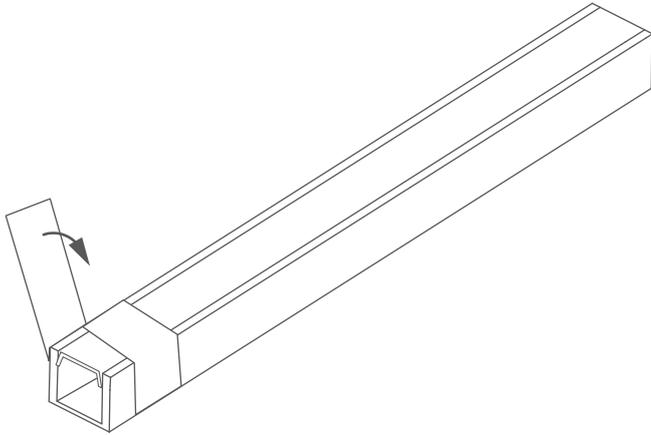


## Spis treści / Table of contents

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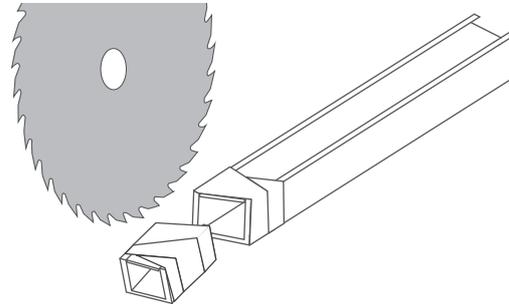
Cutting and drilling.....	p.2
Adhering and connecting LED strips.....	p.3
Attaching covers and end caps.....	p.4
Sealing the extrusion.....	p.5
Connecting extrusions using ZM connectors.....	p.6

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



**2.** Use a mechanical saw to cut.

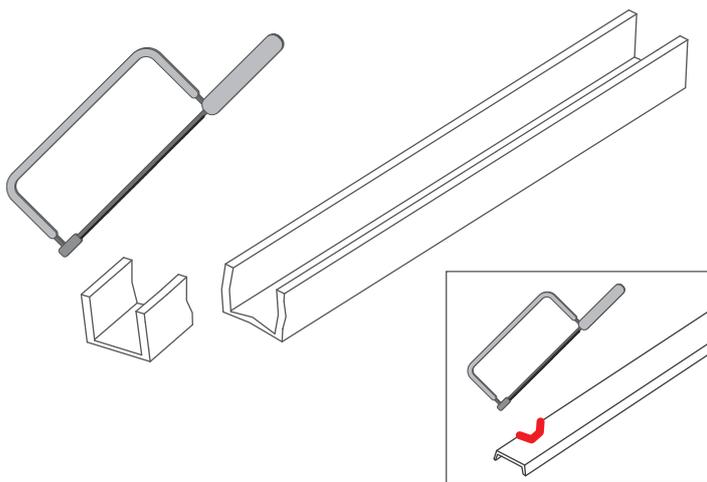
**NOTE!** It is recommended that the cover be cut 2 mm shorter than the extrusion to account for its thermal expansion.



