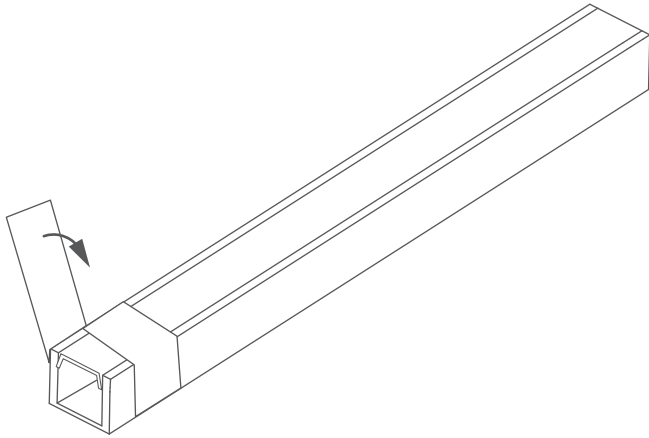


## Spis treści / Table of contents

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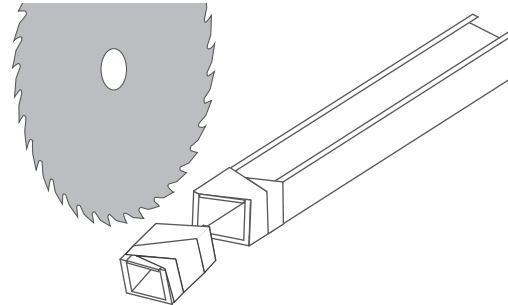
Cutting and drilling.....	p.2
Adhering and connecting LED strips.....	p.3
Attaching covers and end caps.....	p.4
Sealing the extrusion.....	p.5
Connecting extrusions using ZM connectors.....	p.6

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



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

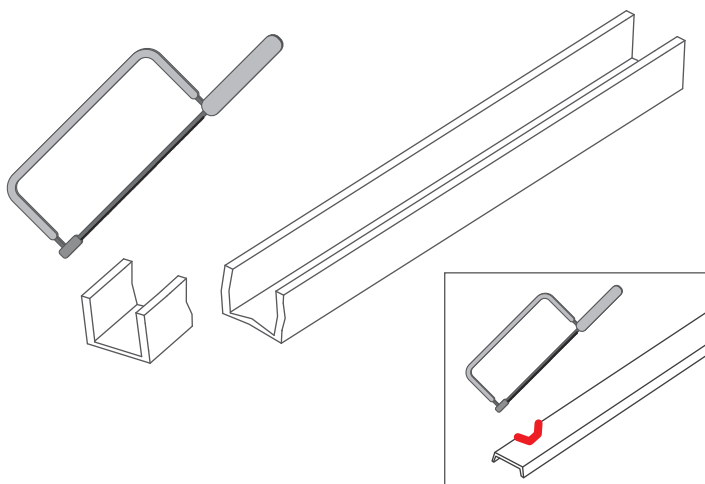
**NOTE!** It is recommended that the cover be cut 2 mm shorter than the extrusion to account for its thermal expansion.



