EPS
SYSTEMS

EPS.LUMI-ADD

Technical documentation

07.2022

Overview

Version: 07.2022

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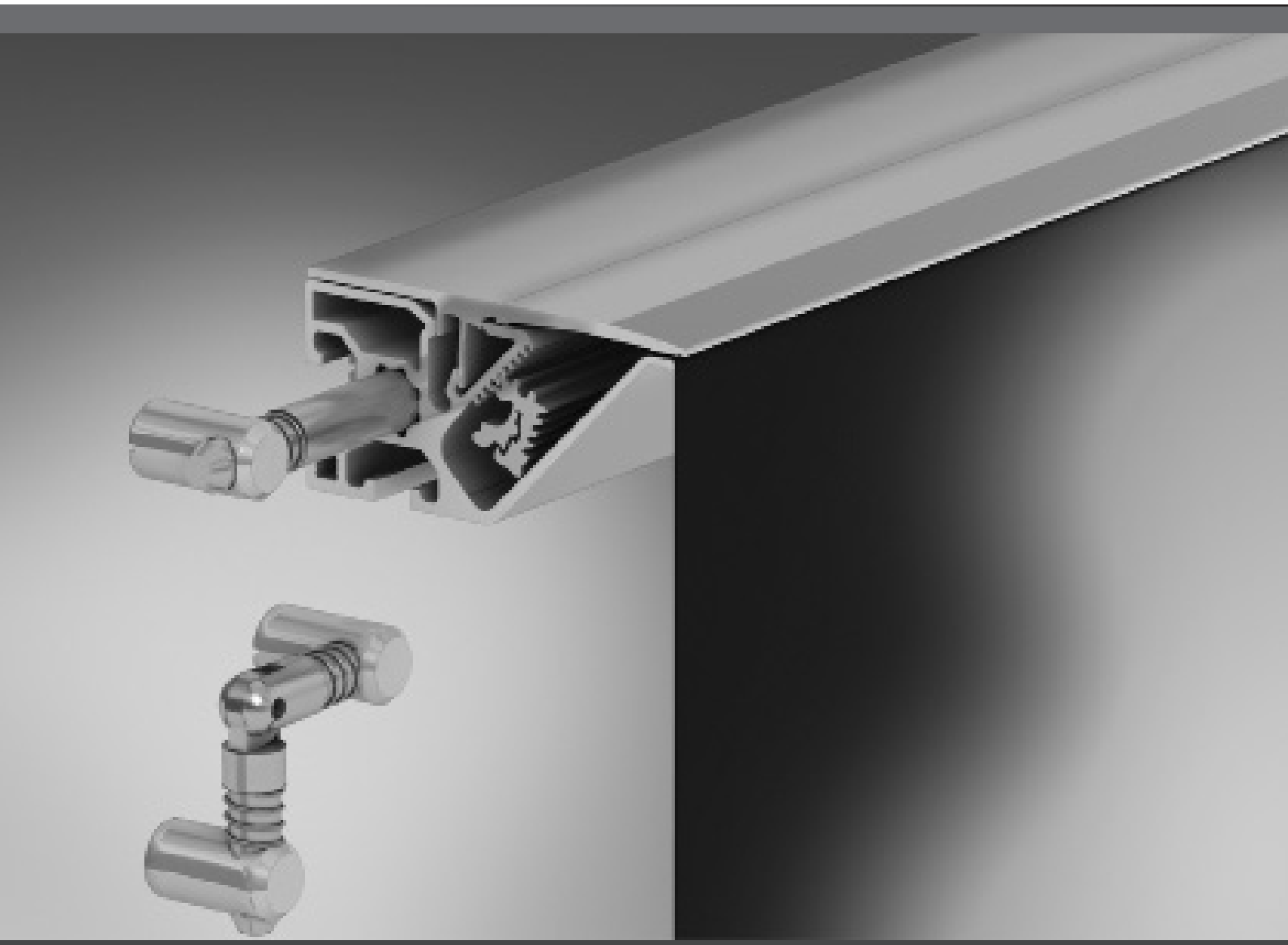
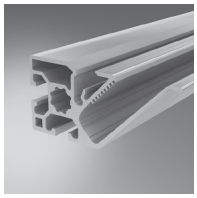