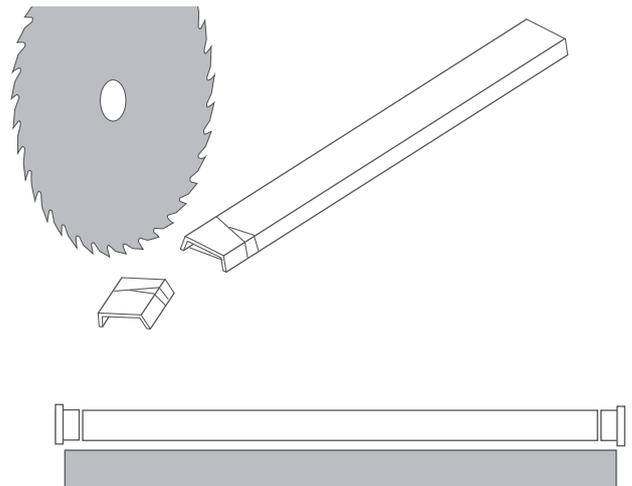
- 2mm



**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.

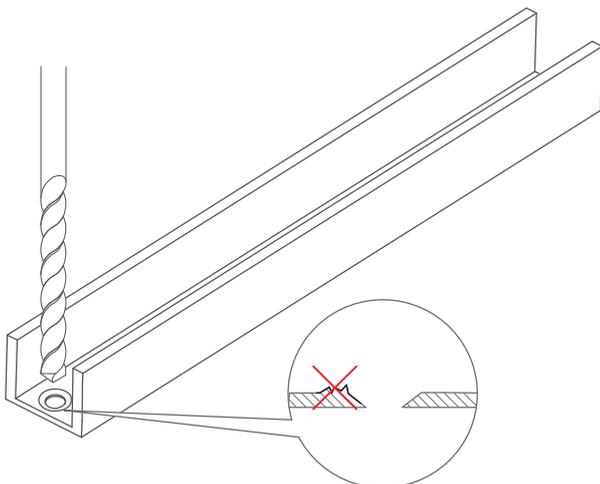


**NOTE!** For some extrusions there are dedicated end caps that require adequate shortening of the cover.

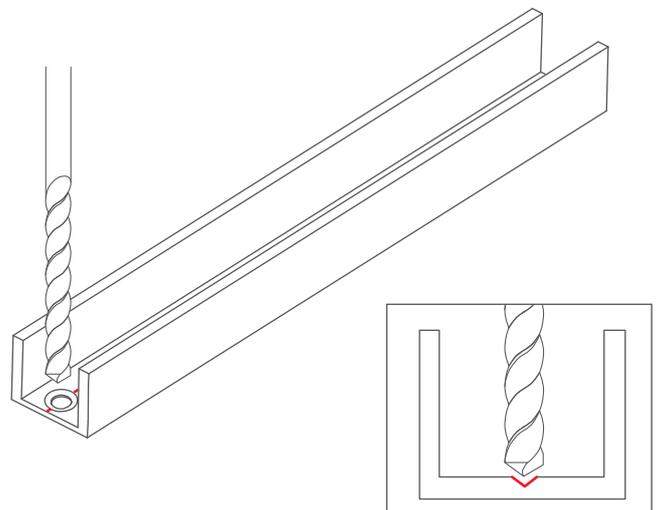


**3.** Drill a hole in the extrusion in the selected place.

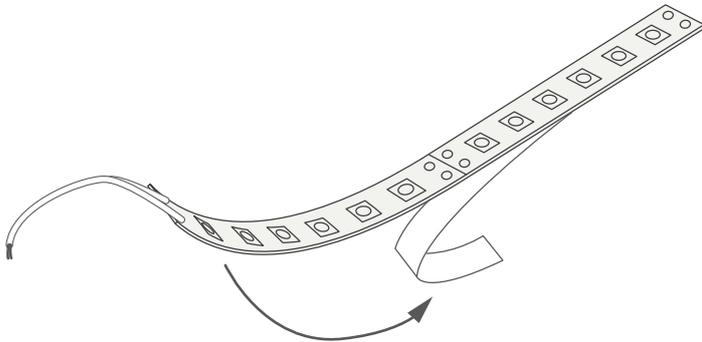
**NOTE!** Make sure that there are no burrs around the hole after drilling as they can damage the LED strip or cable.



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

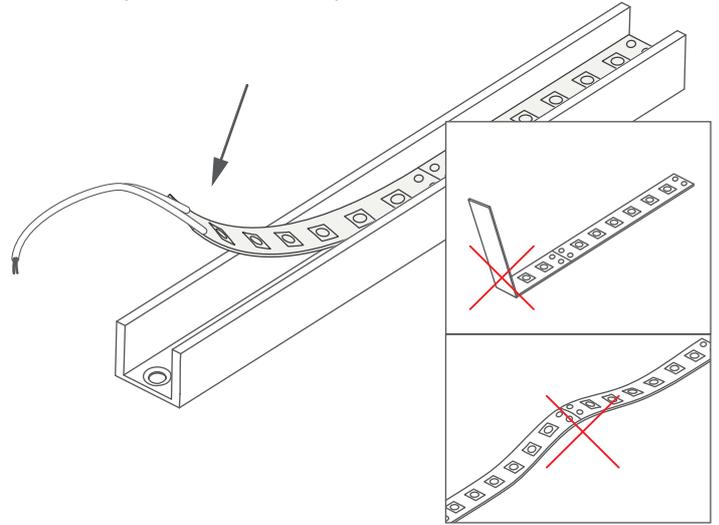


**1.** Remove the protective layer of the LED strip.

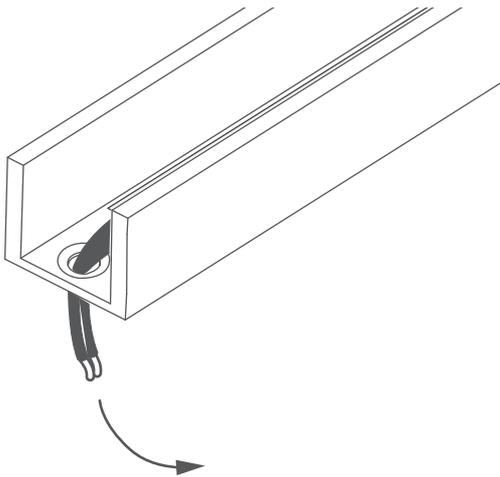


**2.** Attach the tape in the extrusion using the adhesive provided on the LED strip.

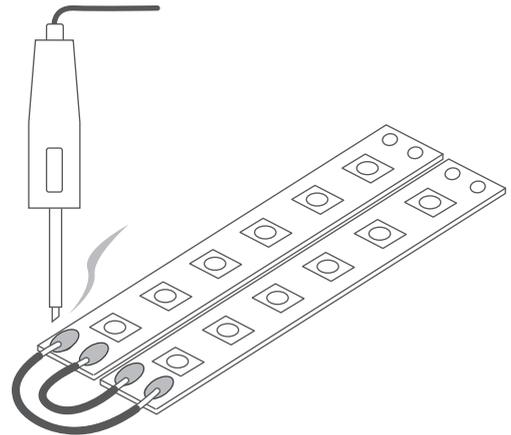
**NOTE!** The tape must not be bent or peel off the surface.



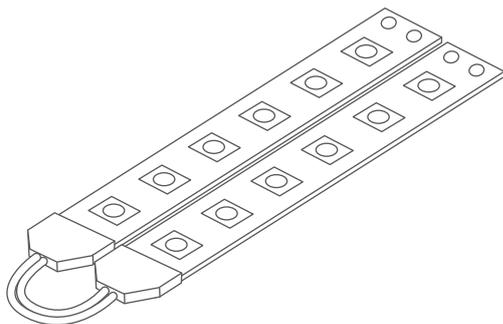
**3.** Lead the power cable through the drilled hole.



