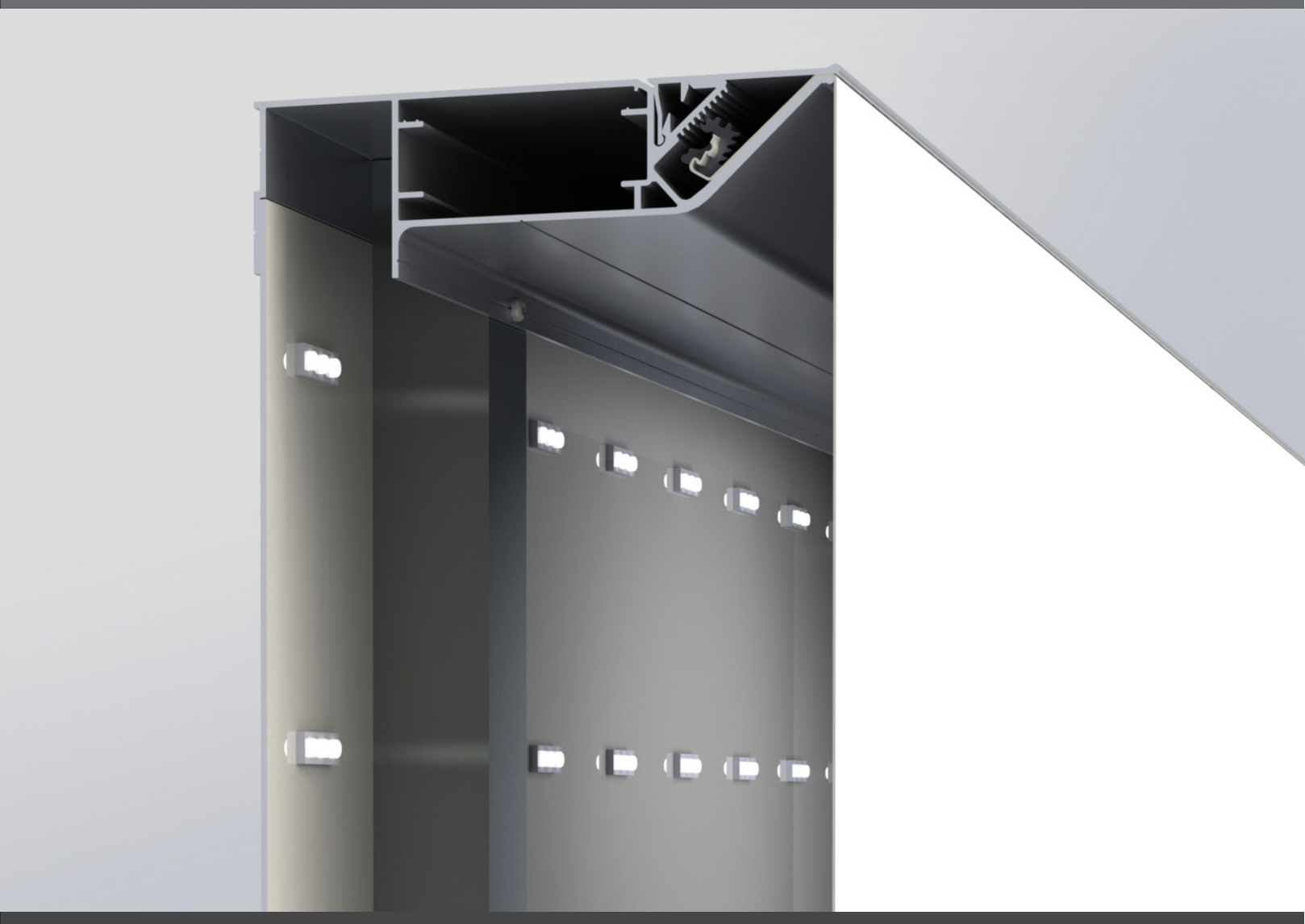
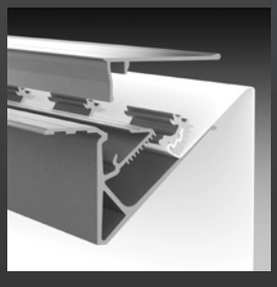
EPS
SYSTEMS





EPS.LUMI 2000

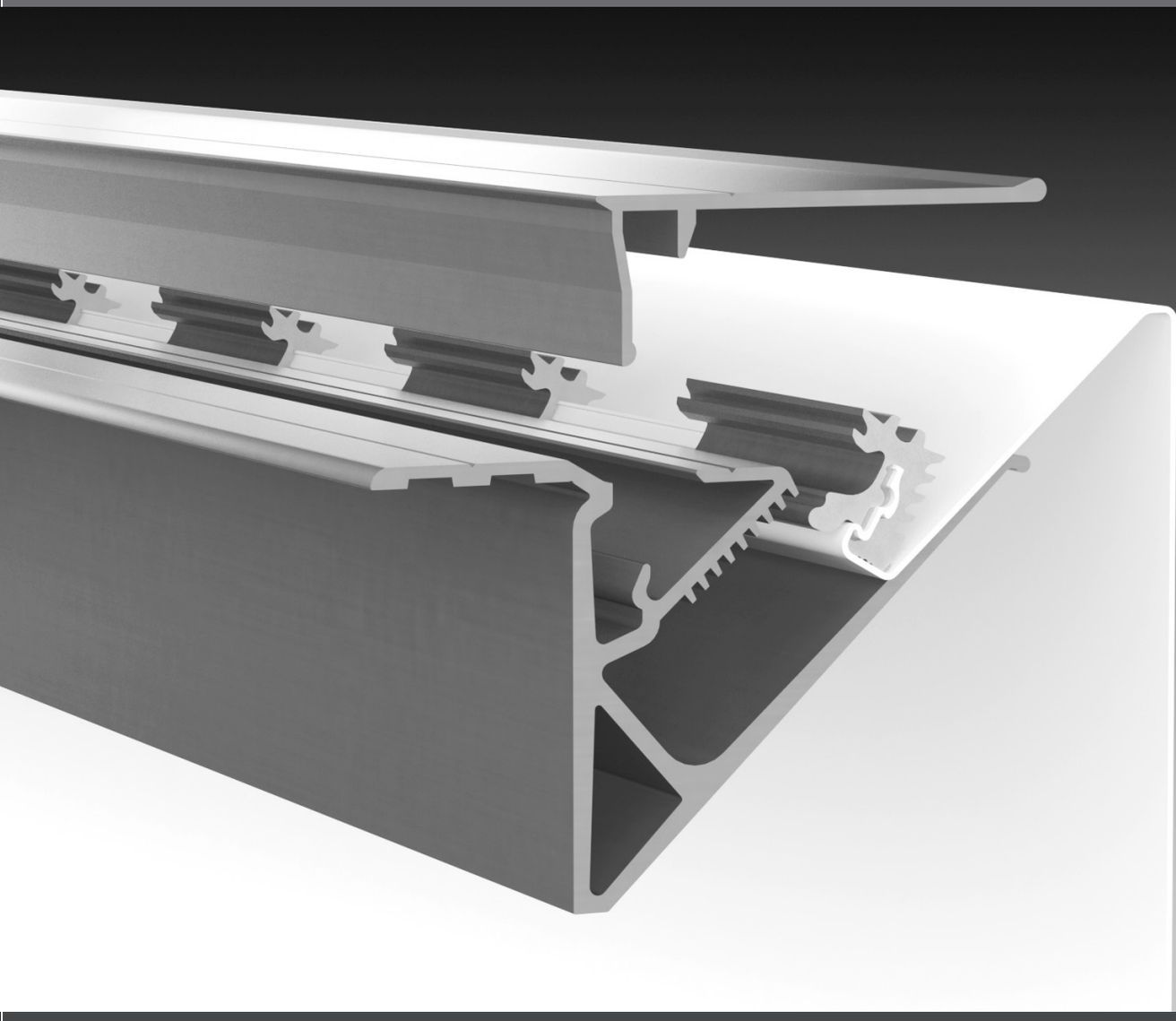
Technical Documentation

04.2025

EPS SYSTEMS

Stand: 04.2025

EPS
SYSTEMS

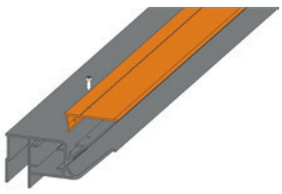


Basic knowledge
Fabric tensioning

System description LUMI-2000

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 with framless flat cover EPS 1-022 and EPS 1-023

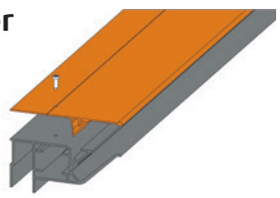


Add **63 mm fabric allowance** to the outer dimension of the assembled housing all around.

