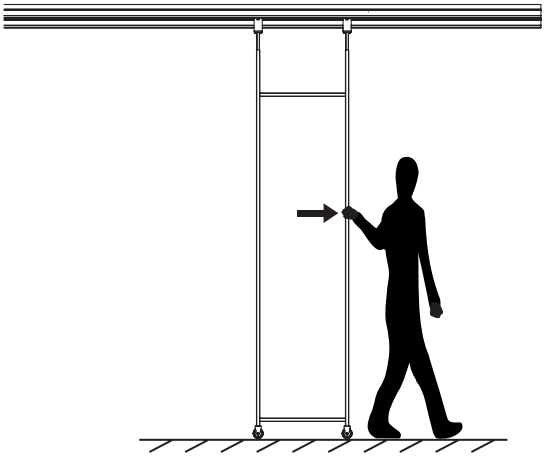


Fig. 76: Moving frames

7.2 Removing frame on castors with guide adapter

⚠ WARNING

Risk of injury from goods or frames falling down. The system can fail if the maximum permissible load of the frames is exceeded.

1. Slightly loosened the screws on the bottom of the guide and push the brackets to the side.
2. Lower the guide and carefully set the frame to the side with two people.

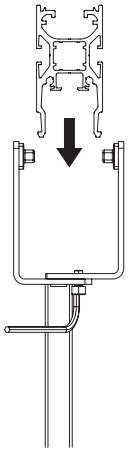


Fig. 77: Guide disassembly

7.3 Attaching frame to castors with 120 V cable conduit.

A channel with a built-in cable conduit can be mounted into the Multi-Lane track for the power supply of a slding frame.

The consumer can be connected to a GST 18 socket (1) within the frame.

Connection of the supply cable takes place using a multi-adapter (2) for 3-phase power tracks (Nordic Aluminium GA69).

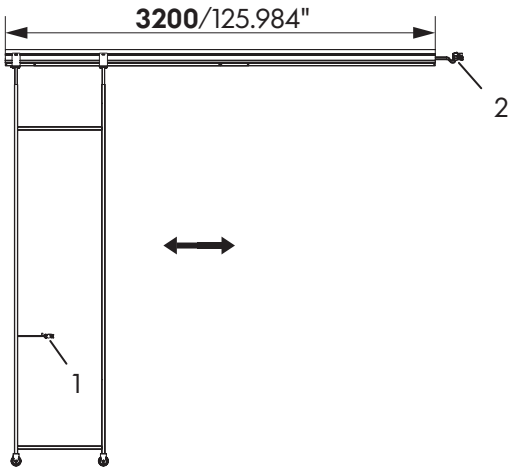


Fig. 78: Connection options

Installation of the cable channel with a cable conduit

1. Insert the channel from below into the grove of the Multi-Lane rail. Locking occurs via laterally protruding tabs. These must be bent out **2 mm**/0.079" prior to installing the channel

In this area of the cable conduit, no power track must be installed in the Multi-Lane rail.

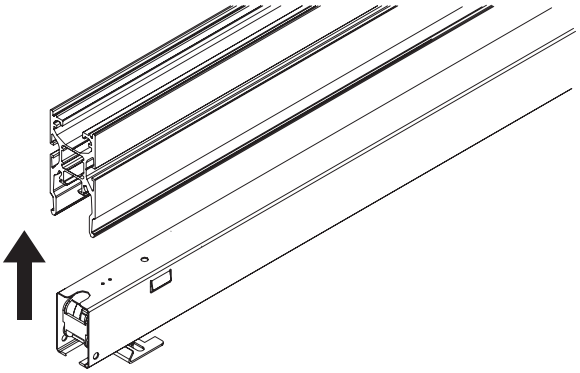


Fig. 79: Clipping the cable conduit into the Multi-Lane rail

2. Plug together the cable on the output of the cable conduit and the cable protruding out of the frame guide. Screw the assembly plate (1) onto the underside of the guide.
3. Installation of the frame guide as described at „7.1 Attaching frame on castors with guide adapter".

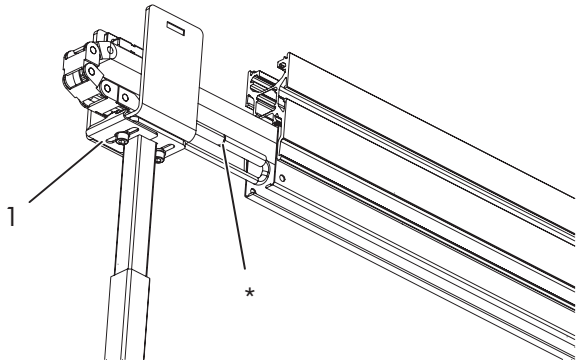


Fig. 80: Cable connection / *Plug connection

⚠ WARNING

Risk of injury from goods or frames falling down. The system can fail if the maximum permissible load of the frames is exceeded.