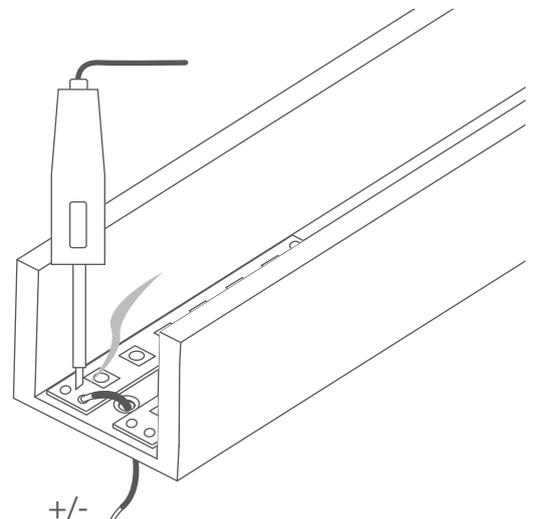
**4.** Connect the LED strips with wires by soldering.



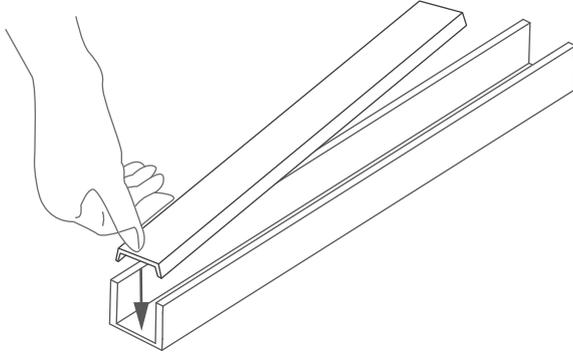
**OPTIONALLY:** The LED strips can also be connected using a system of LED strip connectors. More information at [www.klusdesign.eu](http://www.klusdesign.eu)



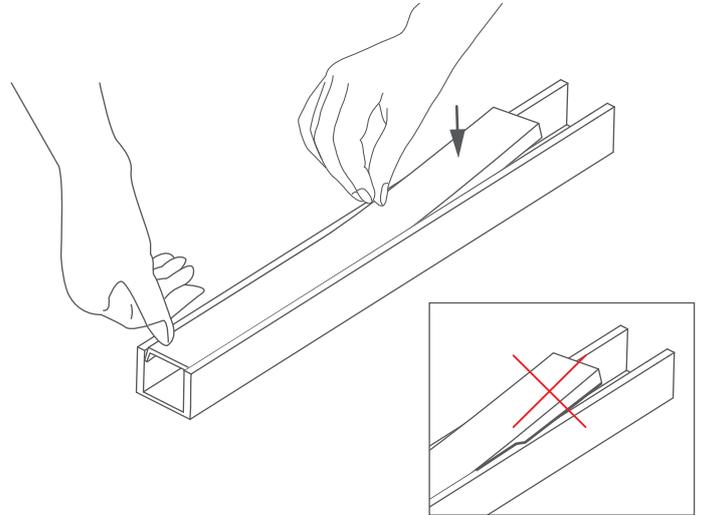
**OPTIONALLY:** The power cords can be led out from one pole of a given strip. This method is used to power suspended lighting fixtures.



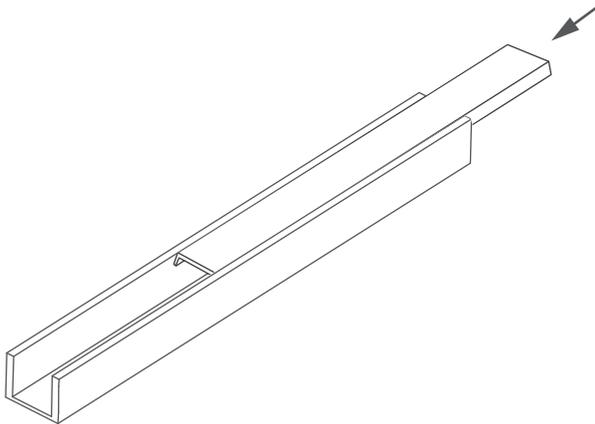
**1.** Insert the tip of the cover into the extrusion.



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

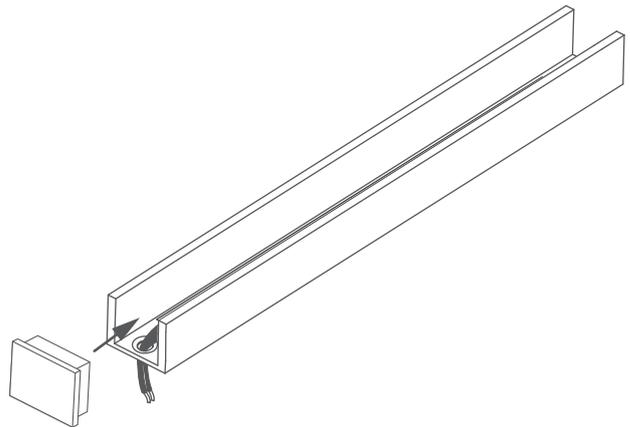


**OPTIONALLY:** Short sections, can also be inserted from the edge of the extrusion.

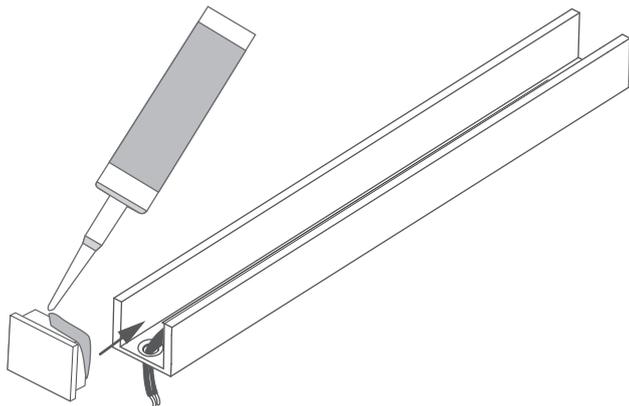


**3.** Insert an end cap into the edge of the extrusion. Individual extrusions have a shape that allows easy installation of dedicated end caps.

