

Beam EVO

Instructions for assembly and use

visplay

This manual is provided to ensure the safe and effective use of the “Beam EVO” product.

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

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

Installation must only be carried out by qualified personnel or by persons who have been instructed and are familiar with the installation of the Beam EVO system, and who have been trained in the relevant safety and installation guidelines.

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

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

All dimension information in the diagrams is quoted in mm and inches.

Quality assurance

All processes in our company are subject to a comprehensive management system that satisfies the requirements specified in the ISO 9001 quality standard and ISO 14001 environment standard.

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

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Our General Terms and Conditions apply for all orders.

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1 Safety

1.1 Hazard levels indicated by warning notices

The following hazard levels alert you to potentially dangerous situations:

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.

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 is designed exclusively to hold merchandise supports for displaying goods.

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 application

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.

The contents of the section on "Assembly" is directed at personnel, who undertake the assembly and the electrical connection (e.g. shop fitters, qualified electricians).

The contents of the section on "Handling" is directed at the end users (e.g. sales personnel, visual merchandisers).

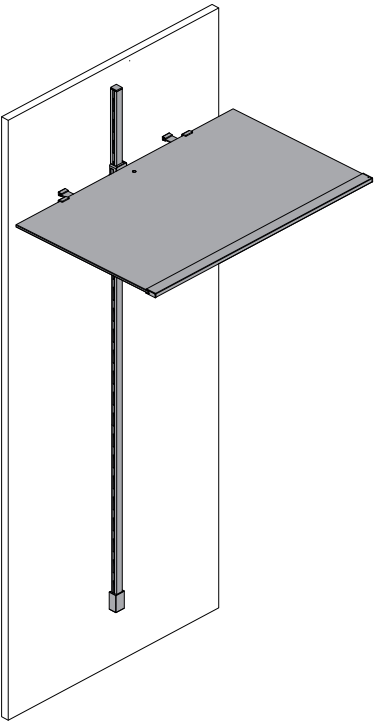
1.3 General hazards

- ▶ Use only approved accessories and electrical devices. Do not use any third party components.
- ▶ Do not undertake any modifications to the product.
- ▶ 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.
- ▶ If used incorrectly or cleaned with liquids, exposed parts may be live.
Tracks and adapters with visible damage must be disconnected from the power supply. An electrician must be notified immediately.
- ▶ Assemble or dismantle only when power plug is pulled out.
- ▶ The safety notices in these assembly instructions must be followed, as must the information on component labels.
- ▶ The indicated nominal current (max. 7 A) may not be exceeded.
- ▶ The user is responsible for ensuring that any connected equipment is electrically, mechanically and thermally compatible with the power track.
- ▶ Correct functioning and safety are guaranteed when properly used. No liability is accepted in the event of improper use.

2 Product description

Beam EVO incorporates the principle of the vertical support system into an understated wall solution. The system combines load-bearing capacity and design to create a clean, uncluttered look that organises the display whilst leaving space for different product ranges.

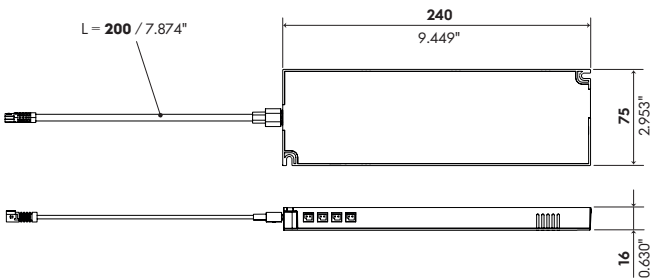
The modular system is designed with the user's perspective in mind: electricity is available wherever goods are stored. The merchandise supports draw their power via an integrated current collector, which is discreetly integrated into the profile and provides instant power. Light can be used in a targeted way without exposing additional technical equipment.



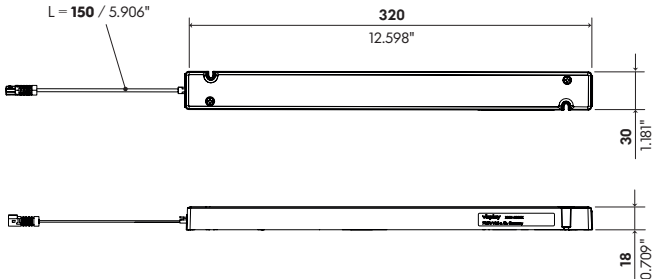
3 Technical data

3.1 Converter dimensions (dependent on power output)

96 W / 150 W converter



96 W slim converter



3.2 Connected electrical loads

Specification	Value
Input voltage	100-240 V AC
Frequency	50-60 Hz
Outlet tension	24 V DC
Power	max. 96 W / Int. 150 W (not US/CA)
Protection class	II
IP protection type	IP20
Maximum operating temperature	40°C
Maximum ambient temperature	25°C

3.3 Mechanical loads

WARNING

Risk of injury from falling objects and system components.