Add 63 mm to the external dimensions of the housing.

Remove the orange area of the fabric.

Fabric allowance and fabric cutting with broad cover profile EPS 1-300 and EPS 1-301



Add **59 mm fabric allowance** to the outer dimension of the assembled housing all around.

Add 59 mm to the external dimensions of the housing.

Remove the orange area of the fabric.

EPS Systems KG
Obere Leimbach 6, 57074 Siegen/Germany
Fon +49 (0) 271.338829-00
info@eps-systems.de
www.eps-systems.de

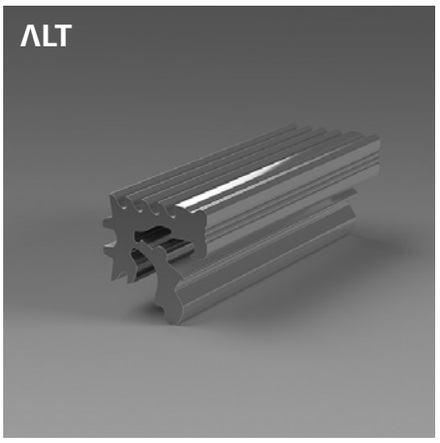
Notes on the mass per unit area of the fabric

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 flexholder does not grip.

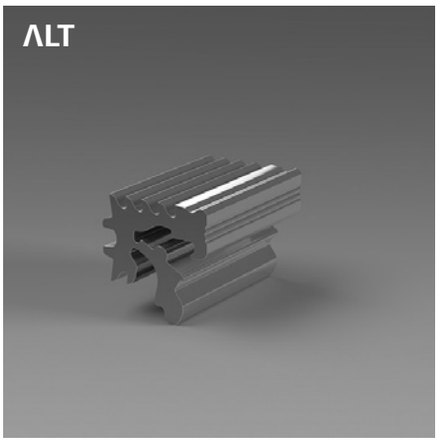
For formats with a length > 4 m, we recommend cutting the precise fabric allowance on site when in a half-tensioned state and them clamping the flex holders into place since temperature differences may influence the size of the fabric. If the fabric is still too long, release the flex holders with the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

Stand: 04.2025

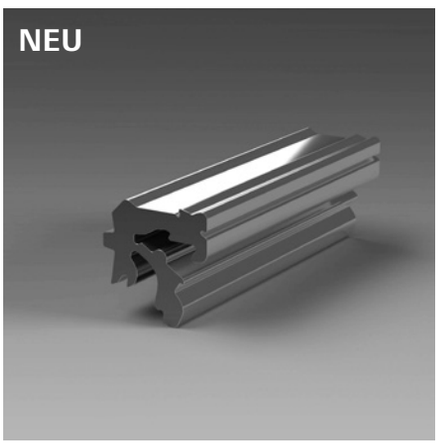
Note on new flex holder design



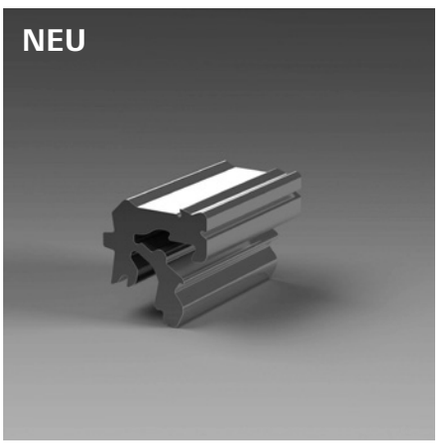
Old version 50 mm:
EPS 1-072
EPS 1-074
EPS 1-077



Old version 25 mm:
EPS 1-092
EPS 1-094
EPS 1-097



New version 50 mm:
EPS 1-072-001
EPS 1-074-001
EPS 1-077-001



New version 25 mm:
EPS 1-092-001
EPS 1-094-001
EPS 1-097-001

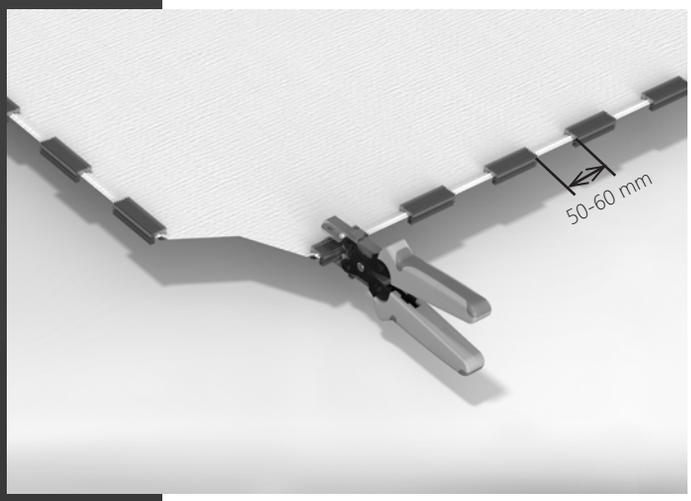
Compared to the old ones, the new flex holders have no ribbing on the top. This difference is purely visual and has no influence on the known technical functions.

If you have any questions, please do not hesitate to contact us.

Stand: 04.2025

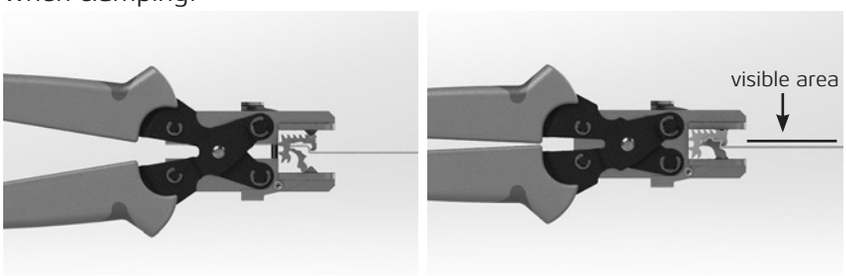
EPS Systems KG
Obere Leimbach 6, 57074 Siegen/Germany
Fon +49 (0) 271.338829-00
info@eps-systems.de
www.eps-systems.de

Attachement of flex holders

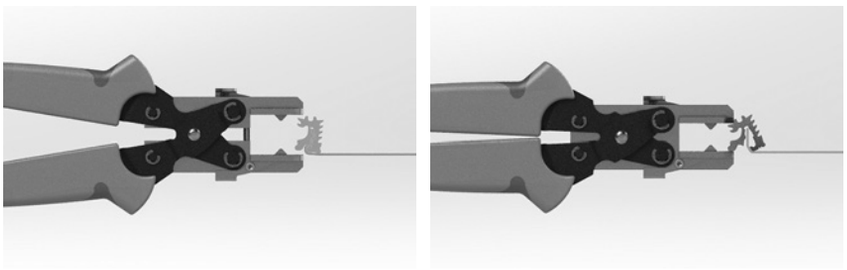


Starting from the corner of the fabric, the flex holders are applied with gaps of 50 - 60 mm between them. In order to achieve optimum tension: the larger the fabric area, the smaller the gaps between the holders.

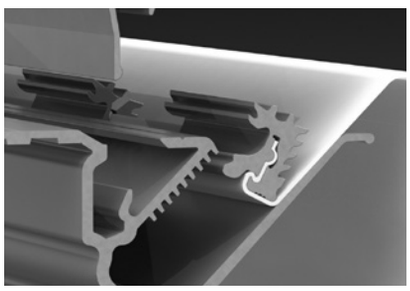
Using the flex holder pliers, compress the flex holder on the fabric until it engages perceptibly. Important: The smooth side of the flex holder must face the visible area of the fabric when clamping.



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!



EPS Systems KG
Obere Leimbach 6, 57074 Siegen/Germany
Fon +49 (0) 271.338829-00
info@eps-systems.de
www.eps-systems.de

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.