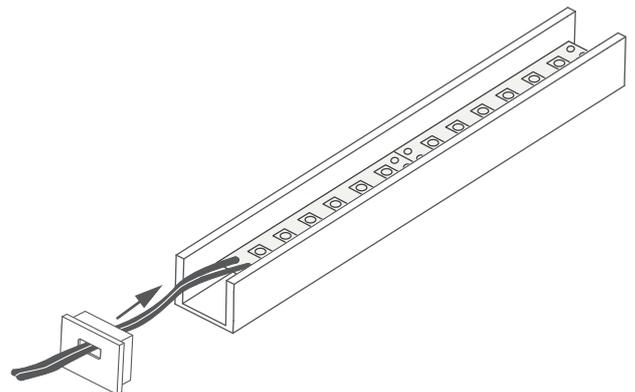
**NOTE!** Some end caps require an adequately shortened cover. This should be taken into account when cutting the extrusion and the cover.



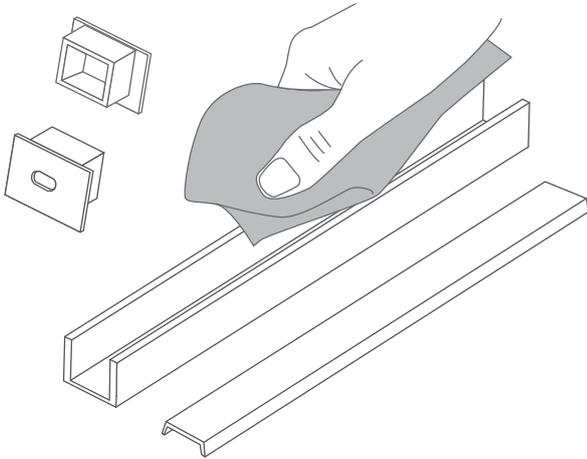
**OPTIONALLY:** The end caps can be attached to the extrusion using glue.



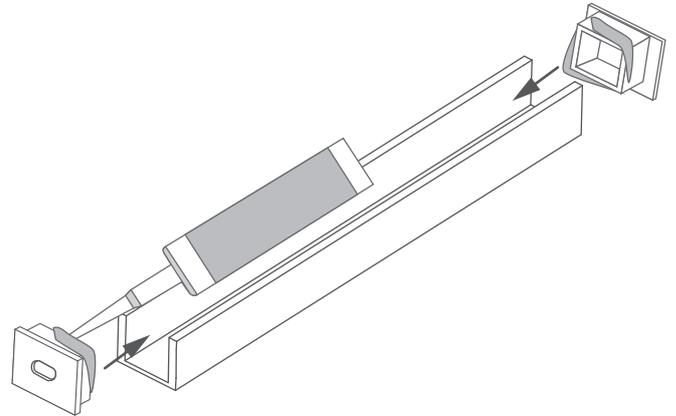
**OPTIONALLY:** Power cables can be run through the end caps in which case the extrusion does not need to be drilled through.



