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**ASSEMBLY AND OPERATING
INSTRUCTIONS 2016**

RETAIL SYSTEMS

ISO 9001 / ISO 14001

The safety of retail systems by Vitra is tested by the TÜV Rheinland LGA Products GmbH. Non-electric products are certified by the GS mark: all relevant standards are fulfilled and technical norms are observed.

The safety of electric products is certified by the CE mark.

All processes in our company are subject to a comprehensive management system which corresponds with the ISO 9001 quality standard and the ISO 14001 environment standard.



Copyright ©

All retail products by Vitra and their names are protected by intellectual property rights. This protection is valid for the basic system along with the merchandise supports and accessories.

In the event of infringement, Vitra reserves the right to take legal steps.

- Our general conditions of delivery and sale are valid for all orders.
- We reserve the right to make technical and formal alterations.

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General Instructions

Assembly and operating instructions

Vitra 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 accessories 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 – please consult Vitra if there is a discrepancy with the Assembly manual

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 rods is essential.

This abrasion can be considerably reduced by using a coat hanger cover (scliss, 929-449.02).

No responsibility can be accepted for damage caused by soiling, as the above mentioned abrasion depends on the material of the coathangers in use.

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

Vitra merchandise supports with anodised aluminium surfaces are hard-wearing. However, the exchange of accessories might cause slight marks on the surface.

Accessories 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. Then remove any loose or greasy 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 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 be rinsed off using a sponge and clear water. Then rub off the part with a chamois.

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MONO 6

ASSEMBLY AND OPERATING INSTRUCTIONS

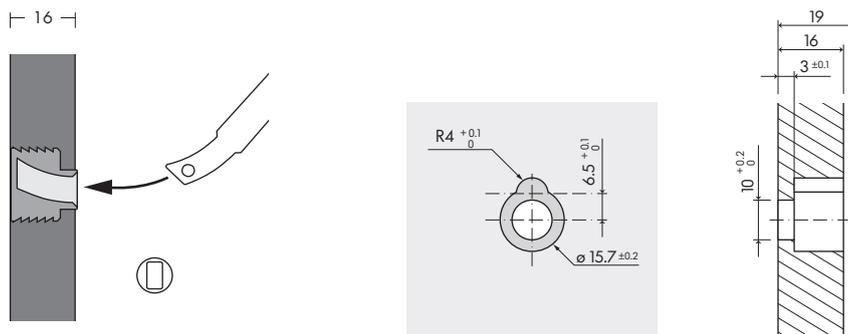
Assembly dimensions / Layout

The choice and arrangement of the holder sets must be adapted to the respective assortment and expected load.

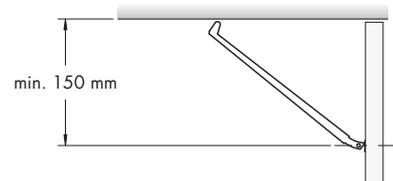
- ⓘ Please observe the indications concerning weight loading and ensure that the substructure of the wall units/furniture and their fixtures can support the expected loads.
With free-standing furniture, ensure that there is sufficient stability even with the intended merchandise supports

Assembly dimensions

Wood: 16–19 mm



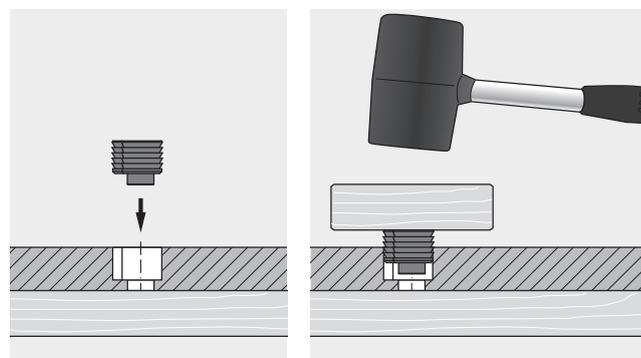
- ⓘ Min. clearance height for top holder must be a min. of 150 mm, so as to allow fitting of top arm.



Assembly instructions

Insert Mono holder into the back of the panel using a rubber hammer or a press-fitting device. Place a board under the front of the panel when installing the holder.

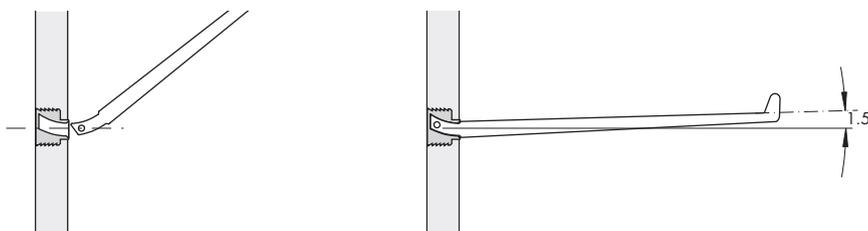
When using lower strength panel material, we recommend that the socket is glued into place.



Instructions of use

With Mono 6, the merchandise support must be inserted as far as the limit stop when fitted in the holder.

Merchandise support slightly inclined (1.5°).



Weight loading

- ⓘ The indicated weight loads are always based on the total weights of the merchandise support and goods.
Please observe weight that max. loading decreases as the merchandise support increases in length.
Please observe that the inclination of the merchandise support changes with an increase in load. Different weights on the merchandise supports produce an uneven overall appearance of the goods display.
Please also observe the weight loads indicated in our sales documentation.

Max. load

Holder	per holder	1 kg
Hook		1 kg
Eyewear holder		0.5 kg
Bracket	per bracket	1 kg

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MONO 12

ASSEMBLY AND OPERATING INSTRUCTIONS

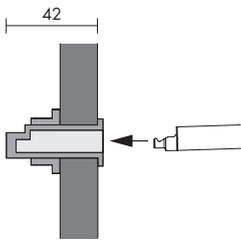
Assembly dimensions / Layout

The choice and arrangement of the holder sets must be adapted to the respective assortment and expected load.

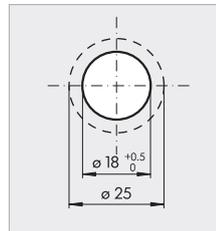
! Please observe the indications concerning weight loading and ensure that the substructure of the wall units/furniture and their fixtures can support the expected loads.
 With free-standing furniture, ensure that there is sufficient stability even with the intended merchandise supports.
 When installing in glass, safety glass must be used.

Assembly dimensions Mono 12

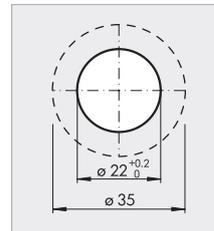
Wood: 10–20 mm
 Safety glass: min. 10 mm



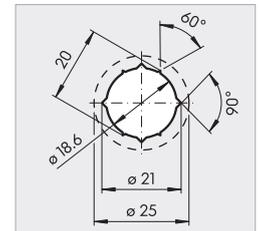
wood



glass

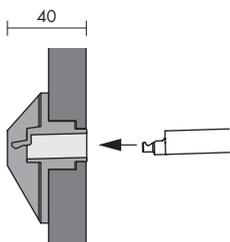


metal

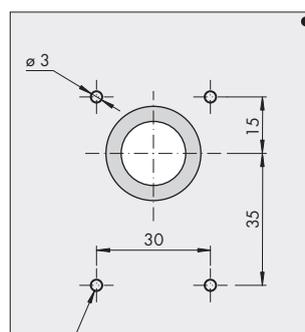


Assembly dimensions Mono 12 Q

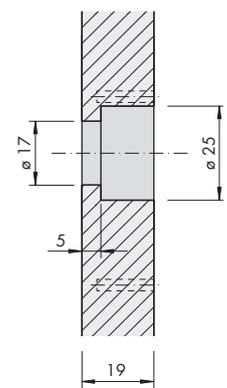
Wood: 19 mm



Rabbet size for wood

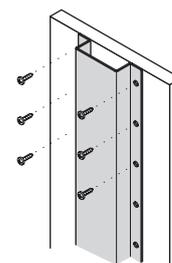


! Depth of drilling on the back 10 mm

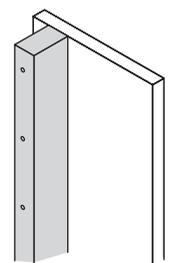


Layout

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

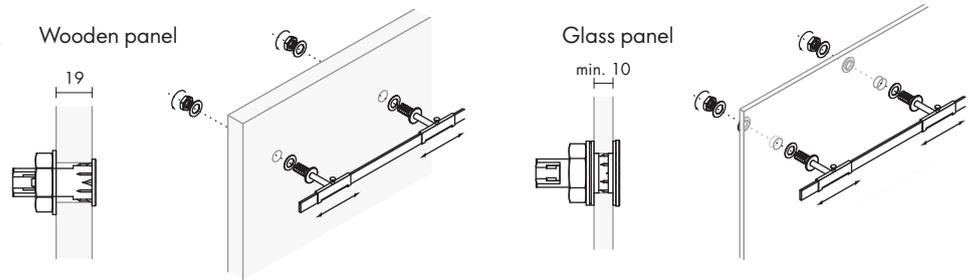


glued and screwed



Assembly instructions

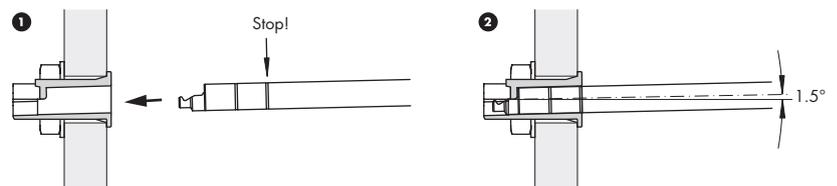
Insert holder from the front and bolt together from behind.



! When fitting Mono 12 in wood and glass, please use an assembly template for example. When screwing into glass, a torque of max. 25 Nm is to be observed.

Instructions of use

With Mono 12, the merchandise support is inserted horizontally into the socket until the catch point. Merchandise support slightly inclined (1.5°).



Weight loading

! The indicated weight loads are always based on the total weights of the merchandise support and goods. Please observe that max. weight loading decreases as the merchandise support increases in length. Please observe that the inclination of the merchandise support changes with an increase in load. Different weights on the merchandise supports produce an uneven overall appearance of the goods display. Please note that the weight limit can reduce considerably when Mono 12 is used in glass and sheet metal. Please also observe the weight loads indicated in our sales documentation.

Max. load

Holder Mono 12 (wood)	per holder	15 kg
Holder Mono 12 (glass)	per holder	10 kg
Holder Mono 12 Q (wood)	per holder	8 kg
Front arm Ø 12 mm		10 kg
Bracket for hanging rail Ø 15 mm	per bracket	10 kg
Bracket Ø 12 mm for wooden or glass shelf	per bracket	10 kg

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MONO 20

ASSEMBLY AND OPERATING INSTRUCTIONS

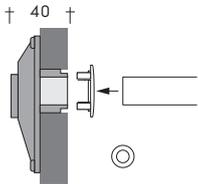
Assembly dimensions / Layout

The choice and arrangement of the holder sets must be adapted to the respective assortment and expected load.

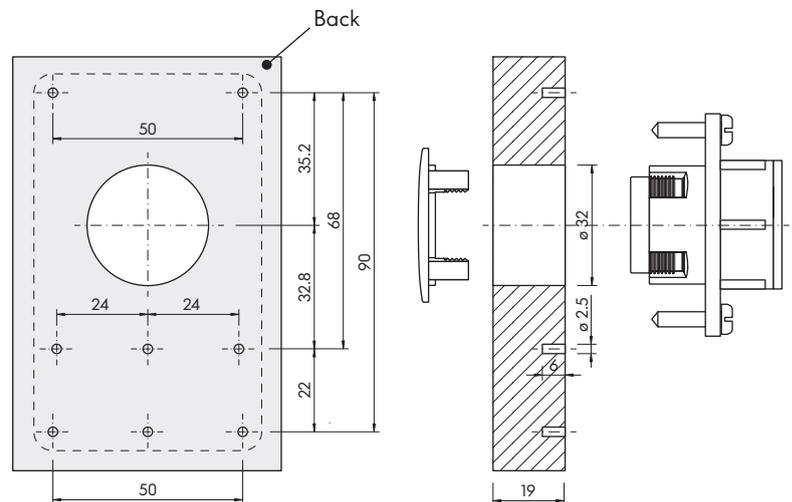
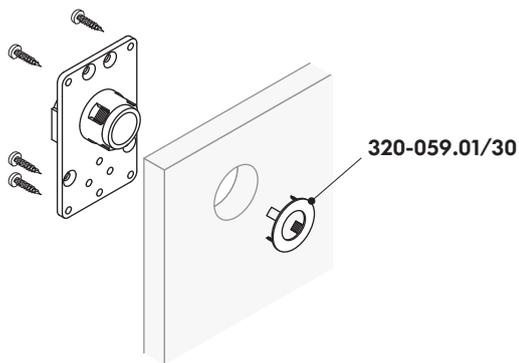
- ⚠ Please observe the indications concerning weight loading and ensure that the substructure of the wall units/furniture and their fixtures can support the expected loads.
With free-standing furniture, ensure that there is sufficient stability even with the intended merchandise supports.

Dimensions of drill hole

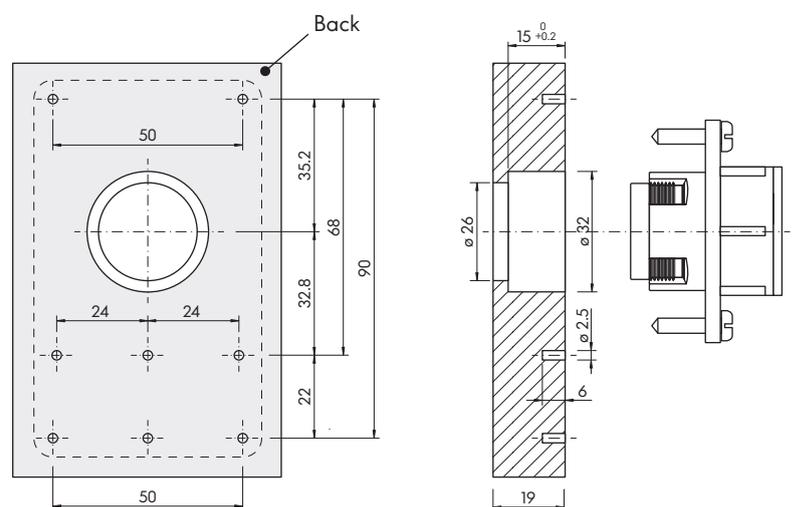
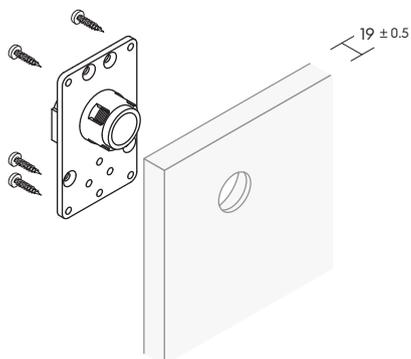
Panel: 19 mm



Var. 1: 320-056.00



Var. 2: 320-056.01 / 320-056.30

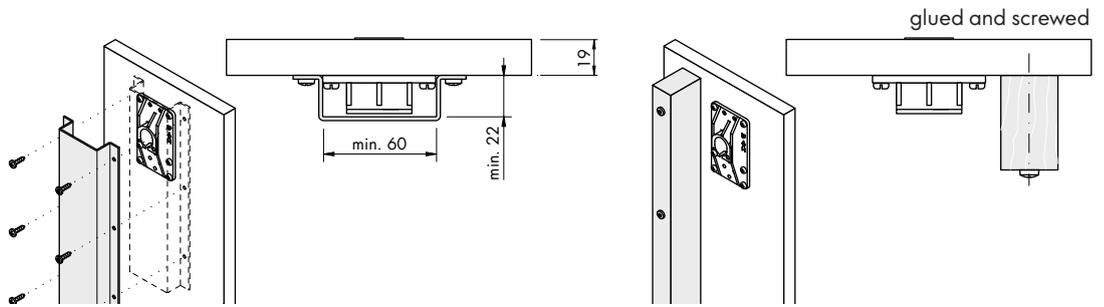


Mono 20

Assembly and operating instructions

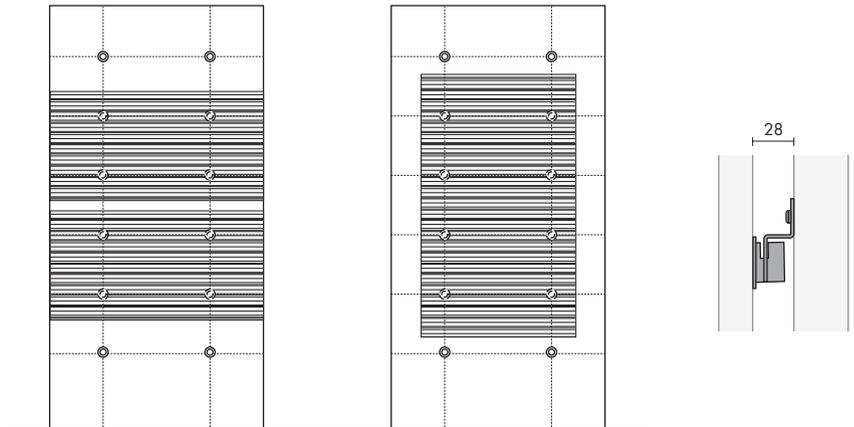
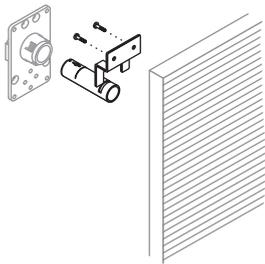
Layout

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



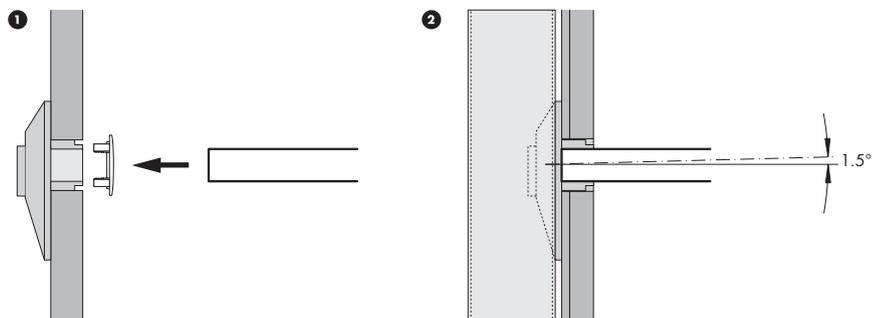
Fixing set for Mono 20 holder

To be screwed to the back of wooden panels.



Instructions of use

With Mono 20, the merchandise support is inserted horizontally into the socket until the catch point. Merchandise support slightly inclined (1.5°).



Weight loading

! The indicated weight loads are always based on the total weights of the merchandise support and goods. Please observe that max. weight loading decreases as the merchandise support increases in length. Please observe that the inclination of the merchandise support changes with an increase in load. Different weights on the merchandise supports produce an uneven overall appearance of the goods display. Please also observe the weight loads indicated in our sales documentation.

Max. load

Holder	per holder	40 kg
Front arm Ø 20 mm		20 kg
Hanging rail (T-arm)		15 kg
Bracket for hanging rail Ø 20 mm	per bracket	15 kg
Bracket for hanging rail 30 x 15 mm	per bracket	20 kg
Brackets (glass/wooden shelf)	per bracket	15 kg
Clamp bracket for glass shelf	per bracket	10 kg
Shelf support bracket		15 kg
Support bracket for wooden shelf	per bracket	15 kg
Fixing set		20 kg

Mono 20

Assembly and operating instructions

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MONO R 4

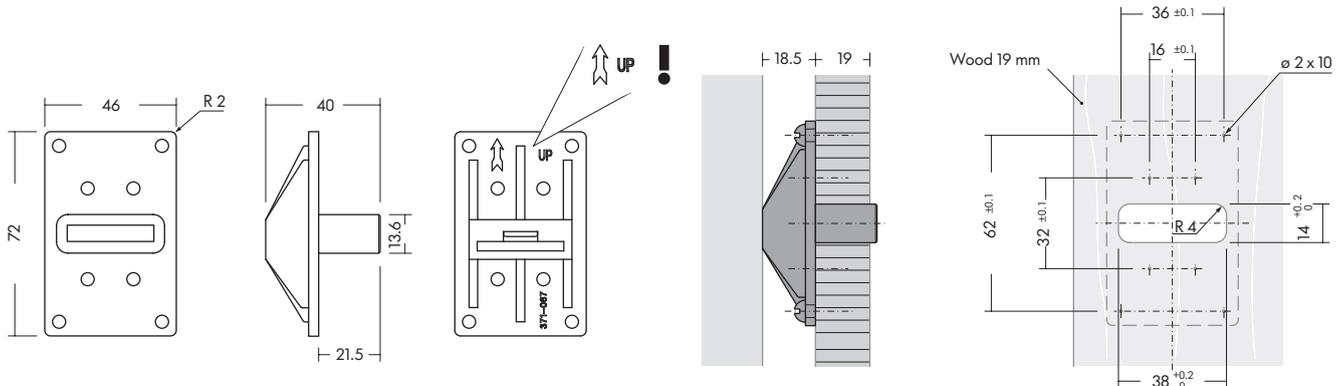
ASSEMBLY AND OPERATING INSTRUCTIONS

Assembly dimensions / Layout

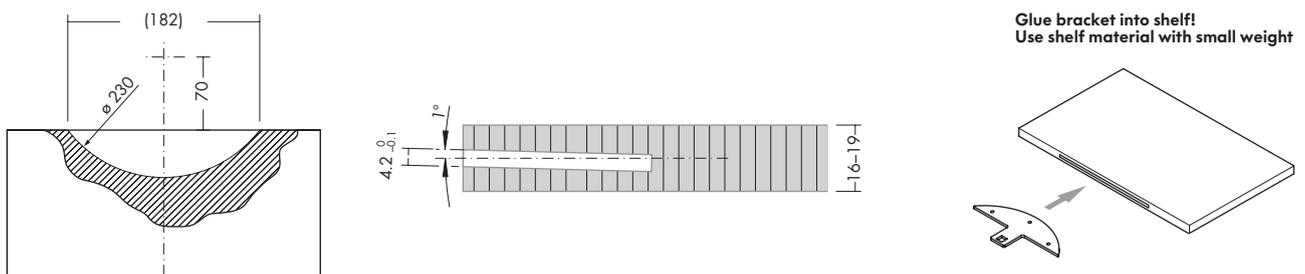
The choice and arrangement of the holder sets must be adapted to the respective assortment and expected load.

- ❗ Please observe the indications concerning weight loading and ensure that the substructure of the wall units/furniture and their fixtures can support the expected loads.
With free-standing furniture, ensure that there is sufficient stability even with the intended merchandise supports.

Assembly dimensions Mono R 4 holder set

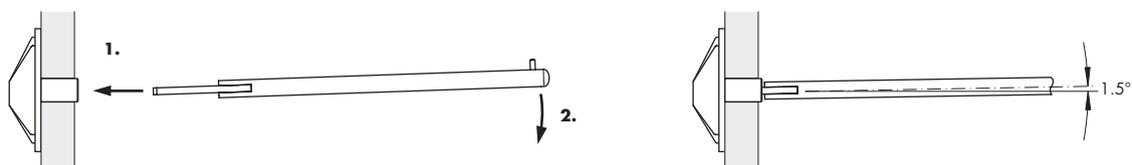


Shelf dimension for bracket



Instructions of use

The Mono R 4 merchandise supports are inserted into the holders at a slight angle until the limit stop is reached. Then lower the merchandise supports. Check that the merchandise supports are correctly clicked into the profile. Merchandise support slightly inclined (1.5°).



Weight loading

- ❗ The indicated weight loads are always based on the total weights of the merchandise support and goods.
Please observe that max. weight loading decreases as the merchandise support increases in length. Please observe that the inclination of the merchandise support changes with an increase in load. Different weights on the merchandise supports produce an uneven overall appearance of the goods display.
Please also observe the weight loads indicated in our sales documentation.

Max. load

Holder set	per holder	5 kg
Shoe shelf for sideways display		2 kg
Shoe shelf for frontal display		2 kg
Shoe carrier		2 kg
Bracket	per bracket	2 kg
Clamping bracket	per bracket	2 kg
Front arm straight Ø 8 mm		2 kg

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MONO 55

ASSEMBLY AND OPERATING INSTRUCTIONS

Mono 55

Assembly and operating instructions

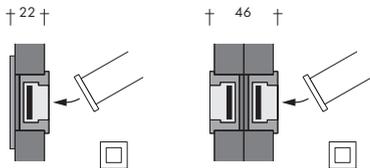
Assembly dimensions / Layout

The choice and arrangement of the holder sets must be adapted to the respective assortment and expected load.

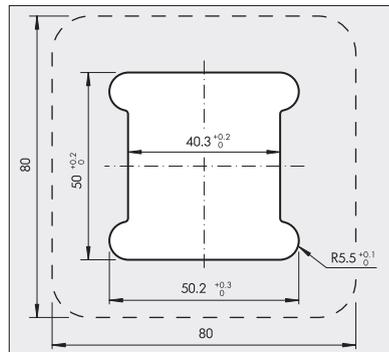
❗ Please observe the indications concerning weight loading and ensure that the substructure of the wall units/furniture and their fixtures can support the expected loads. With free-standing furniture, ensure that there is sufficient stability even with the intended merchandise supports.
When installing in glass, safety glass must be used.

Assembly dimensions Mono 55

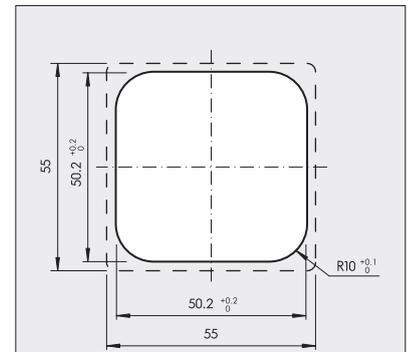
Wood: 19 mm
Safety glass: min. 10 mm



Rabbit size for wood/metal

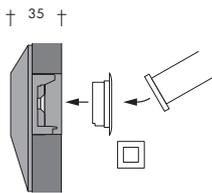


Rabbit size for glass

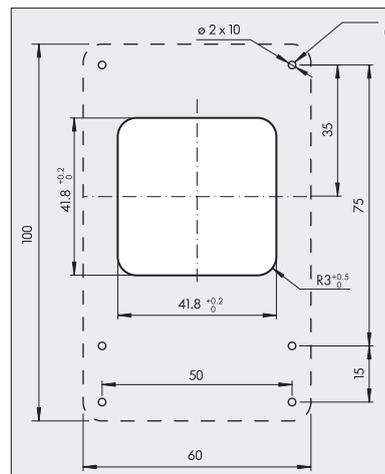


Assembly dimensions Mono 55 Q

Wood: 19 mm



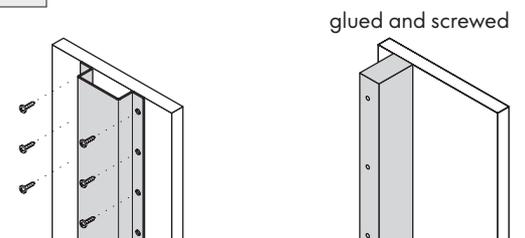
Rabbit size for wood



❗ Depth of drilling on the back 10 mm

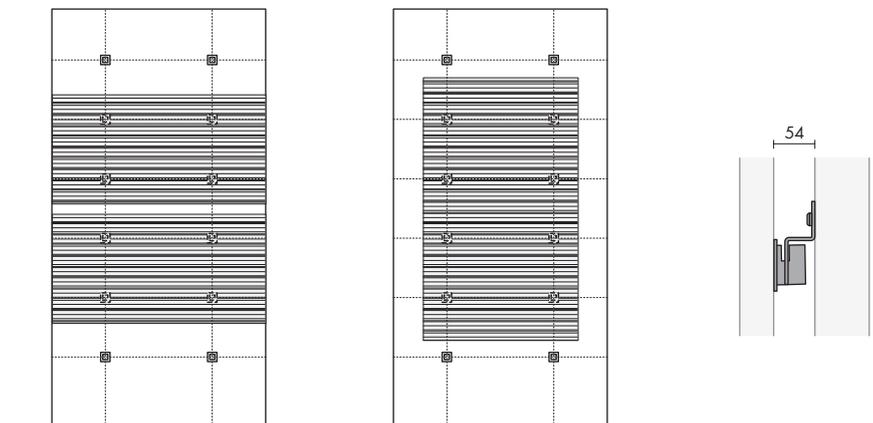
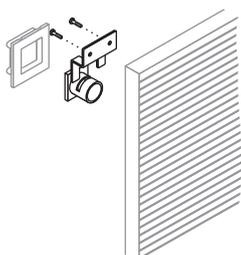
Layout

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



Fixing set for Mono 55 holder

To be screwed to the back of wooden panels.



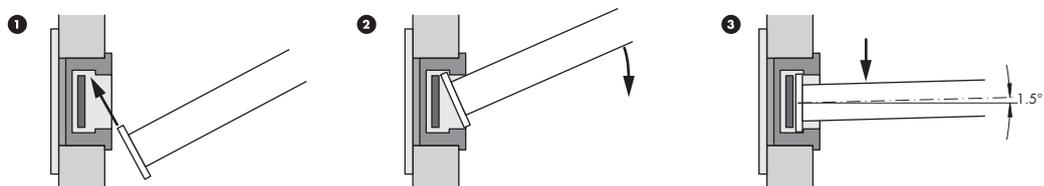
Mono 55

Assembly and operating instructions

Instructions of use

With Mono 55, the stop plate of the merchandise support is inserted into the upper slot of the socket, tipped down and then lowered into place.

Merchandise support slightly inclined (1.5°).



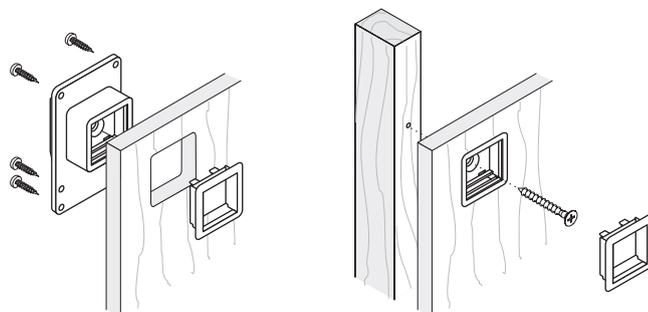
Assembly instructions

Mono 55 holders can be fitted in two different manners.

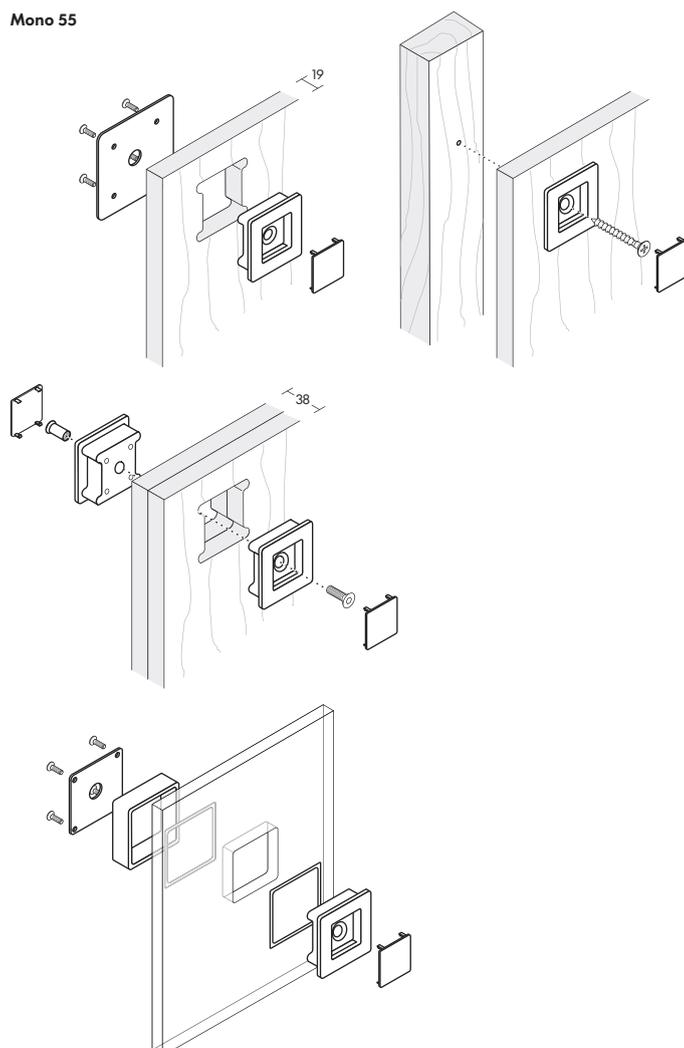
- Mono 55: Insert holder into the panel from the front and bolt together from behind.
- Mono 55 Q: Insert holder from behind and bolt together from behind.

Also screw panel to substructure through hole in the centre of the holder. Then cover with plastic cover cap.

Mono 55 Q

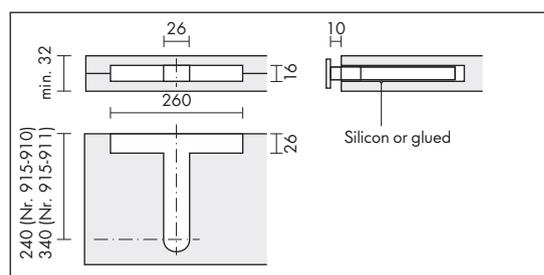
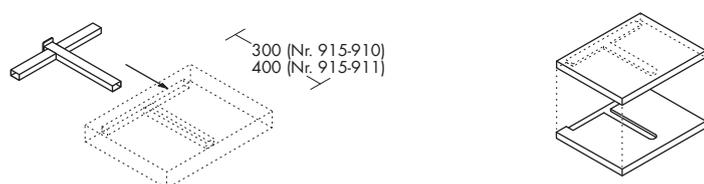
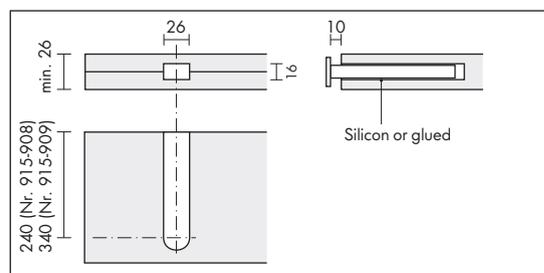
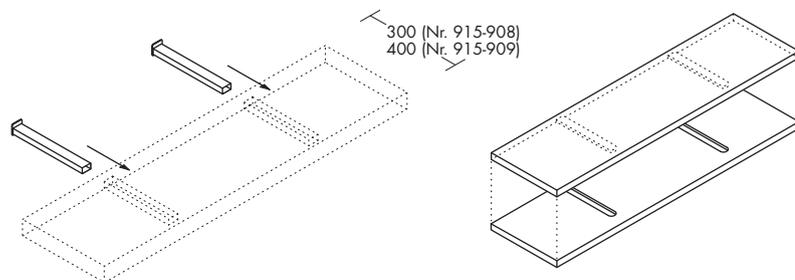


Mono 55



⚠ Fitting in glass panels: Fill the surrounding cavity with silicone. Direct contact between metal and glass must be avoided.

Shelf dimension for bracket



Weight loading

- ❗ The indicated weight loads are always based on the total weights of the merchandise support and goods. Please observe that max. weight loading decreases as the merchandise support increases in length. Please observe that the inclination of the merchandise support changes with an increase in load. Different weights on the merchandise supports produce an uneven overall appearance of the goods display. Please note that the weight limit can reduce considerably when Mono 55 is used in glass and sheet metal. Please also observe the weight loads indicated in our sales documentation.

Max. load

Mono 55 holder set for wooden panel	per holder	40 kg
Mono 55 holder set for glass panel	per holder	15 kg
Mono 55 holder set for wooden panel double sided	per holder	15 kg
Mono 55 Q holder set for wooden panel	per holder	40 kg
Front arm Ø 25 mm		25 kg *
Hanging rail Ø 25 mm, 600 mm T arm		20 kg
Bracket for hanging rail Ø 25 mm	per bracket	20 kg *
Bracket for hanging rail Ø 25 mm and wooden or glass shelf	per bracket	20 kg *
Bracket for wooden or glass shelf	per bracket	20 kg *
Clamping bracket for glass shelf	per bracket	15 kg
Support bracket for wooden or glass shelf	per bracket	20 kg *
Bracket for hanging rail 30 x 15 mm	per bracket	25 kg
Bracket 250 mm for wooden shelf	per bracket	20 kg
Bracket 350 mm for wooden shelf	per bracket	15 kg
Bracket 250 mm for wooden shelf (for 1 holder)		20 kg *
Bracket 350 mm for wooden shelf (for 1 holder)		10 kg
Fixing set		20 kg

* when used in holder set for glass panel (10 mm safety glass) 963-241.01/30 and double-sided holder set 963-307.01/30, the max. weight load is limited to 15 kg

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PUSH

ASSEMBLY AND OPERATING INSTRUCTIONS

Push

Assembly and operating instructions

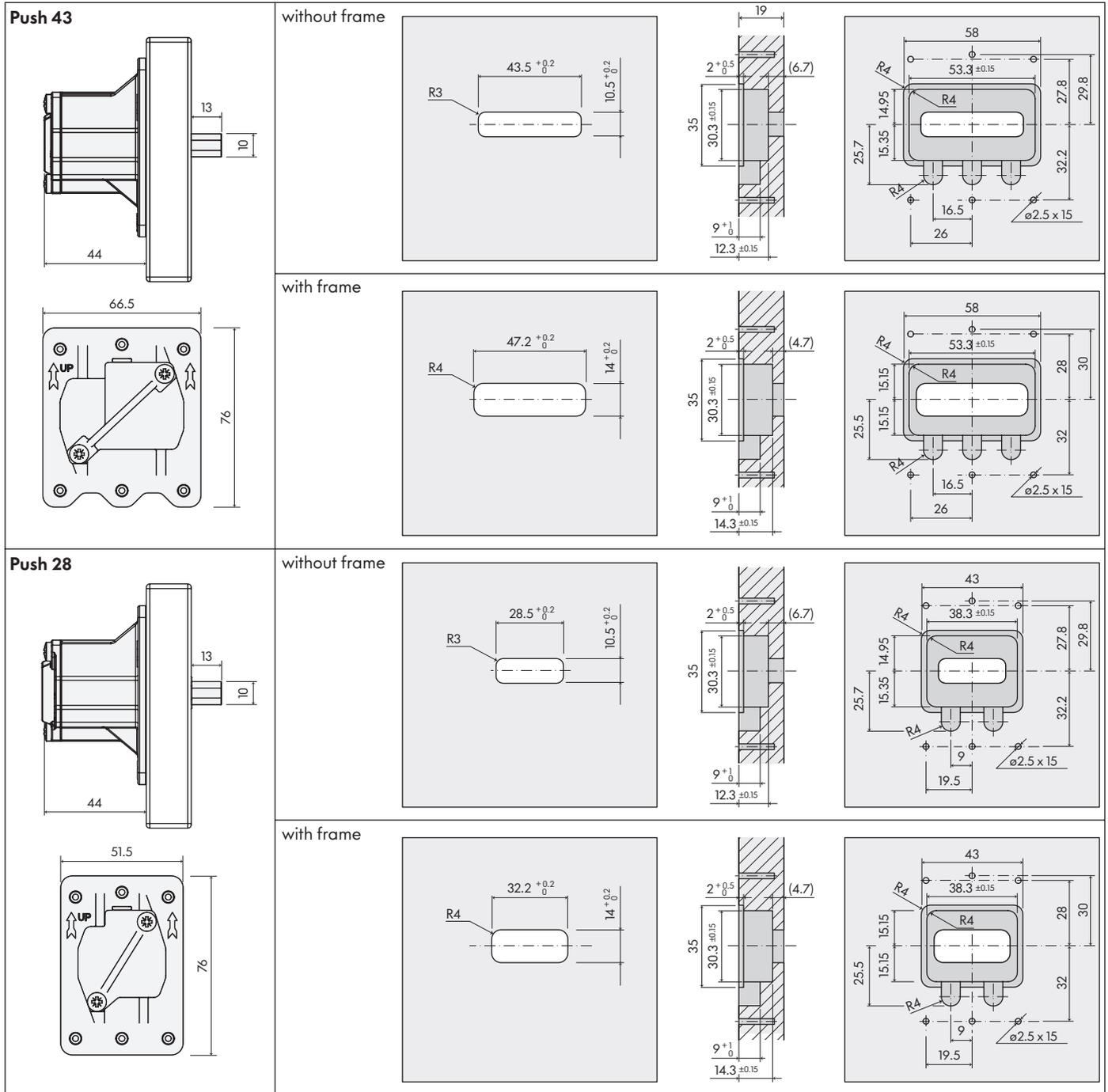
Assembly dimensions / Layout

The choice and arrangement of the holder sets must be adapted to the respective assortment and expected load.

❗ Please observe the indications concerning weight loading and ensure that the substructure of the wall units/furniture and their fixtures can support the expected loads.
With free-standing furniture, ensure that there is sufficient stability even with the intended merchandise supports.

Assembly dimensions Push

Wood: 19 mm

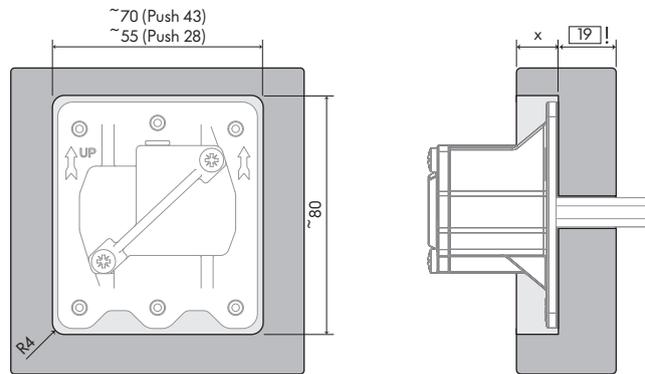


Push

Assembly and operating instructions

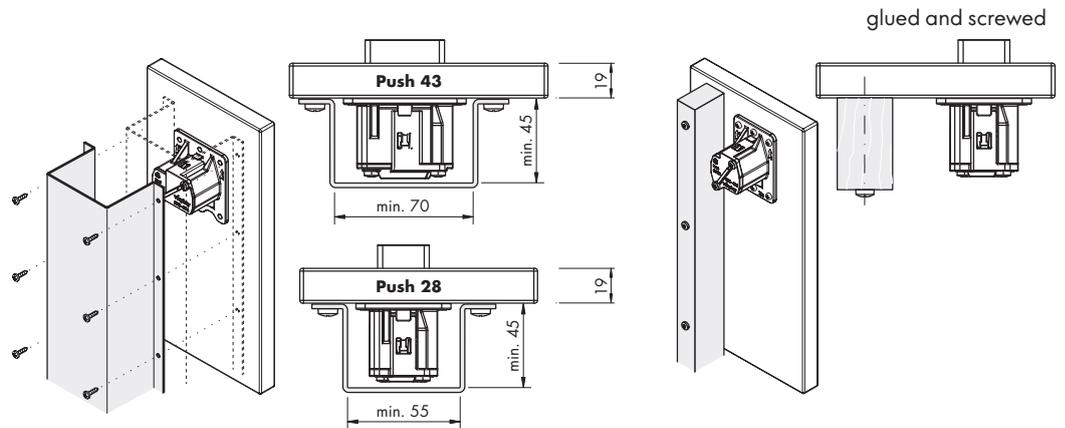
Assembly dimensions Push

Wood: >19 mm



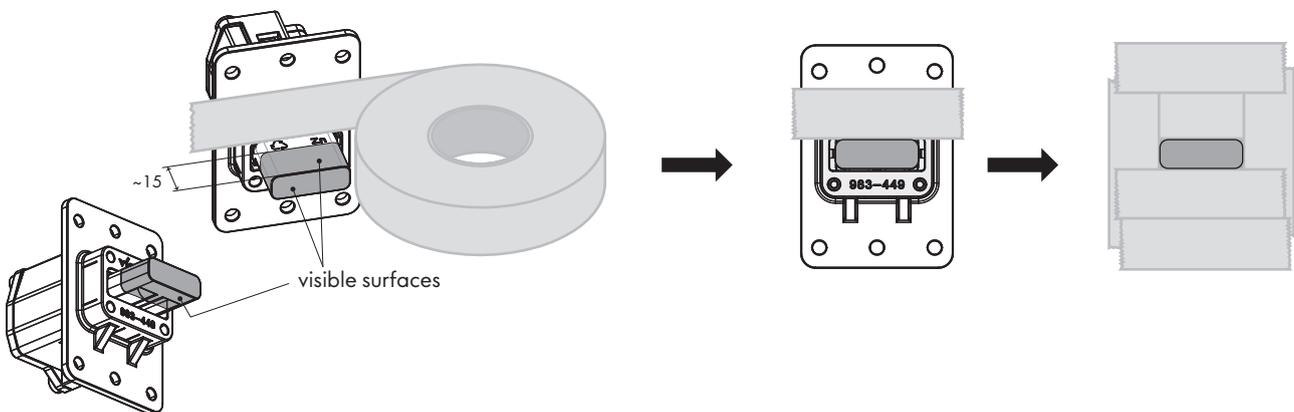
Layout

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



Painting holders

The holders must be covered with adhesive tape before painting.



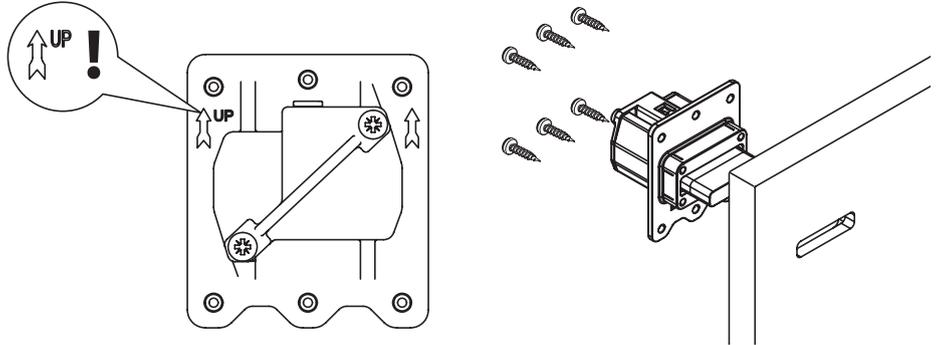
! Please ensure that the surfaces to be painted (= visible surfaces) are pre-treated carefully; no solvent or paint must get into the mechanism! Paint drips can impair functioning.

Push

Assembly and operating instructions

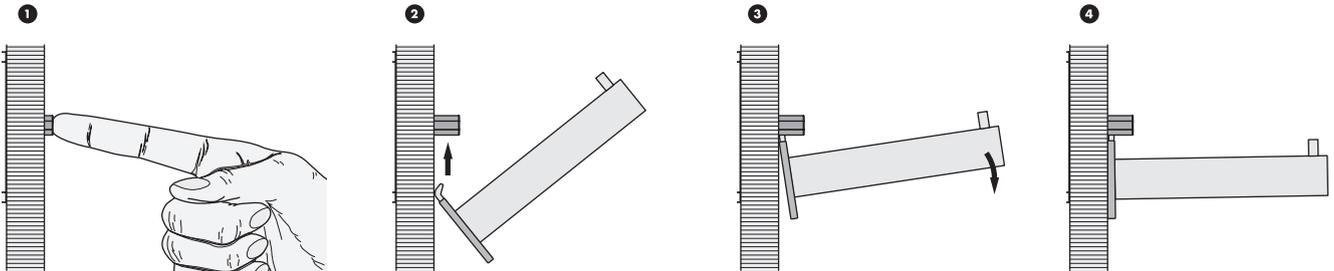
Assembly instructions

Insert holder from the rear and screw into place from the rear.



Instructions of use

With Push, the suspension arm of the merchandise support is inserted into the holder at an angle and then lowered down. Merchandise support slightly inclined.



Weight loading

- ❗ The indicated weight loads are always based on the total weights of the merchandise support and goods. Please observe that max. weight loading decreases as the merchandise support increases in length. Please observe that the inclination of the merchandise support changes with an increase in load. Different weights on the merchandise supports produce an uneven overall appearance of the goods display. Please also observe the weight loads indicated in our sales documentation.

Max. load

Push 43 Holder	per holder	20 kg
Push 28 Holder	per holder	10 kg
Front arm ø 20 mm		20 kg
Front arm ø 12 mm		10 kg
Hanging rail Ø 20 mm, 600 mm, T arm		20 kg
Hanging rail Ø 15 mm, 390 mm, T arm		10 kg
Bracket 25 x 5 mm for hanging rail Ø 20 mm	per holder	20 kg
Bracket Ø 12 mm for hanging rail Ø 15 mm	per holder	10 kg
Bracket 25 x 4 mm for wooden or glass shelf	per holder	20 kg
Clamping bracket for glass shelf 8 mm	per holder	15 kg
Clamping bracket for glass shelf 6 mm	per holder	10 kg
Support bracket for shelf		20 kg
Fixing set		20 kg
Hat bar		3 kg
Shoe shelf		2 kg

vitra.

AREA 13

ASSEMBLY AND OPERATING INSTRUCTIONS

Area 13

Assembly and operating instructions

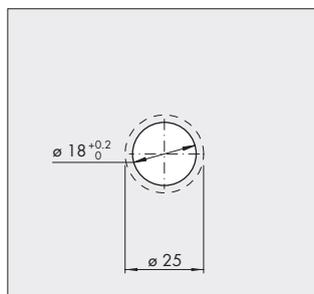
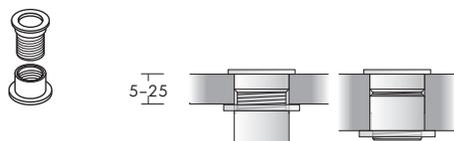
Assembly dimensions / Assembly instructions

The choice and arrangement of the holder sets must be adapted to the respective assortment and expected load.

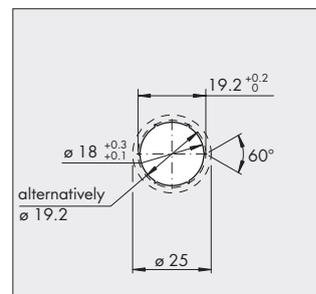
- ❗ Please observe the indications concerning weight loading and ensure that the substructure of the wall units/furniture and their fixtures can support the expected loads.
With free-standing furniture, ensure that there is sufficient stability even with the intended merchandise supports.
When installing in glass, safety glass must be used.

Assembly dimensions for socket set Area 13 for wood

Material thickness 5–25 mm

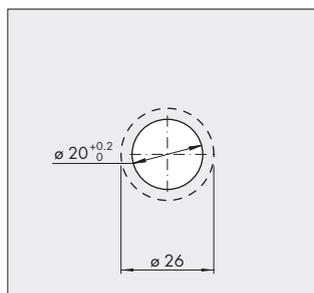
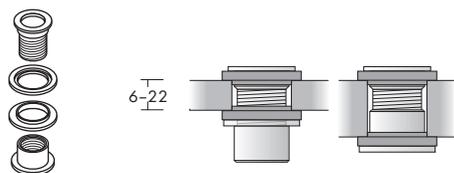


metal



Assembly dimensions for socket set Area 13 for glass

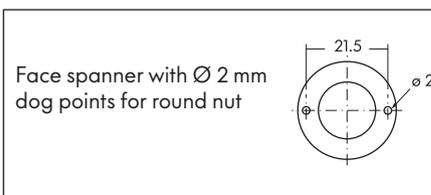
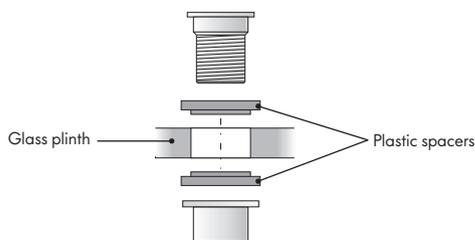
Safety glass, material thickness min. 6–22 mm



Assembly instructions

Area 13 sockets is inserted from above and screwed down from underneath.

As the sockets have positioning catches, a neat alignment of the sockets is necessary during installation, in accordance with the equipment used



Weight loading

- ❗ The indicated weight loads are always based on the total weights of the merchandise support and goods.
Please observe that max. weight loading decreases as the merchandise support increases in length.
Please observe that the inclination of the merchandise support changes with an increase in load. Different weights on the merchandise supports produce an uneven overall appearance of the goods display.
Please note that the weight limit can reduce considerably when Area 13 is used in glass and sheet metal.
Please also observe the weight loads indicated in our sales documentation.

Max. weight load

Shelf support (glass/wooden shelf)

7 kg

vitra.

STRIPES

ASSEMBLY AND OPERATING INSTRUCTIONS

Stripes 13

Assembly and operating instructions

Assembly dimensions / Layout

The choice and arrangement of the profiles must be adapted to the respective assortment and expected load.
Stripes 13 can be fixed on to curved panels (radius > 6 m). Profile cannot be pre-curved.

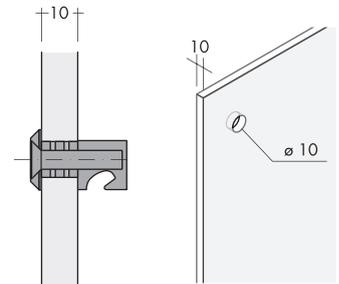
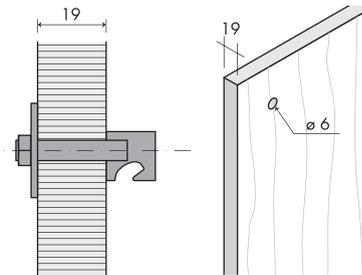
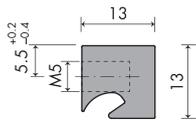
! Please observe the indications concerning weight loading and ensure that the substructure of the wall units/furniture and their fixtures can support the expected loads.
With free-standing furniture, ensure that there is sufficient stability even with the intended merchandise supports.
When installing in glass, safety glass must be used.

Assembly dimensions Stripes 13

Wood: 19 mm
Safety glass: min. 10 mm

Rabbit size for wood

Rabbit size for glass



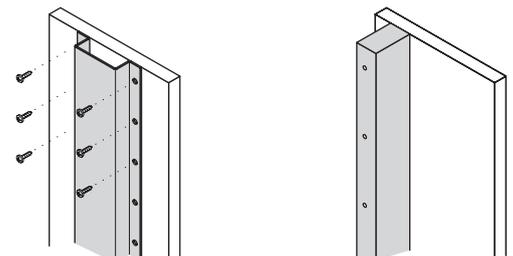
Distance of holes

<p>L = 56 mm</p>	<p>L = 110 mm</p>
<p>L = 625 mm</p>	
<p>L = 1250 mm</p>	
<p>lto = min. 250 max. 3100 mm</p> <div style="border: 1px solid black; padding: 10px; margin: 10px auto; width: fit-content;"> <p style="text-align: center;">round up to a hole number</p> $\text{Dim X} = \frac{lto - \left(\frac{lto}{76.2} - 1 \right) \times 76.2}{2}$ </div>	

Layout

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

glued and screwed

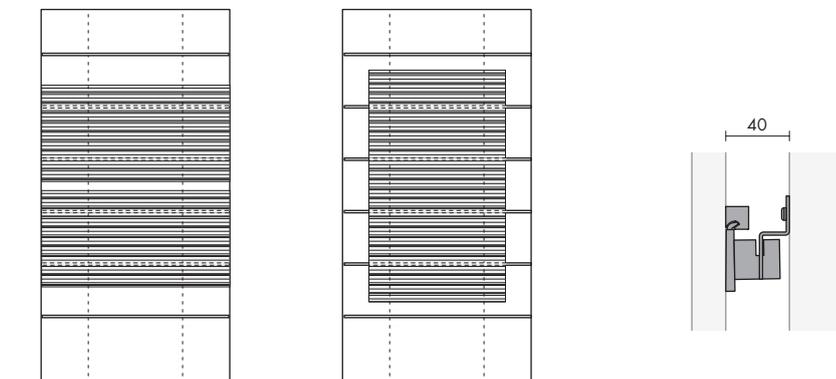
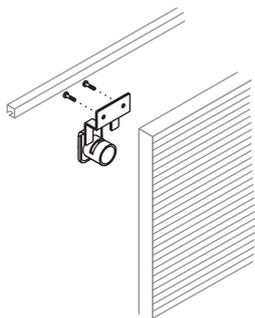


Stripes 13

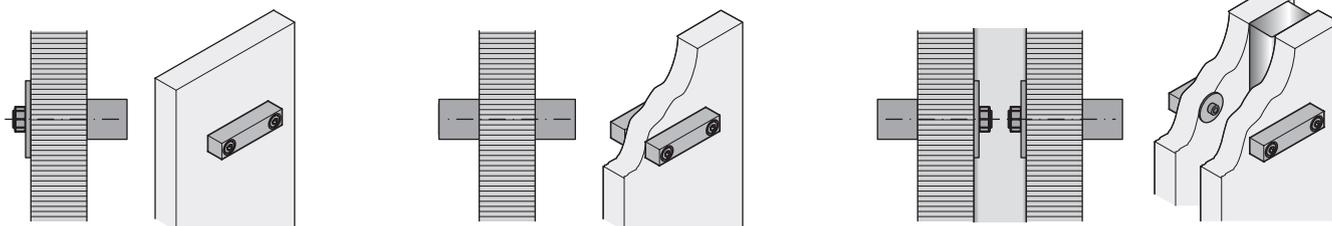
Assembly and operating instructions

Fixing set for Stripes profiles

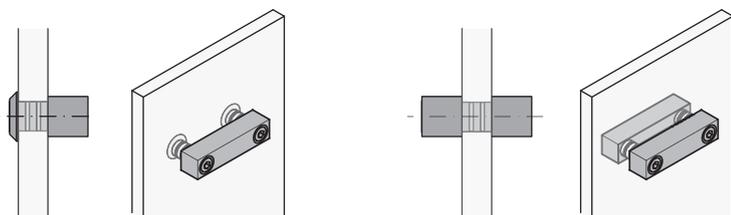
To be screwed to the back of wooden panels.