Basic knowledge
Fabric tensioning

System description Main body JR

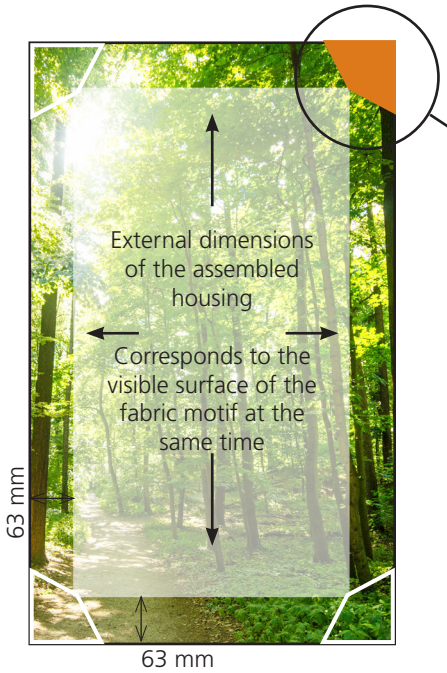
The front side of all of the profiles has a frameless design, meaning that the motif can run right up to the outer edge of the profile.

The fabric is clamped and unclamped at the side.

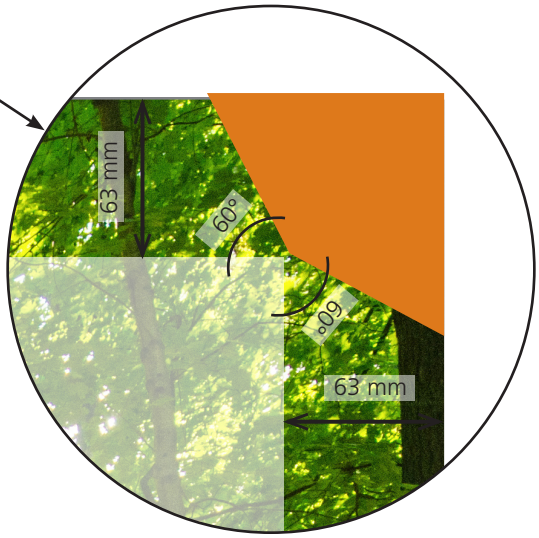


Fabric allowance and fabric cutting Main body JR

Please note the range of backlit fabrics on offer. We gladly assist you in selecting the fabric for your project.



Add 63 mm to the external dimensions of the housing.



Remove the orange area of the fabric.

The mass per unit area of a PVC coated polyester fabric should be at least 550 grams/square metre. In the event of a lower mass per unit area, the edge may need to be reinforced because the flex holder does not grip.

For formats with a length > 4 m, we recommend cutting the precise fabric allowance on site when in a half-tensioned state and them clamping the flex holders into place since temperature differences may influence the size of the fabric. If the fabric is still too long, release the flex holders with the flex holder pliers and cut the fabric down again.

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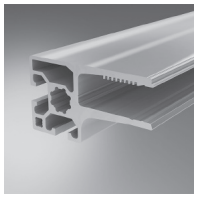
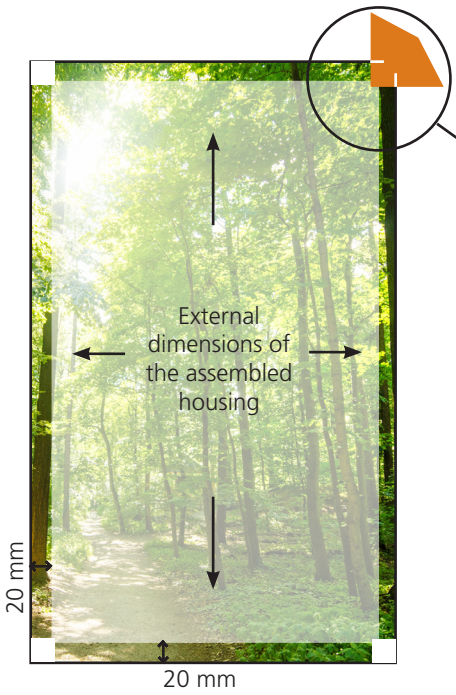
System description Main body G

The profile can be fitted from the front and is particularly suited to installation in recesses.