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

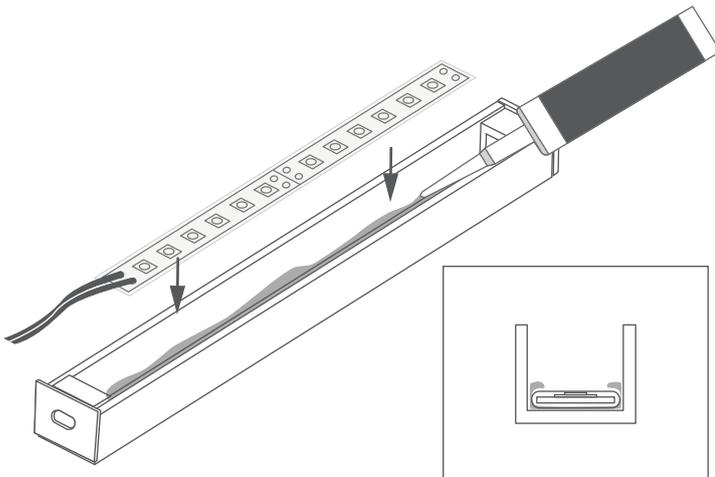


**2.** Attach the end caps with glue.

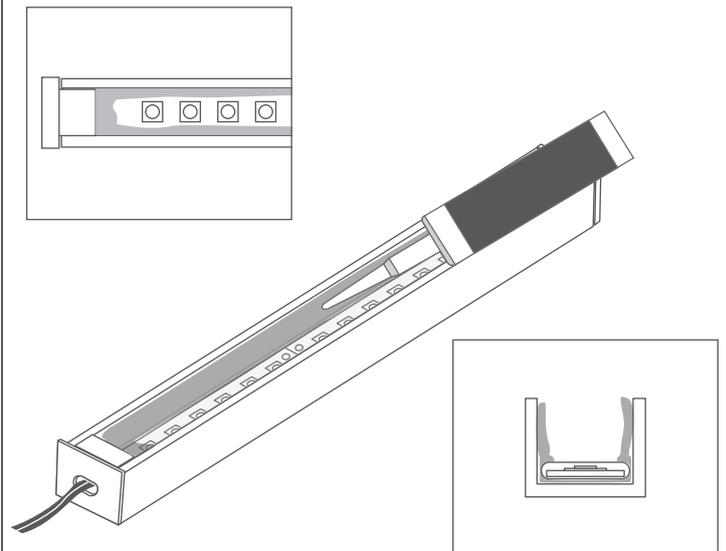


**3.** Apply a silicone layer to the bottom of the profile and embed the LED strip in it.

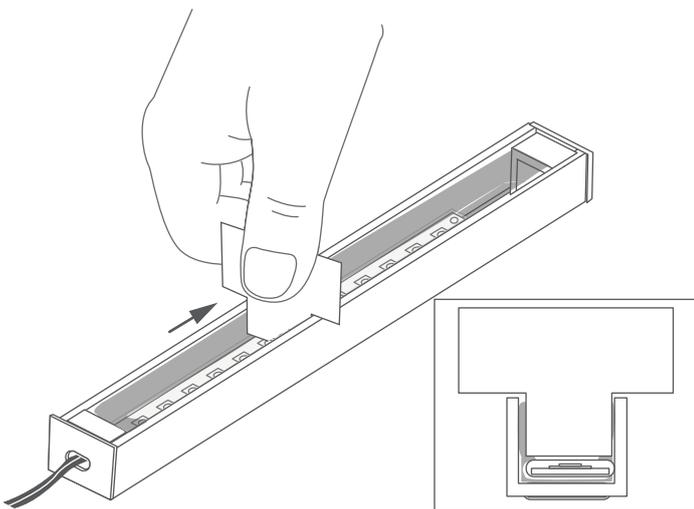
**NOTE:** The LED strip must have separate protection against moisture. We recommend a silicone sleeve or heat shrink tubing if the strip in the sleeve does not fit into the extrusion.



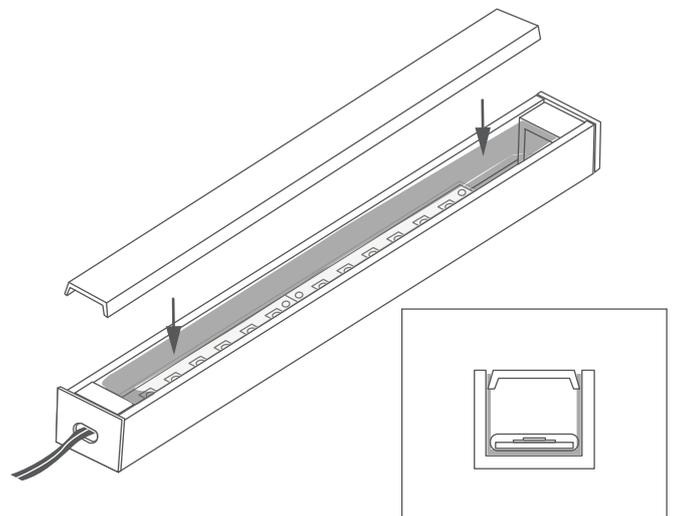
**4.** Apply a second layer of silicone on the extrusion walls and the end caps.



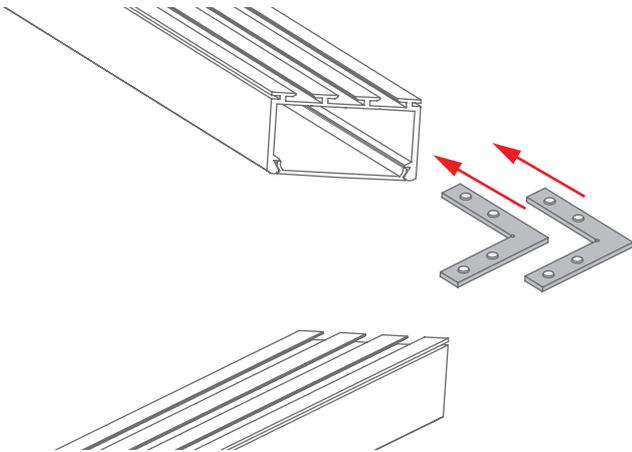
**5.** Remove the excess silicone with a rectangular tool (e.g. a piece of cardboard), taking care not to damage the tape. The silicone layer must be even and must not obscure the LEDs.



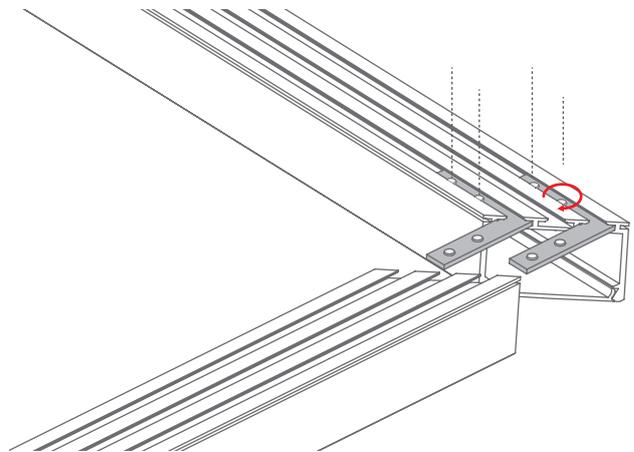
**6.** Insert the cover.



