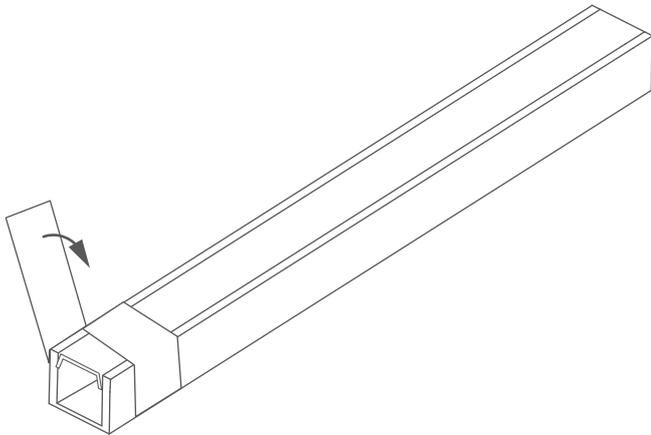


Spis treści / Table of contents

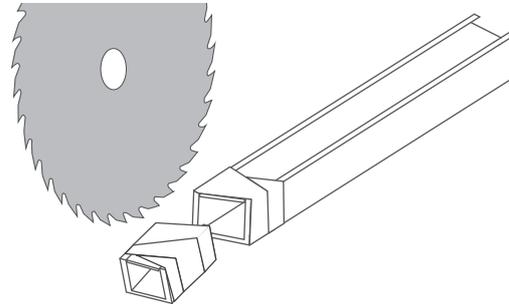
Cutting and drilling.....	p.2
Adhering and connecting LED strips.....	p.3
Attaching covers and end caps.....	p.4
Sealing the extrusion.....	p.5
Connecting extrusions using ZM connectors.....	p.6

1. Before cutting the extrusion with the cover, secure the cutting point with self-adhesive tape.



2. Use a mechanical saw to cut.

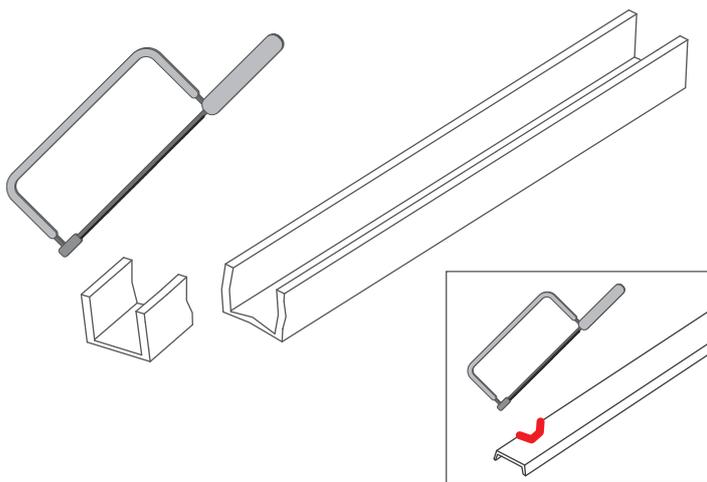
NOTE! It is recommended that the cover be cut 2 mm shorter than the extrusion to account for its thermal expansion.



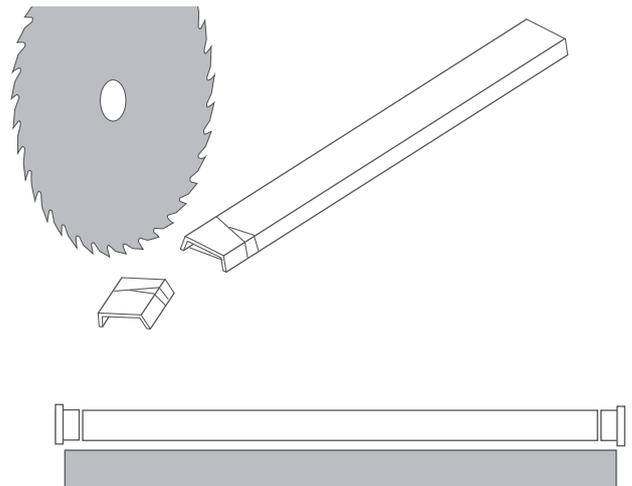
- 2mm



NOTE! Low precision cutting of the extrusion and cover can be done with a hand saw, however, uneven, jagged edges will remain, and the covers may break.

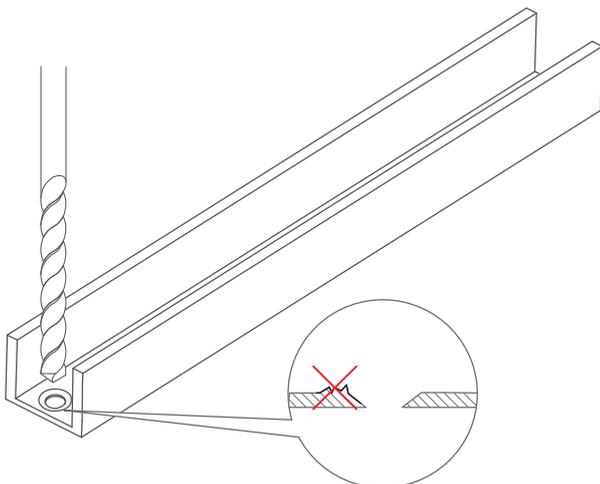


NOTE! For some extrusions there are dedicated end caps that require adequate shortening of the cover.

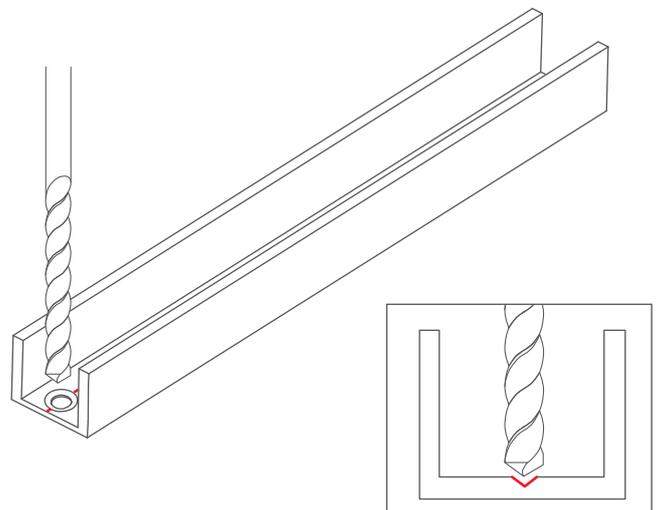


3. Drill a hole in the extrusion in the selected place.

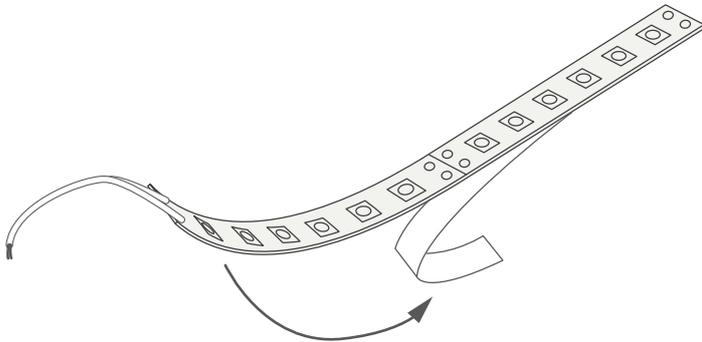
NOTE! Make sure that there are no burrs around the hole after drilling as they can damage the LED strip or cable.



NOTE! Some extrusions feature one or more special grooves that make it easier to start drilling.