Stand: 04.2025

EPS Systems KG
Obere Leimbach 6, 57074 Siegen/Germany
Fon +49 (0) 271.338829-00
info@eps-systems.de
www.eps-systems.de

Tensioning the fabric

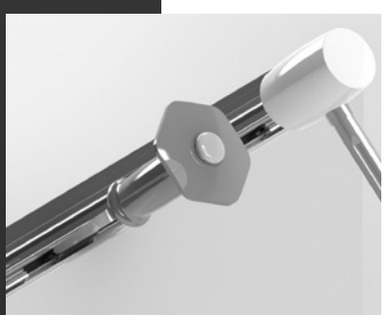
Minimum tensioning depth of the flex holder
In order to ensure that the fabric is provided with optimum and secure tension when you have completed tensioning, the flex holders should be engaged in the middle section of the toothing of the tensioning profile.

The fabric can be tensioned in two ways:

1. With the tensioning tool

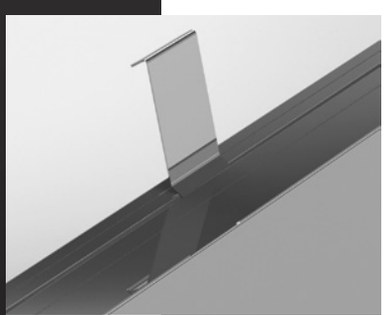
Insert the nipple at the centre tip of the tensioning tool into the profile groove above the tensioning channel. Press down the left or right tip of the tensioning tool to engage the flex holder in the teeth of the tensioning channel and tension the fabric. Then seal the tensioning channel with the cover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



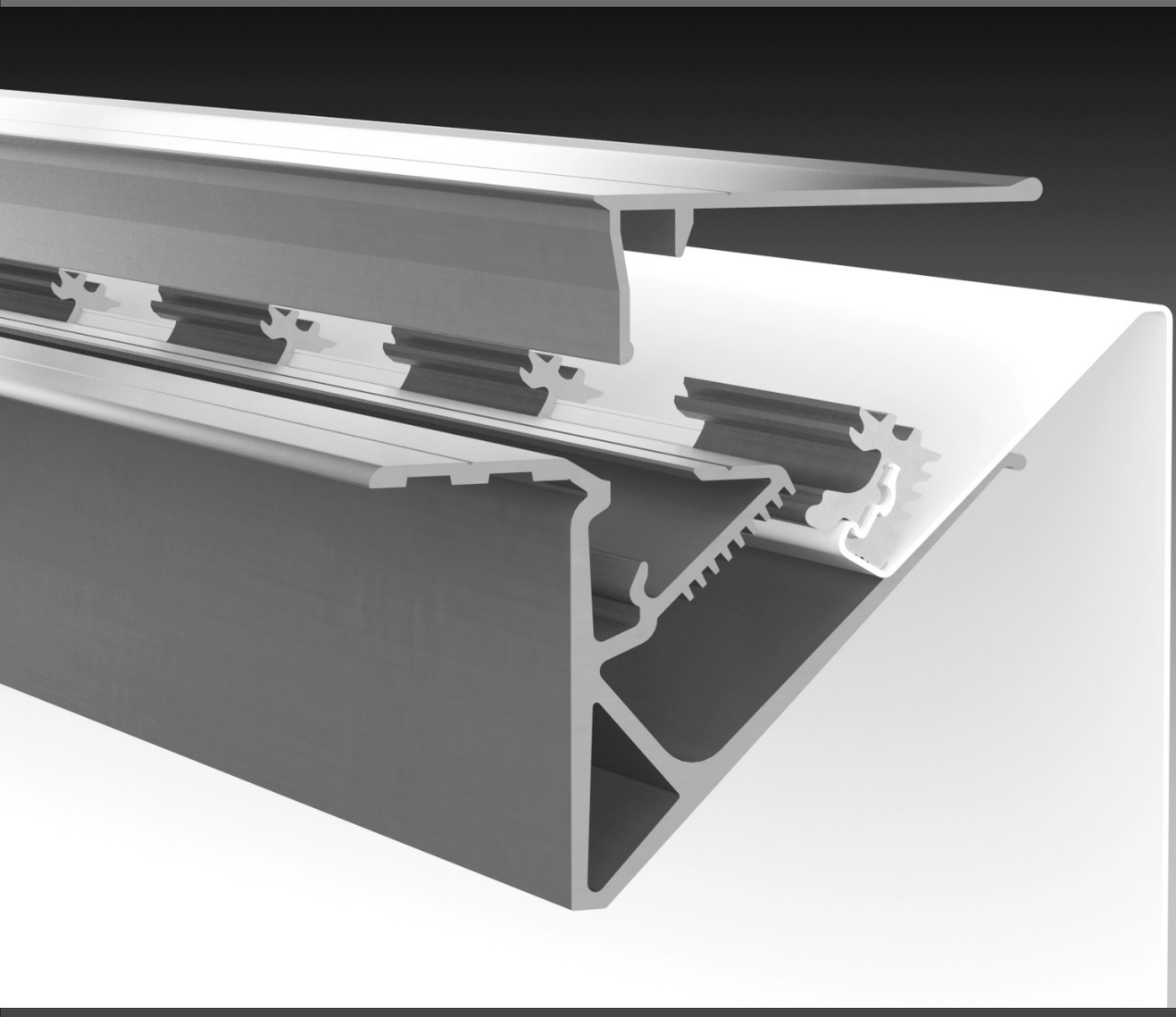
Releasing the fabric

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.

EPS Systems KG
Obere Leimbach 6, 57074 Siegen/Germany
Fon +49 (0) 271.338829-00
info@eps-systems.de
www.eps-systems.de

EPS
SYSTEMS



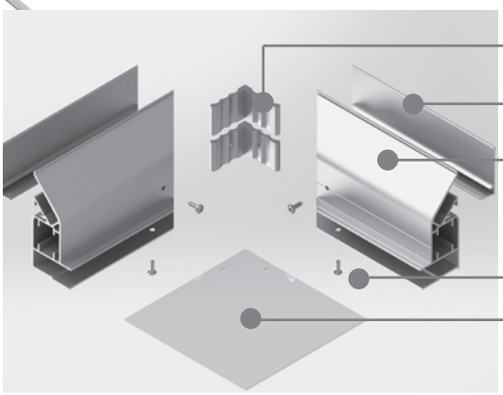
Assembly Boxes

BOX S-120 and BOX S-180

The following assembling instruction shows the profile assembling using the example of the BOX S-120.

Please note:
- Fabric allowance circumferential 63 mm
- When using the broad cover profile the cirumferential fabric allowance is reduced on 59 mm
- Always secure the cover profile with screws.
- Notes on bending see page 24.

Edge



Corner angle EPS 1-041, 2 pieces per edge

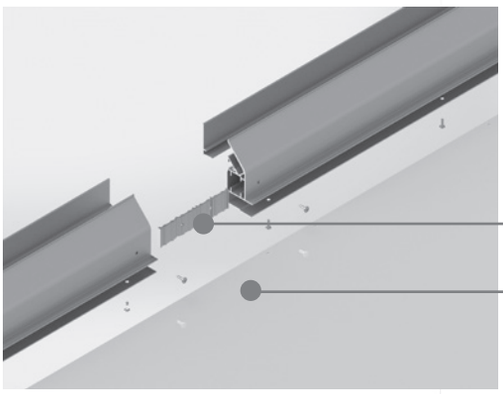
Cover profile EPS 1-022

Main body120 EPS 1-006

Screwing rear wall

Rear wall, material thickness 2 mm, cut 60-65 mm shorter than the overall housing height