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

► Do not exceed the maximum permitted loads.

- The maximum load depends on the nature of the wall, on the number of fixing points as well as on the fixing material used.
- At least 10 fixing points are required per running metre of Beam EVO profile.
- The loads specified for the Beam EVO accessories always refer to the combined weight of the merchandise supports and the merchandise.
- Please note that the angle of the merchandise supports changes as the load increases. If the loads on the merchandise supports vary, this can result in an uneven presentation of the merchandise.
- Please also note the loads specified in our sales documentation.

Maximum load

Profile	per 1000 mm per fixing point	75 kg 15 kg
Shelf support bracket, 30 x 15 mm, with 24 V single power adapter, for wooden or glass shelf		20 kg
Glass shelf with LED luminaire for shelf support bracket		20 kg
Bracket, 30 x 15 mm, with 24 V single power adapter, electrified, for wooden and glass shelves	per bracket	20 kg
Glass shelf with LED luminaire for 30 x 15 mm bracket		20 kg
Bracket, 30 x 15 mm, for wooden and glass shelves	per bracket	20 kg
Support bracket, 30 x 15 mm, for wooden or glass shelf		20 kg
Front arm, straight, 30 x 15 mm		20 kg
Hanging rail 30 x 15 mm, 600 mm, T-Arm		20 kg
Bracket 25 x 5 mm for hanging rail 30 x 15 mm	per bracket	20 kg

4 Assembly

! WARNING

Risk of injury from falling goods or merchandise supports

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

- Note and comply with all the following instructions on assembly.
- Please observe the notes about loads and ensure that the substructure of the wall units, furniture and their fixtures can support the expected loads.
- When installing on glass panels, safety glass must be used.

! WARNING

Risk of injury

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

- The product has been installed correctly and all electrical consumers are assembled.

4.1 Assembly dimensions

The bore or thread spacing is 100 mm.

Use all fixing points (spaced at 100 mm) when screwing the profiles into place.

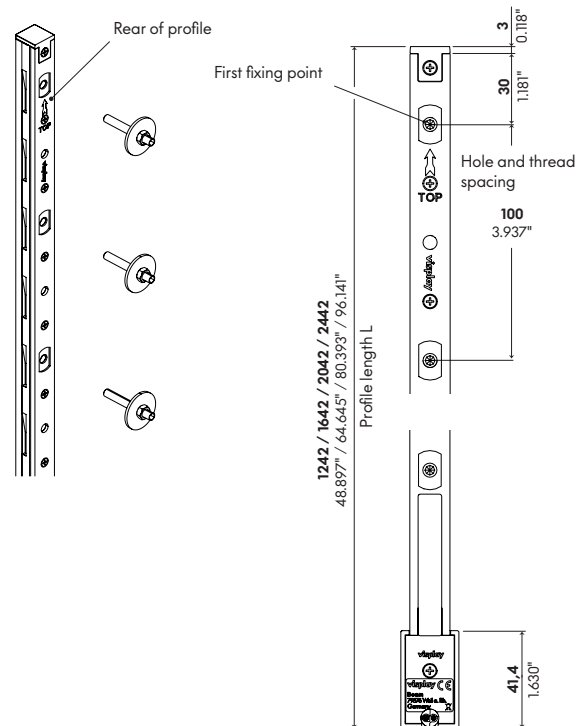
The first point is located 30 mm below the upper profile end.

To ensure that the entire back surface of the profiles has contact after assembly, the assembly base must be even and smooth.

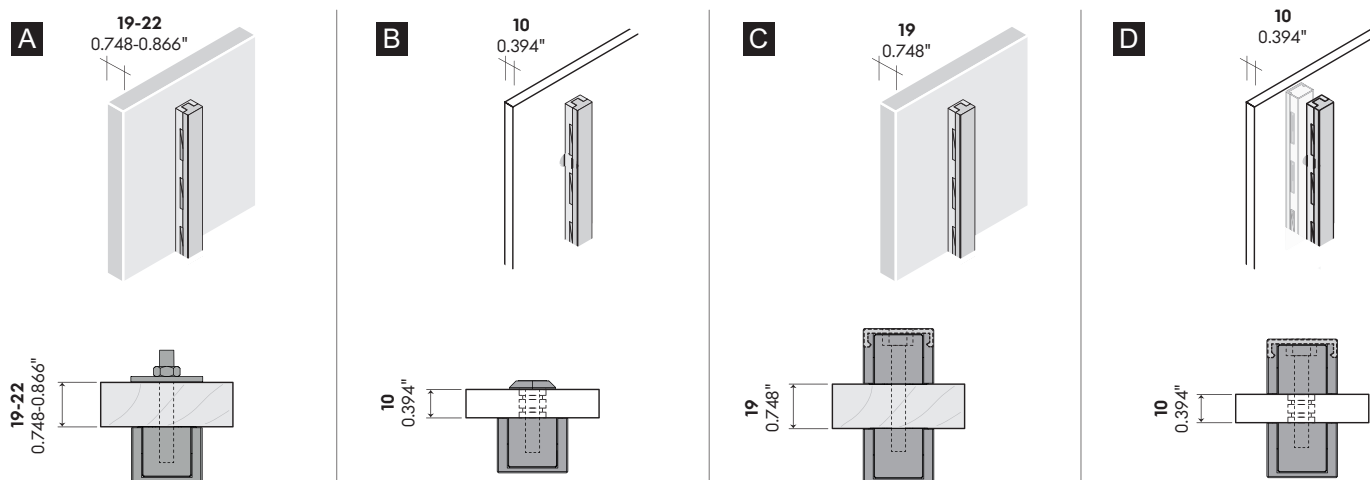
Make sure that all fastening screws (M5) are screwed into the aluminium profile thread by at least 7 mm. Use screws with special lengths for assembly to back walls with deviating thicknesses.