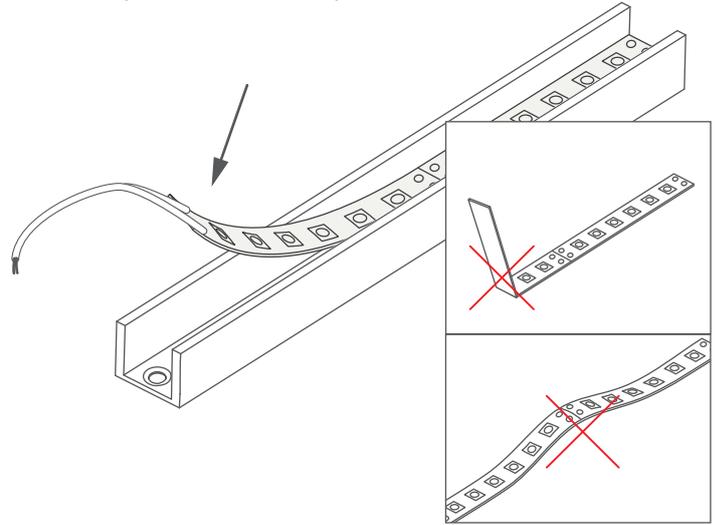


1. Remove the protective layer of the LED strip.

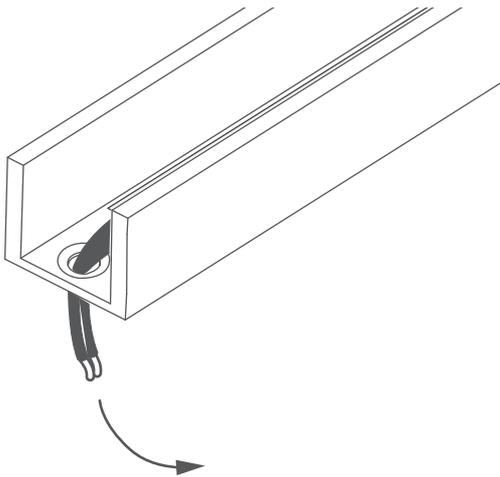


2. Attach the tape in the extrusion using the adhesive provided on the LED strip.

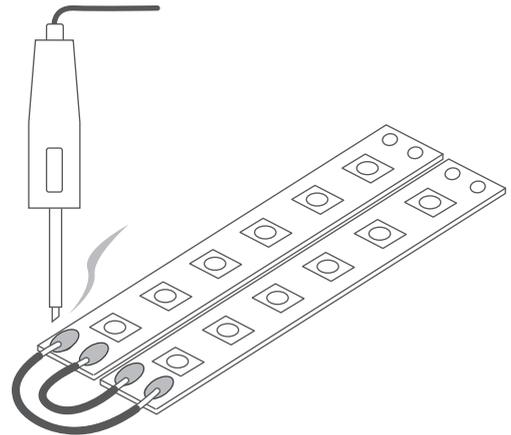
NOTE! The tape must not be bent or peel off the surface.



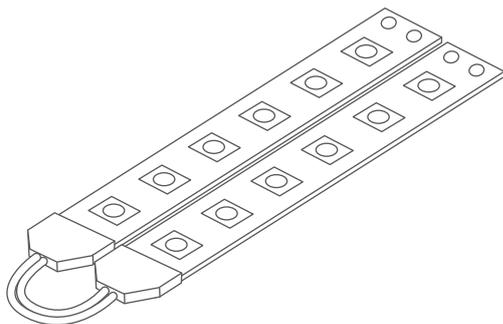
3. Lead the power cable through the drilled hole.



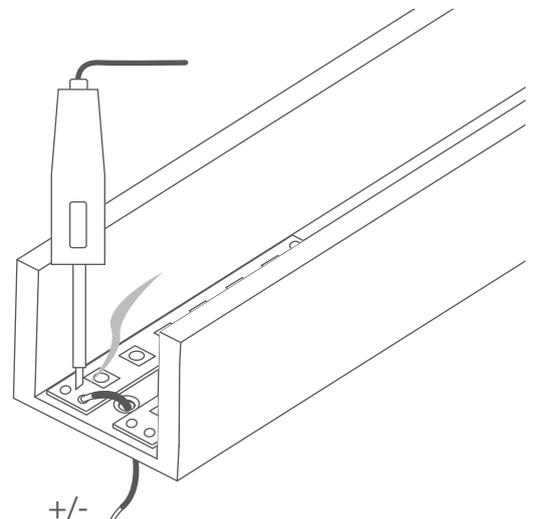
4. Connect the LED strips with wires by soldering.



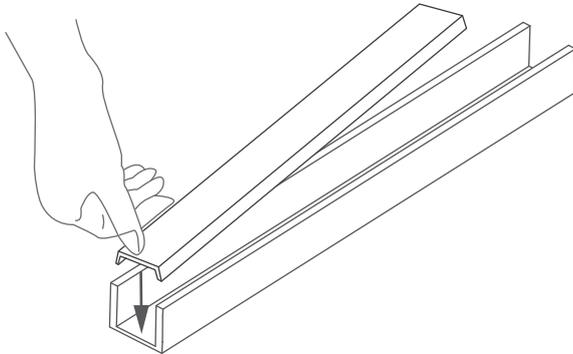
OPTIONALLY: The LED strips can also be connected using a system of LED strip connectors. More information at www.klusdesign.eu



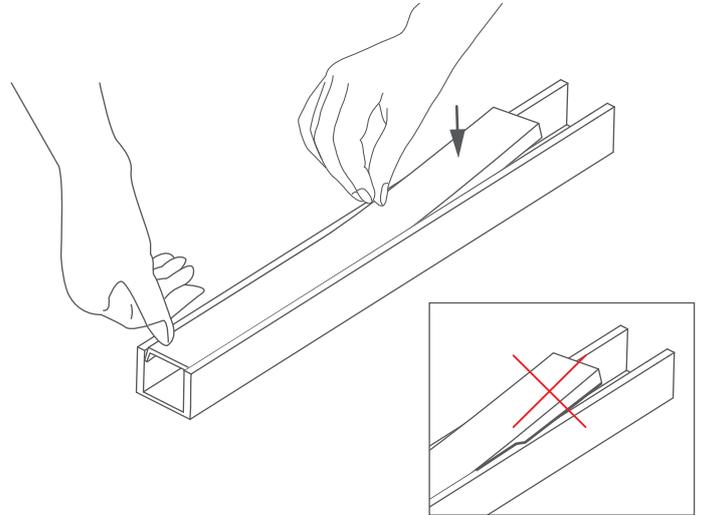
OPTIONALLY: The power cords can be led out from one pole of a given strip. This method is used to power suspended lighting fixtures.



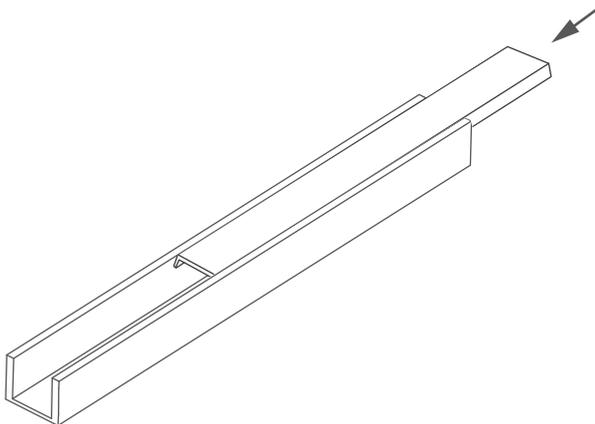
1. Insert the tip of the cover into the extrusion.



