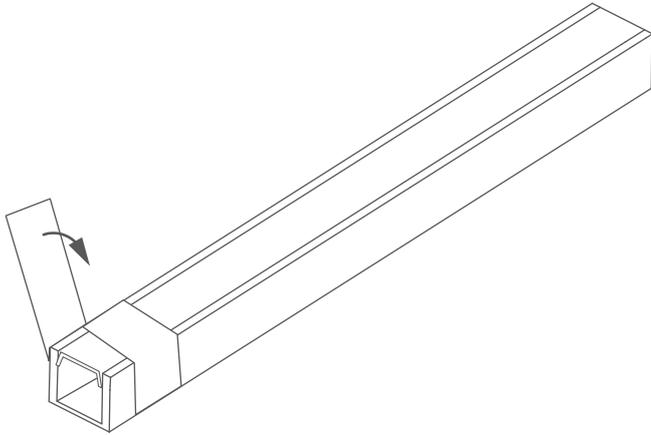


Spis treści / Table of contents

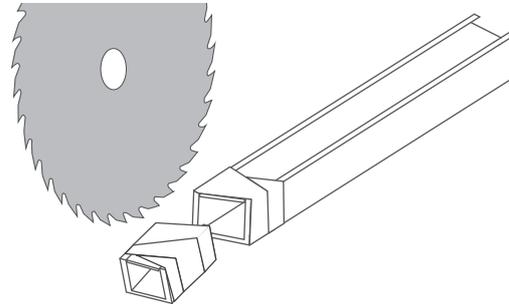
Cutting and drilling.....	p.2
Adhering and connecting LED strips.....	p.3
Attaching covers and end caps.....	p.4
Sealing the extrusion.....	p.5
Connecting extrusions using ZM connectors.....	p.6

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



2. Use a mechanical saw to cut.

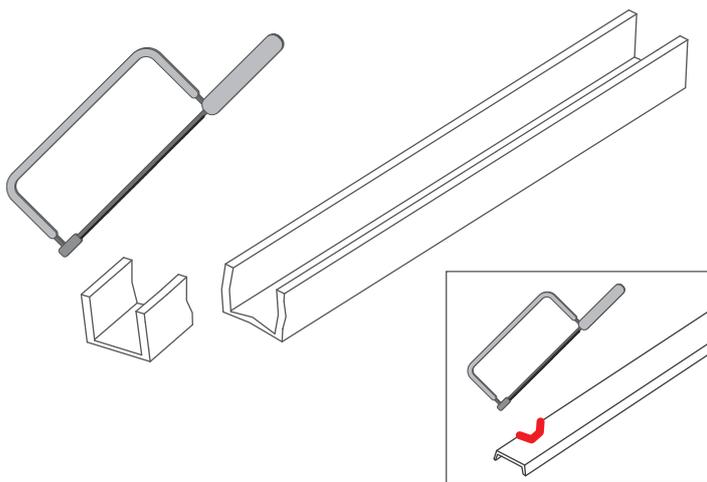
NOTE! It is recommended that the cover be cut 2 mm shorter than the extrusion to account for its thermal expansion.



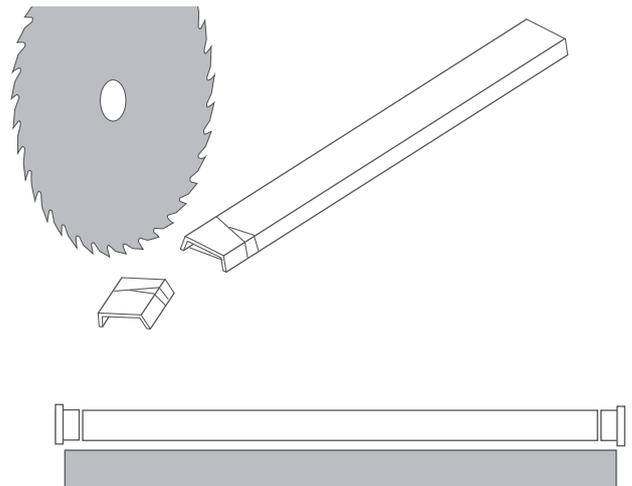
- 2mm



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.

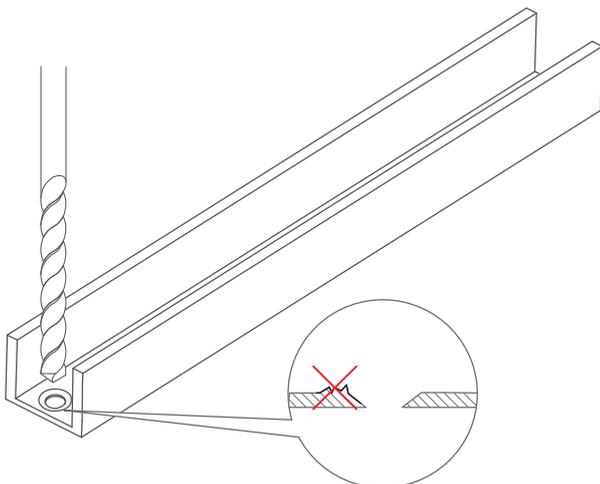


NOTE! For some extrusions there are dedicated end caps that require adequate shortening of the cover.

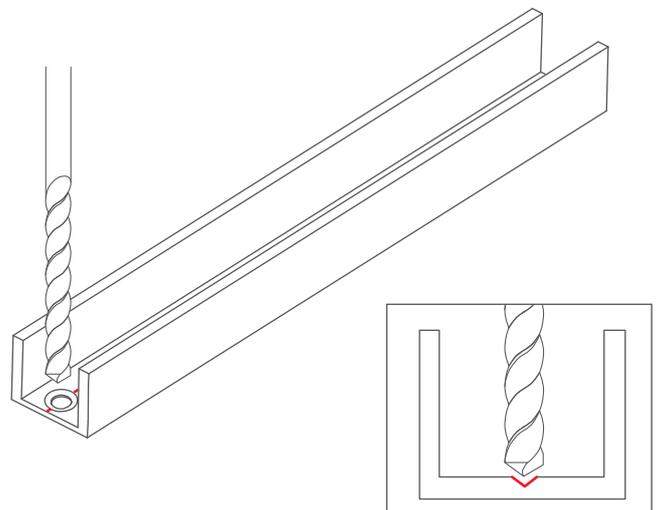


3. Drill a hole in the extrusion in the selected place.

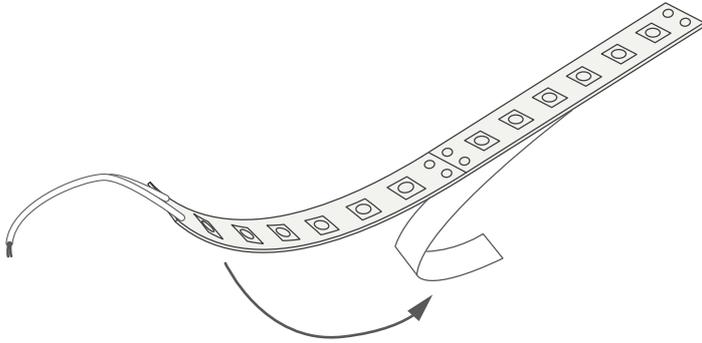
NOTE! Make sure that there are no burrs around the hole after drilling as they can damage the LED strip or cable.