> **Please note the maximum load value of the individual frames.**
> **Do not exceed the maximum load of 160 kg**/352.736 lbs **per frame.**
> **The fames must only be moved in the unloaded state.**

7.4 Removing the frame on castors with the 120 V cable conduit.

See Section „7.2 Removing frame on castors with guide adapter".

8 Merchandise supports

8.1 Merchandise support suspension system

Suspending support frame for shelves and hanging rail

On the electrified merchandise support frame, only the tube that is connected to the converter is electrified.

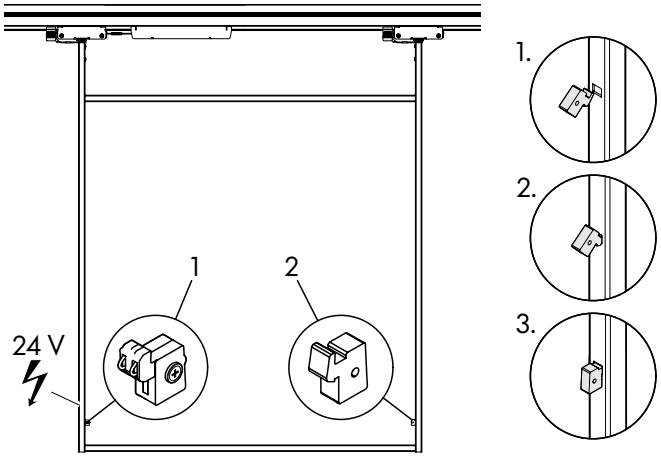


Fig. 81: Shelf support electrified (1), not electrified (2)

NOTE

Observe the position of the electrified shelf support (1).

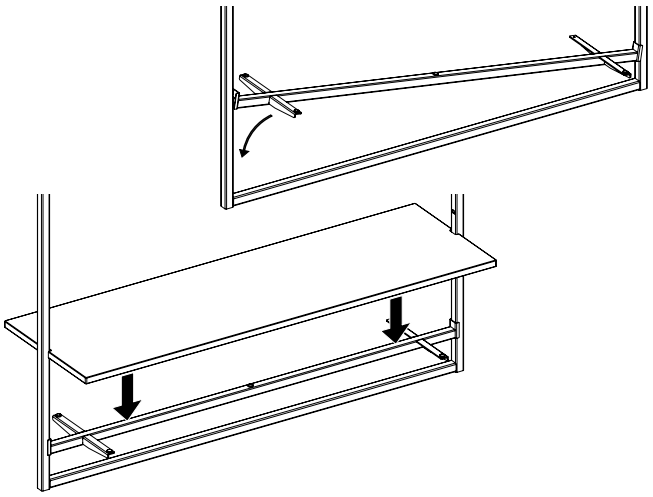


Fig. 82: Suspension system

Dimensions for glass shelves

Glass shelves have to be made according to drawing no. 704-278 (**1290 mm**/50.787") / no. 704-279 (**640 mm**/25.197"). The construction drawings are available to download in the product section at www.visplay.com.

Dimensions for wooden shelves

Wooden shelves have to be made according to drawing no. 704-280 (**1290 mm**/50.787") / no. 704-281 (**640 mm**/25.197"). The construction drawings are available to download in the product section at www.visplay.com.

8.2 Support frame for non-electrified shelf

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

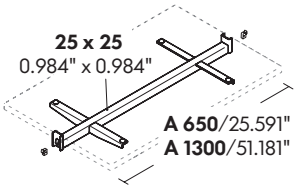


Fig. 83: Support frame for non-electrified shelf

Drawing number:
704-278 glass shelf **1290 mm**/50.787"
704-279 glass shelf **640 mm**/25.197"
704-280 wooden shelf **1290 mm**/50.787"
704-281 wooden shelf **640 mm**/25.197"

8.3 Support frame for electrified shelf

The support frames are used to install glass and wooden shelves. They are suspended between the wall uprights using shelf supports. The shelf support set consists of two supports, whereby one of them is used for power consumption. A 5 W/10 W LED light is built into the electrified support frame. The power take-up is on the left side.

