



**INSTRUCTIONS PERTAINING TO RISK OF FIRE OR INJURY TO PERSONS. READ ALL INSTRUCTIONS. IMPORTANT SAFETY INSTRUCTIONS. SAVE THESE INSTRUCTIONS.**

**DANGER - RISK OF SHOCK - DISCONNECT POWER BEFORE INSTALLATION! Please read all instructions before installation.**

- Keep these instructions for future reference.
- Must be installed by a qualified electrician in accordance with national and local standards. Designplan is not responsible for fixtures installed without regard to these standards.
- Unauthorized alterations or tampering of product voids warranty.
- The main power connection must be in accordance with local electrical codes.
- Suitable for OUTDOOR or FOUNTAIN applications.



**IP65/IP68**

## Electrical Connections:

- LED lights must be **connected in parallel** respecting polarities.
- **CHOOSE POWER SUPPLY ACCORDINGLY.** Please consider the voltage through which fixtures are fed as well as the max power consumption.
- **Connect power only if all the fixtures are connected.**
- This unit must be used in conjunction with a suitable fountain rated power supply.
- Use only Class 2 type electronic power supply.
- Never use switches on secondary circuit.

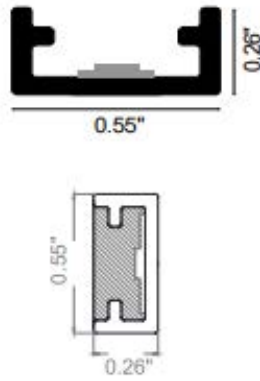
**ATTENTION:** For In-Grade - It is the contractor's responsibility to seal the conduit with "Great Stuff" aerosol seal that prevents water and moisture penetration for ultimate protection. Contractor **MUST** use gel-filled wire nuts.

## Maintenance

Scheduled maintenance must be carried out once a year on all lighting devices, regardless of appliance class and type of use. It must include the following operations:

- Periodically clean fixtures to remove dirt from gratings and screw heads.
- Check tightness of screws on various parts of the device.
- Check that all cable glands and cables are intact and tight. Check that the glass or plastic lens is intact, and replace it if broken or damaged.
- The internal components such as the ballast, driver, washers and screws must not show clear signs of oxidation or rust. Clear traces of rust and oxidation will indicate the presence of water inside the device.
- In the case of damage, the components must be replaced by original components or spare parts.

## FIXTURE DIMENSION



**NOT CUTTABLE IN THE FIELD**

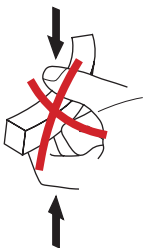
## MOUNTING INSTRUCTION

- Best temperature for assembly is between +18 °C and +45 °C (+64.4 °F and +113 °F);
- Best temperature for storage is between -30° C and +85 ° C (-22 °F and +185 °F);
- The installation surface must be dry and clean;
- Surface must be free of dust, grease, oil or separating agents;
- For cleaning use clean cloth and material-compliant detergents like Isopropanol.