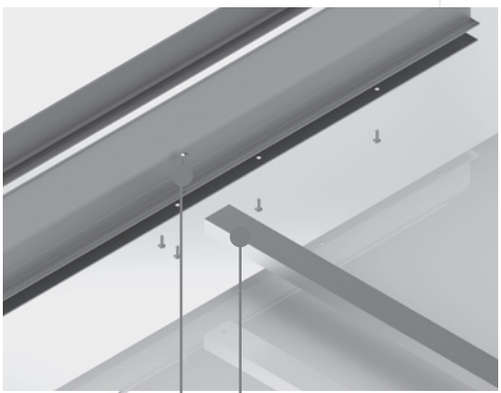
Profile joint

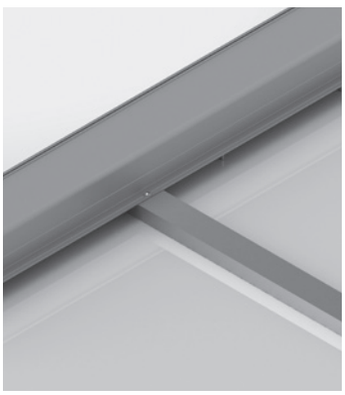


Joiner plate EPS 1-040

Rear wall

Stiffening





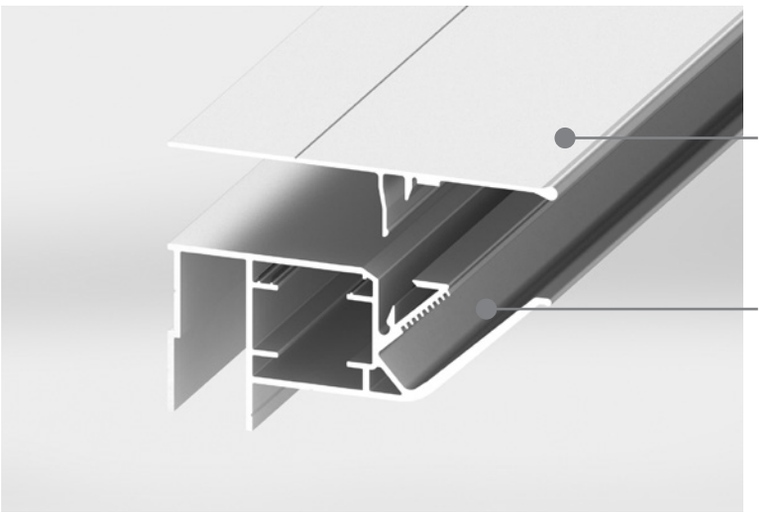
Screwing on profile

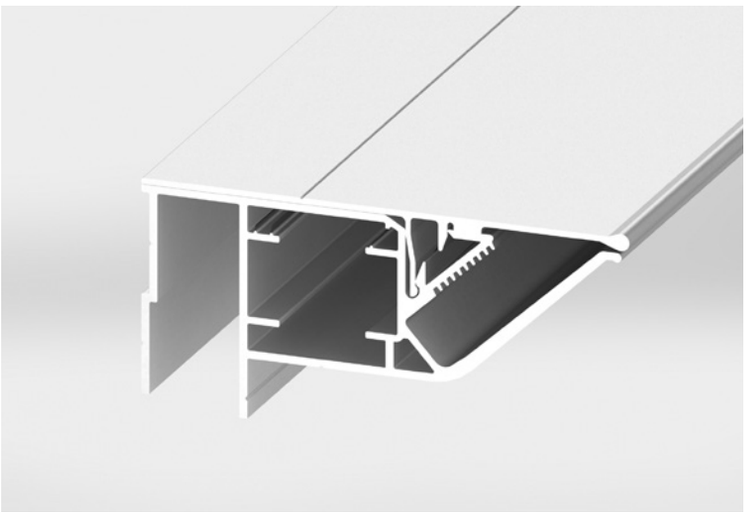
When using the flat cover profile EPS 1-022, cut aluminum tube EPS 1-054 **approx. 5 mm shorter than the frame format** and insert into the corresponding groove.
When using the wide cover profile EPS 1-300 and EPS 1-301, **cut approx. 9 mm shorter**.

EPS Systems KG
Obere Leimbach 6, 57074 Siegen/Germany
Fon +49 (0) 271.338829-00
info@eps-systems.de
www.eps-systems.de

Broad Cover profile

With the wide cover profiles EPS 1-300 and EPS 1-301 a closed look of the frame is achieved.





The Main body therefore no longer has to be surface-treated.
It is also possible to change the color of the visible profile frame without dismantling and repainting the entire advertising structure.
The cover profiles are available in raw aluminum and in colorless anodized E6 / C0.

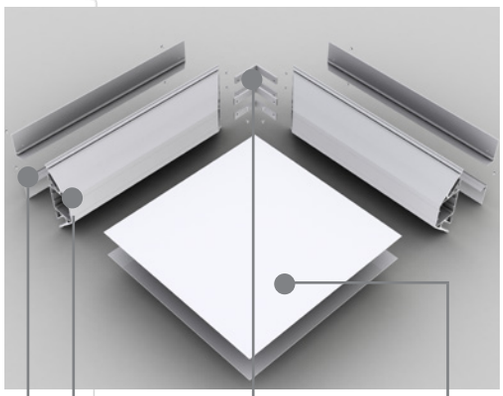
Please note:
When using the broad cover profile the cirumferential fabric allowance is reduced on 59 mm.
In addition, the aluminum tube EPS 1-054 must be cut approx. 9 mm shorter than the frame format.

EPS Systems KG
Obere Leimbach 6, 57074 Siegen/Germany
Fon +49 (0) 271.338829-00
info@eps-systems.de
www.eps-systems.de

BOX D-200

Please note:
- Fabric allowance circumferential 63 mm
- First, snap the fabric on both sides in the First row, then tense both sides alternately.
- Always secure the cover profile with screws.

Edge



Corner angle EPS 1-080, 4 pieces per edge

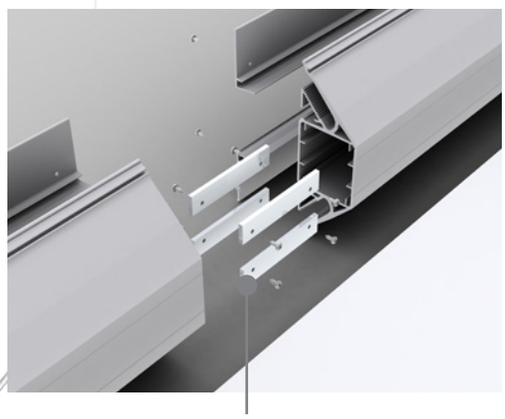
Main body double-sided EPS 1-007

Cover profile EPS 1-023

Rear wall

Self-made reinforcement of welded square tube 40/40/3 mm. Reinforcement is to be selected by the processor himself

Profile joint



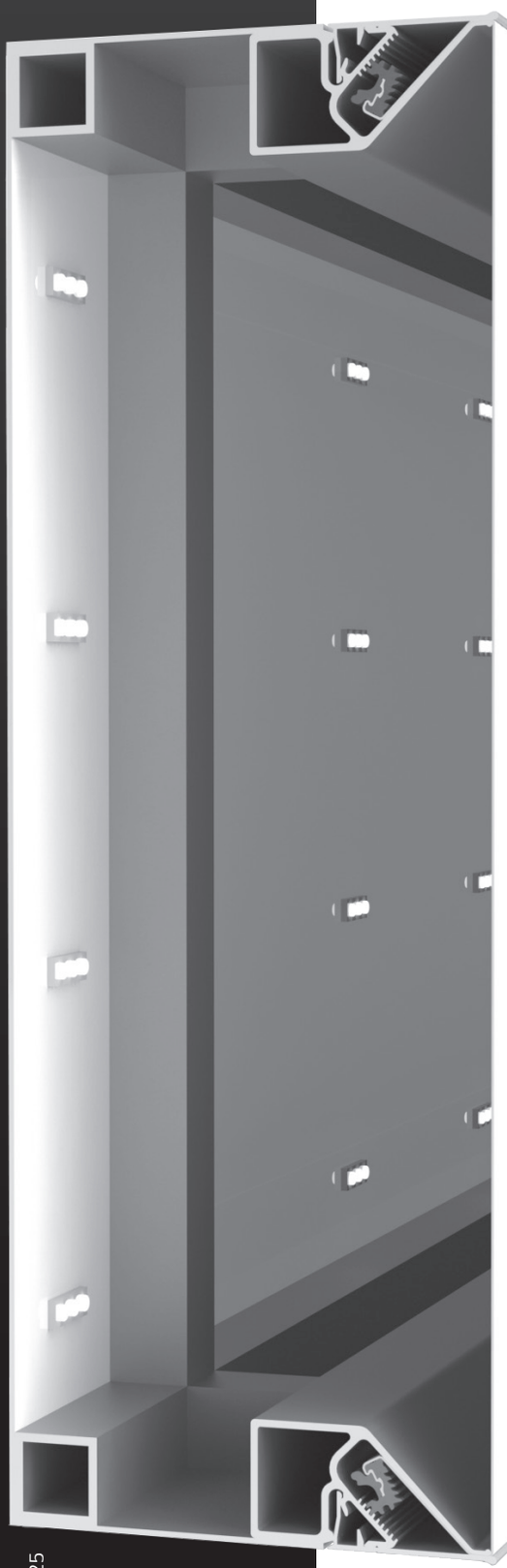
Joiner plate EPS 1-081, 4 pieces per joint