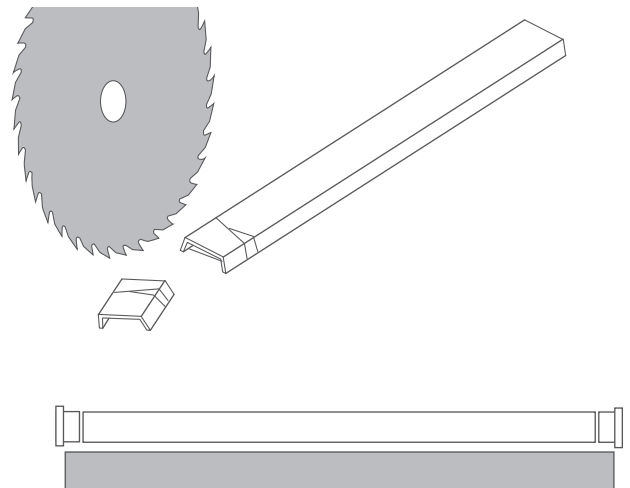
- 2mm



**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.

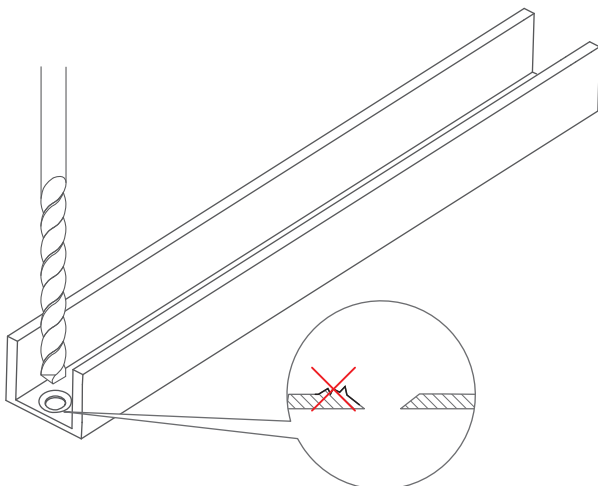


**NOTE!** For some extrusions there are dedicated end caps that require adequate shortening of the cover.

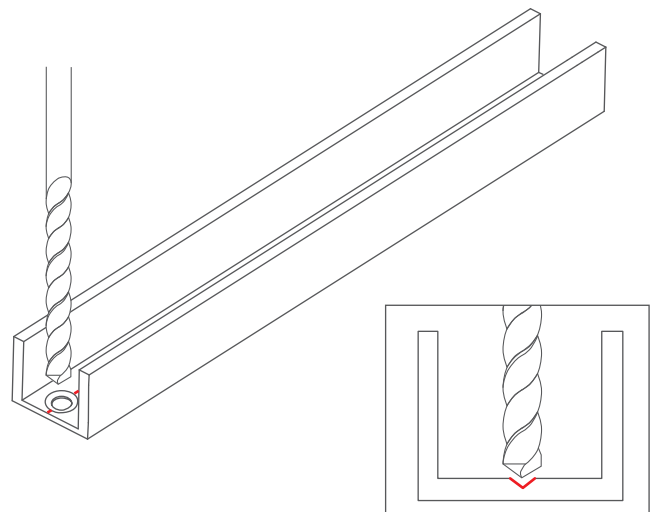


**3.** Drill a hole in the extrusion in the selected place.

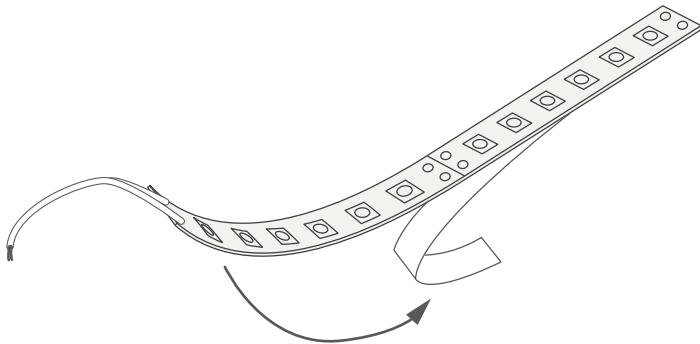
**NOTE!** Make sure that there are no burrs around the hole after drilling as they can damage the LED strip or cable.



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

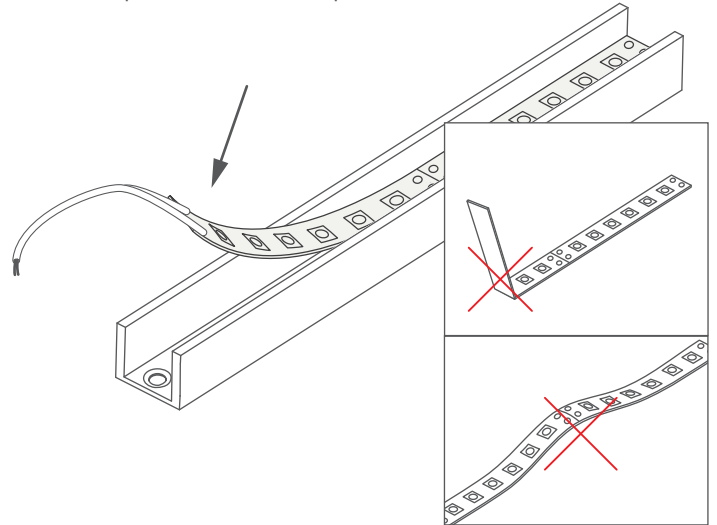


**1.** Remove the protective layer of the LED strip.

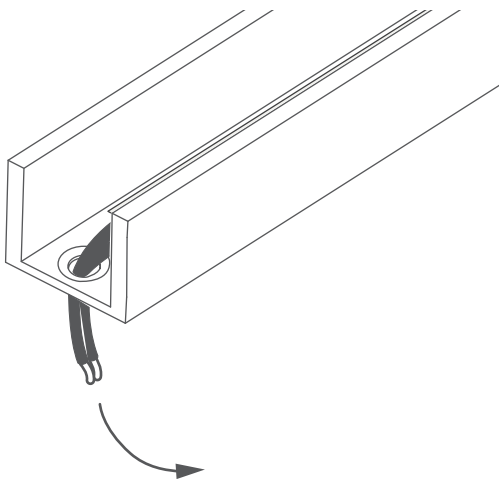


**2.** Attach the tape in the extrusion using the adhesive provided on the LED strip.

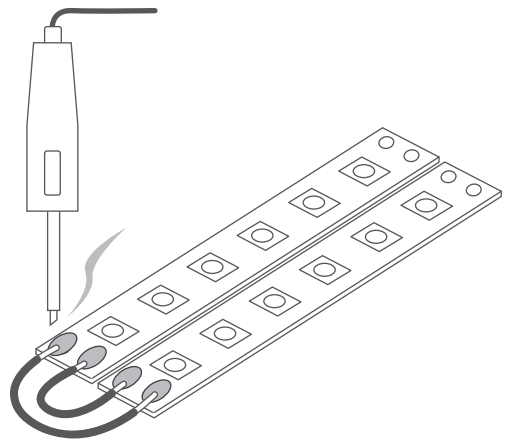
**NOTE!** The tape must not be bent or peel off the surface.