Pay attention to the alignment when installing the profiles:
TOP = up.



4.2 Assembly examples



- A** Rear assembly on wooden panels
- B** Rear assembly on glass panels
- C** Double-sided assembly on wooden panels
- D** Double-sided assembly on glass panels

4.3 Rear assembly on glass or wooden panels

On glass panels (A):

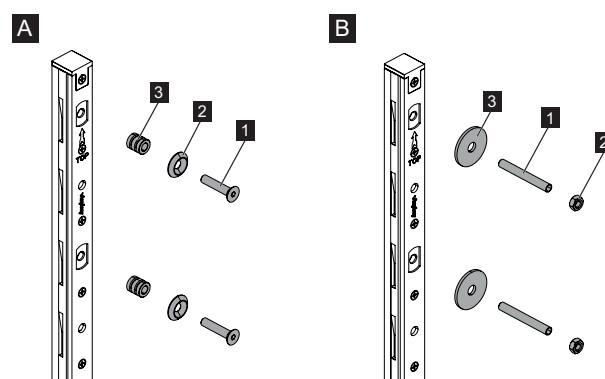
Beam EVO profiles are fixed on to the glass panel (10 mm) with countersunk screws (1), washers (2) and plastic sleeves (3).
Tightening torque: 2 Nm

Drill holes of Ø 10 mm must be provided in the panel for this purpose.

On wooden panels (B):

Beam EVO profiles are fixed on to the panel (19–22 mm) with set screws (1), nuts (M5) (2) and washers (3).
Tightening torque: 2 Nm

Drill holes of Ø 6 mm must be provided in the panel for this purpose.



4.4 Front assembly with cover profile

⚠ WARNING

Risk of injury from falling goods or merchandise supports

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

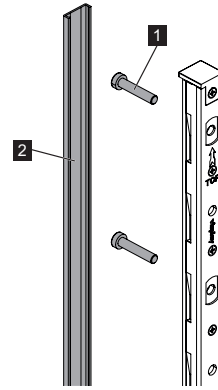
- ▶ Please observe the information concerning weight loading and ensure that the substructure of the wall units and their fixtures can support the expected loads.
- ▶ The correct size and type of anchor fixings must be used to suit the construction conditions.
- ▶ Check anchor fixing as specified by manufacturer.
- ▶ All mounting points must be used.

Depending on the wall type, the profile can be secured using various fixing materials.

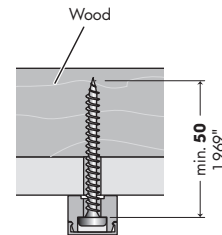
The maximum load of the profile depends on the nature of the wall, on the number of fixing points as well as on the fixing material used.

The Beam EVO profiles are fixed using M5 screws (DIN 7984) (1) or flathead wood screws.

For information on cover profile installation (2), see section 4.6.



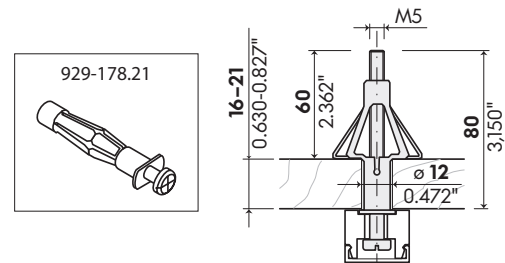
With wooden substructures, a screw length of min. 50 mm must be observed.