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

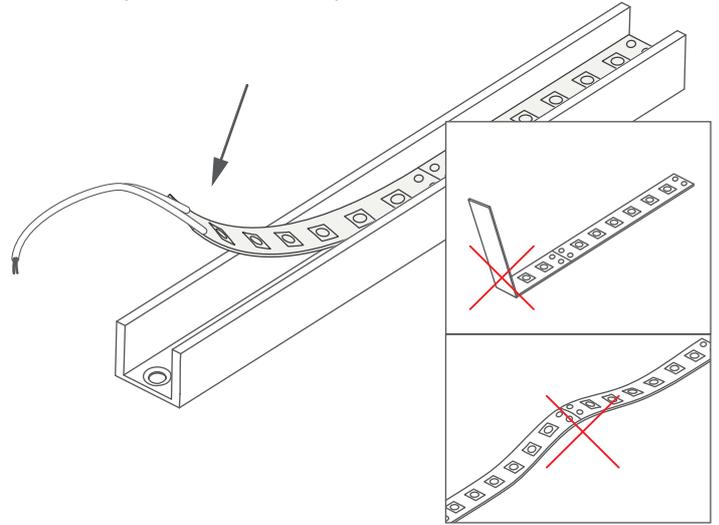


1. Remove the protective layer of the LED strip.

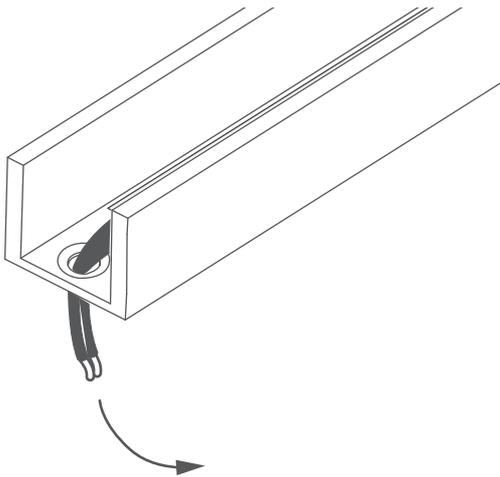


2. Attach the tape in the extrusion using the adhesive provided on the LED strip.

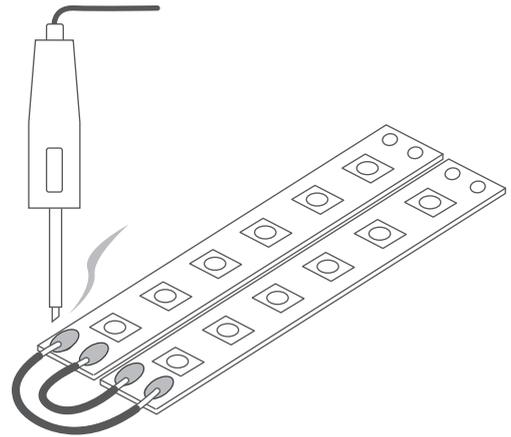
NOTE! The tape must not be bent or peel off the surface.



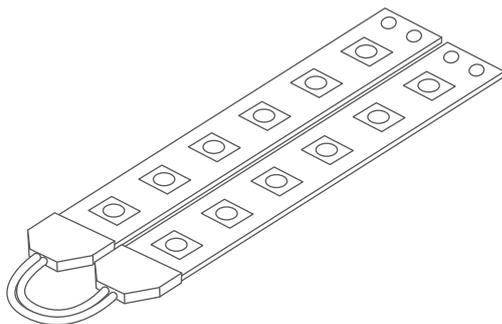
3. Lead the power cable through the drilled hole.



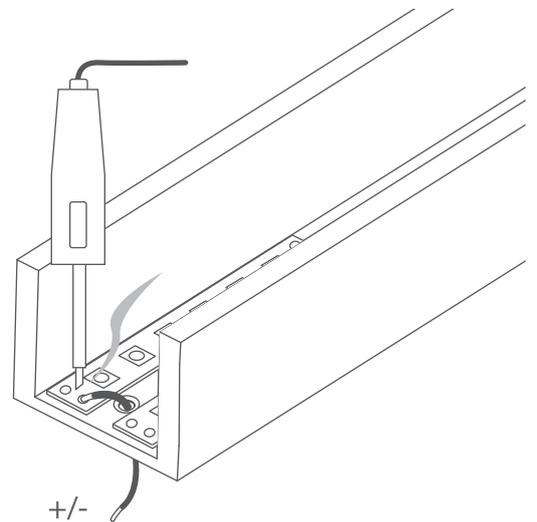
4. Connect the LED strips with wires by soldering.



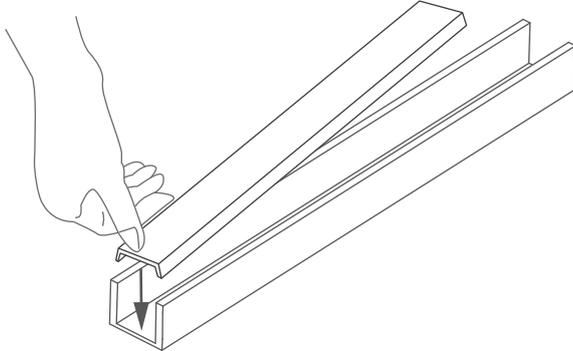
OPTIONALLY: The LED strips can also be connected using a system of LED strip connectors. More information at www.klusdesign.eu



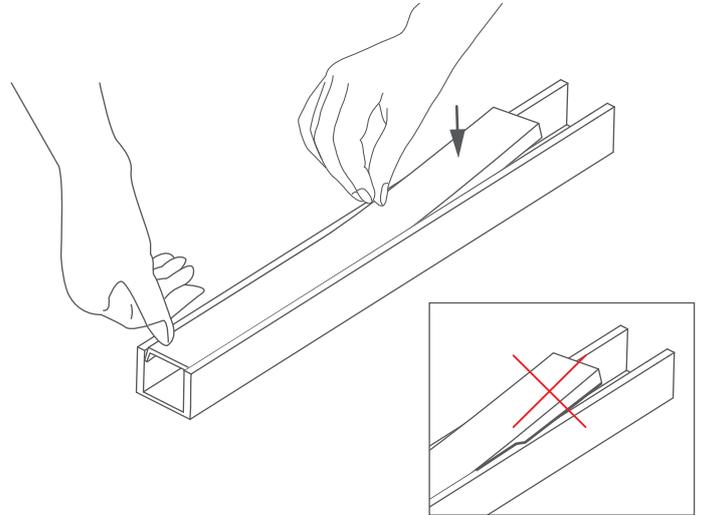
OPTIONALLY: The power cords can be led out from one pole of a given strip. This method is used to power suspended lighting fixtures.



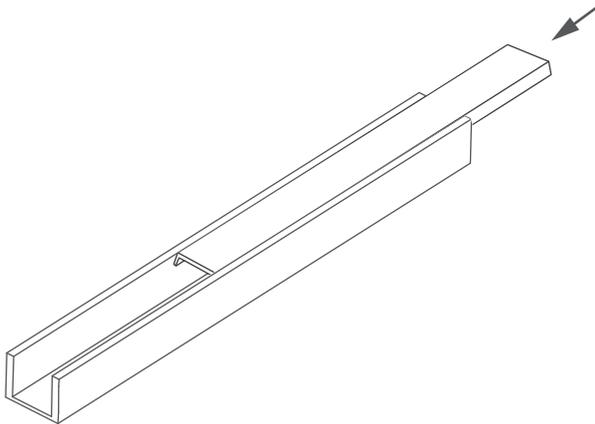
1. Insert the tip of the cover into the extrusion.



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

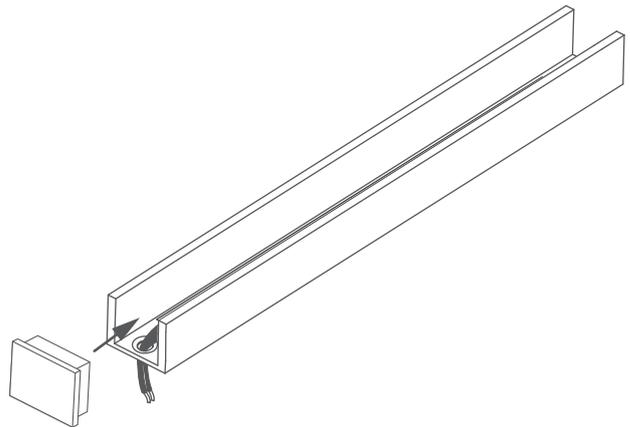


OPTIONALLY: Short sections, can also be inserted from the edge of the extrusion.

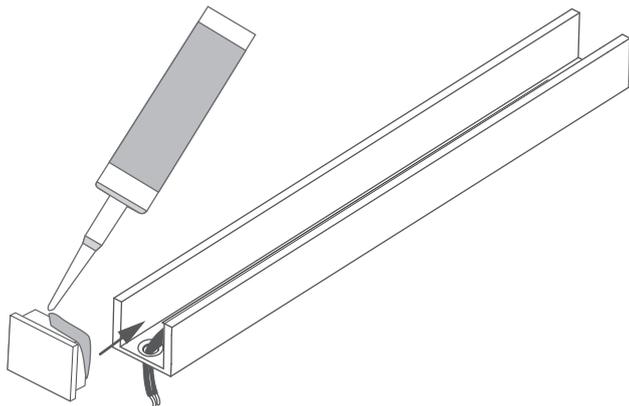


3. Insert an end cap into the edge of the extrusion. Individual extrusions have a shape that allows easy installation of dedicated end caps.