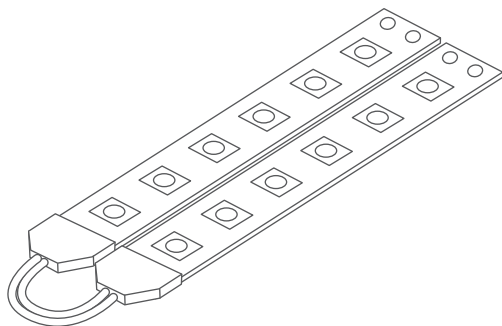
**3.** Lead the power cable through the drilled hole.



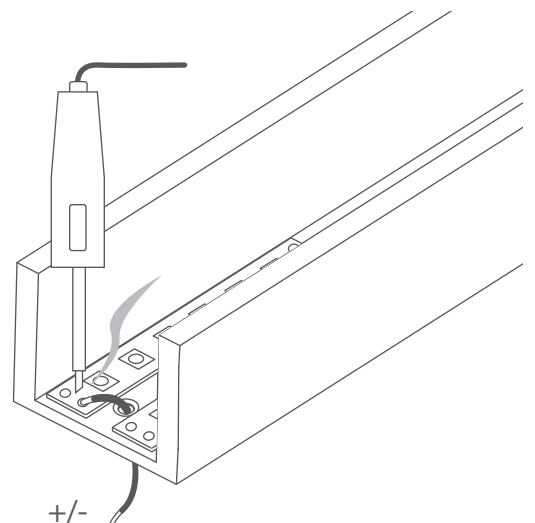
**4.** Connect the LED strips with wires by soldering.



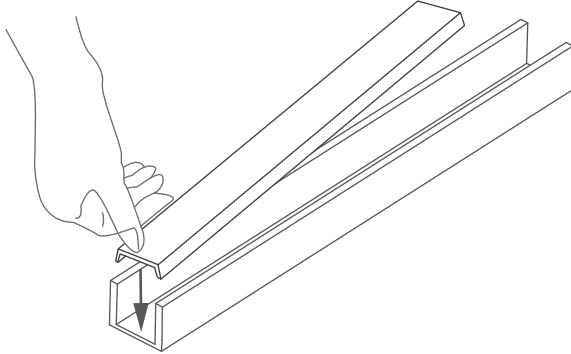
**OPTIONALLY:** The LED strips can also be connected using a system of LED strip connectors. More information at [www.klusdesign.eu](http://www.klusdesign.eu)



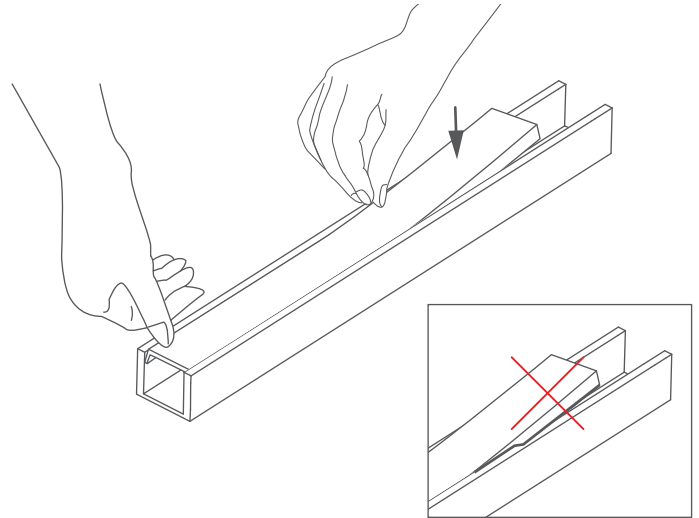
**OPTIONALLY:** The power cords can be led out from one pole of a given strip. This method is used to power suspended lighting fixtures.



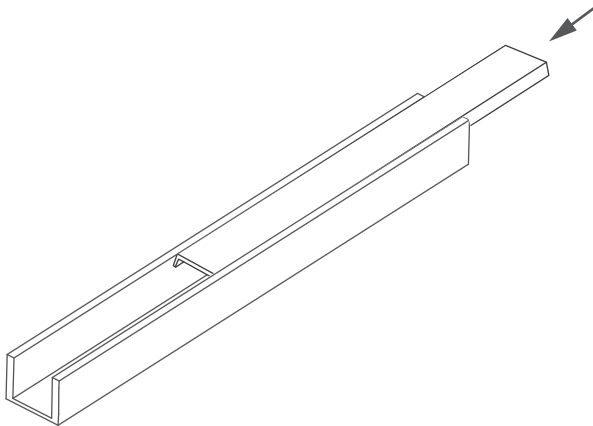
**1.** Insert the tip of the cover into the extrusion.