**Attention: THE PRODUCT'S WARRANTY IS VALID ONLY IF THE INSTRUCTIONS HAVE BEEN OBSERVED.**

### To avoid

**NO DON'T PRESS**



**NO DON'T TWIST**



**NO DON'T STEP ON**



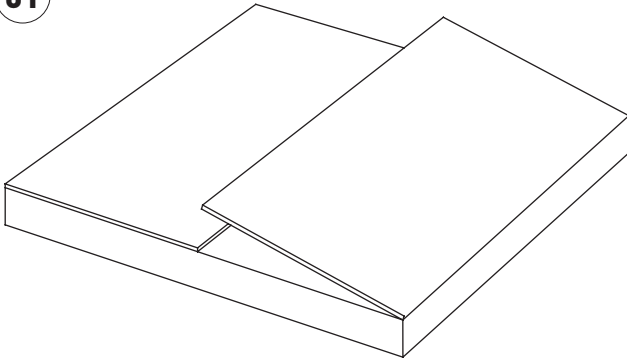
**NO DON'T PULL**



**NO DON'T CUT**



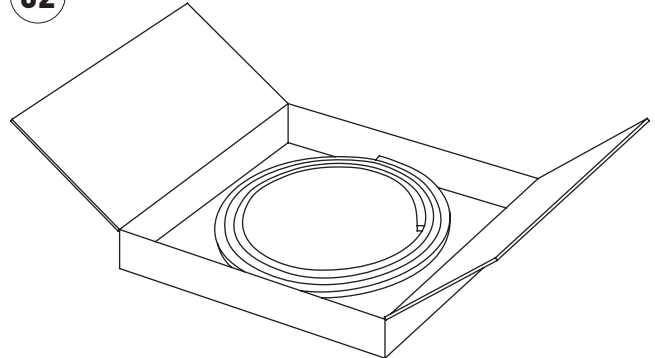
01



### OPEN THE PACKAGE CAREFULLY

Make sure not to damage the encapsulation of the product when opening the package with a sharp object (Cutter knife / Scissors), otherwise, no adequate protection of the LED strip is guaranteed. After receiving the package, please check the integrity and completeness of product.

02

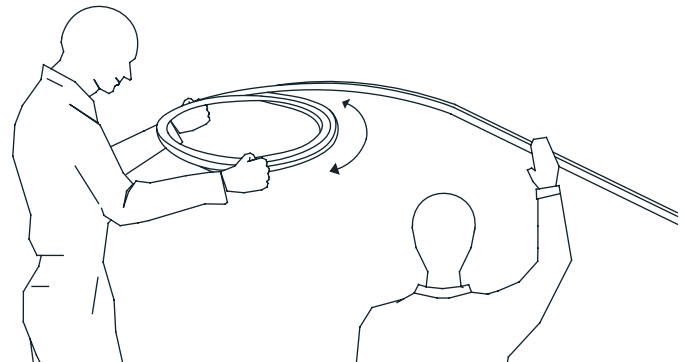
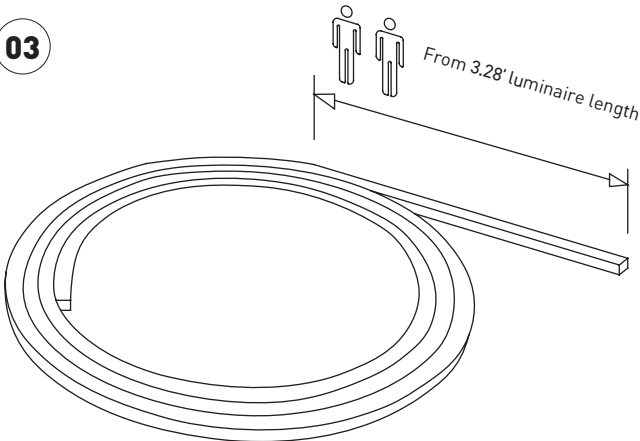


### TEMPERATURE FOR ASSEMBLY

To ensure proper installation, they must be brought to room temperature before installation. Depending on the storage location (-30°C / +85°C), the flexibility of the luminaire can be significantly reduced when temperatures are too low. Warming up to room temperature makes the luminaire flexible for proper assembly. In the case of temperatures below + 18 ° C, keep the product switched on for at least **30 minutes in the place of installation**, before unrolling it.

**The best temperature for assembly is between +18°C to +35°C.**

03



### UNROLL THE PRODUCT

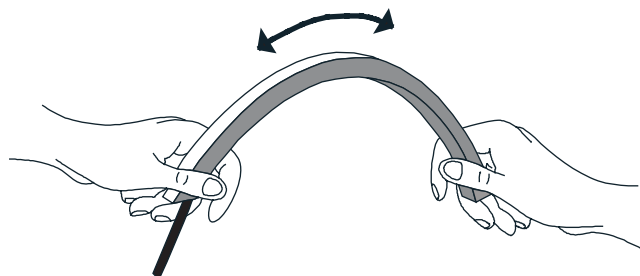
Unroll the product gradually and carefully from the packing.

**Attention:** If the luminaire is longer than 3.28', the installation should be done by two people: one person for pressing the product onto the surface and one person to hold up the package with the rest of the luminaire. During the installation of the product, especially when the product is longer than 6.56', it is important to handle it very careful. Otherwise the conductor tracks in the product can easily be damaged through improper bending.