2. Press in the subsequent sections of the cover. Be careful not to bend or break the wings of the cover.

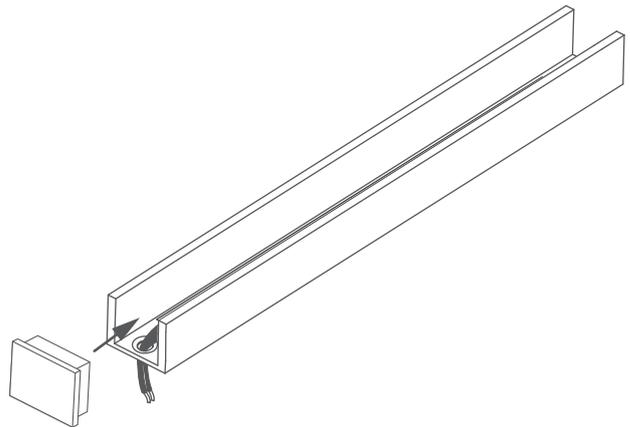


OPTIONALLY: Short sections, can also be inserted from the edge of the extrusion.

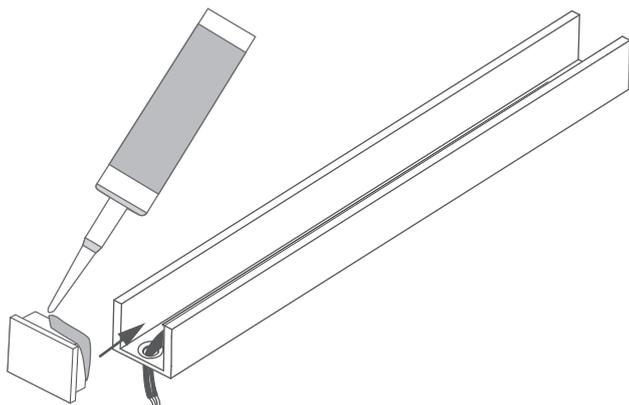


3. Insert an end cap into the edge of the extrusion. Individual extrusions have a shape that allows easy installation of dedicated end caps.

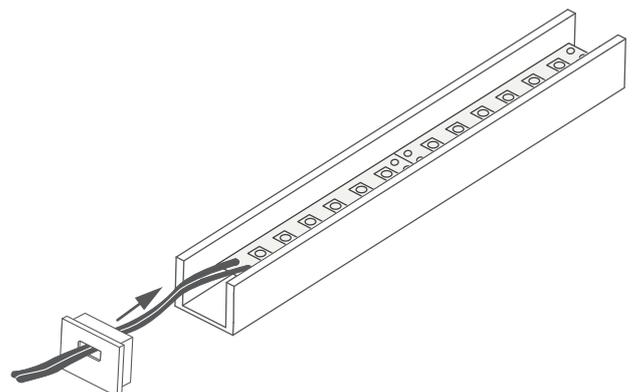
NOTE! Some end caps require an adequately shortened cover. This should be taken into account when cutting the extrusion and the cover.



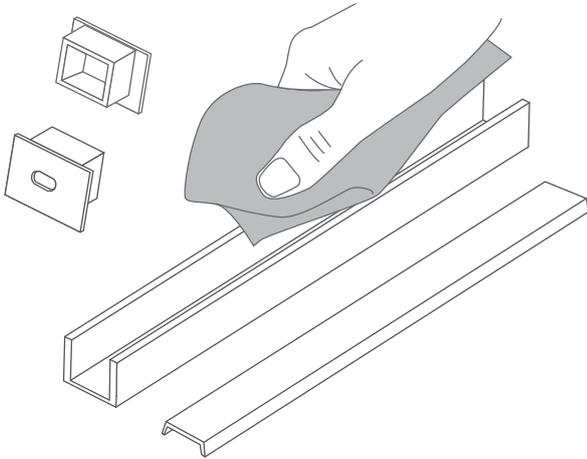
OPTIONALLY: The end caps can be attached to the extrusion using glue.



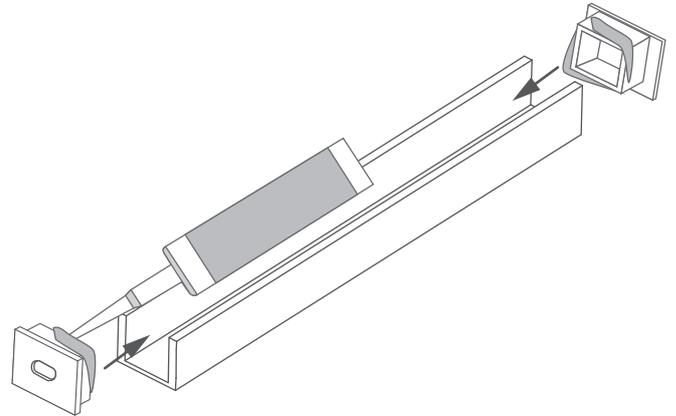
OPTIONALLY: Power cables can be run through the end caps in which case the extrusion does not need to be drilled through.



1. Clean dust and dirt from the extrusion and accessories.

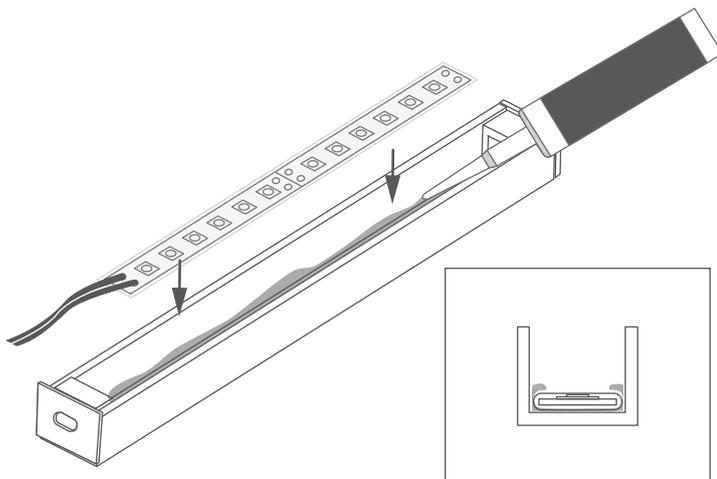


2. Attach the end caps with glue.

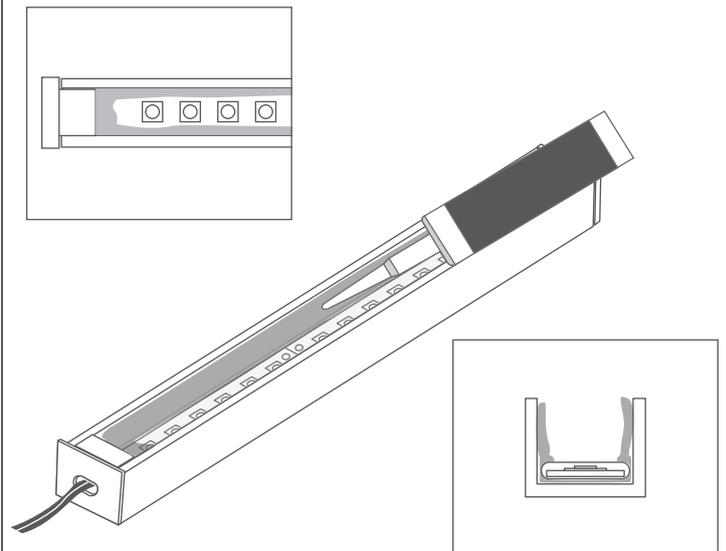


3. Apply a silicone layer to the bottom of the profile and embed the LED strip in it.

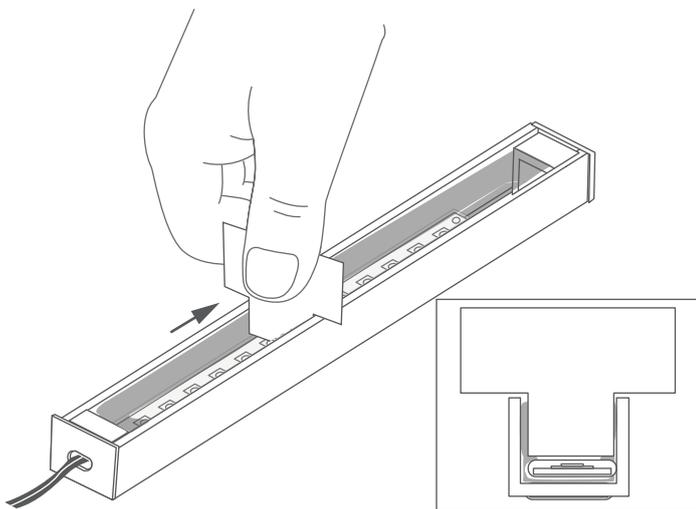
NOTE: The LED strip must have separate protection against moisture. We recommend a silicone sleeve or heat shrink tubing if the strip in the sleeve does not fit into the extrusion.