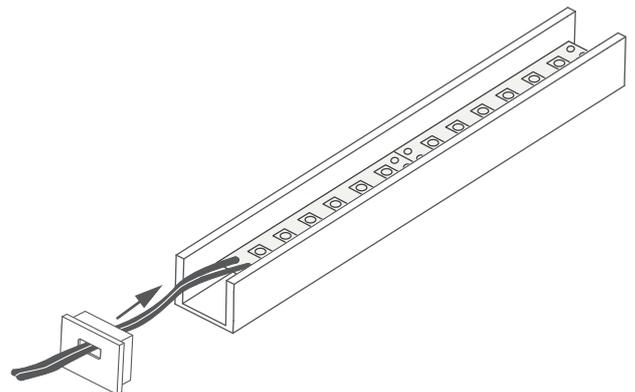
NOTE! Some end caps require an adequately shortened cover. This should be taken into account when cutting the extrusion and the cover.



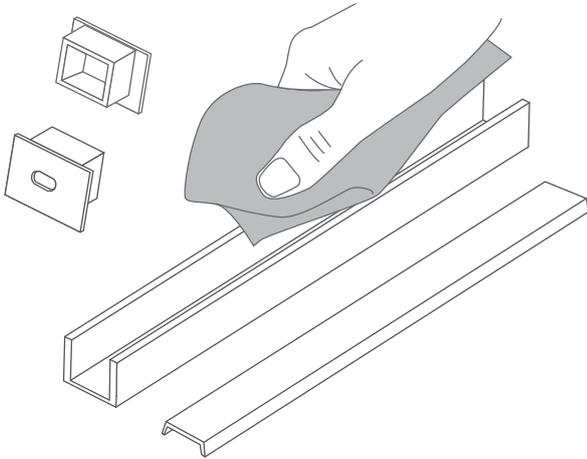
OPTIONALLY: The end caps can be attached to the extrusion using glue.



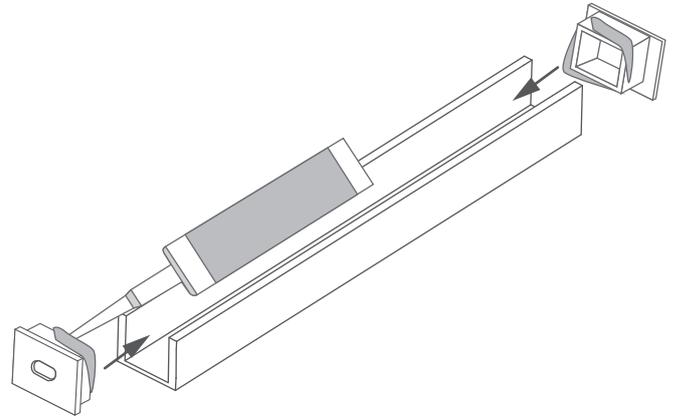
OPTIONALLY: Power cables can be run through the end caps in which case the extrusion does not need to be drilled through.



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

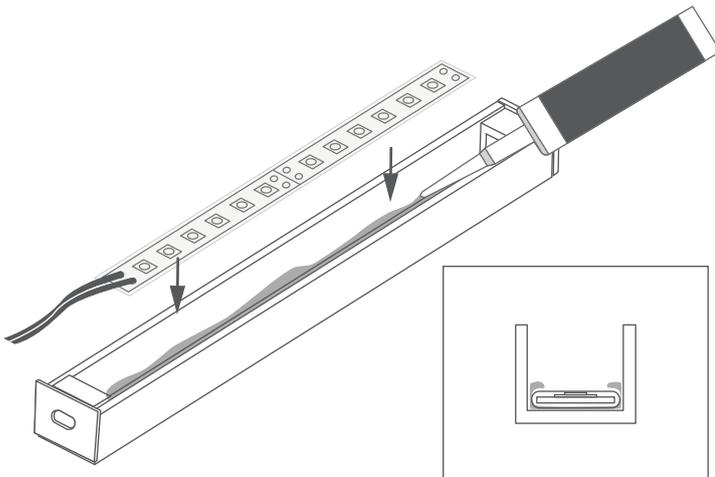


2. Attach the end caps with glue.

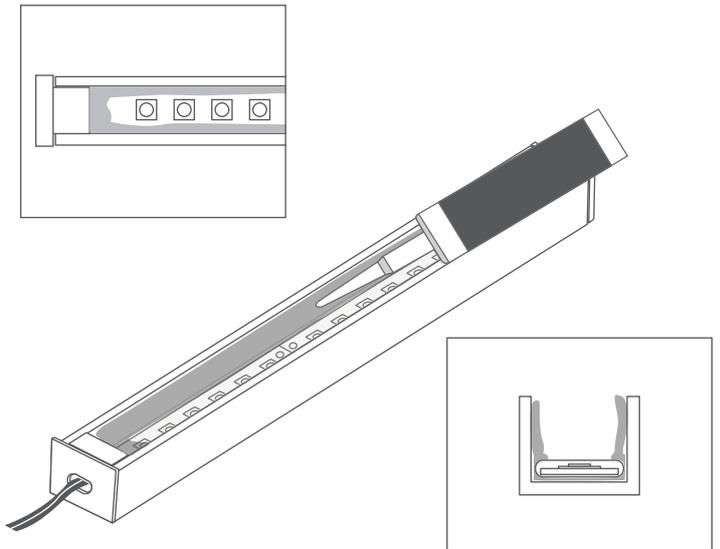


3. Apply a silicone layer to the bottom of the profile and embed the LED strip in it.

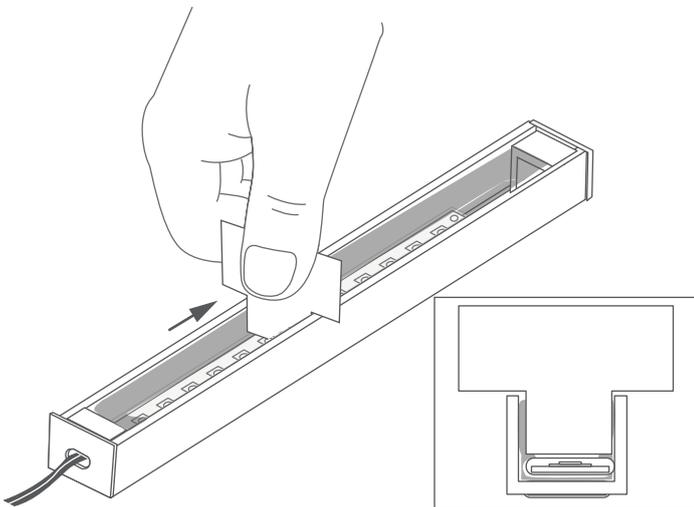
NOTE: The LED strip must have separate protection against moisture. We recommend a silicone sleeve or heat shrink tubing if the strip in the sleeve does not fit into the extrusion.



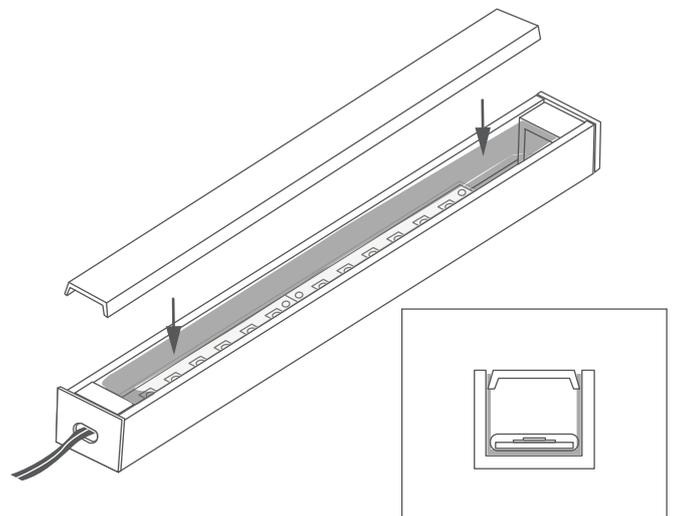
4. Apply a second layer of silicone on the extrusion walls and the end caps.