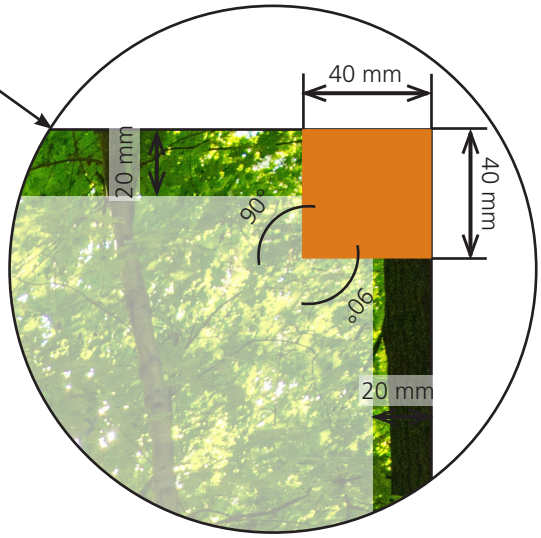


Fabric allowance and fabric cutting Main body G

Please note the range of backlit fabrics on offer. We gladly assist you in selecting the fabric for your project.



Add 20 mm to the external dimensions of the housing.



Remove the orange area of the fabric.

The mass per unit area of a PVC coated polyester fabric should be at least 550 grams/square metre. In the event of a lower mass per unit area, the edge may need to be reinforced because the flex holder does not grip.

For formats with a length > 4 m, we recommend cutting the precise fabric allowance on site when in a half-tensioned state and them clamping the flex holders into place since temperature differences may influence the size of the fabric. If the fabric is still too long, release the flex holders with the flex holder pliers and cut the fabric down again.

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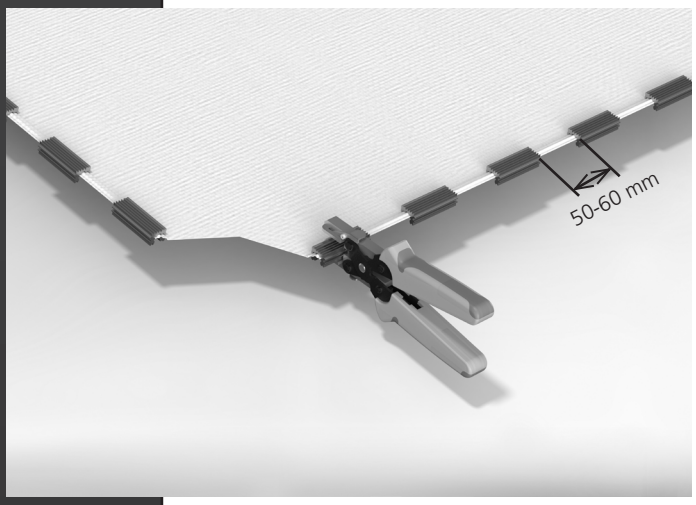
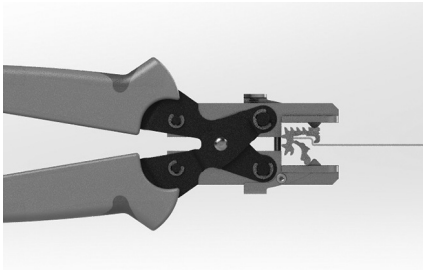
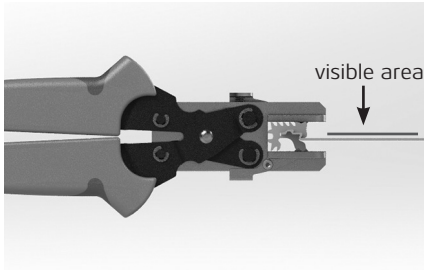
Λttachement of the flex holders



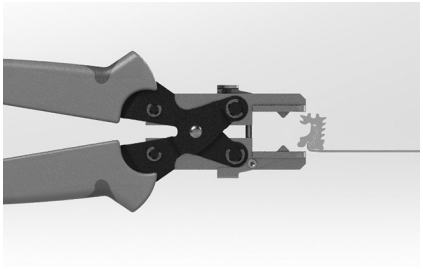
Starting from the corner of the fabric, the flex holders are applied with gaps of 50 - 60 mm between them. In order to achieve optimum tension: the larger the fabric area, the smaller the gaps between the holders.