4.5 Front assembly on cavity walls

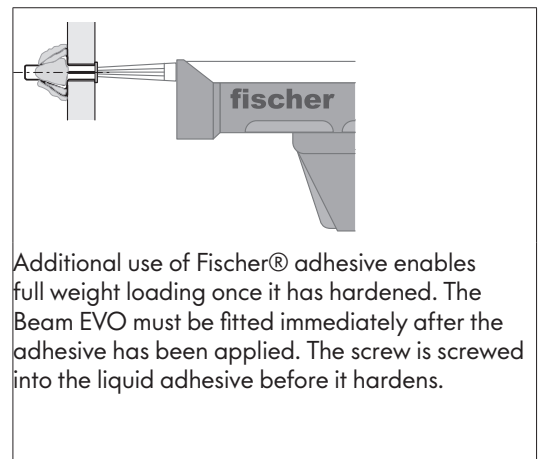
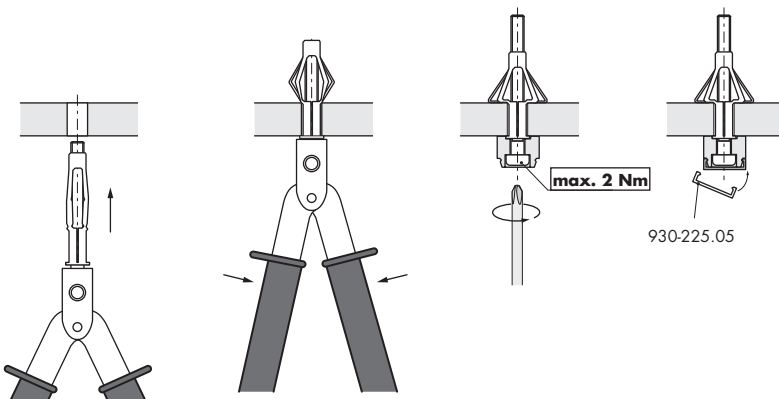
For front assembly on cavity walls, the fixing set 929-178.21 is to be used.

- ▶ Drill a hole using a 12 mm Ø drill bit.
- ▶ Insert cavity dowel (fixing set 929-178.21) using pliers (recommendation: Fischer® HM z1 cavity pliers) and expand.
- ▶ Unscrew the pre-assembled screw.
- ▶ Add Beam EVO profile and secure it with the screw provided.
- ▶ Assembly has been correctly completed when the screw has been tightened as far as possible (2 Nm).



NOTE

When using the fixing set (929-178.21), the maximum permissible load per front arm is reduced to 15 kg.



4.6 Installing the cover profile (for front assembly)

Insert one side of the cover profile into the groove of the Beam EVO profile, then press it into place on the other side or tap it gently with a wide-headed rubber hammer.

NOTE

Profile damage

- Tap evenly along the cover profile.

The cover profile must be secured with adhesive (silicone) to prevent it from slipping.

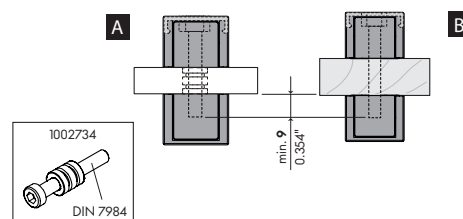
Note: Once a cover profile has been installed, it cannot be removed without causing damage.



4.7 Double-sided assembly

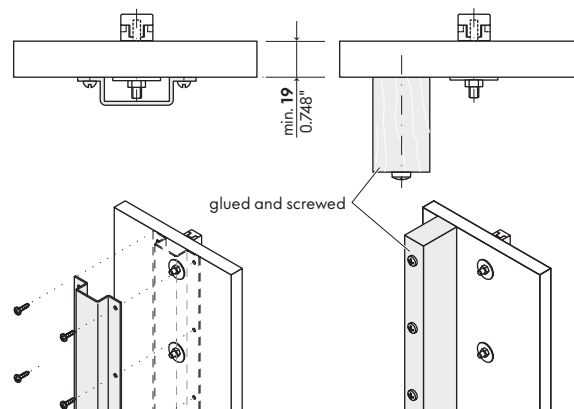
Beam EVO profiles can be fixed to glass (A) (10 mm) on both sides with invisible screw connections. The fixing set for glass panels 1002734 is to be used (drill holes in glass panel Ø 10 mm).

It is also possible to screw it in place on both sides of the wood (B). The screw length depends on the thickness of the wood and must be determined by the customer (e.g. panel 16 mm to 19 mm → M5x35, DIN 7984).



4.8 Reinforcing panels

Panels and sub-structures must be toughened against bowing. Wooden ledges or angle sections are suitable for this purpose.



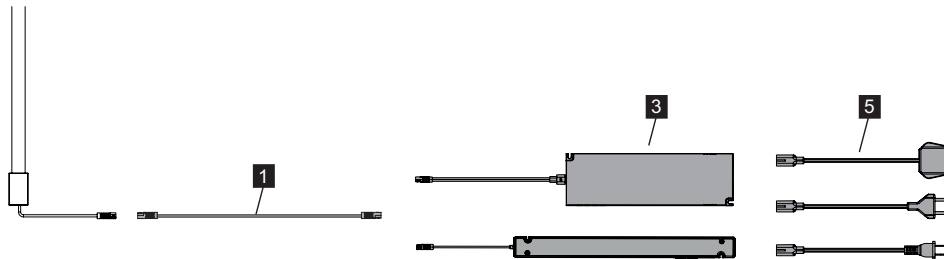
4.9 Electrification

Details of the electrified Beam EVO: Power track with power supply integrated into the system support profile.