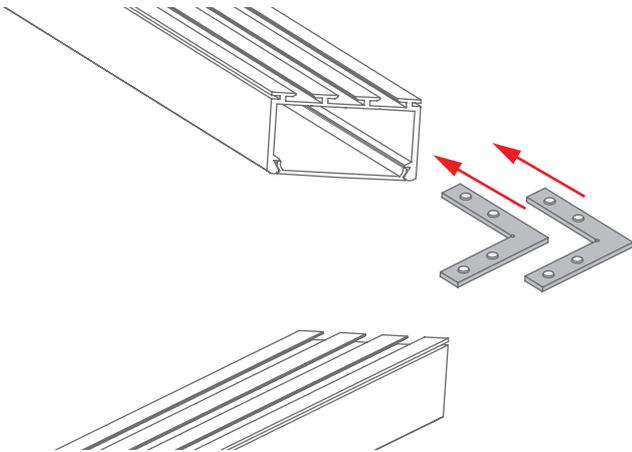
5. Remove the excess silicone with a rectangular tool (e.g. a piece of cardboard), taking care not to damage the tape. The silicone layer must be even and must not obscure the LEDs.



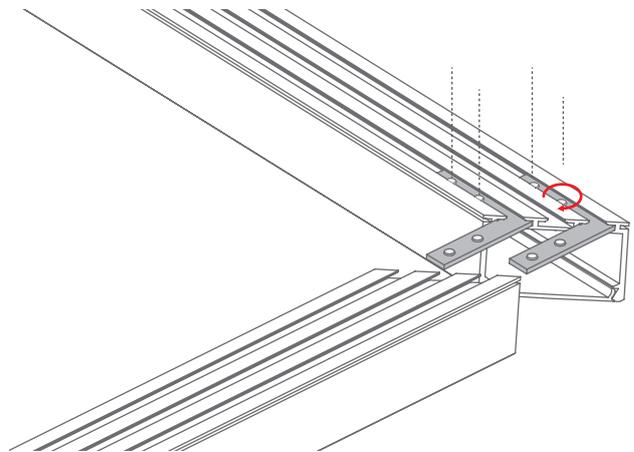
6. Insert the cover.



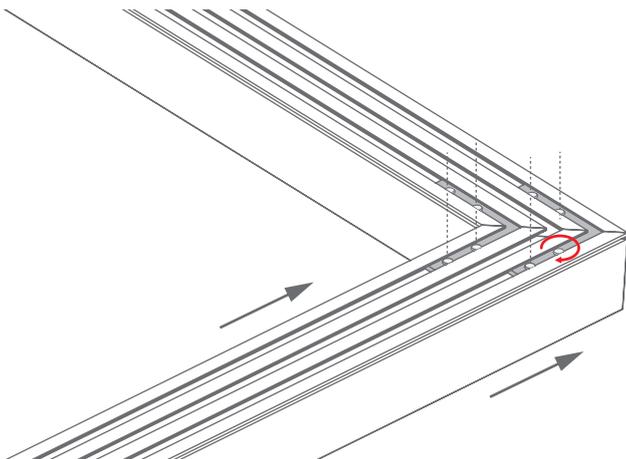
1. Slide the connectors into the small locks of the extrusion.

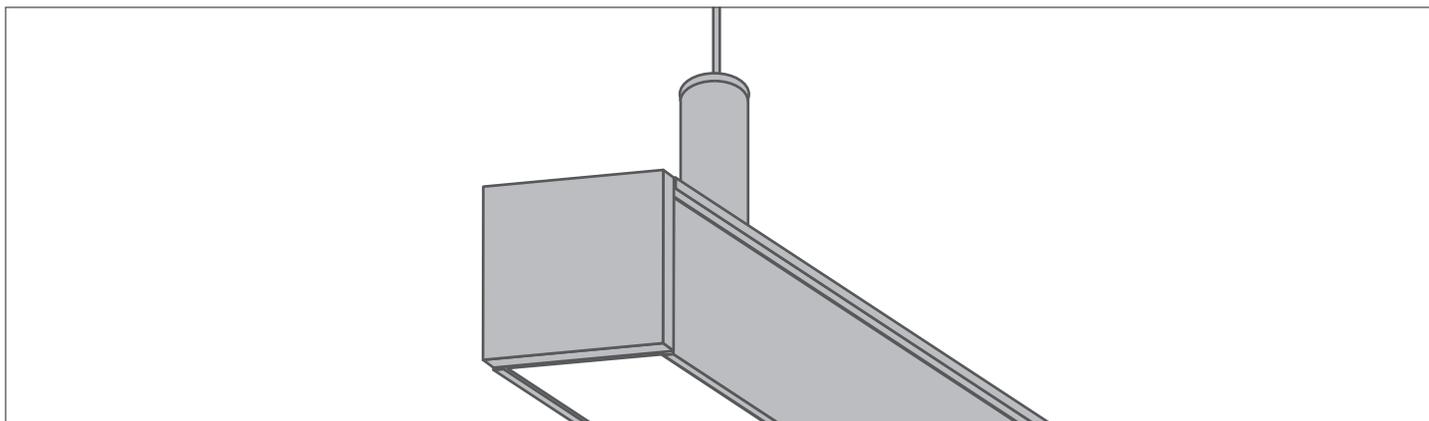


2. Tighten the two pressure screws in each connector with an Allen wrench.



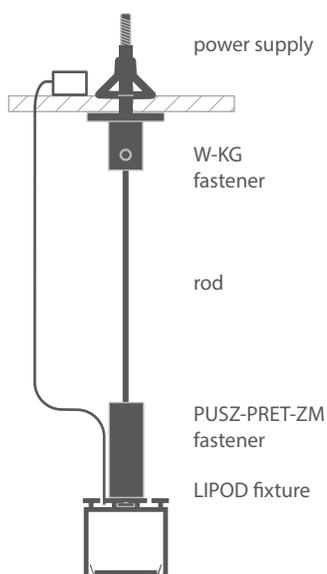
3. Slide the other half of the extrusion onto the connectors and tighten the pressure screws with an Allen wrench.



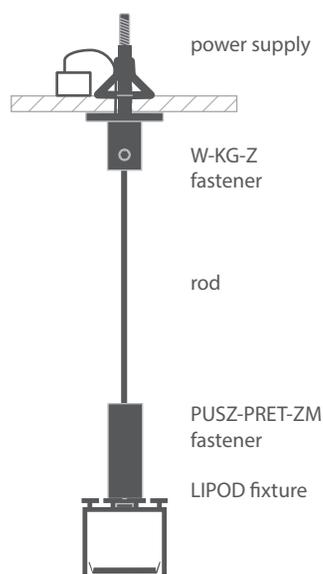


Instruction includes methods of mounting:

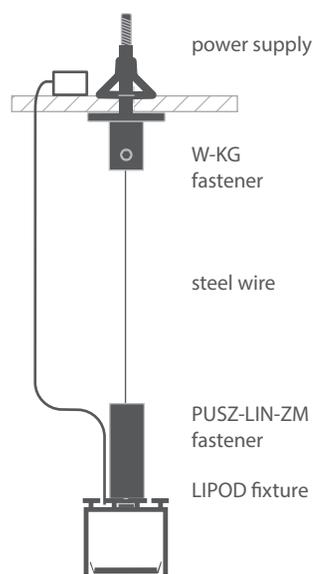
1) Rod - non-conductive (drop lead)



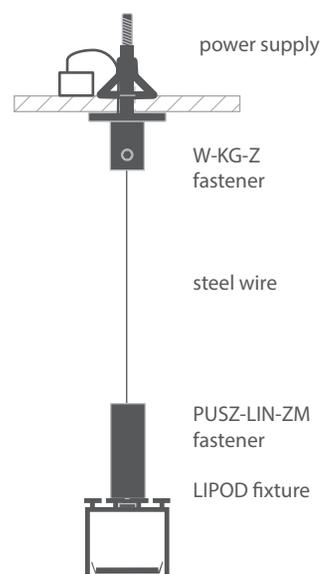
2) Rod - conductive driven power supply



3) Wire - non-conductive (drop lead)



4) Wire - Rod - conductive driven power supply



Tools needed for mounting:

- drill
- pliers
- allen wrench
- soldering iron

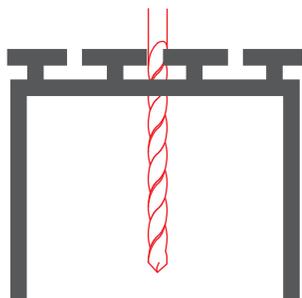
NOTE! All LED strips must be connected to a 12 V or 24 V power supply.