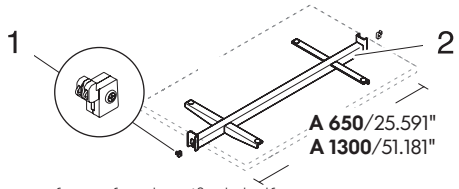


Fig. 84: Support frame for electrified shelf

NOTE

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 on the left-hand side.

Drawing number:
704-278 glass shelf **1290 mm**/50.787"
704-279 glass shelf **640 mm**/25.197"
704-280 wooden shelf **1290 mm**/50.787"
704-281 wooden shelf **640 mm**/25.197"

8.4 Hanging rail

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

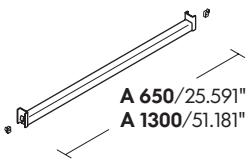


Fig. 85: Hanging rail

8.5 Hanging rail with front arms

The hanging rail is suspended between the wall uprights using shelf supports.

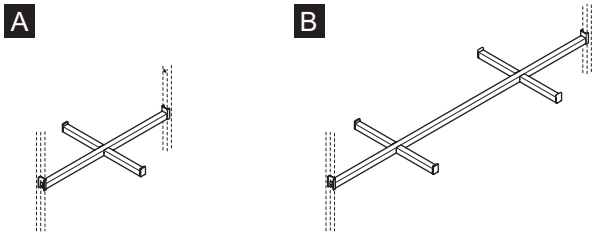


Fig. 86: Hanging rail with front arms

The hanging rails are available in the following configurations:

- Hanging rail with one front arm on both sides for **650 mm**/25.591″ axis (A)
- Hanging rail with two front arms on both sides for **1300 mm**/51.181″ axis (B)

8.6 LED suspension light

The LED suspension light is suspended between the merchandise support frames.

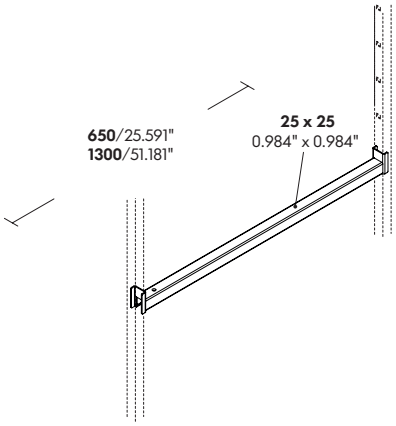


Fig. 87: LED suspension light

8.7 Plug-in shelf brackets

The plug-in shelf brackets are inserted via the lower connecting tube.

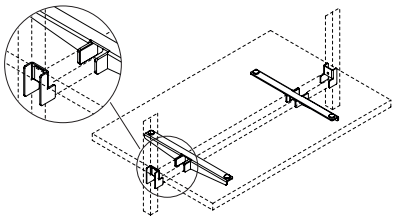


Fig. 88: Plug-in shelf brackets with anti-rotation device

8.8 Front arm, 25x25 L180 / 0.984”x0.984” l 7.087”

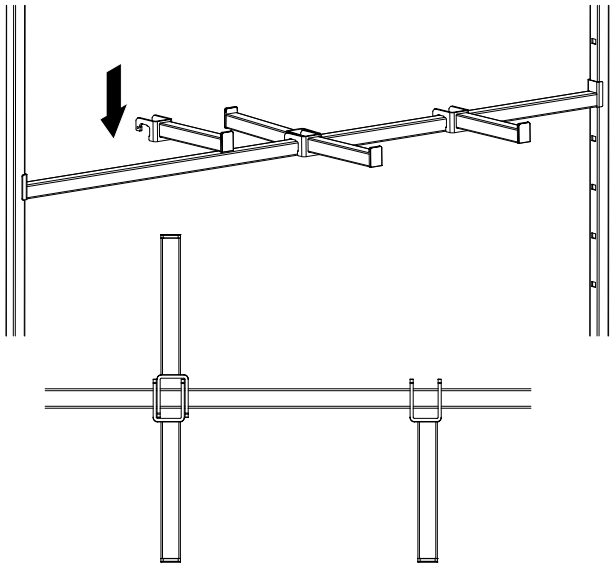


Fig. 89: Front arm

NOTE

For avoiding an inclination due to a lopsided load, use is only recommended for merchandise support frames when simultaneously using the floor mounting set or to ensure that the load is approximately symmetrical.