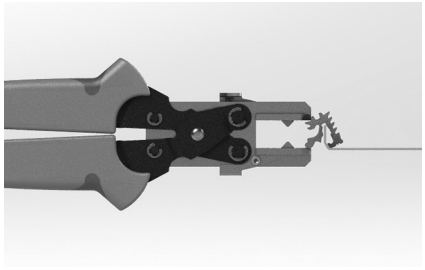
Using the flex holder pliers, compress the flex holder on the fabric until it engages perceptibly. Important: The flex holder must, as shown, have the finely toothed side facing the visible area of the fabric when clamping.



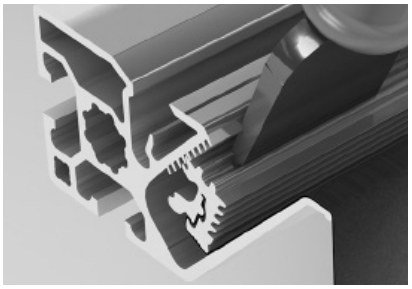


To open the flex holder, the clamping lug of the flex holder must be bent open in the opposite direction.





In order to be able to clamp the fabric correctly, the flex holder is folded once in the direction of the visible area and then inserted in the clamping channel of the profile!



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Tensioning the fabric

When installing PVC coated fabric a minimum ambient temperature of 8° Celsius should be ensured. In the event of lower temperatures, the fabric may buckle or be damaged in other ways. For small and medium formats, do not tension the fabric too firmly.

For formats with a length > 4 m, we recommend cutting the precise fabric allowance on site when in a half-tensioned state and them clamping the flex holders into place since temperature differences may influence the size of the fabric. If the fabric is still too long, release the flex holders with the flex holder pliers and cut the fabric down again.

Do not equip the frames with fabric when they are lying down since the fabric sags as a result of its own weight and you will thus have difficulties engaging the flex holders in the LUMI profile. In order to ensure optimum tensioning, always ensure the frame is upright.

Insert the first three flex holders on the sides and the top edge and engage into the first or second tooth of the profile. When inserting each flex holder pull the fabric firmly away from the starting point in order to prevent wrinkles.

To finish the top row, insert the first flex holder on the opposite side and engage.

Finish inserting the side flex holders and engage into the first or second tooth.

Insert the bottom flex holders and engage into the first or second tooth.
Only when this step is completed may you start actually tensioning using tensioning tools.

Use a tensioning fastener to push the flex holders on the left and right deeper into the profile and thus to tension the flex.

Then push the flex holders along the top and bottom edges deeper into the profile. If necessary, go round all flex holders again and tension further.

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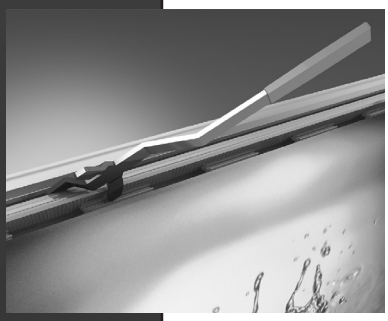
Tensioning of the fabric

Minimum tensioning depth of the flex holder
In order to ensure that the fabric is provided with optimum and secure tension when you have completed tensioning, the flex holders should be engaged in the middle section of the toothing of the tensioning profile.

The fabric can be tensioned in two ways:

1. With the tensioning tool



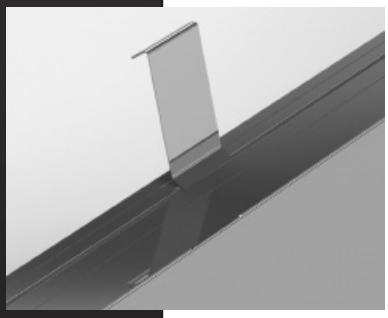
Insert the nipple at the centre tip of the tensioning tool into the profile groove above the tensioning channel. Press down the left or right tip of the tensioning tool to engage the flex holder in the teeth of the tensioning channel and tension the fabric. Then seal the tensioning channel with the cover profile and use screws to prevent it from springing off unintentionally.