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 LIPOD extrusion to mount the PUSZ-PRET-ZM fasteners.

cross-section

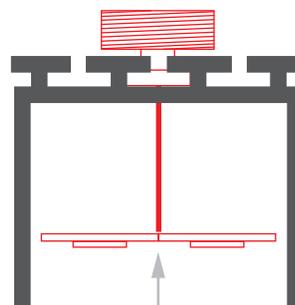


top view

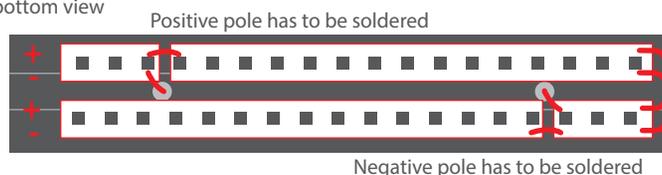


2. Mount the LED strip in the extrusion and lead the cables through pre-drilled holes and threaded plugs of the PUSZ-PRET-ZM fasteners. Each hole should lead a cable with one power pole, LED strip has to be cut before installation, so the wires can be easily routed to the holes.

cross-section

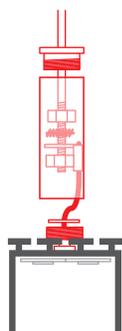


bottom view



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 LIPOD extrusion. The fastener installation manual can be downloaded at www.klusdesign.eu.

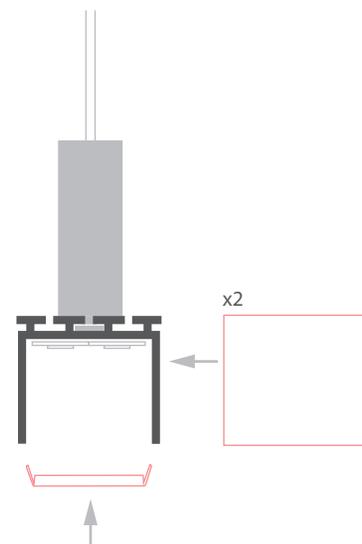
cross-section



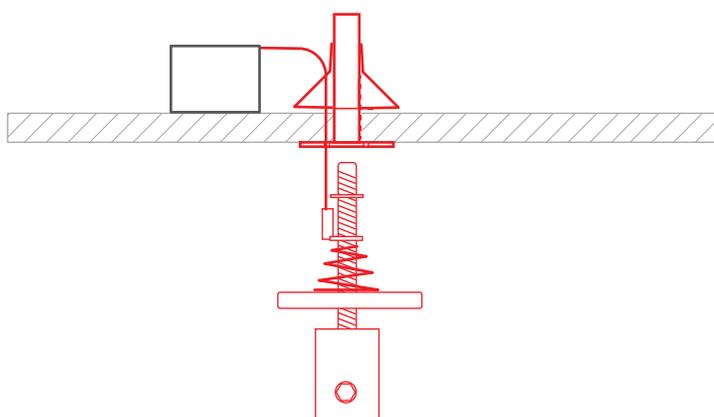
top view



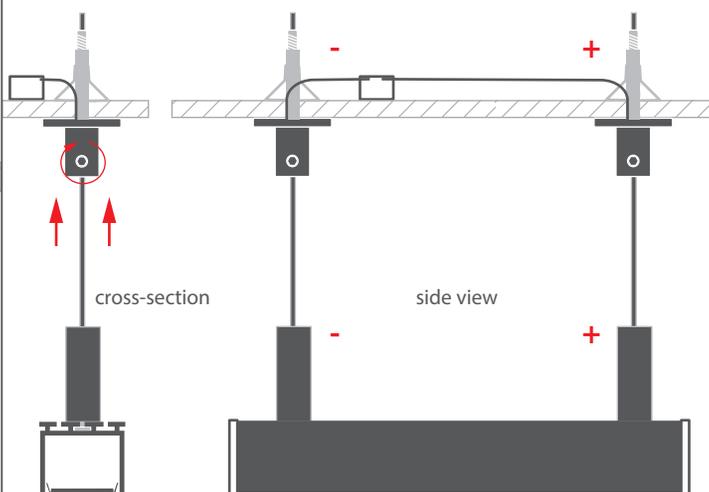
4. Install the cover and both end caps.



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.



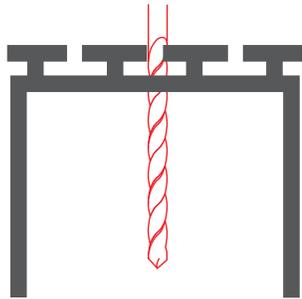
6. Mount the fixture with rods into the ceiling fasteners. Mind that the power poles connected to the rods should match the ones connected to the fasteners.



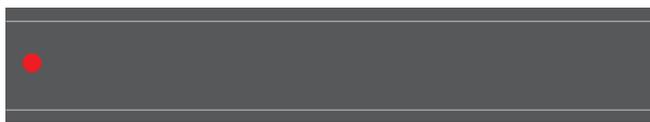
*If fully built fixtures are ordered and received from KLUS please skip to #3

1. Drill the holes in the LIPOD extrusion to lead the power cable.

cross-section

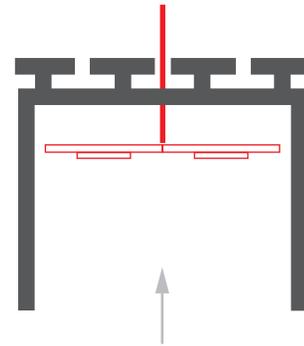


top view

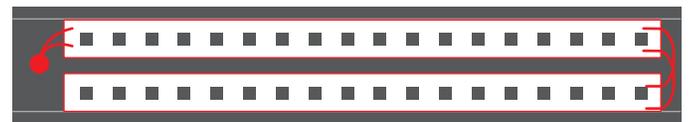


2. Mount the LED strip in the extrusion and lead the cable through a pre-drilled hole.

cross-section

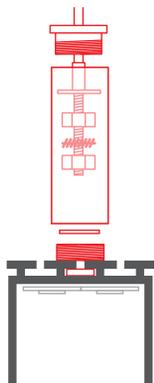


bottom view



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

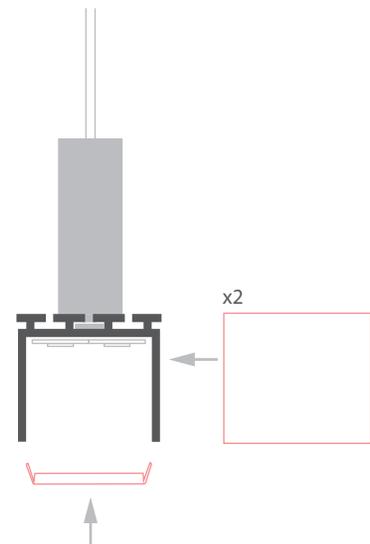
cross-section



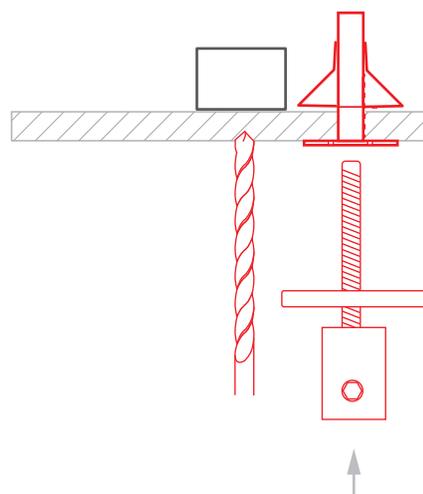
top view



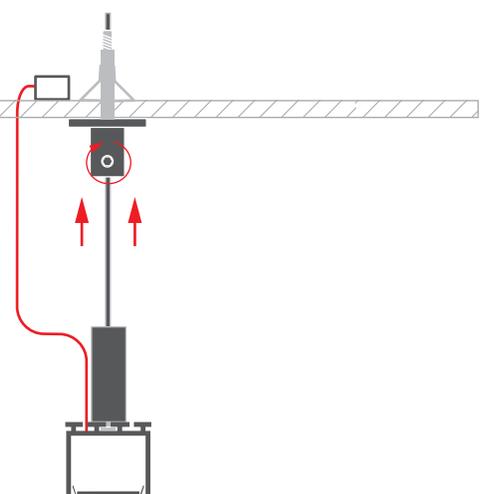
4. Install the cover and both end caps.