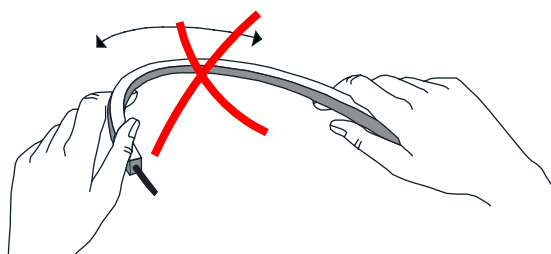
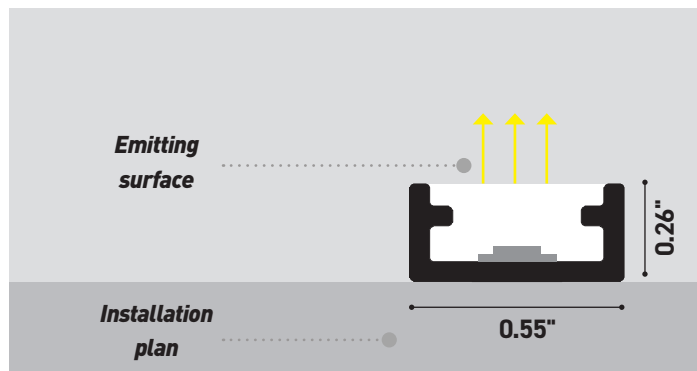
It is important to make sure that no part of the product is hanging down.

Thereby, the bending radius can be undershot and the product can take extensive damage.

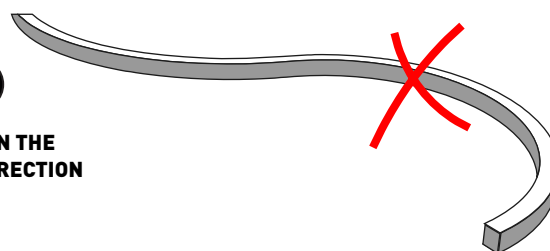
## TOP EMISSION



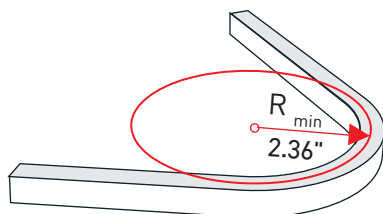
VERTICAL BENDABLE



**NO**  
NO FLEX IN THE  
OPPOSITE DIRECTION

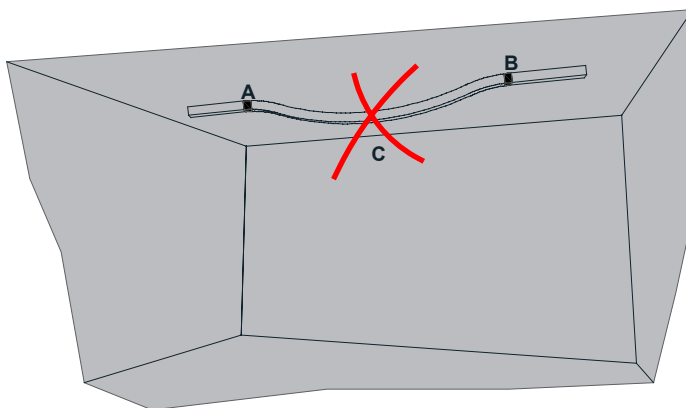


**Note.** The strip is vertical bendable. Curve the profile only in the indicated axis. In case of non-observance of the given indication, the electrical functionality of the product will be compromised, with consequent luminous interruption of the LED strip. Do not twist it.



**MINIMUM  
CURVATURE RADIUS**

**Note.** Do not bend the profile with radius less than 2.36". In case of curvature less than the indicated value, the electrical functionality of the product will be compromised, with consequent luminous interruption of the LED strip.

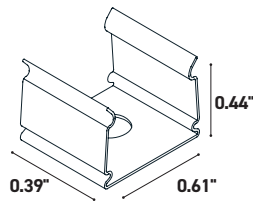


**Note.** In the case of a ceiling installation, respect a distance between the two A and B fastening clips of 19.69" to prevent the product from having unwanted bending at the intermediate point C.