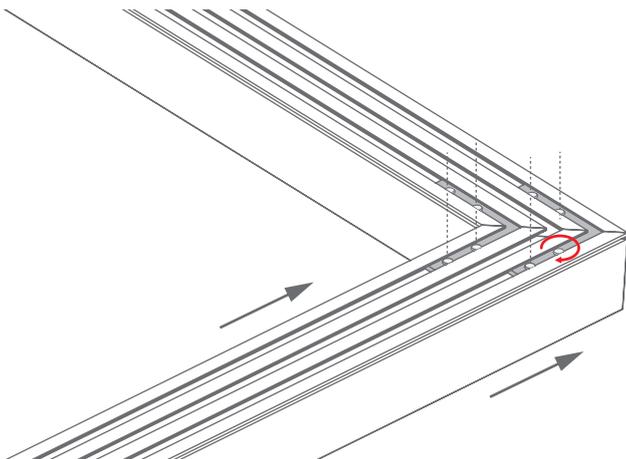
1. Slide the connectors into the small locks of the extrusion.

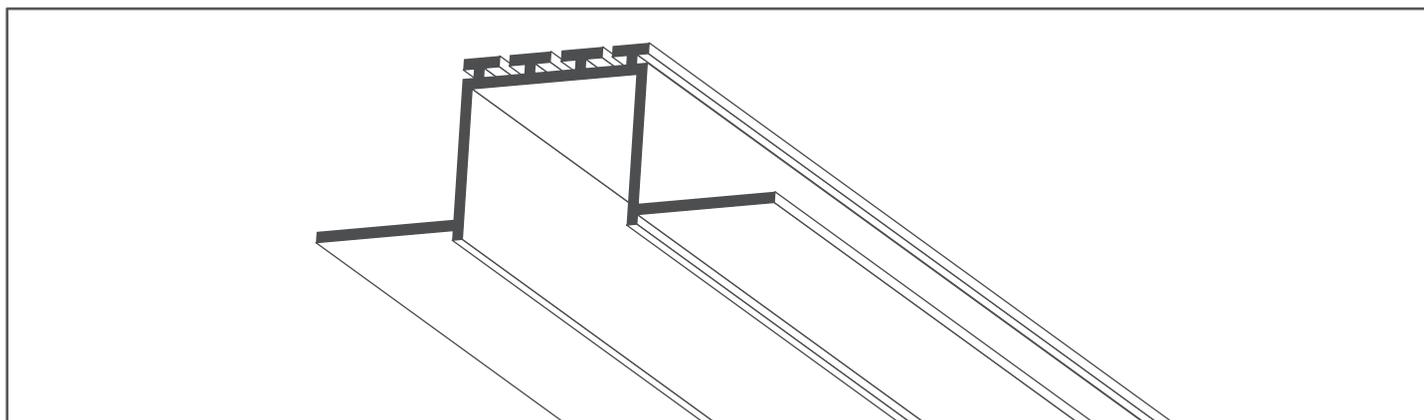


2. Tighten the two pressure screws in each connector with an Allen wrench.

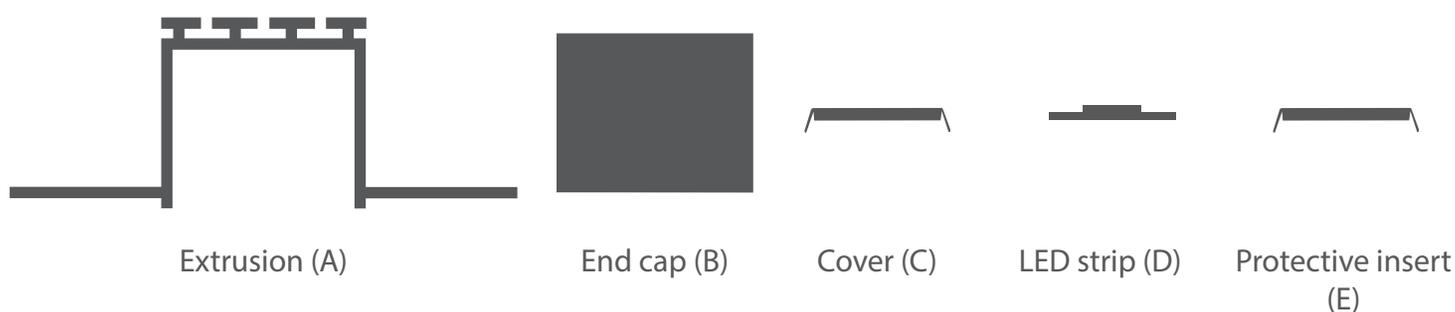


3. Slide the other half of the extrusion onto the connectors and tighten the pressure screws with an Allen wrench.





**Parts needed to mount the KOZEL extrusion**



**Tools needed for mounting:**

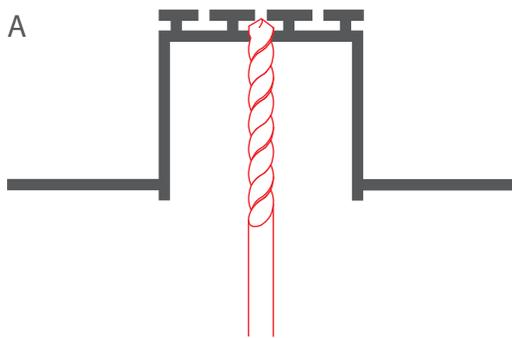
- mounting glue

The **TECH-22 PROTECTIVE INSERT** ensures that the profile slot remains wide enough for the snap-in cover (its use is **NECESSARY** during mounting and finishing works).