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.



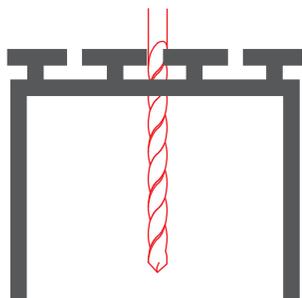
6. Mount the fixture with rods into the ceiling fasteners. Connect the cable to the power supplier, leading it through a pre-drilled hole in the ceiling.



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

1. Drill the holes in the LIPOD extrusion to lead the power cable.

cross-section

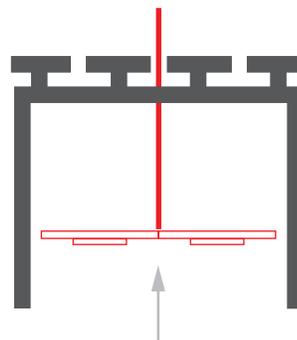


top view

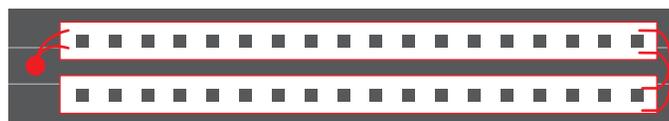


2. Mount the LED strip in the extrusion and lead the cable through a pre-drilled hole.

cross-section

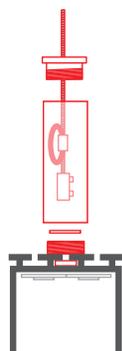


bottom view



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

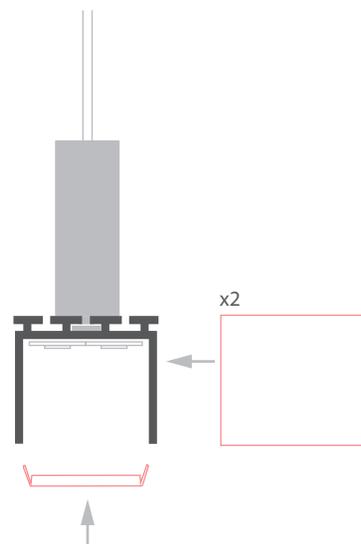
cross-section



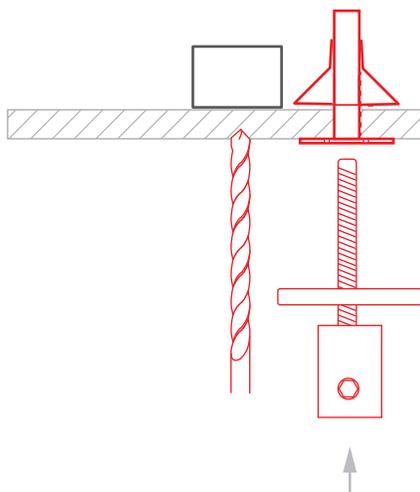
top view



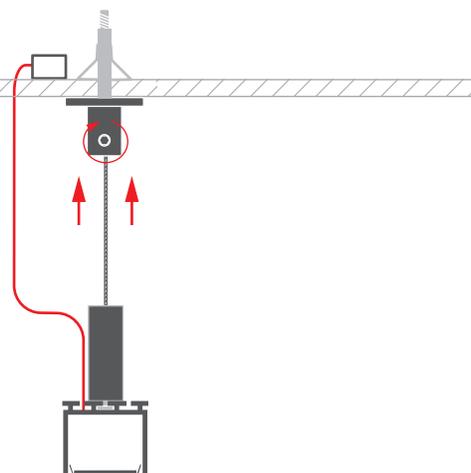
4. Install the cover and both end caps.



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.



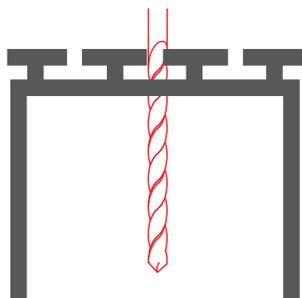
6. Mount the fixture with steel wires into the ceiling fasteners. Connect the cable to the power supplier, leading it through a pre-drilled hole in the ceiling.



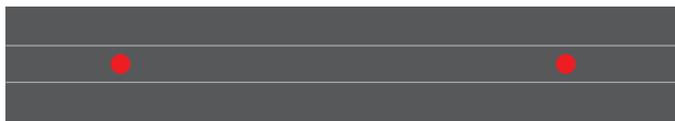
*If fully built fixtures are ordered and received from KLUS please skip to #3

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

cross-section

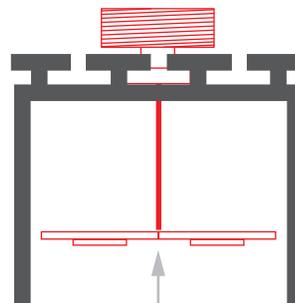


top view

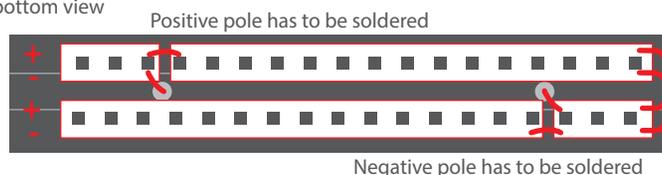


2. Mount the LED strip in the extrusion and lead the cables through pre-drilled holes and threaded plugs of the PUSZ-LIN-ZM fasteners. Each hole should lead a cable with one power pole, LED strip has to be cut before installation, so the wires can be easily routed to the holes.

cross-section

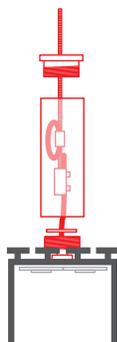


bottom view



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 LIPOD extrusion. The fastener installation manual can be downloaded at www.klusdesign.eu.

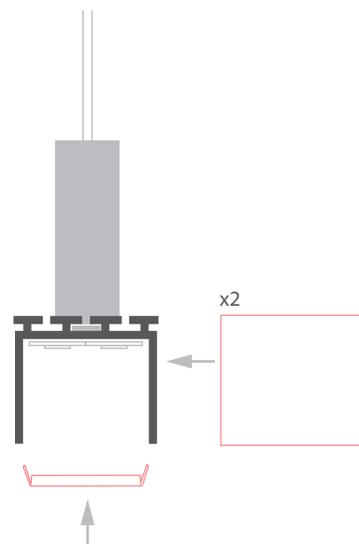
cross-section



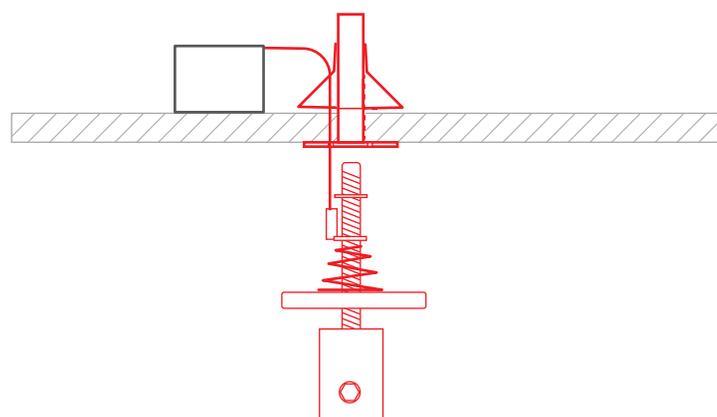
top view



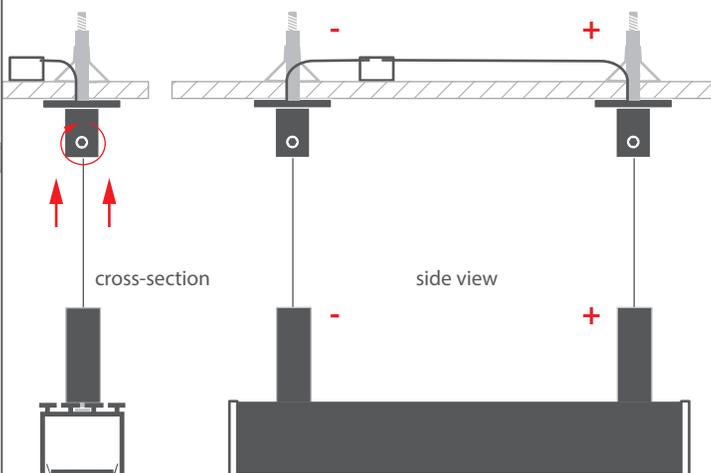
4. Install the cover and both end caps.