Stand: 04.2025

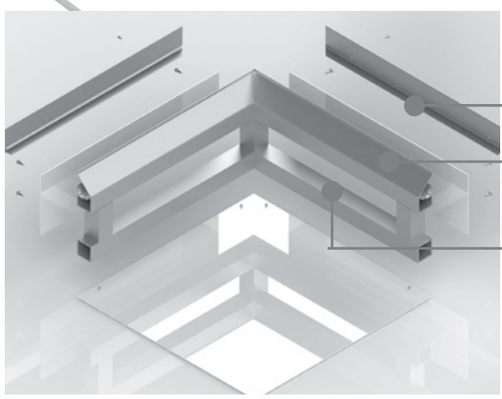
Assembly welded retrofit

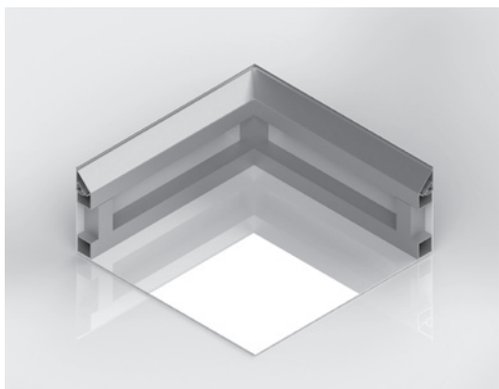
Please note:

- Fabric allowance circumferential 63 mm
- Always secure the cover profile with screws.
- The profile EPS 1-011 cannot be bent.



Edge





Self-made reinforcement of welded square tube. Reinforcement is to be selected by the processor himself.

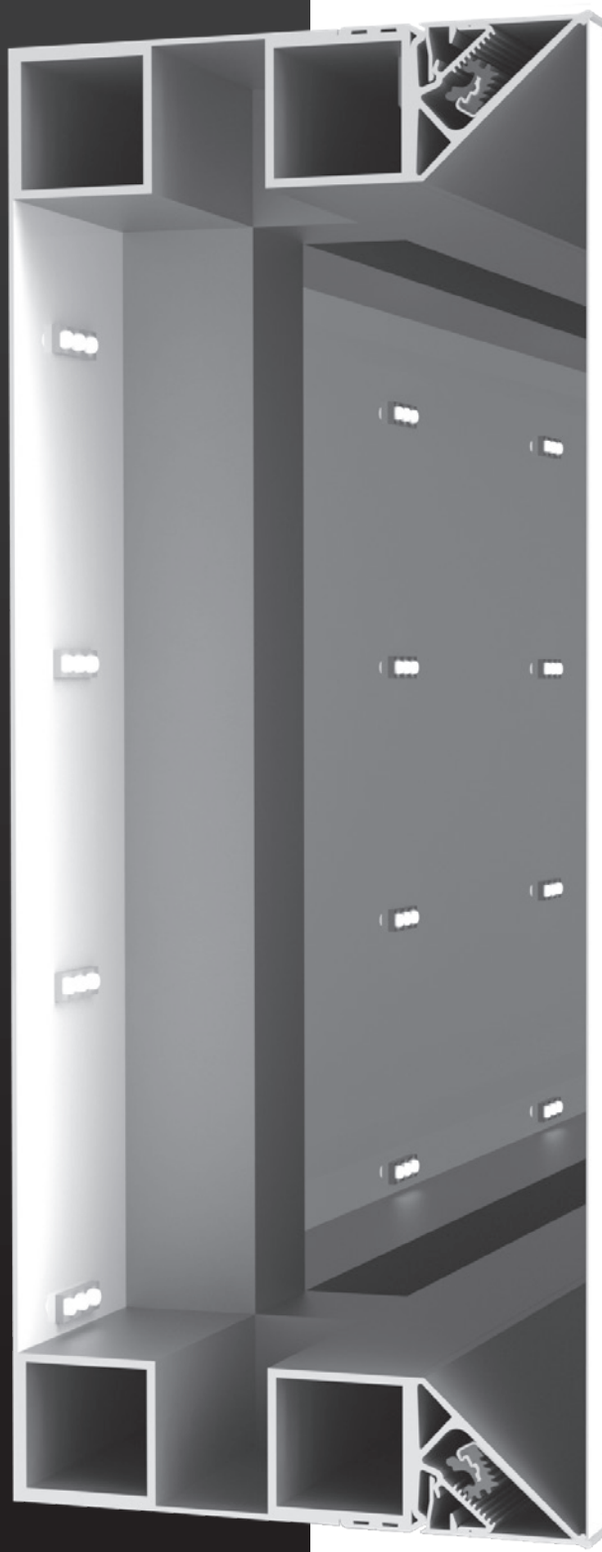
Double-sided frame

EPS Systems KG
Obere Leimbach 6, 57074 Siegen/Germany
Fon +49 (0) 271.338829-00
info@eps-systems.de
www.eps-systems.de

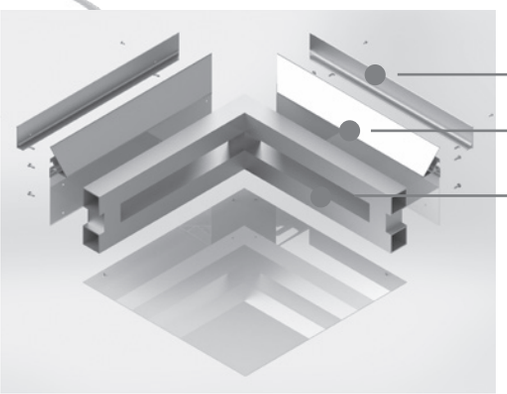
BOX S-84 and BOX S-97

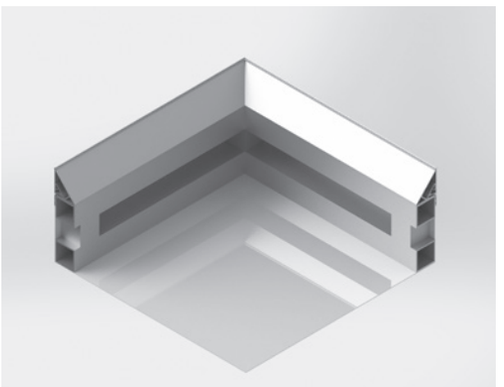
The following assembling instruction shows the profile assembling using the example of the BOX S-84.

Please note:
- Fabric allowance circumferential 63 mm
- Always secure the cover profile with screws.
- Notes on bending see page 24.



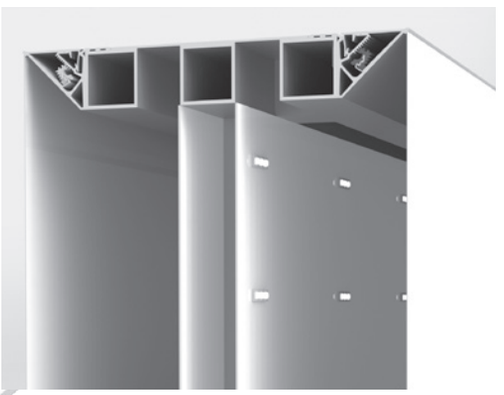
Edge





Self-made reinforcement of welded square tube. Reinforcement is to be selected by the processor himself.