Examples on wooden panel



Examples on glass panel

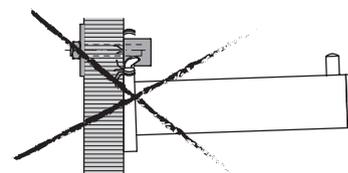
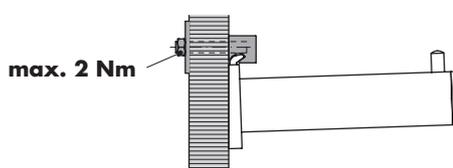


Assembly instructions

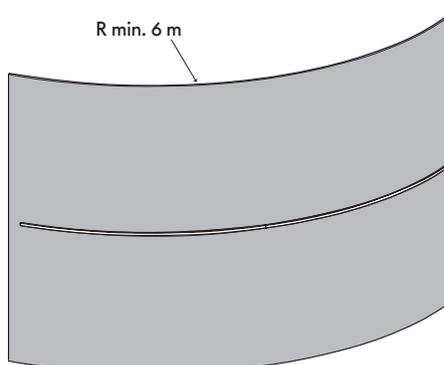
Stripes profiles will be screwed.

Please note that the attachment exerts pressure and friction on soft wall types (e.g. textured wall-paper) and can damage them.

- ⓘ The torque must be observed to ensure the correct functioning of Stripes 13.



Stripes 13 can be attached on curved walls (radius > 6 m). Profile cannot be pre-curved.

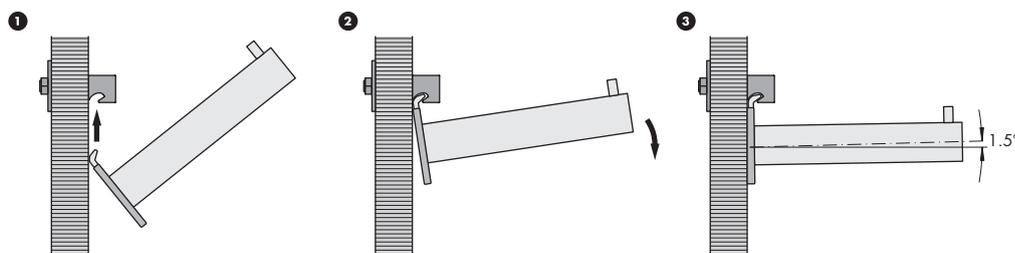


Stripes 13

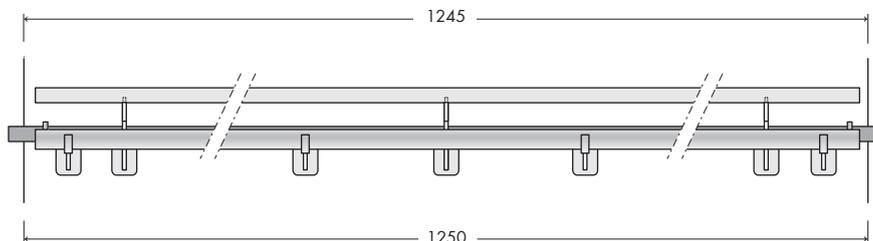
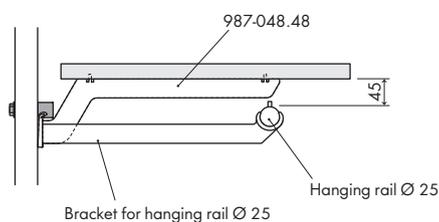
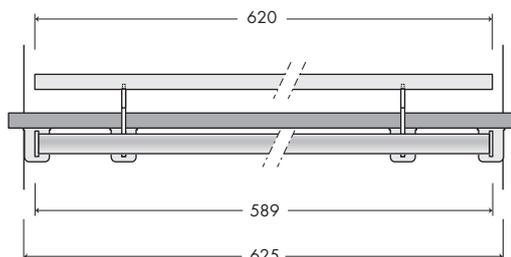
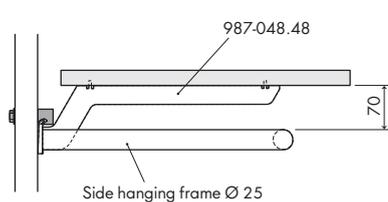
Assembly and operating instructions

Instructions of use

With Stripes, the suspension arm of the merchandise support is inserted into the profile at an angle and then lowered down. Merchandise support slightly inclined (1.5°).



Bracket for wooden or glass shelf 987-048.48 with side hanging frame or with bracket for hanging rail



Weight loading

- ❗ The indicated weight loads are always based on the total weights of the merchandise support and goods. Please observe that max. weight loading decreases as the merchandise support increases in length. Please observe that the inclination of the merchandise support changes with an increase in load. Different weights on the merchandise supports produce an uneven overall appearance of the goods display. Please note that the weight limit can reduce considerably when Stripes 13 is used in glass and sheet metal. Please also observe the weight loads indicated in our sales documentation.

Max. load

Profile	per 625 mm	30 kg
Short profile (56/110 mm)		20 kg
Front arm Ø 25 mm		20 kg
Bracket for hanging rail Ø 25 mm	per bracket	25 kg
Side hanging frame Ø 25 mm		30 kg
Brackets (wooden/glass shelf)	per bracket	20 kg
Front arm Ø 12 mm		10 kg
Bracket for hanging rail Ø 15 mm	per bracket	10 kg
Bracket Ø 12 mm (wooden shelf)	per bracket	10 kg
Clamp bracket (glass shelf)	per bracket	15 kg
Hat arm		3 kg
Hook Ø 7.5 mm		3 kg
Shoe shelf		2 kg
Fixing set		20 kg

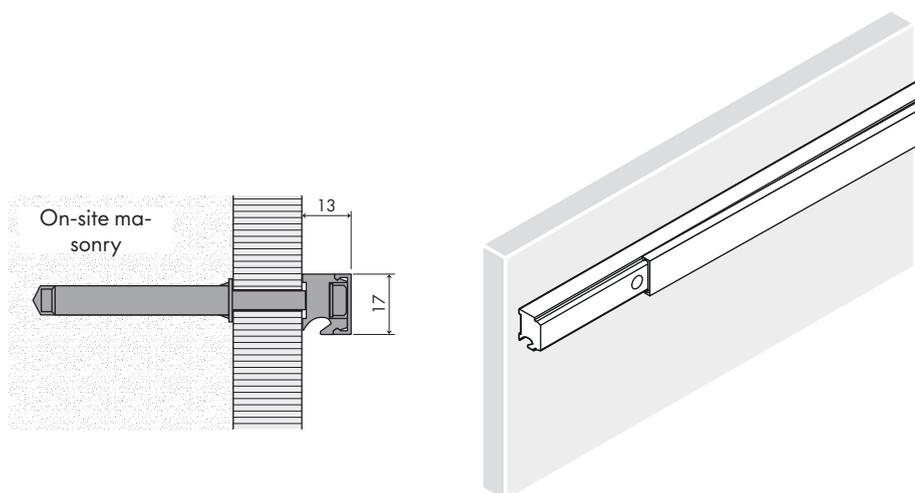
Stripes 16

Assembly and operating instructions

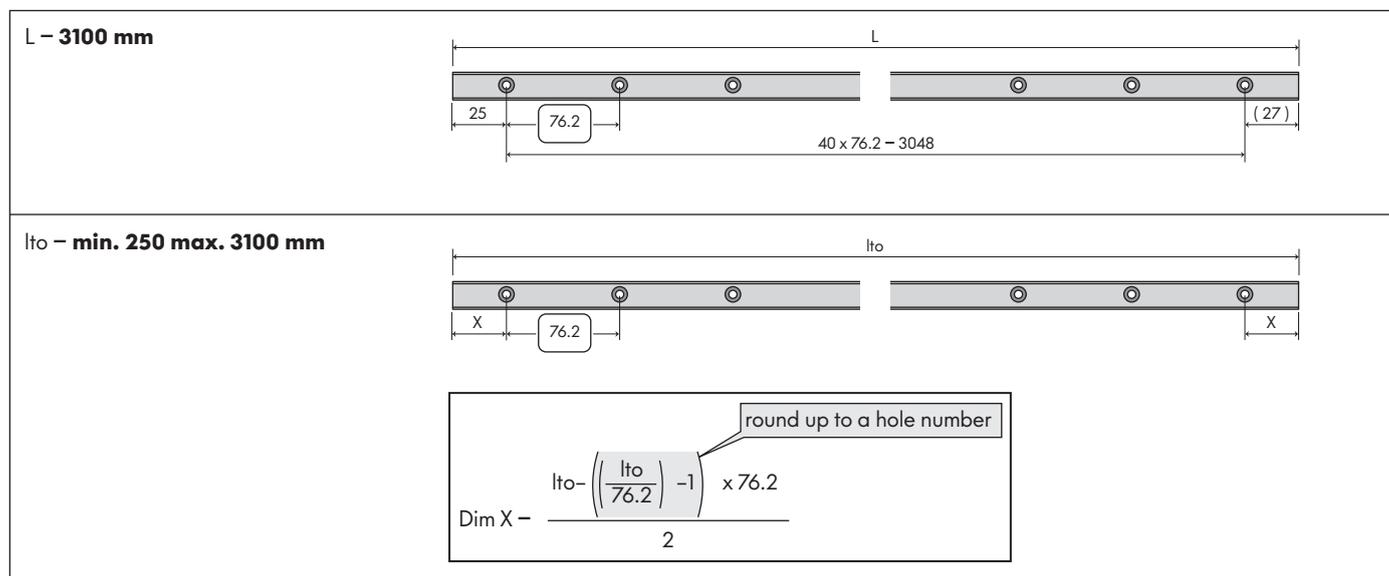
Assembly dimensions / Layout

The choice and arrangement of the profiles must be adapted to the respective assortment and expected load. Stripes 16 can be fixed on to curved panels. The profile must be pre-curved for radii between 1000 and 6000 mm. With radii > 6000 mm it is not necessary to pre-curve profiles.

- ⚠ Please observe the indications concerning weight loading and ensure that the substructure of the wall units/furniture and their fixtures can support the expected loads.
With free-standing furniture, ensure that there is sufficient stability even with the intended merchandise supports.

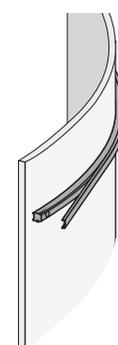
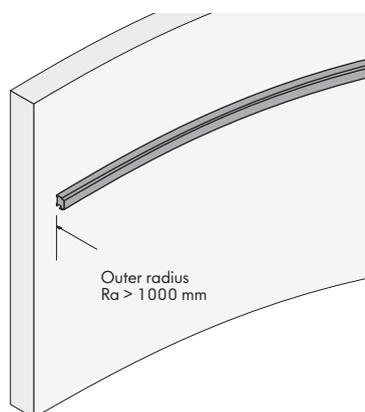
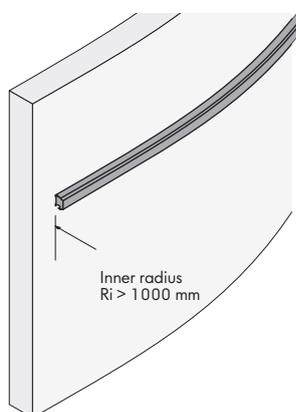


Distance of holes

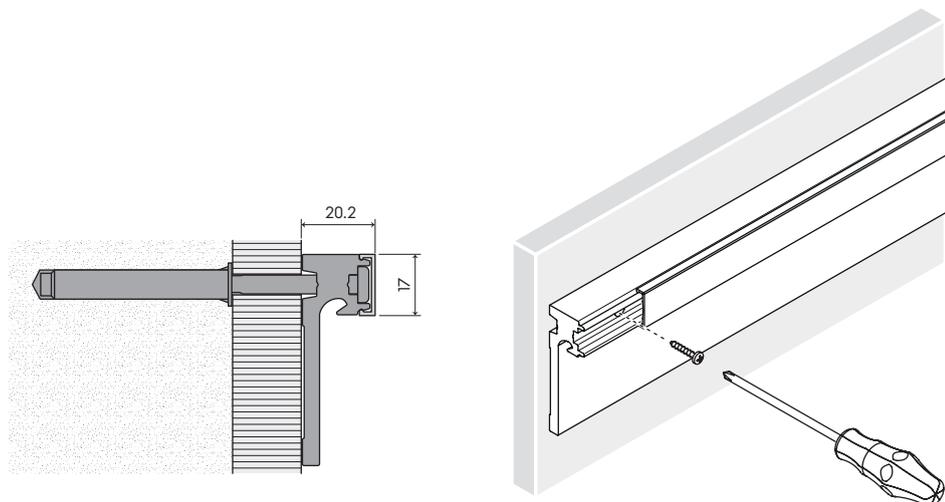


Assembly instructions

With radii greater than 6000 mm, pre-curling is not necessary.

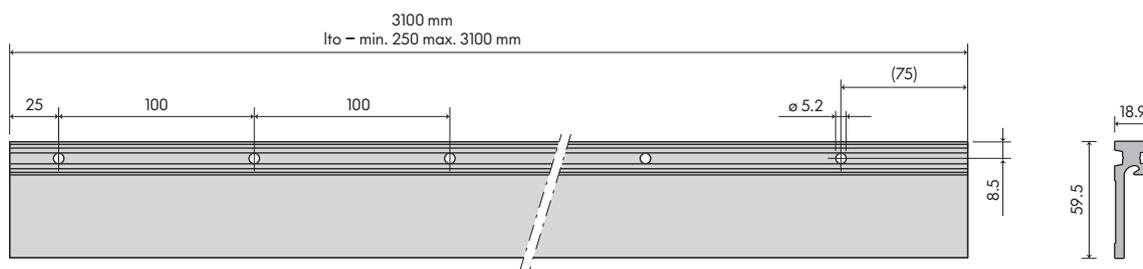


Dimensions Stripes 16 profile for attachment from the front, for walls (gypsum/drywall, concrete, brick, wood)



Dimensions of holes for Stripes 16 profile for attachment from the front

All fixation points are to be used with maximum loads.



Front assembly on different surfaces

The Stripes 16 profiles can be mounted on different wall types.

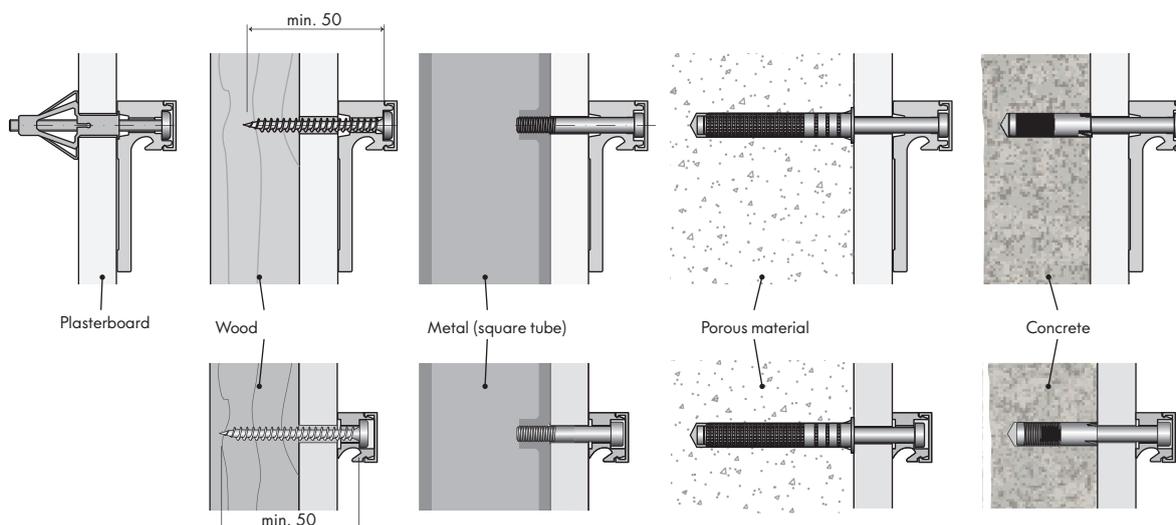
The max. weight load of the Stripes 16 profiles depends on the nature of the wall, on the number of fixation points as well as on the fixation material used.

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

Please observe the instructions supplied by the dowel manufacturer.

For mounting on plaster, the following dowels are recommended (manufacturer Hilti):

- Hollow toggle plug HTB-S M5x60
- Hollow plug HHD-S M5/12x52

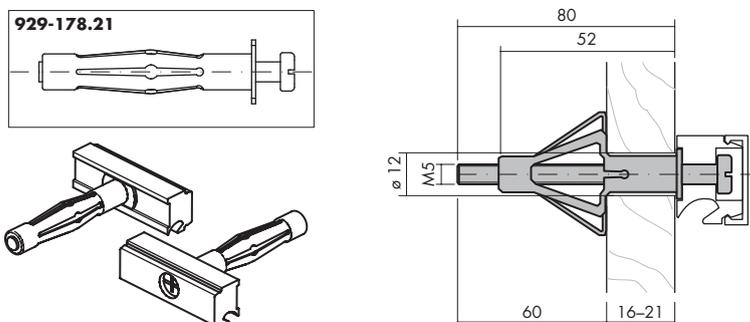


Stripes 16

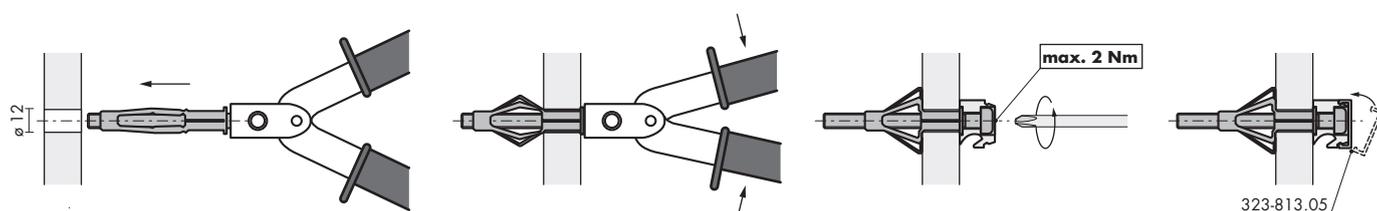
Assembly and operating instructions

Assembly wooden panel

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

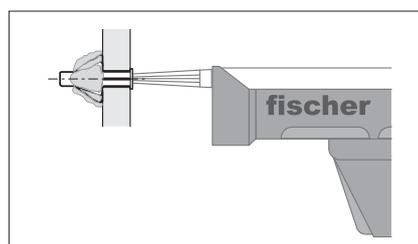


- Drill \varnothing 12 mm hole.
- Insert cavity dowel (fixing set 929-178.21) using pliers (Recommendation: Cavity pliers HM z1 from Fischer®) and expand.
- Unscrew the pre-assembled screw.
- Add Stripes profile and secure with aforementioned screw.
- Assembly has been correctly completed when the screw has been tightened up as far as possible (2 Nm).

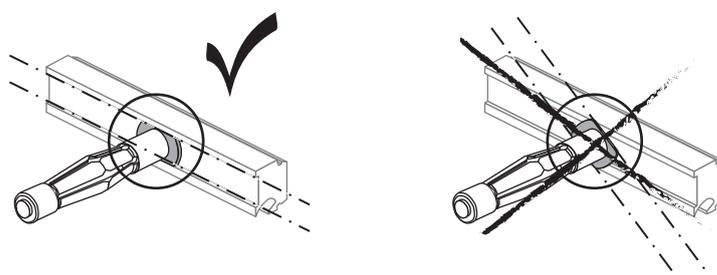


⚠ When using the fixing set (929-178.21), the max. permissible weight per front arm is reduced to 15 kg.

Additional use of Fischer adhesive enables full weight loading once it has hardened.

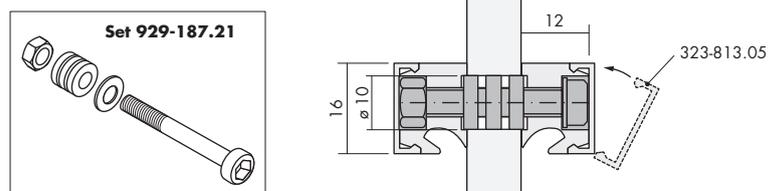


The Stripes Profile must be fitted immediately after the adhesive has been applied. The screw can then be turned in the liquid - and not hardened - adhesive. Please observe correct assembly.



Assembly glass

A special fixing set (929-187.21) is to be used for assembly on glass.



Stripes 16

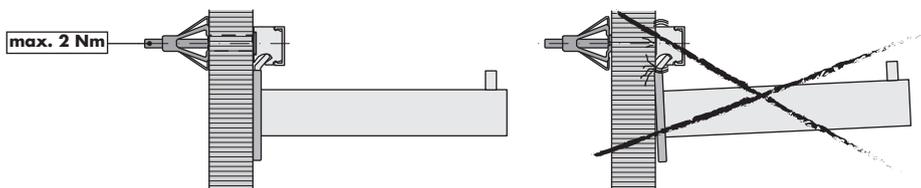
Assembly and operating instructions

Assembly instructions

Stripes 16 profiles will be screwed.

Please note that the attachment exerts pressure and friction on soft wall types (e.g. textured wallpaper) and can damage them.

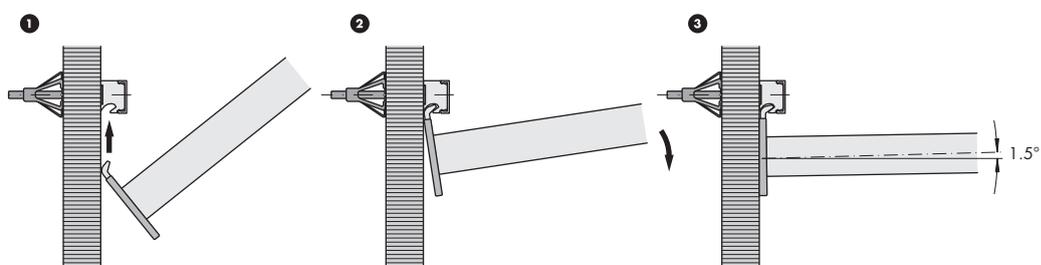
- ❗ The torque must be observed to ensure the correct functioning of Stripes 16.



Instructions of use/ Care

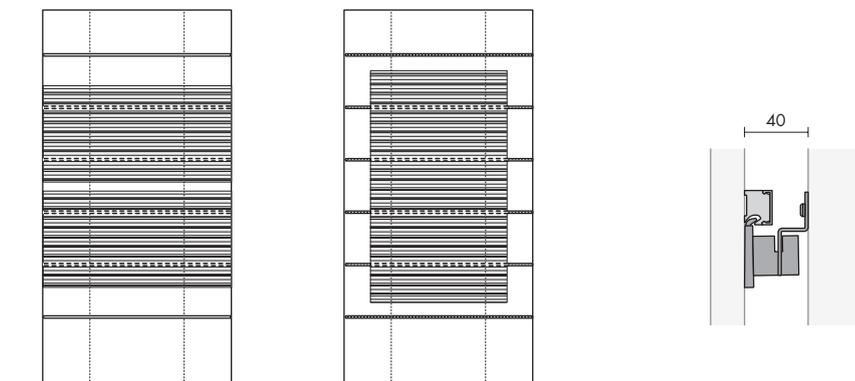
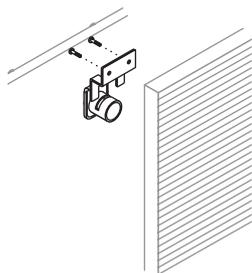
With Stripes, the suspension arm of the merchandise support is inserted into the profile at an angle and then lowered down.

Merchandise support slightly inclined (1.5°).



Fixing set for Stripes profiles

To be screwed to the back of wooden panels.



Weight loading

- ❗ The indicated weight loads are always based on the total weights of the merchandise support and goods.
 Please observe that max. weight loading decreases as the merchandise support increases in length.
 Please observe that the inclination of the merchandise support changes with an increase in load. Different weights on the merchandise supports produce an uneven overall appearance of the goods display.
 Please note that the weight limit can reduce considerably when Stripes 16 is used in glass and sheet metal.
 Please also observe the weight loads indicated in our sales documentation.

Max. load

Profile	per 625 mm	30 kg
Fixing set	per fixing point	15 kg
Front arm Ø 25 mm		20 kg
Bracket for hanging rail Ø 25 mm	per bracket	25 kg
Side hanging frame Ø 25 mm		30 kg
Brackets (wooden/glass shelf)	per bracket	20 kg
Front arm Ø 12 mm		10 kg
Bracket for hanging rail Ø 15 mm	per bracket	10 kg
Bracket Ø 12 mm (wooden shelf)	per bracket	10 kg
Clamp bracket (glass shelf)	per bracket	15 kg
Hat arm		3 kg
Hook Ø 7.5 mm		3 kg
Shoe shelf		2 kg
Fixing set		20 kg

vitra.

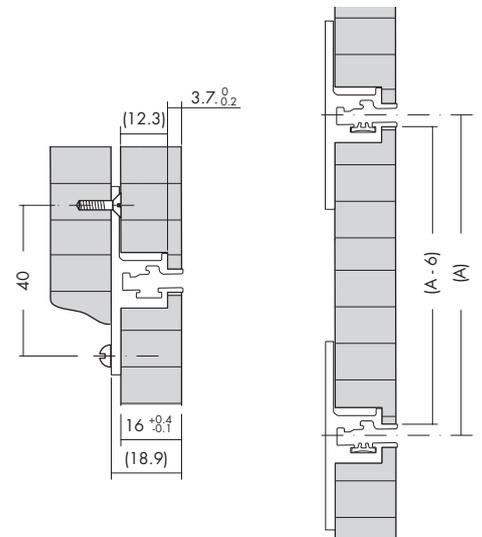
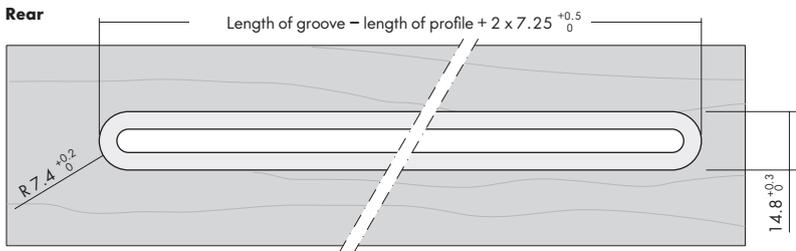
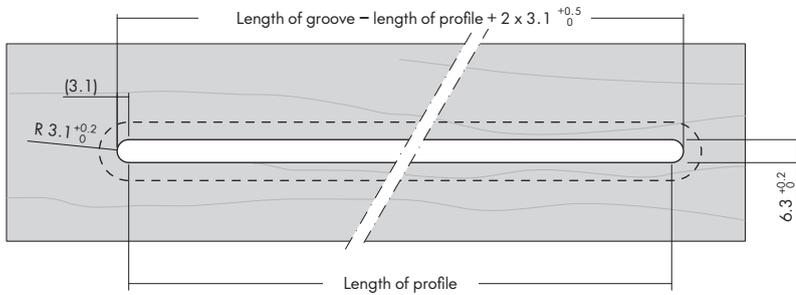
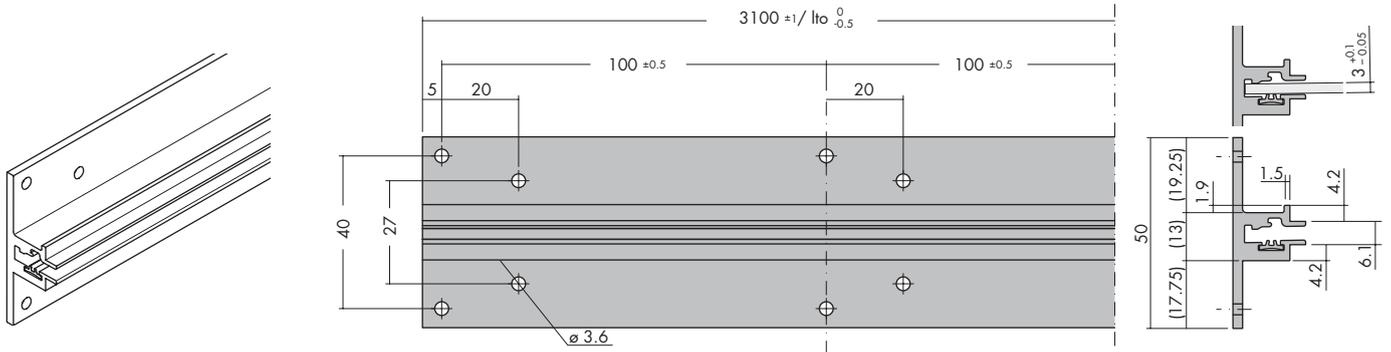
INVISIBLE 3

ASSEMBLY AND OPERATING INSTRUCTIONS

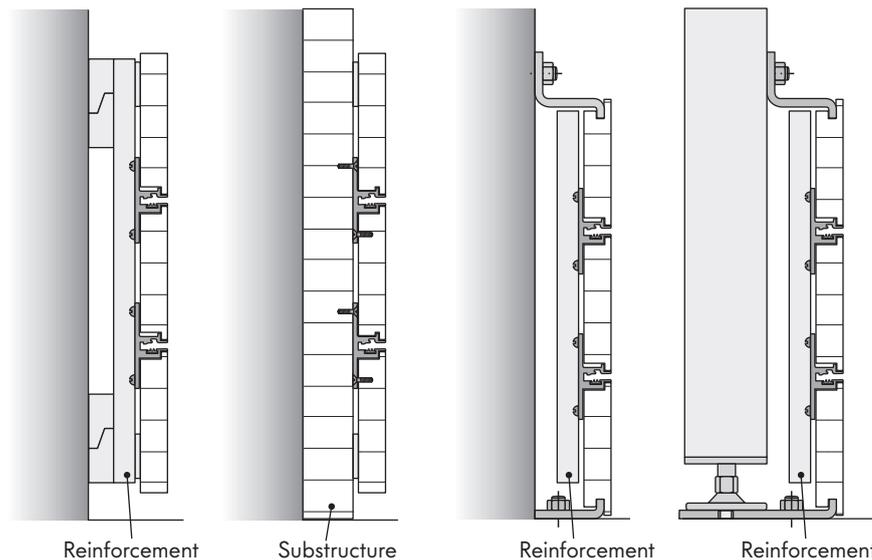
Invisible 3

Assembly and operating instructions

Assembly dimensions / Layout - Invisible 3 profile for 16 mm wooden panel



Examples of fixation



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

glued and screwed

Invisible 3

Assembly and operating instructions

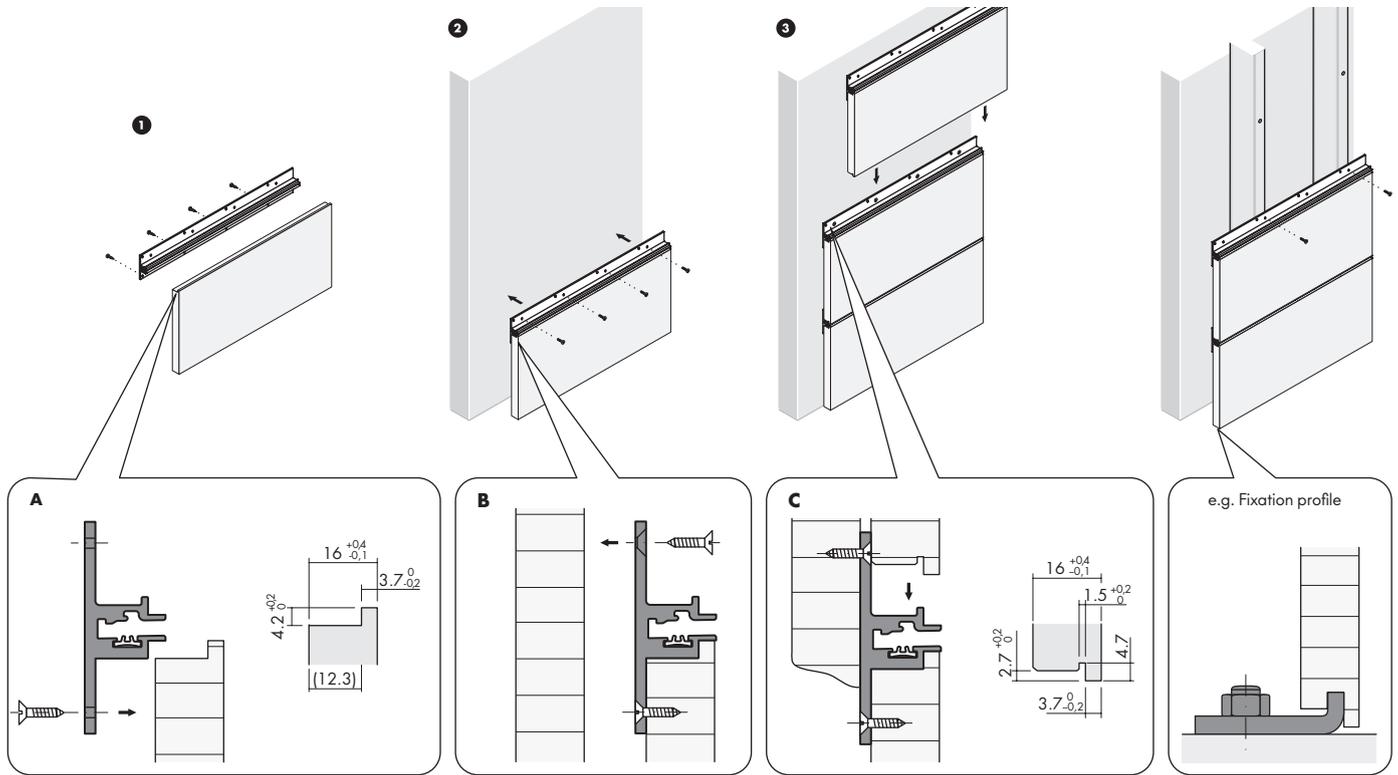
Assembly instructions

The following steps must be carried out when assembling the Invisible 3 profile for 16 mm wooden panel:

1. Screw first profile to the lowest panel from the rear using 3.5 x 15 mm wood screws - see »A« for edge contour.
2. Screw pre-mounted panel to substructure from the front. The indicated bore holes must be countersunk in the profile. The profile is screwed to the substructure using countersunk screws - see »B«.
3. All further profiles are to be pre-assembled according to steps 1 and 2, fitted to the lower profile and screwed together. See »C« for bottom panel groove.

Assembled directly onto the wall

Assembled onto substructure

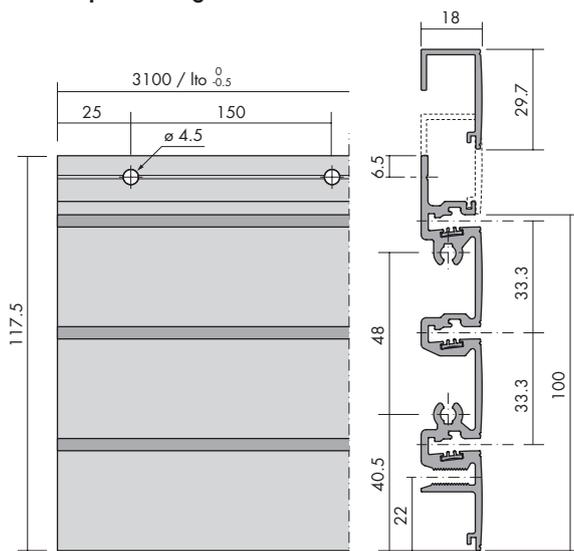


Assembly dimensions / Layout - Invisible 3 profile single sided and double sided

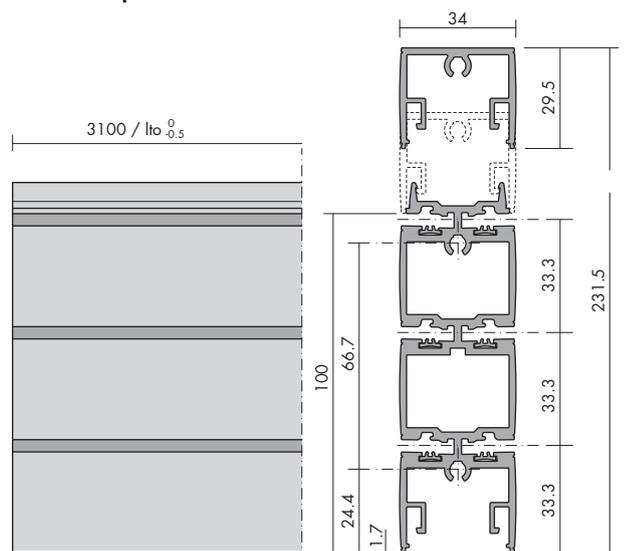
Invisible 3 profiles are available in two different versions:

- Single sided (18 mm) assembled on wooden panels
- Double sided (34 mm) assembled between profile frames (min. 35 mm)

Invisible 3 profile single sided



Invisible 3 profile double-sided



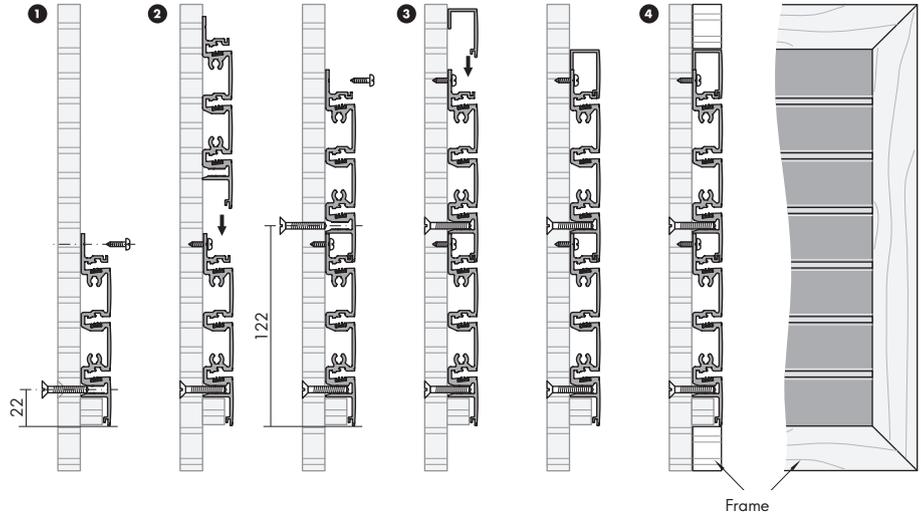
Invisible 3

Assembly and operating instructions

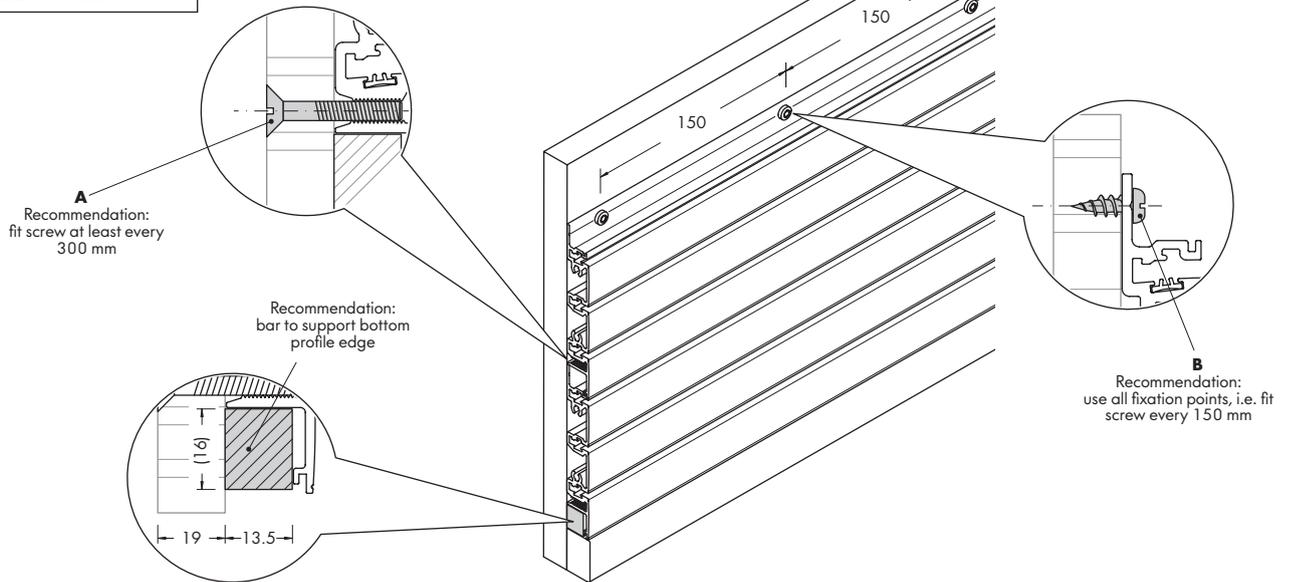
Assembly instructions Invisible 3 profile panels one-sided

The following steps must be carried out when assembling a one-sided profile:

1. Screw the lowest profile to the wooden panel (min. 16 mm) from the front using a 4 x 15 mm screw and from the rear using a M5 x 20 mm screw.
2. Insert a profile into the top of the bottom profile - making sure that the profile is correctly locked into place - and screw to the wooden panel with 4 x 15 mm screw.
3. Insert Invisible 3 end profile - making sure that the profile is securely locked in place.
4. Screw frame to support panel.



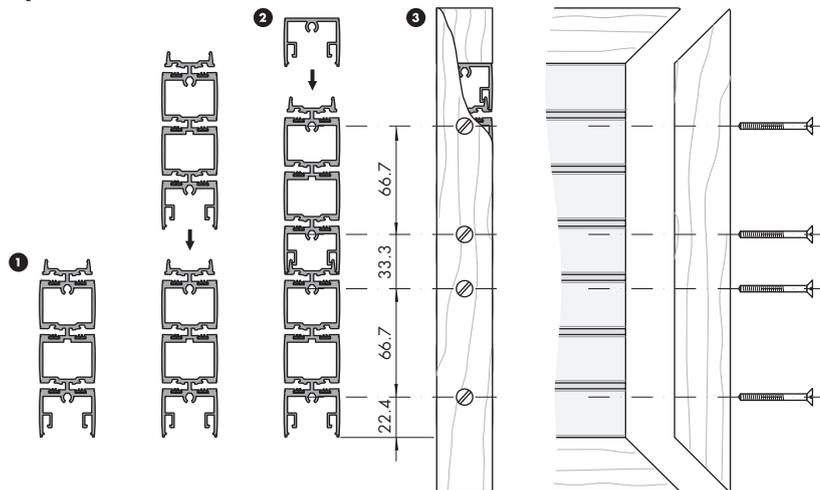
- A** Countersunk screw M5 x 30 mm
- B** Pan-head screw 4 x 5 mm



Assembly instructions Invisible 3 profile panels double-sided

The following steps must be carried out when assembling a two-sided profile:

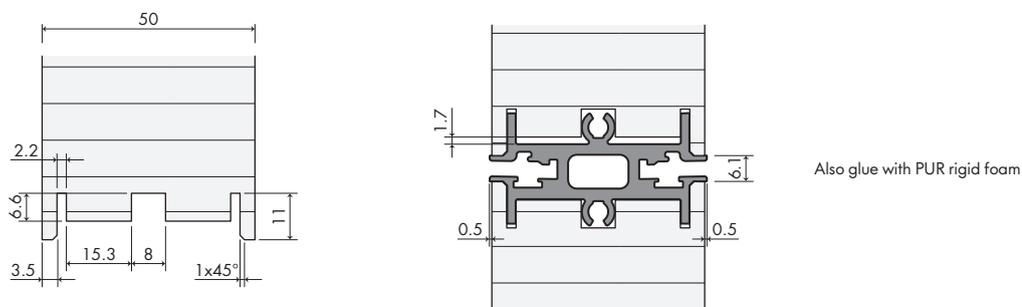
1. Connect double-sided Invisible 3 profile panels to one another - making sure that each profile is securely locked in place.
2. Fit the end profile at the top - making sure that it is securely locked in place.
3. Popular frame solutions (e.g. wood) are to be screwed to the Invisible 3 profiles with M5 screws from the side.



Invisible 3

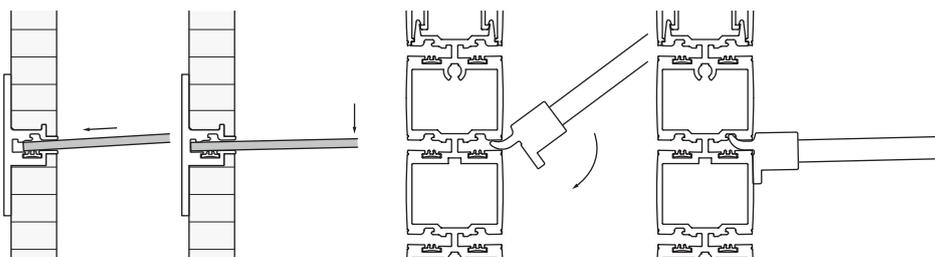
Assembly and operating instructions

Assembly dimensions - Invisible 3 profile double sided for gondolas



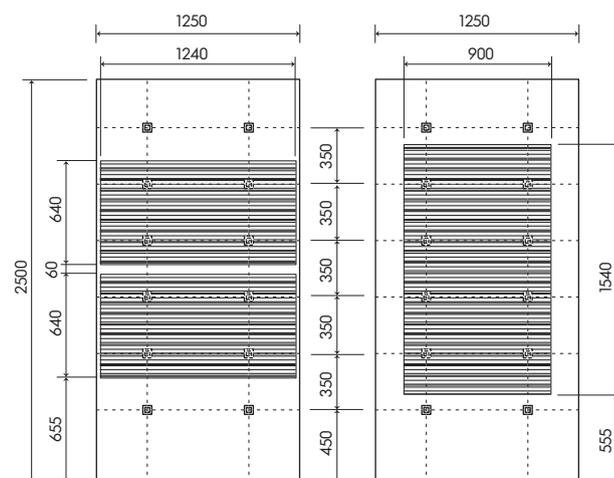
Instructions of use

The Invisible accessories/shelves are inserted in to the holders or profile at a slight angle until the limit stop is reached. Then lower the accessory/shelf. Check that the accessory is correctly clicked into the profile.



Invisible 3 panel (one-sided)

Panel with aluminium frame, to be attached with fixing set (4 fixing sets per panel are required).



Weight loading

- ❗ The indicated weight loads are always based on the total weights of the merchandise support and goods. Please observe that max. weight loading decreases as the merchandise support increases in length. Please observe that the inclination of the merchandise support changes with an increase in load. Different weights on the merchandise supports produce an uneven overall appearance of the goods display. The max. weight loading of Invisible 3 depends on the nature of the wall, on the number of fixation points as well as on the fixation material used. All fixation points are to be used with a maximum weight load. Please also observe the weight loads indicated in our sales documentation.

Max. load

Profile	per 625 mm	12 kg
Profile panels one-sided	per 625 mm split over all grooves	12 kg
Profile panels double-sided	per 625 mm split over all grooves	12 kg
Front arms Ø 8 mm		4 kg
Side hanging frame Ø 15 mm		8 kg
Hooks Ø 6 mm		1 kg
Hooks Ø 4 mm		1 kg
Looped hooks Ø 4 mm		3 kg
Glasses holder		1 kg
Clamp bracket for glass shelf	per bracket	4 kg

Invisible 3

Assembly and operating instructions

vitra.

INVISIBLE 6

ASSEMBLY AND OPERATING INSTRUCTIONS

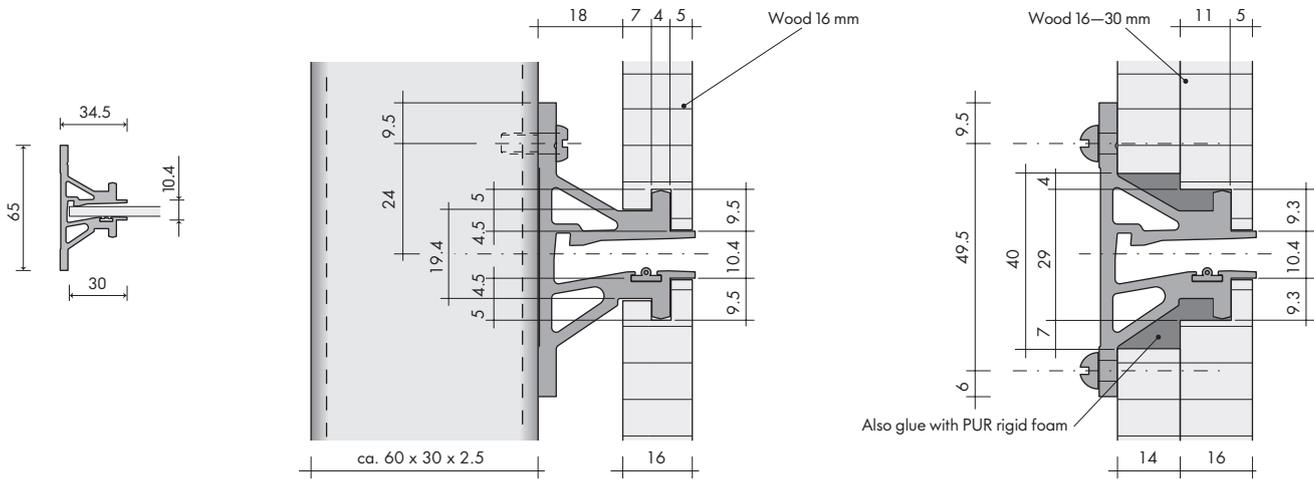
Invisible 6

Assembly and operating instructions

Assembly dimensions / Layout

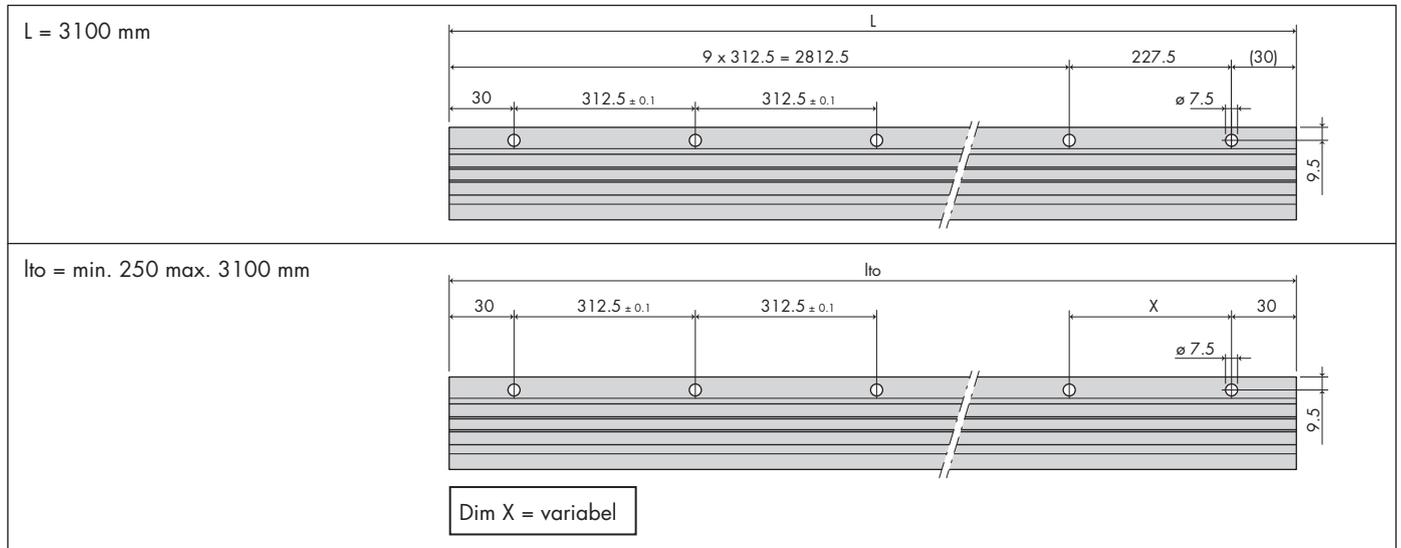
! The fastening material and the wall must be capable of supporting a min. tensile force of 180 kg per fastening point.
 Please observe the indications concerning weight loading and ensure that the substructure of the wall units/furniture and their fixtures can support the expected loads.
 With free-standing furniture, ensure that there is sufficient stability even with the intended merchandise supports.

Assembly dimensions Invisible 6 profile

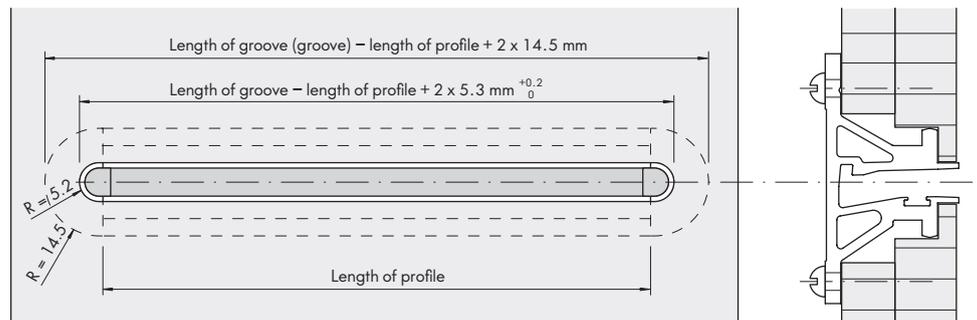


Dimensions of holes

All fixation points are to be used with maximum loads.



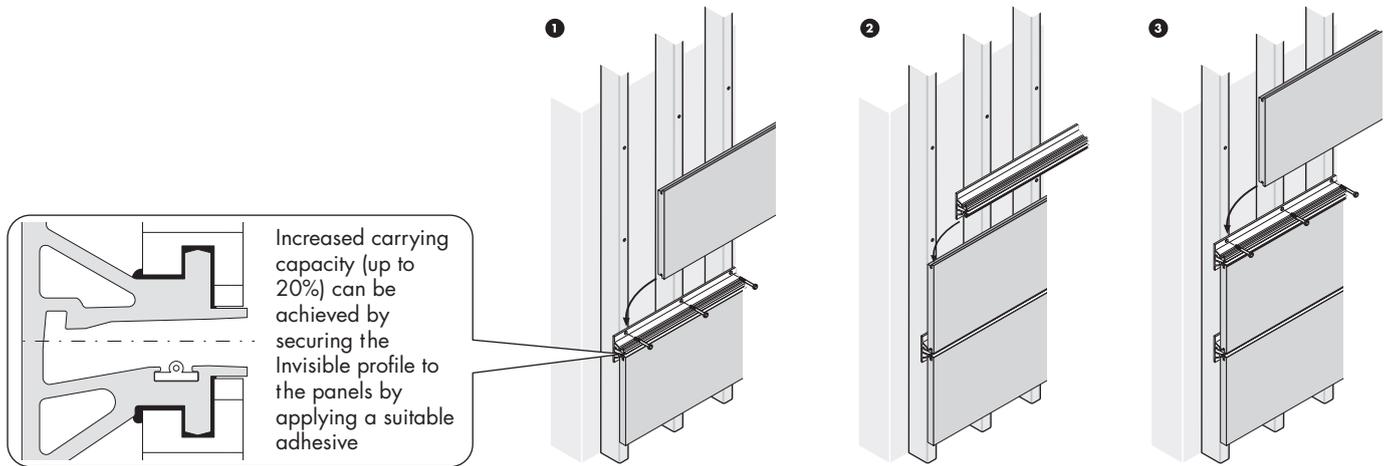
Examples of fixation



Invisible 6

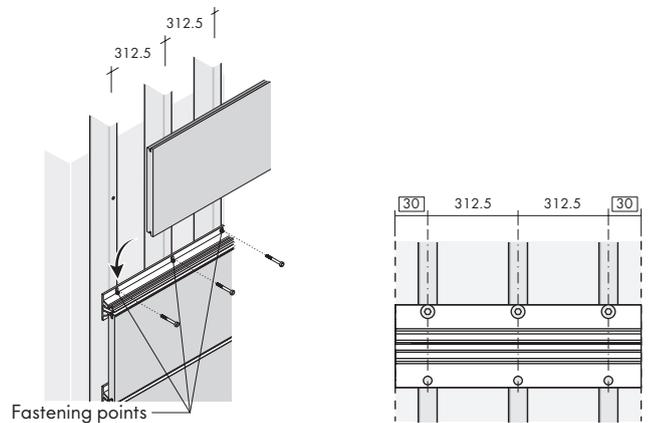
Assembly and operating instructions

Assembly profile

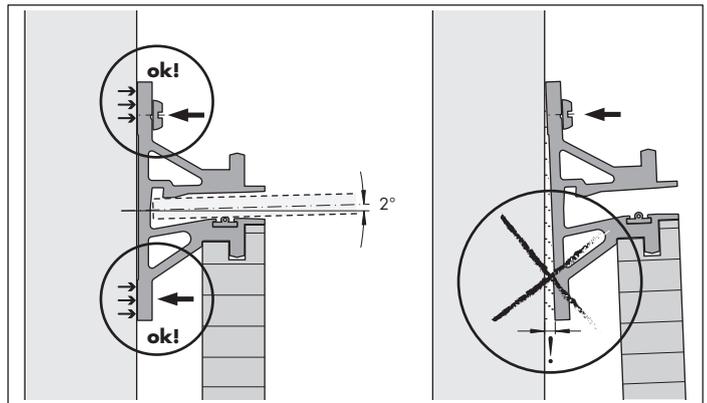


Maximum loads

Optimal distance between the uprights: 312.5 mm

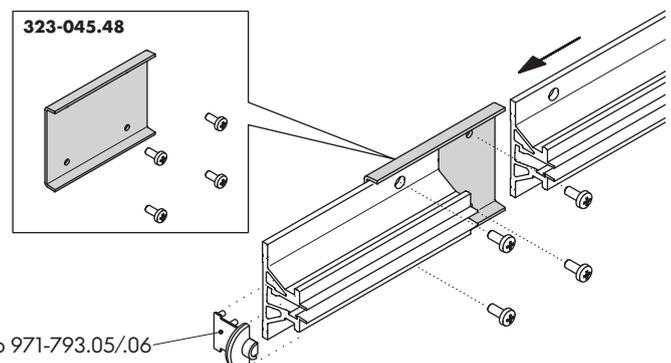


❗ The system's functionality can only be guaranteed if the profile lies completely flat against the aligned mounting surface! → Use pan-head screws!
Merchandise support slightly inclined upward (2°).