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

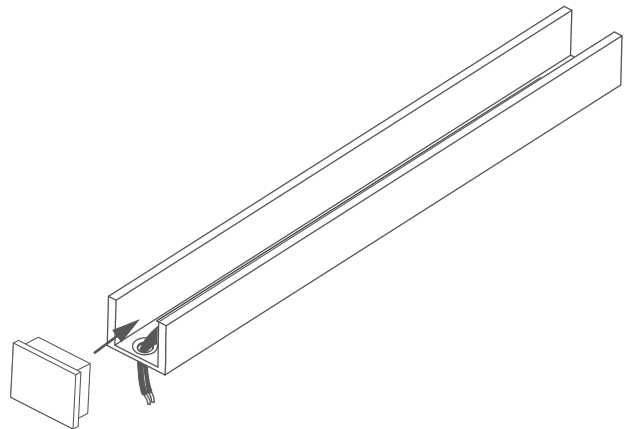


**OPTIONALLY:** Short sections, can also be inserted from the edge of the extrusion.

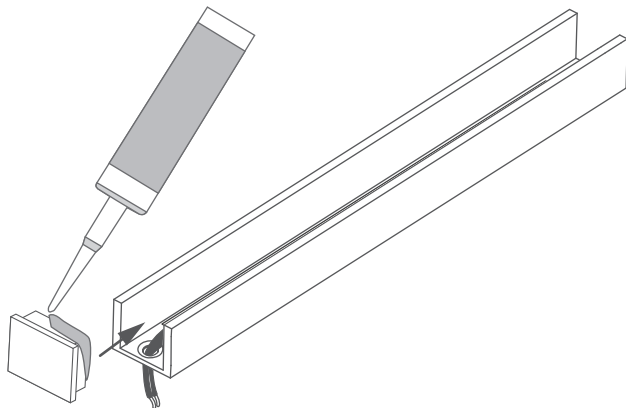


**3.** Insert an end cap into the edge of the extrusion. Individual extrusions have a shape that allows easy installation of dedicated end caps.

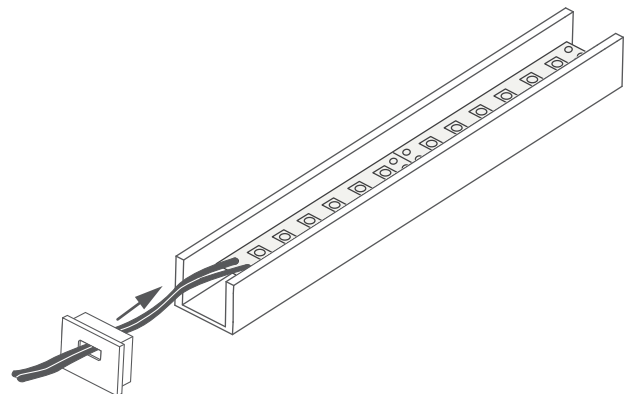
**NOTE!** Some end caps require an adequately shortened cover. This should be taken into account when cutting the extrusion and the cover.



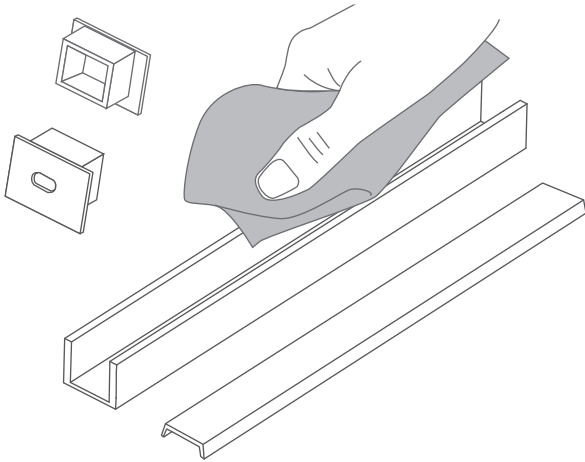
**OPTIONALLY:** The end caps can be attached to the extrusion using glue.



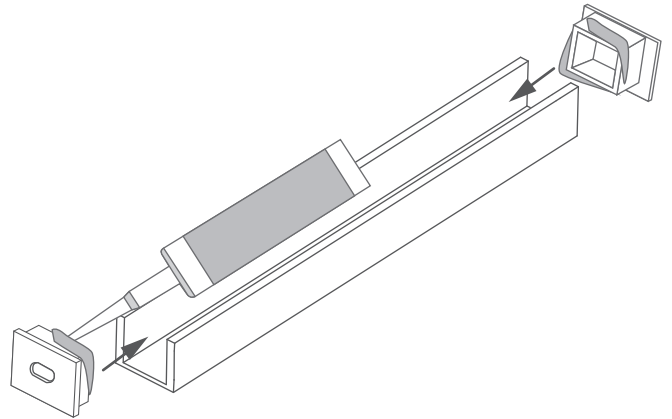
**OPTIONALLY:** Power cables can be run through the end caps in which case the extrusion does not need to be drilled through.