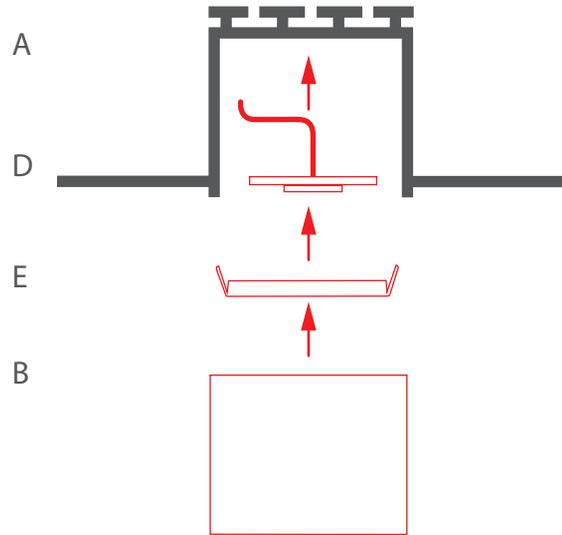
**NOTE!** All LED strips must be connected to a 12 V or 24 V power supply.

**IMPORTANT:** The manual presents the simplest mounting procedure.  
More mounting procedures and related accessories can be found at [klusdesign.eu](http://klusdesign.eu)

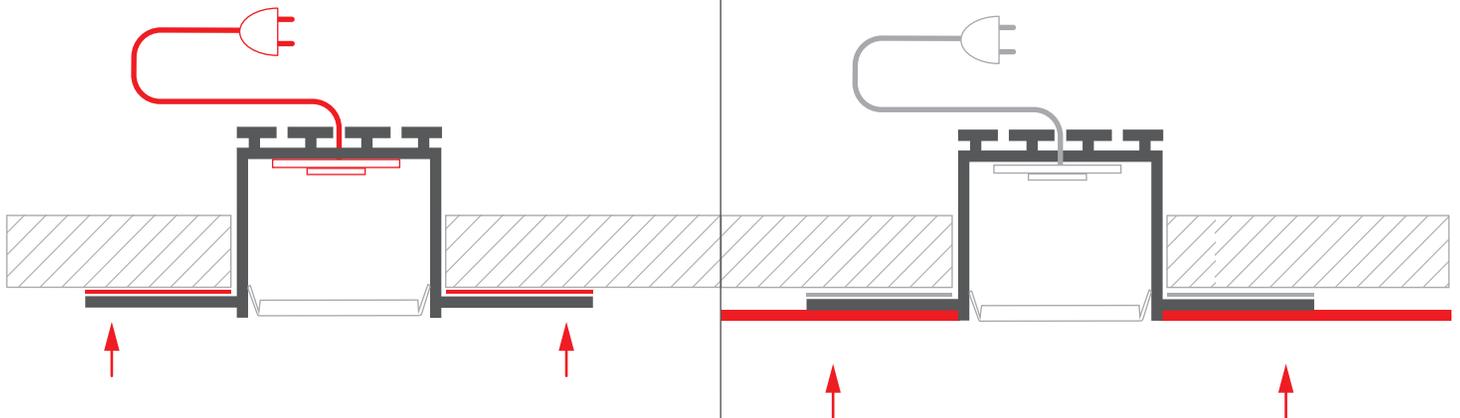
**1.** Drill a hole in the extrusion for the power cable.



**2.** Mount the LED strip (D) in the extrusion, lead out the power cable, insert the protective insert (E) and then insert the end cap (B).

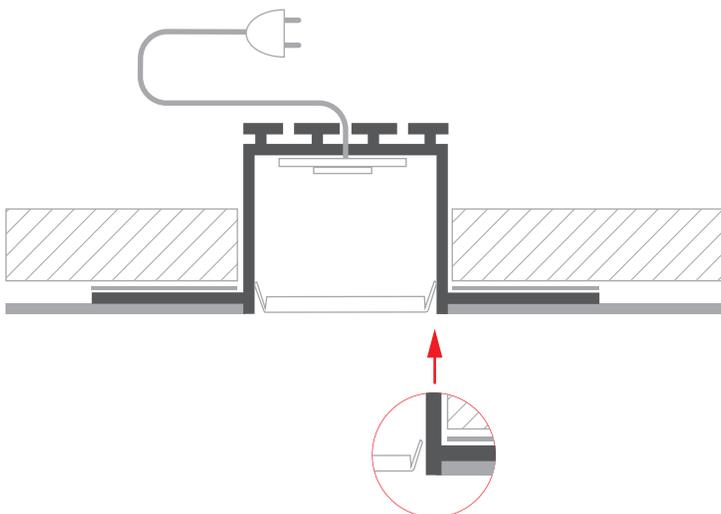


**3.** Attach the extrusion (A) to the ceiling surface with glue and connect the power cable.

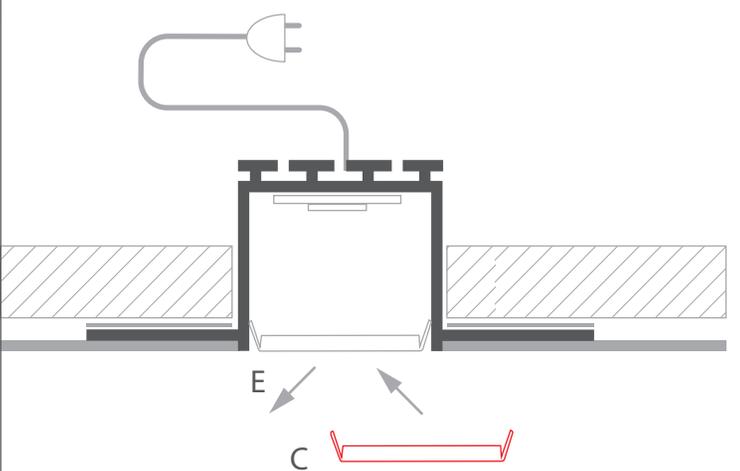


**4.** Apply a layer of plaster to the extrusion and ceiling, and then paint the surface to finish.

**5.** Slide a sharp tool between the extrusion and the cover (on both sides of the cover) to cut off the layer of plaster and paint from the cover. Next remove the protective insert.