Assembly profile, connector set

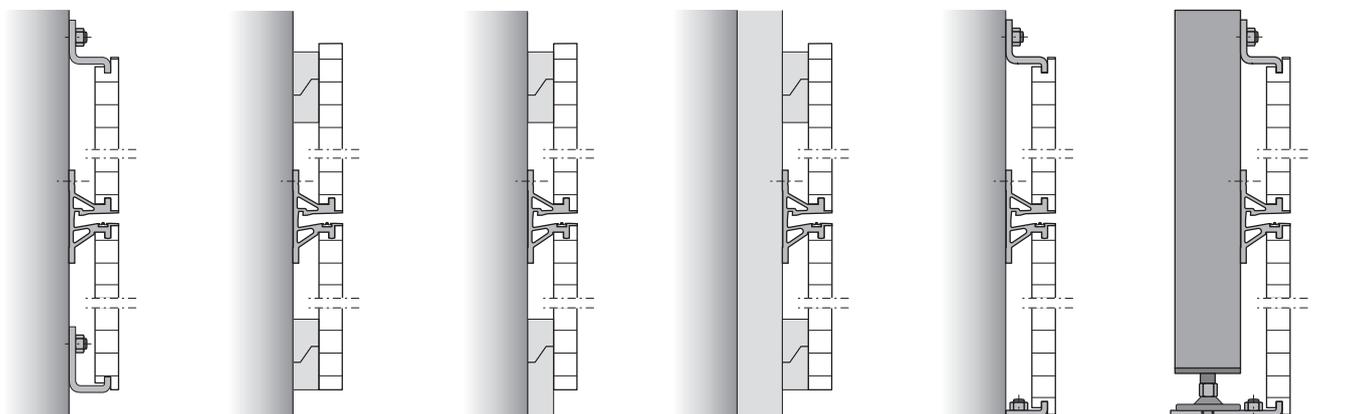
❗ Cannot be used with Invisible 6 C, Invisible 6 for attachment from the front and Invisible 6 P/L.



Invisible 6

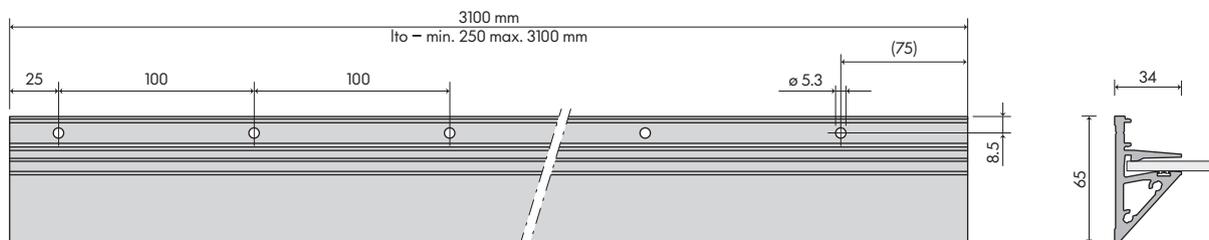
Assembly and operating instructions

Examples of fixation Invisible 6 profile



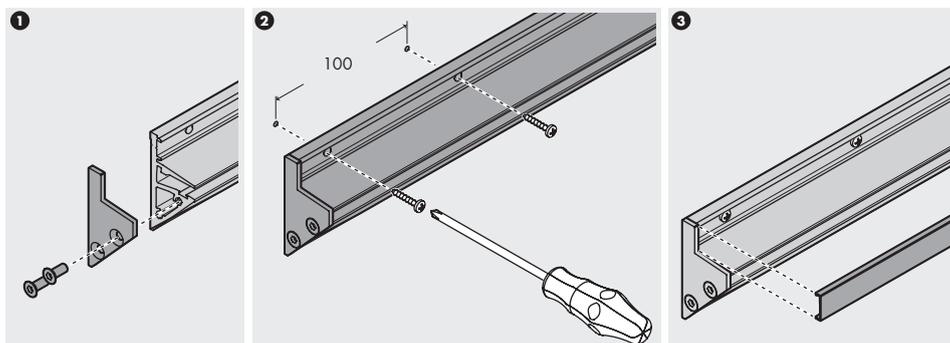
Invisible 6 profile for attachment from the front: dimensions of holes

All fixation points are to be used with maximum loads.



Assembly Invisible 6 profile for attachment from the front

1. Screw the end caps to the profile with the screws provided.
2. Drill holes into the wall at 100 mm intervals (note: to select the right fixtures, see below "Front assembly on different surfaces").
Screw the profile to the wall.
3. Fit the profile cover.



Front assembly on different surfaces

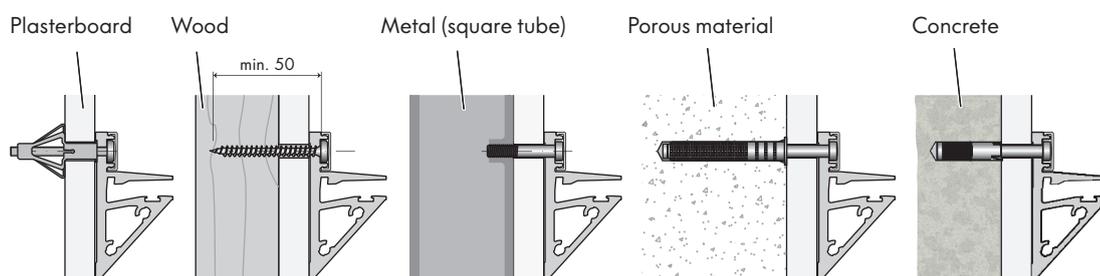
The Invisible 6 profile for attachment from the front can be mounted on different wall types.

The max. weight load of the Invisible 6 profile depends on the nature of the wall, on the number of fixation points as well as on the fixation material used. With wooden substructures, a screw length of min. 50 mm must be observed.

Please observe the instructions supplied by the dowel manufacturer.

For mounting on plaster, the following dowels are recommended (manufacturer Hilti):

- Hollow toggle plug HTB-S M5x60
- Hollow plug HHD-S M5/12x52

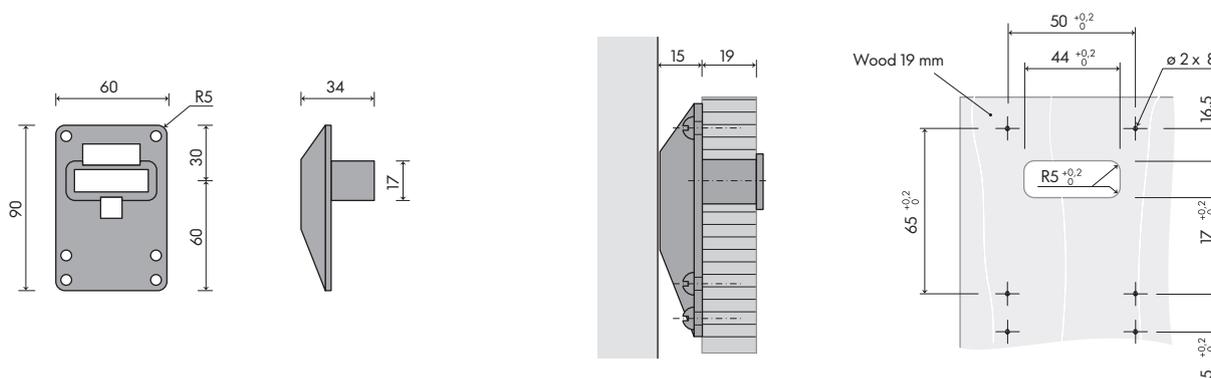


Invisible 6

Assembly and operating instructions

Assembly dimensions Invisible 6 holder

The arrangement of the holders must be adapted to the respective assortment and expected load.

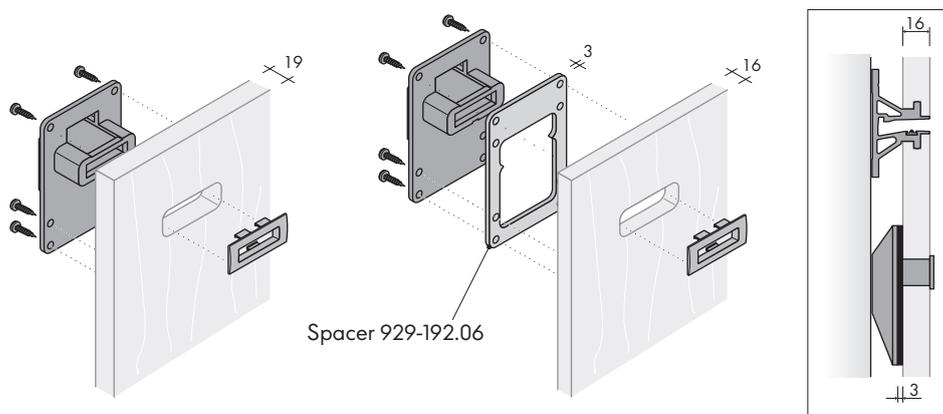


Assembly Invisible 6 holder

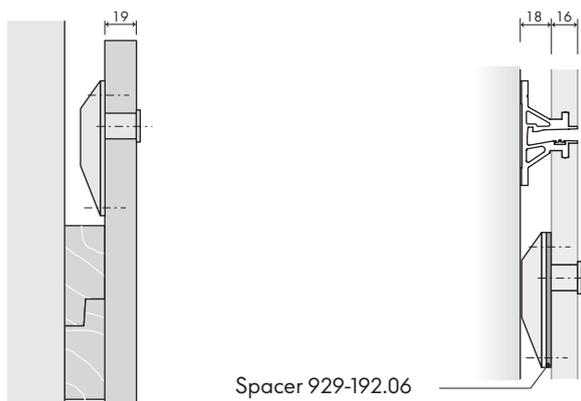
The Invisible holder is screwed on from the back with 6 screws.

Ensure that the rabbet size and a material thickness of 19 mm are respected as otherwise the cover cap set cannot be correctly fitted

! Spacers are only needed when holders are fixed in combination with the profile into a 16 mm wooden panel. Reduced load-carrying capacity with 16 mm clamping plate!



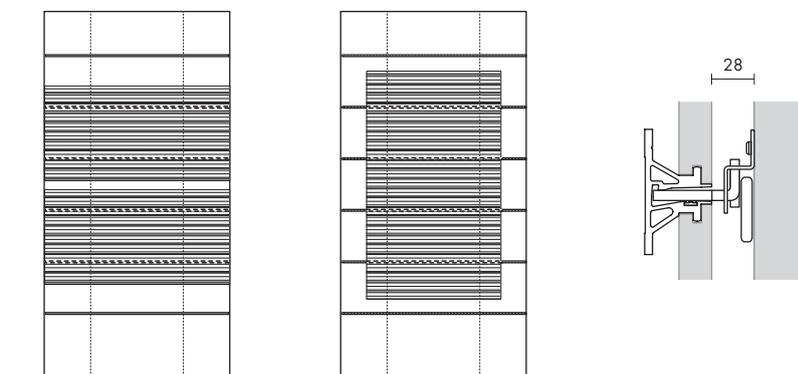
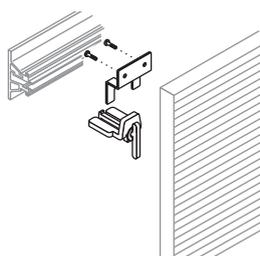
Examples of fixation Invisible 6 holder



Fixing set for Invisible 6 profiles

To be screwed to the back of wooden panels.

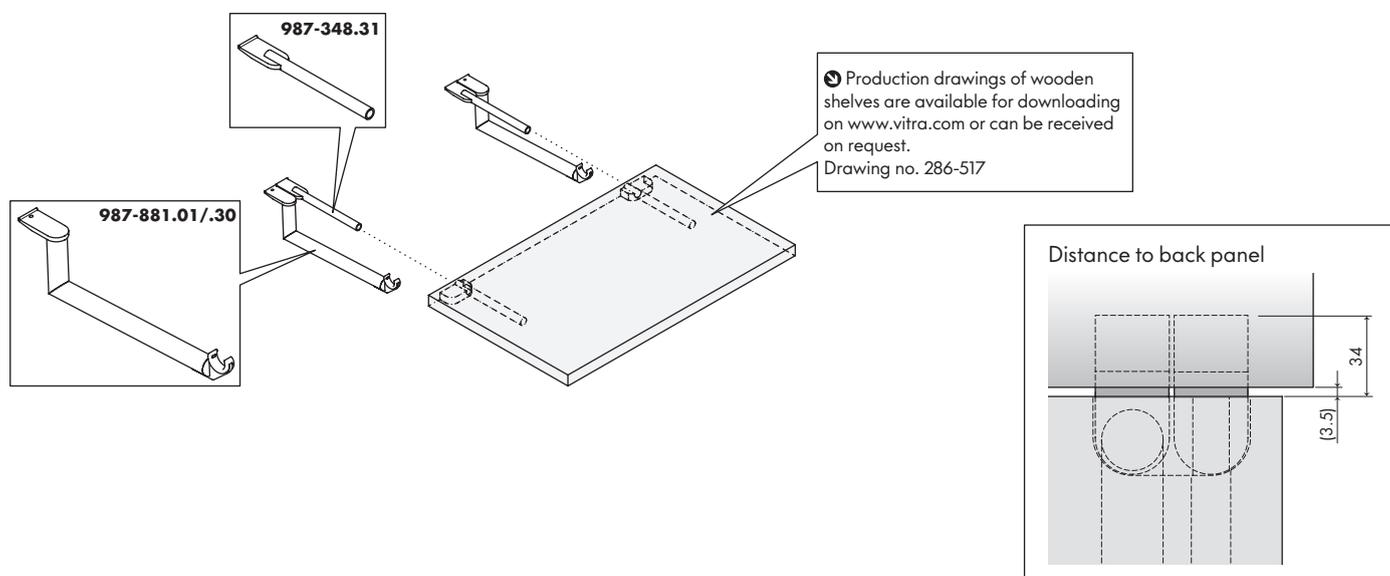
! Cannot be used in Invisible 6 holder set.



Invisible 6

Assembly and operating instructions

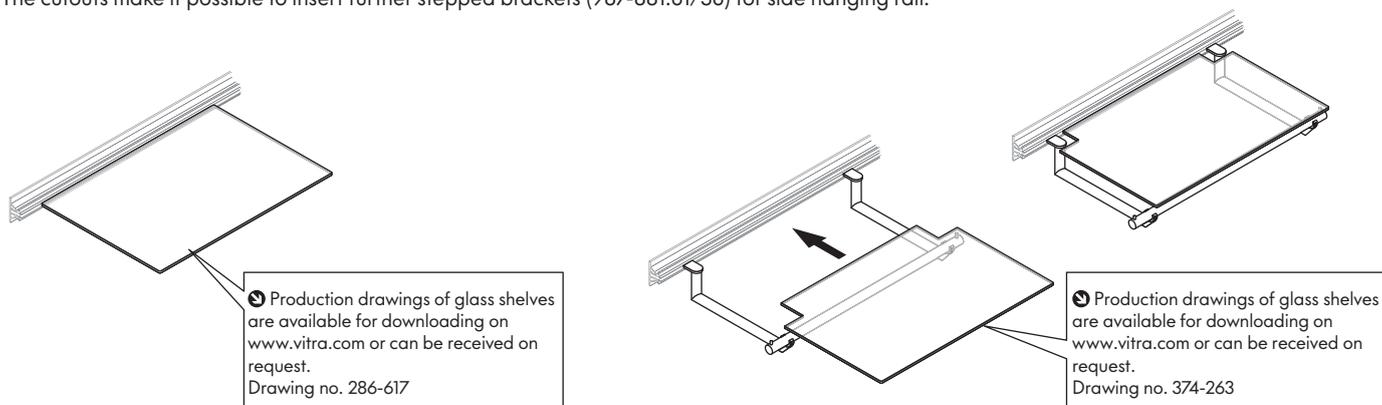
Wooden shelf dimension for bracket concealed 987-348.31 and bracket for side hanging rail 987-881.01/30



Glass shelves (safety glass) 6 mm with and without cutouts

to be inserted into the profile.

The cutouts make it possible to insert further stepped brackets (987-881.01/30) for side hanging rail.

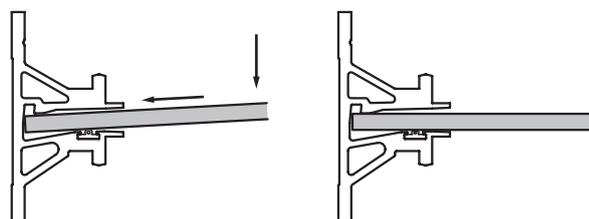


Instructions of use

The Invisible accessories/shelves are inserted in to the holders or profile at a slight angle until the limit stop is reached.

Then lower the accessory/shelf.

Check that the accessory is correctly clicked into the profile.



Invisible 6

Assembly and operating instructions

Weight loading

- i** The indicated weight loads are always based on the total weights of the merchandise support and goods.
 Please observe that max. weight loading decreases as the merchandise support increases in length.
 Please observe that the inclination of the merchandise support changes with an increase in load. Different weights on the merchandise supports produce an uneven overall appearance of the goods display.
 Please note that the weight limit can reduce considerably when Invisible 6 is used in glass and sheet metal.
 The max. weight loading of Invisible 6 depends on the nature of the wall, on the number of fixation points as well as on the fixation material used. All fixation points are to be used with a maximum weight load.
 Please also observe the weight loads indicated in our sales documentation.

Max. load

Profile	per 625 mm	40 kg
Holder set	per holder	20 kg
Front arm Ø 25 mm		25 kg
Front arm 30 x 15 mm		25 kg
Front arm Ø 12 mm		10 kg
Front arm 4 mm		10 kg
Hook Ø 7.5 mm		2 kg
Hanging rail Ø 25 mm, 600 mm T arm	for use in Invisible 6 holder set	20 kg
Hanging rail Ø 15 mm, 390 mm T arm	for use in Invisible 6 holder set	10 kg
Hanging rail 30 x 15 mm, 600 mm T arm	for use in Invisible 6 holder set	20 kg
Hanging rail 20 x 10 mm, 390 mm T arm	for use in Invisible 6 holder set	10 kg
Support bracket for wooden or glass shelf	for use in Invisible 6 holder set	20 kg
Bracket for hanging rail Ø 25 mm	per bracket	20 kg
Bracket for hanging rail Ø 15 mm	per bracket	10 kg
Bracket for hanging rail 30 x 15 mm	per bracket	20 kg
Bracket for hanging rail 20 x 10 mm	per bracket	10 kg
Bracket for wooden shelf	per bracket	20 kg
Bracket for glass shelf	per bracket	20 kg
Bracket 4 mm for wooden shelf	per bracket	10 kg
Bracket for wooden shelf	per bracket	15 kg
Angled shelf		15 kg
Hook rail for ties, belts etc.		10 kg
Universal bracket		20 kg
Fixing set for Invisible 6 profile		20 kg
Glass shelf 6 mm with cutouts (374-263)		15 kg
Glass shelf 6 mm (286-617)		20 kg

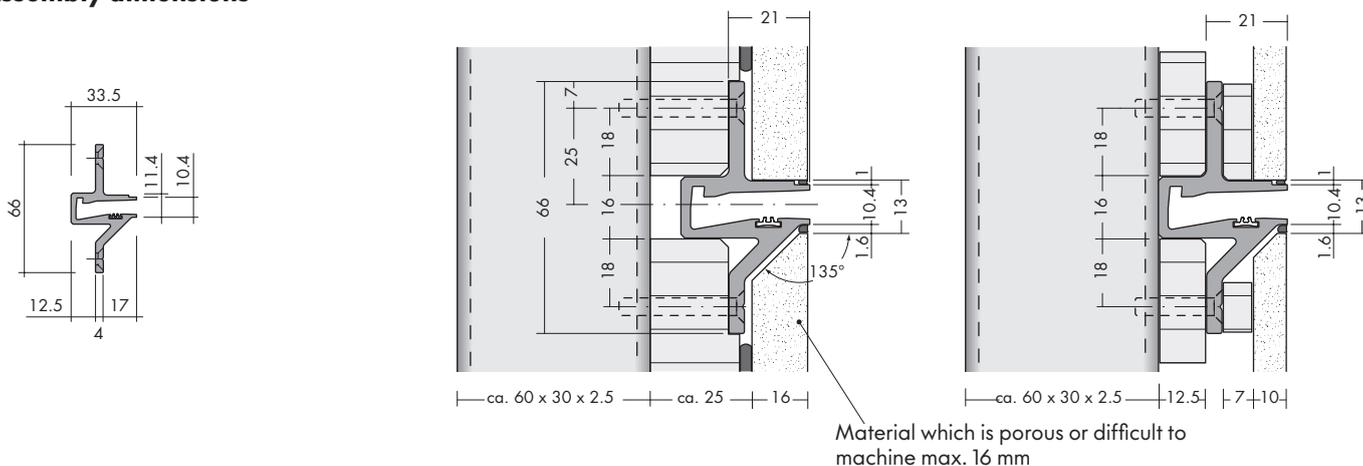
Invisible 6 C

Assembly and operating instructions

Assembly dimensions / Layout

- ❗ The fixation material and the wall must be capable of supporting a min. fraction weight of 180 kg. Please observe the indications concerning weight loading and ensure that the substructure of the wall units/furniture and their fixtures can support the expected loads. With free-standing furniture, ensure that there is sufficient stability even with the intended merchandise supports.

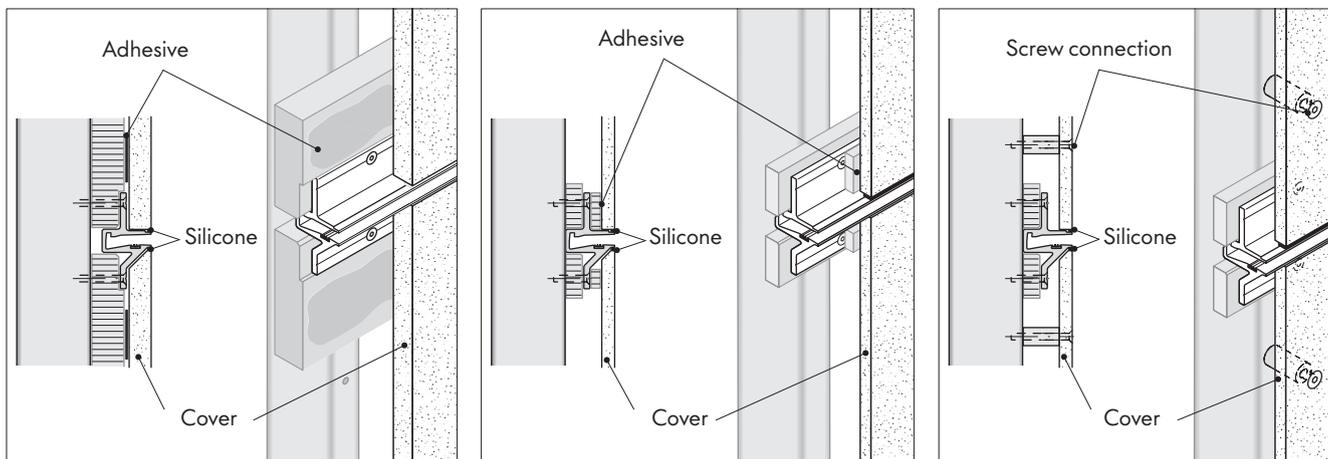
Assembly dimensions



- ❗ The type of adhesive depends on the cover material: e.g. plexiglass, plastic, stone, mineral fibre panels, etc.

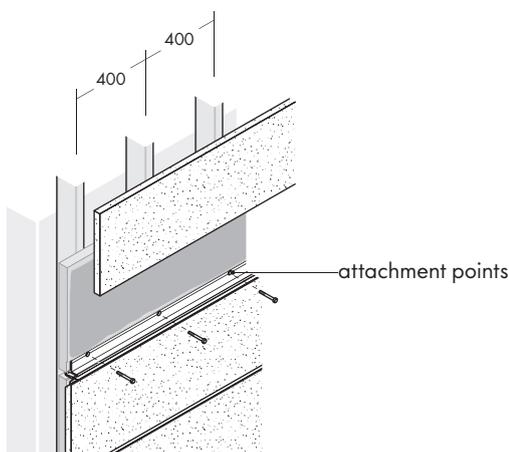
Examples of fixation

Invisible 6 C profile with Taprite screw M 6 x 35 mm screwed on to stable substructure (e.g. steel tube 60 x 30 x 2.5 mm). For drill hole in steel tube, see information from screw manufacturer. Distance between axes 400–max. 600 mm, screw fitting in wooden panelling at 200 mm intervals.



Maximum loads

Optimal distance between the uprights: 400 mm.

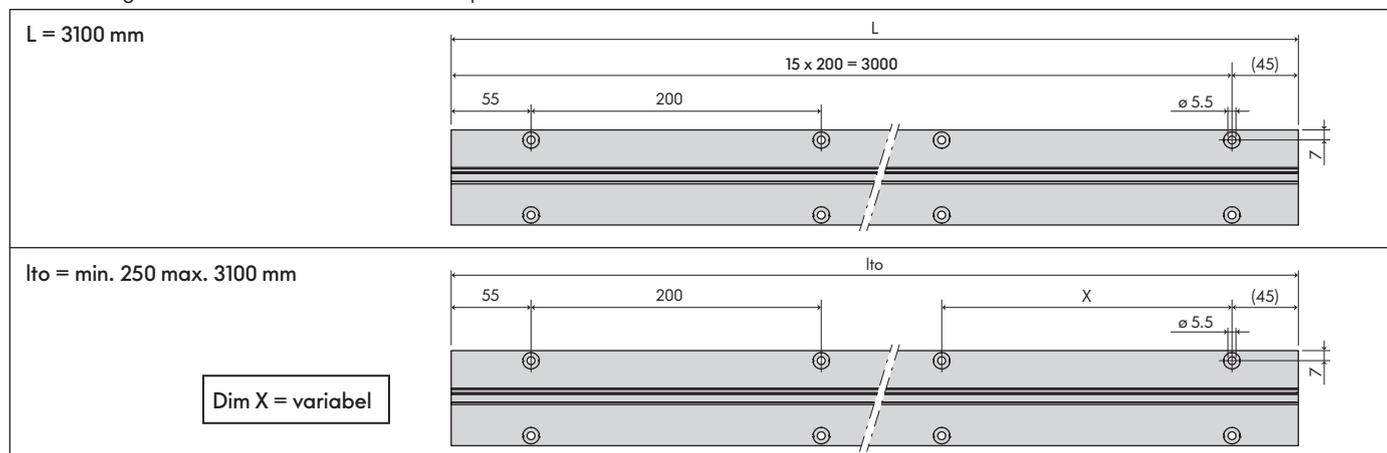


Invisible 6 C

Assembly and operating instructions

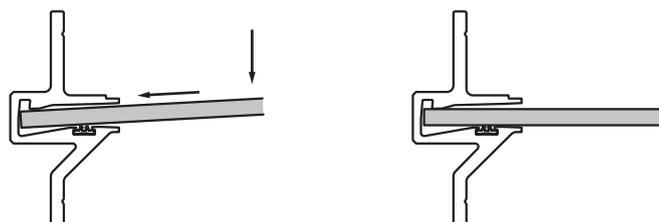
Dimensions of holes

The following is valid for Invisible 6 C: All fixation points are to be used with maximum loads.



Instructions of use

The Invisible accessories/shelves are inserted in to the holders or profile at a slight angle until the limit stop is reached. Then lower the accessory/shelf. Check that the accessory is correctly clicked into the profile.



Weight loading

- ❗ The indicated weight loads are always based on the total weights of the merchandise support and goods. Please observe that max. weight loading decreases as the merchandise support increases in length. Please observe that the inclination of the merchandise support changes with an increase in load. Different weights on the merchandise supports produce an uneven overall appearance of the goods display. Please note that the weight limit can reduce considerably when Invisible 6 C is used in glass and sheet metal. The max. weight loading of Invisible 6 C depends on the nature of the wall, on the number of fixation points as well as on the fixation material used. All fixation points are to be used with a maximum weight load. Please also observe the weight loads indicated in our sales documentation.

Max. load

Profile	per 625 mm	40 kg
Holder set	per holder	20 kg
Front arm Ø 25 mm		25 kg
Front arm 30 x 15 mm		25 kg
Front arm Ø 12 mm		10 kg
Front arm 4 mm		10 kg
Hook Ø 7.5 mm		2 kg
Hanging rail Ø 25 mm, 600 mm T arm	for use in Invisible 6 holder set	20 kg
Hanging rail Ø 15 mm, 390 mm T arm	for use in Invisible 6 holder set	10 kg
Hanging rail 30 x 15 mm, 600 mm T arm	for use in Invisible 6 holder set	20 kg
Hanging rail 20 x 10 mm, 390 mm T arm	for use in Invisible 6 holder set	10 kg
Support bracket for wooden or glass shelf	for use in Invisible 6 holder set	20 kg
Bracket for hanging rail Ø 25 mm	per bracket	20 kg
Bracket for hanging rail Ø 15 mm	per bracket	10 kg
Bracket for hanging rail 30 x 15 mm	per bracket	20 kg
Bracket for hanging rail 20 x 10 mm	per bracket	10 kg
Bracket for wooden shelf	per bracket	20 kg
Bracket for glass shelf	per bracket	20 kg
Bracket 4 mm for wooden shelf	per bracket	10 kg
Bracket for wooden shelf	per bracket	15 kg
Angled shelf		15 kg
Hook rail for ties, belts etc.		10 kg
Universal bracket		20 kg
Fixing set for Invisible 6 profile		20 kg
Glass shelf 6 mm with cutouts (374-263)		15 kg
Glass shelf 6 mm (286-617)		20 kg

Invisible 6 C

Assembly and operating instructions

vitra.

vitra.

INVISIBLE 6 P/L

ASSEMBLY AND OPERATING INSTRUCTIONS

Invisible 6 P/L

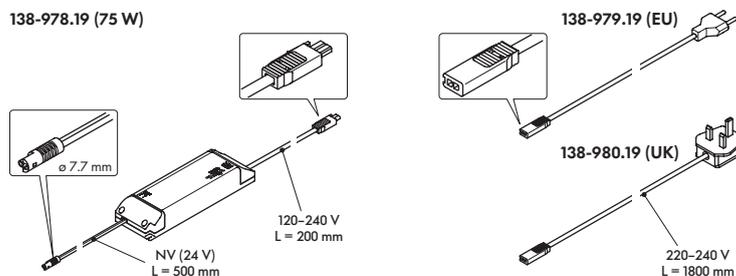
Assembly and operating instructions

TECHNICAL DATA SHEET INVISIBLE 6 P/L

Converter 24 V for electrified profile

Converter 75 W with input voltage 120–240 V / mains frequency: 50–60 Hz / electronic protection against overheating and short-circuit.

- Mains connection with connector for mains cable
- Nominal voltage – 24 V / SELV
- Safety class 2

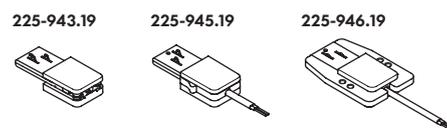


Single power adapter 24 V

Single power adapters can only be used with the Invisible 6 P/L system. Low voltage lighting may only be connected by trained personnel.

If multiple adapters and appliances are used, their total power consumption may not exceed the specified nominal current or fuse rating. The permissible nominal voltage and nominal current are also limited according to the adapters used (see printed label and safety information).

Permissible nominal current max. 4 A.



Invisible 6 P/L rail capacity

Profile length	L – 2580 mm	L – 3205 mm	L – 4455 mm
Max. number of shelves with lighting (6/10/13 W) size 620 x 420 mm	4 shelves	5 shelves	7 shelves

Product safety

Invisible 6 P/L electrification in detail: conductor rail with power supply, integrated into system support profile.

Correct functioning and safety are guaranteed when properly used. No liability is accepted in event of improper use. Product safety is based exclusively on the use of original Invisible 6 and 6 P/L accessories from Vitra.

No alterations may be made, for safety reasons; the only exception being the shortening of profiles from the right-hand side.

The safety instructions of the assembly instructions must be followed as well as the instructions on the labels of the individual parts.

The indicated nominal current (A) may not be exceeded. The number of shelves with lighting that are connected to the conductor rails also may not exceed the capacities indicated in the table.

In event of improper use or cleaning with liquids, a risk of electric shock exists due to possibly exposed live parts. Always disconnect from power before cleaning or servicing.

If rails or adapters exhibit visible signs of damage, disconnect them immediately and inform your service technician.

ⓘ Only use Invisible 6 and 6 P/L system accessories! Do not use any other parts.

The user is responsible for ensuring that any connected equipment is electrically, mechanically and thermally compatible with the conductor rail.

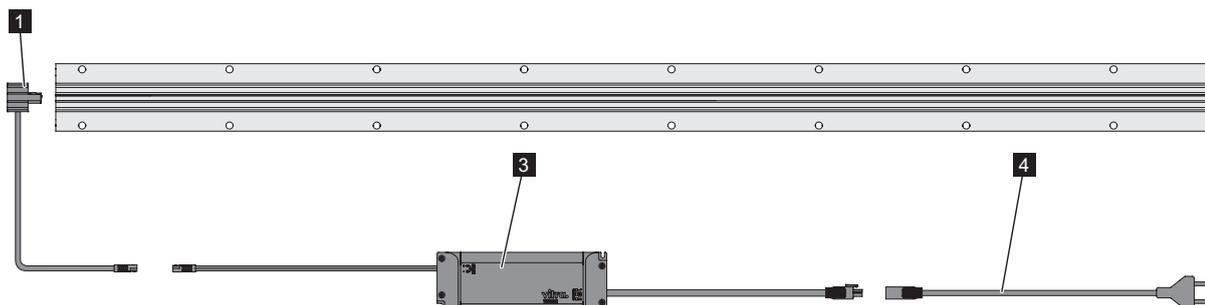
Invisible 6 P/L

Assembly and operating instructions

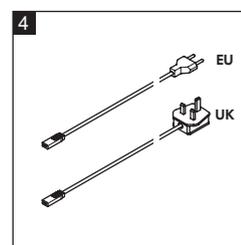
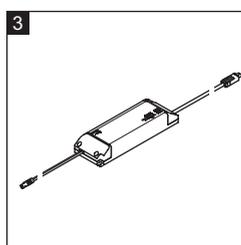
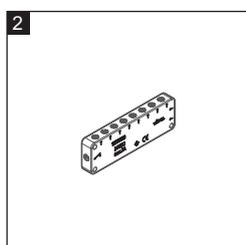
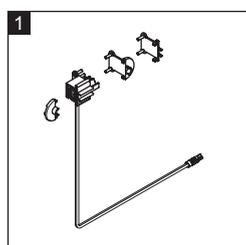
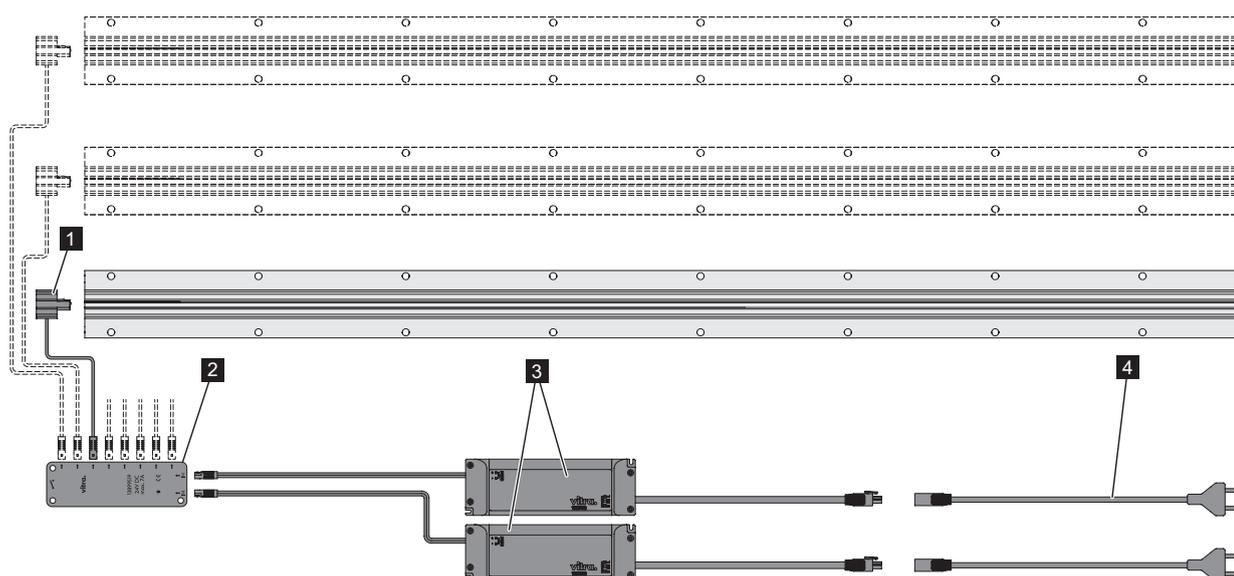
Vitra connection system

⚠ Check the power consumption of electrical appliances! Their maximum power consumption should be 10% below the nominal power of the transformer.

Powering with 75 W transformer



Powering with 150 W transformer



24 V power supply

Vitra 24 V distributor, 8 way

Vitra LED transformer

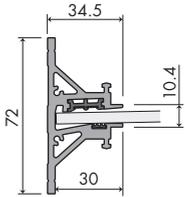
Vitra mains cable 220-240 V

Invisible 6 P/L

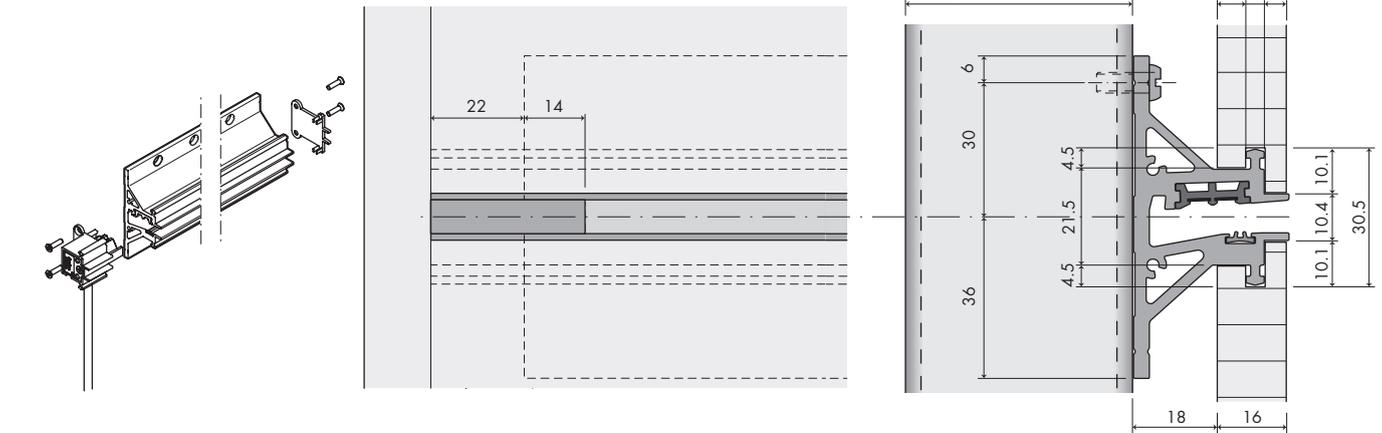
Assembly and operating instructions

Assembly dimensions / layout

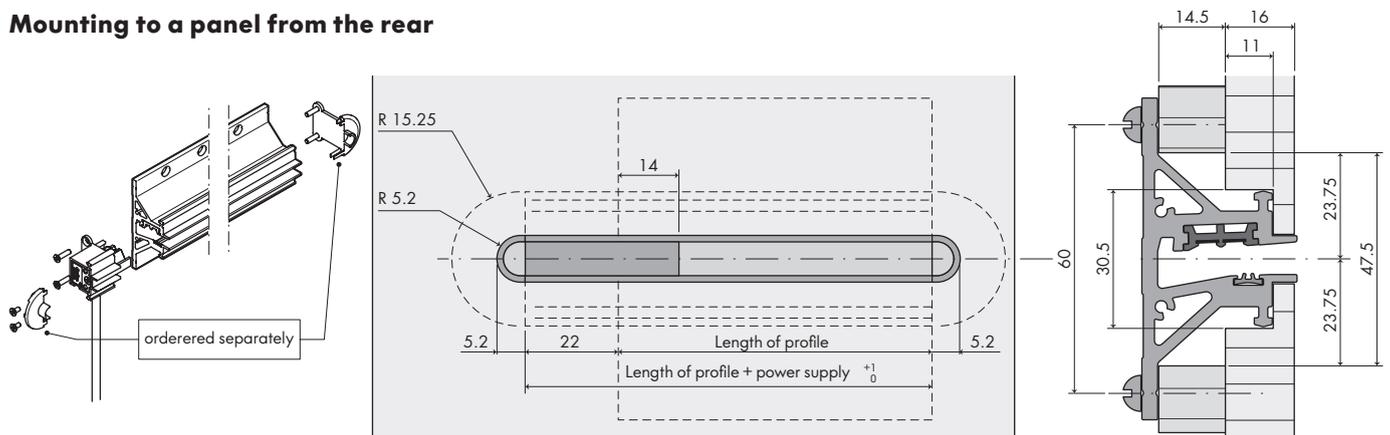
! The fastening material and the wall must be capable of supporting a min. tensile force of 180 kg per fastening point. Please observe the indications concerning weight loading and ensure that the substructure of the wall units/furniture and their fixtures can support the expected loads. With free-standing furniture, ensure that there is sufficient stability even with the intended merchandise supports. Important information on electrified Invisible 6 P/L can be found in "Technical data sheet Invisible 6 P/L".



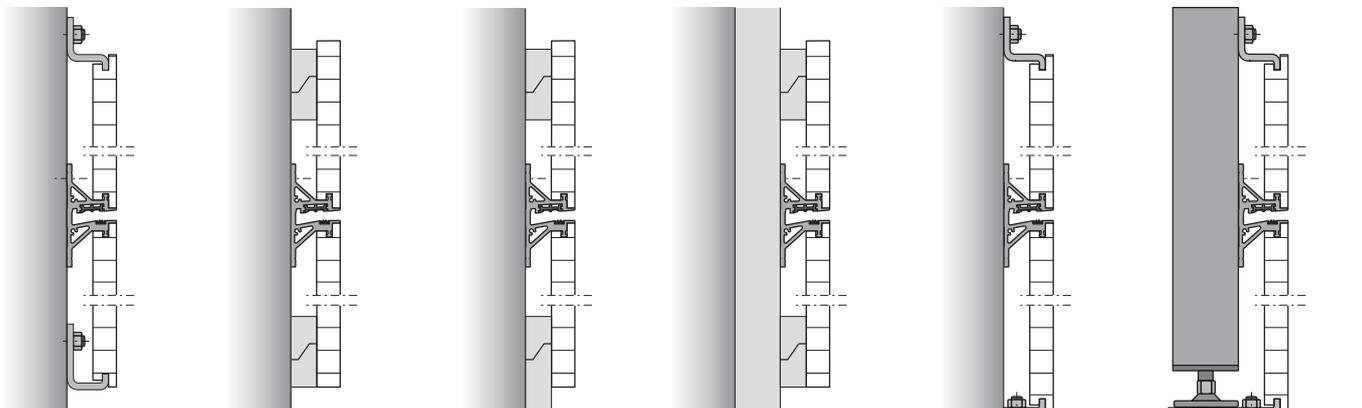
Mounting to a substructure



Mounting to a panel from the rear



Fastening examples



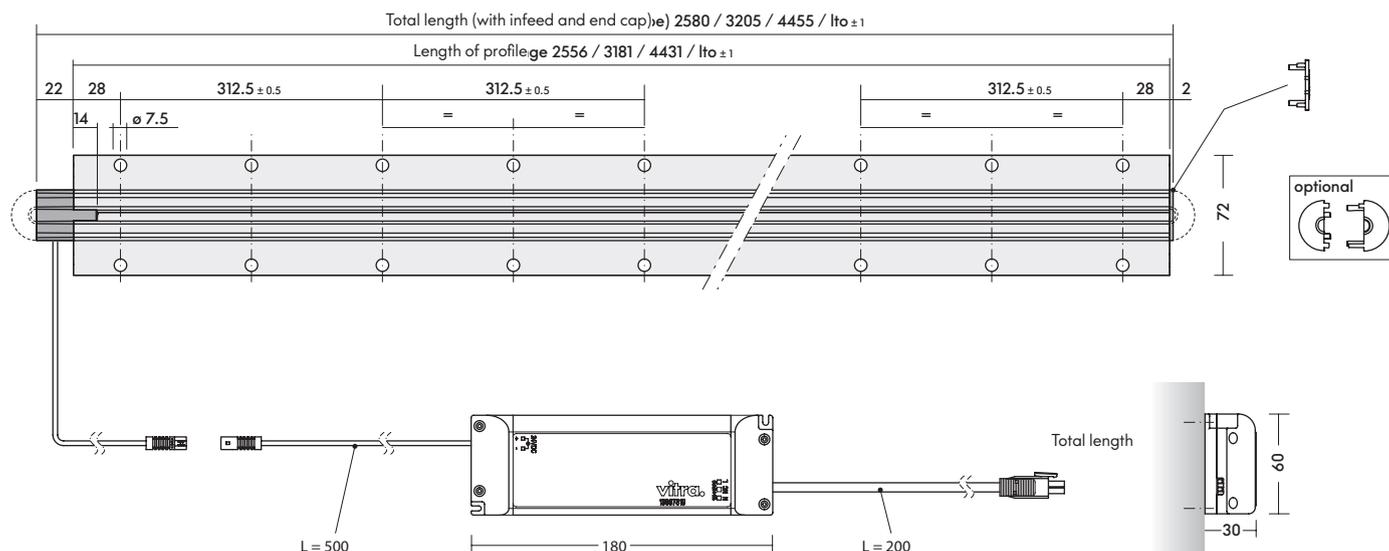
Invisible 6 P/L

Assembly and operating instructions

Dimensions of holes

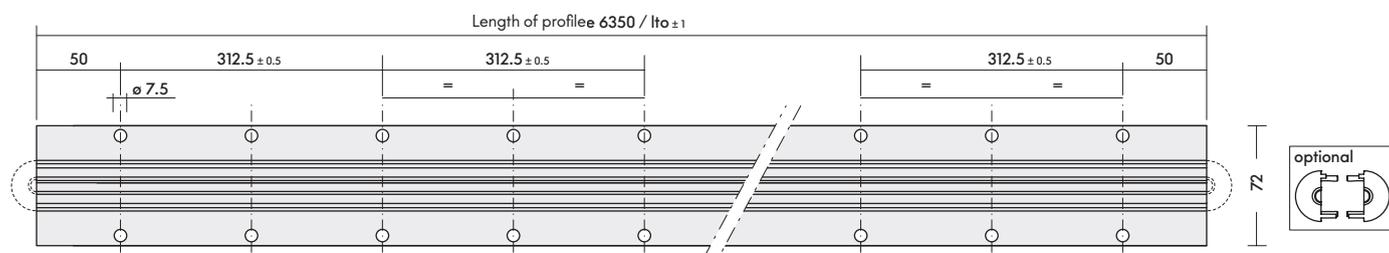
All fastening points are to be used in event of maximum loads!

! End caps must be fitted on profile with conductor rail.



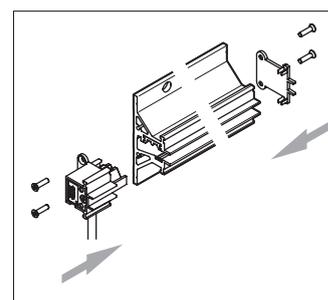
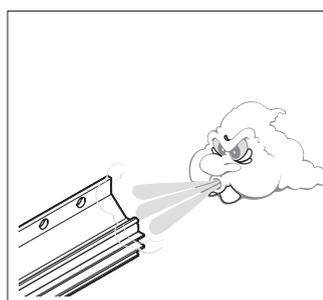
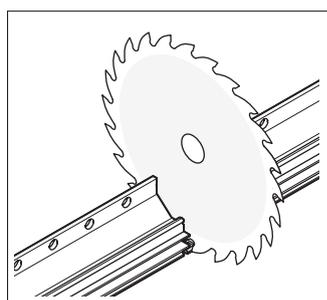
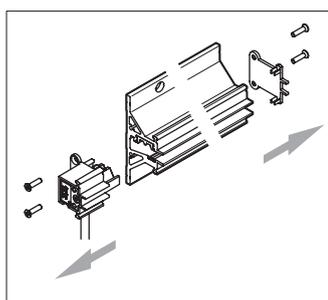
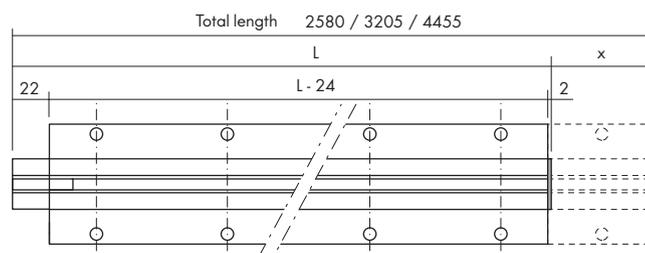
Dimensions of holes - profile without electrical power

All fastening points are to be used in event of maximum loads!



Shortening a profile

! The electrical components and end cap must be removed before a profile is shortened. Always shorten a profile from the right-hand side and trim the edges. Make sure that all shavings are removed from the profile. The electrical components and end cap must then be fitted back onto the profile.

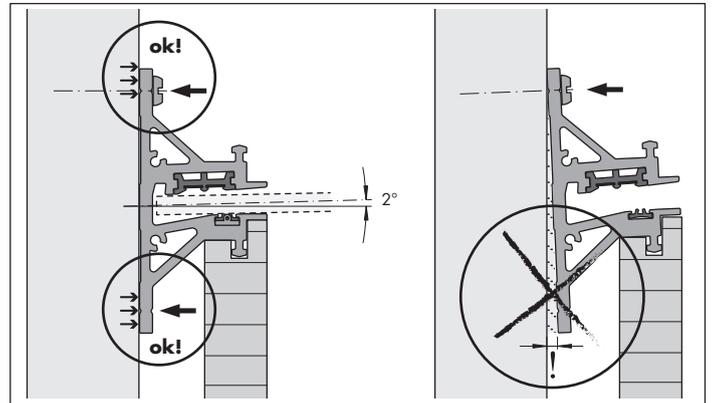
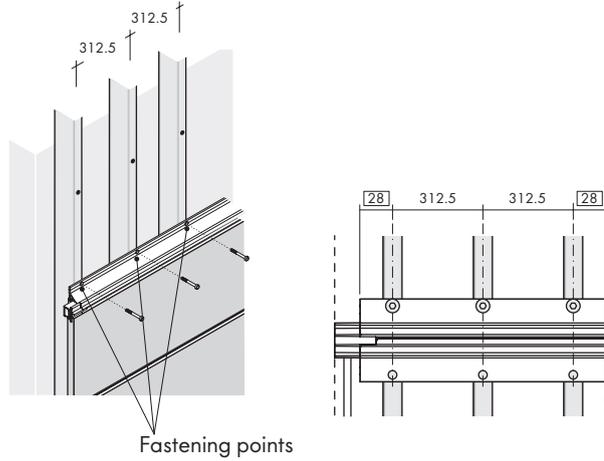


Invisible 6 P/L

Assembly and operating instructions

Maximum loads

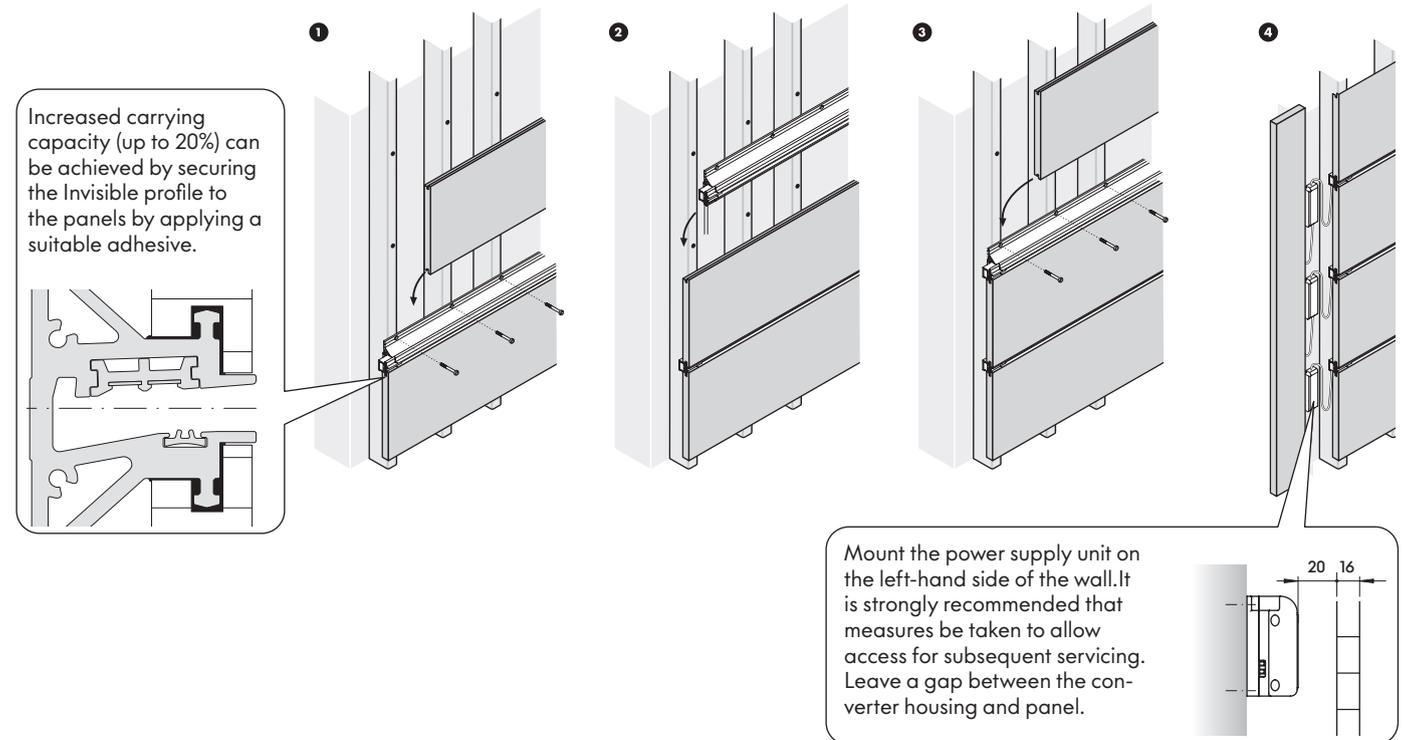
Optimal distance between the uprights: 312.5 mm



❗ The system's functionality can only be guaranteed if the profile lies completely flat against the aligned mounting surface! → Use pan-head screws!
Merchandise support slightly inclined upward (2°).