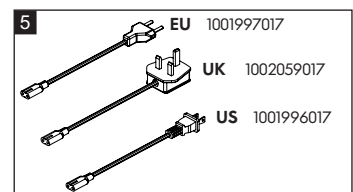
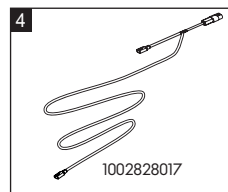
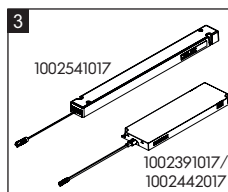
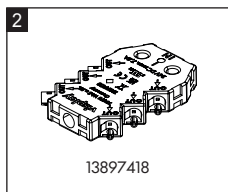
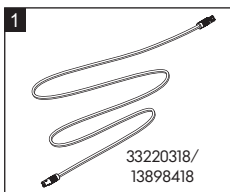
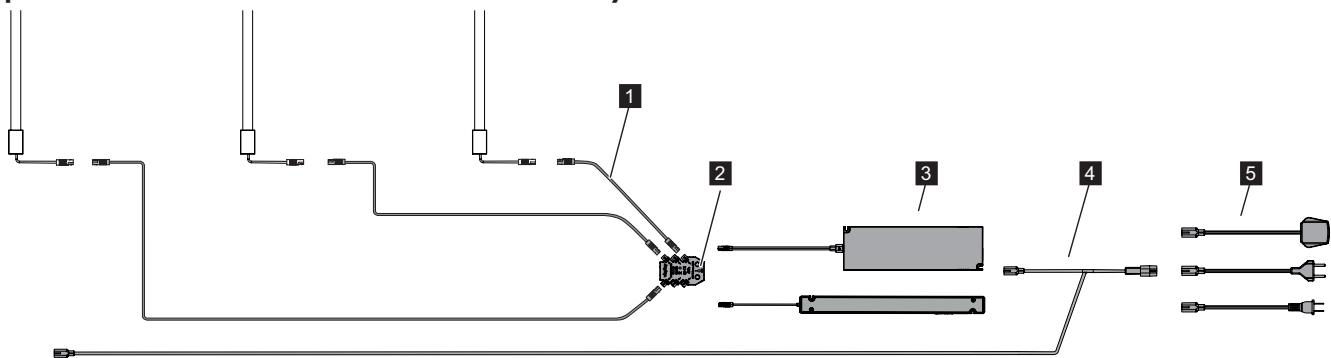
NOTE

It is imperative to take account of power consumption of the electrical devices! The power consumption of all electrical devices should be below the nominal output rating of the converter. It is generally recommended to factor in a power reserve for additional electrical devices.

Operation with a 96 W / 150 W converter



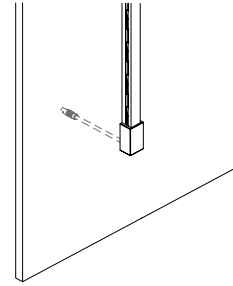
Operation with a 96 W / 150 W converter and 6-way distributor



- 1** Extension cable 24 V DC
- 2** 24 V DC distributor, 6-way
- 3** 96 W / 150 W converter or 96 W slim converter
- 4** Power cable splitter with extension cable 220 - 240 V AC
- 5** Supply lead 220-240 V AC for EU and UK / 120 V AC for US and CA

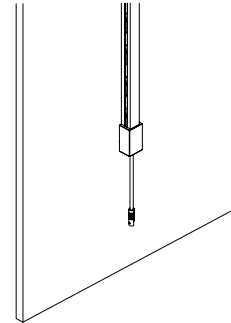
Cable routing to the rear

The power connection cables can be routed out of sight to the rear.



Cable routing downwards

The power connection cables can be routed downwards.



Cable channel for front assembly

If the cable is routed downwards, it can be covered with a channel.

The vertical and horizontal cable channels are suspended from flathead screws (max. D5) which are screwed into the panels. To feed the cable through the horizontal channel, break off the tabs.