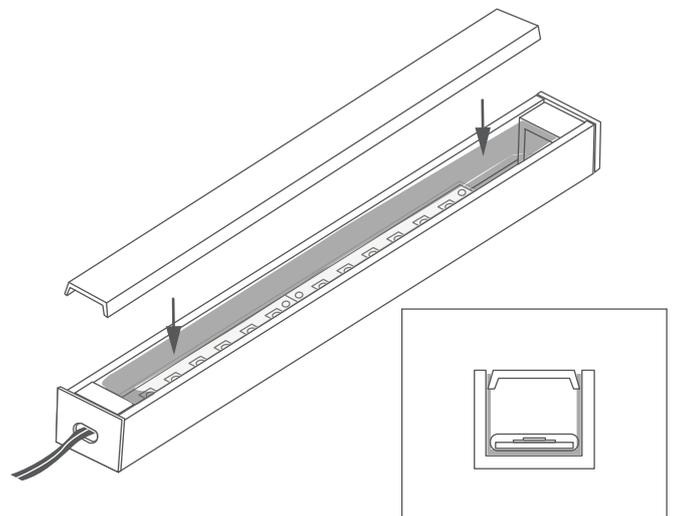
4. Apply a second layer of silicone on the extrusion walls and the end caps.



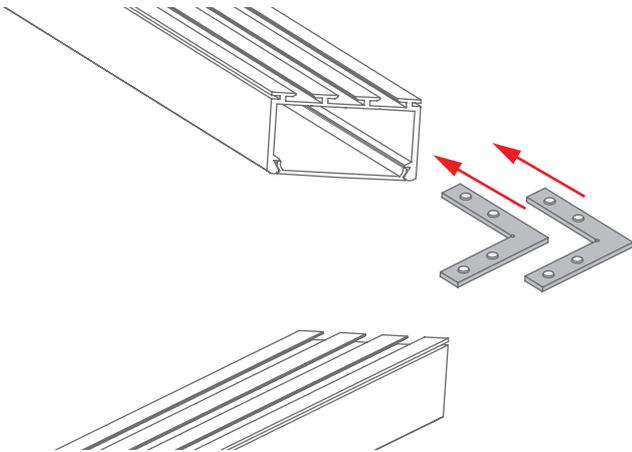
5. Remove the excess silicone with a rectangular tool (e.g. a piece of cardboard), taking care not to damage the tape. The silicone layer must be even and must not obscure the LEDs.



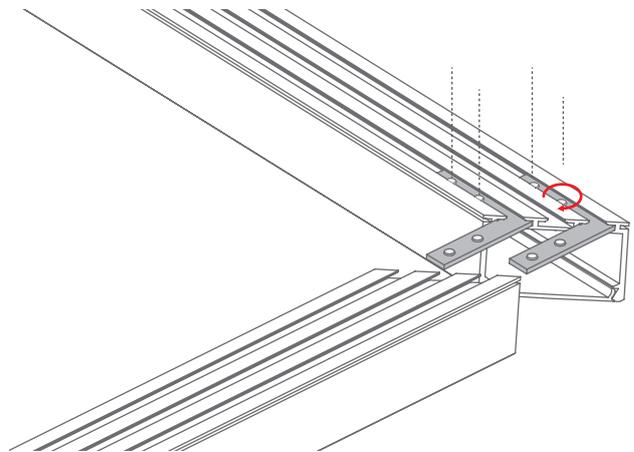
6. Insert the cover.



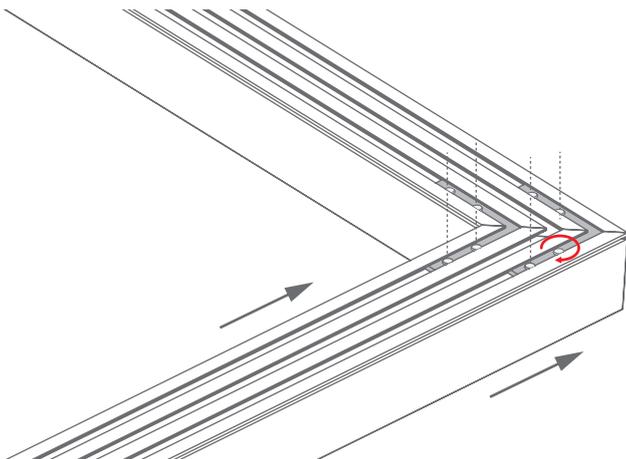
1. Slide the connectors into the small locks of the extrusion.

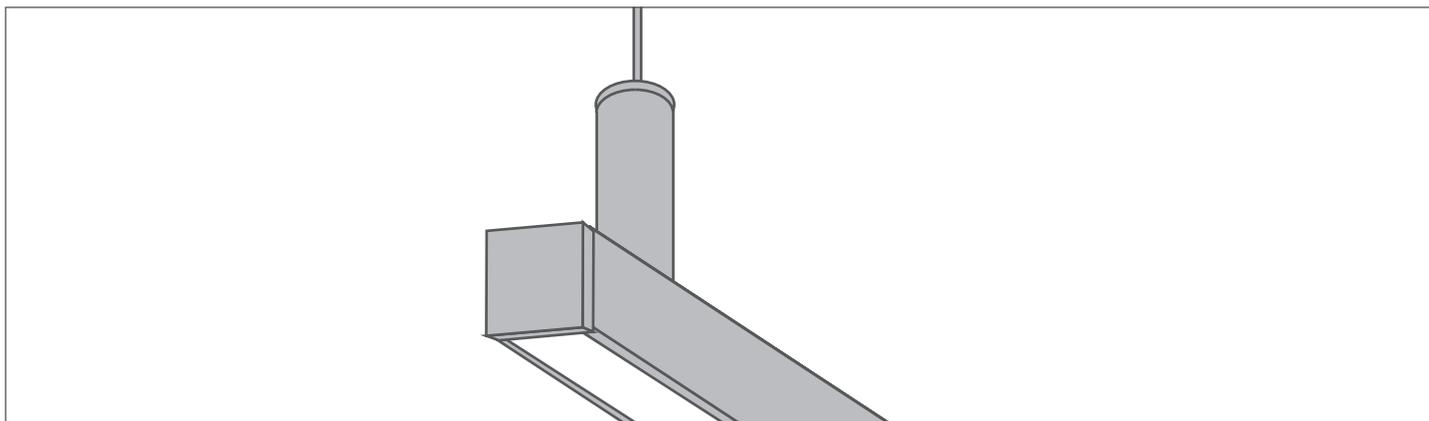


2. Tighten the two pressure screws in each connector with an Allen wrench.



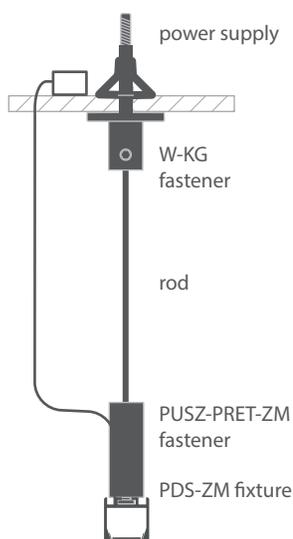
3. Slide the other half of the extrusion onto the connectors and tighten the pressure screws with an Allen wrench.