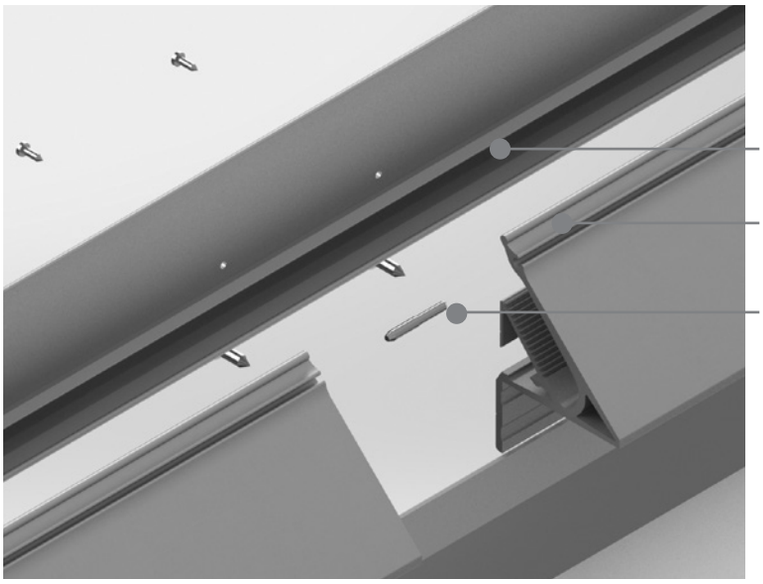
Double-sided frame (BOX D-84 und BOX D-97)

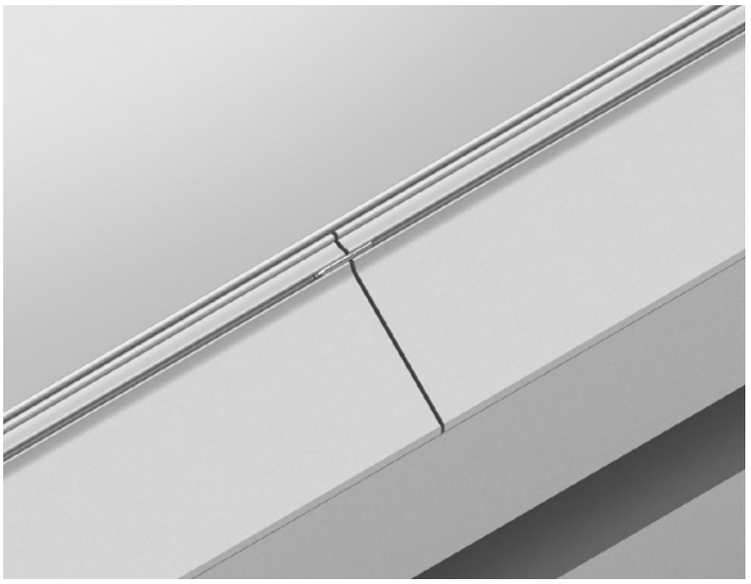


EPS Systems KG
Obere Leimbach 6, 57074 Siegen/Germany
Fon +49 (0) 271.338829-00
info@eps-systems.de
www.eps-systems.de

Profile joint Box S-97

For the connection of the Retrofits EPS 1-019, the Joiner pin EPS 1-079 can be used.



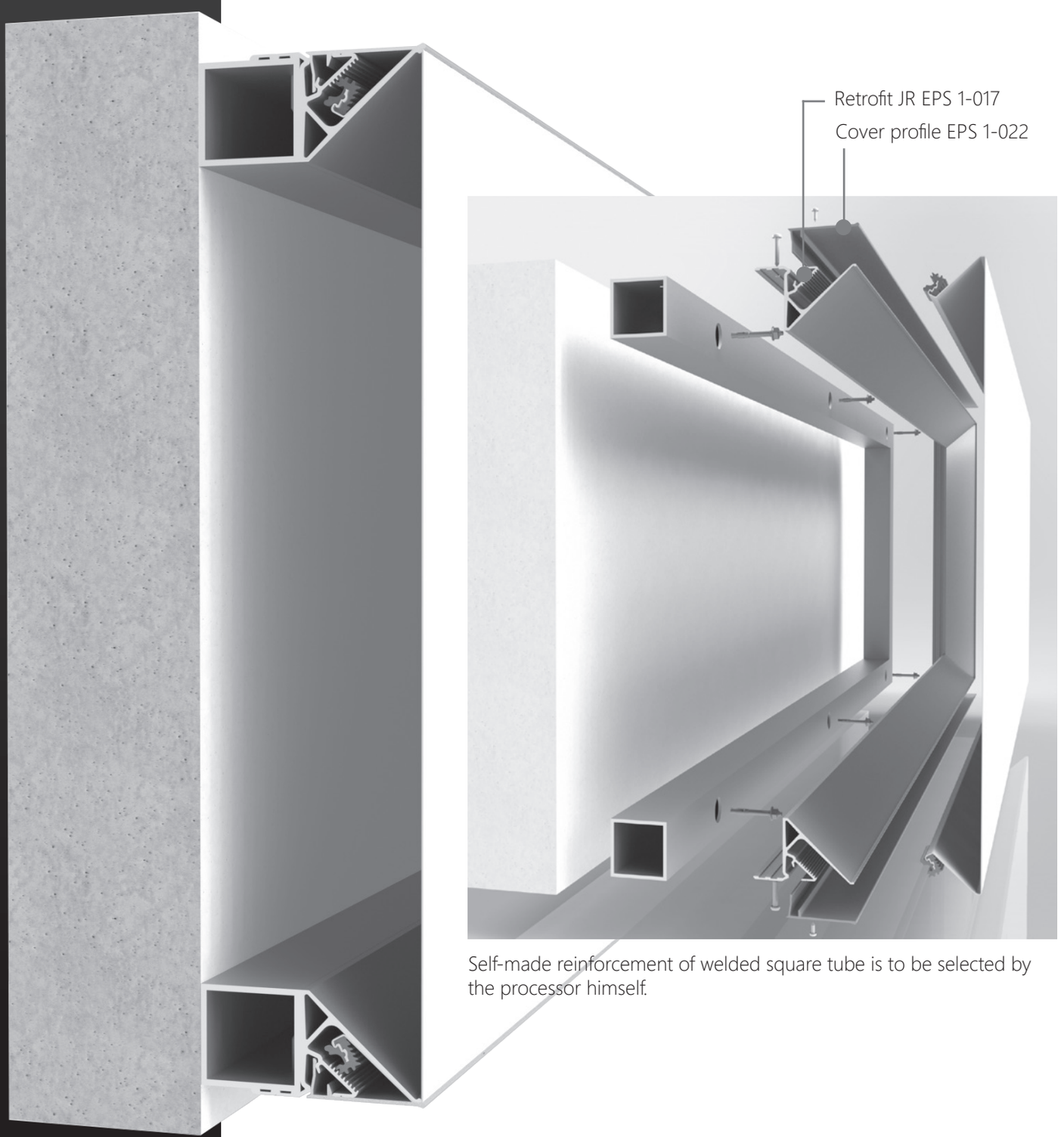


EPS Systems KG
Obere Leimbach 6, 57074 Siegen/Germany
Fon +49 (0) 271.338829-00
info@eps-systems.de
www.eps-systems.de

DISPLAY S-84 and DISPLAY S-97

The following assembling instruction shows the profile assembling using the example of the DISPLAY S-84.