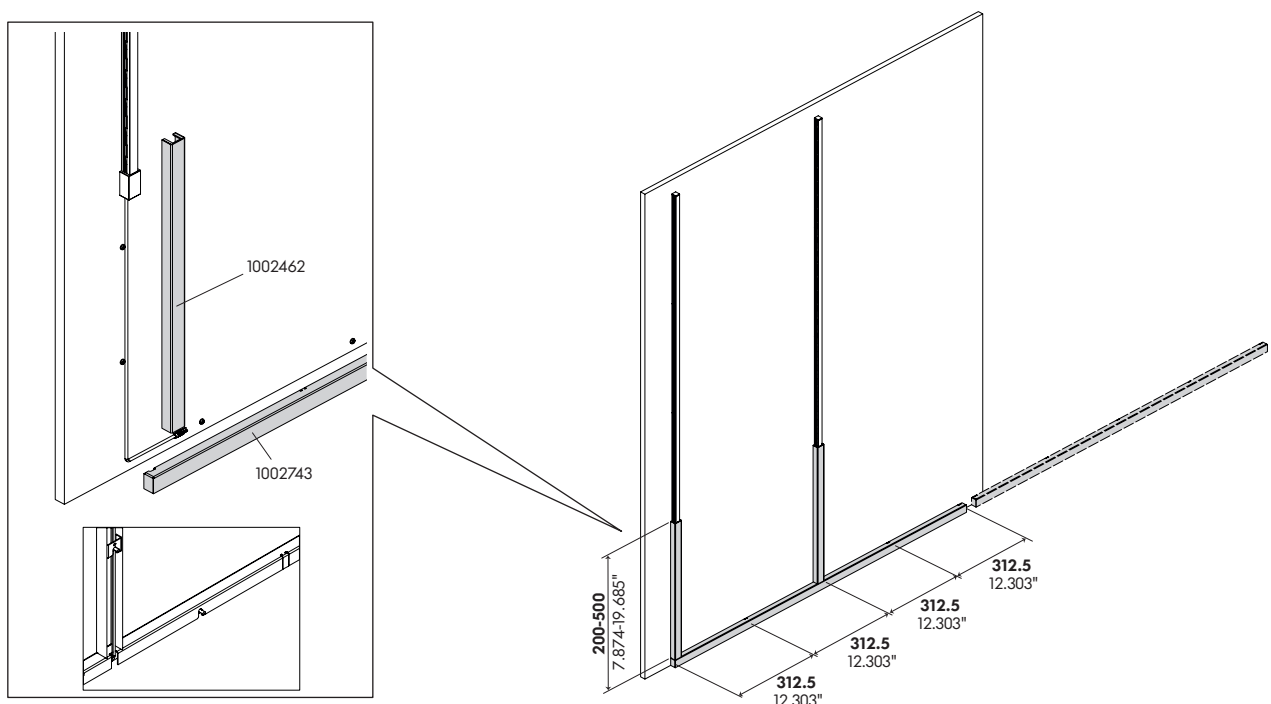
It can also be fixed in place using double-sided adhesive tape (on glass panels).



The vertical channel is 500 mm long. It can be cut to a length of up to 200 mm from the bottom using a saw.



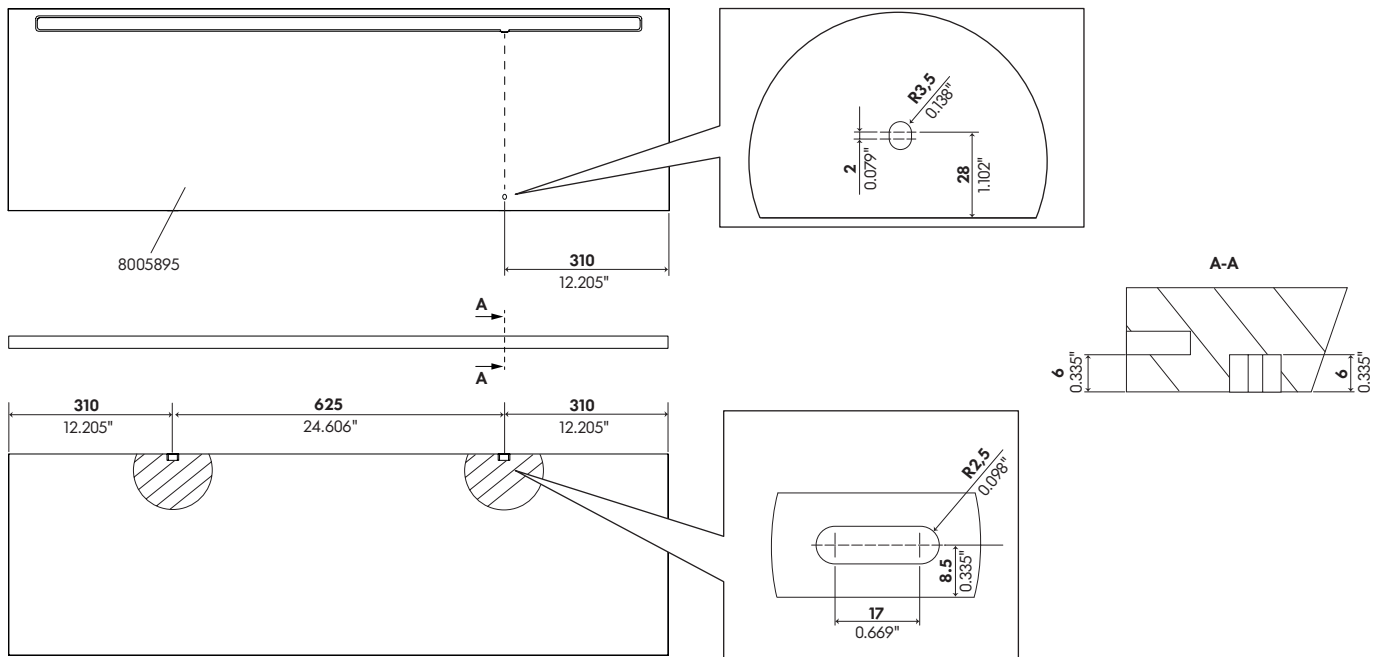
As an alternative to the horizontal channel, plastic channels (e.g. 20x20, manufactured by OBO Bettermann) with dimensions suitable for the vertical channel can be used.