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

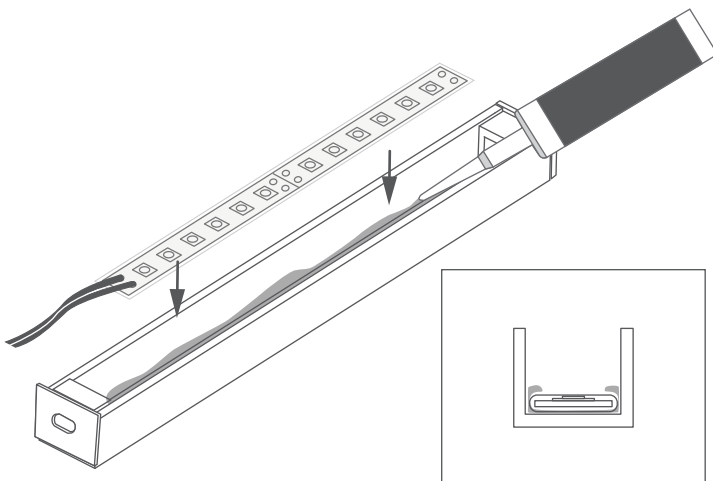


2. Attach the end caps with glue.

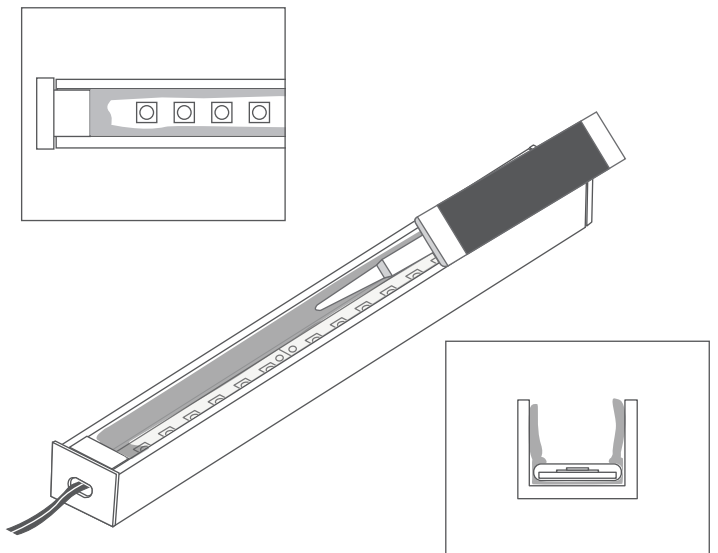


3. Apply a silicone layer to the bottom of the profile and embed the LED strip in it.

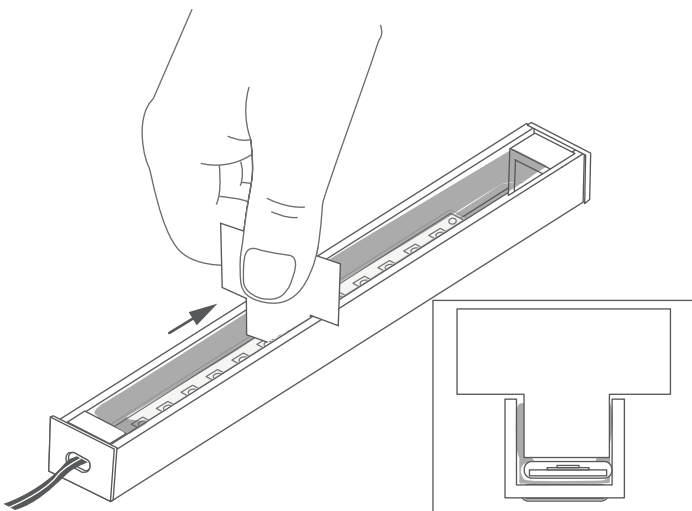
**NOTE:** The LED strip must have separate protection against moisture. We recommend a silicone sleeve or heat shrink tubing if the strip in the sleeve does not fit into the extrusion.



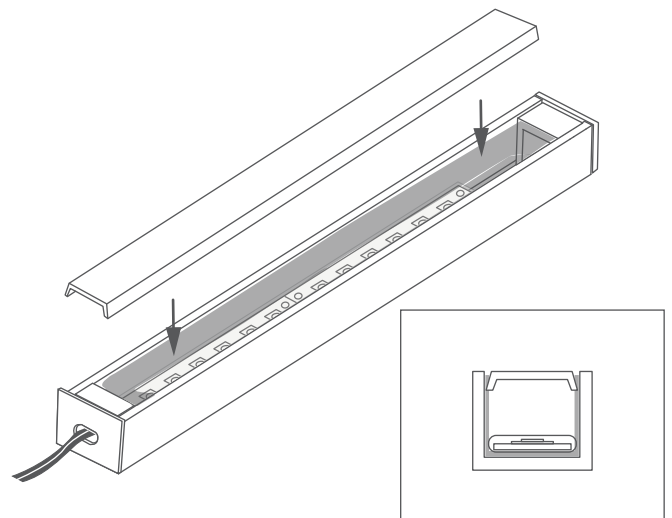
4. Apply a second layer of silicone on the extrusion walls and the end caps.