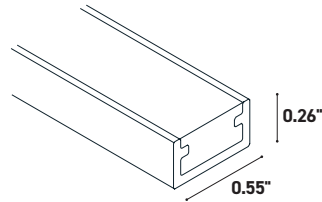
## Mounting scheme with harmonic steel clips



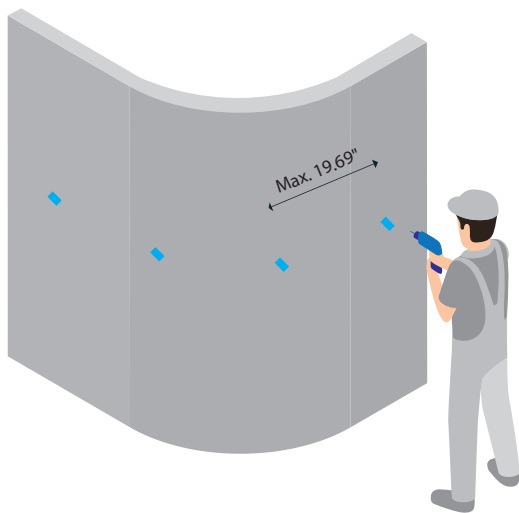
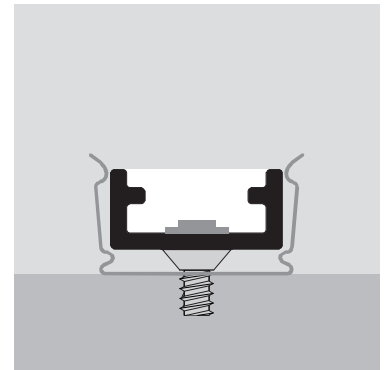
**Countersunk screw**  
to fix the product  
to the installation plane



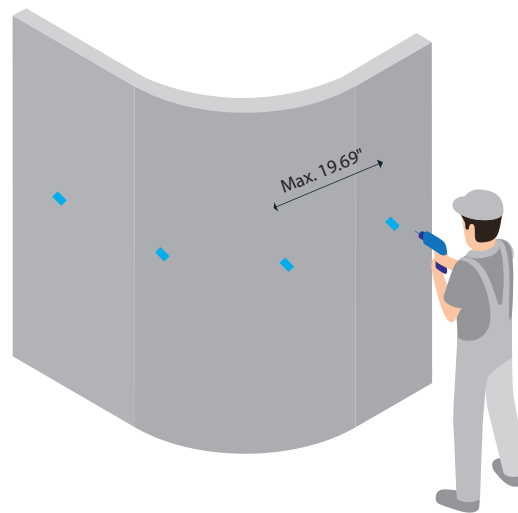
**CLIP-AC-14x6.5-AC**  
**Harmonic steel clips**  
to press-in the LED strip



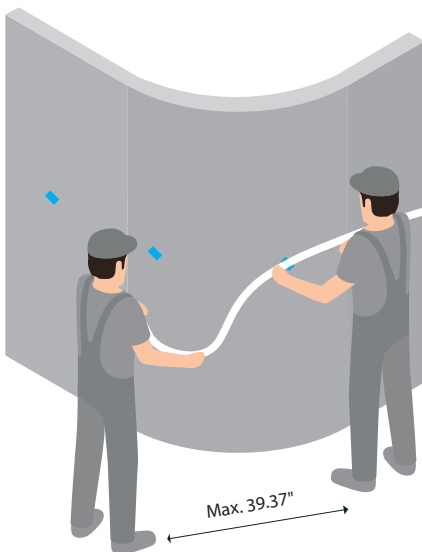
**LED strip**  
extruded in flexible PVC and treated  
with polyurethane resin



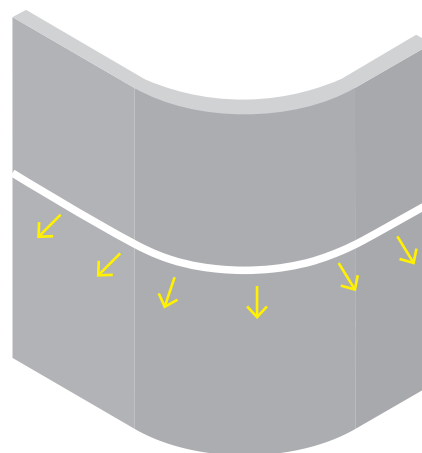
**01.** Prepare the screw inlet by drilling the installation plan.