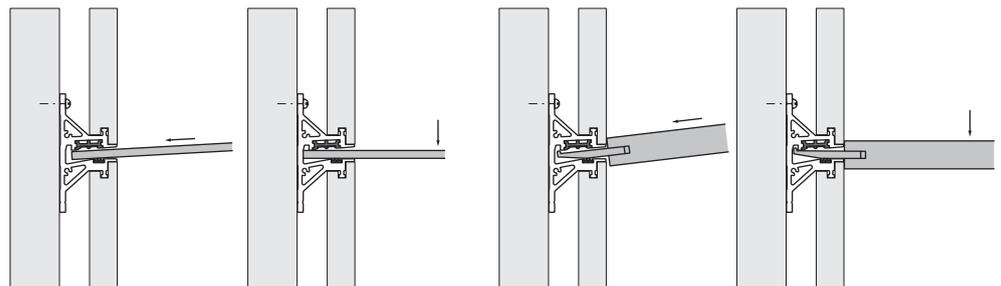
Assembly instructions

Profile assembly



Instructions for use

Insert the not electrified Invisible support or shelf into the profile at a slight angle until the limit stop is reached. Then lower the support or shelf. Check that the Invisible merchandise support or shelf has correctly clicked into place.



Invisible 6 P/L

Assembly and operating instructions

Glass shelf dimension for LED lighting fixture with direct contact

225-943.19

349-599.05 580 mm (6 W)
349-600.05 890 mm (10 W)
349-601.05 1140 mm (13 W)

Adhesive tape

Strip conductor on underside of glass shelf (stuck or printed on) e.g.

- Two-pole ribbon cable to stick Vitra no. 064-995.00
- Copper shielding tape: SCOTCH 1181
- Printing of strip conductors: contact Vitra

min. 150/max. 410

min. 300/max. 1250

25±0.3

46.5

R 8

63±0.3

21±0.3

6.8±0.3

Wooden shelf dimension for LED lighting fixture with cable connection

321-729.31

225-946.19

349-560.05 580 mm (6W)
349-561.05 890 mm (10W)
349-562.05 1140 mm (13W)

580
890
1140

Production drawings of wooden shelves are available for downloading on www.vitra.com or can be received on request.
Drawing no. 251-870

25

46.5

R 8

21±0.3

6.8±0.3

red (brown)

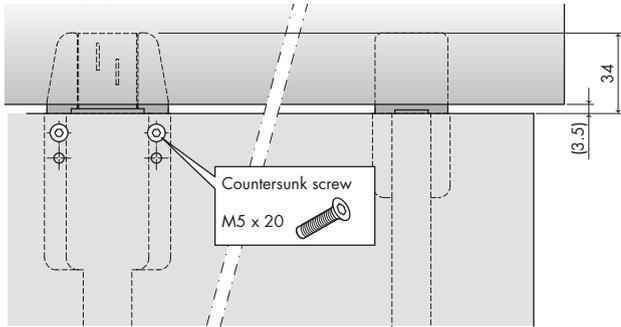
blue (white)

Invisible 6 P/L

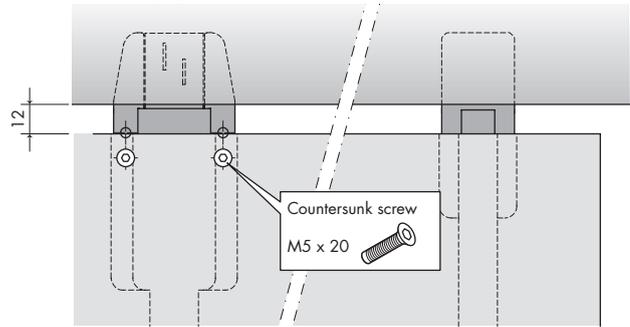
Assembly and operating instructions

Wooden shelf with lighting set: Distance to back panel

Assembly option 1

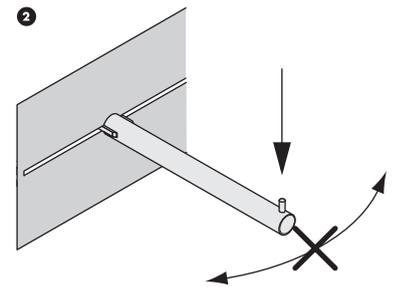
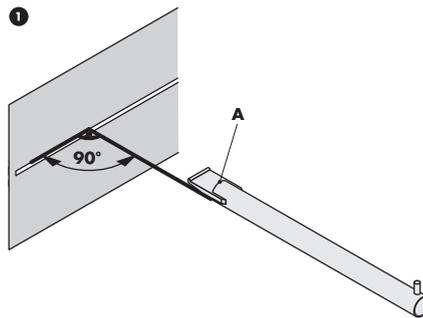


Assembly option 2



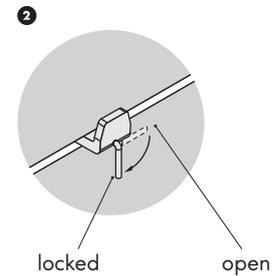
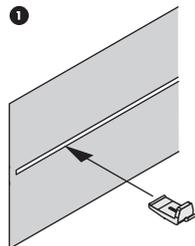
Careful handling with merchandise support for Invisible 6 P/L

1. Lift the merchandise support slightly and insert it into the profile at a 90° angle until you reach limit stop **A**.
2. Release the merchandise support and check that it is correctly secured. Do not try to force it to the left or right.



Universal bracket for Invisible 6 P/L

1. Lift the bracket slightly and insert it into the profile at a 90° angle until you reach the limit stop.
2. Fix the universal bracket into place with the locking lever. Check that it is correctly secured.



Weight loads

! The indicated weight loads are always based on the total weights of the merchandise support and goods. Please note that max. permissible load decreases as the merchandise support increases in length. Please note that the inclination of the merchandise support changes with an increase in load. Different weights on the merchandise supports result in an uneven overall appearance of the goods display. Please note that the weight limit can be reduced considerably when mounting in glass and sheet metal. The max. permissible load of the Invisible 6 P/L depends on the nature of the wall, the number of fastening points as well as the fastening material used. All fastening points are to be used in event of a maximum weight load. Please also observe the weight loads indicated in our sales documentation.

Max. load

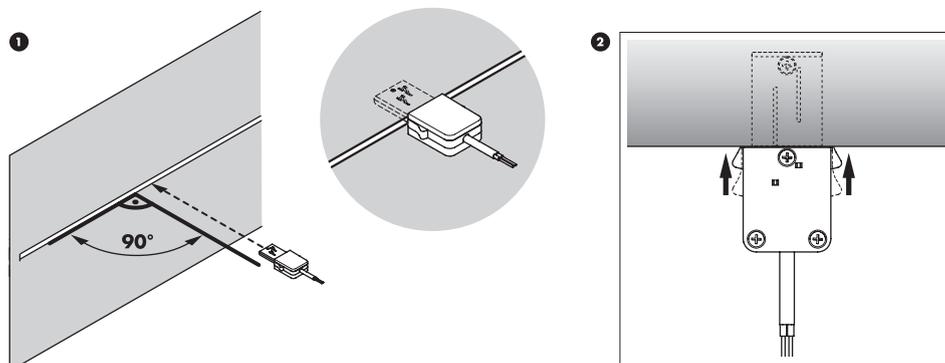
Profile	per 625 mm	40 kg
Front arms Ø 25 mm		25 kg
Hanging rail T-arm Ø 25 x 600 mm		20 kg
Bracket Ø 25 mm for hanging rail	per bracket	20 kg
Glass shelf 6 mm with cutouts (374-263)		15 kg
Glass shelf 6 mm (286-617)		20 kg
Bracket Ø 25 mm (wooden shelf)	per bracket	20 kg
Shelf support bracket Ø 25 mm		20 kg
Bracket Ø 15 mm (wooden shelf)	per bracket	15 kg
Front arm Ø 12 mm		10 kg
Hanging rail T-arm Ø 15 x 390 mm		10 kg
Bracket for hanging rail Ø 15 mm	per bracket	10 kg
Angled shelf		15 kg
Hook rail for ties, belts etc.		10 kg
Hook Ø 7.5 mm		2 kg

Invisible 6 P/L

Assembly and operating instructions

Single power adapter for Invisible 6 P/L

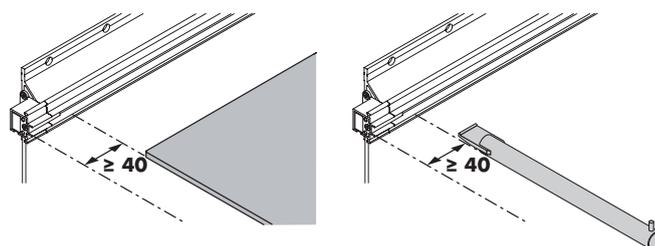
1. Insert power adapter into profile at a 90° angle until limit stop is reached.
2. Lock adapter in place by pressing the catches at the side.



Invisible 6 P/L profile

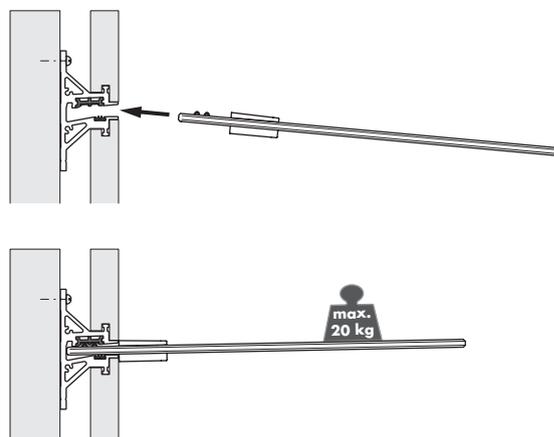
When attaching supports or shelves, please observe a min. distance of 40 mm to the power adapter (left-hand side of profile).

Warning: Only use the conductor rail for shelves with lighting and for low voltage appliances up to 13 watts (24 V).

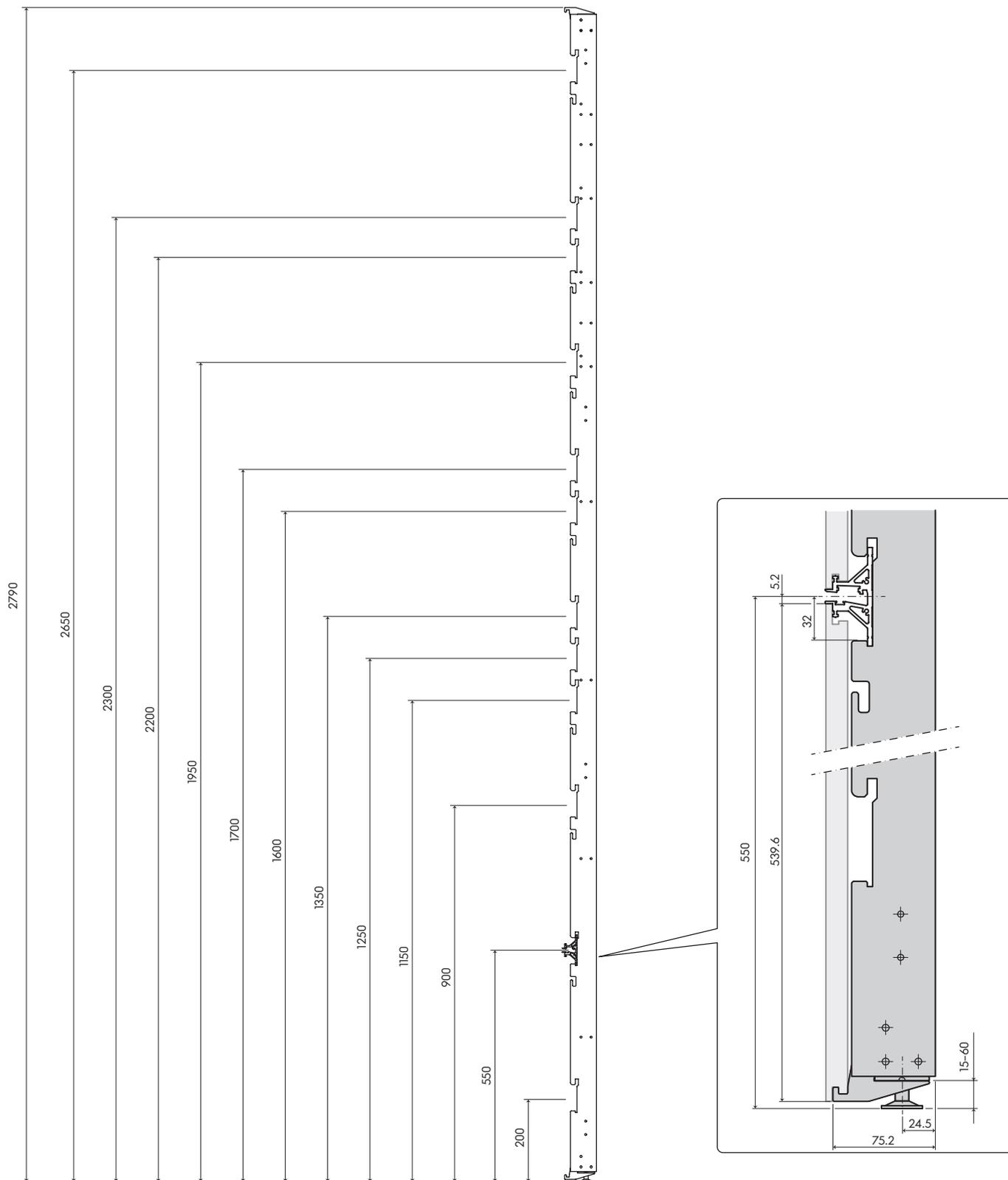


Shelf with lighting for Invisible 6 P/L

- ⓘ In order to avoid any damage to the contact on the electrical adapters, it is important that the shelf is slightly inclined downwards when inserted into the electrical profile.



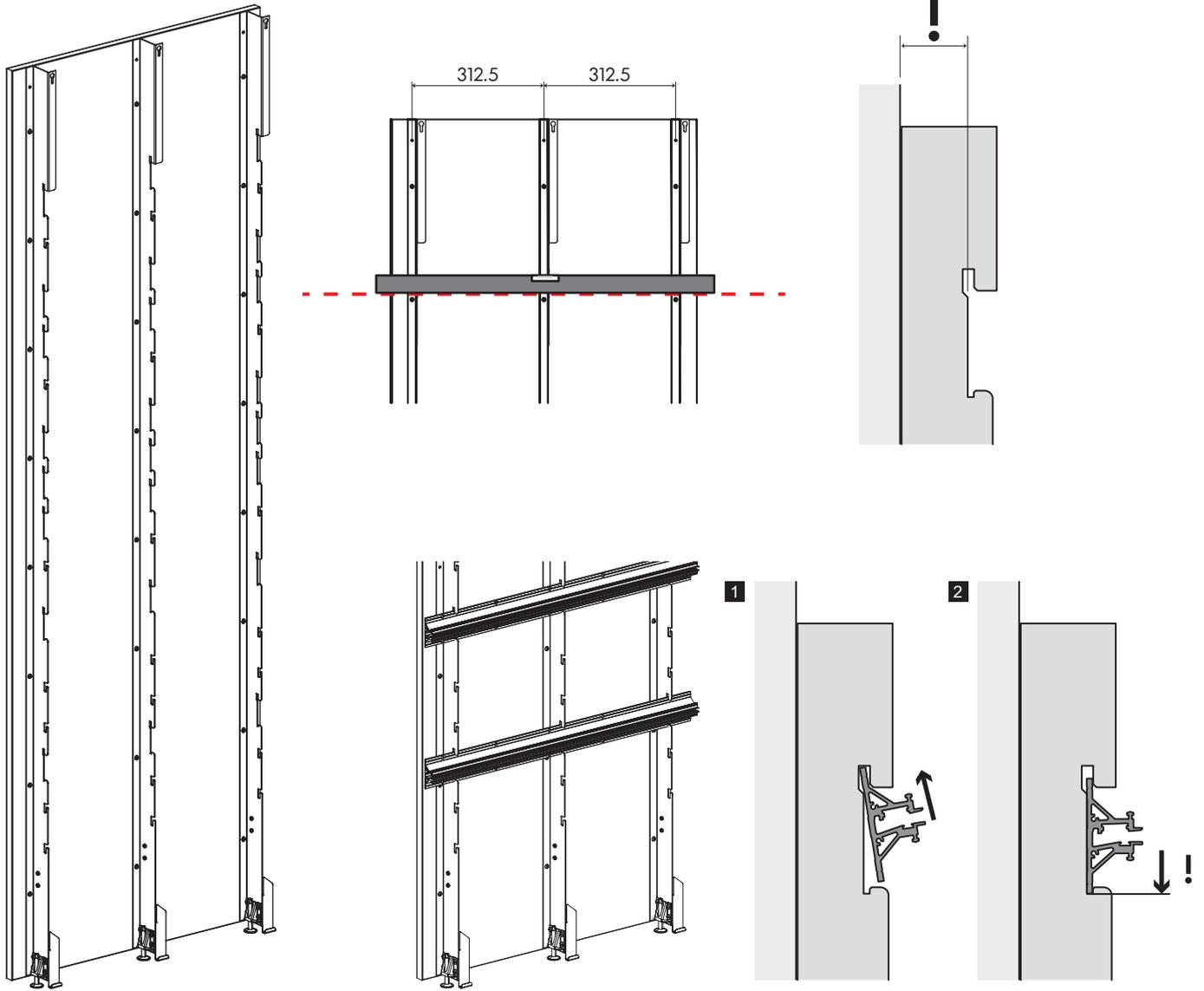
Change by Invisible 6 P/L - Dimensions of the substructure



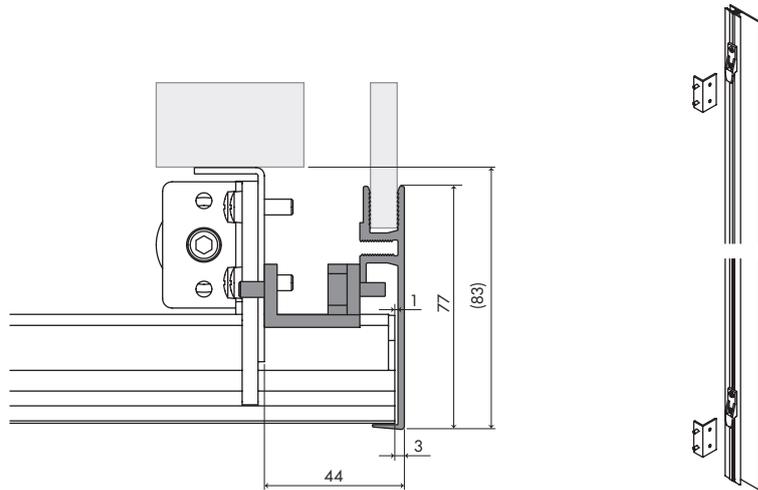
Invisible 6 P/L

Assembly and operating instructions

Change by Invisible 6 P/L - Alignment and installation the substructure



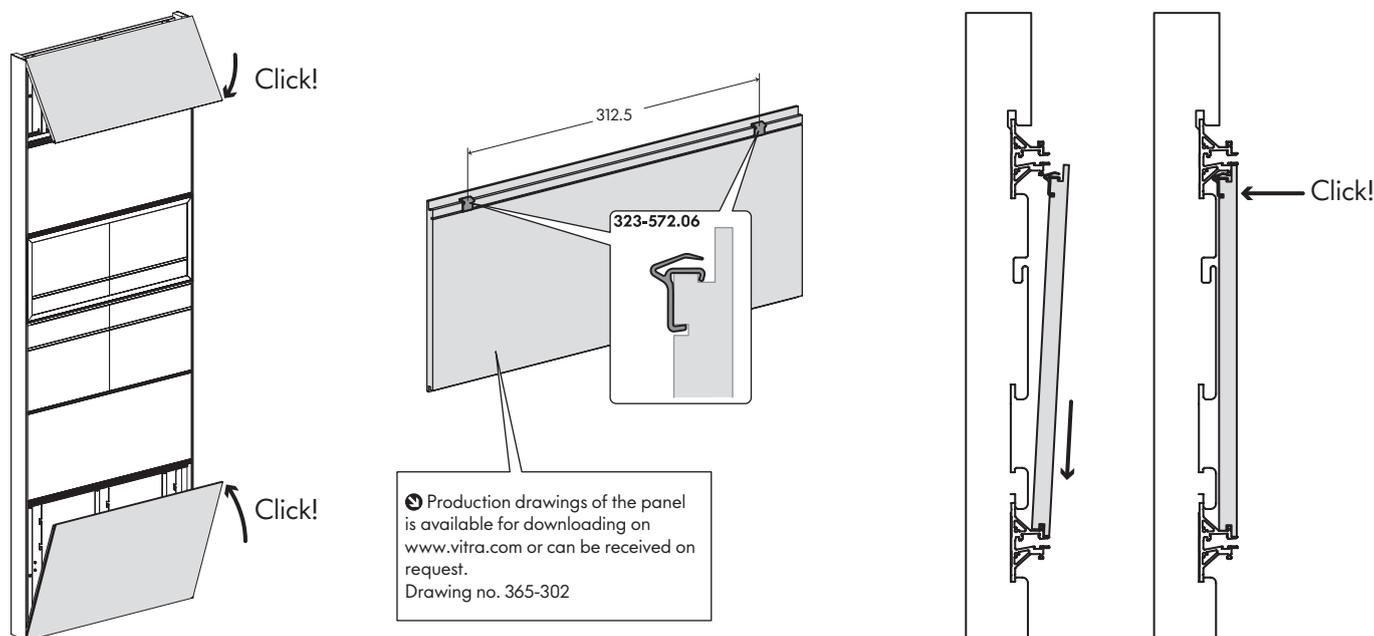
Side cover set



Invisible 6 P/L

Assembly and operating instructions

Change by Invisible 6 P/L - Attaching the panels



Change by Invisible 6 P/L - Supplier for printable textile back walls in connection with Vitra's changeable frames 336-389.00

PlotFactory AG

Gewerbezentrum Moos
8484 Weisslingen

Tel. +41 52 397 30 00 / Fax. +41 52 397 30 01
www.plotfactory.ch / info@plotfactory.ch

▷ Contact person:

Yves Capaul

Tel. +41 52 397 30 41

yves.capaul@plotfactory.ch

▷ In the absence:

Nicola Tolve

Tel. +41 52 397 30 07

nicola.tolve@plotfactory.ch

The following information supports coordination with the firm PlotFactory:

- Full contact details
 - Contact information for the person ordering for possible queries
 - Delivery address
 - Billing address
- What are the dimensions of the changeable frame ordered from Vitra (width in mm * length in mm)?
 - Width (hto) min. 350 mm – max. 2100 mm in 350 steps
Note: for the width, please provide the system axis (distance between two horizontal lines). Conversion to the actual measurement of the textile back walls is carried out by the firm Plotfactory
 - Length (lto) min. 312.5 mm – max. 1875 mm (no grid size must be noted)
- Printing data
 - Preferably PDF files in 1:1 format
Note: allowance of 16 mm per side for the print format
 - Resolution 72–300 dpi.
Note: it is recommended that the customer uses files in 1:1 PDF format for the layout during checking and views them at 100%–110%
- Data transfer: via <https://www.wetransfer.com/>
Note: a secure FTP access can be set up for data volumes from 2 GB.
Further information on data delivery: <http://www.plotfactory.ch/medias/plotfactory/pdf/datenlieferung-3-2012.pdf>
- Printing proofs/color samples
 - Color samples for adaptation
 - As BGV reference or
 - Pantone shade
Note: printing proofs are, in principle, possible, but the expenses are to be covered
- Delivery date
 - Details of the binding delivery date after release of the «Good to Print» and the order confirmation
 - Previously determined details are approximate values and originate from an optimal processing of the order
- Transportation and packaging
 - Variable depending on size and quantity
 - Merchandise can also be collected from the company headquarters by prior arrangement

☎ The production drawing of the changeable frame is available for downloading on www.vitra.com or can be received on request.
Drawing no. 336-389

vitra.

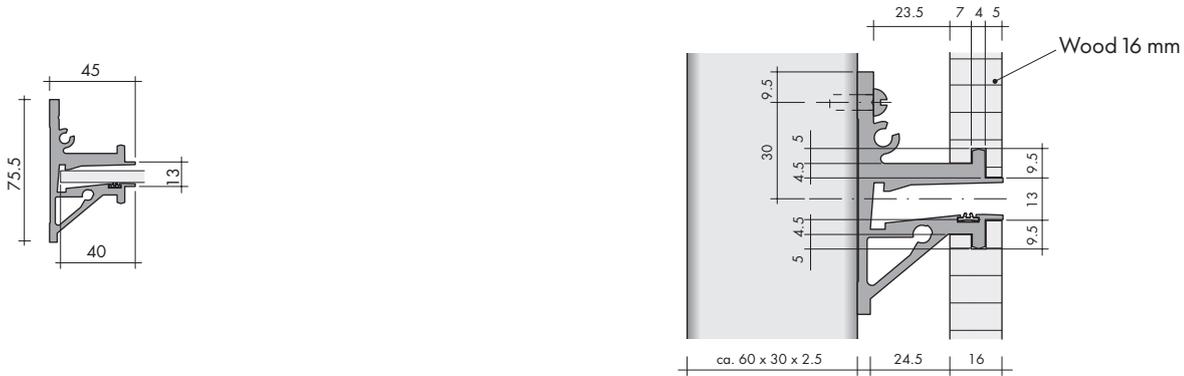
INVISIBLE 8

ASSEMBLY AND OPERATING INSTRUCTIONS

Assembly dimensions / Layout

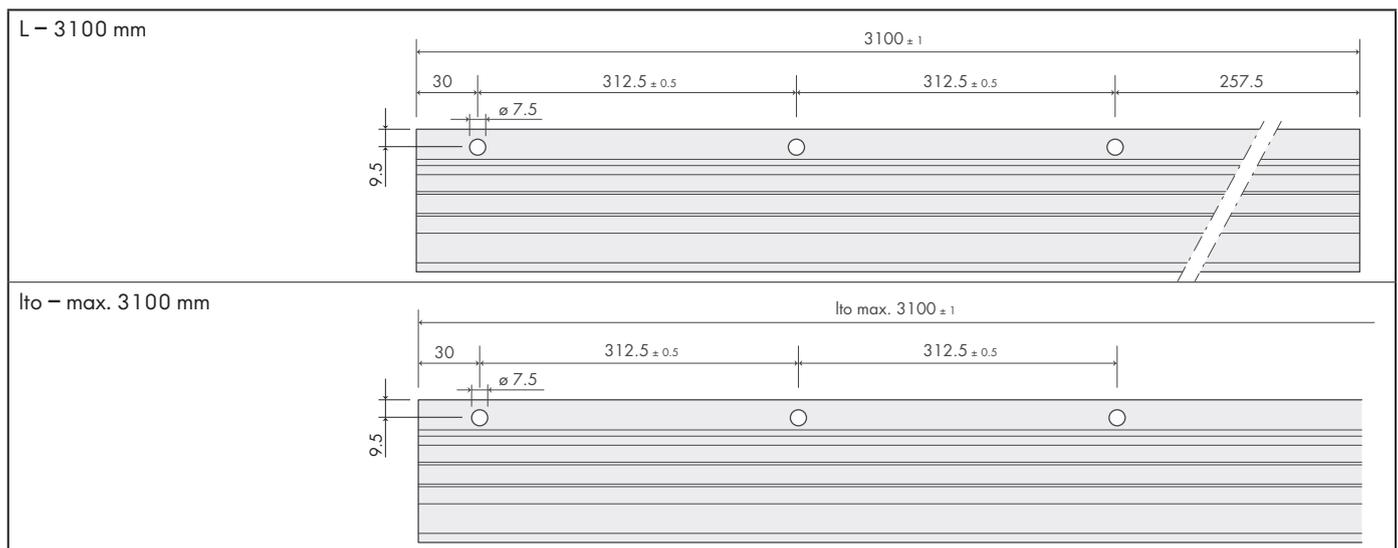
! The fixation material and the wall must be capable of supporting a min. fraction weight of 180 kg.
 Please observe the indications concerning weight loading and ensure that the substructure of the wall units/furniture and their fixtures can support the expected loads.
 With free-standing furniture, ensure that there is sufficient stability even with the intended merchandise supports.

Assembly dimensions

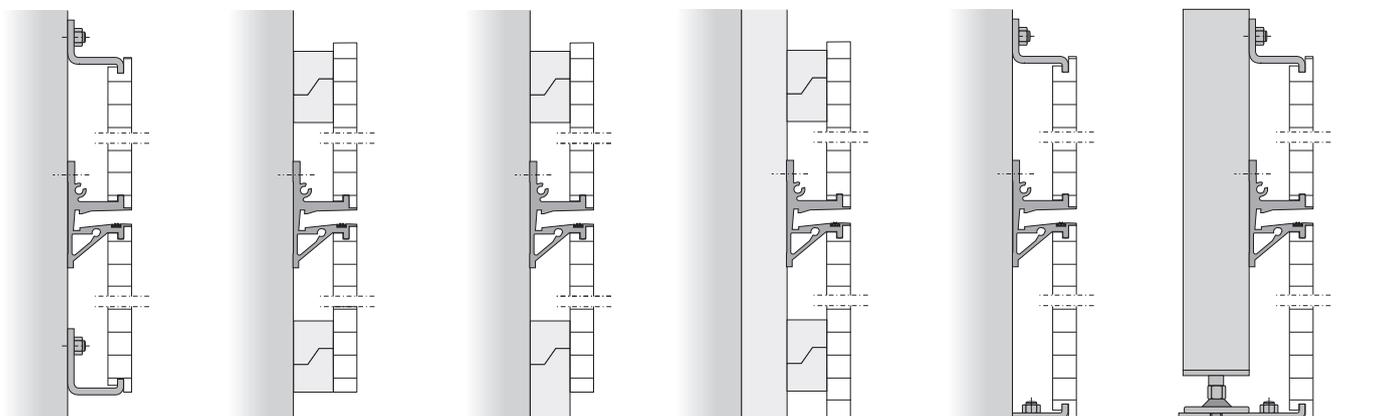


Dimensions of holes

All fixation points are to be used with maximum loads.



Examples of fixation

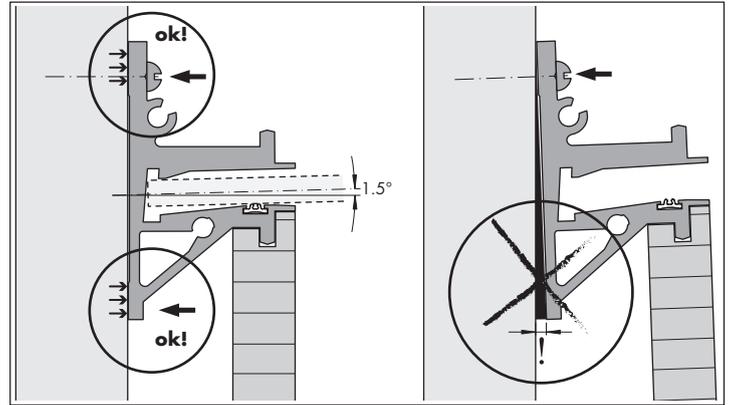
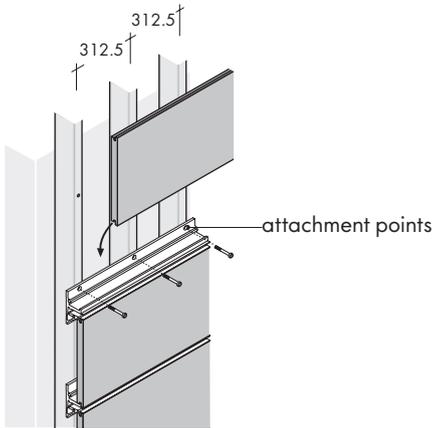


Invisible 8

Assembly and operating instructions

Maximum loads

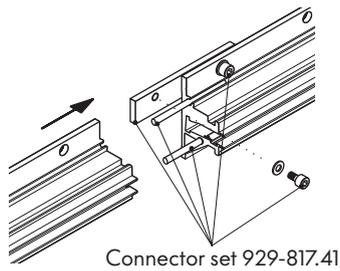
Optimal distance between the uprights: 312.5 mm.



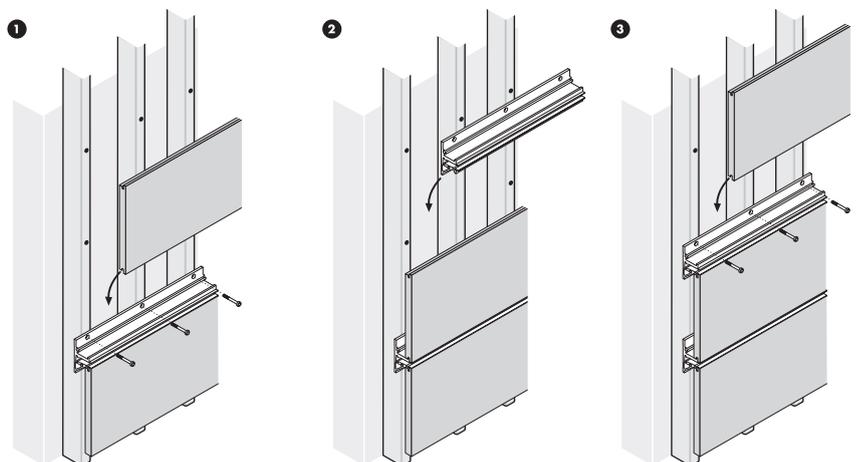
❗ The system's functionality can only be guaranteed if the profile lies completely flat against the aligned mounting surface! → Use pan-head screws!
Merchandise support slightly inclined upward (1.5°).

Assembly instructions

Assembly profile, connector set



Increased carrying capacity (up to 20%) can be achieved by securing the Invisible profile to the panels, by applying a suitable adhesive.

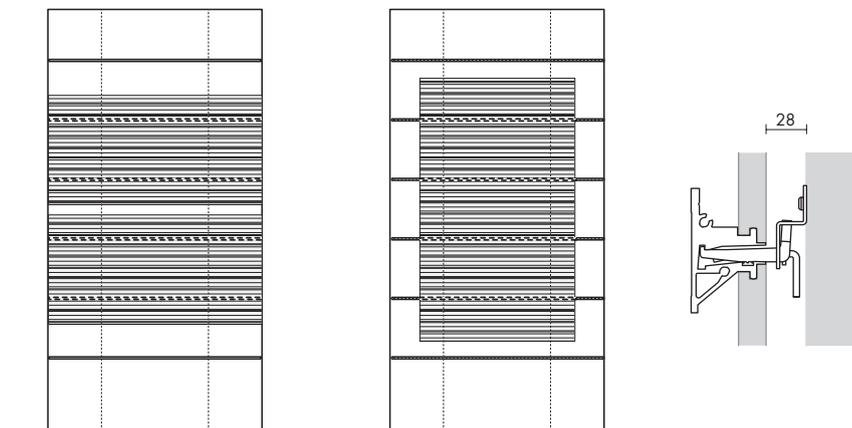
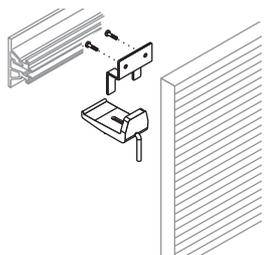


Invisible 8

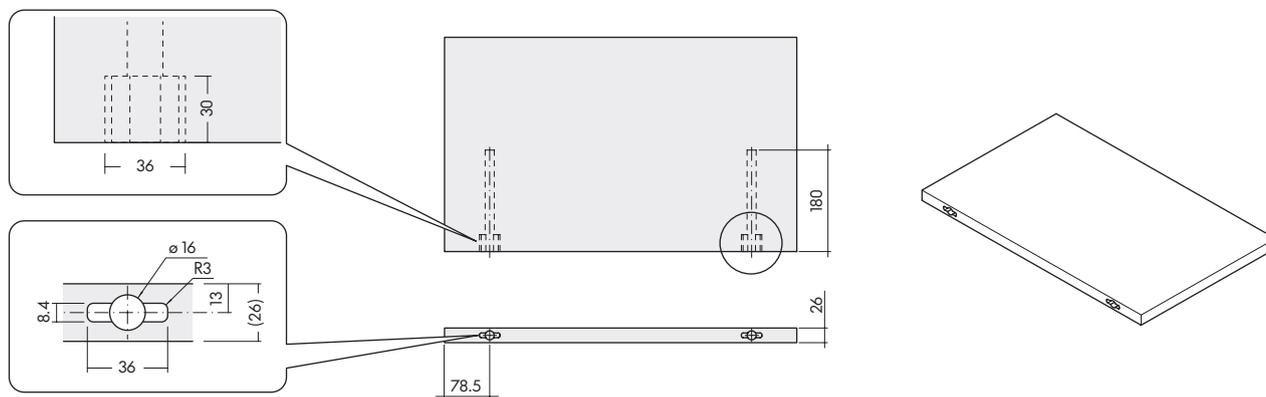
Assembly and operating instructions

Fixing set for Invisible 8 profiles

To be screwed to the back of wooden panels.



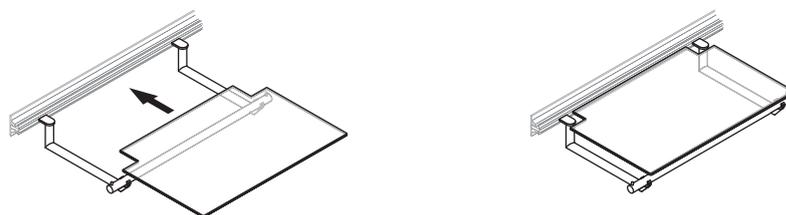
Shelf dimension for bracket



Glass shelf 8 mm with cutouts (safety glass)

to be inserted into the profile. The cutouts make it possible to insert further stepped brackets (987-883.01/.30) for hanging rail.

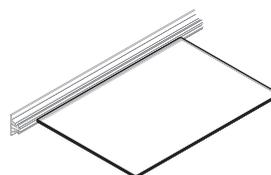
❗ Drawing no.: 375-916



Glass shelf 8 mm safety glass

to be inserted into the profile.

❗ Drawing no.: 286-929



Invisible 8

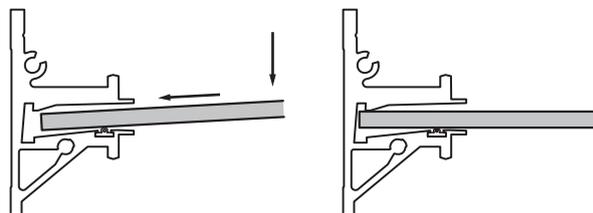
Assembly and operating instructions

Instructions of use

The Invisible accessories/shelves are inserted in to the holders or profile at a slight angle until the limit stop is reached.

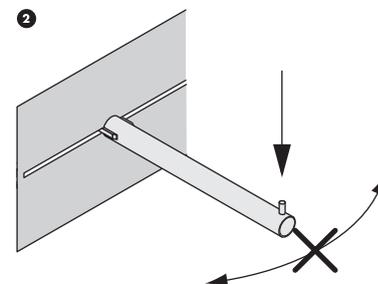
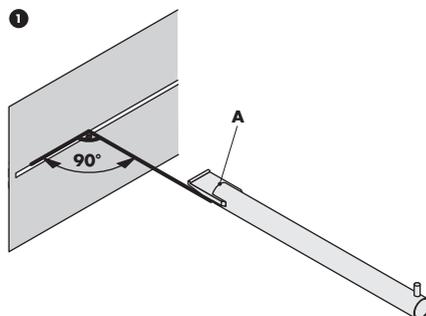
Then lower the accessory/shelf.

Check that the accessory is correctly clicked into the profile.



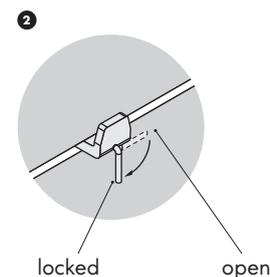
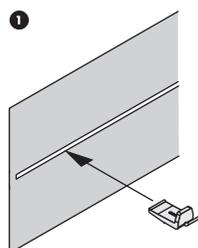
Careful handling with accessories for Invisible 8

1. Lift the support arm slightly and insert it into profile at a 90° angle until you reach limit stop »A«.
2. Release the support arm and check that it is correctly secured. Do not try to force it to the left or right.



Universal bracket for Invisible 8

1. Lift the universal bracket slightly and insert it into profile at a 90° angle until you reach the limit stop.
2. Fix the universal bracket into place with the locking lever. Check that it is correctly secured.



Weight loading

- !** The indicated weight loads are always based on the total weights of the merchandise support and goods.
Please observe that max. weight loading decreases as the merchandise support increases in length.
Please observe that the inclination of the merchandise support changes with an increase in load. Different weights on the merchandise supports produce an uneven overall appearance of the goods display.
The max. weight loading of Invisible 8 depends on the nature of the wall, on the number of fixation points as well as on the fixation material used. All fixation points are to be used with a maximum weight load.
Please also observe the weight loads indicated in our sales documentation.

Max. load

Profile	per 625 mm	40 kg
Front arms Ø 25 mm		25 kg
Bracket mm for hanging rail Ø 25	per bracket	20 kg
Bracket for wooden shelf	per bracket	15 kg
Bracket	per bracket	20 kg
Universal lug for wooden back panel	per lug	20 kg
Fixing set	per fixing set	20 kg
Glass shelf 8 mm with cutouts (375-916)		15 kg
Glass shelf 8 mm (286-929)		20 kg

Invisible 8

Assembly and operating instructions

vitra.

MIXMIX

ASSEMBLY AND OPERATING INSTRUCTIONS

Assembly dimensions / Layout

The choice and arrangement of the fixing sets and profiles must be adapted to the respective assortment and expected load.

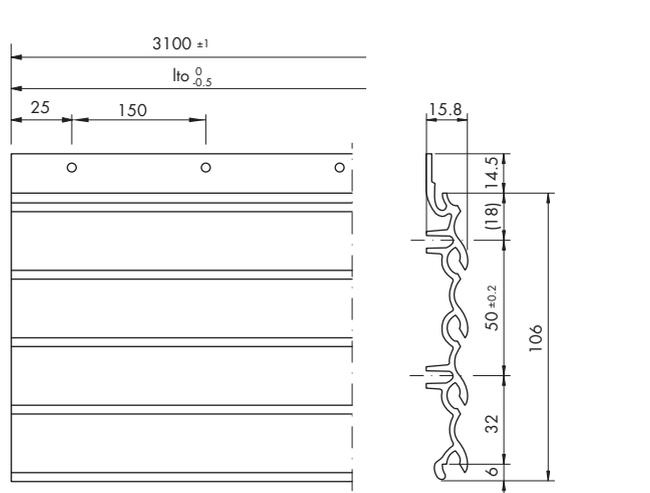
Several fixing sets are available for fixation MixMix panels:

for Mono 55, Mono 20, Push 43, Stripes, Invisible 6, Invisible 8, Beam and Xero Twin P/L and for screwing on to the wall.

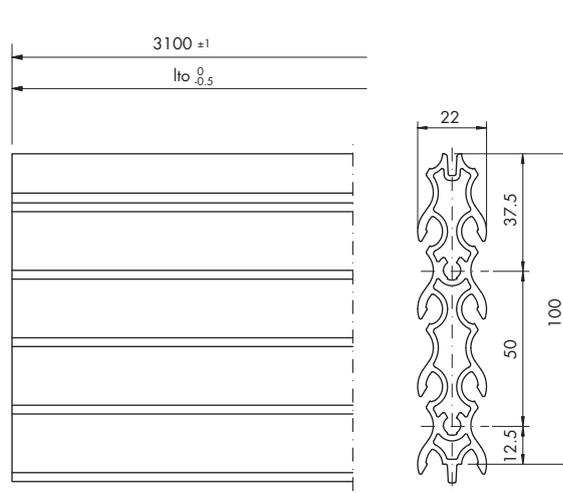
MixMix profiles are available in two different versions:

- One-sided (16 mm) assembled on wooden panels and in bracket frame.
- Two-sided (22 mm) assembled between frames (min. 25 mm, e.g. Kado).

One-sided



Double-sided

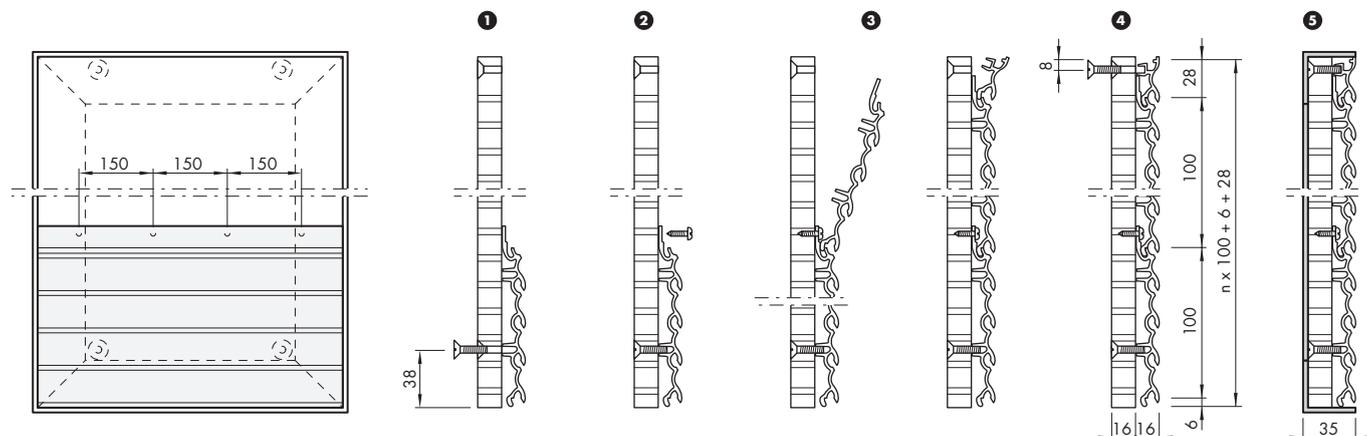


Assembly instructions

One-sided (16 mm) assembled on wooden panels and in bracket frame:

The following steps must be carried out when assembling a one-sided profile:

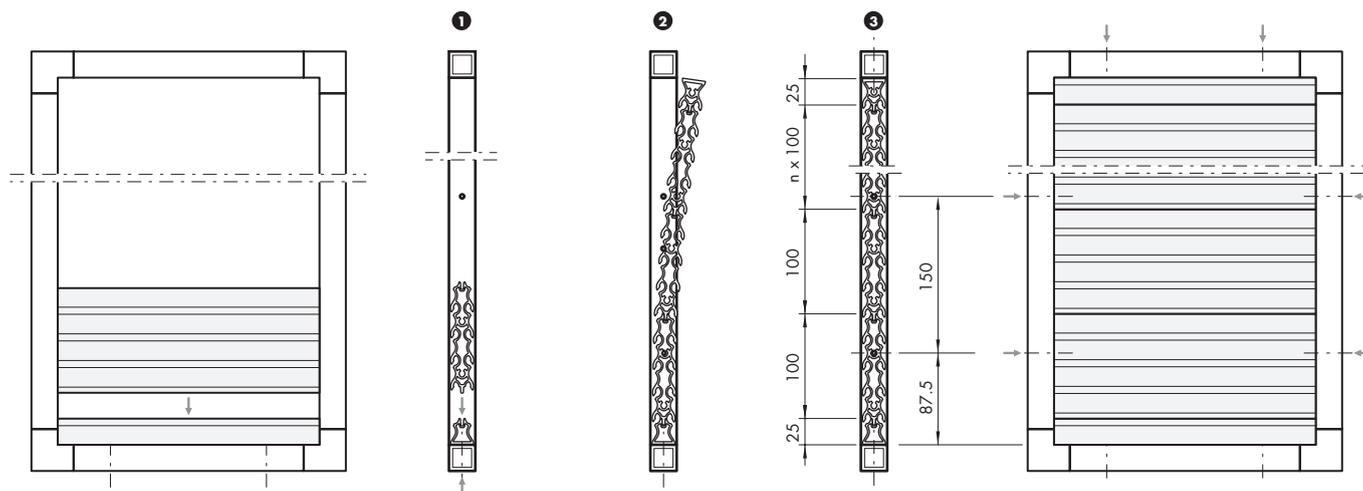
1. Screw on bottom profile through the wooden panel from behind (countersunk screw M5 x 20 mm).
2. Screw MixMix profiles on to the wooden panel (min. 16 mm), working from the bottom upwards.
3. Insert profile into the one below from the top and screw on to wooden panel through grid holes (pan-head screw 3.5 x 15 mm).
4. Screw on adaptation profile, positioned at the top, through the wooden panel from behind (countersunk M5 x 20 mm).
5. Screw bracket frame on to wooden panel from behind (bracket 35 x 35 x 3 mm).



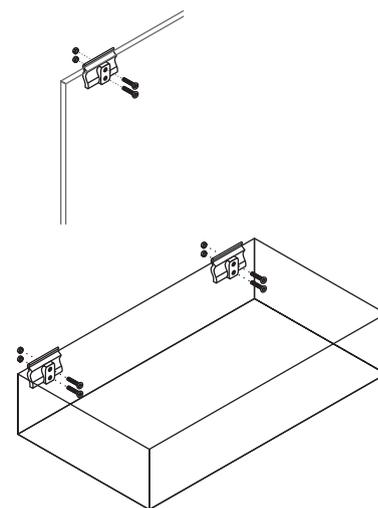
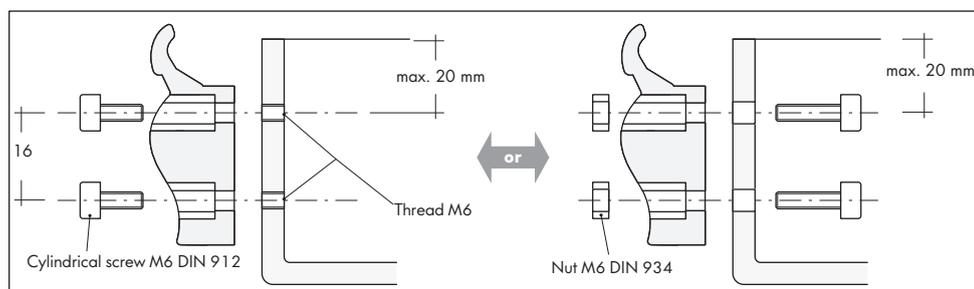
Two-sided (22 mm) assembled between frames (min. 25 mm, e.g. Kado 25).

The following steps must be carried out when assembling a two-sided profile:

1. Start at the bottom with MixMix end profile and screw on through frame from underneath.
2. Fit MixMix two-sided profiles and top and bottom end profiles together and insert between frame.
3. Fix profiles in place through the frame using screws at 100 mm from the edge and at 150 mm intervals (M6 screw only on every other profile).



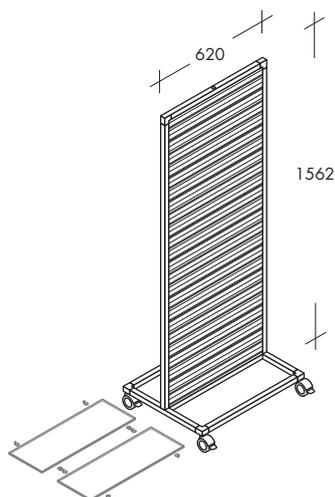
Support adapter 45 mm



MixMix stand - Configuration example

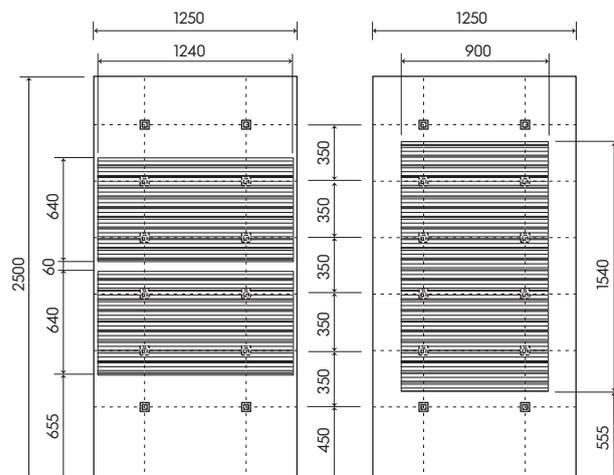
Stand consists of:

- 1 frame Kado 25 with MixMix profile double-sided and 4 castors
- 1 Area 13 sockets for signage holder
- 2 base plates (Drawing no. 375-052)
- 8 shelf carriers



MixMix panel (one-sided)

Panel with aluminium frame, to be attached with fixing set (4 fixing sets per panel are required).



Fixing sets

<p>Mono 55</p>	<p>Mono 20</p>	<p>Push 43</p>	<p>Stripes</p>
<p>Invisible 6 / Invisible 8</p>	<p>Beam</p>	<p>Xero Twin P/L</p>	

Weight loading

! The indicated weight loads are always based on the total weights of the merchandise support and goods. Please observe that the inclination of the merchandise support changes with an increase in load. Different weights on the merchandise supports produce an uneven overall appearance of the goods display. Please note that the weight limit can reduce considerably when used in glass and sheet metal. When fitting to the wall, the max. weight loading and number of fixation points depends on the foundations and selected fixtures. Please follow the manufacturer's recommendations. Please note: at least 3 fixing sets are required per panel. At least 4 fixation points are necessary for a surface greater than 1.5 m². Please also observe the weight loads indicated in our sales documentation.

Max. load

Front arm Ø 8 mm	4 kg
Side hanging frame Ø 15 mm	8 kg
Hook Ø 6 mm	1 kg
Hook Ø 4 mm	1 kg
Looped hook Ø 4 mm	3 kg
Glasses holder Ø 4 mm	1 kg
Shelf profile per 1000 mm	10 kg
Universal support bracket	2 kg

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BEAM

ASSEMBLY AND OPERATING INSTRUCTIONS

Beam

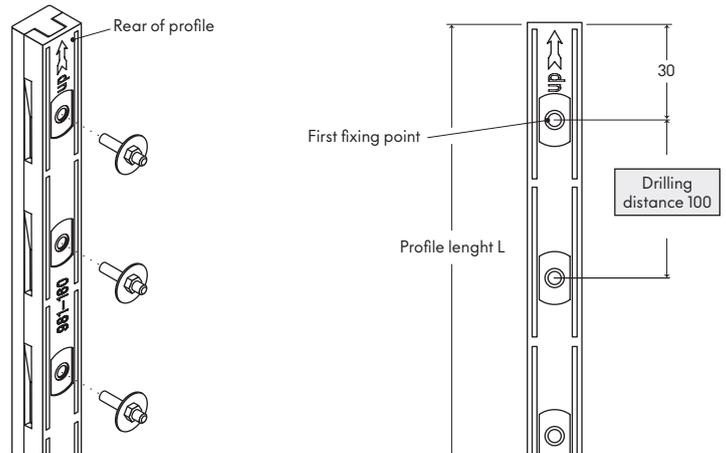
Assembly and operating instructions

Assembly dimensions / Layout

❗ Please observe the indications concerning weight loading and ensure that the substructure of the uprights and furniture as well as their fixings can support the expected loads.
With the installation in glass tempered glass must be used.

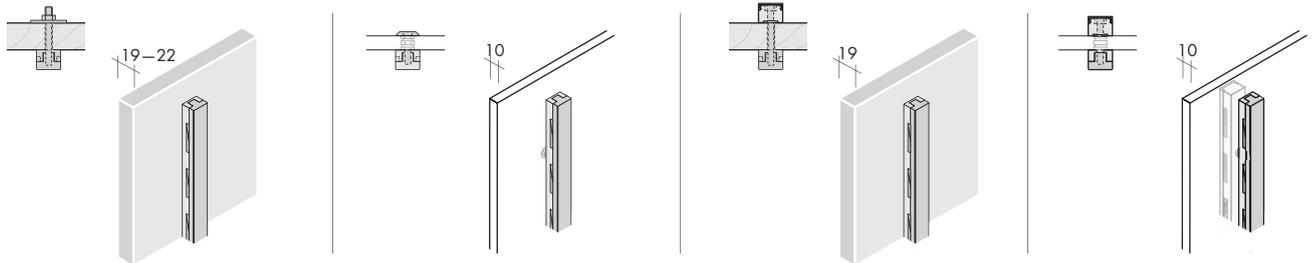
Assembly dimensions Beam profile

The bore or thread space is 100 mm. Use all fastening points (spaced 100 mm) when screw-fastening the profiles. 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. Pay attention that all fastening screws are screwed into the aluminium profile thread at least 7 mm. Use screws with special lengths for assembly to back walls with deviating thicknesses.



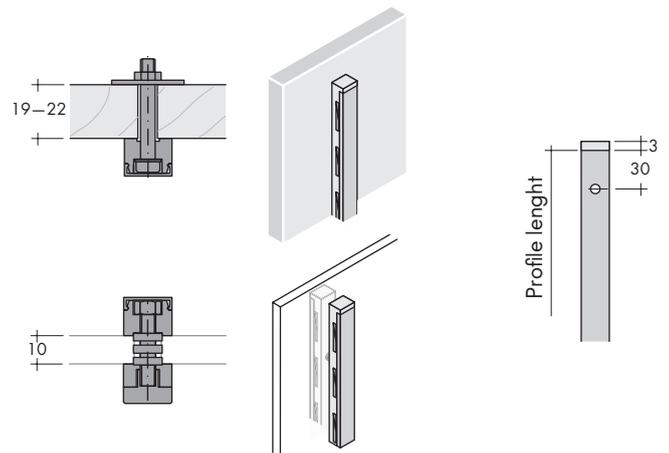
❗ Take care to assemble the profile in the correct direction (upwards). Beam profiles can be cut to size.
Important: Always shorten profiles from the bottom up.

Assembly examples Beam profile



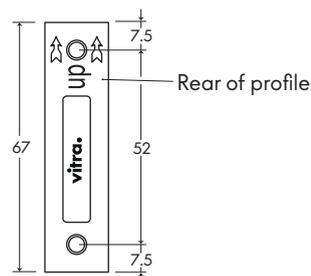
Beam profiles for gondolas

Gondola profiles are available in length of 1200 mm for use in centre-floor furniture. These have a semi-transparent cover on the upper profile end.