Important: The tensioning tool cannot be used with LUMI GRIP profiles.

2. Tensioning with flex holder fastener and rubber hammer

In order to securely tension the fabric, apply the flex holder fastener like a chisel to the flex holder and use the mallet to drive it deeper into the profile. For small and medium formats, do not tension the fabric too firmly.
Then seal the tensioning channel with the cover profile and use screws to prevent it from springing off unintentionally.

Releasing the fabric



The cover profile can be removed from the profile using the profile remover. To release the flex holder, use a wide screwdriver to lever the flex holder from the tensioning profile, thus disengaging it and allowing it to be removed from the tensioning profile along with the fabric.

IMPORTANT NOTE:
When using black or dark fabrics, as well as those where the entire surface has dark print or lettering, the heat generated as a result of direct sunlight may cause wrinkles to appear.

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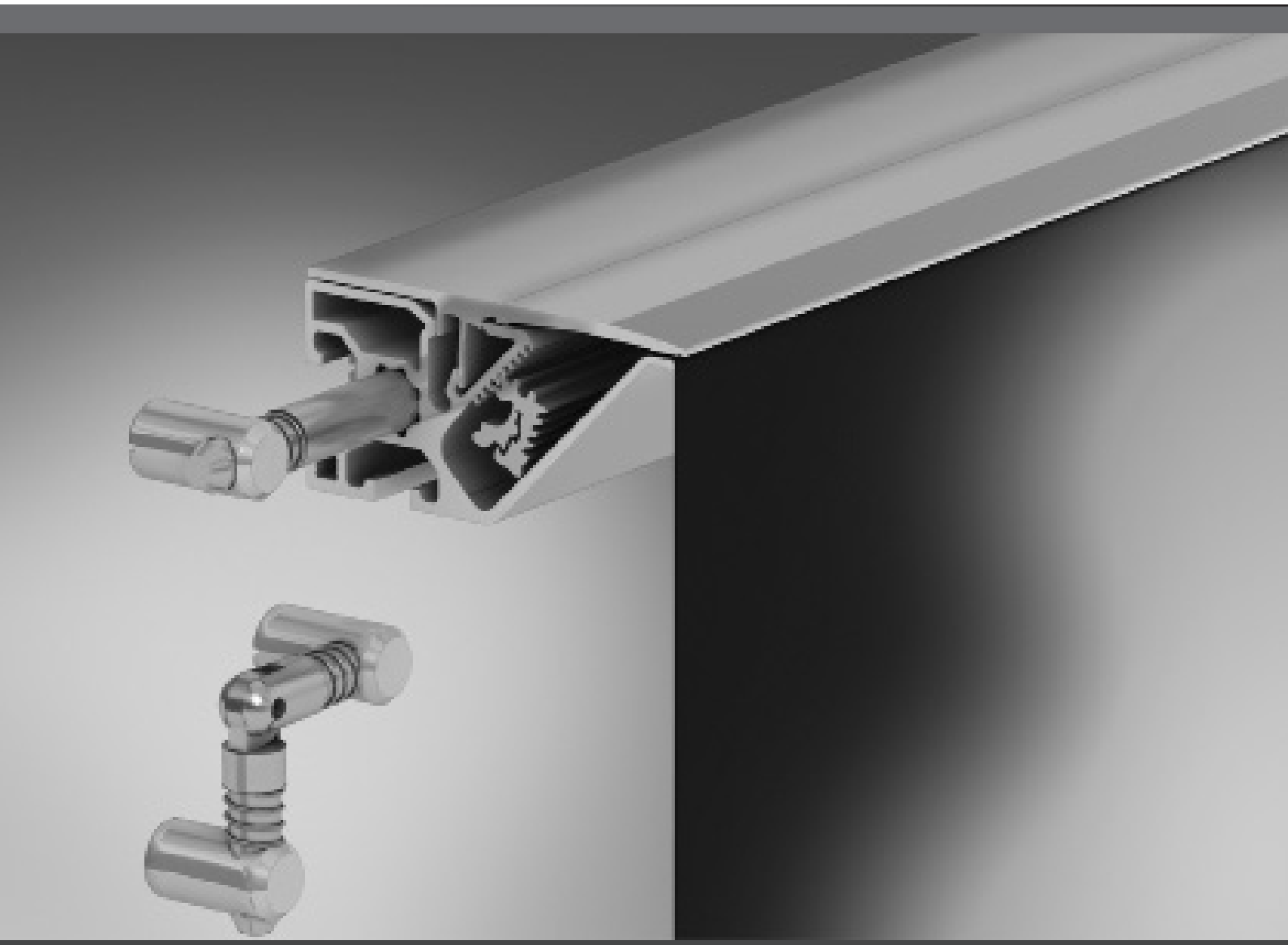
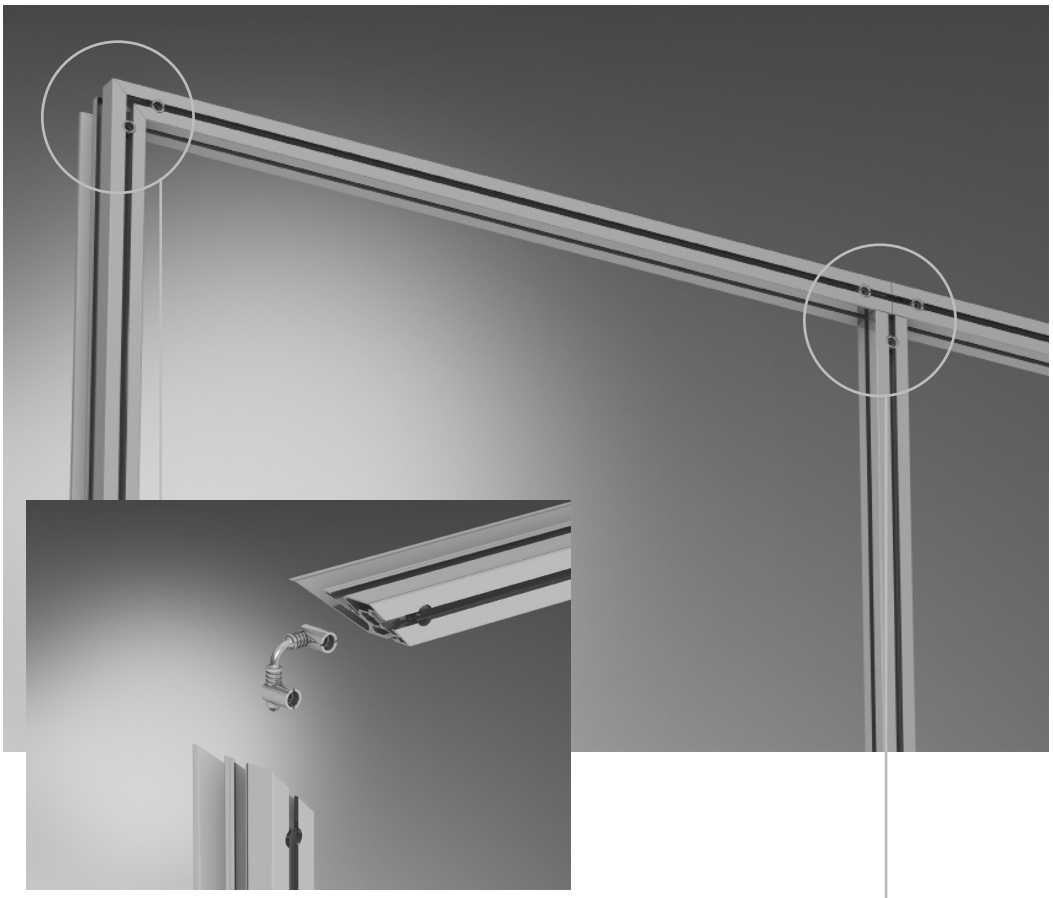


Frame assembly

Frame assembly

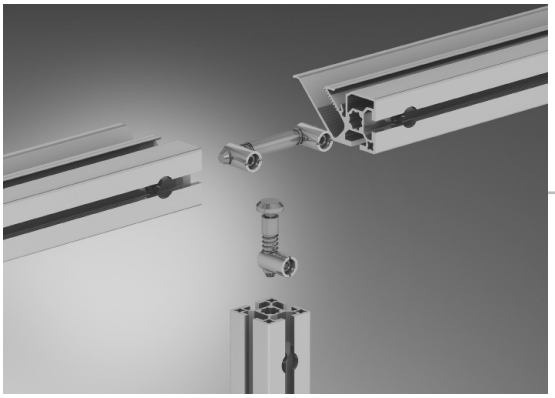
The following assembling instruction shows the profile assembling using the example of the Main body JR.