**02.** By placing the clip on the installation plane, fasten it to the same with the countersunk screw.



**03.** Enter the LED strip in the clip by pressing.

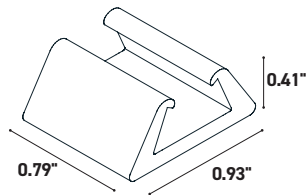


**04.** Connect.

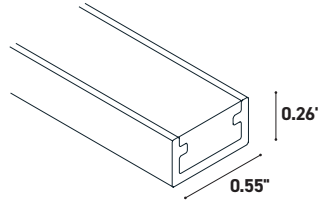
## Mounting scheme with **sylicone clips**



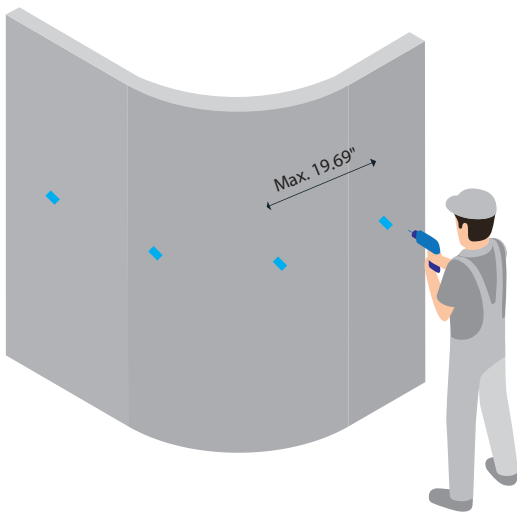
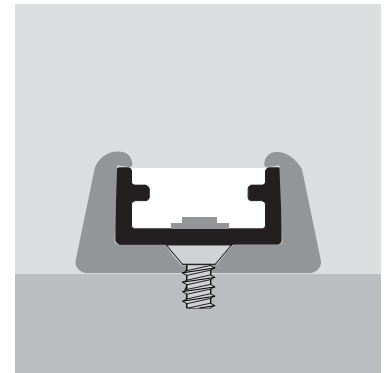
**Countersunk screw**  
to fix the product  
to the installation plane



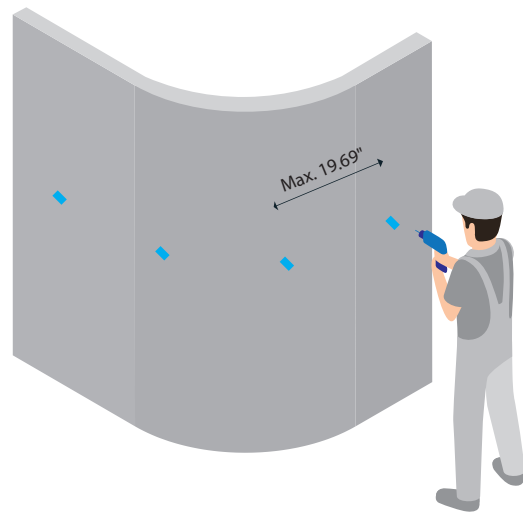
**CLIP-S-14x6.5.F/W**  
**Sylicone clips**  
to press-in the LED strip



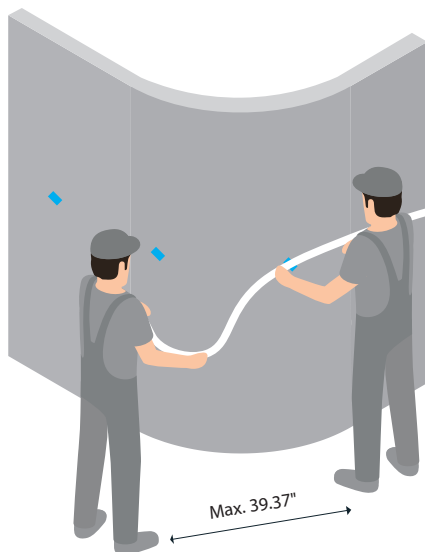
**LED strip**  
extruded in flexible PVC and treated  
with polyurethane resin