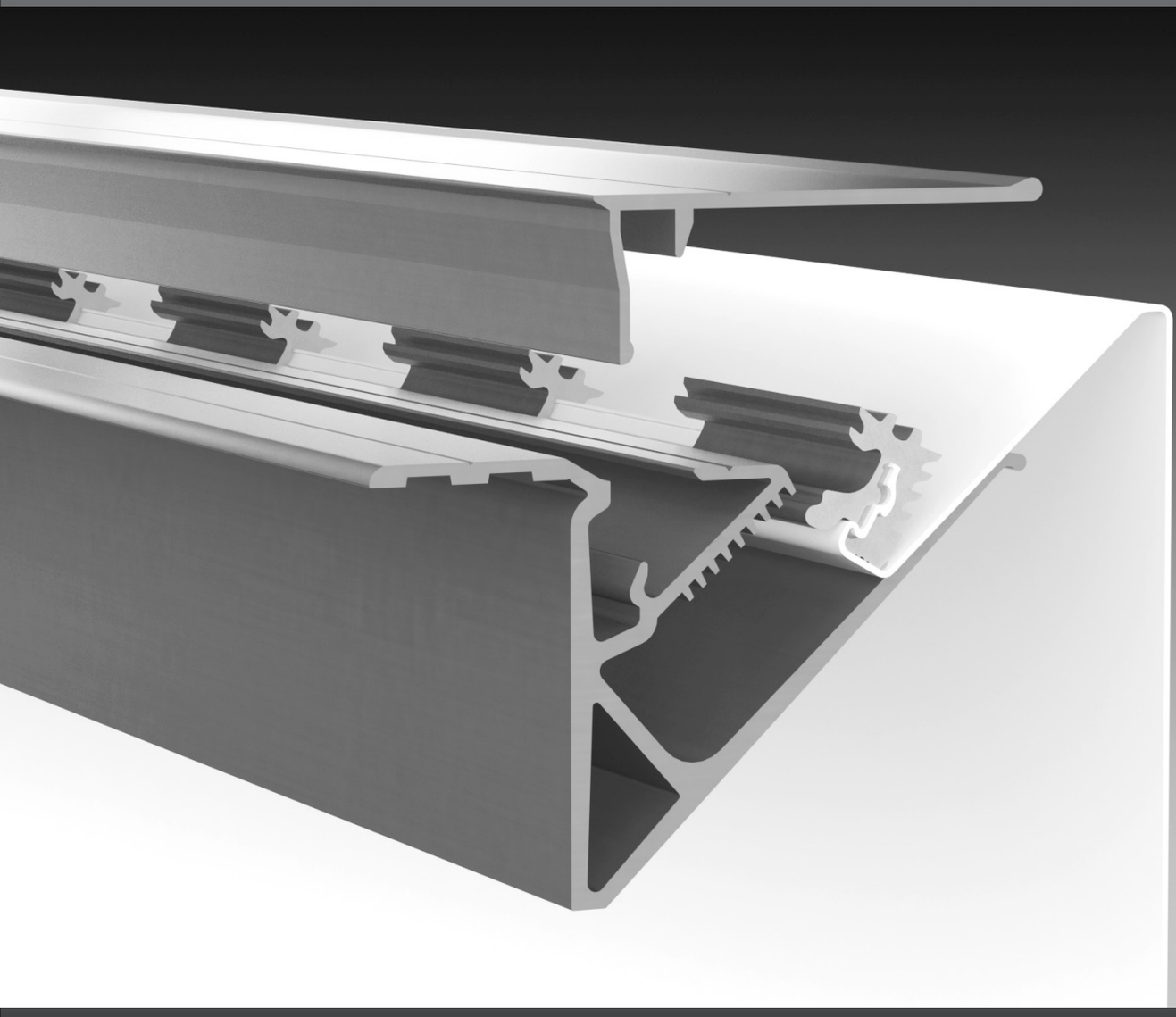
Please note:
- Fabric allowance circumferential 63 mm
- Always secure the cover profile with screws.
- Assembly instruction display on page 23.
- Notes on bending see page 24.



Self-made reinforcement of welded square tube is to be selected by the processor himself.

EPS Systems KG
Obere Leimbach 6, 57074 Siegen/Germany
Fon +49 (0) 271.338829-00
info@eps-systems.de
www.eps-systems.de

EPS
SYSTEMS



Technical additional information

Statics and special designs

Static

For large format flex systems and exposed placements on high buildings or in the vicinity of the coast, you will require precise information regarding the performance capabilities of our tensioned profile systems.

We have subjected our profiles to comprehensive testing by independent test institutes and will be happy to assist you with our knowledge, expertise and static values regarding tension testing.

Special profiles

If you can not find the right profile in our product range, we also offer the possibility of project-related special profiles.

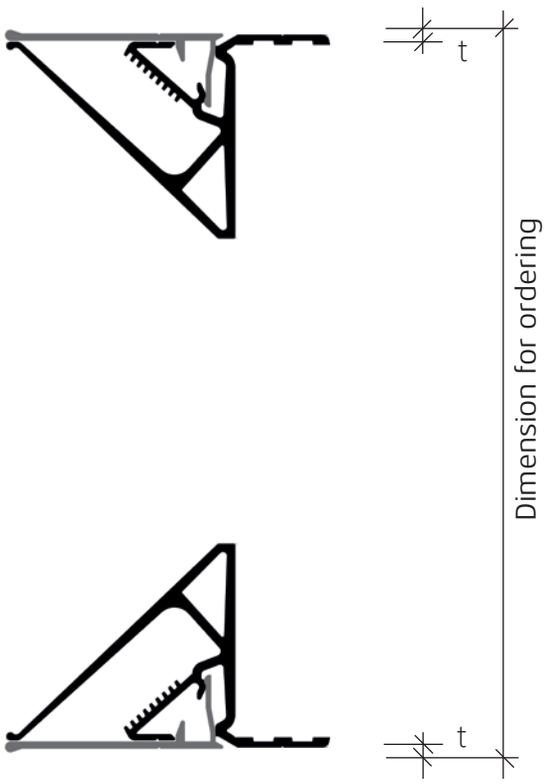
We are happy to advise you on these topics.

Stand: 04.2025

Ordering information for kits

Please note the following dimensions for kits and frames:

EPS 1-017 Retrofit ΛP 84	t = 2,5 mm
EPS 1-019 Retrofit ΛP 97	t = 3-4 mm

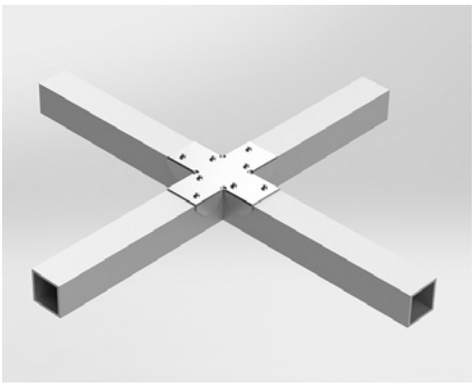


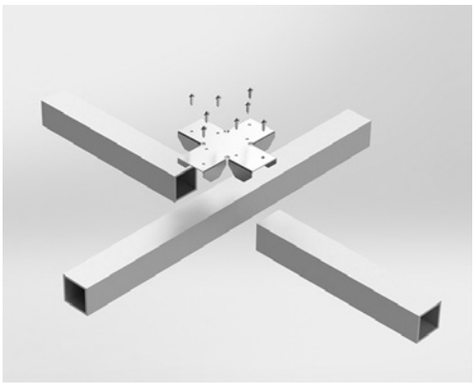
EPS Systems KG
Obere Leimbach 6, 57074 Siegen/Germany
Fon +49 (0) 271.338829-00
info@eps-systems.de
www.eps-systems.de

Systematic presentation of supports

The following illustrations apply only to the BOX S-120 and BOX S-180

The support is fastened by using the Cross connector EPS 1-056.