4.10 Connecting an LED luminaire to wooden shelves for the 24x4 bracket

Milled grooves in the wooden shelf

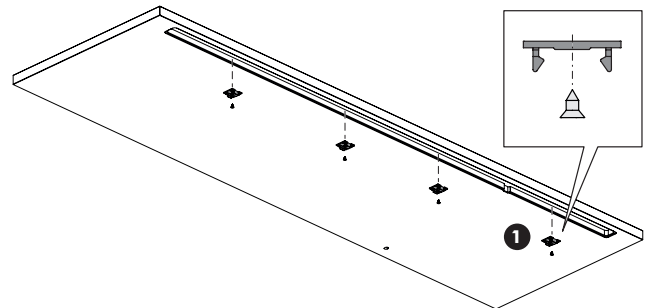
- Milling a hole and two grooves in the wooden shelf.



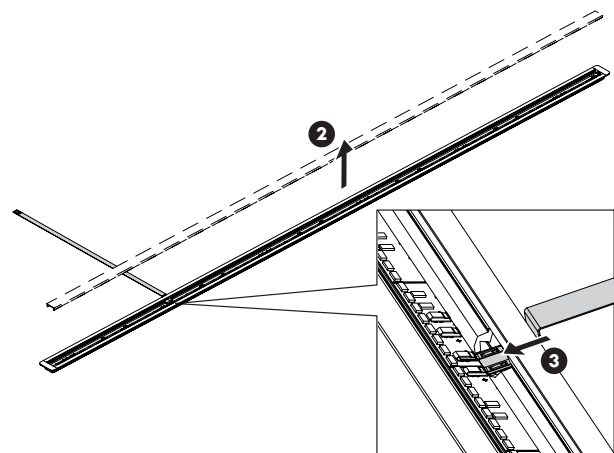
Attaching LED luminaire

The LED luminaire for wooden shelves is connected to a flat wire. This enables power to be transferred from the bracket to the shelf.

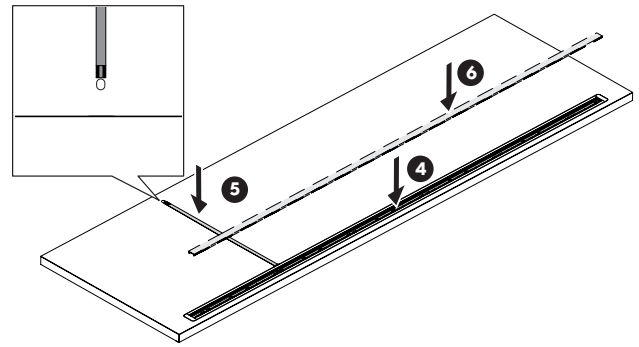
1. Secure the fixing clips to the shelf using countersunk screws.



2. Remove the LED luminaire cover.
3. Insert the flat wire in the luminaire, with the protruding contacts, into the terminals on the circuit board.

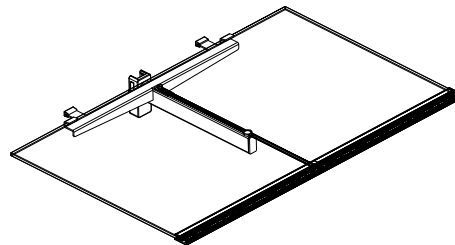
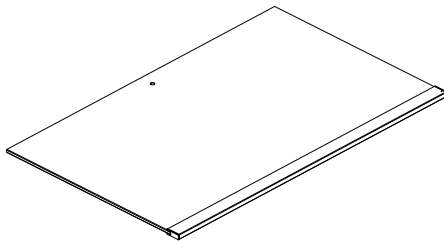


4. Press the LED luminaire into the wooden shelf.
5. Stick the insulated side of the conductor onto the shelf, up to the hole. Make sure the conductor is positioned centrally.
6. Press the LED luminaire cover into place.