Please note:
- Fabric allowance circumferential 63 mm (JR) and 20 mm (G)
- Λlways secure the cover profile with screws
- Special construction possible through variable connectors (page 12)



Corner

Main body (EPS 1-401) with mitre corner angle fixed 90° (EPS 1-600).



Profile joint and stiffening

Joint with joiner extention (EPS 1-625)
Stiffening profile (EPS 1-440) with butt joint round head (EPS 1-615)

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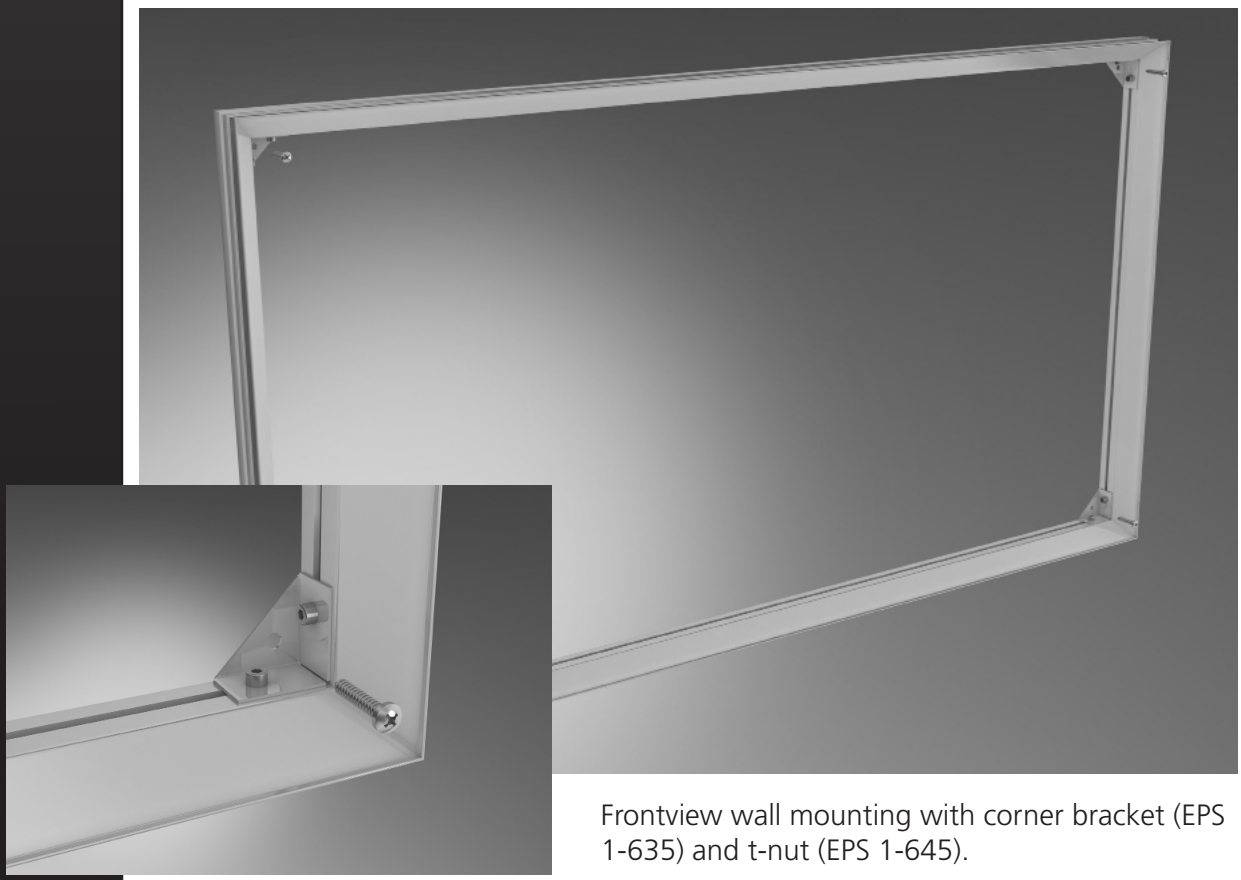
Wall mounting

Frontview wall mounting with wall bracket (EPS 1-640) and t-nut (EPS 1-645).