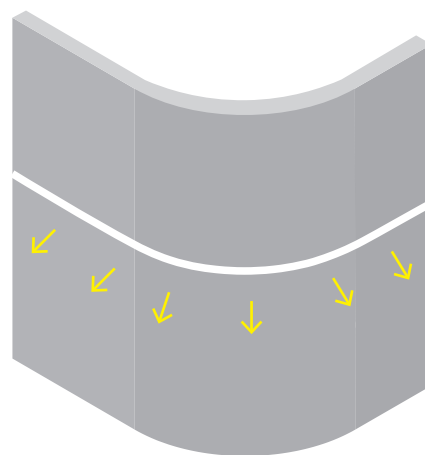
**01.** Prepare the screw inlet by drilling the installation plan.



**02.** By placing the clip on the installation plane, fasten it to the same with the countersunk screw.



**03.** Enter the LED strip in the clip by pressing.



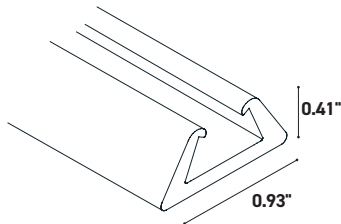
**04.** Connect.

## Mounting scheme with **sylicone outercase**



### Countersunk screw

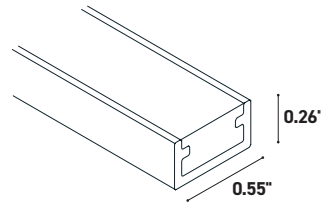
to fix the product  
to the installation plane



OUT-S-14x6.5.F/W

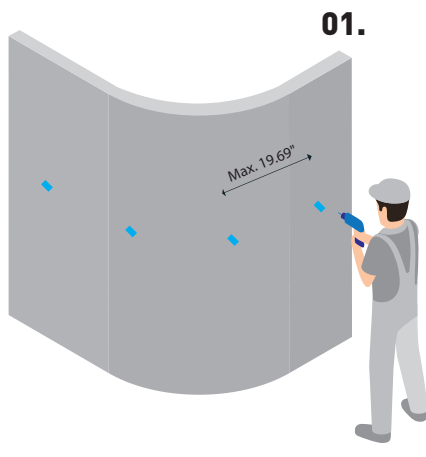
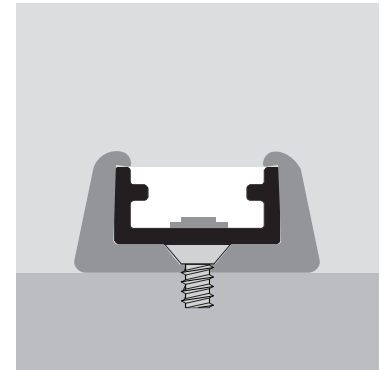
### Sylicone outercase

to press-in the LED strip



### LED strip

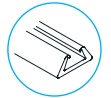
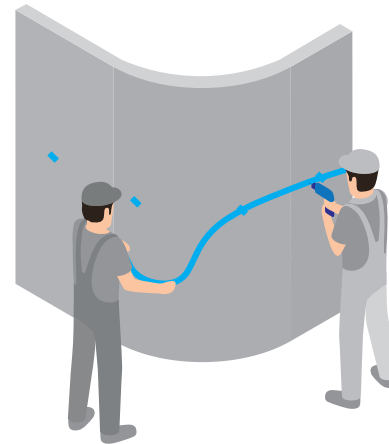
extruded in flexible PVC and treated  
with polyurethane resin



01.

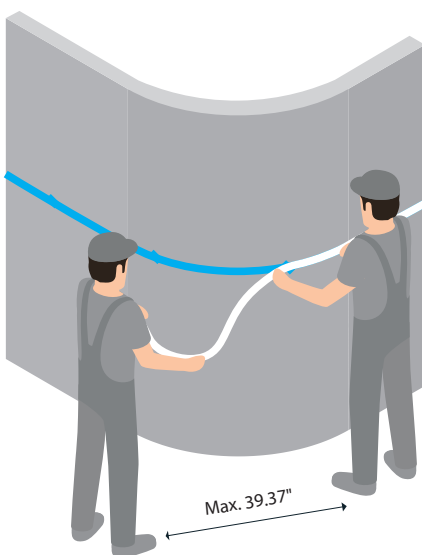


02.