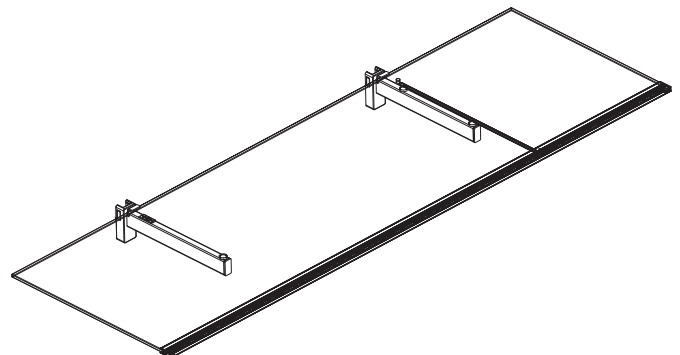
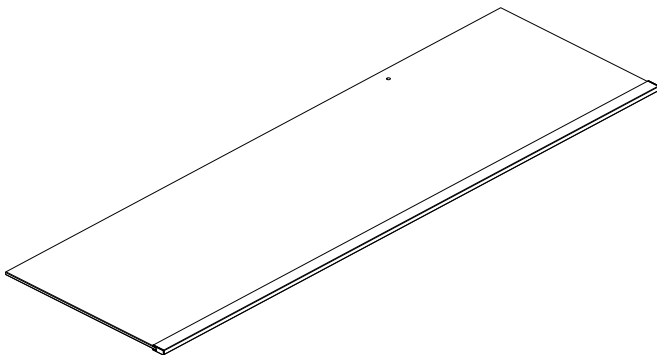


4.11 Accessories

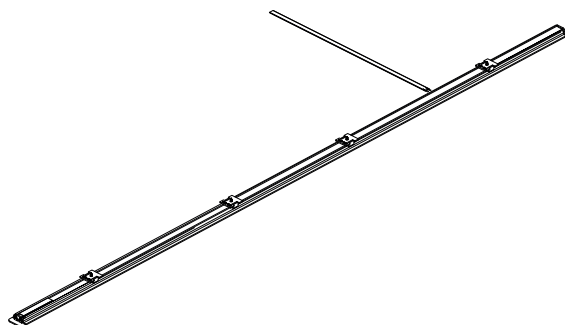
Glass shelf 620x380x6 with LED luminaire for 30 x 15 mm bracket



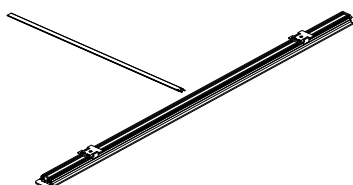
Glass shelf 1245x380x6 with LED luminaire for 30 x 15 mm bracket



LED luminaire L=1140 with flat wire for wooden shelf with 30 x 15 mm bracket



LED luminaire L=580 with flat wire for wooden shelf with support bracket



5 Operation

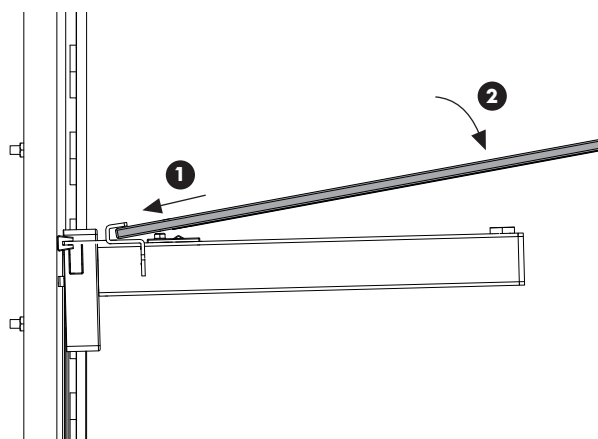
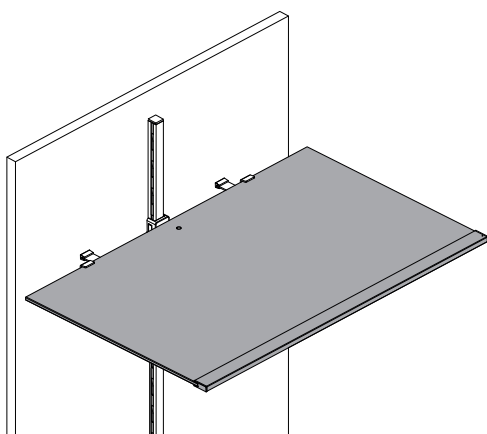
⚠ WARNING

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 permitted loads (see „3.3 Mechanical loads“).

5.1 Fitting the wooden and glass shelves

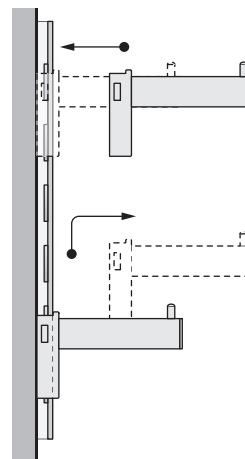


5.2 Changing the position of the merchandise supports

The height of the Beam EVO merchandise supports can be adjusted along the profiles in 50 mm increments.



Please note that the merchandise supports must be unloaded when adjusting their height. It is advisable to move the merchandise supports using both hands.



6 General information

6.1 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.

6.2 Storage

Store the product and its components under the following conditions:

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

6.3 Disposal

NOTE

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

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

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www.visplay.com

info@visplay.com