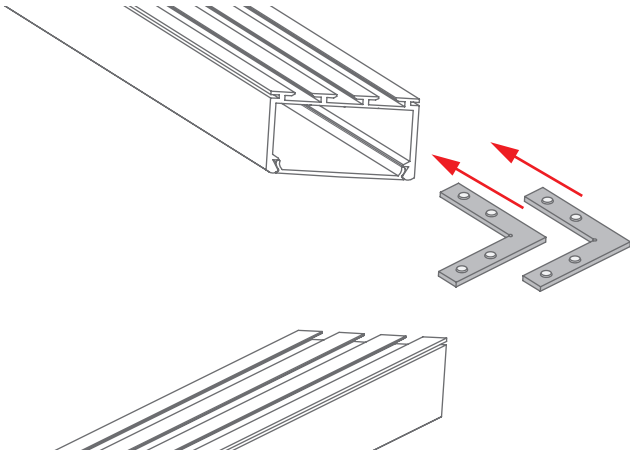
5. Remove the excess silicone with a rectangular tool (e.g. a piece of cardboard), taking care not to damage the tape. The silicone layer must be even and must not obscure the LEDs.



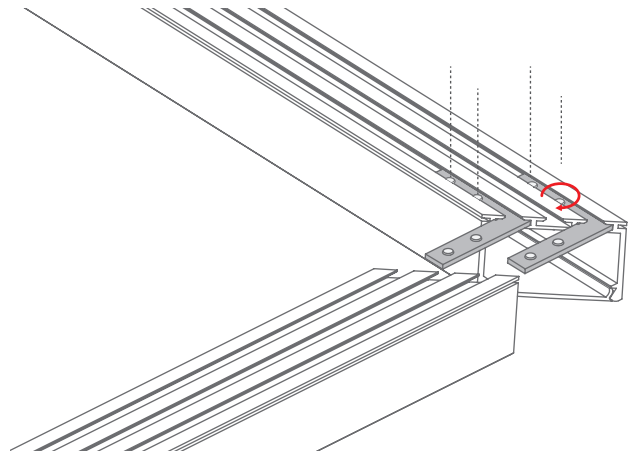
6. Insert the cover.



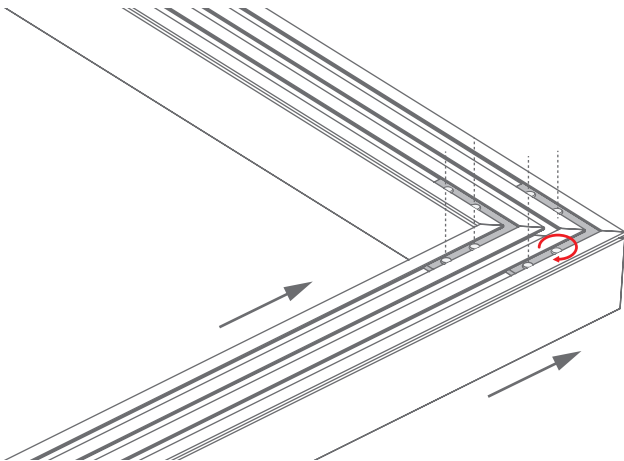
1. Slide the connectors into the small locks of the extrusion.

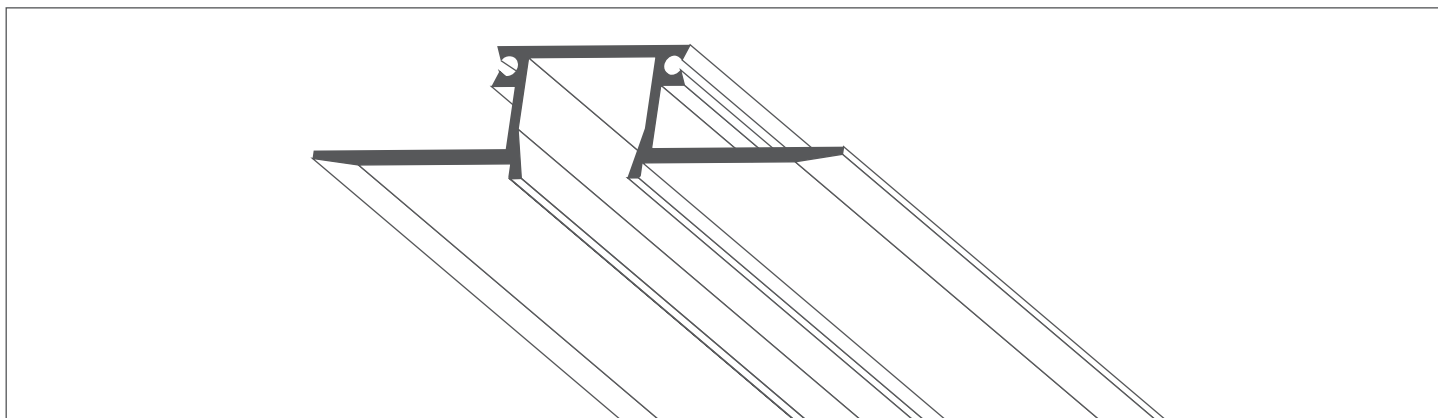


2. Tighten the two pressure screws in each connector with an Allen wrench.



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 KOZMA extrusion**



Extrusion (A)



LED strip (B)



Protective insert (C)



Cover (D)



End cap (E)