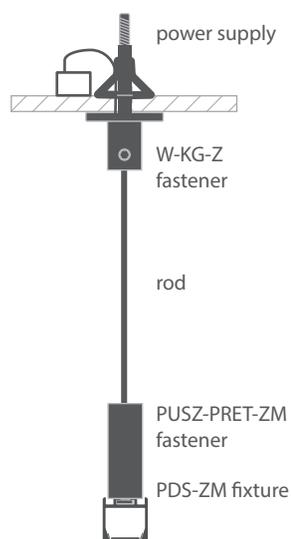


Instruction includes methods of montage:

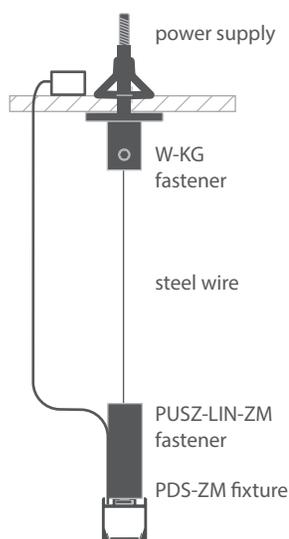
1) Rod - non-conductive (drop lead)



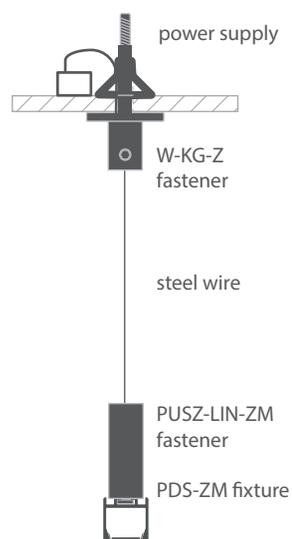
2) Rod - conductive driven power supply



3) Wire - non-conductive (drop lead)



4) Wire - Rod - conductive driven power supply



Tools needed for mounting:

- drill
- pliers
- allen wrench
- soldering iron

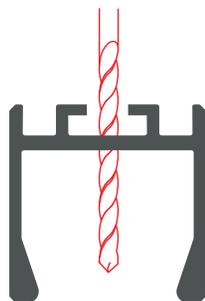
NOTE! All LED strips must be connected to a 12 V or 24 V power supply.

IMPORTANT: The manual presents the simplest mounting procedure.
More mounting procedures and related accessories can be found at klusdesign.eu

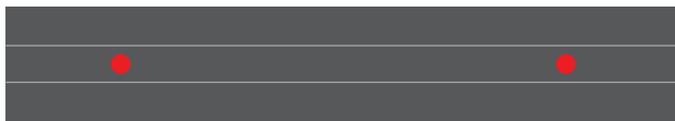
*If fully built fixtures are ordered and received from KLUS please skip to #3

1. Drill the holes in the PDS-ZM extrusion to mount the PUSZ-PRET-ZM fasteners.

cross-section

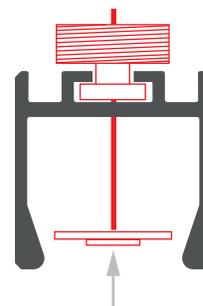


top view

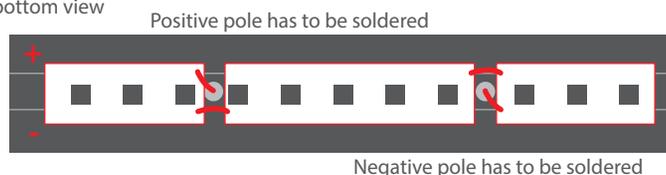


2. Mount the LED strip in the extrusion and lead the cables through pre-drilled holes and threaded plugs of the PUSZ-PRET-ZM fasteners. Each hole should lead a cable with one power pole, LED strip has to be cut before installation, so the wires can be easily routed to the holes.

cross-section

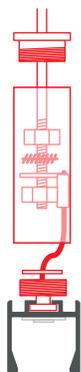


bottom view



3. Connect the wires to the Install the power connectors of the PUSZ-PRET-ZM fasteners and install the whole fasteners with rods on the PDS-ZM extrusion. The fastener installation manual can be downloaded at www.klusdesign.eu.

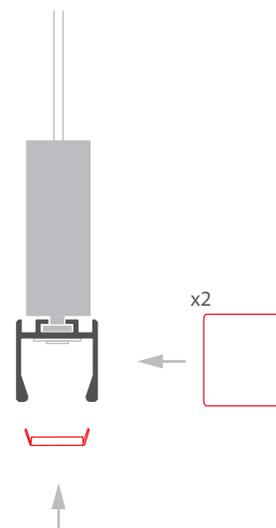
cross-section



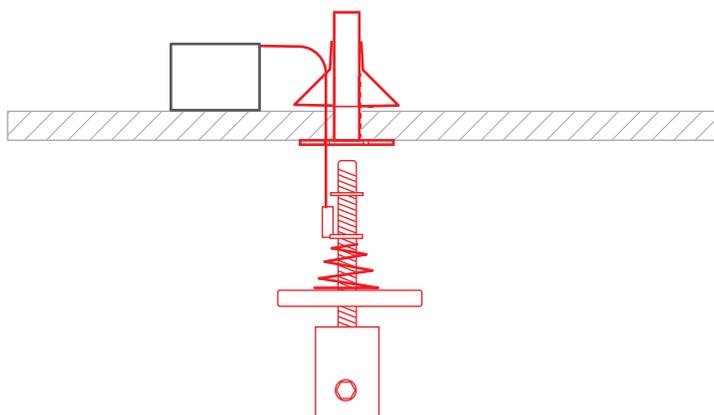
top view



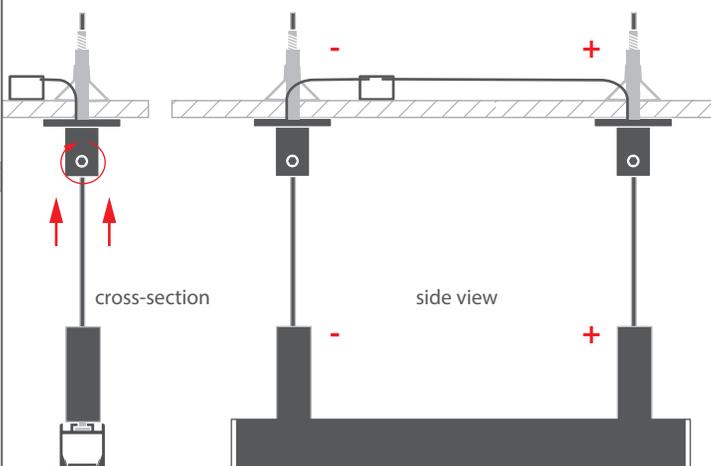
4. Install the cover and both end caps.



5. Install the W-KG-Z ceiling fasteners. The fastener installation manual can be downloaded at www.klusdesign.eu. Connect the cables, each for the single power pole to the fasteners. The cables should go through a pre-drilled hole just under the masking cover of the fastener.



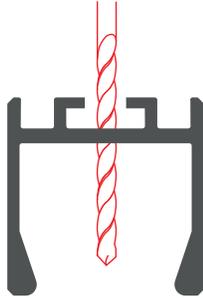
6. Mount the fixture with rods into the ceiling fasteners. Mind that the power poles connected to the rods should match the ones connected to the fasteners.