Assembly dimensions Beam 67

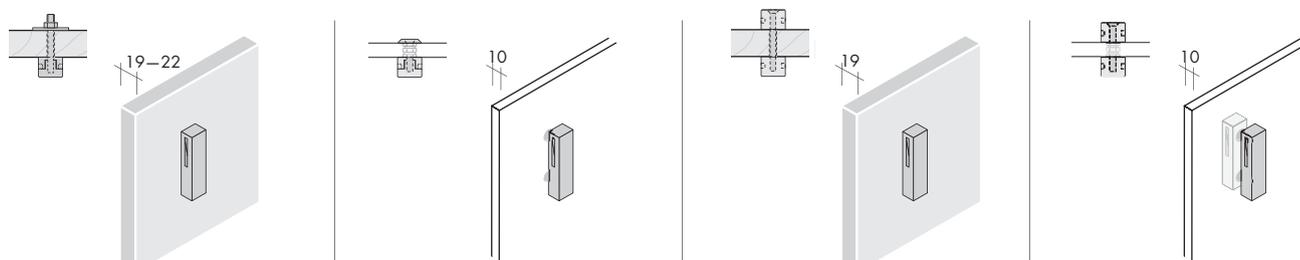
❗ Take care to assemble the profile in the correct direction (upwards).



Beam

Assembly and operating instructions

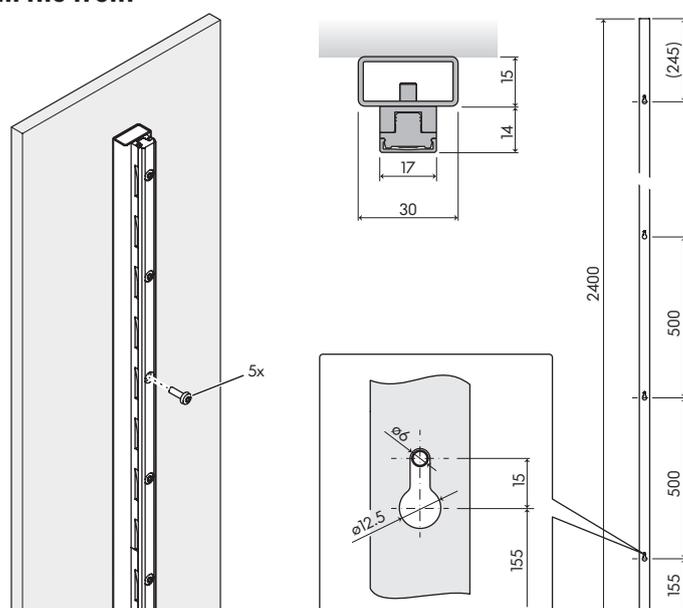
Assembly examples Beam 67



Assembly dimensions Beam profile for attachment from the front

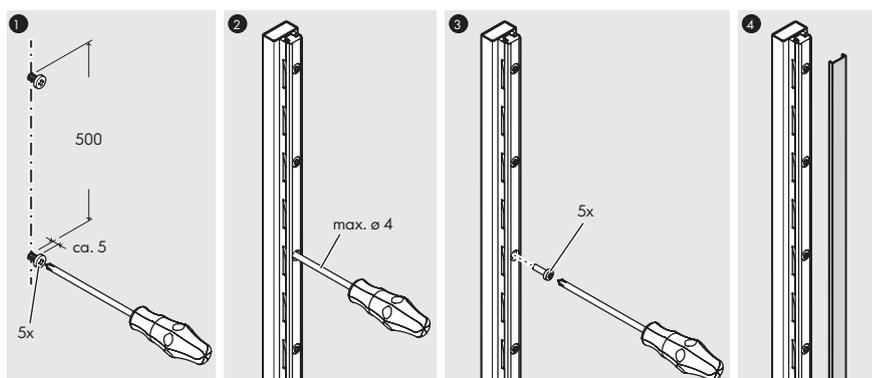
The bore or thread space is 500 mm. Use all fastening points (spaced 500 mm) when screw-fastening the profiles. The first point is located 155 mm above the lower profile end. Use screws with special lengths for assembly to back walls with varying thicknesses; recommended: panhead screws with head diameter max. 12 mm. Pay attention that the enclosed screws (5 pcs.) are screwed into the aluminium profile after wall mounting.

- ❗ Take care to assemble the profile in the correct direction (upwards). Beam profiles can be cut to size. Important: Always shorten profiles from the bottom up.



Assembly instructions for the Beam profile for attachment from the front

1. Drill 5 holes at **500 mm** intervals. Tighten mounting screws and leave them protruding by approx. **5 mm** (note: to select the right fixtures, see below "Front assembly on different surfaces").
2. Hook the Beam profile over the screws. Tighten the screws through the holes in the profile. The diameter of the tool must not exceed **4 mm**.
3. Screw the supplied screws (5 pcs.) into the profile.
4. Fit the profile cover.



Front assembly on different surfaces

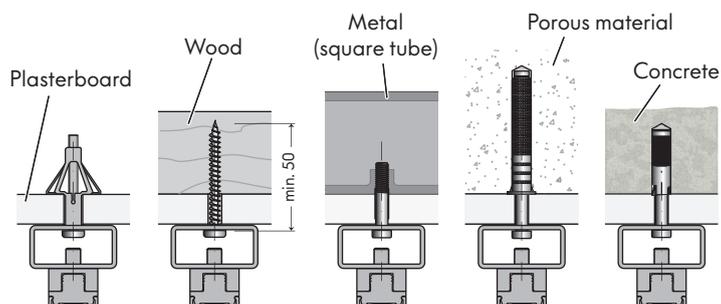
The Beam profile for attachment from the front can be mounted on different wall types. The max. weight load of the profile depends on the nature of the wall, on the number of fixation points as well as on the fixation material used.

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

Please observe the instructions supplied by the dowel manufacturer.

For mounting on gypsum, the following dowels are recommended (manufacturer Hilti):

- Hollow toggle plug HTB-S M5x60
- Hollow plug HHD-S M5/12x52



Beam

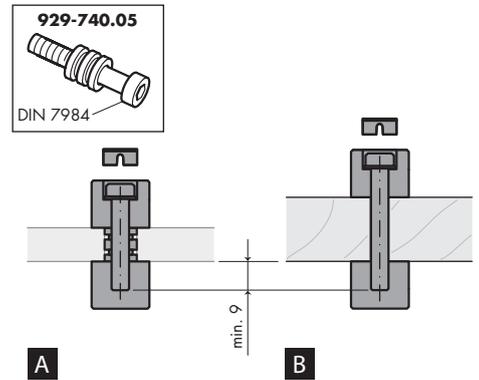
Assembly and operating instructions

Double-sided assembly

Beam profiles can be fixed to glass (A) (10 mm) on both sides with invisible screw connections. The fixing set for glass panels 929-740.05 is to be used (drill holes in glass panel \varnothing 10 mm).

Double-sided screw connections are also possible on 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, DIN7984).

Beam 67 is supplied with standard screws for 19 mm wood, or 10 mm glass. Please be ensured that the fixation bolts with min. 9 mm are screwed into the profile.



Beam profiles for rear assembly on glass or wooden panels

- on glass panel (A):

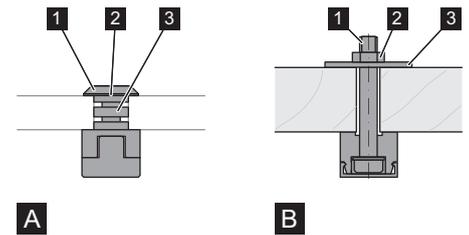
Beam profiles are fixed on to glass panels (10 mm) with countersunk screws (1), washers (2) and plastic sleeves (3).

Drill holes of \varnothing 10 mm are to be provided for in the panel.

- on wooden panels (B):

Beam profiles are fixed on to the panel (19-22 mm) with set screws (1), nuts (2) (M5) and washers (3).

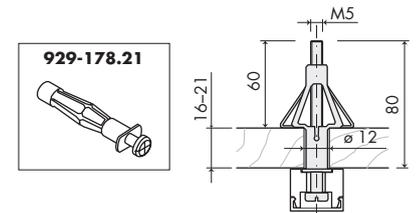
Drill holes of \varnothing 6 mm are to be provided for in the panel.



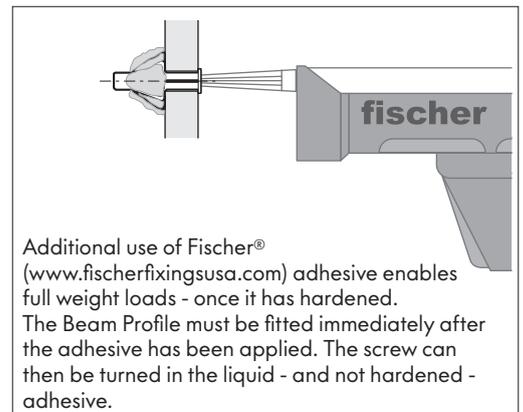
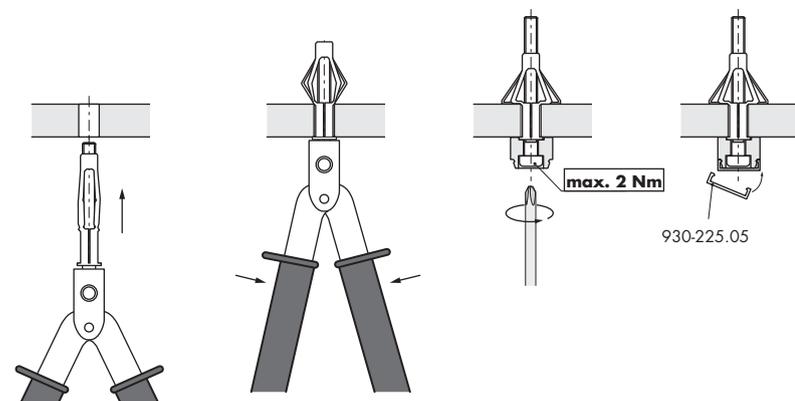
Front attachment to cavity walls

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

- Drill \varnothing 12 mm hole.
- Insert cavity dowel (fixing set 929-178.21) using pliers (Recommendation: Cavity pliers HM z1 from Fischer®) and expand.
- Unscrew the pre-assembled screw.
- Add Beam profile and secure with aforementioned screw.
- Assembly has been correctly completed when the screw has been tightened up as far as possible (2 Nm).



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



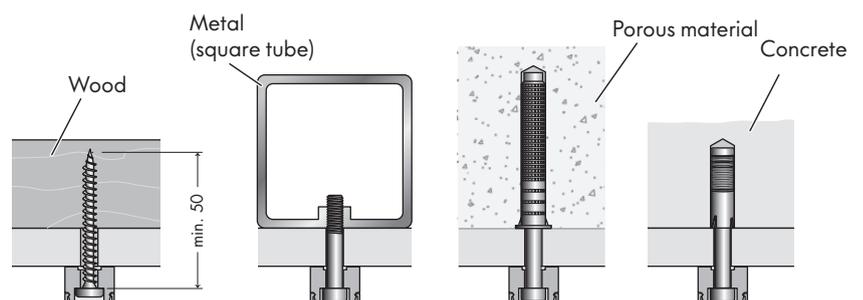
Front assembly on other surfaces

The Beam profile can be mounted on different wall types.

The max. weight load of Beam depends on the nature of the wall as well as on the fixation material used.

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

Please observe the instructions supplied by the dowel manufacturer.



Beam

Assembly and operating instructions

Assembly of cover profile

Insert one side of the cover profile into the groove of the Beam profile and snap the other side into place through pressure or with light blows from a large rubber hammer.
Apply blows evenly along the cover profile as otherwise it could be damaged.

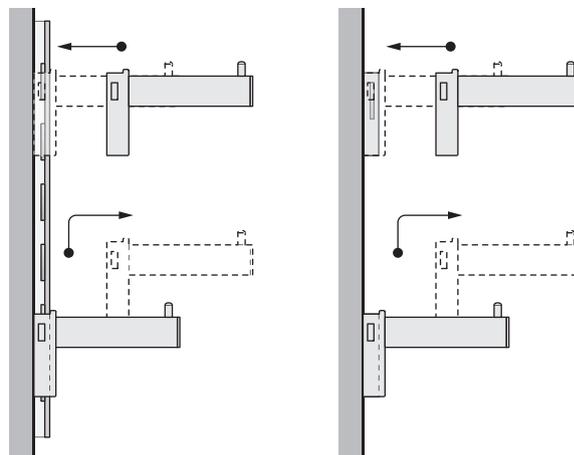


- ❗ The cover profile is to be secured in place with adhesive (silicone).
Attention: Once a cover profile has been assembled, it cannot be removed without being damaged.

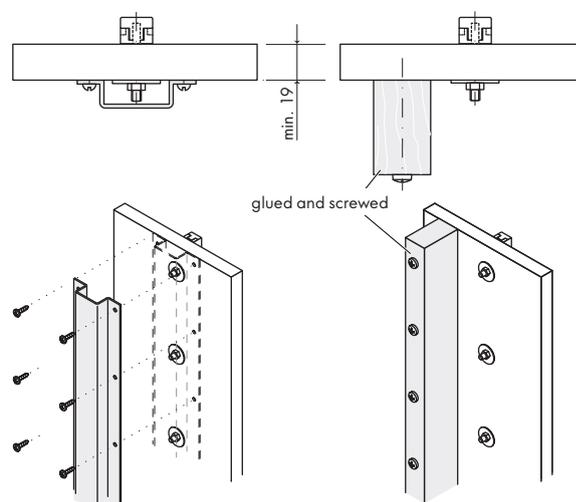
Instructions of use/Care

Beam accessories can be vertically adjusted at a pitch of 50 mm.

- ❗ Please observe that the accessories must be relieved of any load when adjusting the height.
It is thus recommended that the accessories are moved with two hands.

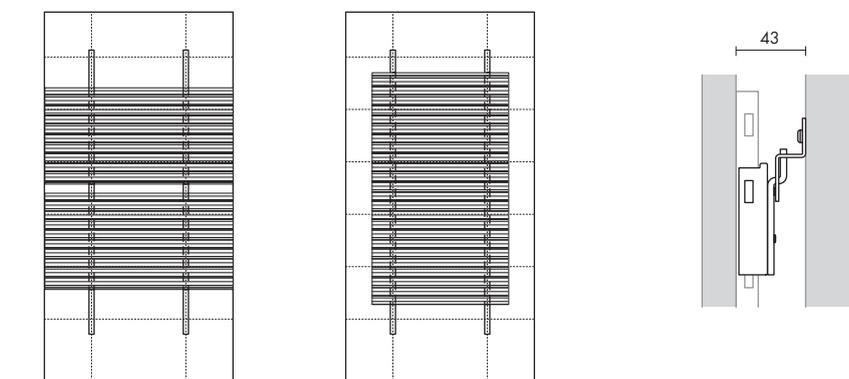
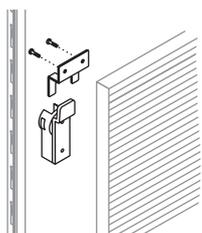


Single-sided and double-sided Beam profiles can be screwed on wooden panels (19–22 mm), glass panels (10 mm) or plexiglass panels. Panels and sub-structures must be toughened against bowing. Wooden ledges or angle sections are suitable for this purpose.



Fixing set for Beam profiles

To be screwed to the back of wooden panels.



Beam

Assembly and operating instructions

Weight loading

- ❗ The max. weight loading depends on the nature of the wall, on the number of fixation points as well as on the fixation material used. At least 10 fixation points are necessary per metre of Beam profile.
 The indicated weight loads for the Beam accessories are always based on the total weights of the merchandise support and goods.
 Please observe that the inclination of the merchandise support changes with an increase in load. Different weights on the merchandise supports produce an uneven overall appearance of the goods display.
 Please also observe the weight loads indicated in our sales documentation.

Max. load

Profile	per 1000 mm	75 kg
Profile Beam 67		20 kg
Front arm Ø 12 mm		10 kg
Front arm Ø 25 mm		20 kg
Front arm 30 x 15 mm		20 kg
Front arm 20 x 10 mm		10 kg
Support bracket Ø 25 mm for wooden or glass shelf		20 kg
Support bracket 25 x 4 mm for wooden or glass shelf		20 kg
Hanging rail 30 x 15 mm, 600 mm T arm		10 kg
Hanging rail Ø 15 mm, 390 mm T arm		10 kg
Hanging rail Ø 25 mm, 600 mm T arm		20 kg
Hat bar		3 kg
Hook rail for ties, belts etc.		10 kg
Clamping bracket for glass shelf	per bracket	15 kg
Bracket for hanging rail 30 x 15 mm, oval	per bracket	20 kg
Bracket 20 x 4 mm for hanging rail	per bracket	10 kg
Bracket 20 x 4 mm for wooden shelf	per bracket	10 kg
Bracket 25 x 5 mm for hanging rail 30 x 15 mm	per bracket	20 kg
Bracket 30 x 5 mm for wooden or glass shelf	per bracket	20 kg
Bracket Ø 12 mm for hanging rail Ø 15 mm	per bracket	10 kg
Bracket Ø 12 mm for wooden or glass shelf	per bracket	10 kg
Bracket Ø 25 mm for wooden or glass shelf	per bracket	20 kg
Bracket Ø 25 mm for hanging rail Ø 25 mm	per bracket	20 kg
Bracket Ø 25 mm for hanging rail Ø 25 mm and shelf	per bracket	20 kg
Universal support bracket	per bracket	20 kg
Fixing set		20 kg

vitro.

XERO 4

ASSEMBLY AND OPERATING INSTRUCTIONS

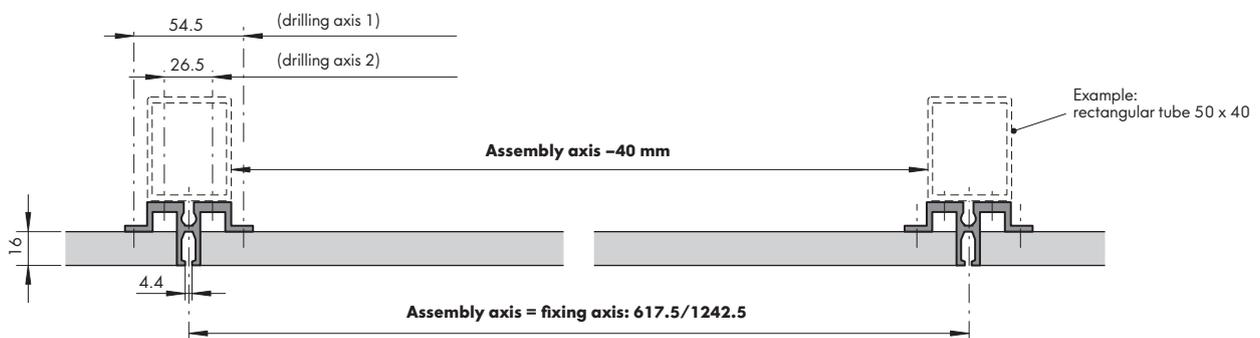
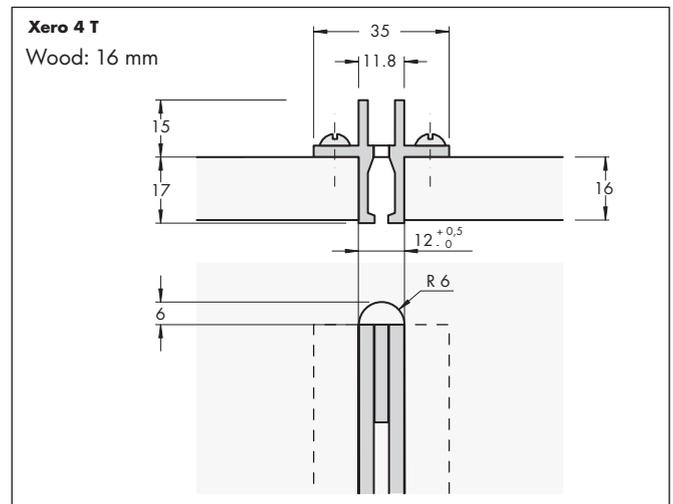
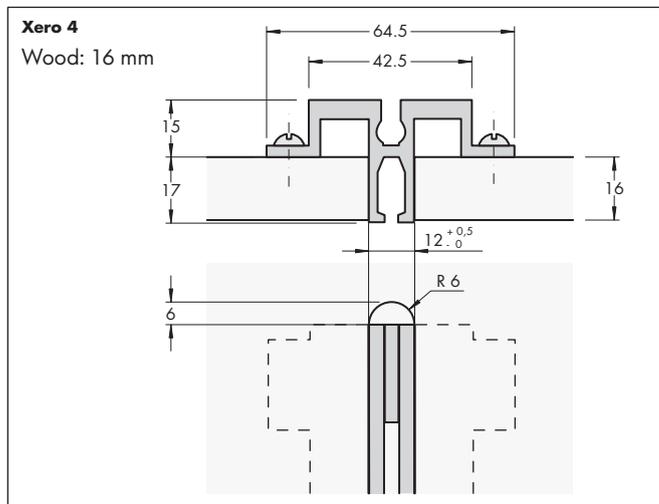
Assembly dimensions / Layout

Xero Aluminium extrusions can be hung on various bases on the wall and in mid-floor.
All ranges of accessories in chrome and silk can be used.

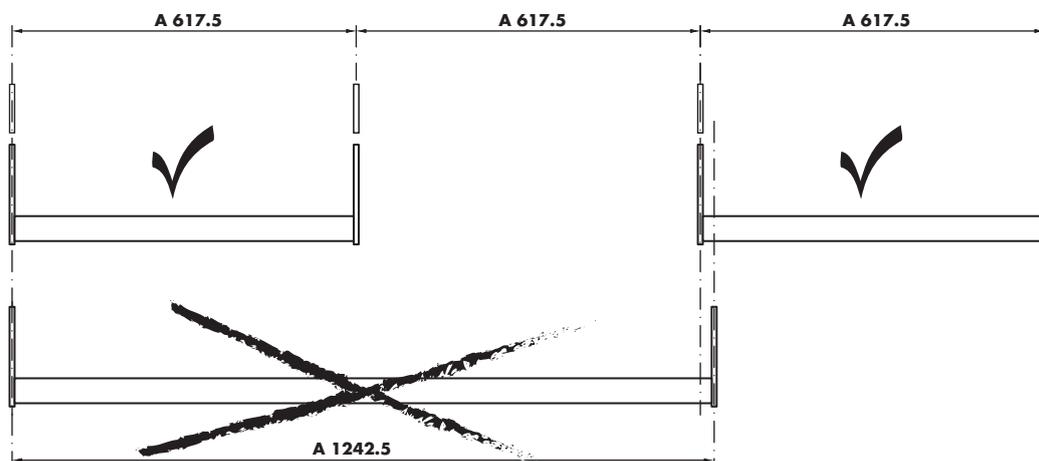
! Powder-coated accessories can not be used.

! Please observe the indications concerning weight loading and ensure that the substructure of the wall units/furniture and their fixtures can support the expected loads.
With free-standing furniture, ensure that there is sufficient stability even with the intended merchandise supports.

Assembly dimensions

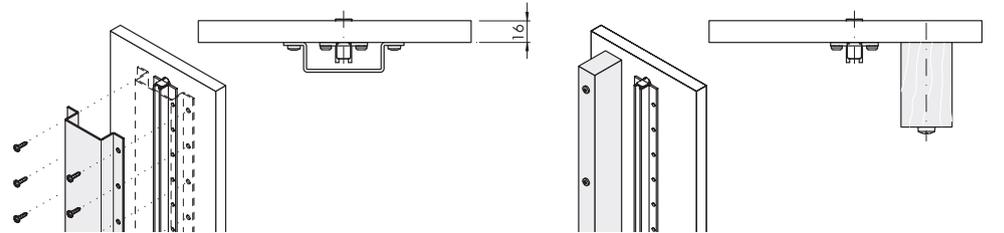


! Please note the different assembly axes. With Xero profiles, accessories cannot be used over two axes.

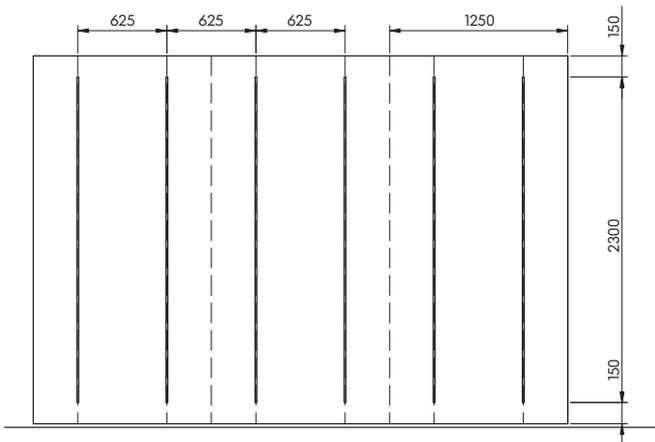


Layout

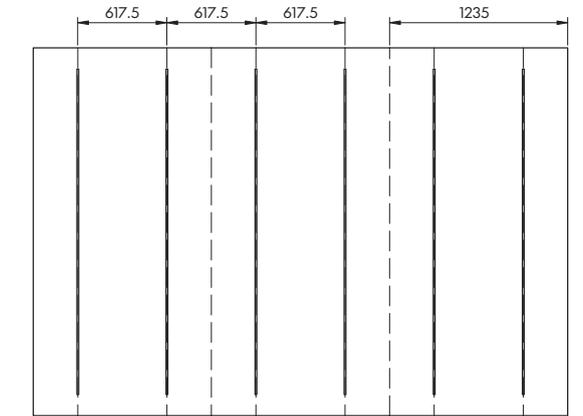
Panels and sub-structures must be toughened against bowing. Wooden ledges or angle sections are suitable for this purpose.



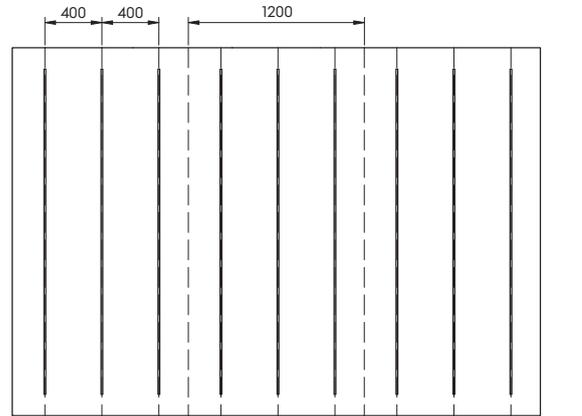
Recommendation for grid arrangement



Xero 4 (A 625 mm) Accessories Xero 4 (ø 25/L. 1245 mm)

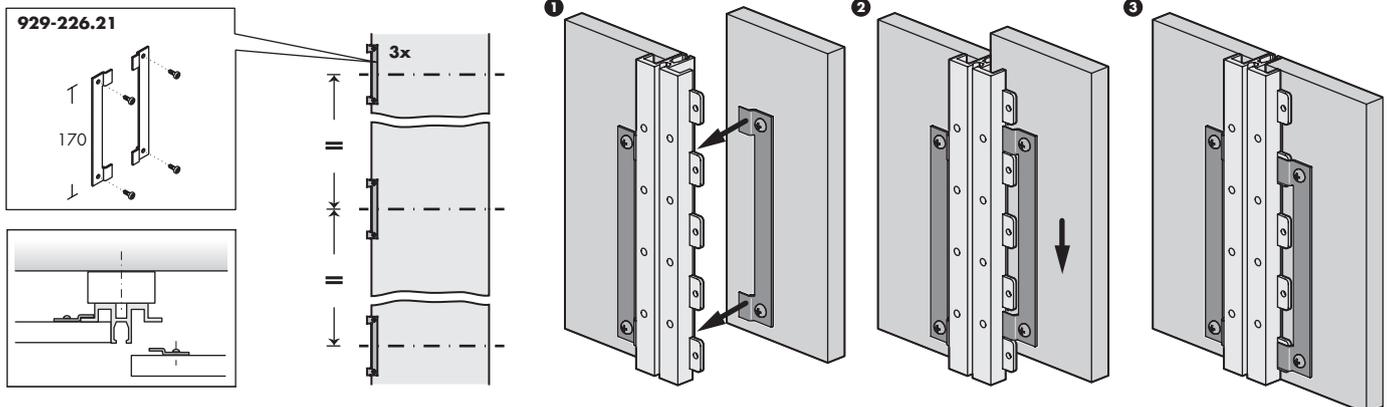


Xero 4 (A 617.5 mm) + Accessories + Accessories Xero 4 (L. 1230 mm)



Xero 4 (A 400 mm) + Accessories Xero 4 (ø 12/L. 795 mm)

Inserting the panels into Xero 4 profile

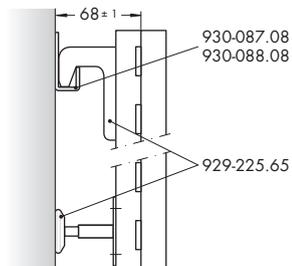
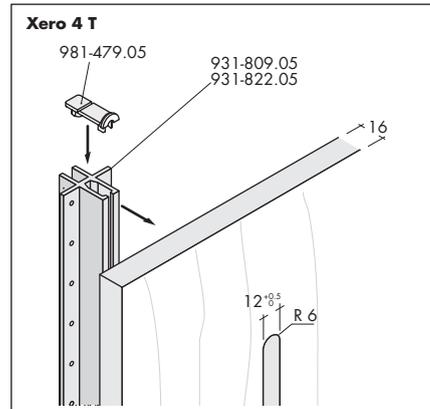
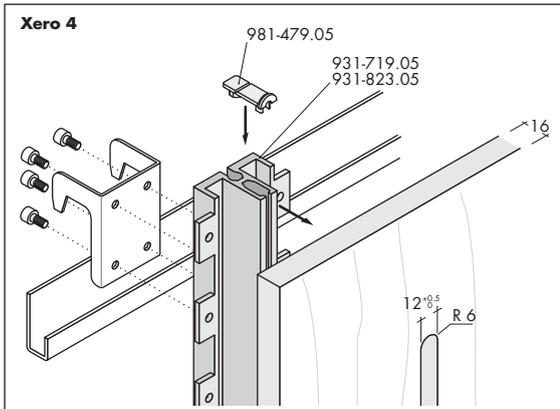


Assembly instructions

! The aluminium profile must be fixed to the panel.

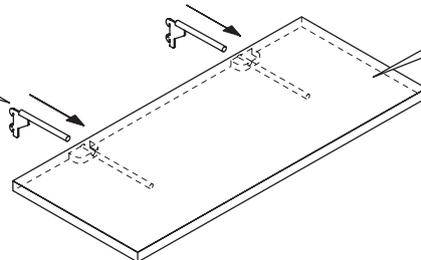
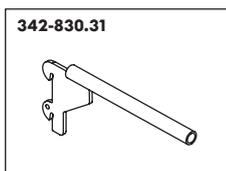
Assembly on wooden panels

Screw the aluminium profile Xero 4 or Xero 4 T on to the panel from the rear. Fit fixing sets to the profile. Fix the profile end caps above and down to the profile, before the profile is installed to the panel.



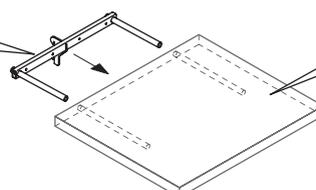
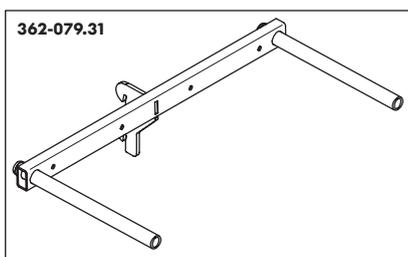
! Please note that the fixing set 929-225.65 cannot be attached to Xero 4 T profiles. Panels with these profiles are to be attached to the wall e.g. with wedge gibs. Please observe the indications concerning weight loading and ensure that the substructure of the wall units and their fixtures can support the expected loads.

Shelf dimension for bracket 342-830.31



! Production drawings of glass wooden are available for downloading on www.vitra.com or can be received on request. Drawing no. 247-734

Shelf dimension for single bracket 362-079.31

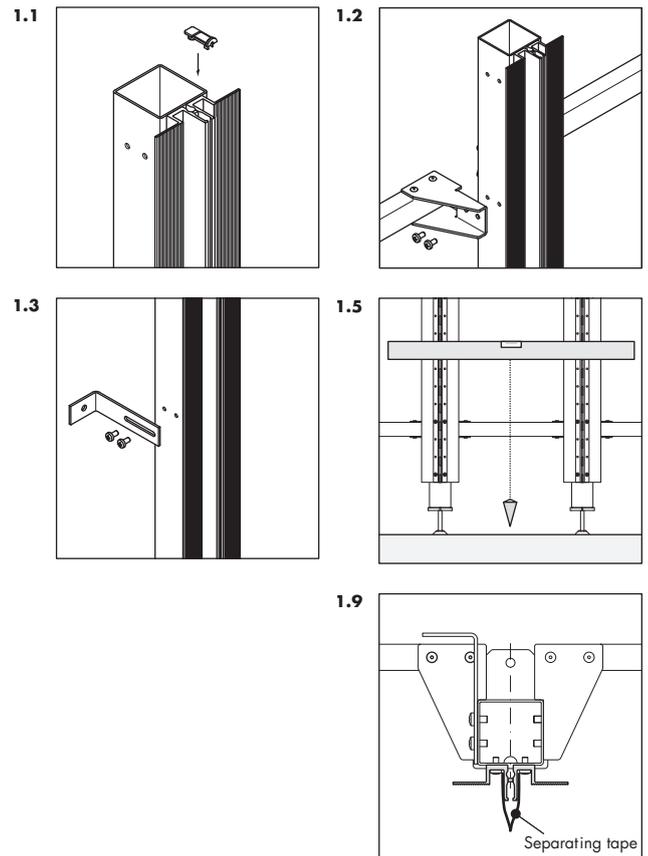
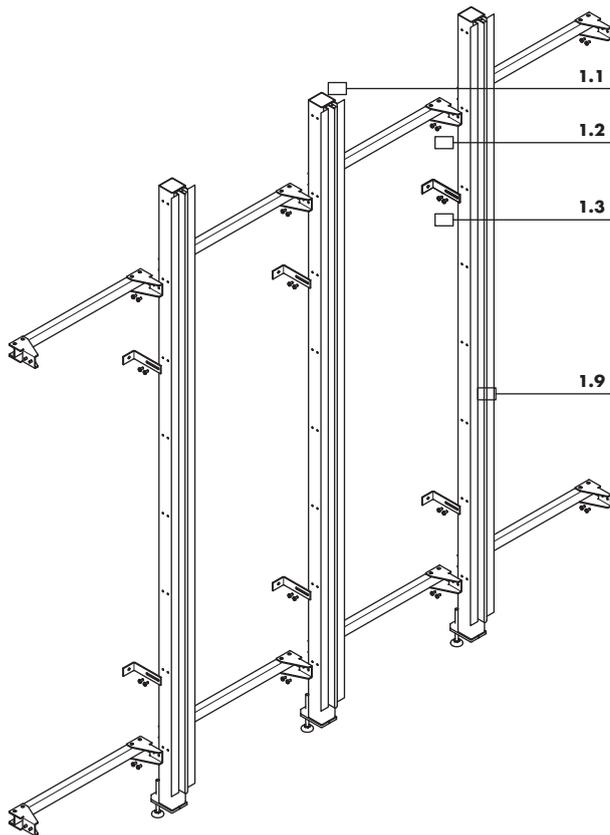


! Production drawings of glass wooden are available for downloading on www.vitra.com or can be received on request. Drawing no. 247-138

Assembly in plasterboard

! Please observe the indications concerning weight loading and ensure that the substructure of the wall units/furniture and their fixtures can support the expected loads.

1. Assembling wall upright

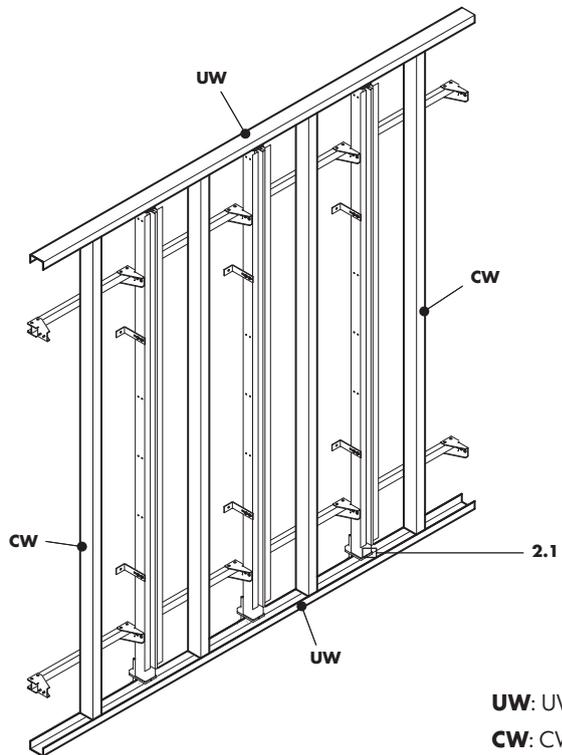


! Layout information can be found on the drawing 320-143.

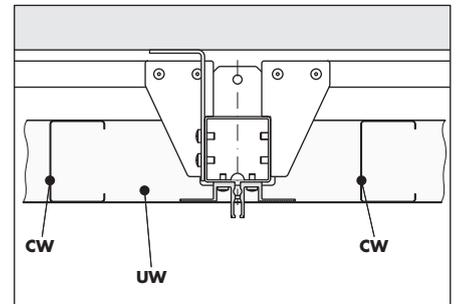
- 1.1 Insert profile end caps 981-479.05 on top and on bottom
- 1.2 The cross-connections are fixed to the side of the system uprights using two M6 x 12 thread grooving screws → do not overtighten screws!
- 1.3 The bracket of the wall attachment kit is attached to the side of the system uprights using two M6 x 12 thread grooving screws → do not overtighten screws! At least 2 brackets are required per upright - the number depends on the condition of the wall.
- 1.4 Assemble the uprights into single unit.
- 1.5 Set up unit, and ensure that it is perfectly aligned in height and that it is perpendicular.
- 1.6 Mark mounting points.
- 1.7 Drill holes in wall and insert dowels.
- 1.8 Reposition wall unit and screw into place. Proceed as described in point 1.5.
- 1.9 Important: Wind separating tape smoothly around the profile (we recommend: Knauf Trenn-fix 65)

! The wall uprights must be screwed to the wall with at least 2 Ø 6 mm screws. The wall and its fixtures must be capable of taking a min. fraction weight of 1.6 kN. Please observe the instructions supplied by the dowel manufacturer.

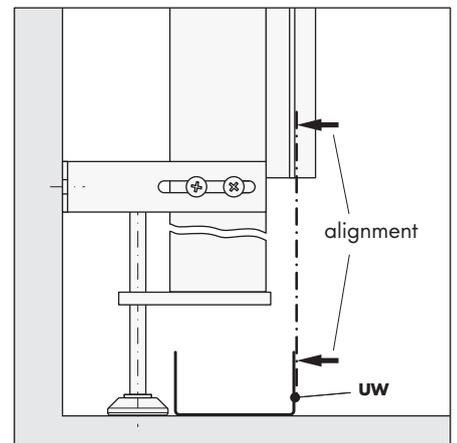
2. Assembling metal frame



UW: UWprofile UW 75 x 40 mm
CW: CWprofile CW 75 x 50 mm



2.1



2.1 Set-up metal frame (UW- and CW-profiles): check that profiles are aligned with UW profile. The structure of the wall unit is designed for metal frames with a profile width of 75 mm

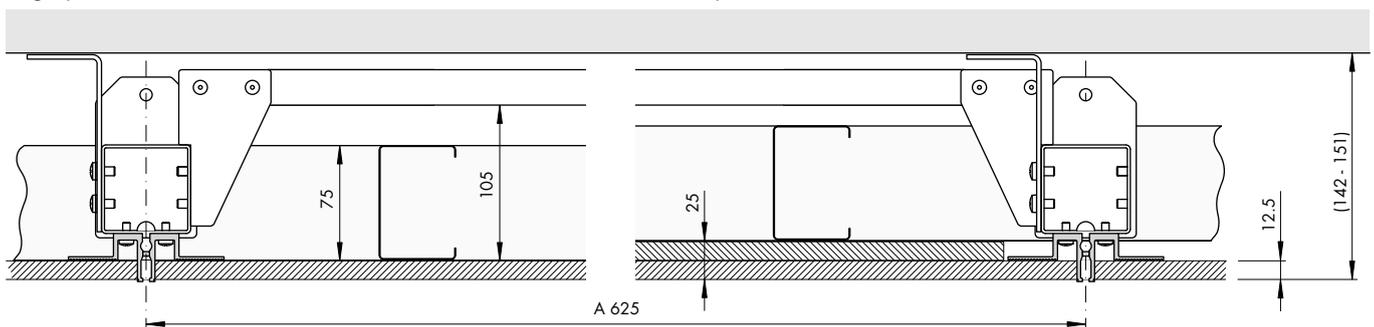
Dimensions: plasterboard

- Upright axis: 625 mm
- Depth of panel structure: 142-151 mm
- Layout information can be found on the drawing 320-143

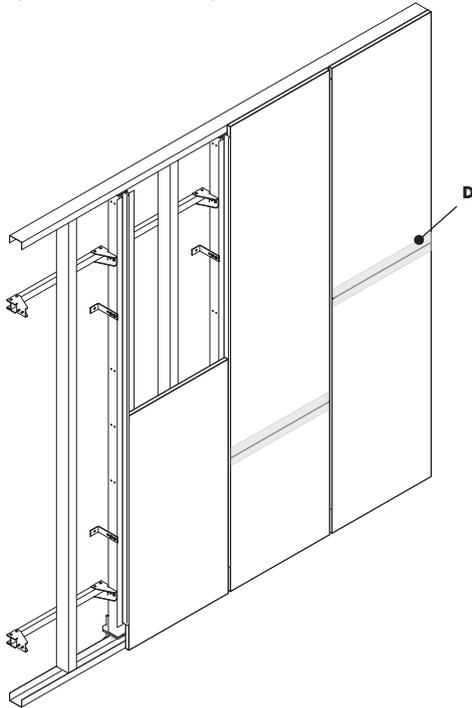
Please observe the indications concerning weight loading and ensure that the substructure of the wall units and their fixtures can support the expected loads

Single plasterboard

Double plasterboard



3. Covering and smoothing



3.1 Screw plasterboards to profiles using dry wall screws **A** (e.g. Ø 3.9 x 19 mm). Also screw plasterboards to slotted rails - dry wall screws with drill bits **B** are necessary (e.g. Ø 3.5 x 19 mm).

Recommendations:

- cover joints **C** with reinforcing tape **D**.
- add edge safety profiles if necessary.

Final paintwork (finishing)

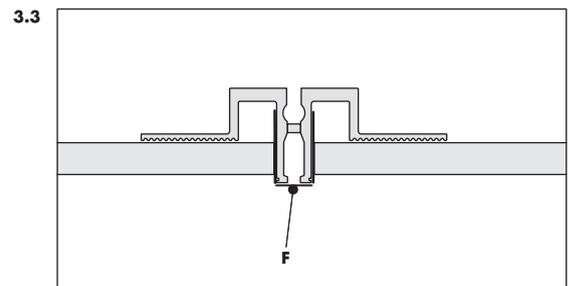
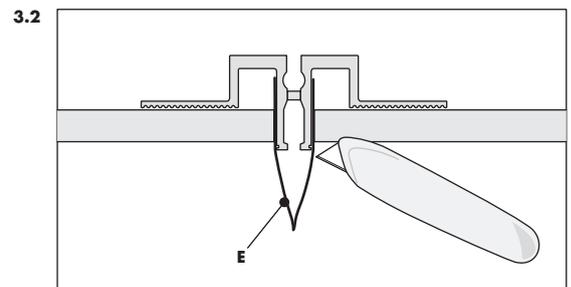
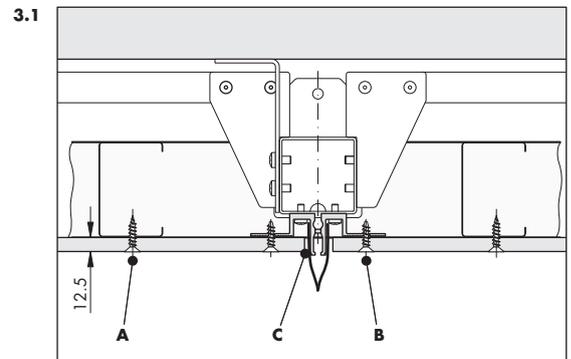
3.2 Cut-off protruding strips of separating tape **E**.

3.3 Recommendation:

Apply a finely-structured glass fibre yarn mat to avoid visible cracks.

Cover visible surface of the profile **F** with easily removable masking tape (no residue) before beginning paintwork.

3.4 Final paintwork or other finishes.



Weight loading

- ⓘ Please observe the permissible weight loading of the accessories used.
- The indicated weight loads are always based on the total weights of the merchandise support and goods.
- Please observe that max. weight loading decreases as the merchandise support increases in length.
- Please observe that the inclination of the merchandise support changes with an increase in load. Different weights on the merchandise supports produce an uneven overall appearance of the goods display.
- The max. weight loading of Xero 4 depends on the nature of the wall, on the number of fixation points as well as on the fixation material used.
- All fixation points are to be used with a maximum weight load.
- Please also observe the weight loads indicated in our sales documentation.

Max. load

Profile	per 1000 mm	100 kg
Front arms Ø 25 mm		25 kg
Front arms 30 x 15 mm		20 kg
Front arms Ø 12 mm		10 kg
Front arms 4 mm		10 kg
Hanging rail 600 mm T arm		20 kg
Hanging rail 390 mm T arm		10 kg
Bracket for wooden shelf	per bracket	15 kg
Bracket for hanging rail Ø 25 mm	per bracket	20 kg
Bracket for hanging rail Ø 25 mm and shelf	per bracket	20 kg
Bracket for hanging rail 30 x 15 mm	per bracket	20 kg
Bracket for hanging rail 30 x 15 mm and shelf	per bracket	20 kg
Bracket for hanging rail 20 x 10 mm	per bracket	10 kg
Bracket for hanging rail Ø 15 mm	per bracket	10 kg
Bracket for glass shelf	per bracket	20 kg
Bracket for wooden shelf	per bracket	20 kg
Clamp bracket for glass shelf		15 kg
Shelf support bracket		20 kg
Hook rail for ties, belts etc.		10 kg

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XERO 8

ASSEMBLY AND OPERATING INSTRUCTIONS

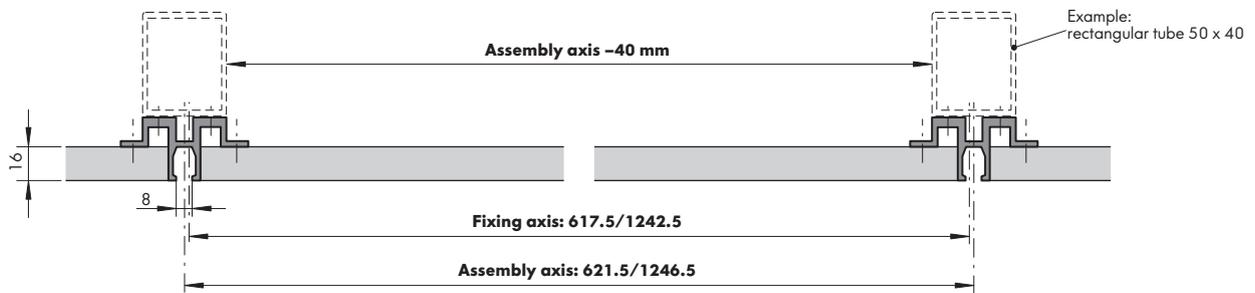
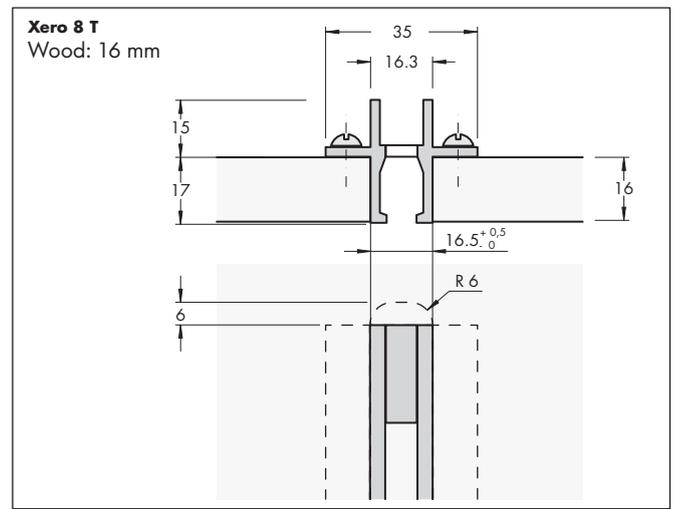
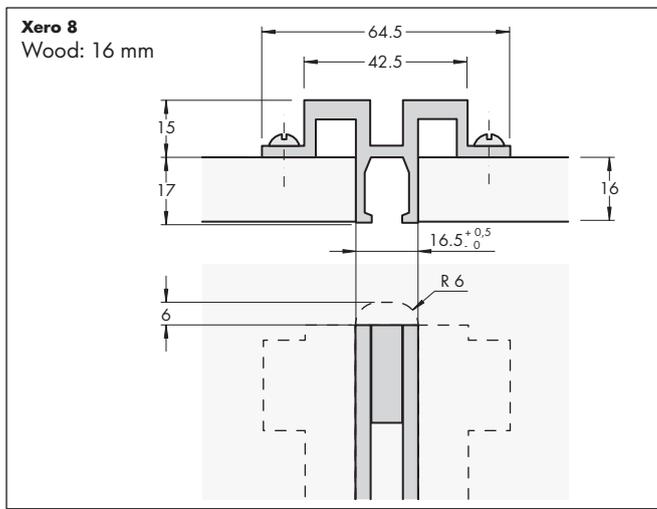
Assembly dimensions / Layout

Xero Aluminium extrusions can be hung on various bases on the wall and in mid-floor.
All ranges of accessories in chrome and silk can be used.

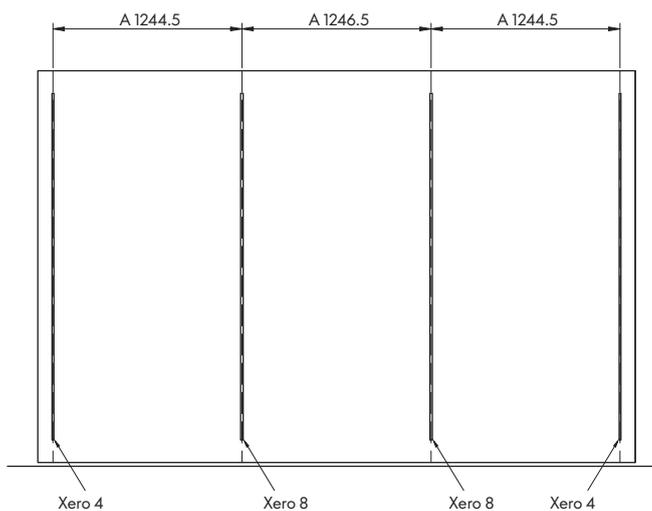
! Powder-coated accessories can not be used.

! Please observe the indications concerning weight loading and ensure that the substructure of the wall units/furniture and their fixtures can support the expected loads.
With free-standing furniture, ensure that there is sufficient stability even with the intended merchandise supports.

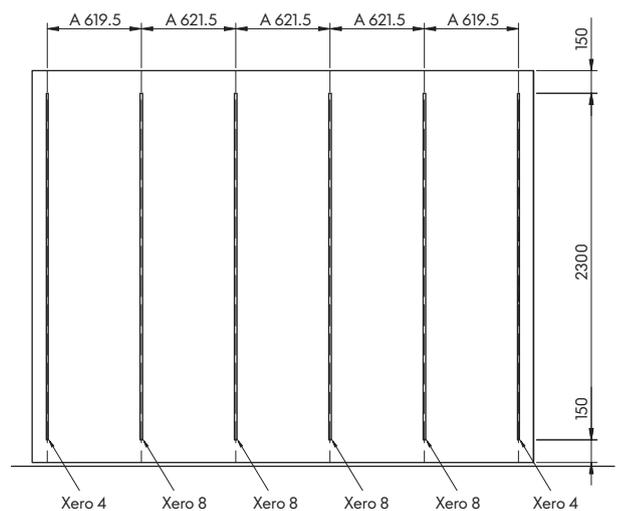
Assembly dimensions



Recommendation for grid arrangement



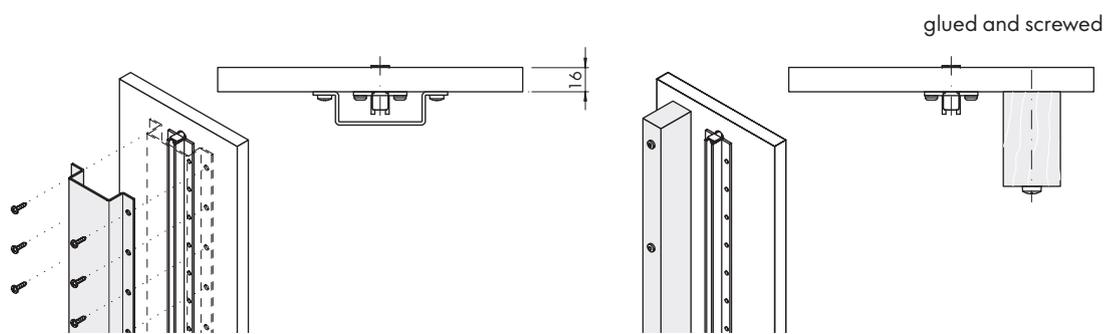
Accessories A=1242.5 mm



Accessories A=617.5 mm

Layout

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



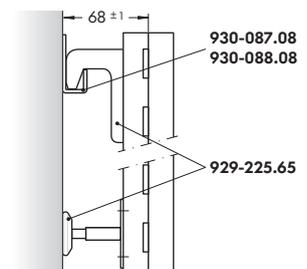
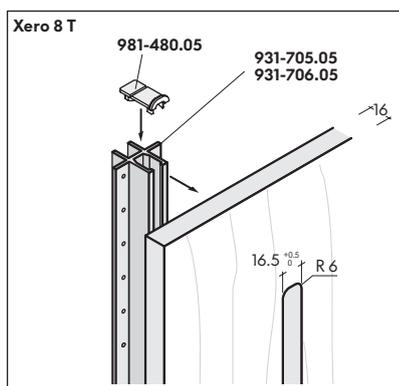
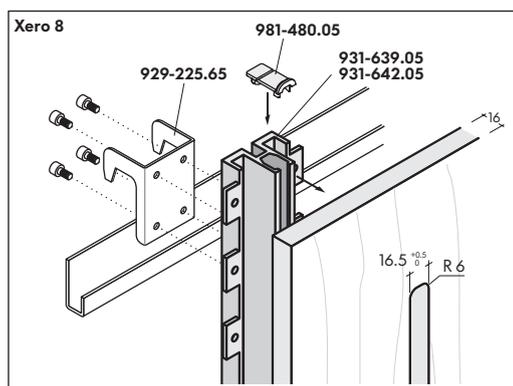
Assembly instructions

The aluminium profile must be fixed to the panel.

Assembly on wooden panels

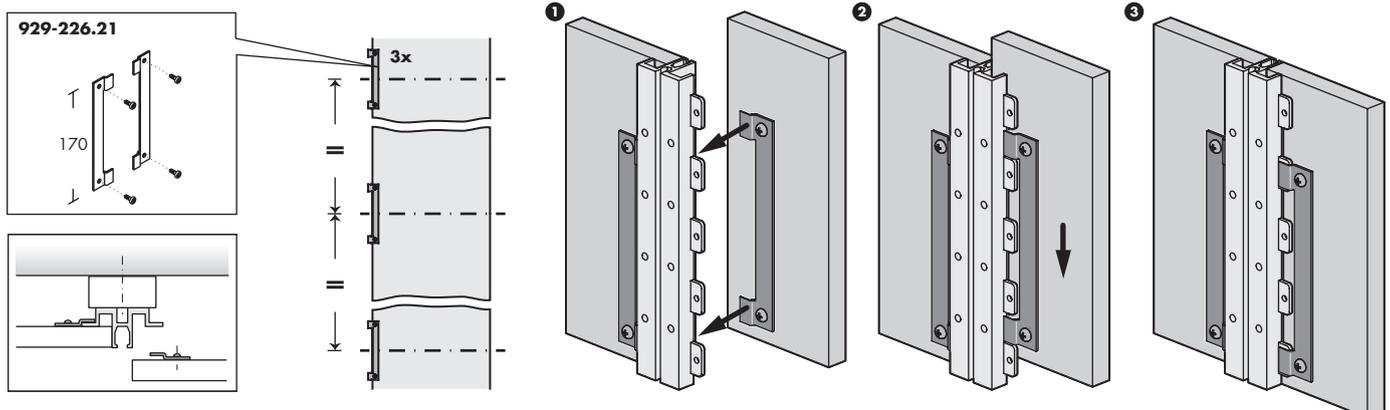
Screw the profile Xero 8 or Xero 8 T on to the panel from the rear. Fit fixing sets to the profile. Fix the profile end caps above and down to the profile, before the profile is installed to the panel.