Frontview wall mounting with corner bracket (EPS 1-635) and t-nut (EPS 1-645).

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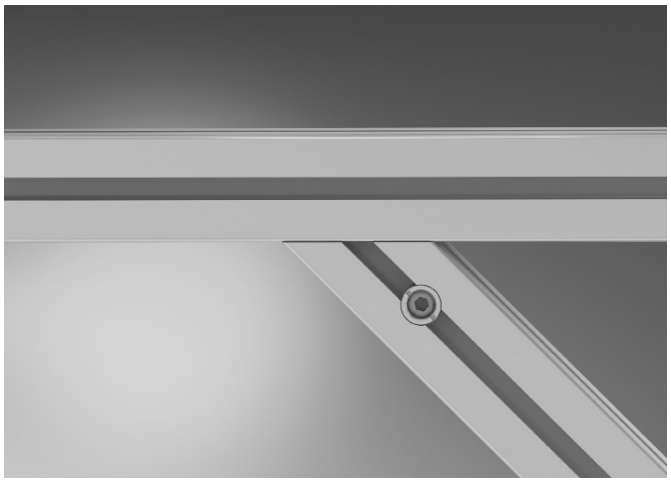
Special constructions

Sharp and butt angles with mitre corner angle hinged 70°-180° (EPS 1-605)



Angular butt joint with butt joint round head hinged 45°-90° (EPS 1-620)

Spatial construction with stiffening profile (EPS 1-440) and butt joint round head (EPS 1-615)

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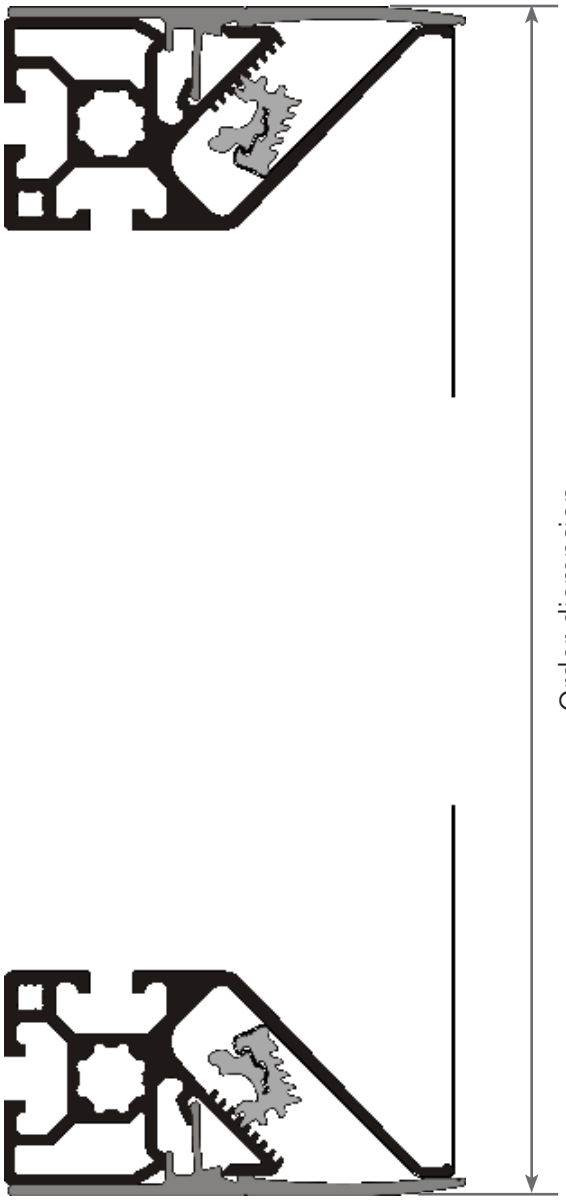
Information for order dimensions

When cutting ready-made kits, the exact order size must be kept in mind. The order size indicates the absolute outside size including the cover profile ordered.



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