**Tools needed for mounting:**

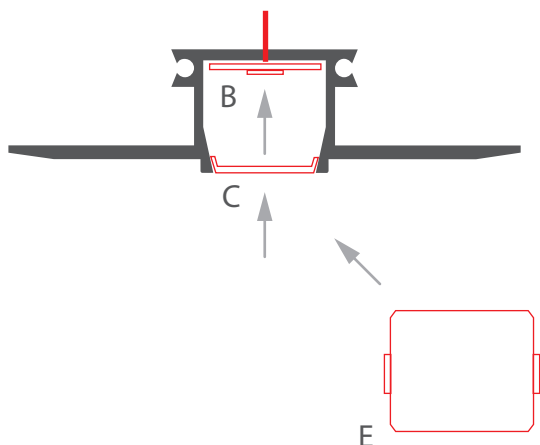
- mounting glue

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

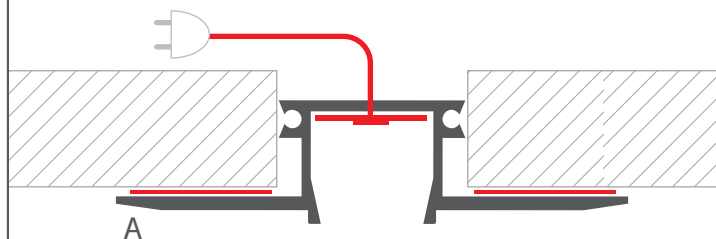
**NOTE!** All LED strips must be connected to a 12 V or 24 V power supply.

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

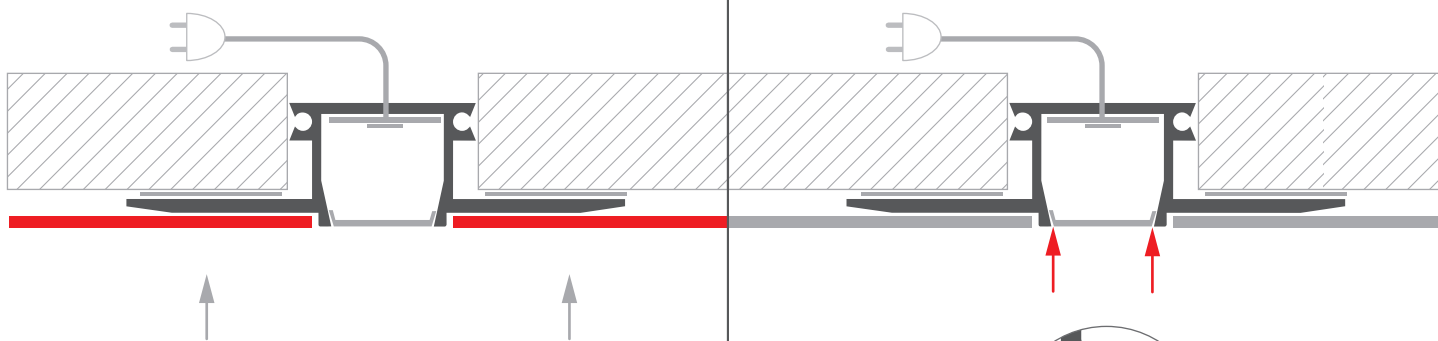
**1.** Mount the LED strip (B) in the extrusion, lead out the power cable, insert the protective insert (C) and then insert the end caps (E).



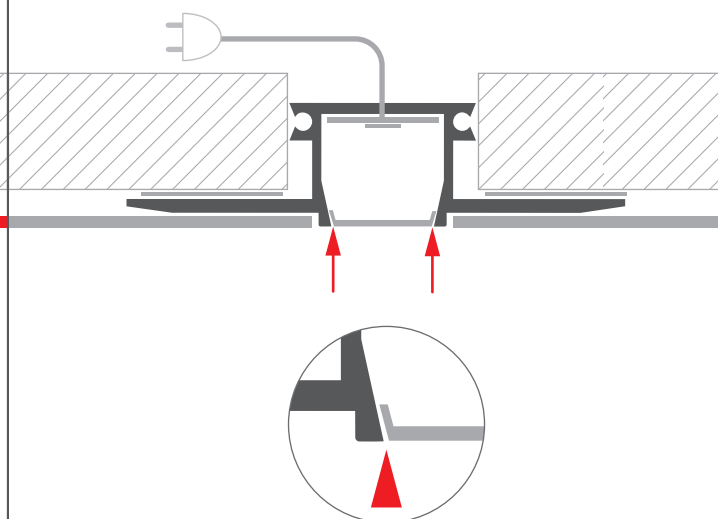
**2.** Attach the fixture (A) to the ceiling surface and connect the power cable.



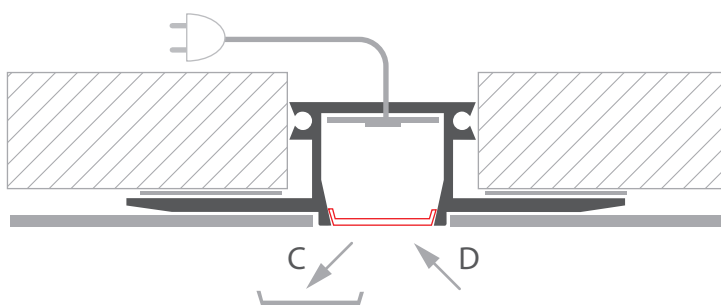
**3.** Apply a layer of plaster to the extrusion and the ceiling and then paint the surface.