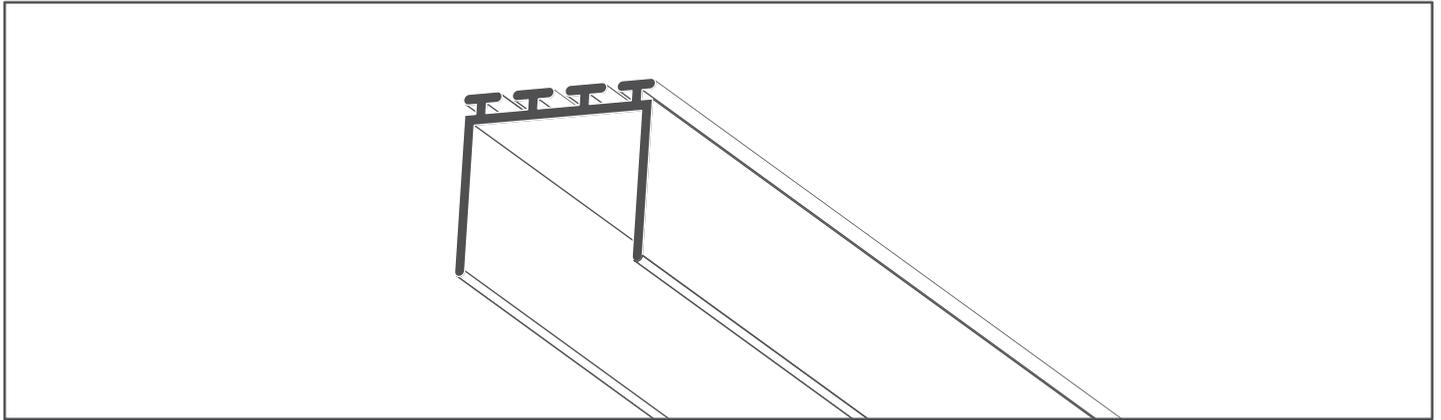


5. Install the W-KG-Z ceiling fasteners. The fastener installation manual can be downloaded at www.klusdesign.eu. Connect the cables, each for the single power pole to the fasteners. The cables should go through a pre-drilled hole just under the masking cover of the fastener.

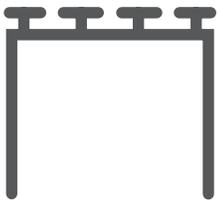


6. Mount the fixture with steel wires into the ceiling fasteners. Mind that the power poles connected to the steel wires should match the ones connected to the fasteners.





Parts needed to mount the LIPOD extrusion



Extrusion (A)



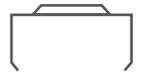
End caps (B)



Cover (C)



LED strip (D)



Mounting bracket (E)

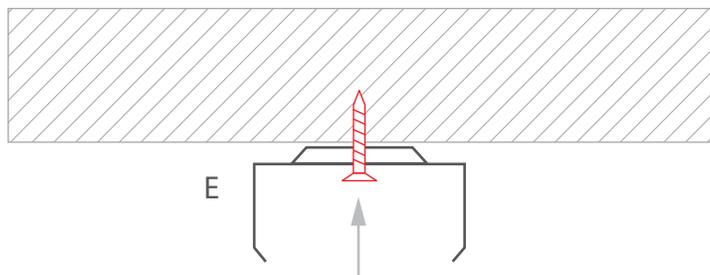
Tools needed for mounting:

- drill
- screwdriver
- screws

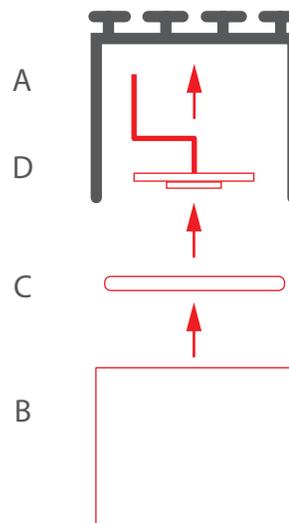
WARNING! All LED strips should be connected to a 12 V or 24 V power supply.

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

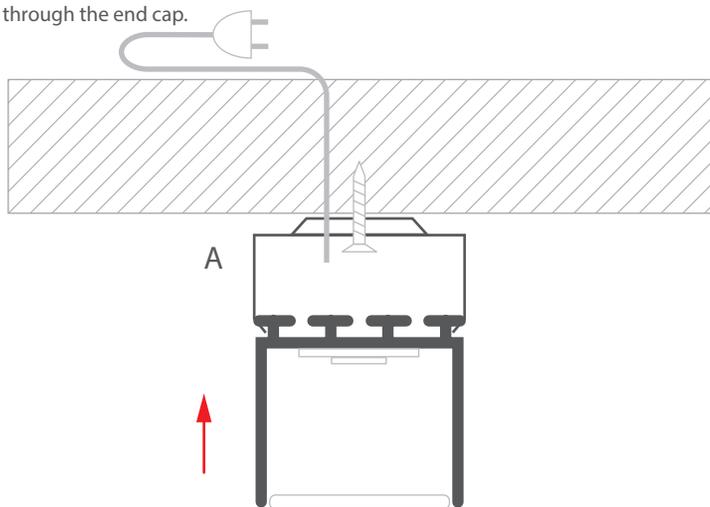
1. Attach the mounting bracket (A) to the mounting surface with screws.



2. Feed the power cable. Mount the LED strip (D), insert the cover (C), insert the end caps (B).



3. Connect power and mount the extrusion (A) in the mounting bracket (E). There are two ways to connect power: through a hole in the extrusion or through the end cap.



PRODUCT DESCRIPTION

- Ability to create a line of light
- Easy mounting using various techniques
- Can be combined in straight and broken linear runs

FINISH :

Silver anodized Black anodized RAL 

Fill empty fields

Product nr.	
Fixture type	
Company	
Job name	
Date	

TECHNICAL SPECIFICATION

Application

- surface mounted or suspended lighting fixtures

Assembly

- using surface springs
- using suspension accessories
- using mounting adhesive

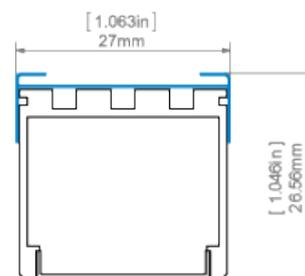
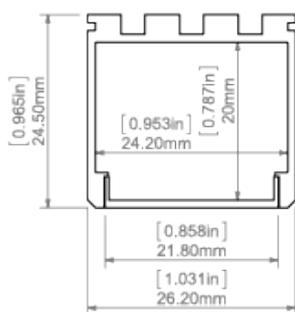
Additional information

- ability to construct polygonal fixtures using ZM connectors

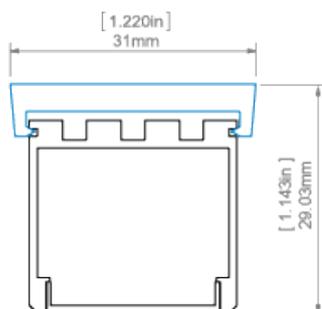
AVAILABLE LENGTHS

Ref. nr.	surface finish	available lengths
B5554ANODA_1	Silver anodized	1000 mm
B5554ANODA_2	Silver anodized	2000 mm
B5554ANODA_3	Silver anodized	3000 mm