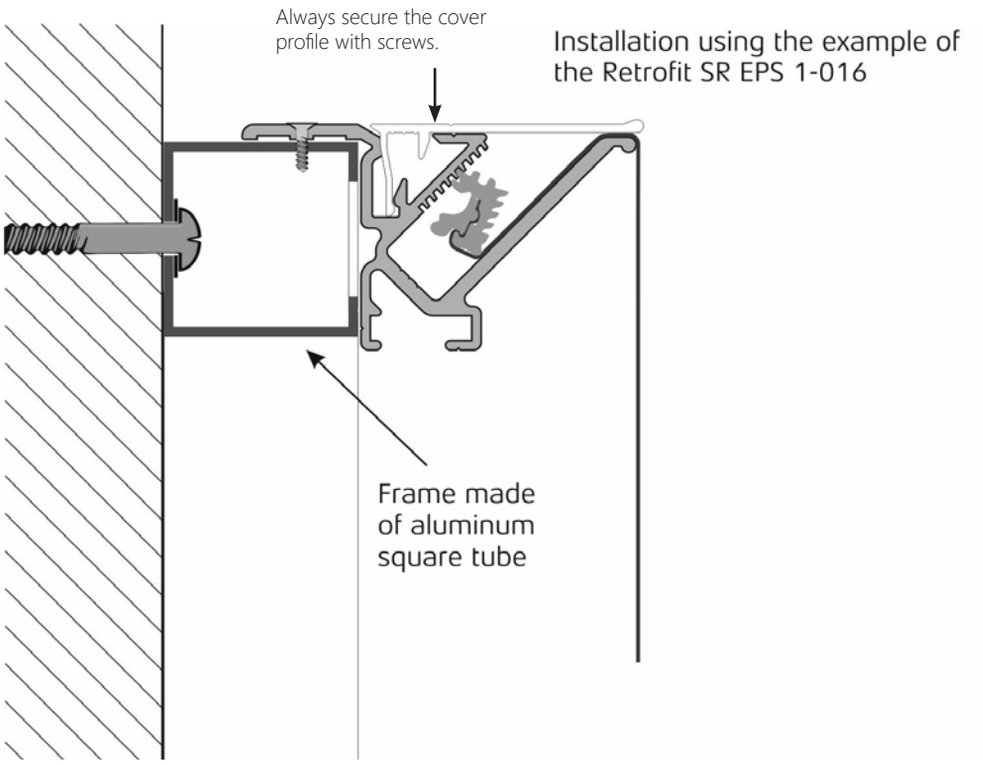


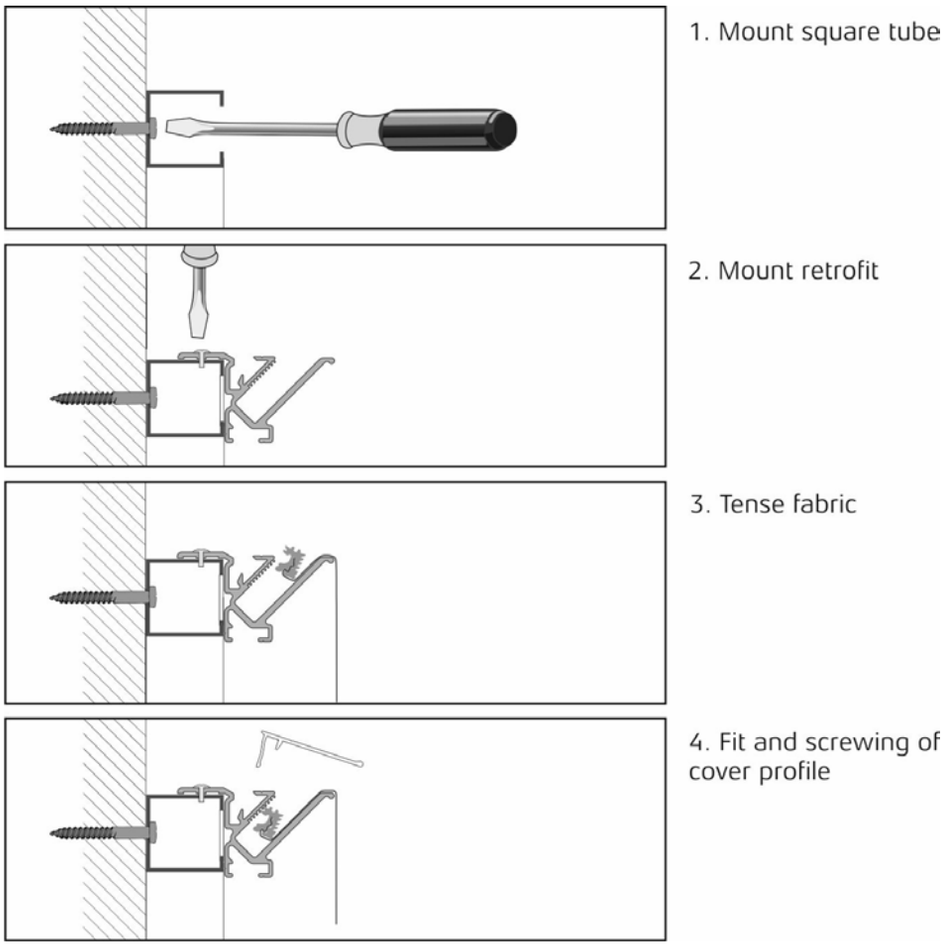


EPS Systems KG
Obere Leimbach 6, 57074 Siegen/Germany
Fon +49 (0) 271.338829-00
info@eps-systems.de
www.eps-systems.de

Assembly instruction display

These notes refer to unlit displays with Retrofit.





EPS Systems KG
Obere Leimbach 6, 57074 Siegen/Germany
Fon +49 (0) 271.338829-00
info@eps-systems.de
www.eps-systems.de

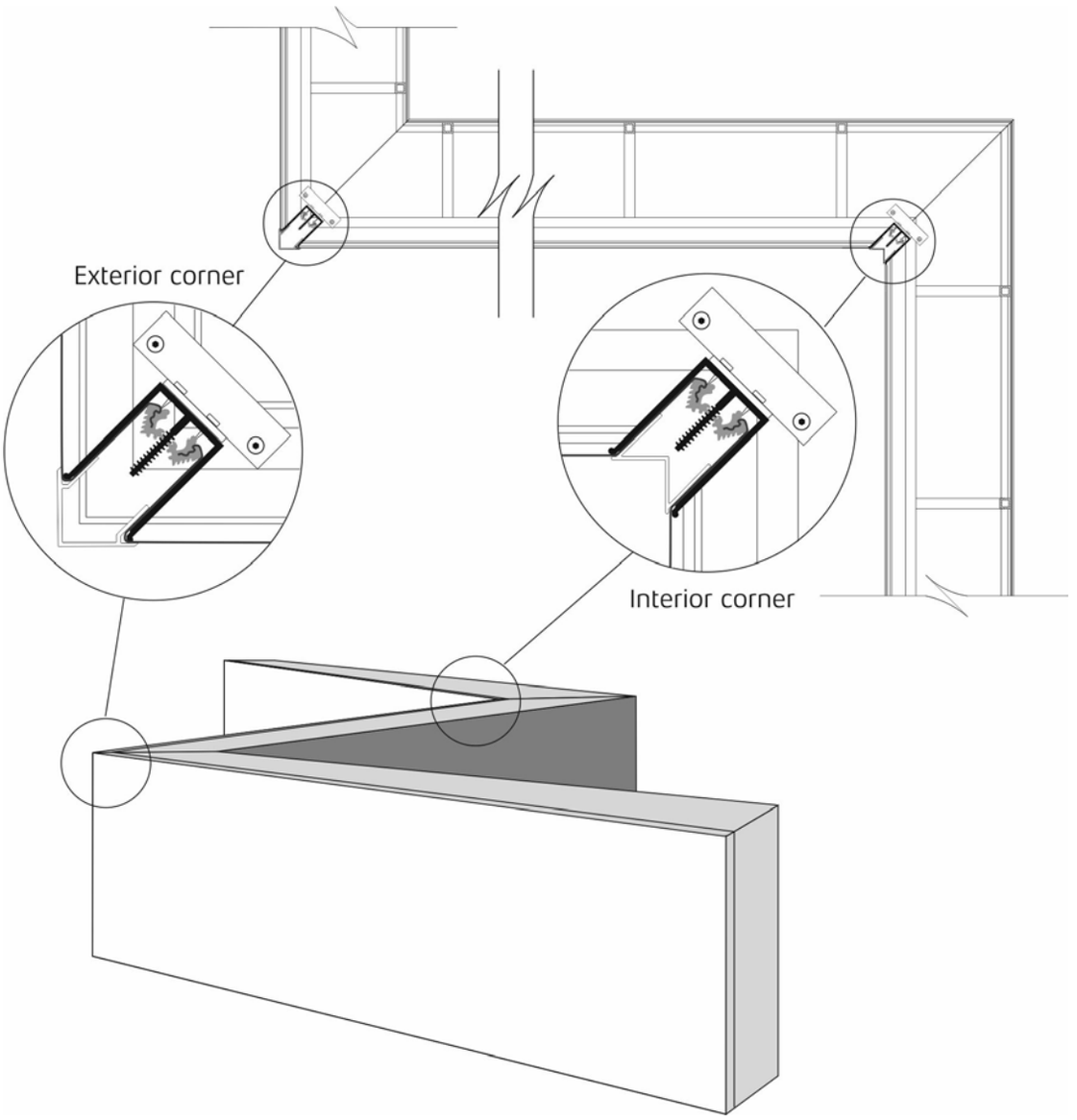
Edges

Corner & Devider
EPS 1-028

Exterior corner
cover
EPS 1-029

Devider cover
EPS 1-030

Interior corner
cover
EPS 1-031



EPS Systems KG
Obere Leimbach 6, 57074 Siegen/Germany
Fon +49 (0) 271.338829-00
info@eps-systems.de
www.eps-systems.de

Bending

As part of our „Profil.Plus“ service, we can shape your profiles to your individual needs using CNC control. Further details on request.

Please note for the profiles EPS 1-002 and EPS 1-006:
These profiles cannot be bent using CNC, but shaping can be achieved by sawing into it:

- Bending radius of sawing > 230 mm

Please note for the profile EPS 1-019:
These profiles cannot be bent using CNC, but shaping can be achieved by sawing into it:

- Bending radius of sawing > 300 mm

For the profile EPS 1-017 applies for the bending of Retrofit JR including Flat cover profile JR:

- CNC bending radius > 1200 mm
- Sawing bending radius > 230 mm

Stand: 04.2025

EPS
SYSTEMS

EPS Systems KG
Obere Leimbach 6
57074 Siegen/Germany
Fon +49 (0) 271.338829-00
info@eps-systems.de
www.eps-systems.de