9 Accessories

9.1 LED spotlight

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

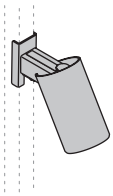


Fig. 90: LED spotlight

9.2 M8 universal adapter

The adapter consist of a clamping claw for clipping into the Multi-Lane rail, with a holding sleeve M8.

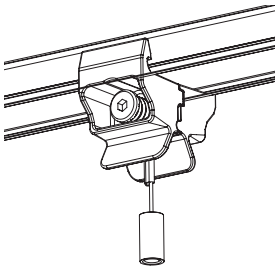


Fig. 91: M8 universal adapter

9.3 Power supply, 120 V

The power supply consists of a clamping claw for clipping into the Multi-Lane rail and a suspended cable with a 120 V shockproof socket. A mounting with a notch serves as a strain relief. Hereby, the freely suspended length of the cable can be varied.

The power supply makes it possible to connect electrical consumers to a power track built into the Multi-Lane rail.

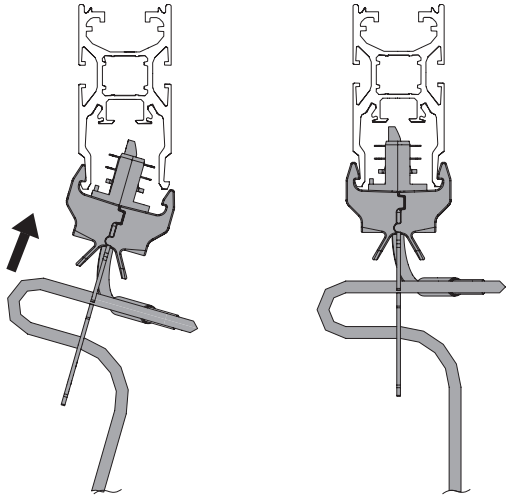


Fig. 92: Clipping in the clamping claw

The connection to the power track takes place via a multi-adapter for 3-phase power tracks (Nordic Aluminium GA69).

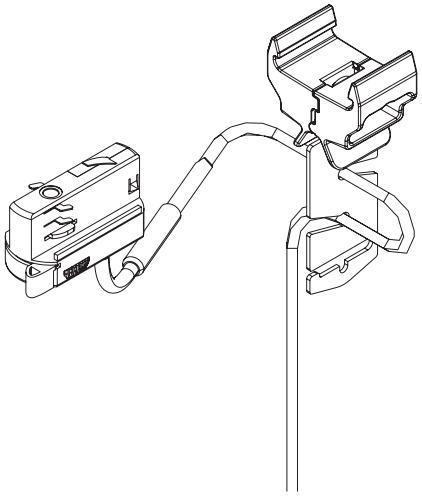


Fig. 93: Clamping claw with cable mounting

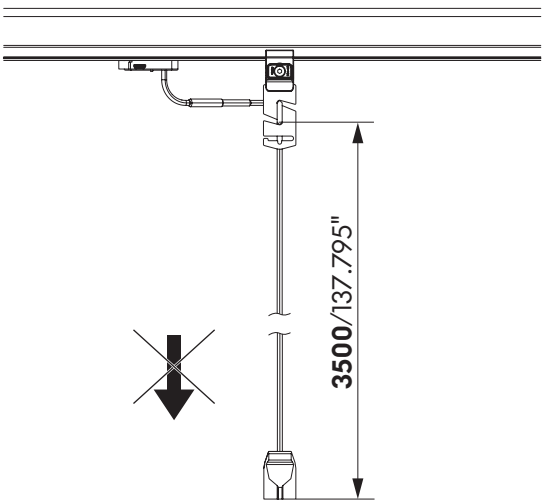


Fig. 94: Power supply 120 V AC

⚠ WARNING

The cable must not be used for carrying loads.

NOTE

Assembly must proceed according to the assembly instructions. Otherwise, the equipment may not work properly.

10 General information

10.1 Cleaning

During the course of time, dust and deposits from clothes hangers can settle on the merchandise supports. In order that the goods on display do not become soiled, the merchandise supports must be regularly cleaned.

1. Remove goods from the merchandise support.
2. Remove dirt on the merchandise support carefully with a soft, dry cloth.
3. Remove stubborn dirt with a mild cleaning agent.

10.2 Dismantling

1. Pull the power plug out of the power outlet.
2. Dismount converter and power distribution module (if present).

10.3 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 /73.4 °F
- Relative humidity: 50 %

10.4 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.**

- Send metal components for recycling or scrapping.
- Recycle plastic parts.
- Have an approved specialized disposal company dispose of electrical and electronic components.
- Dispose of other components according to their material characteristics.

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