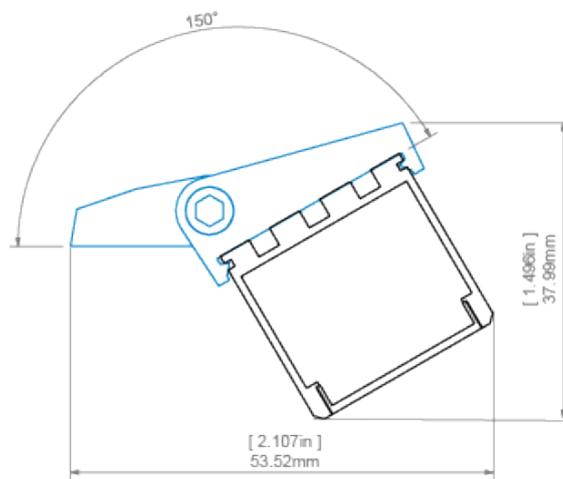
TECHNICAL DRAWING



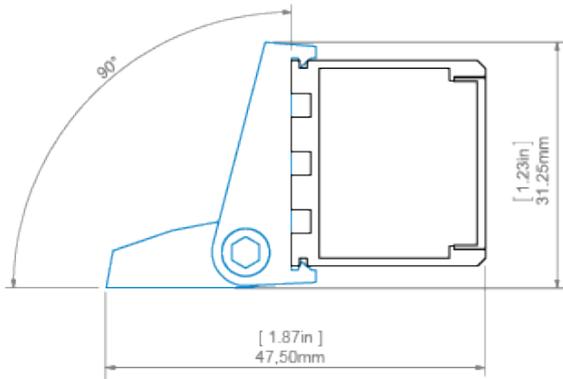
LIPOD profile and AM-24 mounting bracket
profil LIPOD z mocownikiem AM-24



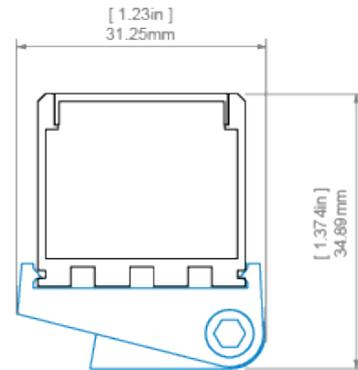
LIPOD profile and GIP mounting bracket
profil LIPOD i mocownikiem GIP



LIPOD profile and REGIP-UV mounting bracket
profil LIPOD z mocownikiem REGIP-UV

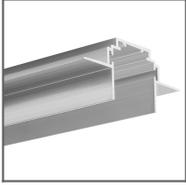


LIPOD profile and REGIP-UV mounting bracket
profil LIPOD z mocownikiem REGIP-UV

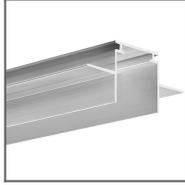


LIPOD profile and REGIP-UV mounting bracket
profil LIPOD z mocownikiem REGIP-UV

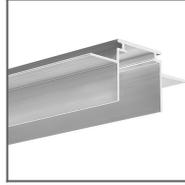
RELATED PROFILES



TEKNIK-ZM Profile
Ref: C0399



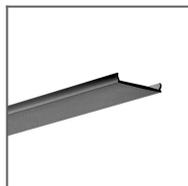
TEKNIK Profile
Ref: B5555V1



TEKUS Profile
Ref: B6638V1

RELATED PRODUCTS

COVERS

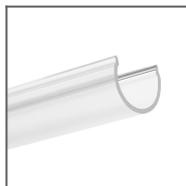


LIGER-22 black Cover
Ref: 17044

80°



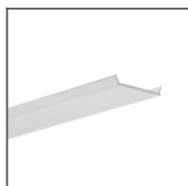
G-K semi-transparent Cover
Ref: 00415



G-L clear Cover
Ref: 17006

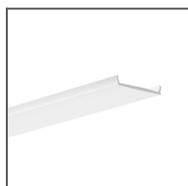


G-L semi-transparent Cover
Ref: 17008



MUN-22 semi-transparent Cover
Ref: 17042

60°



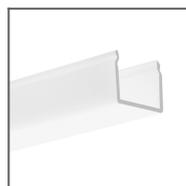
LIGER-22 frosted Cover
Ref: 17032V1

110°

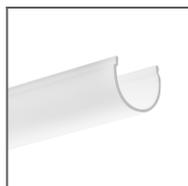


HS-22 clear Cover
Ref: 17022

70°



G-K frosted Cover
Ref: 17007



G-L frosted Cover
Ref: 00413



HS-22 frosted Cover
Ref: 17011

100°



END CAPS



LIPOD metalized End cap
Ref: 24051



LIPOD grey End cap
Ref: 24004

ACCESSORIES



DP Fastener
Ref: 00644



DP-ZO Fastener
Ref: 00649



DP-ZZ Fastener
Ref: 00651



TEKNIK Latch
Ref: 24003



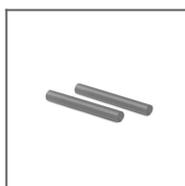
AM-24 Mounting bracket
Ref: 24235



GIP-UV Mounting bracket
Ref: 24310



REGIP-UV Mounting bracket
Ref: 24271



ZM Block
Ref: 42520



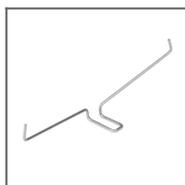
BZP Head
Ref: 42213



BZP-ZO Head
Ref: 42214



BZP-ZZ Head
Ref: 42215



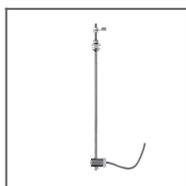
GP Spring
Ref: 00293



M11 Fastener set
Ref: 42609



M12 Fastener set
Ref: 42610



M13 Fastener set
Ref: 42611



W1 Fastener set
Ref: 42602



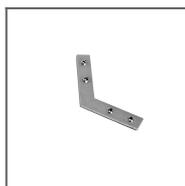
W6 Fastener set
Ref: 42604



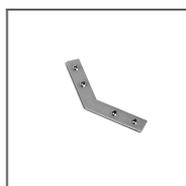
W7 Fastener set
Ref: 42605



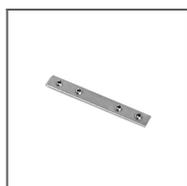
8,8x1,2 Gland
Ref: 00802



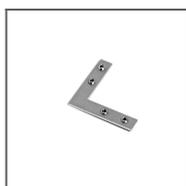
ZM-120 Connector
Ref: 42728



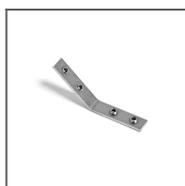
ZM-135 Connector
Ref: 42720



ZM-180 Connector
Ref: 42717



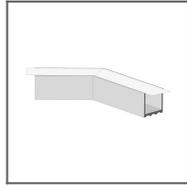
ZM-90 Connector
Ref: 42716



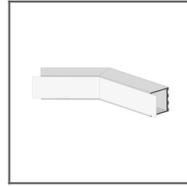
ZM-PION-135 Connector
Ref: 42719



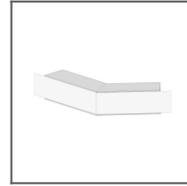
ZM-PION-90
Connector
Ref: 42718



L135 LIPOD
Coupler
Ref: _



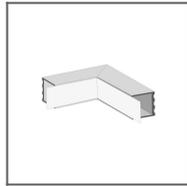
L135PW LIPOD
Coupler
Ref: _



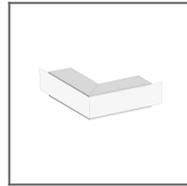
L135PZ LIPOD
Coupler
Ref: _



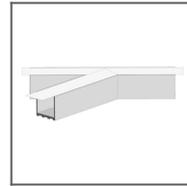
L90 LIPOD
Coupler
Ref: _



L90PW LIPOD
Coupler
Ref: _



L90PZ LIPOD
Coupler
Ref: _



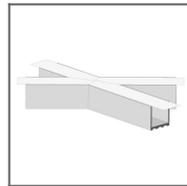
T135L LIPOD
Coupler
Ref: _



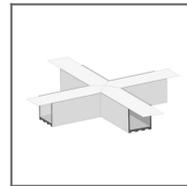
T135R LIPOD
Coupler
Ref: _



T90 LIPOD
Coupler
Ref: _



X135 LIPOD
Coupler
Ref: _



X90 LIPOD
Coupler
Ref: _



Fi-3 Isolating
bases
Ref: 42203



Fi-5 Isolating
bases
Ref: 42204



Fi-6 Isolating
bases
Ref: 42205

MARKETING MATERIALS



Display
P230-90072M
Ref: 90072M



Display
P230-90154M
Ref: 90154M