*If fully built fixtures are ordered and received from KLUS please skip to #3

1. Drill the holes in the PDS-ZM extrusion to lead the power cable.

cross-section

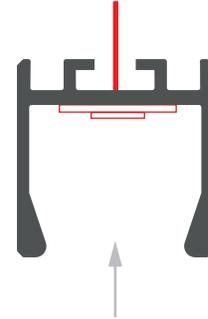


top view

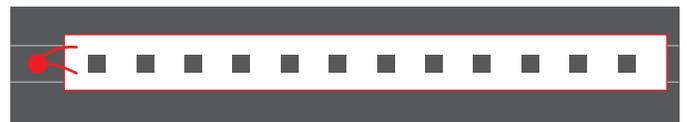


2. Mount the LED strip in the extrusion and lead the cable through a pre-drilled hole.

cross-section



bottom view



3. Install the PUSZ-PRET-ZM fasteners with rods on the PDS-ZM extrusion. The fastener installation manual can be downloaded at www.klusdesign.eu.

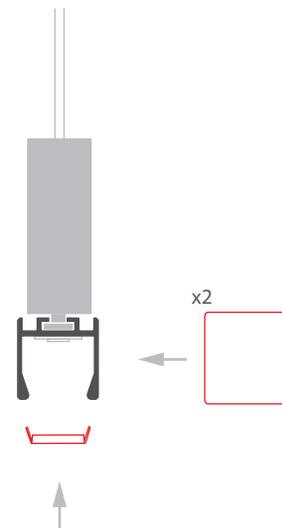
cross-section



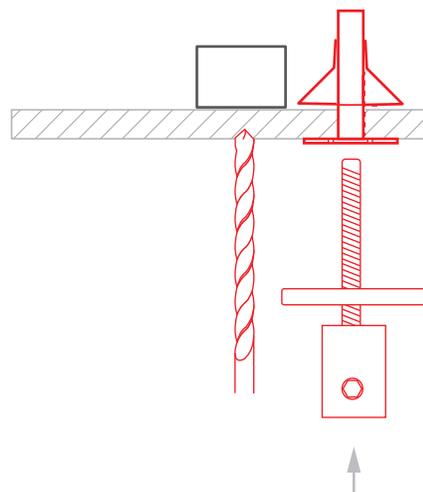
top view



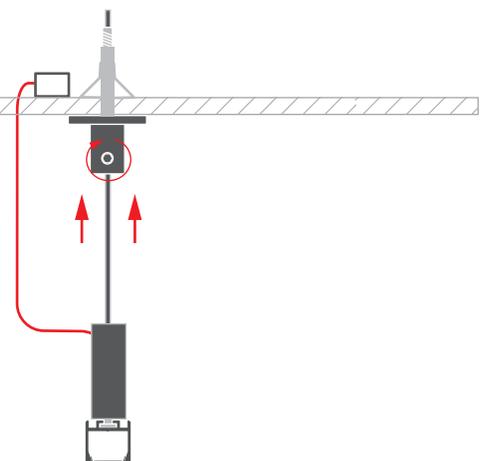
4. Install the cover and both end caps.



5. Install the W-KG ceiling fasteners. The fastener installation manual can be downloaded at www.klusdesign.eu. Place the power supplier next to the fastener and drill the ceiling to lead the cable to it.



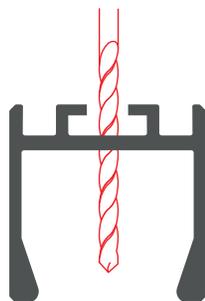
6. Mount the fixture with rods into the ceiling fasteners. Connect the cable to the power supplier, leading it through a pre-drilled hole in the ceiling.



*If fully built fixtures are ordered and received from KLUS please skip to #3

1. Drill the holes in the PDS-ZM extrusion to lead the power cable.

cross-section

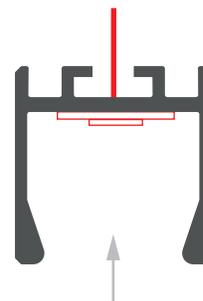


top view

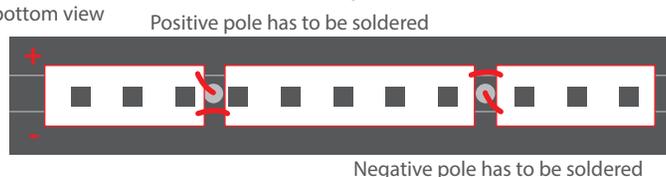


2. Mount the LED strip in the extrusion and lead the cable through a pre-drilled hole.

cross-section

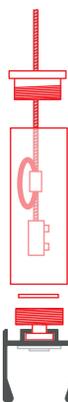


bottom view

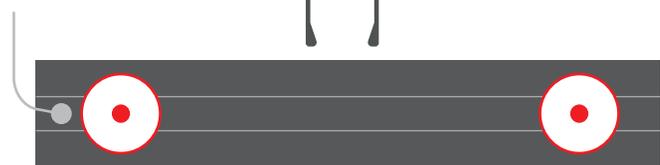


3. Install the PUSZ-LIN-ZM fasteners with steel wires on the PDS-ZM extrusion. The fastener installation manual can be downloaded at www.klusdesign.eu.

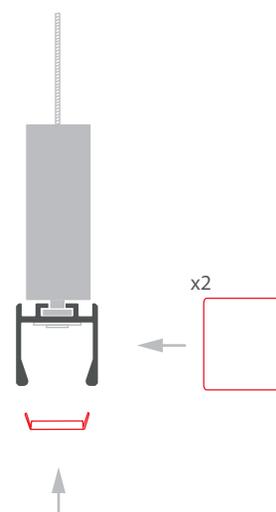
cross-section



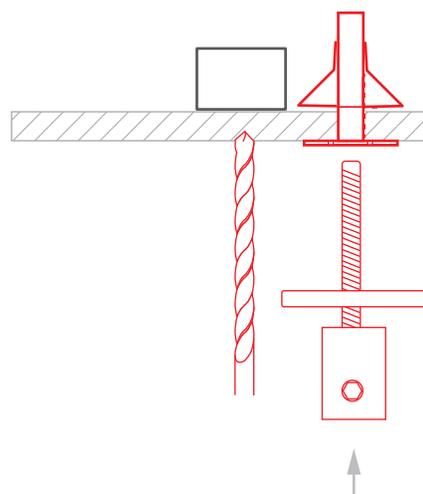
top view



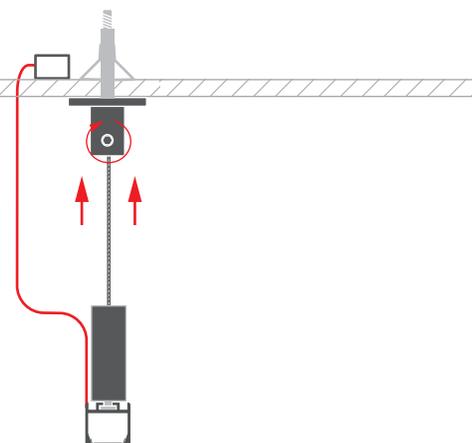
4. Install the cover and both end caps.



5. Install the W-KG ceiling fasteners. The fastener installation manual can be downloaded at www.klusdesign.eu. Place the power supplier next to the fastener and drill the ceiling to lead the cable to it.



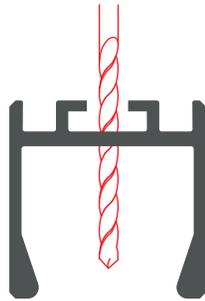
6. Mount the fixture with steel wires into the ceiling fasteners. Connect the cable to the power supplier, leading it through a pre-drilled hole in the ceiling.