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



**5.** Remove the protective insert (C) and then insert the proper cover (D).



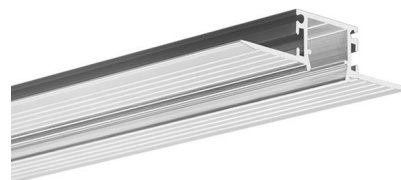


## PRODUCT DESCRIPTION

- Narrow line of light
- Profile flush with the ceiling or wall surface
- Invisible aluminum components

### FINISH :

Non anodized (raw) 



Fill empty fields

Product nr.	
Fixture type	
Company	
Job name	
Date	

## TECHNICAL SPECIFICATION

### Application

- for a fixture with the line-of-light effect, flush with the ceiling surface, without visible aluminum elements

### Assembly

- for mounting in a cardboard-gypsum board using fixing glues, then meshed and finished with plaster
- The PROTECTIVE INSERT TECH-KA ensures that the profile slot remains wide enough for the snap-in cover. Its use is NECESSARY during mounting and finishing works.

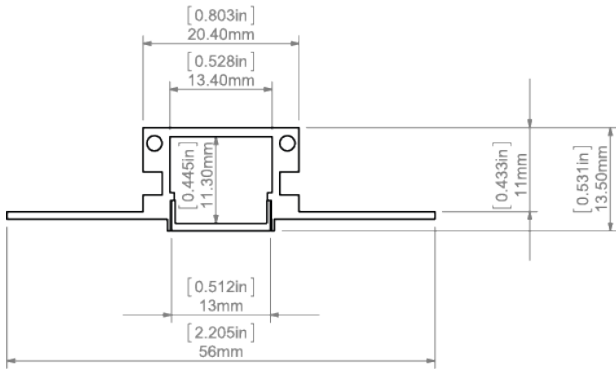
### Additional information

- equipped with an additional TECH-KA protective insert, which protects essential elements against soiling during mounting

## AVAILABLE LENGTHS

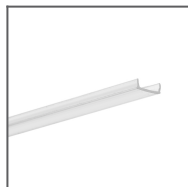
Ref. nr.	surface finish	available lengths
18040NA_1	Non anodized (raw)	1000 mm
18040NA_2	Non anodized (raw)	2000 mm
18040NA_3	Non anodized (raw)	3000 mm

TECHNICAL DRAWING



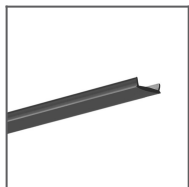
**RELATED PRODUCTS**

**COVERS**



KA clear Cover  
Ref: 17036

60°



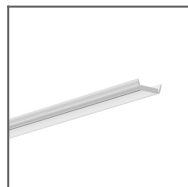
LIGER black Cover  
Ref: 17040

90°



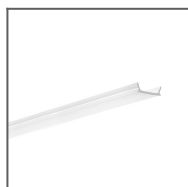
KA frosted Cover  
Ref: 17035

90°



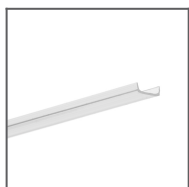
HS clear Cover  
Ref: 1370

50°



KA-PRO frosted Cover  
Ref: 17064

100°



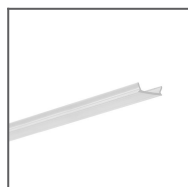
KA-COM clear Cover  
Ref: 17122

70°



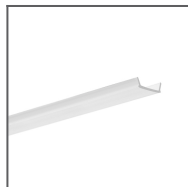
HS frosted Cover  
Ref: 1369

100°



KA-PRO clear Cover  
Ref: 17065

50°



KA-COM frosted Cover  
Ref: 17121

100°

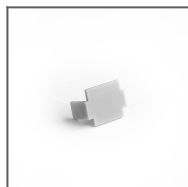


LIGER frosted Cover  
Ref: 17037

120°



**END CAPS**

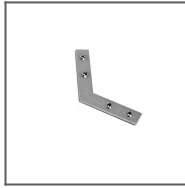


KOZMA grey End cap  
Ref: 24217

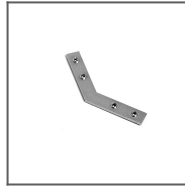
## ACCESSORIES



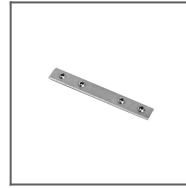
8,8x1,2 Gland  
Ref: 00802



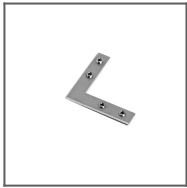
ZM-NA-120  
Connector  
Ref: 42729



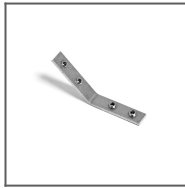
ZM-NA-135  
Connector  
Ref: 42725



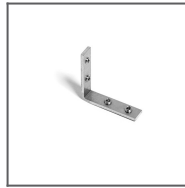
ZM-NA-180  
Connector  
Ref: 42724



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 6  
Ref: 90125



Display  
P230-90154M  
Ref: 90154M