! Please observe the indications concerning weight loading and ensure that the substructure of the wall units and their fixtures can support the expected loads.



! Please note that the fixing set 929-225 cannot be attached to Xero 8 T profiles. Panels with these profiles are to be attached to the wall e.g. with wedge gibs.

Inserting the panels into Xero 8 profile



Weight loading

- !** Please observe the permissible weight loading of the accessories used.
 The indicated weight loads are always based on the total weights of the merchandise support and goods.
 Please observe that max. weight loading decreases as the merchandise support increases in length.
 Please observe that the inclination of the merchandise support changes with an increase in load. Different weights on the merchandise supports produce an uneven overall appearance of the goods display.
 The max. weight loading of Xero 8 depends on the nature of the wall, on the number of fixation points as well as on the fixation material used.
 All fixation points are to be used with a maximum weight load.
 Please also observe the weight loads indicated in our sales documentation.

Max. load

Profile	per 1000 mm	100 kg
Bracket for wooden shelf	per bracket	40 kg
Side hanging frame		40 kg
Oval back bar 30 x 15 mm		40 kg
Shelf frame for glass shelf		40 kg
Side hanging frame 30 x 15 mm		50 kg
Side hanging frame Ø 30 mm		50 kg
Front arms 30 x 15 mm		20 kg
Front arms Ø 25 mm		20 kg
Front arms Ø 15 mm		20 kg
Hooks Ø 7.5 mm		2 kg
Hooks Ø 6 mm		2 kg
Back bar for glass shelf		30 kg
Clamp bracket for glass shelf	per bracket	30 kg

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XERO TWIN P/L

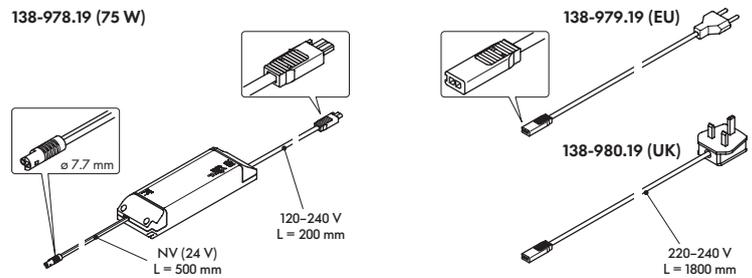
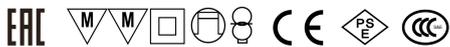
ASSEMBLY AND OPERATING INSTRUCTIONS

TECHNICAL DATA SHEET XERO TWIN P/L

Converter 24 V for electrified profile

Converter 75 W with input voltage 120–240 V / mains frequency: 50–60 Hz / electronic protection against overheating and short-circuit.

- Mains connection with connector for mains cable
- Nominal voltage = 24 V / SELV
- Safety class 2

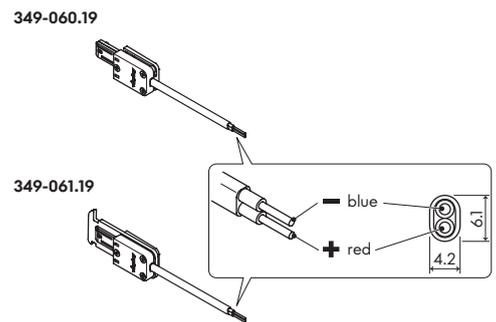


Single power adapter 24 V

Single power adapters can be used with the Xero L P/L and Xero Twin P/L systems. Low voltage lighting may only be connected by trained personnel.

If multiple adapters and appliances are used, their total power consumption may not exceed the specified nominal current or fuse rating. The permissible nominal voltage and nominal current are also limited according to the adapters used (see printed label and safety information).

Permissible nominal current max. 4 A.



Product safety

Xero Twin P/L electrification in detail: conductor rail with power supply, integrated into system support profile.

Correct functioning and safety are guaranteed when properly used. No liability is accepted in event of improper use. Product safety is based exclusively on the use of original Xero Twin P/L accessories from Vitra.

No alterations may be made, for safety reasons; the only exception being the shortening of profiles from the upper side.

The safety instructions of the assembly instructions must be followed as well as the instructions on the labels of the individual parts.

The indicated nominal current (A) may not be exceeded.

In event of improper use or cleaning with liquids, a risk of electric shock exists due to possibly exposed live parts. Always disconnect from power before cleaning or servicing.

If rails or adapters exhibit visible signs of damage, disconnect them immediately and inform your service technician.

⚠ Only use Xero Twin P/L system accessories! Do not use any other parts.

The user is responsible for ensuring that any connected equipment is electrically, mechanically and thermally compatible with the conductor rail.

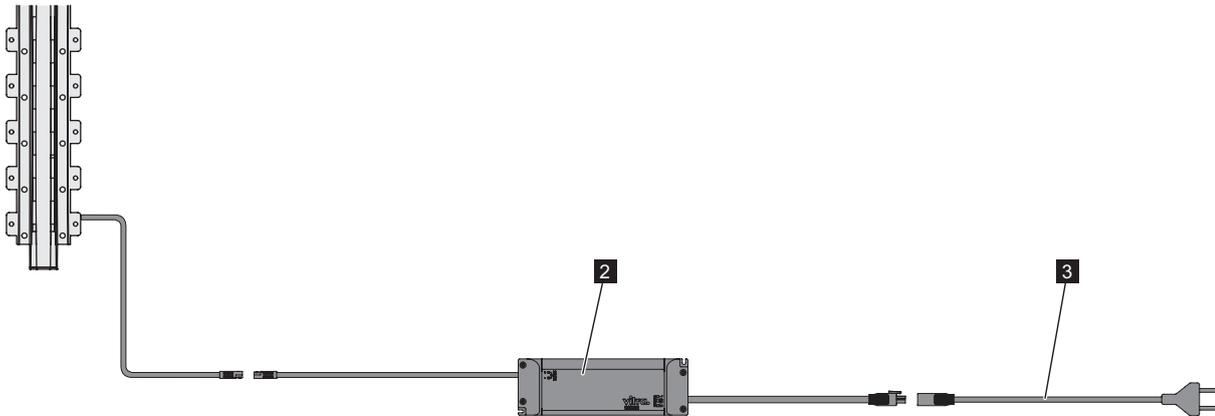
Xero Twin P/L

Assembly and operating instructions

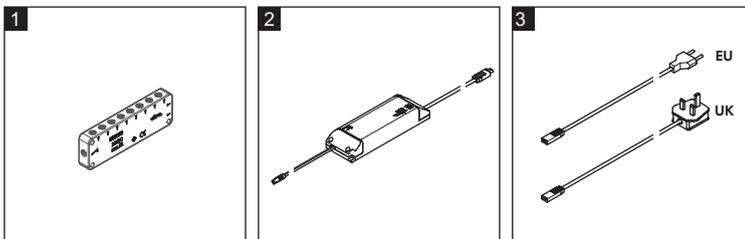
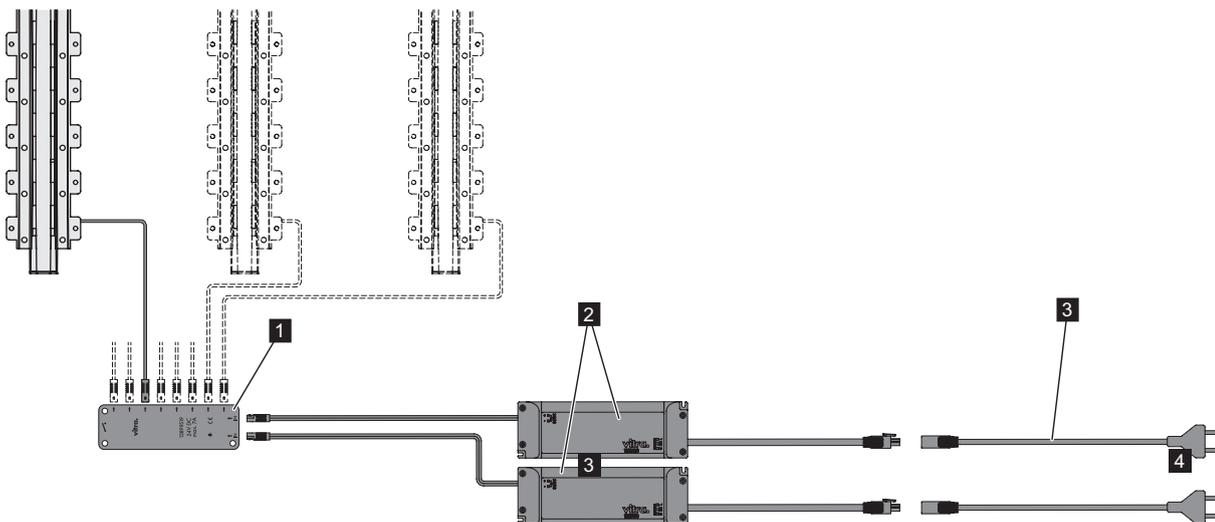
Vitra connection system

⚠ Check the power consumption of electrical appliances! Their maximum power consumption should be 10% below the nominal power of the transformer.

Powering with 75 W transformer



Powering with 150 W transformer



Vitra 24 V distributor, 8 way

Vitra LED transformer

Vitra mains cable 220-240 V

Assembly dimensions / Layout

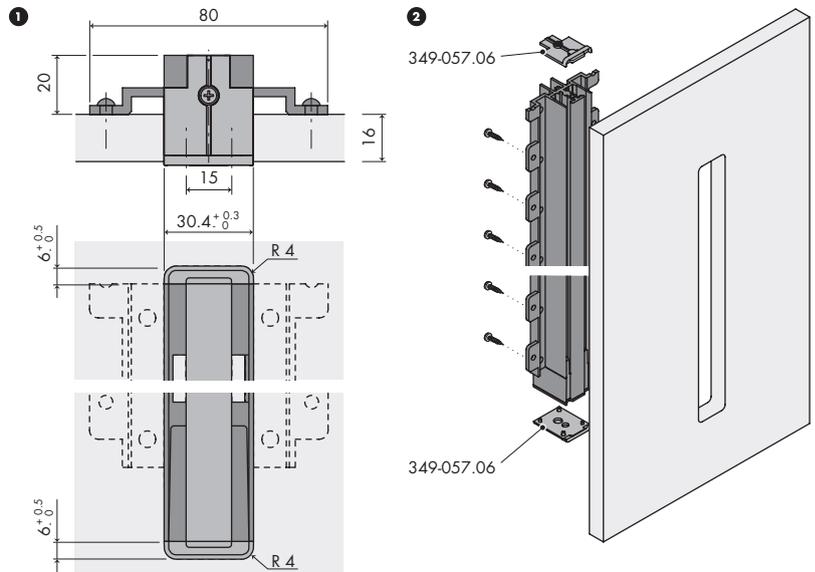
Xero Twin P/L Aluminium profiles can be screwed on panels or various substructures on the wall. The accessories from Xero Twin P/L and Xero 8 can be used.

! Please observe the indications concerning weight loading and ensure that the substructure of the wall units/furniture and their fixtures can support the expected loads.
With free-standing furniture, ensure that there is sufficient stability even with the intended merchandise supports.

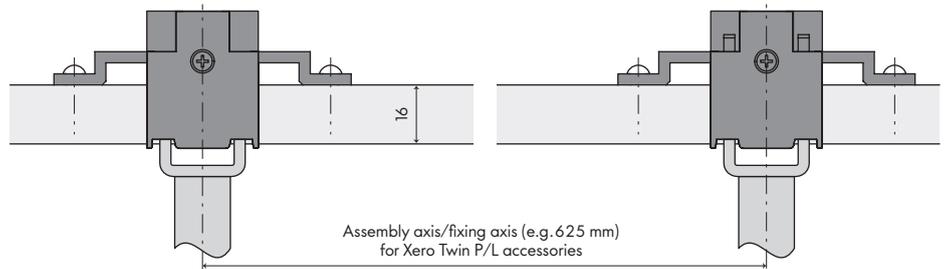
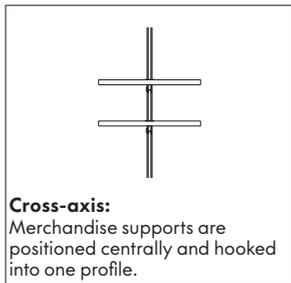
Assembly in wooden panels

Wooden panels on to which Xero Twin P/L is to be fixed, must be countersunk as follows: (1).

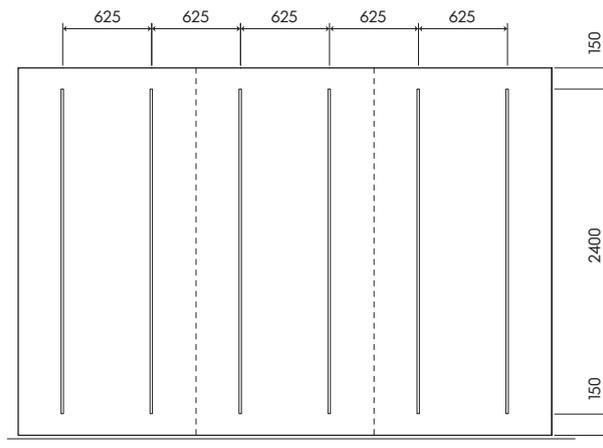
Screw the profile Xero Twin P/L on to the panel from the rear.
Fix the profile caps 349-057.06 to the top of the profile and to the bottom of the power supply, before the profile is installed to the panel (2).



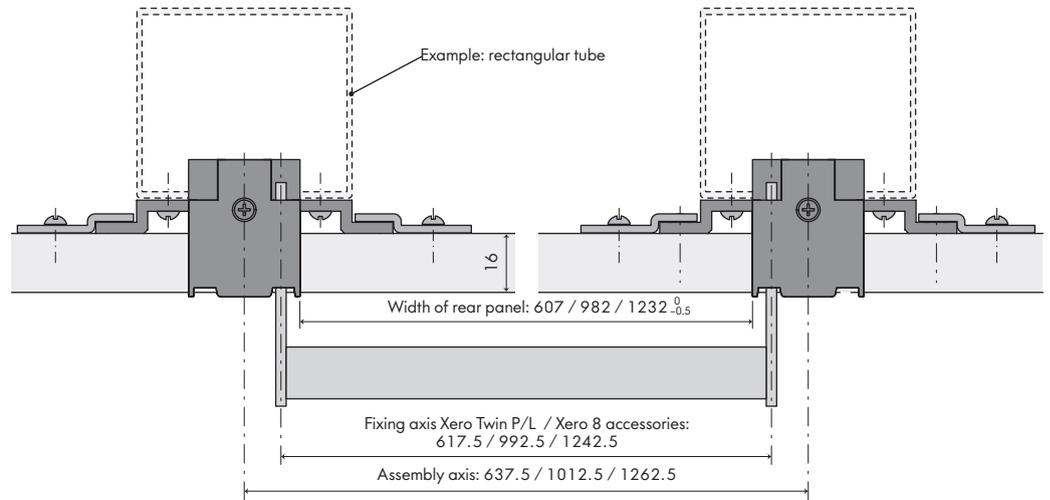
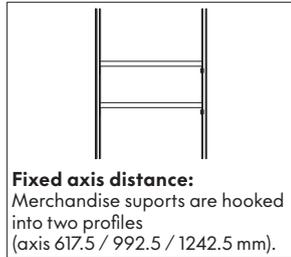
Assembly dimensions: Xero Twin P/L profile screwed on to countersunk wooden panels from the rear / cross-axis



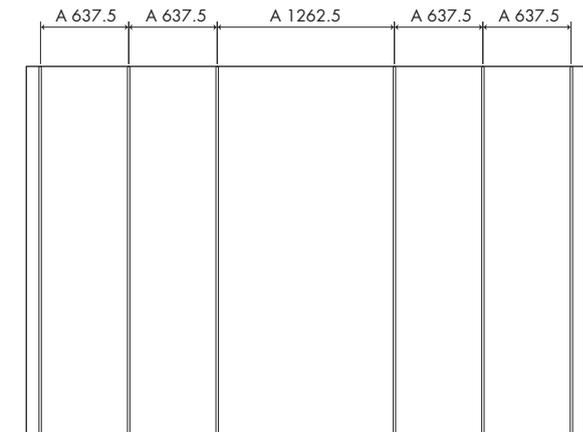
Recommendation for profile axis with Xero Twin P/L accessories.



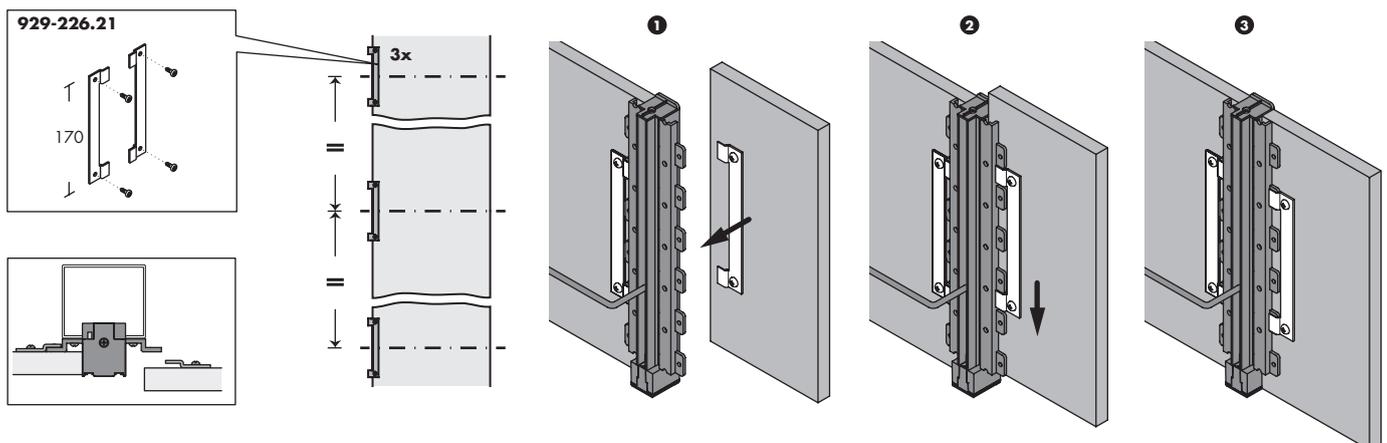
Assembly dimensions: Xero Twin P/L profile screwed on to substructure and rear panels attached from the front / fixed axis distance



Recommendation for profile axis with Xero Twin P/L and Xero 8 accessories.



Inserting the panels into Xero Twin P/L profile



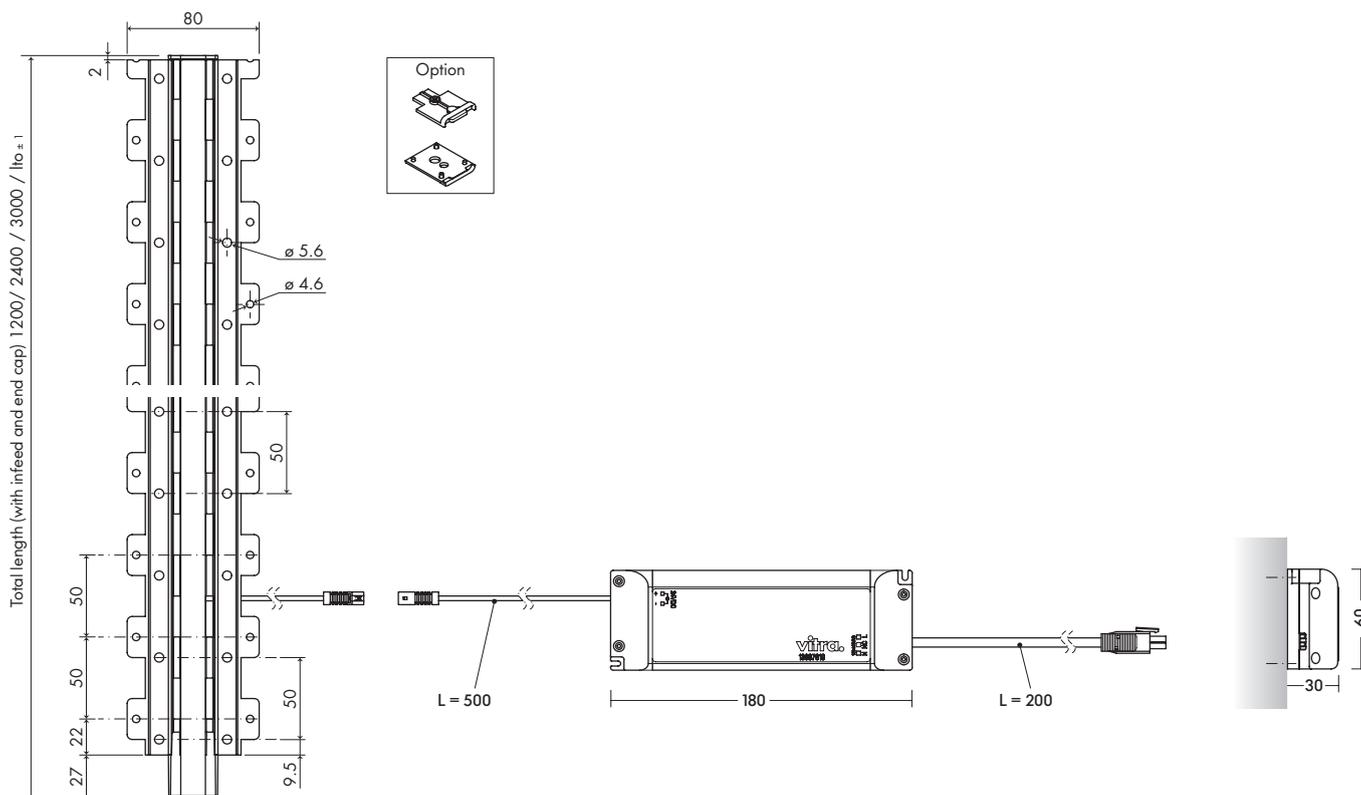
Xero Twin P/L

Assembly and operating instructions

Dimensions of holes

All fastening points are to be used in event of maximum loads!

! End caps must be fitted on profile with conductor rail.



! Take care to assemble the profile in the correct direction (power supply must be below). Power supply is available via the left profile slot. The right-hand side is fitted with a non-powered profile.

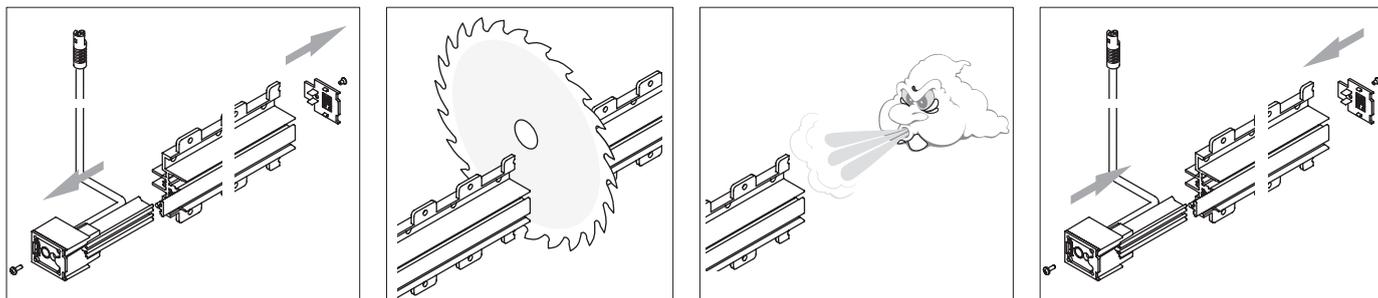
Shortening a profile

! The electrical components and end cap must be removed before a profile is shortened.

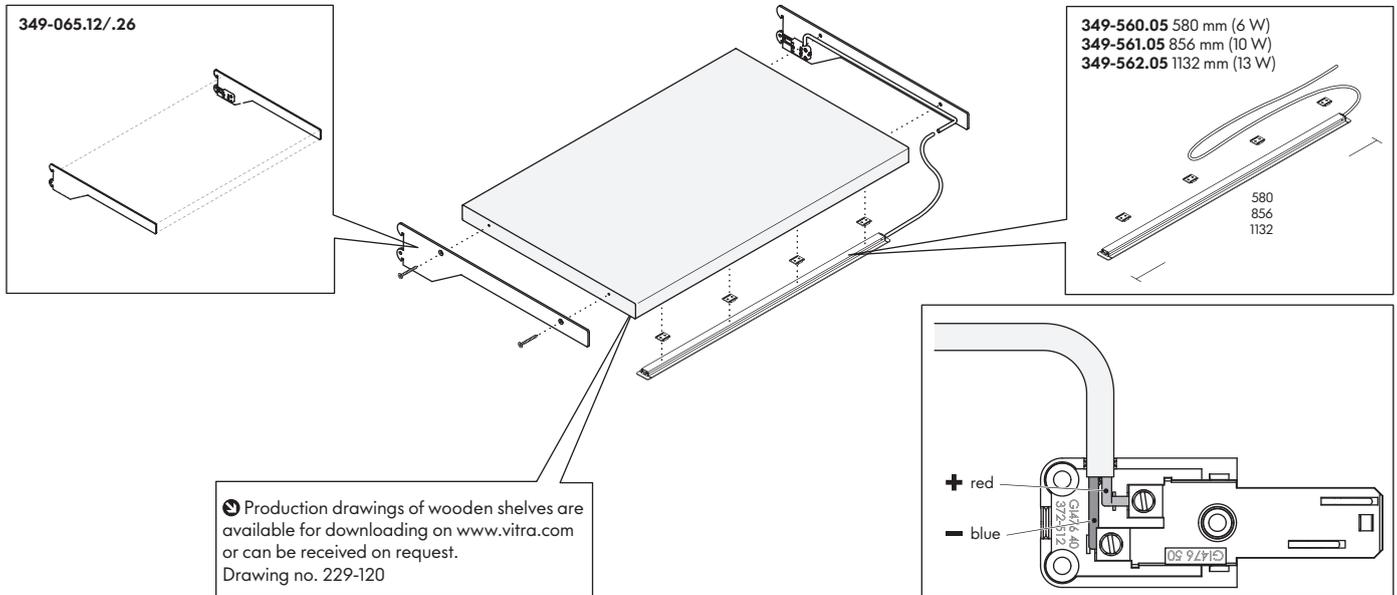
Always shorten a profile from the top side and trim the edges.

Make sure that all shavings are removed from the profile.

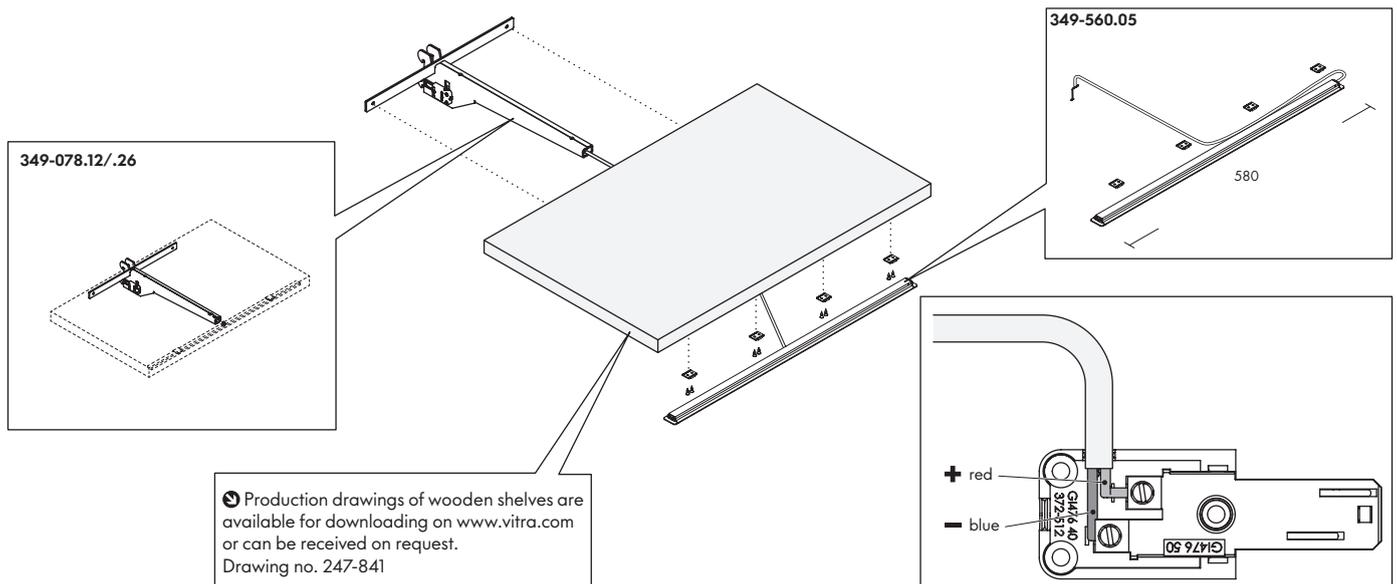
The electrical components and end cap must then be fitted back onto the profile.



Wooden shelf dimension for brackets with single power adapter



Wooden shelf dimension for support bracket with single power adapter



Weight loads

! The indicated weight loads are always based on the total weights of the merchandise support and goods. Please note that max. permissible load decreases as the merchandise support increases in length. Please note that the inclination of the merchandise support changes with an increase in load. Different weights on the merchandise supports result in an uneven overall appearance of the goods display. Please note that the weight limit can be reduced considerably when mounting in glass and sheet metal. The max. permissible load of the Xero Twin P/L depends on the nature of the wall, the number of fastening points as well as the fastening material used. All fastening points are to be used in event of a maximum weight load. Please also observe the weight loads indicated in our sales documentation.

Max. load

Profile	per 1000 mm	100 kg
Shelf frame with LED lighting for wooden or glass shelf		25 kg
Brackets with single power adapter 24 V for wooden shelf		25 kg
Support bracket with LED lighting for glass shelf		25 kg
Support bracket with single power adapter 24 V for wooden shelf		25 kg

Xero Twin P/L

Assembly and operating instructions

vitra.

XERO L P/L

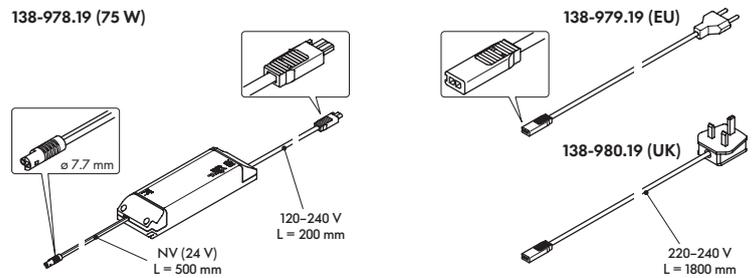
ASSEMBLY AND OPERATING INSTRUCTIONS

TECHNICAL DATA SHEET XERO L P/L

Converter 24 V for electrified profile

Converter 75 W with input voltage 120–240 V / mains frequency: 50–60 Hz / electronic protection against overheating and short-circuit.

- Mains connection with connector for mains cable
- Nominal voltage = 24 V / SELV
- Safety class 2

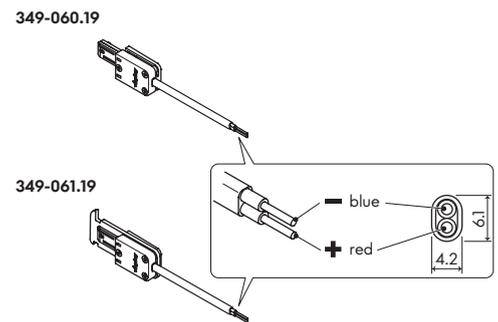


Single power adapter 24 V

Single power adapters can be used with the Xero L P/L and Xero Twin P/L systems. Low voltage lighting and low voltage appliances may only be connected by trained personnel.

If multiple adapters and appliances are used, their total power consumption may not exceed the specified nominal current or fuse rating. The permissible nominal voltage and nominal current are also limited according to the adapters used (see printed label and safety information).

Permissible nominal current max. 4 A.



Product safety

Xero L P/L electrification in detail: conductor rail with power supply, integrated into system support profile.

Correct functioning and safety are guaranteed when properly used. No liability is accepted in event of improper use. Product safety is based exclusively on the use of original Xero L P/L and Xero Twin P/L accessories from Vitra.

No alterations may be made, for safety reasons; the only exception being the shortening of profiles from the right-hand side.

The safety instructions of the assembly instructions must be followed as well as the instructions on the labels of the individual parts.

The indicated nominal current (A) may not be exceeded.

In event of improper use or cleaning with liquids, a risk of electric shock exists due to possibly exposed live parts. Always disconnect from power before cleaning or servicing.

If rails or adapters exhibit visible signs of damage, disconnect them immediately and inform your service technician.

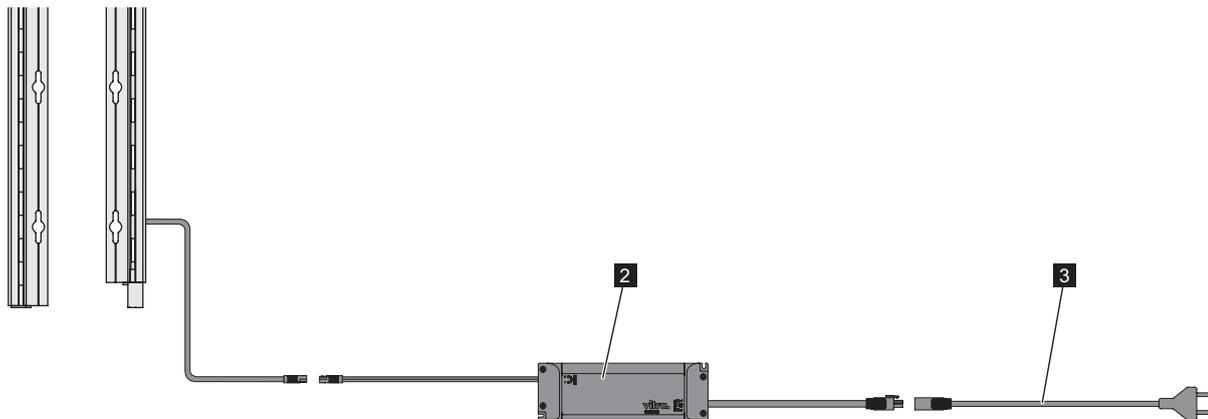
! Only use Xero L P/L and Xero Twin P/L system accessories! Do not use any other parts.

The user is responsible for ensuring that any connected equipment is electrically, mechanically and thermally compatible with the conductor rail.

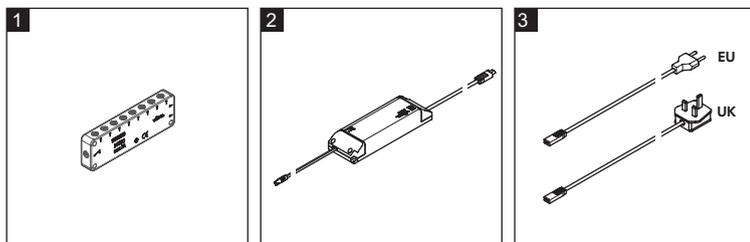
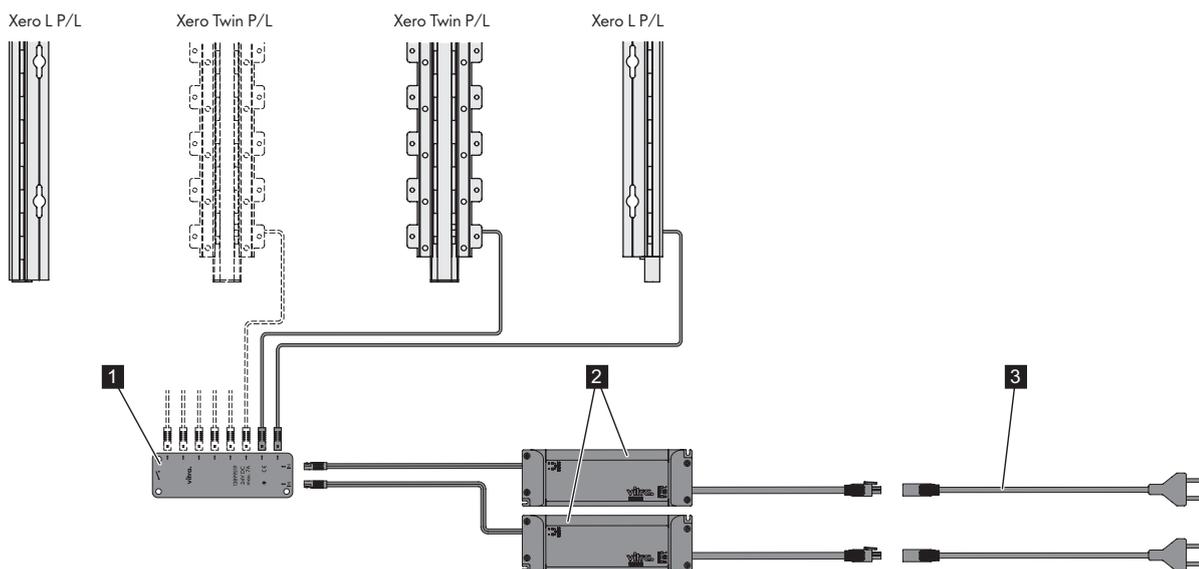
Vitra connection system

⚠ Check the power consumption of electrical appliances! Their maximum power consumption should be 10% below the nominal power of the transformer.

Powering with 75 W transformer



Powering with 150 W transformer



Vitra 24 V distributor, 8 way

Vitra LED transformer

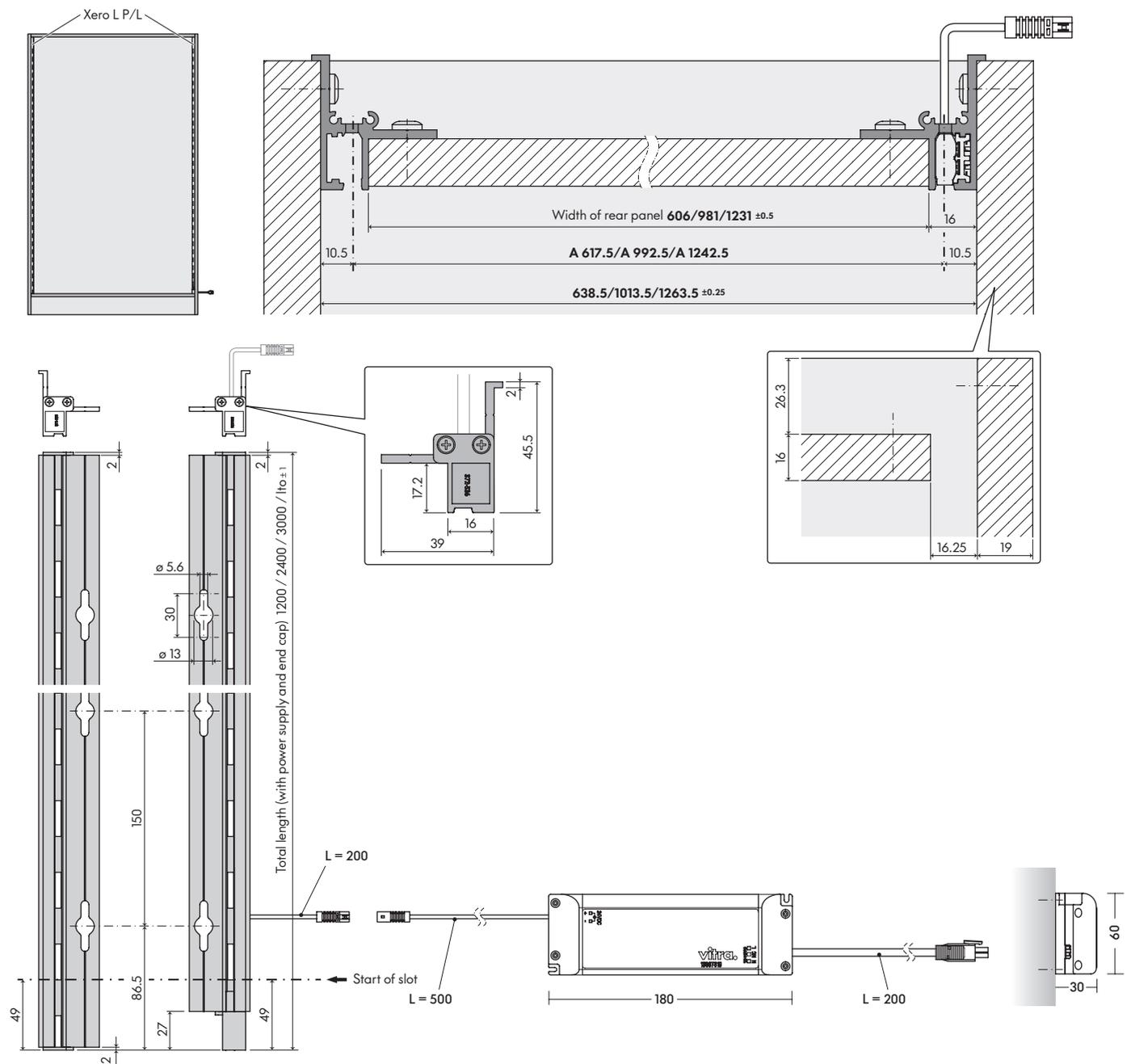
Vitra mains cable 220-240 V

Assembly dimensions / Layout

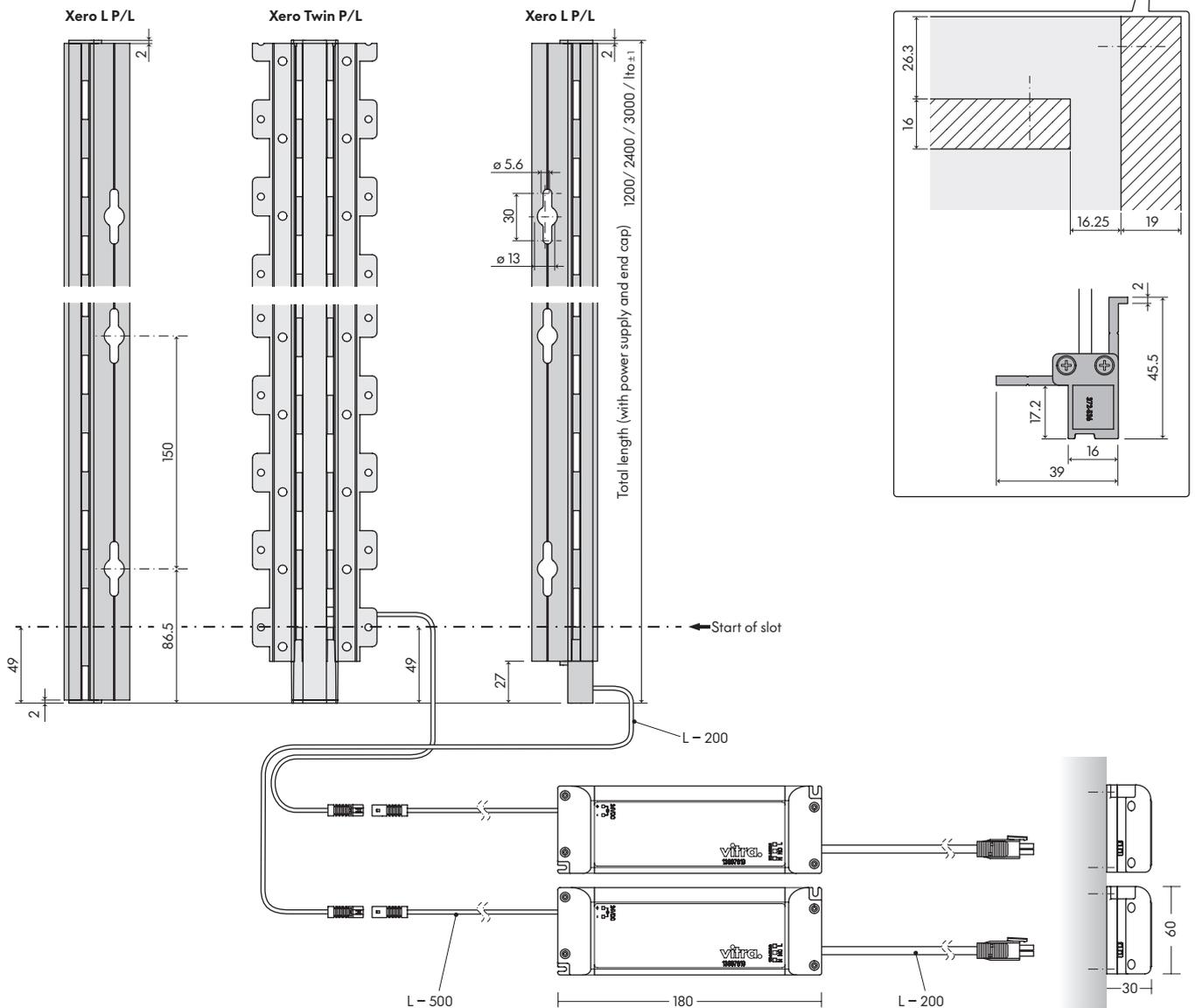
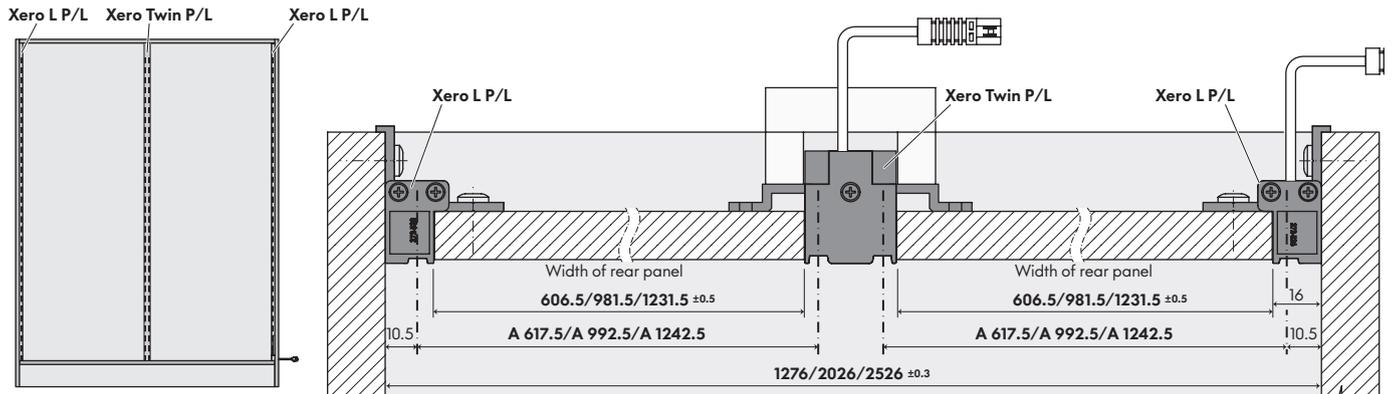
Xero Twin P/L profiles can be screwed in cabinets or on panels.
The accessories with fixed axis distance from Xero L P/L and Xero Twin P/L can be used.

- ❗ Please observe the indications concerning weight loading and ensure that the substructure of the wall units/furniture and their fixtures can support the expected loads.
With free-standing furniture, ensure that there is sufficient stability even with the intended merchandise supports.
All fastening points are to be used in event of maximum loads!
End caps must be fitted on profile with conductor rail.

Assembly dimensions for 1 axis: Xero L P/L profile set electrified

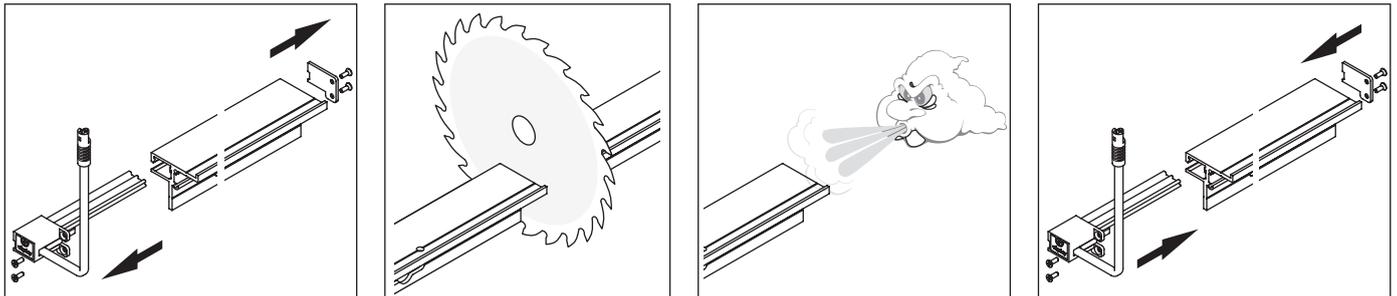


Assembly dimensions for 2 axis: Xero L P/L profile set electrified and Xero Twin P/L profile electrified

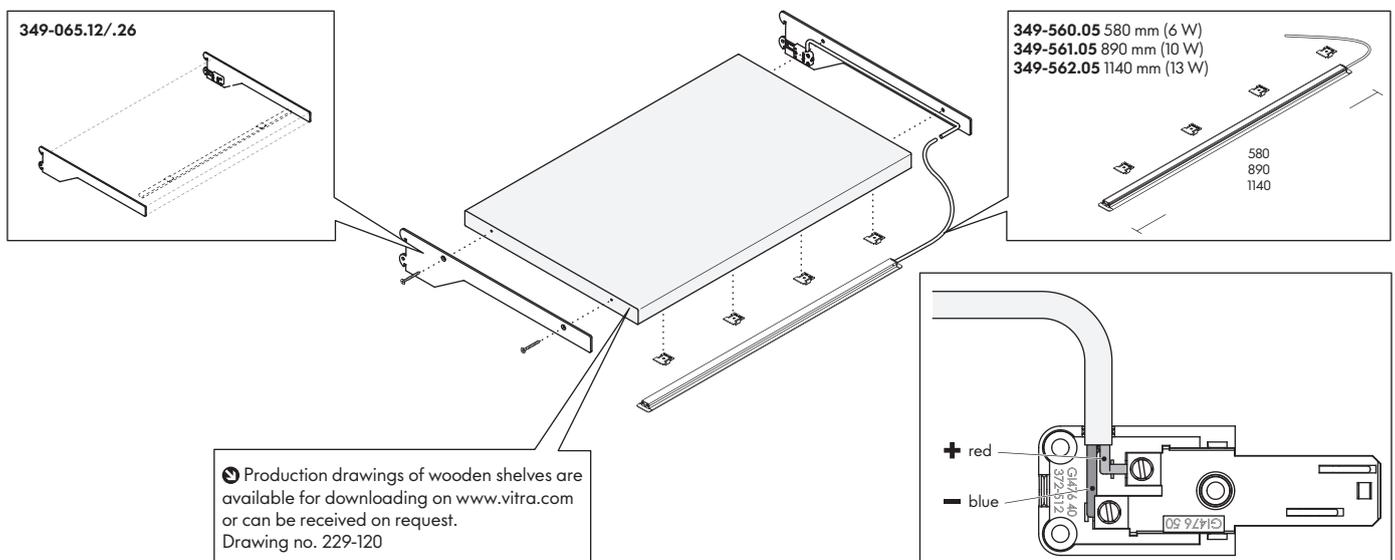


Shortening a profile

- ❗ The electrical components and end cap must be removed before a profile is shortened.
Always shorten a profile from the top side and trim the edges.
Make sure that all shavings are removed from the profile.
The electrical components and end cap must then be fitted back onto the profile.



Wooden shelf dimension for LED lighting fixture with cable connection



Weight loads

- ❗ The indicated weight loads are always based on the total weights of the merchandise support and goods.
Please note that max. permissible load decreases as the merchandise support increases in length.
Please note that the inclination of the merchandise support changes with an increase in load. Different weights on the merchandise supports result in an uneven overall appearance of the goods display.
Please note that the weight limit can be reduced considerably when mounting in glass and sheet metal.
The max. permissible load of the Xero L P/L depends on the nature of the wall, the number of fastening points as well as the fastening material used. All fastening points are to be used in event of a maximum weight load.
Please also observe the weight loads indicated in our sales documentation.

Max. load

Profile	per 1000 mm	100 kg
Shelf frame with LED lighting for wooden or glass shelf		25 kg
Brackets with/without single power adapter 24 V for wooden shelf		25 kg

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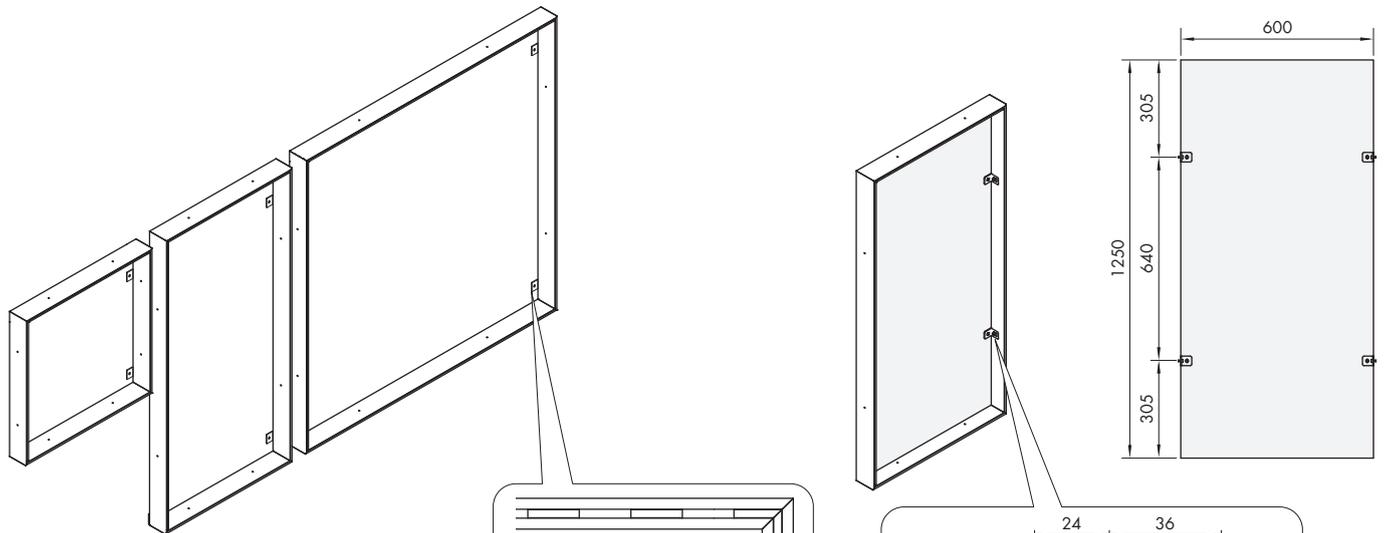
XERO FRAME

ASSEMBLY AND OPERATING INSTRUCTIONS

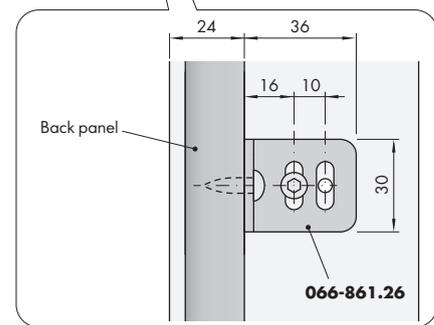
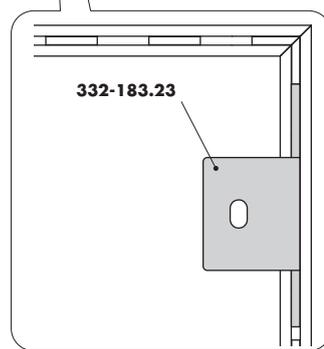
Xero Frame dimensions

❗ Please observe the indications concerning weight loading and ensure that the substructure of the wall units/furniture and their fixtures can support the expected loads.
With free-standing furniture, ensure that there is sufficient stability even with the intended merchandise supports.