*If fully built fixtures are ordered and received from KLUS please skip to #3

1. Drill the holes in the PDS-ZM extrusion to mount the PUSZ-LIN-ZM fasteners.

cross-section

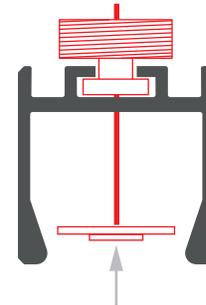


top view

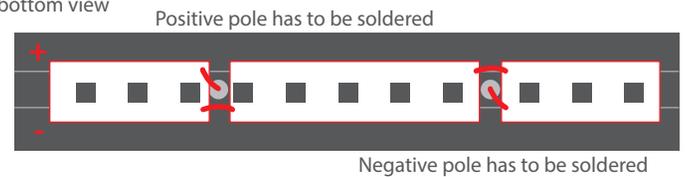


2. Mount the LED strip in the extrusion and lead the cables through pre-drilled holes and threaded plugs of the PUSZ-LIN-ZM fasteners. Each hole should lead a cable with one power pole, LED strip has to be cut before installation, so the wires can be easily routed to the holes.

cross-section

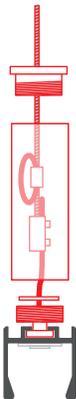


bottom view



3. Connect the wires to the Install the power connectors of the PUSZ-LIN-ZM fasteners and install the whole fasteners with steel wires on the PDS-ZM extrusion. The fastener installation manual can be downloaded at www.klusdesign.eu.

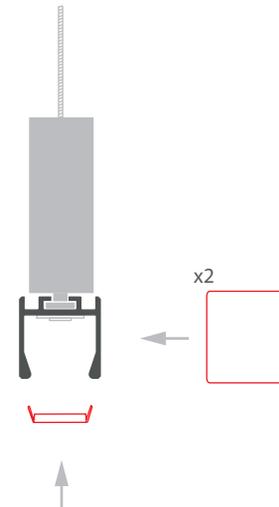
cross-section



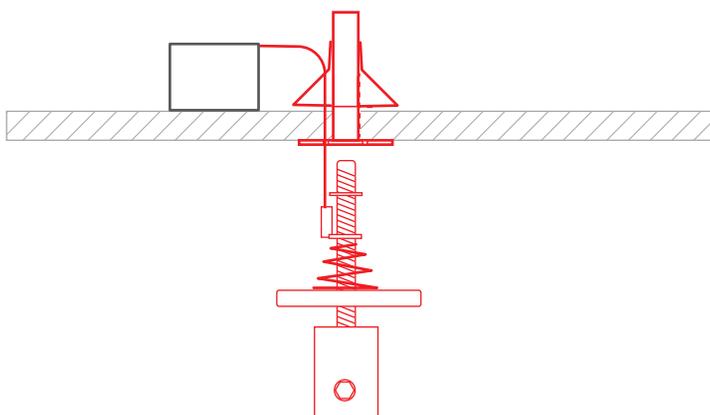
top view



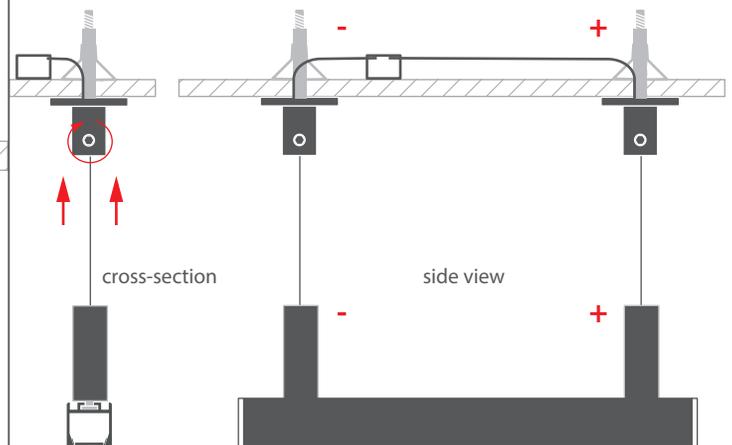
4. Install the cover and both end caps.

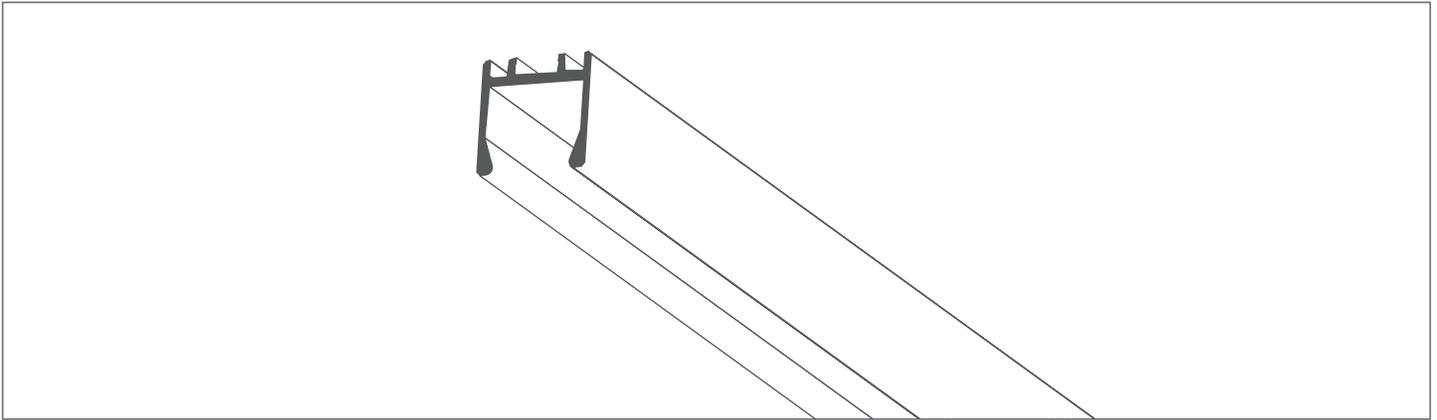


5. Install the W-KG-Z ceiling fasteners. The fastener installation manual can be downloaded at www.klusdesign.eu. Connect the cables, each for the single power pole to the fasteners. The cables should go through a pre-drilled hole just under the masking cover of the fastener.



6. Mount the fixture with steel wires into the ceiling fasteners. Mind that the power poles connected to the steel wires should match the ones connected to the fasteners.





Parts needed to mount the PDS-ZM extrusion



Extrusion (A)



LED strip (B)



Cover (C)



End caps (D)



Spring (E)

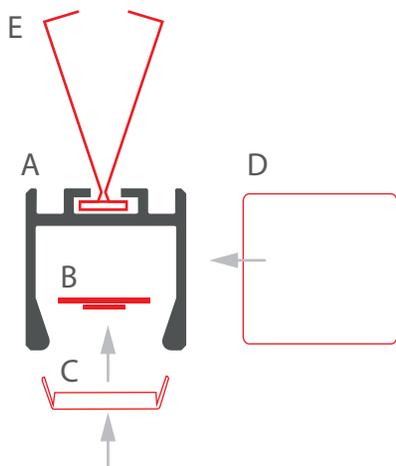
Tools needed for mounting:

- mounting glue

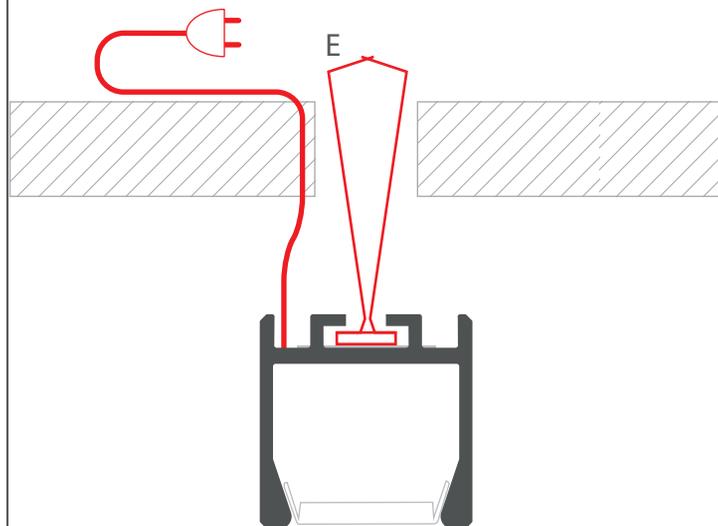
WARNING! All LED strips should be connected to a 12 V or 24 V power supply.