**6.** Insert the cover (C) in place of protective insert (E).



## PRODUCT DESCRIPTION

- Can create a line of light
- After mounting aluminum flanges are concealed

### FINISH :

Non anodized (raw) 

\*Custom colors available upon request



Fill empty fields

Product nr.	
Fixture type	
Company	
Job name	
Date	

## TECHNICAL SPECIFICATION

### Application

- for creating lines of light flush with the surface of walls and ceilings

### Assembly

- fixed in the groove with fixing glue
- profile fastening wings covered with gypsum plaster
- The PROTECTIVE INSERT TECH-22 ensures that the profile slot remains wide enough for the snap-in cover (its use is NECESSARY during mounting and finishing works)

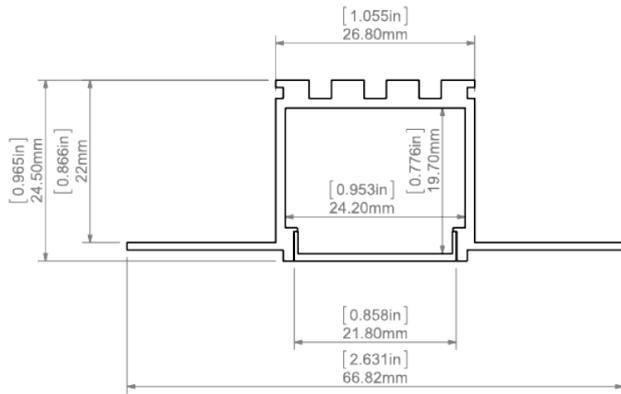
### Additional information

- a TECH-22 protective insert that protects the inside of the profile during mounting is available

## AVAILABLE LENGTHS

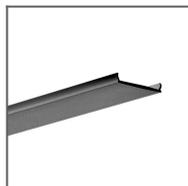
Ref. nr.	surface finish	available lengths
B6454NA_1	Non anodized (raw)	1000 mm
B6454NA_2	Non anodized (raw)	2000 mm
B6454NA_3	Non anodized (raw)	3000 mm

**TECHNICAL DRAWING**



**RELATED PRODUCTS**

**COVERS**



LIGER-22 black Cover  
Ref: 17044

80°



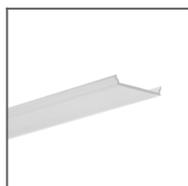
G-K semi-transparent Cover  
Ref: 00415



G-L clear Cover  
Ref: 17006

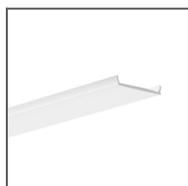


G-L semi-transparent Cover  
Ref: 17008



MUN-22 semi-transparent Cover  
Ref: 17042

60°



LIGER-22 frosted Cover  
Ref: 17032V1

110°

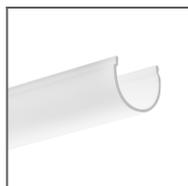


HS-22 clear Cover  
Ref: 17022

70°



G-K frosted Cover  
Ref: 17007



G-L frosted Cover  
Ref: 00413



HS-22 frosted Cover  
Ref: 17011

100°

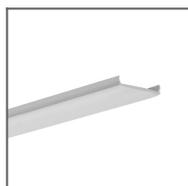


**END CAPS**

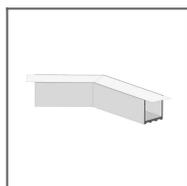


KOZEL grey End cap  
Ref: 24034

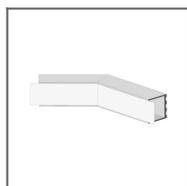
ACCESSORIES



TECH-22  
protective insert  
Ref: 17124



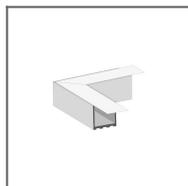
L135 LIPOD  
Coupler  
Ref: \_



L135PW LIPOD  
Coupler  
Ref: \_



L135PZ LIPOD  
Coupler  
Ref: \_



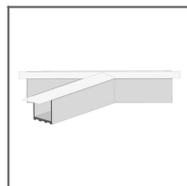
L90 LIPOD  
Coupler  
Ref: \_



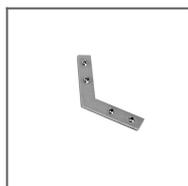
L90PW LIPOD  
Coupler  
Ref: \_



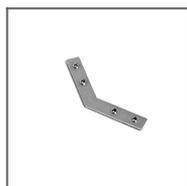
L90PZ LIPOD  
Coupler  
Ref: \_



T135L LIPOD  
Coupler  
Ref: \_



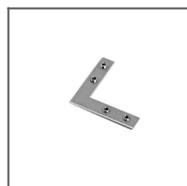
ZM-NA-120  
Connector  
Ref: 42729



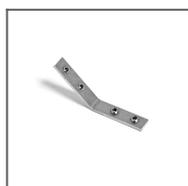
ZM-NA-135  
Connector  
Ref: 42725



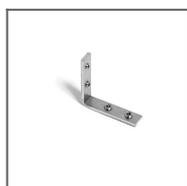
ZM-NA-180  
Connector  
Ref: 42724



ZM-NA-90  
Connector  
Ref: 42723



ZM-NA-PION-135  
Connector  
Ref: 42727



ZM-NA-PION-90  
Connector  
Ref: 42726

MARKETING MATERIALS



Display  
P230-90119M  
Ref: 90119M



Presentation set 2  
Ref: 90052



Display  
P230-90154M  
Ref: 90154M