Frame: for attachment to the wall



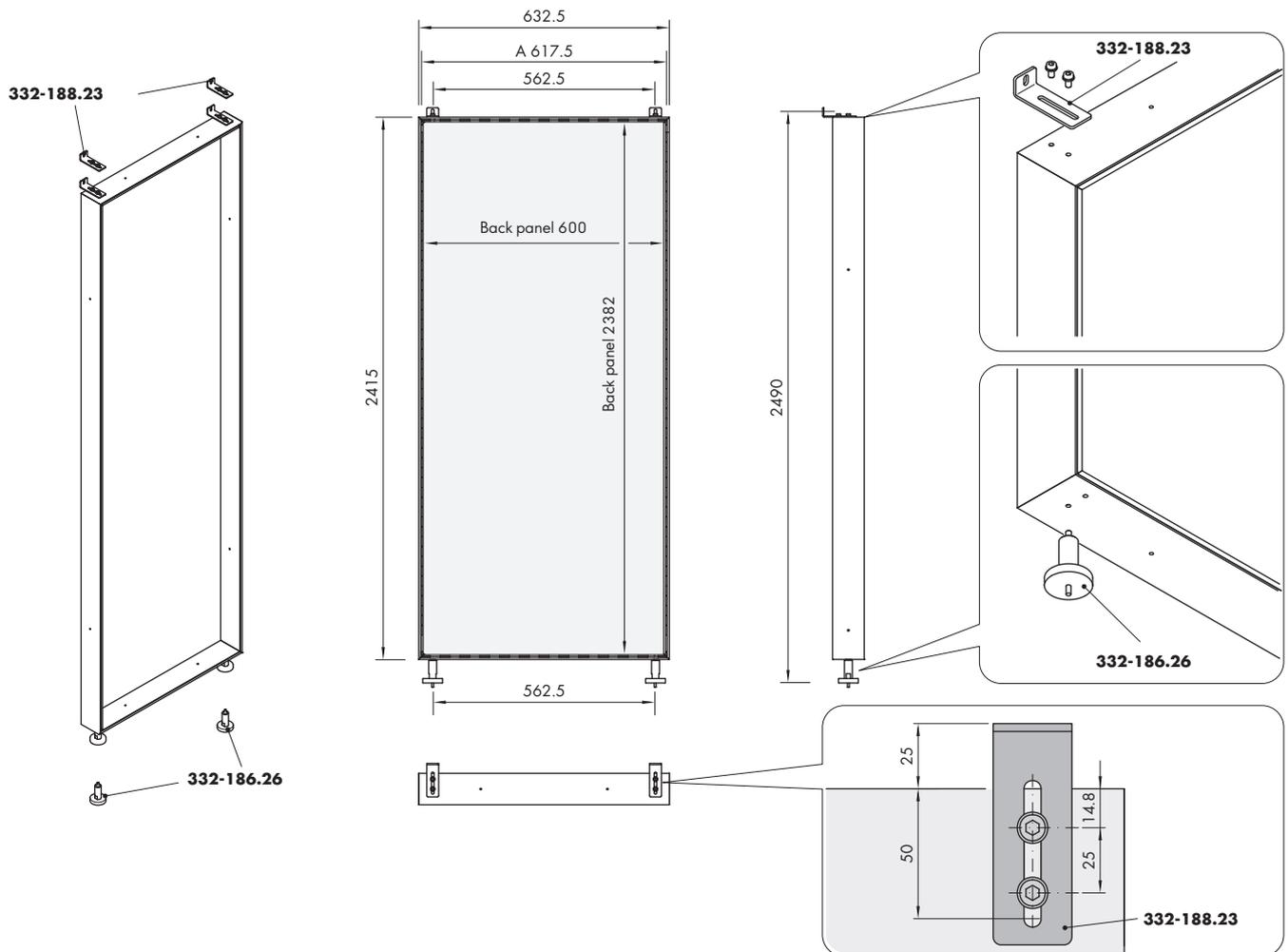
❗ The fixtures and wall must be able to support a traction of min. 1.6 kN (160 kg) per point of fixture. The type of fixtures for the wall screw fittings must be determined by the assembly fitter according to the wall structure.



Xero Frame

Assembly and operating instructions

Wall frame: standing on the floor fixed to the wall



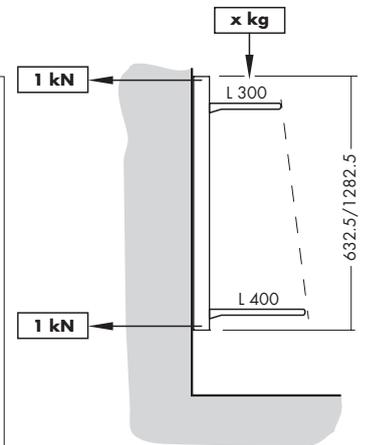
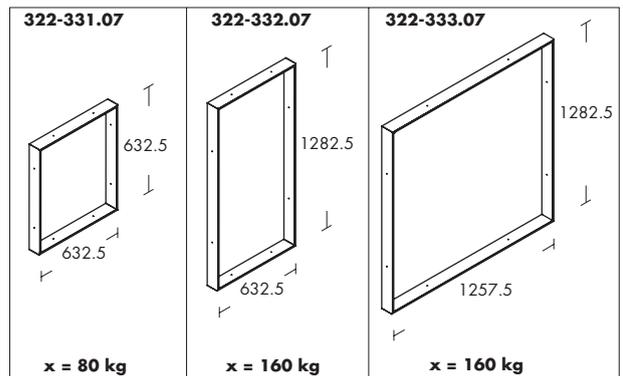
Weight loading

! The indicated weight loads are always based on the total weights of the merchandise support and goods.
 Please observe that max. weight loading decreases as the merchandise support increases in length.
 Please observe that the inclination of the merchandise support changes with an increase in load. Different weights on the merchandise supports produce an uneven overall appearance of the goods display.
 The max. weight loading of Xero Frame depends on the nature of the wall, on the number of fixation points as well as on the fixation material used.
 All fixation points are to be used with a maximum weight load.
 The fixtures must be selected according to the manufacturer's recommendations and the type of on-site masonry.
 Please also observe the weight loads indicated in our sales documentation.

Wall fixing brackets

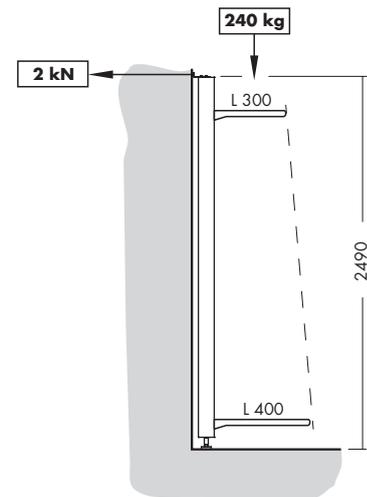
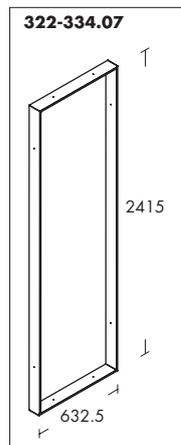
Frame

The permissible weight load of all accessories: max. x kg.
 The weight load must be reduced as the height of the accessories increases.



Wall frame

The permissible weight load of all accessories: max. 240 kg.
 The weight load must be reduced as the height of the accessories increases.



Max. load

Back bar 35 x 20 mm	40 kg
Front arms	20 kg
Side hanging frame 30 x 15 mm	40 kg
Bracket for wooden shelf	per bracket 40 kg

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XERO STRUC 4

ASSEMBLY AND OPERATING INSTRUCTIONS

Xero Struc 4

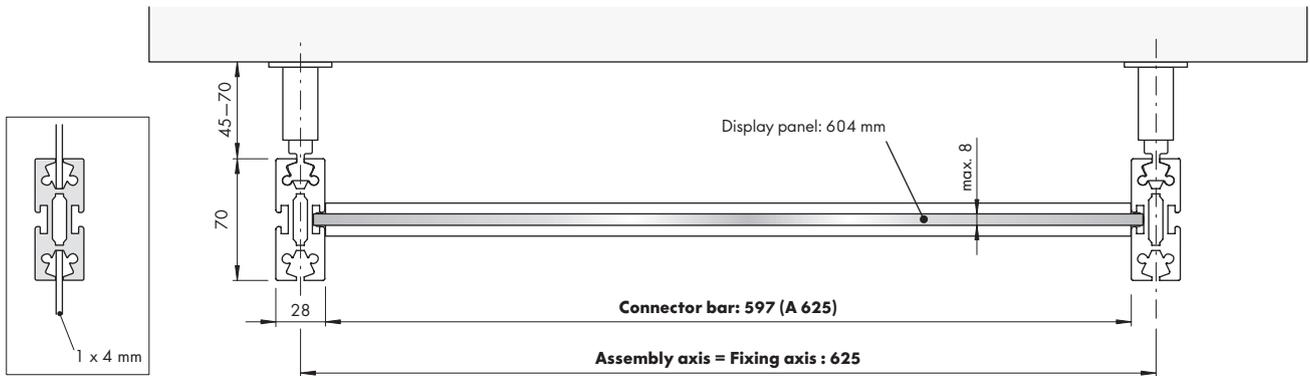
Assembly and operating instructions

Assembly dimensions / Layout

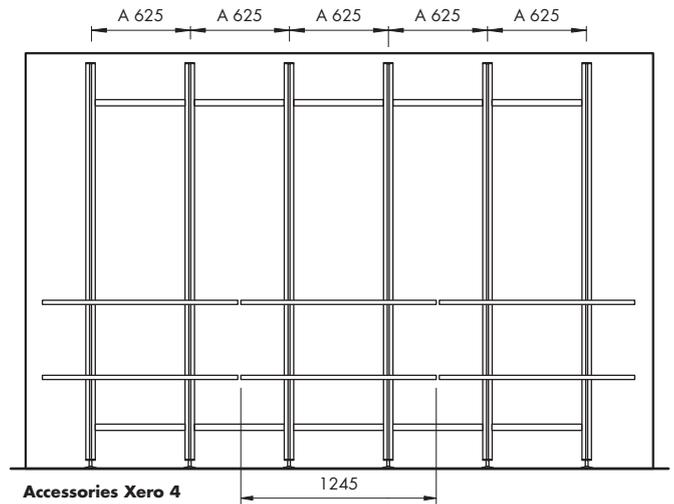
Xero Struc 4 can be used on the wall and as a room divider.

! Powder-coated accessories can not be used.

Dimensions

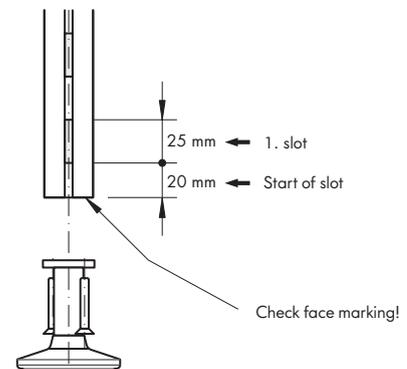


Recommendation for grid arrangement



Assembly instructions

When fitting adjustable foot check position of slot.

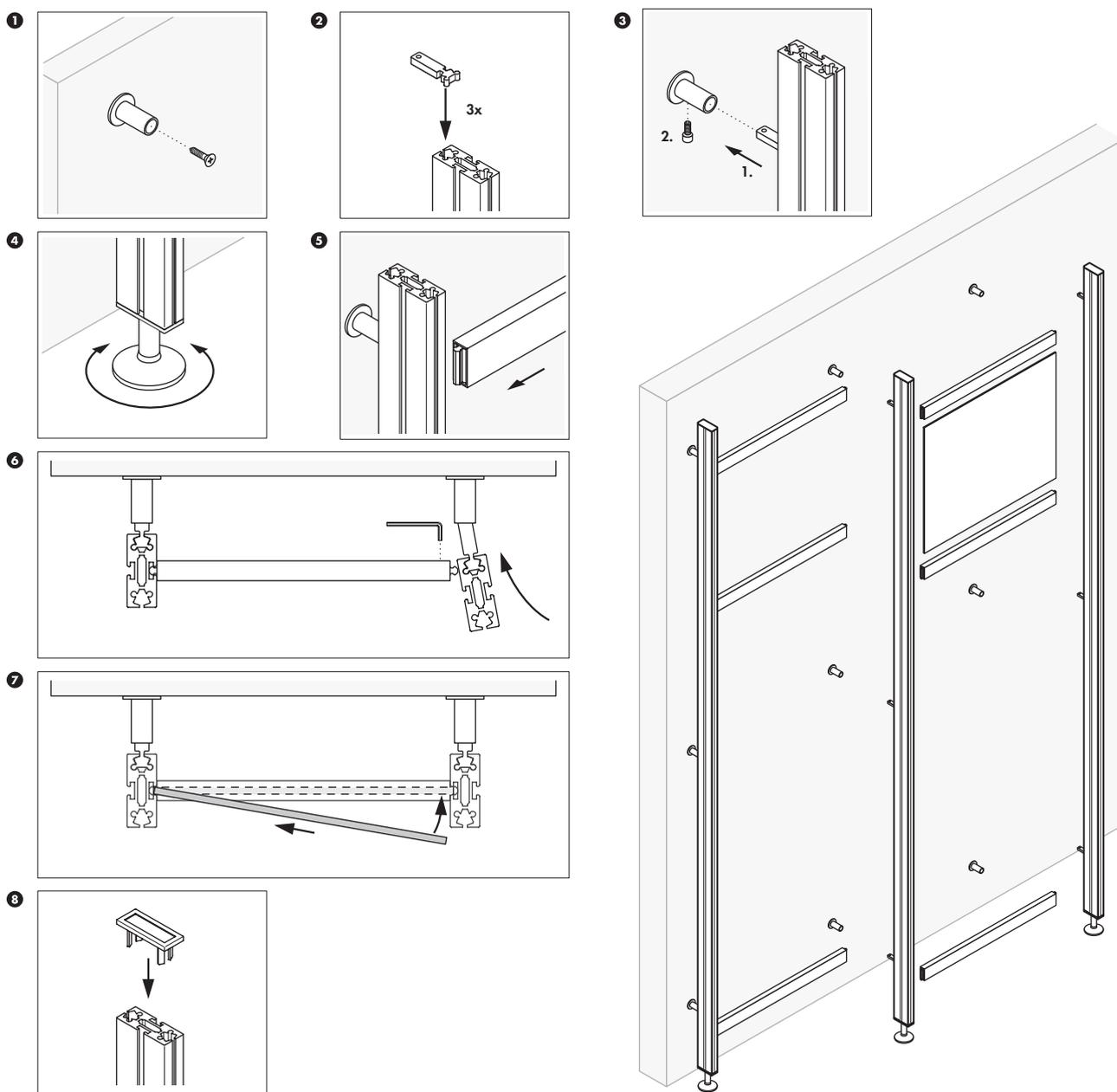


Xero Struc 4

Assembly and operating instructions

Assembly on the wall

1. Remove suspension bolt from wall bracket.
Secure wall attachments for upright to wall using 1 Ø 6 mm screw. Three wall brackets are recommended with an upright height of 2400 mm. The fixtures and wall must be capable of taking a min. fraction weight of 160 kg.
2. Insert suspension bolts (3 per upright) into upright.
3. Insert suspension bolts into wall brackets and secure with enclosed cheese head screw.
4. Adjust the height of the uprights using the adjustable feet.
5. Insert the connector bar (min. 2 per axis) laterally into the uprights and tighten the clamping screws with the Allen key.
6. Insert the next upright (see point 2) into the wall bracket and connect with the connector bar.
7. Insert display panel sideways into the groove and centre between the uprights.
8. Fit end cap.

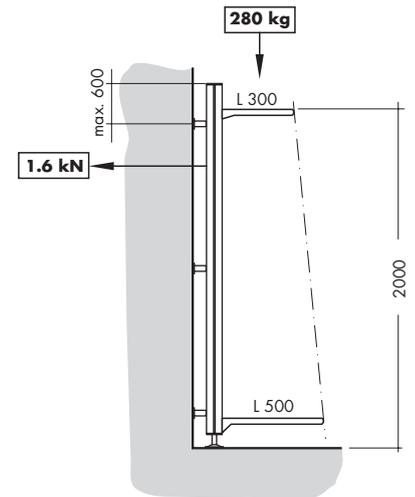


Weight loading

❗ The fixtures must be selected according to the manufacturer's recommendations and the type of on-site masonry.

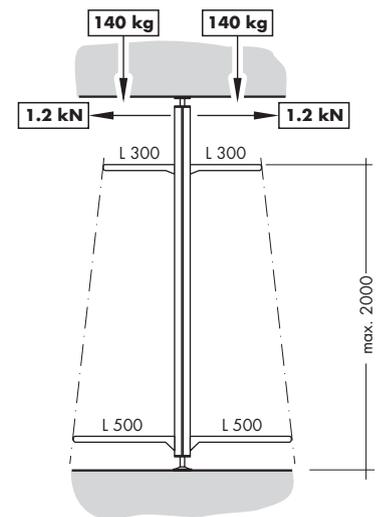
Wall fixing brackets

The permissible weight load of all accessories: max. 280 kg.
The weight load must be reduced as the height of the accessories increases.



Ceiling fixation

Max. accessory height 2000 mm.
Permissible weight loading for all accessories is max. 280 kg, (max. 140 kg per side).
The ceiling fixture must be capable of taking a min. fraction weight of 1.2 kN.
The max. overhang is 500 mm.
The weight load must be reduced as the height of the accessories increases.
Mid-floor uprights must also be fixed to the floor. Use the adjustable foot with Ø 6 mm pin (300-822.48) for this purpose.



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GRID 50

ASSEMBLY AND OPERATING INSTRUCTIONS

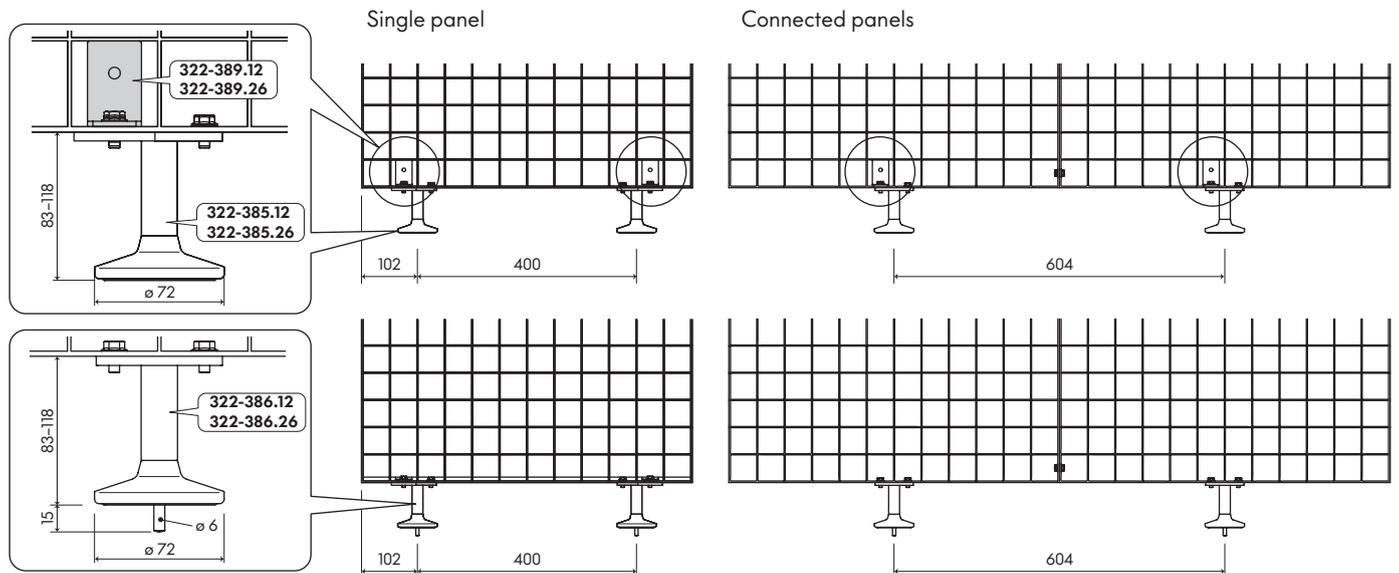
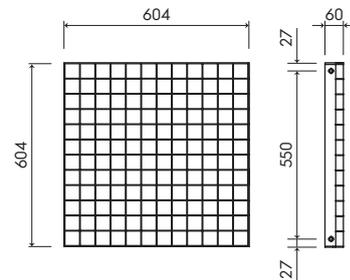
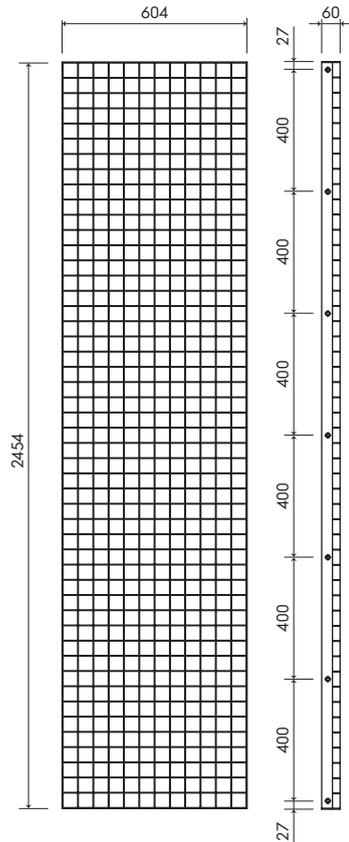
Grid 50

Assembly and operating instructions

Assembly dimensions / Layout

! The fixation material and the wall must be capable of supporting a min. fraction weight of 180 kg.
 Please observe the indications concerning weight loading and ensure that the substructure of the wall units/furniture and their fixtures can support the expected loads.
 With free-standing furniture, ensure that there is sufficient stability even with the intended merchandise supports.

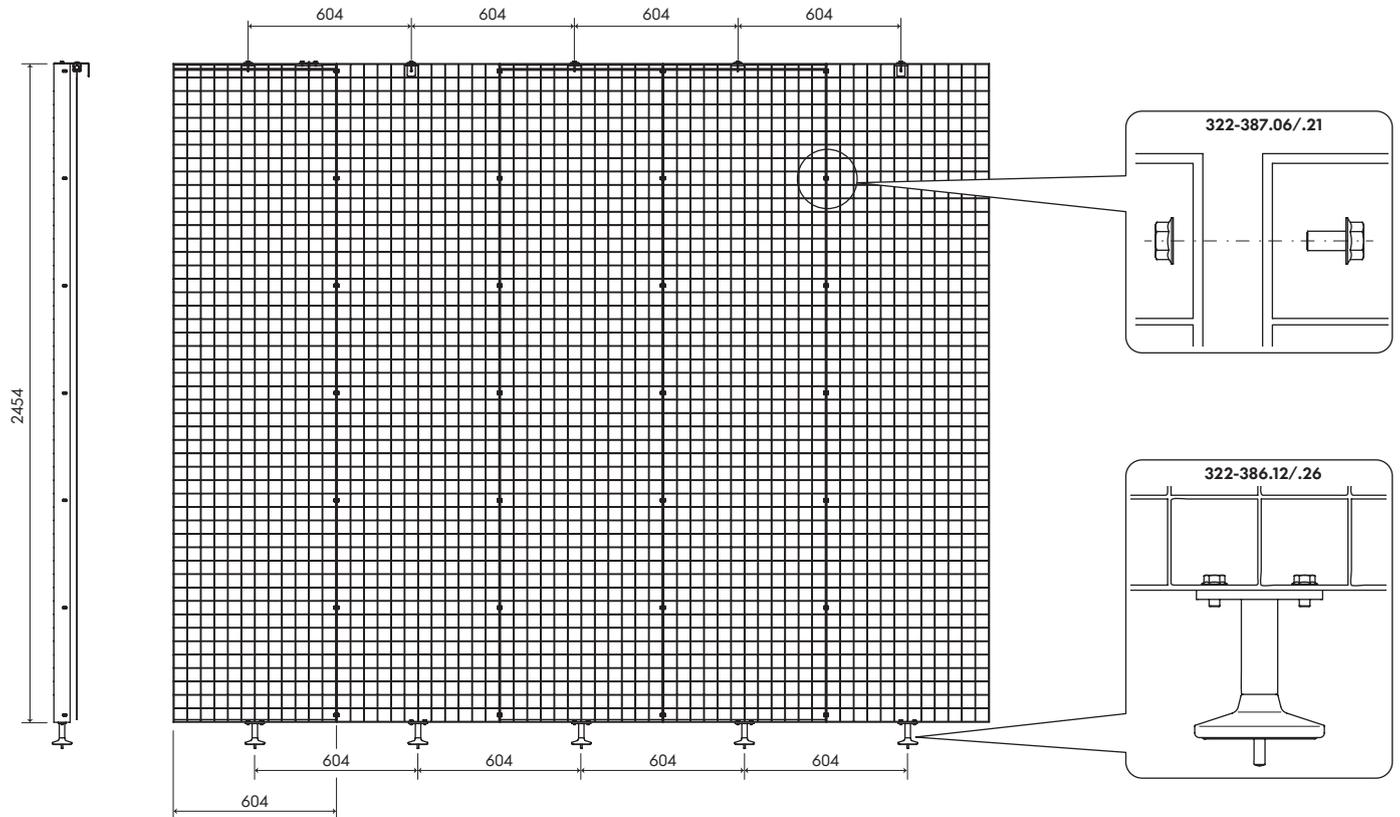
Grid 50 panels for wall



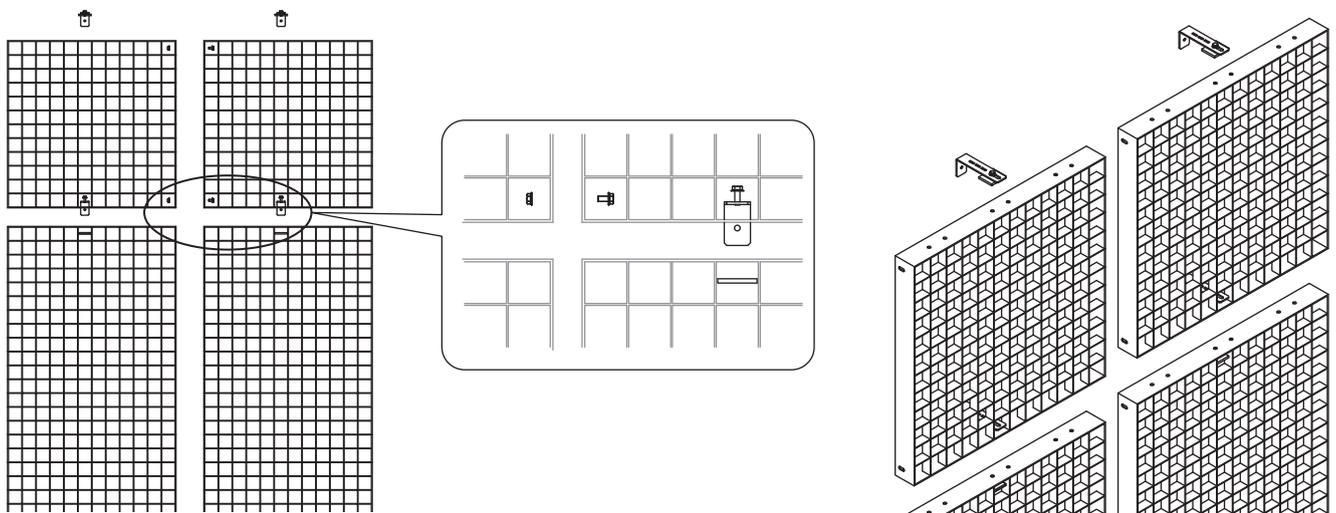
Grid 50

Assembly and operating instructions

Assembly of several wall elements



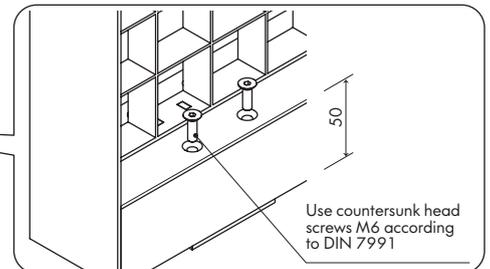
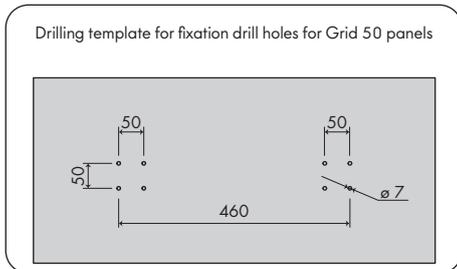
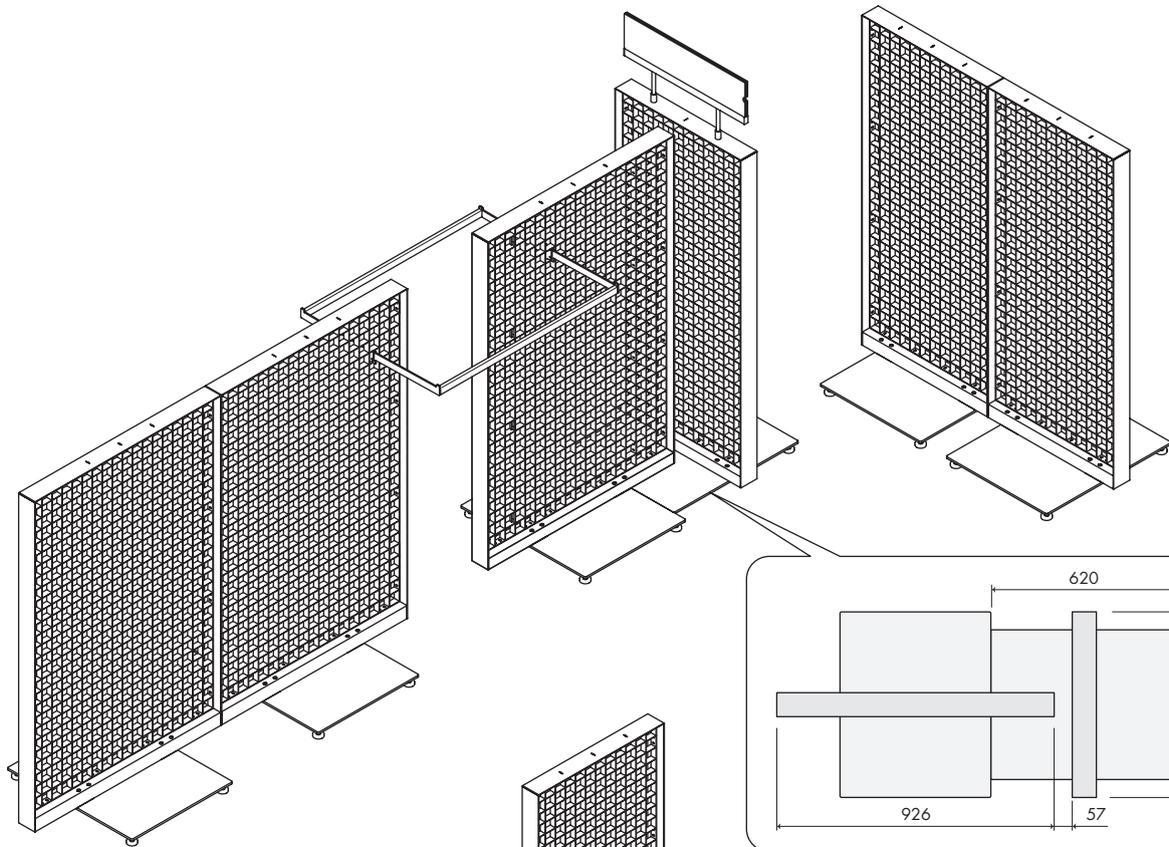
Top section on Grid 50 panels



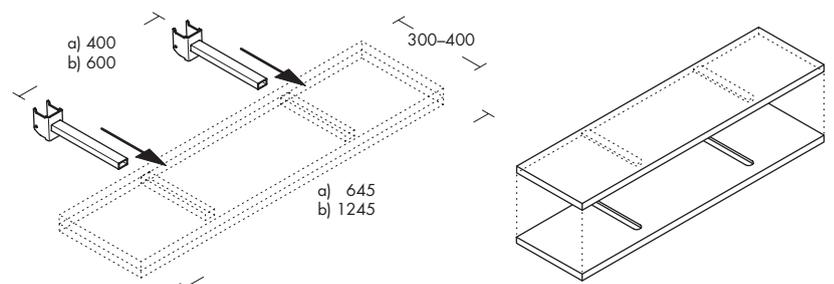
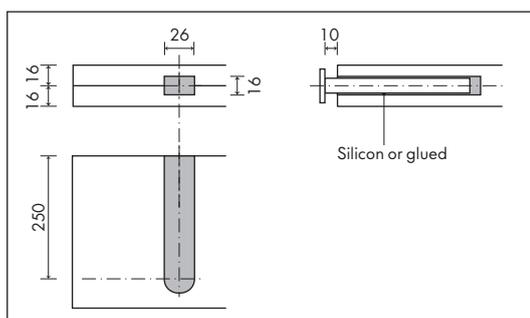
Grid 50

Assembly and operating instructions

Grid 50 gondolas



Shelf dimension for bracket

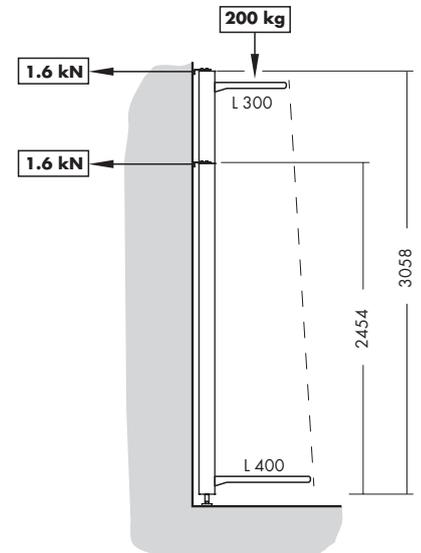
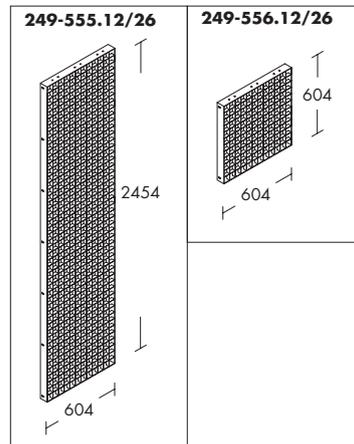


Weight loading

! The indicated weight loads are always based on the total weights of the merchandise support and goods. Please observe that max. weight loading decreases as the merchandise support increases in length. Please observe that the inclination of the merchandise support changes with an increase in load. Different weights on the merchandise supports produce an uneven overall appearance of the goods display. The max. weight loading of Grid 50 depends on the nature of the wall, on the number of fixation points as well as on the fixation material used. All fixation points are to be used with a maximum weight load. The fixtures must be selected according to the manufacturer's recommendations and the type of on-site masonry. Please also observe the weight loads indicated in our sales documentation.

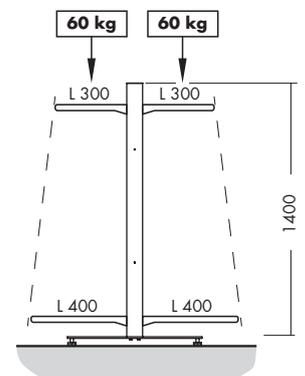
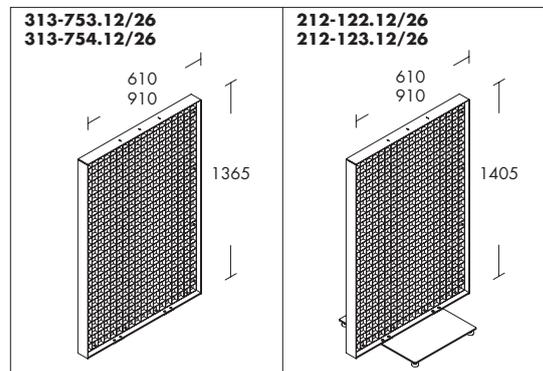
Frame

The permissible weight load of all accessories: max. 200 kg. The weight load must be reduced as the height of the accessories increases.



Gondola

The permissible weight loading of all accessories: max. 120 kg (60 kg per side). Max. overhang is 400 mm. The weight load must be reduced as the height of the accessories increases.



Max. load

Front arm 30 x 15 mm	20 kg
Side hanging frame 30 x 15 mm	30 kg
Metal shelf	10 kg
Bracket for wooden shelf	per bracket 20 kg
Clamping bracket for glass shelf	per bracket 15 kg
Front arm	10 kg
Side hanging frame 20 x 10 mm	15 kg
Mounting set for Box	40 kg

Grid 50

Assembly and operating instructions

vitra.

KADO 15

ASSEMBLY AND OPERATING INSTRUCTIONS

Kado 15

Assembly and operating instructions

Installation dimensions/planning instructions

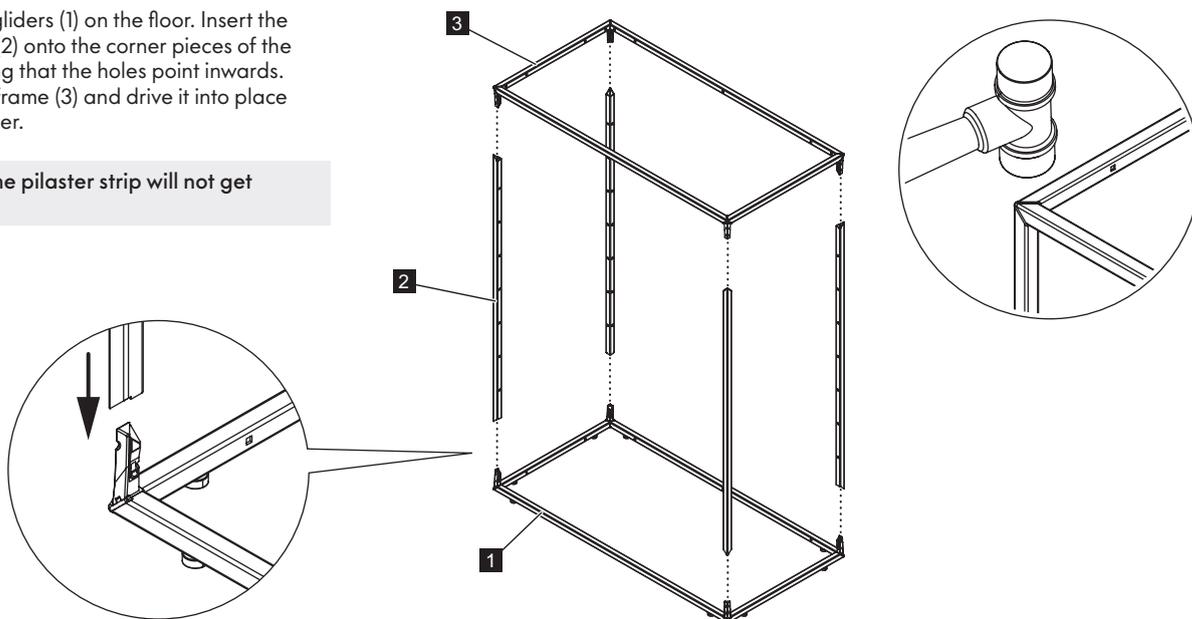
All constructions from Kado 15 function according to the same principle and are delivered part-assembled in flat-pack form.

❗ Please observe the information on the loading values and ensure that the substructure of the wall installation/furniture and its fastenings can cope with the expected loads. For free-standing furniture, ensure sufficient tipping stability.

Installation of the construction

Lay the frame with gliders (1) on the floor. Insert the 4 connecting pipes (2) onto the corner pieces of the lower frame, ensuring that the holes point inwards. Place on the upper frame (3) and drive it into place with a rubber hammer.

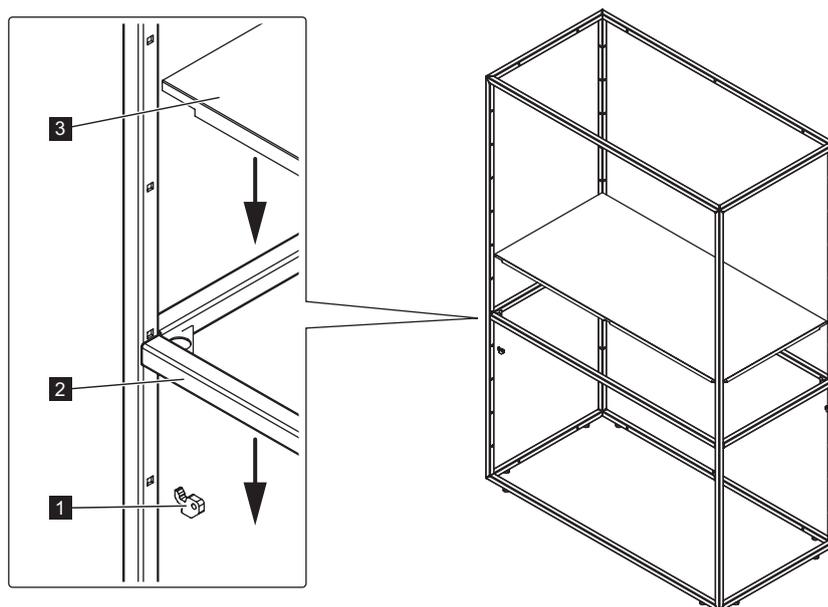
❗ Take care that the pilaster strip will not get damaged.



Installation of the shelf element frame

The shelf element frames serve to accommodate the wood- and glass shelf elements and to stiffen the construction. A shelf element frame is required to stiffen the construction!

Insert the 4 brackets (1) into the vertical pipes at the same height. Place the shelf element frame (2) onto the brackets. Insert the wood- or glass shelf element (3) into the shelf element frame.



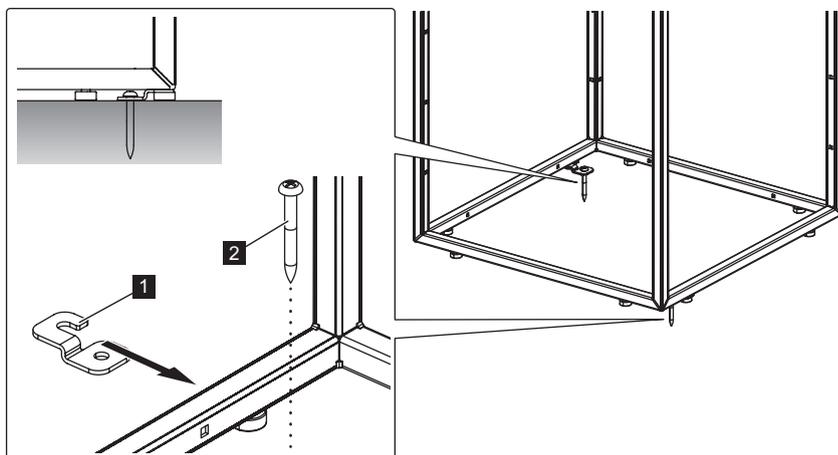
Kado 15

Assembly and operating instructions

Fastening set for the floor

❗ For mid-room constructions, with a minimum height of 1000 mm, a fastening to the floor is prescribed in accordance with DIN EN 16121:2013.

Slide the two diagonally-opposed fastenings (1) over the threaded bolts of the gliders and screw them to the floor with the screws (2).



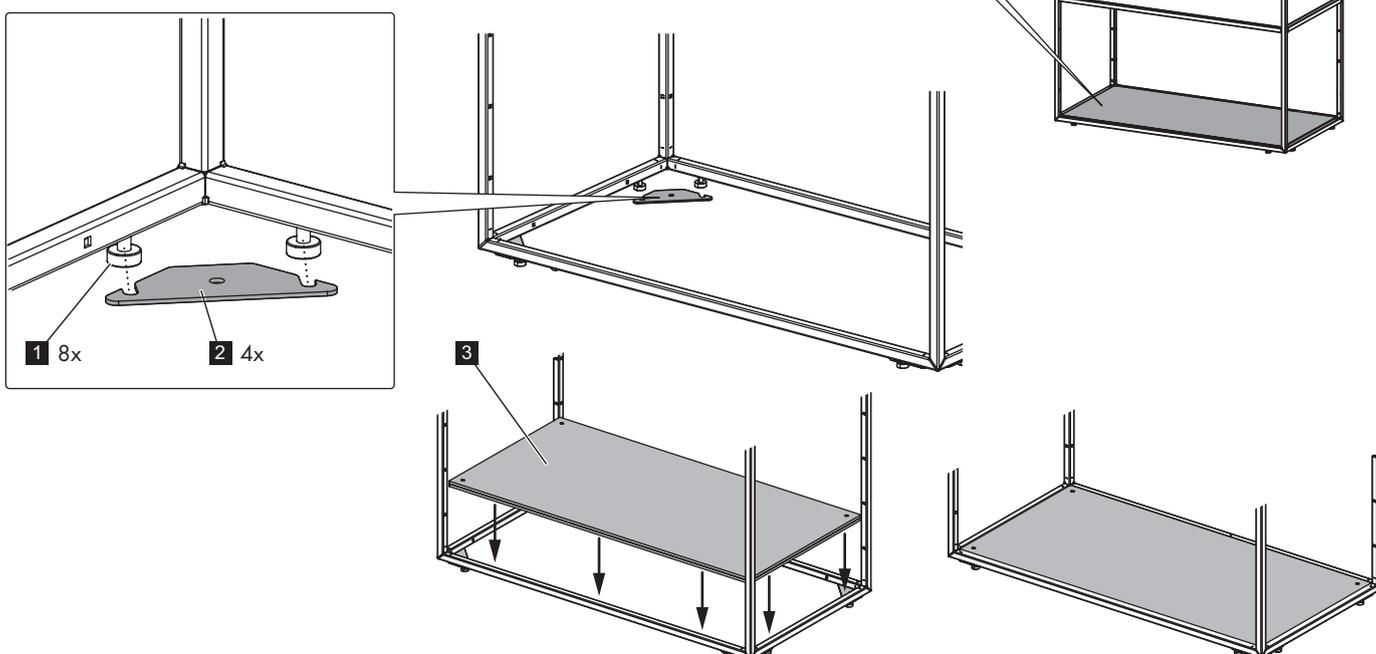
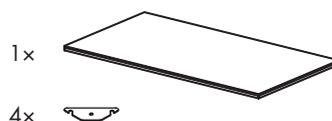
Converter bottom

If a connection to the floor via a fastening set is not possible, a converter bottom must be used.

Unscrew all the glides (1) slightly. Insert the 4 plates (2) between the glides and the structure. Tighten the glides by hand.

Place the converter bottom (3) on the mounted plates.

368x368 mm **336-509.07**
768x368 mm **336-510.07**
1168x368 mm **336-511.07**

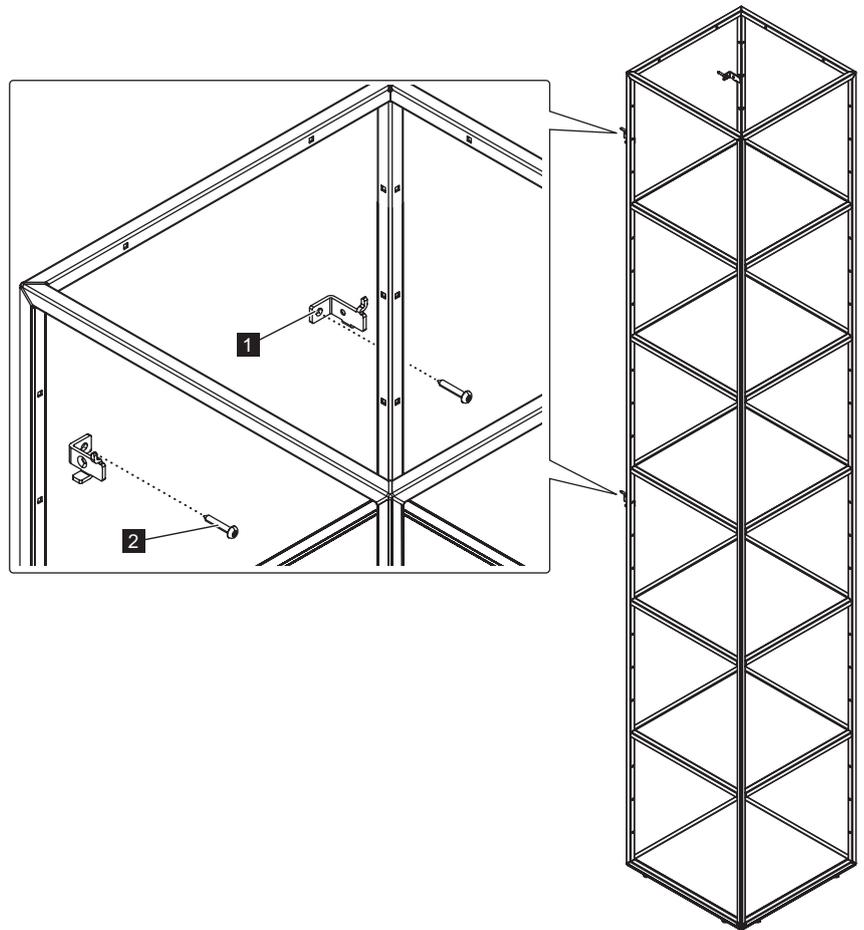


Installation on the wall

The wall construction is to be fastened to the wall with 4 wall mounts. Attach the fastening points as far upwards and directly beneath the middle as possible.

Place the wall mounts (1) in the vertical pipes and screw them into place with screws (2).

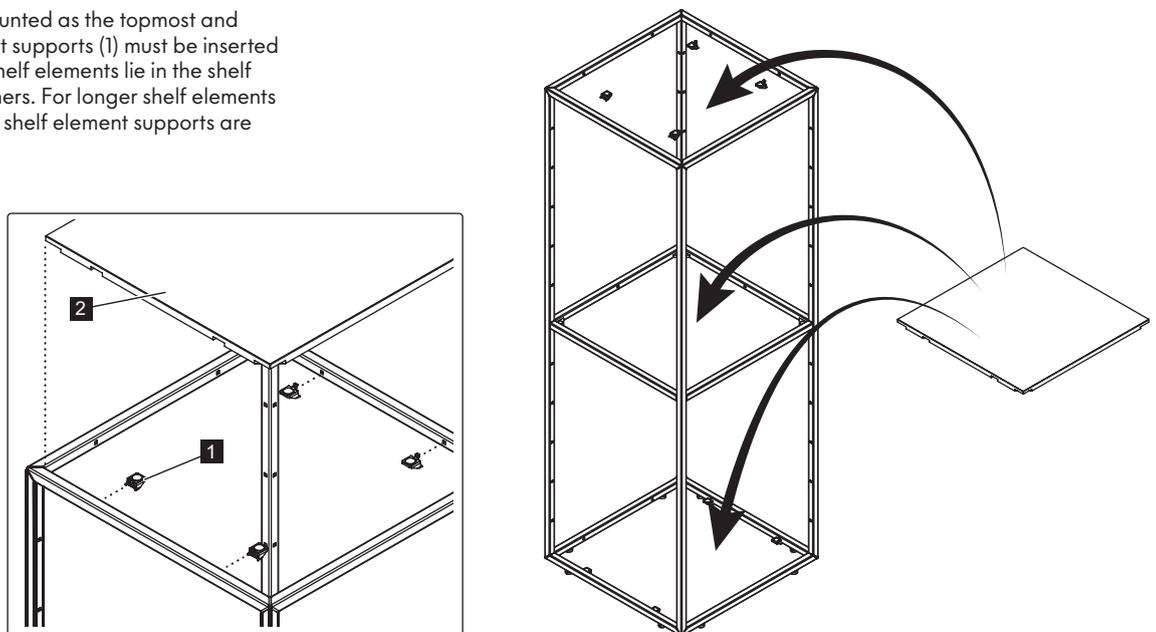
! Please observe the information on the loading values and ensure that the substructure of the wall installation and its fastenings can cope with the expected loads.



Shelf element support use

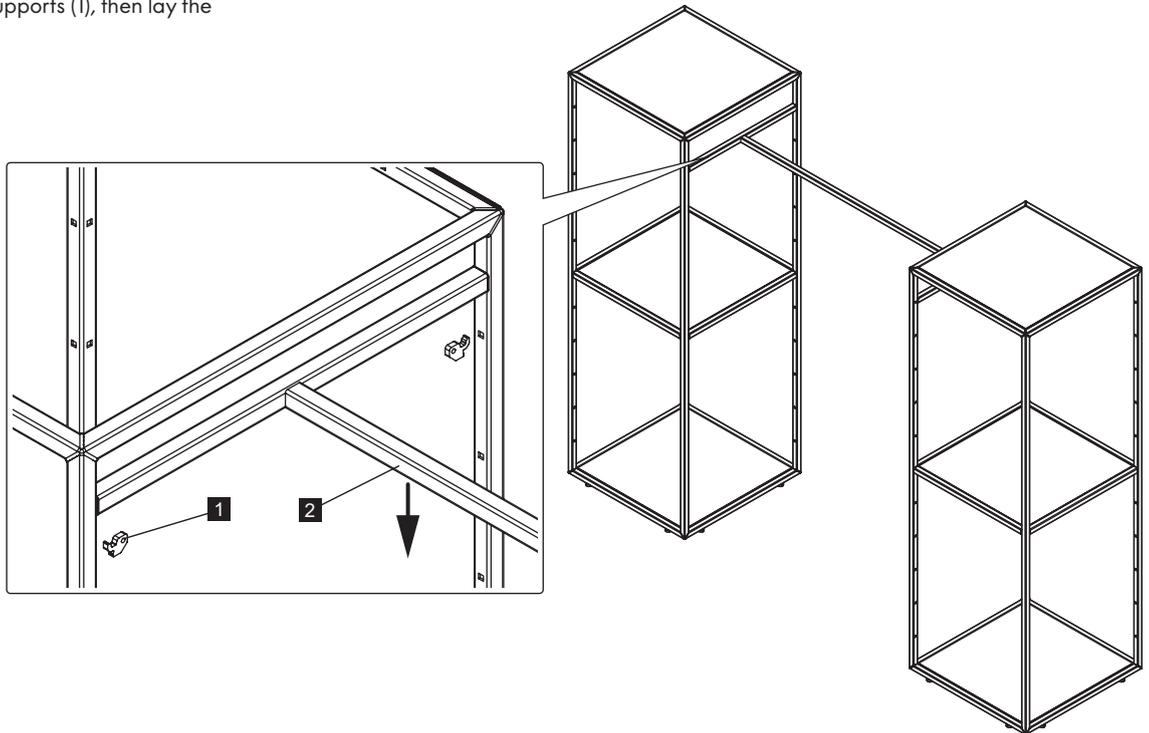
Mount the shelf element supports (1), then lay the shelf elements (2) onto them.

For the shelf elements mounted as the topmost and bottommost, shelf element supports (1) must be inserted into the frame. All other shelf elements lie in the shelf element frame at the corners. For longer shelf elements (from 400mm), additional shelf element supports are required.



Installation of the support rods

Mount the shelf element supports (1), then lay the support rods (2) on them.



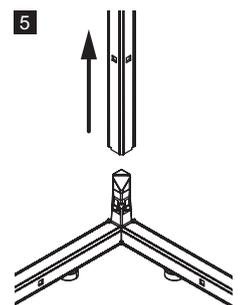
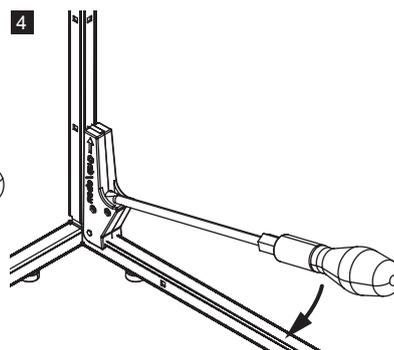
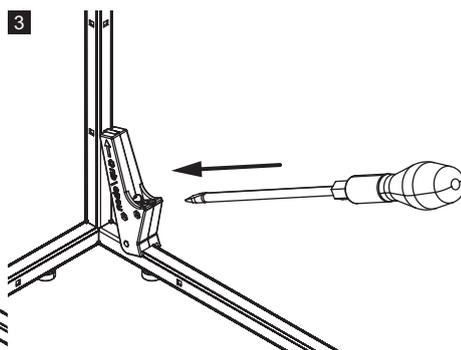
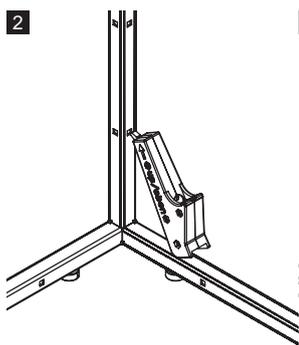
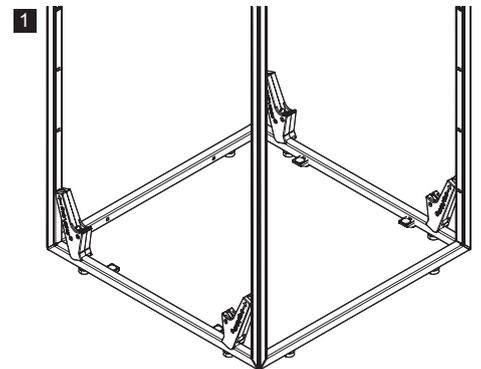
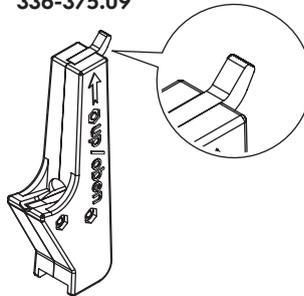
Disassembly of the construction

Place a disassembly tool at each corner of the construction by hand (1), with the nose of the tool inserted into the bottommost hole of the vertical pipe (2).

Feed a screwdriver into the take-up of one of the tools (3) and press down firmly (4); the pipe releases from the connecting piece. Carry out the same procedure with the other tools.

Once all the pipes are released from the connecting corners, the frame can be removed.

336-375.09



Kado 15

Assembly and operating instructions

vitra.

KADO 25

ASSEMBLY AND OPERATING INSTRUCTIONS

Kado 25

Assembly and operating instructions

Assembly dimensions / Layout

All structures of Kado 25 function according to the same principle and can be supplied either unassembled, partly assembled or fully assembled.

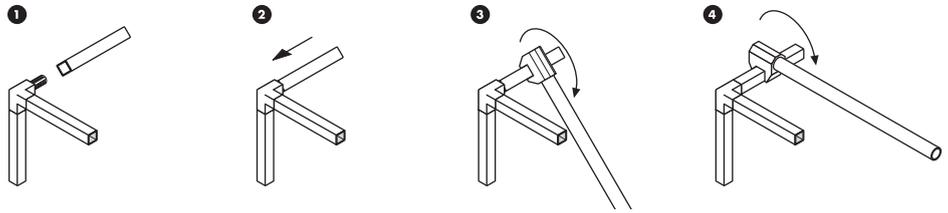
❗ Gondolas with castors only recommended up to a max. height of 1320 mm. Max. height of gondolas 1830 mm.