IMPORTANT: The mounting instructions present the basic form of assembly. More methods and related accessories can be found at www.KlusDesign.eu

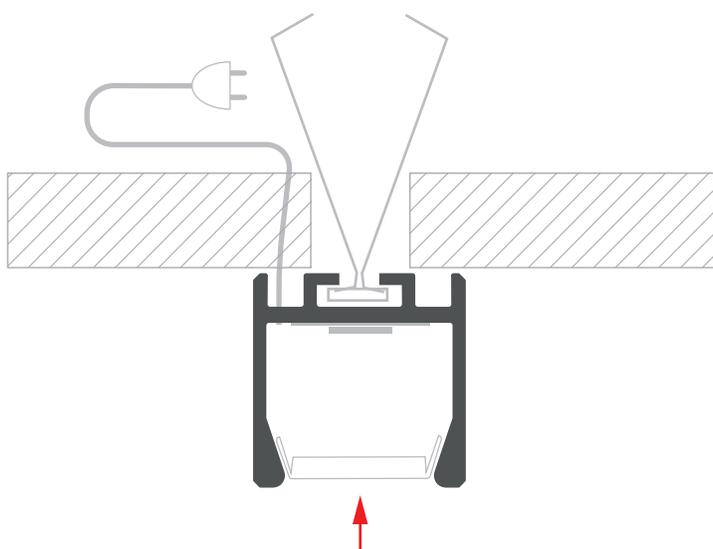
1. Install the LED strip (B) in the extrusion (A), insert the cover (C), end caps (D) and springs (E).



2. Connect the power cable. Insert the springs (E) into the holes.



3. Push the extrusion to the surface.



PRODUCT DESCRIPTION

- Minimum dimensions to obtain a line of light
- Equipped with a small lock that allows the use of system fasteners and extrusion connectors
- Multiple applications

FINISH :

Silver anodized 

Fill empty fields

Product nr.	
Fixture type	
Company	
Job name	
Date	

TECHNICAL SPECIFICATION

Application

- for use in interior architecture in numerous configurations
- small lock facilitates building long linear, suspended, and polygonal lighting fixtures
- the sealed version can be used in external applications

Assembly

- mounted to the surface with appropriate mounting adhesives, mounting springs or screws
- can be suspended using UCHO-ZM eye hangers, PUSZ system

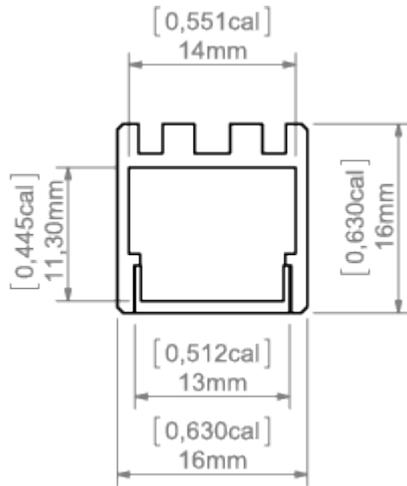
Additional information

- the profile is suitable for bending into gentle arches, in the plane adjacent to the LED strip
- can be equipped with transparent and frosted covers, as well as aluminum-colored or metallized plastic end caps

AVAILABLE LENGTHS

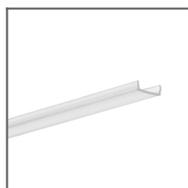
Ref. nr.	surface finish	available lengths
B7696ANODA_1	Silver anodized	1000 mm
B7696ANODA_2	Silver anodized	2000 mm

Ref. nr.	surface finish	available lengths
B7696ANODA_3	Silver anodized	3000 mm

TECHNICAL DRAWING

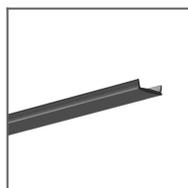
RELATED PRODUCTS

COVERS



KA clear Cover
Ref: 17036

60°



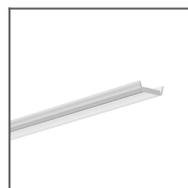
LIGER black Cover
Ref: 17040

90°



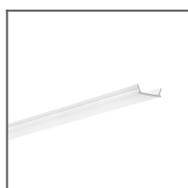
KA frosted Cover
Ref: 17035

90°



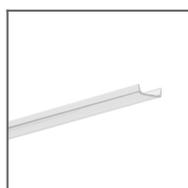
HS clear Cover
Ref: 1370

50°



KA-PRO frosted Cover
Ref: 17064

100°



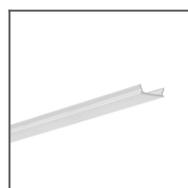
KA-COM clear Cover
Ref: 17122

70°



HS frosted Cover
Ref: 1369

100°



KA-PRO clear Cover
Ref: 17065

50°



KA-COM frosted Cover
Ref: 17121

100°

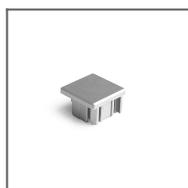


LIGER frosted Cover
Ref: 17037

120°



END CAPS



PDS-ZM metalized
End cap
Ref: 24254

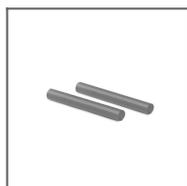


PDS-ZM grey End
cap
Ref: 24145

ACCESSORIES



UCHO-ZM
Fastener
Ref: 42512



ZM Block
Ref: 42520



DP-ZO Fastener
Ref: 00649



DP-ZZ Fastener
Ref: 00651



FI-10-ZM-P
Fastener
Ref: 42244



FI-10-ZM-W
Fastener
Ref: 42242



PUSZ-LIN-ZM
Fastener
Ref: 42256



PUSZ-PRET-ZM
Fastener
Ref: 42250



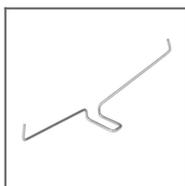
BZP Head
Ref: 42213



BZP-ZO Head
Ref: 42214



BZP-ZZ Head
Ref: 42215



GP Spring
Ref: 00293



M11 Fastener set
Ref: 42609



M12 Fastener set
Ref: 42610



M13 Fastener set
Ref: 42611



W1 Fastener set
Ref: 42602



W2 Fastener set
Ref: 42603



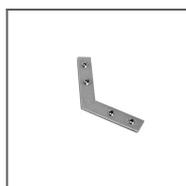
W6 Fastener set
Ref: 42604



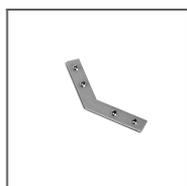
W7 Fastener set
Ref: 42605



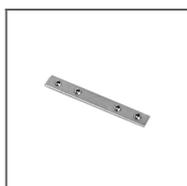
8,8x1,2 Gland
Ref: 00802



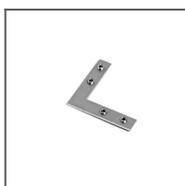
ZM-120
Connector
Ref: 42728



ZM-135
Connector
Ref: 42720



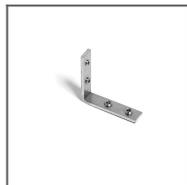
ZM-180
Connector
Ref: 42717



ZM-90 Connector
Ref: 42716



ZM-PION-135
Connector
Ref: 42719



ZM-PION-90
Connector
Ref: 42718

MARKETING MATERIALS



Presentation set 6
Ref: 90125