❗ Please observe the indications concerning weight loading and ensure that the substructure of the wall units/furniture and their fixtures can support the expected loads.
With free-standing furniture, ensure that there is sufficient stability even with the intended merchandise supports.

Assembly instructions

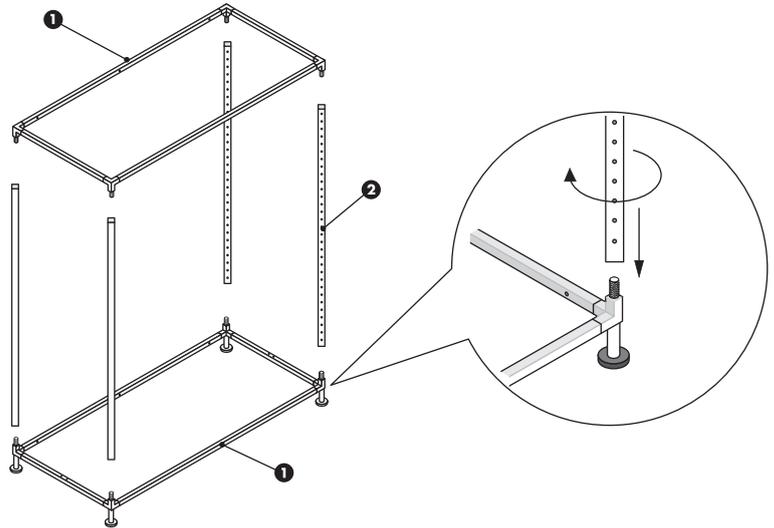
Connecting technique

1. Section turned 45°
2. push over connector to buffer
3. turn 45° with tool 923-025.21
4. and level.

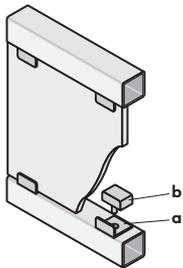


Assembly Kado

1. Assemble horizontal frame on a flat surface.
 - Corner connectors with holes for glides or castors at bottom
 - holes in the shorter connectors face upwards in the lower frame and face downwards in the upper frame.
2. Upright connecting sections (some with pitched slots) to be slotted at 45° between the frames (up to the buffers) and then turned 45° using the assembly tool. The slots face inwards for accessories.



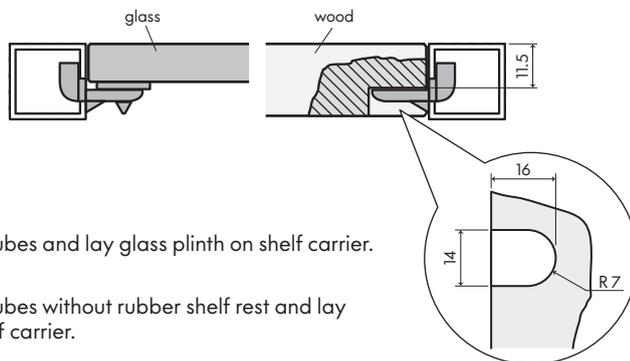
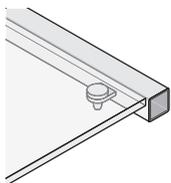
Glass side panels with glass panel retainers



1. Fit all glass panel retainers (a).
2. Put the glass between the clips.
3. Insert locking peg (b) in retaining clip.

For calculating glass panel A x B:
 A = length L - 52 mm
 B = length L - 57 mm

Glass and wooden shelf top and plinth



Glass shelf:

insert shelf carrier into horizontal tubes and lay glass plinth on shelf carrier.

Wooden shelf:

insert shelf carrier into horizontal tubes without rubber shelf rest and lay countersunk wooden plinth on shelf carrier.

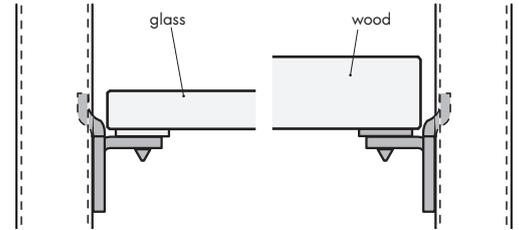
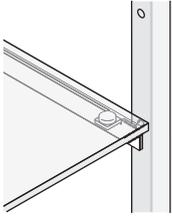
For calculating glass/wooden shelf A x B:
 A = length L - 52 mm
 B = length L - 52 mm

Kado 25

Assembly and operating instructions

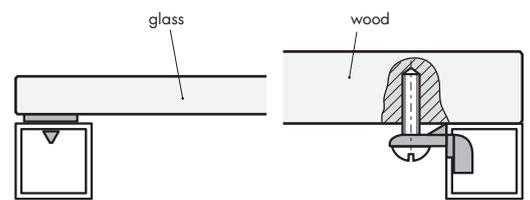
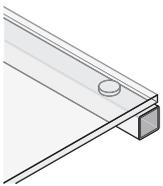
Glass and wooden shelf for vertical tubes

Insert shelf carrier into vertical tubes and lay glass or wooden plinth on shelf carrier.



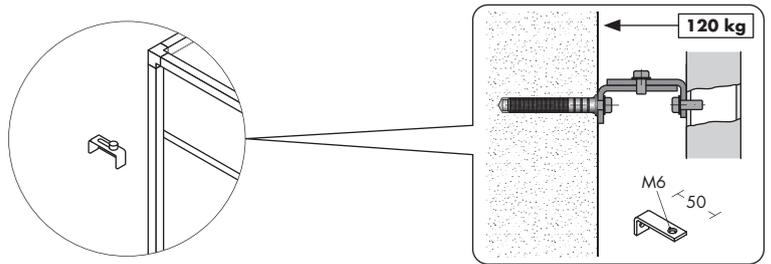
Glass and wooden shelf top

Insert shelf carrier upside down into horizontal tubes (without rubber pads) and secure wooden plinth with wood screws.

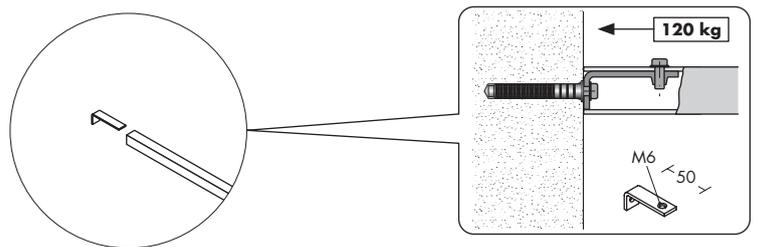


Wall fixing set for wall units

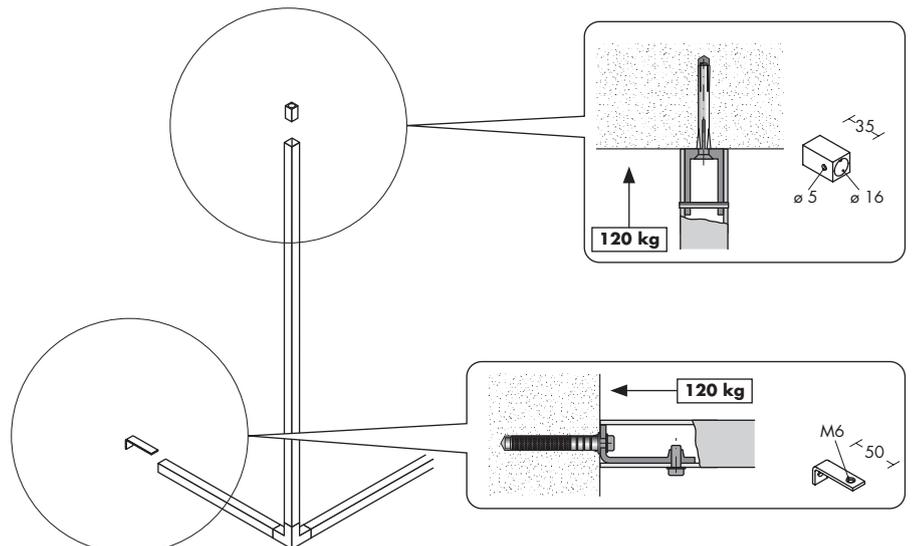
Wall units with a height above 1830 mm must be fixed to the wall: Screw wall fixing set to vertical tubes. Hole must face wall. Fix wall unit to wall.



Wall frame



Wall frame fixed to ceiling



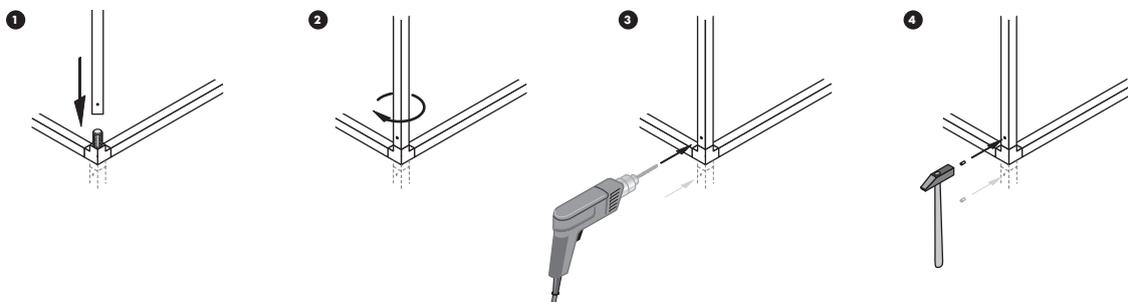
Kado 25

Assembly and operating instructions

Wall frame and structures fixed to ceiling

❗ The fixtures must be selected according to the manufacturer's recommendations and the type of on-site masonry, and if necessary the substructure, must be able to support a tensile force of 120 kg and a radial force of 40 kg per upright.

1. Assemble horizontal frame on a flat surface. \varnothing 7 mm holes in the connectors face inwards
2. Upright connectors to be inserted at 45° between the frames (up to the buffers) and then turned 45° using the assembly tool. The slots for accessories face inwards.
3. Use \varnothing 5 mm drill to drill through hole in connector
4. Use hammer to insert grooved locking pin into drill hole.



❗ All vertical connectors in units fixed to the ceiling must be pinned.

Weight loading

❗ The indicated weight loads are always based on the total weights of the merchandise support and goods. Please also observe the weight loads indicated in our sales documentation.

Max. load

per castor \varnothing 50 mm	40 kg
per castor \varnothing 75 mm	75 kg
per glide \varnothing 50 mm	60 kg
Glass/wooden shelf	25 kg

vitra.

KIMEA P/L

ASSEMBLY AND OPERATING INSTRUCTIONS

Kimea P/L

Assembly and operating instructions



This manual enables safe and efficient handling of the product, "Kimea P/L".

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

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

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

All dimension information in this manual is specified in mm.

Quality assurance

The safety of the Vitra system is tested by the State Trade Agency in Nuremberg (LGA). For non-electrified products, the LGA confirms compliance with all applicable standards and technical regulations by awarding the GS mark.

The safety of electrified products is confirmed by the CE mark.

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.

Copyright

This manual is protected by copyright. Its use is permissible as part of the use of the product. Any use other than this is not permitted without the written consent of the manufacturer.

Our General Terms and Conditions apply for all orders.

1 Safety

1.1 Explanation of symbols

Safety instructions are indicated in this manual as follows.

DANGER

A safety instruction designated in this manner indicates a dangerous situation that will result in death or serious injury if it is not avoided.

WARNING!

A safety instruction designated in this manner indicates a possible dangerous situation that could result in death or serious injury if it is not avoided.

NOTICE

A safety instruction designated in this manner indicates a possible dangerous situation that can result in material damage or environmental damage if it is not avoided.

1.2 Intended use

The product is used exclusively to accommodate merchandise supports on which products are presented, and/or for making power in the low-voltage range available to connected consumers.

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

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.

The content in the chapter "Installation" is provided for persons who execute the installation and the electrical connection (e.g. shopfitter, licensed electrician).

The content in the chapter "Operation" is provided for the end user (e.g. sales person, visual merchandiser).

Misuse

WARNING!

If misused, there is a danger that merchandise supports can be damaged or fall. This can result in injuries and damage to the product.

- > **Only use approved accessories.**
- > **Comply with the maximum permissible load values.**
- > **Do not lean ladders against merchandise supports.**

1.3 Basic dangers

Electric current

DANGER

There is life-threatening danger due to electric shock if live components are touched.

- > **Only have licensed electricians perform tasks on electrical product components.**
- > **Do not operate the product if components are defective.**
- > **Do not place any containers from which liquid can escape on the merchandise supports.**
- > **Keep moisture away from live components.**

Overload

WARNING!

If merchandise supports are overloaded, they can fall and cause injuries.

- > **Do not load merchandise supports over the specified maximum load-bearing capacity.**

2 Product description

2.1 Overview

Kimea P/L enables structures, for holding shelves illuminated with LED lamps, on which products are presented.

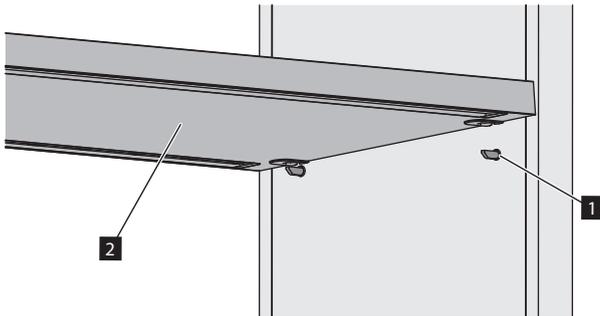


Fig. 1: Kimea P/L

2.2 Brief description

Kimea P/L has an electric element built into the holder (Fig. 1/1) to provide 24 V DC. This enables the use of shelves (Fig. 1/2) with built-in lamps for additional illumination of the products presented on the support.

Holder

The holder is intended for installation in wood. It is built into the side cover of the structure from behind; no further fastening elements are necessary. At least four holders are needed for each shelf.

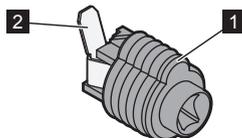


Fig. 2: Holder

When the holder is aligned correctly, the lug (Fig. 2/1) faces upward. The power cable is connected to the male tab (Fig. 2/2).

A holder set consists of 4 or 20 pieces.

2.3 Scope of delivery and accessories

2.3.1 Power supply

The electric element built into the holder is supplied with power by a converter. The converter converts the line voltage from 120–240 V AC to 24 V DC.

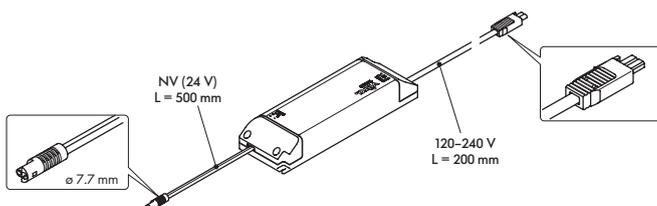


Fig. 3: Converter 24 V

NOTICE! If dimmers are to be used, electronically controlled, low-voltage dimmers must be installed!

2.3.2 Power connection

The converter is connected to the first holder by the power connection.

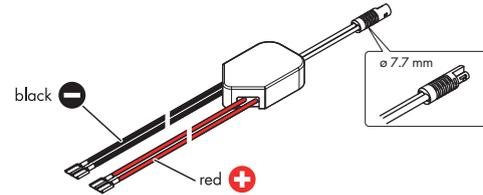


Fig. 4: Power connection

2.3.3 Power cable for holders

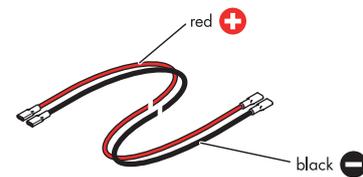


Fig. 5: Power cable for holders

The power cable transfers the power from holder to holder.

Length of power cable = 250 and 450 mm.

Version	Article number
Length 250 mm, 4 piece set	349-925.19
Length 250 mm, 20 piece set	349-926.19
Length 450 mm, 4 piece set	349-923.19
Length 450 mm, 20 piece set	349-924.19

2.3.4 Power cable with terminal

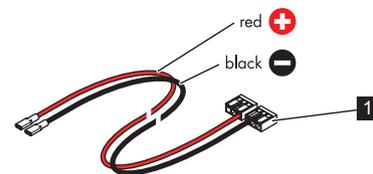


Fig. 6: Power cable with terminal

The power cable transfers the power from the current collector to the LED lamp. At one end of the cables, there is a 3-point terminal (Fig. 6/1).

Length of power cable = 300 mm.

Version	Article number
4 piece set	349-929.19
20 piece set	349-930.19

Kimea P/L

Assembly and operating instructions

2.3.5 Shelf support

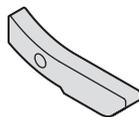


Fig. 7: Shelf support

The shelf support holds shelves and transfers power from the holder to the current collector in the shelf.

Version	Article number
Nickel-plated, 4 piece set	094-368.11
Nickel-plated, 20 piece set	094-369.11

2.3.6 Shelves

Shelves are placement areas made of wood or glass. If you require drawings for producing wooden or glass shelves, contact the manufacturer.

2.3.7 Parts for illuminated wooden shelves

Wooden shelves must be produced in accordance with drawing no. 345-582 or 345-617.

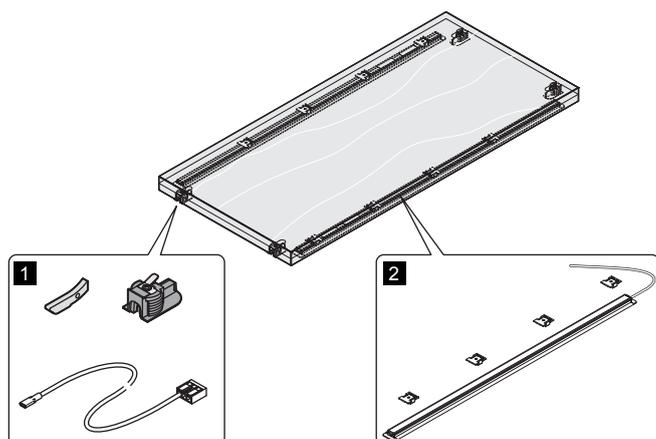


Fig. 8: Components for wooden shelves

Illuminated wooden shelves require additional components. These are:

- Power set with current collectors, shelf supports and cables (Fig. 8/1). See also „Power set“.
- LED lamp (Fig. 8/2). See also „LED lamps“.

Power set

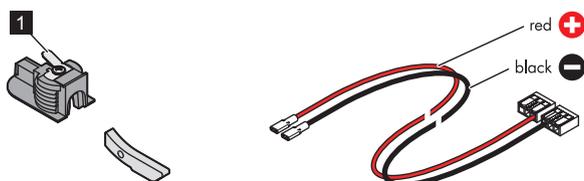


Fig. 9: Power set

The current collector transfers the power from the shelf support to the light cable. The power cable is connected to the male tab (Fig. 9/1). At least one power set of 4 pieces is needed for each shelf.

Version	Article number
White RAL 9016, 4 piece set	349-931.23
Black RAL 9011 P, 4 piece set	349-931.08
Black RAL 7040 P, 4 piece set	349-931.05
White RAL 9016, 20 piece set	349-932.23
Black RAL 9011 P, 20 piece set	349-932.08
Grey RAL 7040 P, 20 piece set	349-932.05

LED lamps

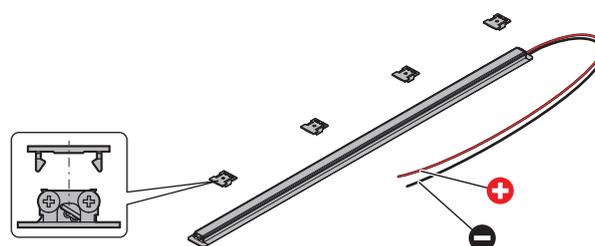


Fig. 10: LED lamp

Version	Article number
Length 580 mm (6 W)	349-560.05
Length 890 mm (10 W)	349-561.05
Length 1140 mm (13 W)	349-562.05

The length of each connecting cable is longer than the length of the LED lamp. The cables for the LED lamps can be shortened, if necessary.

2.3.8 Hanging rail

The hanging rail is attached beneath the wooden shelf.

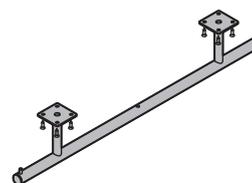


Fig. 11: Hanging rail

The hanging rail is available in fixed lengths of 603 mm and 1228 mm.

Enclosed with the delivery is a fixing set consisting of 8 countersunk wood screws 4 x 25 mm.

Kimea P/L

Assembly and operating instructions

2.3.9 Front arm rail for hanging rail

The front arm rail is inserted into the centre of the hanging rail and is secured to prevent twisting.

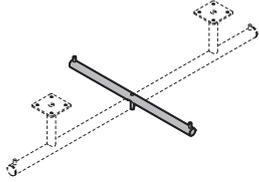


Fig. 12: Front arm rail

2.3.10 Glass shelf frame with LED lighting

Two LED lamps are built into the frame.

The delivery includes a shelf support set of 4 pieces.

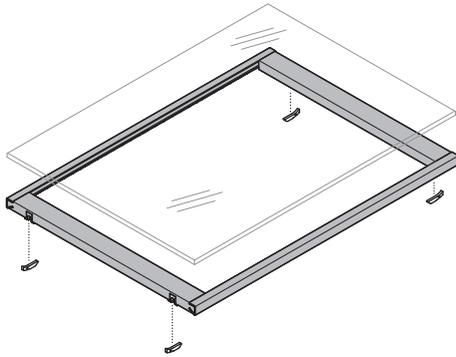


Fig. 13: Glass shelf frame with LED lighting

The glass is placed on the frame, it must be prepared in accordance with drawing no. 345-671; contact the manufacturer for the drawing.

Version	Article number
Length 623 mm (14 W)	094-376.85
Length 998 mm (22 W)	094-377.85
Length 1248 mm (28 W)	094-378.85

3 Installation

⚠ WARNING!

If the installation is not executed properly or if the substrate cannot accommodate the necessary loads, the system can fail. There is danger of injury due to falling products and merchandise supports.

- > **Follow and comply with all of the installation instructions below.**
- > **Ensure that the substrate is designed to accommodate the expected loads.**

3.1 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.

3.2 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%

3.3 Requirements for the installation location

The installation location must meet the following requirements:

- The installation location must be dry. Installation outdoors is prohibited.

Kimea P/L

Assembly and operating instructions

- The substrate (walls, columns, etc.) must be configured for the loads that will be supported, and must be capable of accommodating these loads.

3.4 Installing and connecting holders

3.4.1 Installing the holders

The holders can only be installed in wooden panels with a thickness of between 16 and 19 mm. (Fig. 14).

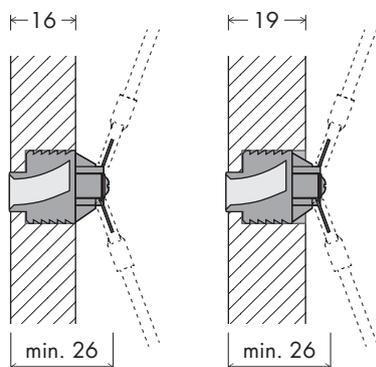


Fig. 14: Thickness of wooden panels

During planning, note that the space required for the installed holder is at least 26 mm.

Preparing for installation

For the holders to fit properly, the wooden panels must be prepared first.

The illustration below shows the contour of the milling pattern that is required in the wooden panels for installation. Have a specialist company prepare the milling pattern (Fig. 15).

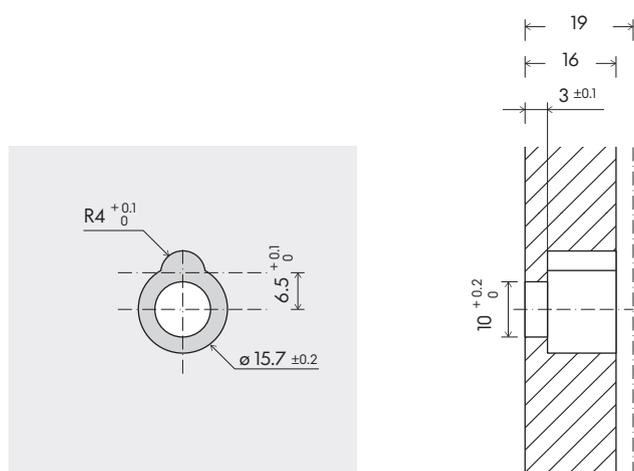


Fig. 15: Milling dimensions in wooden panels in mm

3.4.2 Holder installation

NOTICE

If this procedure is not performed correctly, the holder and/or the visible front of the panels may be damaged.

> **Only drive in the holder using assembly tool 094-408.09.**

1. Place the panel with its front side on a level, hard work surface. The holders are installed in the panel from behind.
2. Insert the holder into the assembly tool (Fig. 16/1); only one position is possible. A magnet in the tool prevents the holder from falling out.

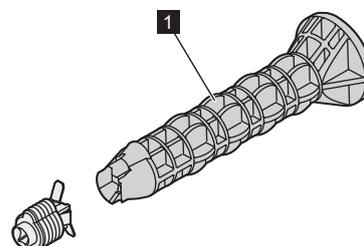


Fig. 16: Inserting the holder into the assembly tool

3. Press the holder with the tool vertically into the cutout (Fig. 17/A).
4. **NOTICE! Avoid tilting.** Strike the assembly tool with a rubber hammer (Fig. 17/B). To avoid tilting of the holder, you must keep the tool vertical while driving it in.
 - The holder is fastened securely.

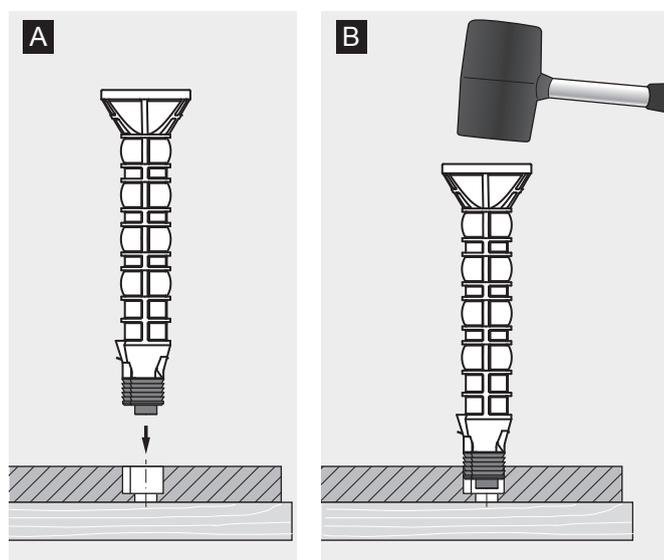


Fig. 17: Positioning (A) and pressing in (B) the holder

3.4.3 Connecting holders

Preparing the cables

NOTICE! To avoid sparking, the holders must be wired with the power off. During commissioning, make sure that the polarity is correct. If the polarity is incorrect, the LED lamps may be damaged.

The holders installed in a vertical line must be connected in series.

NOTICE! A maximum of 10 holders may be connected in series. If more holders are required, a new current circuit is necessary.

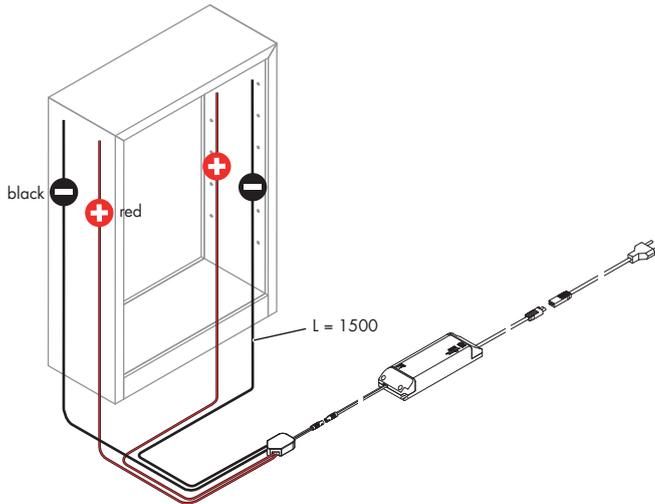


Fig. 18: Wiring

For details, see Fig. 29 on page 140.

Ensure female push-on terminals (Fig. 19/1) are firmly fitted over male tabs (Fig. 19/2) to prevent the cable from slipping later.

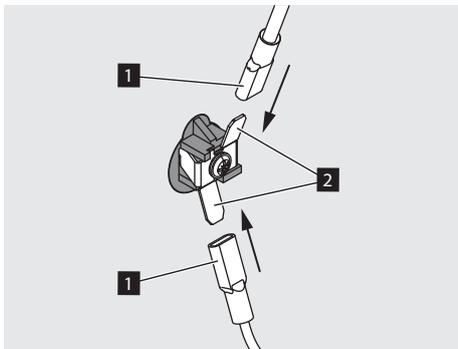


Fig. 19: Attaching the cable to holders

3.5 Installing and connecting the converter

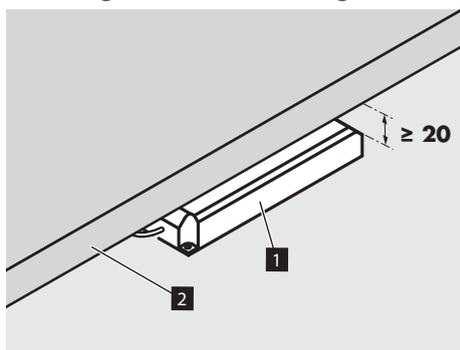


Fig. 20: Distance between converter and panel

The converter heats up in operation. To dissipate the heat that occurs, a distance of at least 20 mm must be maintained between the converter (Fig. 20/1) and the cladding panel (Fig. 20/2).

The converter must be accessible at all times.

Mounting the original converter

1. Select screws suitable for the substrate.
2. Attach the converter to an easily accessible position.
3. **NOTICE! Danger of overheating.** Ensure that a distance of 20 mm is maintained between converter and cladding panel.

⚠ DANGER

Life-threatening danger due to electric shock if an unsuitable converter is used and/or if the connection is faulty.

- > **Only a licensed electrician is permitted to establish the connection.**
- > **Comply with the specification for permissible converters.**
- > **Only use converters that are protected against overheating.**

3.6 Establishing the power supply

Once the converter and holders are installed and connected, the power supply can be established.

1. **⚠ DANGER! Life-threatening danger due to improper connection.** Ensure that the connected loads of the power outlet conform to the permissible connected loads.
2. Stow all cables and ensure that they are not kinked or jammed.
3. Plug the power plug of the converter into the power outlet.

3.7 Disconnecting the power supply

Proceed as follows to de-energize the system:

- Pull the power plug for the converter out of the power outlet.

3.8 Producing wooden shelves

Wooden shelves must be produced by the customer. Production drawings of shelves are available for downloading on www.vitra.com or can be received on request.

- Drawing number: 345-617 for lighting on one side
- Drawing number: 345-582 for lighting on both sides

3.9 Preparing glass for shelf frames

The glass for the glass shelf frame can either be procured from Vitra or be produced by the customer.

Production drawings of shelves are available for downloading on www.vitra.com or can be received on request.

- Drawing number (6 mm): 345-671

3.10 Installation principle

3.10.1 Wooden shelf

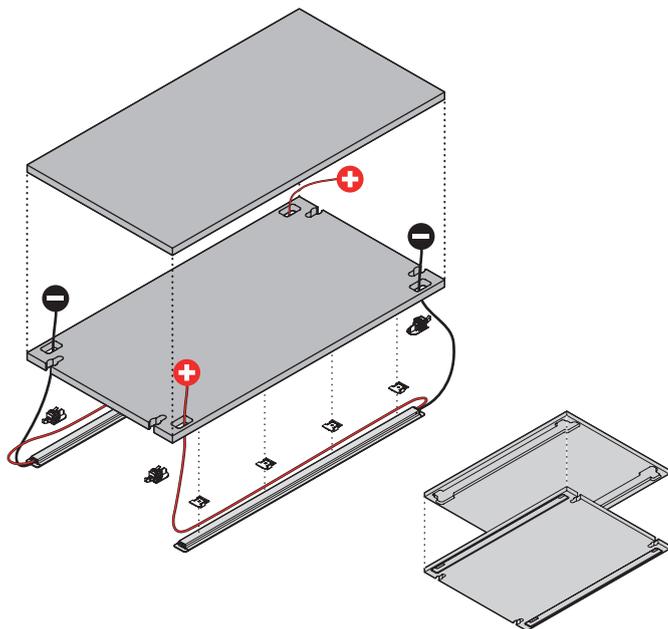


Fig. 21: Installation principle wooden shelf

3.10.2 Side cover

To have the cabling accessible all the time, the side cover (Fig. 22/1) has to be removable. Appropriate hook-in connectors (Fig. 22/2) are available, for example, from Häfele or Knapp.

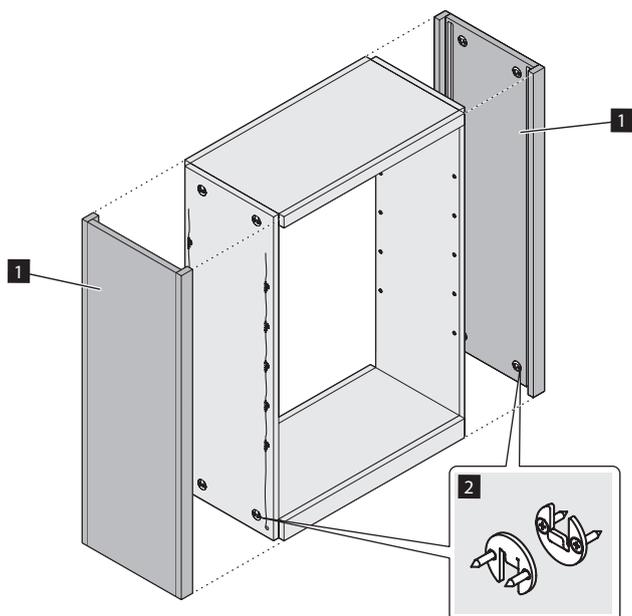


Fig. 22: Installation principle side cover

4 Operation

⚠ WARNING!

If the maximum permissible load of the merchandise support is exceeded, merchandise supports and/or system can be damaged and cause injuries.

> Comply with the maximum load values of the individual merchandise supports.

4.1 Inserting a shelf

When using shelves, make sure that all four shelf supports that hold the shelf are inserted into holders at the same height. To insert shelf supports, proceed as follows.

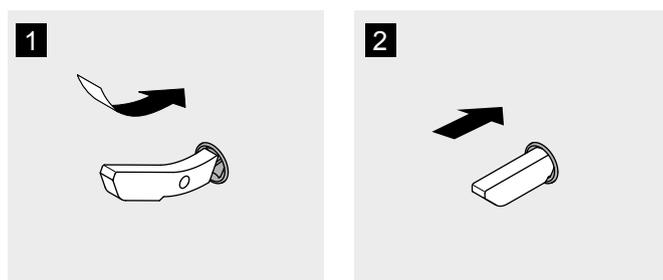


Fig. 23: Inserting a shelf support

1. Hold the shelf support at a slight upward angle and insert it into the holder (Fig. 23/1).
2. Make sure that the shelf support is inserted into the holder as far as it will go (Fig. 23/2).
 - ➔ The shelf support is fastened securely.
3. Insert the other shelf supports as described in points 1 and 2.
4. **NOTICE! Danger of short-circuit.** Make sure that there is no electrical contact between shelf supports (Fig. 24/2) positioned next to each other.

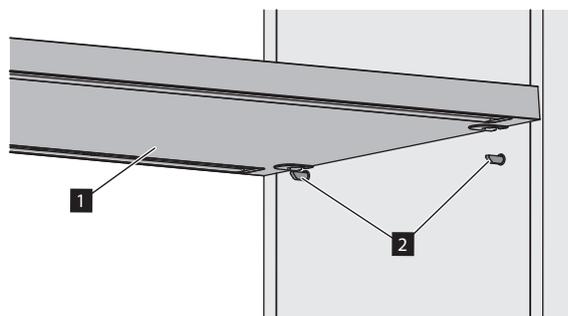


Fig. 24: Placing a shelf on shelf supports

5. Place the shelf (Fig. 24/1) on all 4 shelf supports (Fig. 24/2).
6. Make sure that the shelf supports lock into the current collector on the shelf.
 - ➔ The shelf is now fastened securely and the shelf's function is guaranteed.

Kimea P/L

Assembly and operating instructions

- Place the merchandise uniformly on the shelf and ensure that the maximum load is not exceeded. All load values apply including the weight of the shelf.

4.2 Removing a shelf

To remove shelves, proceed as follows:

- Remove merchandise from the shelf.
- Remove the shelf from the shelf supports.



Fig. 25: Removing a shelf support

- Lift the shelf support slightly at the front and pull it out of the holder (Fig. 25).

4.3 Cleaning

NOTICE

If cleaned improperly, there is a risk that the product or parts of the product will be damaged.

- > **Do not use sharp objects for cleaning.**
- > **Use non-aggressive, non-abrasive cleaning agents (pH value 5-8).**
- > **Before cleaning the holders, disconnect them from the power supply.**
- > **Do not use liquid to clean the holders.**

Over time, dust and dirt will settle on the shelves.

In order that this does not dirty the presented merchandise, the shelves must be cleaned regularly.

- Remove merchandise from the shelf.
- Remove the shelf (see chapter 4.2 on page 138).
- Carefully clean the holders with a soft, dry cloth. Do not use sharp objects.
- If there are particles of dirt in the holder, disconnect the power supply and carefully remove the dirt with a vacuum cleaner.
- Clean the shelves and shelf supports with a soft (damp, if necessary) cloth.
- Wait for the shelves and shelf supports to dry.
- Insert the shelf again (see chapter 4.1 on page 137).

4.4 Fault correction

The following table cites possible causes and corrective measures if there is a fault.

Fault	Cause	Remedy
Lamp does not light up.	Shelves not inserted correctly.	Remove shelves and insert again.
	Holder very dirty.	Clean holder.
	Contact springs are damaged.	Remove shelves, check contact springs and replace if necessary.
	Converter overheating.	Ensure sufficient heat dissipation and allow the converter to cool.
	Insufficient converter power.	Check converter and use a more powerful converter if necessary.
	Converter is defective.	Check converter and replace if necessary.
	Power distribution module is defective (if present).	Check power distribution module and replace if necessary.
	Cable break.	Check cable and replace if necessary.

5 Dismantling and disposal

5.1 Dismantling

Proceed as follows to dismantle the electrified holders:

1. Remove merchandise from the shelves.
2. Remove all the shelves (see chapter 4.2 on page 138).
3. **⚠ DANGER! Life-threatening danger due to electric shock!**
Pull the power plug out of the power outlet.
4. Dismount converter and power distribution module (if present).
5. Pull the cable out of the terminals on the holders.

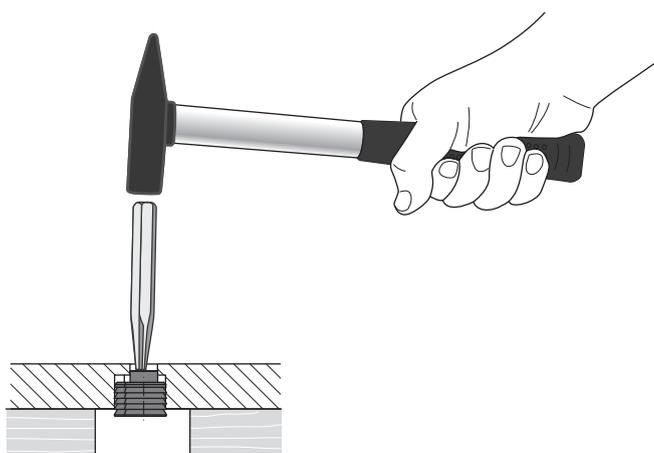


Fig. 26: Removing a holder

6. Use a hammer and a tapered punch to knock out the holder from the front.
The holder cannot be reused, it must be replaced.

5.2 Disposal

NOTICE

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

- > **Properly dispose of product components, or have them disposed of by specialized disposal companies.**
- > **Recycle components that can be recycled.**

The Kimea P/L product is made of steel (shelf support) and plastic (holder).

- Recycle or scrap steel.
- Recycle plastic parts.
- Have an approved specialized disposal company dispose of electrical and electronic components.
- Dispose of other components according to their material characteristics.

6 Technical data

6.1 Dimensions

Holder dimensions

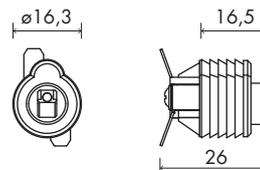


Fig. 27: Holder dimensions

Converter dimensions, power-dependent

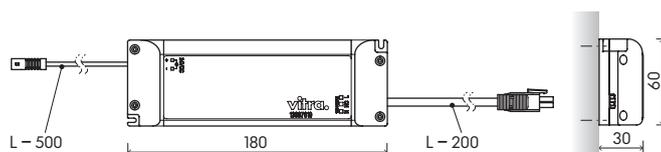


Fig. 28: Converter dimensions

6.2 Connected loads

General

Specification	Value	Unit
Operating voltage	120–240	V
Frequency	50–60	Hz
Nominal voltage (SELV)	24	V
Nominal current at power connection, maximum	6	A
Mains side protection class; converter 10–150 W	II	
Maximum housing temperature (converter)	90	°

6.3 Load values

Holder

Specification	Value	Unit
Maximum load applies when using with a merchandise support, e.g. a hanging hook from Mono 6	1	kg

Maximum load on shelves

The maximum load on each shelf includes the shelf's own weight and only applies if the approved shelf supports are used (at least 4 pcs. are required per shelf).

Specification	Value	Unit
Load, maximum	40	kg

6.4 Panel thickness

Specification	Value	Unit
Thickness of wooden panel, minimum	16	mm
Thickness of wooden panel, maximum	19	mm

6.5 Structural principle

6.5.1 Structural principle of unit

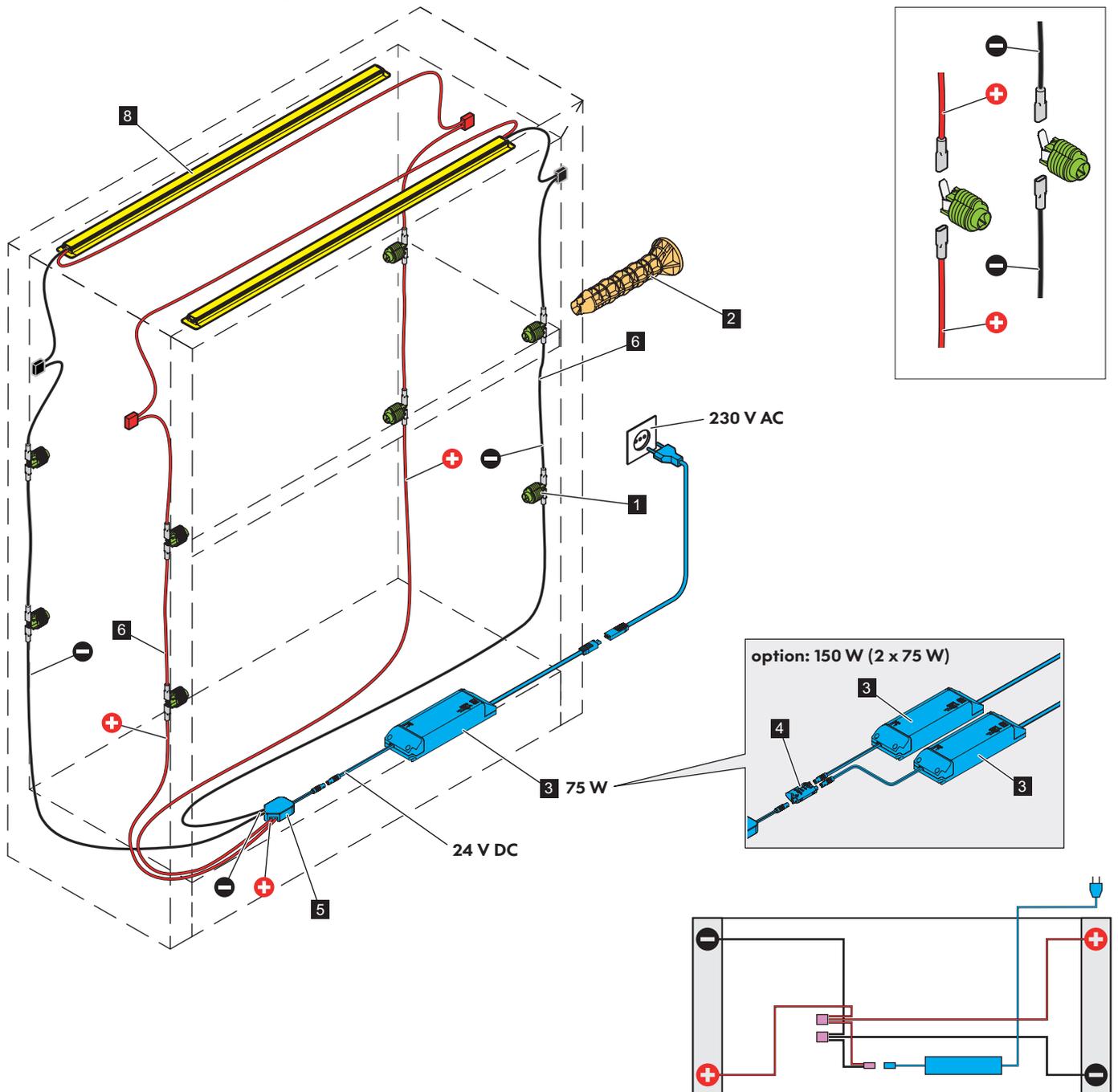


Fig. 29: Structural principle of the furniture

6.5.2 Structural principle of wooden shelf

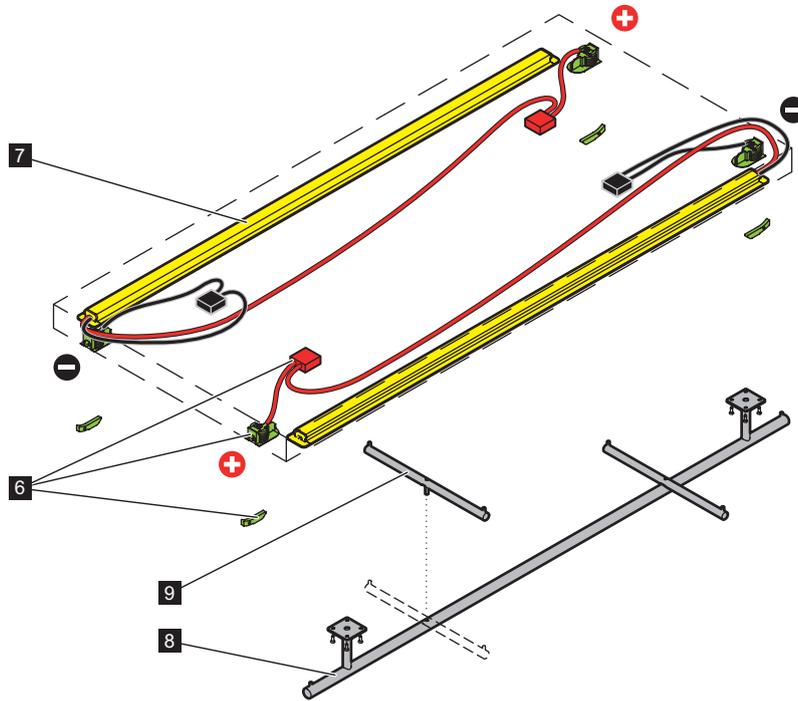


Fig. 30: Structural principle of the wooden shelf

Kimea P/L components

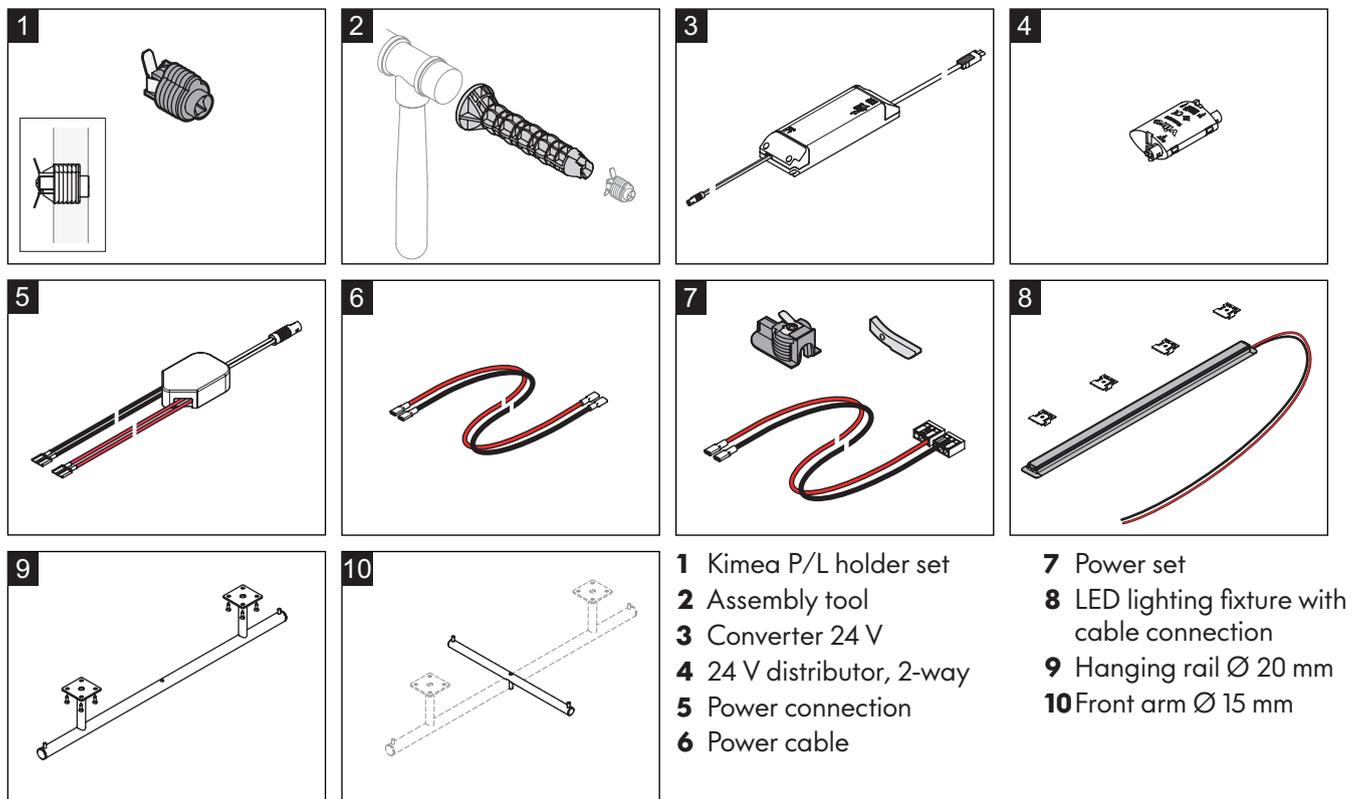


Fig. 31: Kimea P/L components

Kimea P/L

Assembly and operating instructions

vitra.

vitra.

ICONSFLAT

ASSEMBLY AND OPERATING INSTRUCTIONS

Iconsflat

Assembly and operating instructions

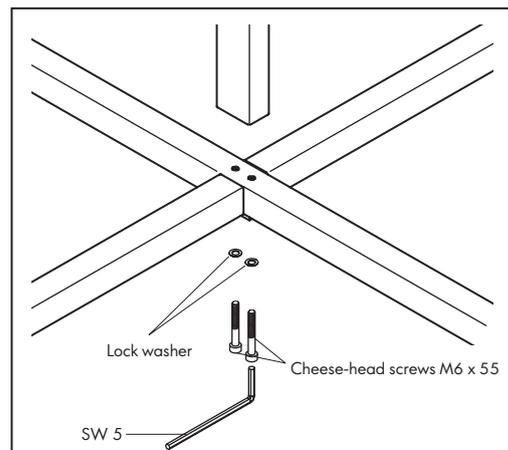
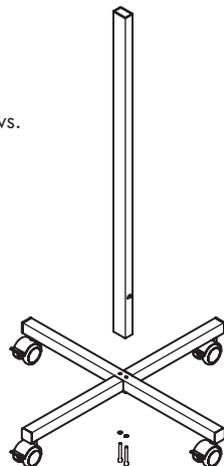
Assembly dimensions / Layout

Please observe the load limits indicated weight loading.
Avoid extreme, uneven loading of the stands as this causes instability.

Assembly instructions

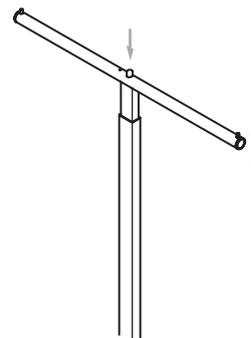
! Please use all of the supplied parts during assembly.

Connect base and vertical pipe using the cheese head screws.



Instructions on use/maintenance

Press the push button in order to adjust the height of extension frames and arms.
Make sure no weight is applied to the extension frame or arm during this process.



Weight loading

! The indicated weight loads are always based on the total weights of the merchandise support and goods.

Please observe that max. weight loading decreases as the merchandise support increases in length.

Please observe that the inclination of the merchandise support changes with an increase in load. Different weights on the merchandise supports produce an uneven overall appearance of the goods display.

Max. load

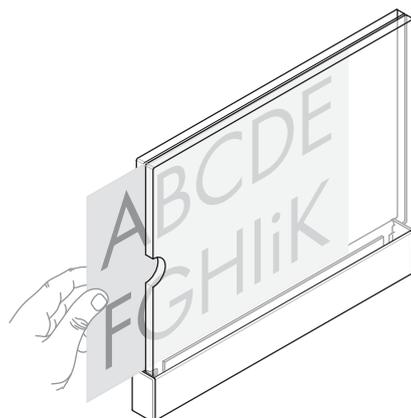
Single stand with T-extension		35 kg
Waterfall stand	per arm	25 kg
Rail stand		90 kg
Double rail stand	per rail	90 kg
Cross stand	per arm	25 kg

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LABEL

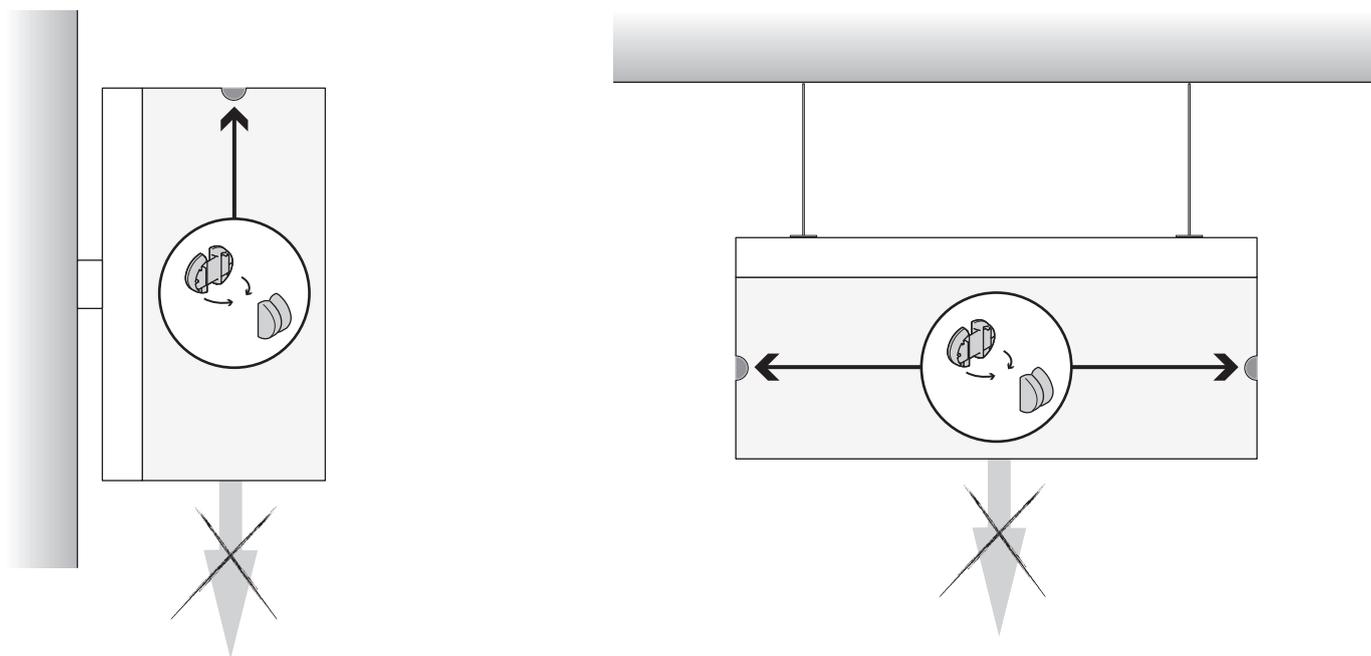
ASSEMBLY AND OPERATING INSTRUCTIONS

Simple insertion and removal of the poster



Universal magnetic holder

The universal magnetic holder prevents posters from falling out, e.g. when hung from the ceiling or used as a banner.



Invisible Design.

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