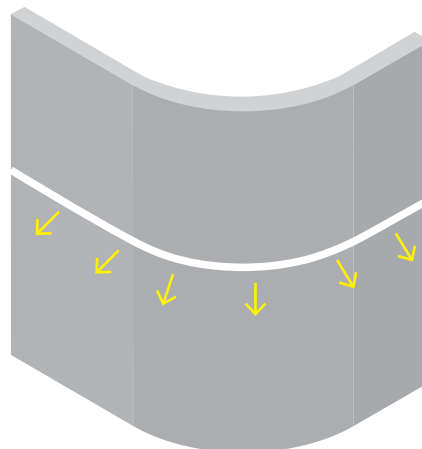


1. Prepare the screw inlet by drilling the installation plan.
2. Pre-drill the sylicone outercase with the selected screw diameter.

03. By placing the sylicone outercase on the installation plane, fasten it to the same with the countersunk screw.



04. Enter the LED strip in the sylicone outercase by pressing.



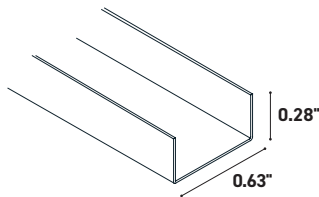
05. Connect.



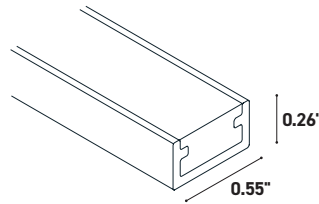
## Mounting scheme with aluminum outercase



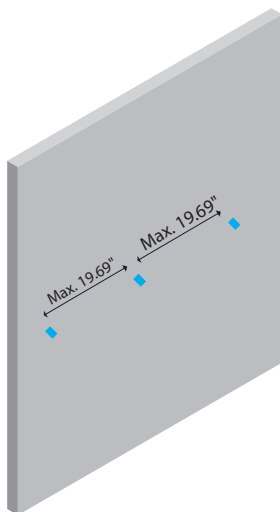
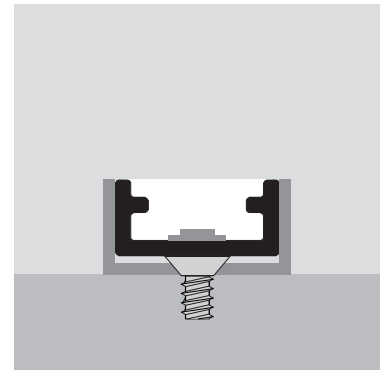
**Countersunk screw**  
to fix the product  
to the installation plane



**PRO-AL-14x6.5-AL**  
**Aluminum outercase**  
to press-in the LED strip



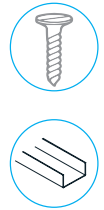
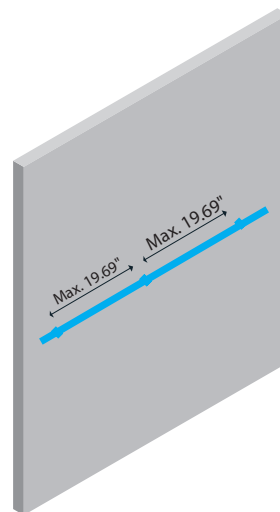
**LED strip**  
extruded in flexible PVC and treated  
with polyurethane resin



**01.**

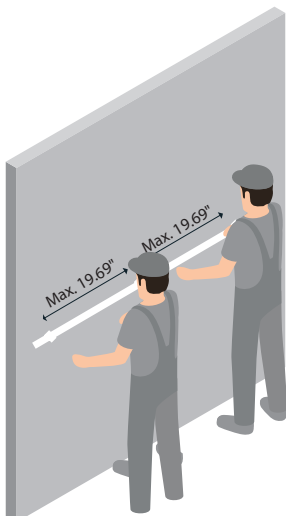


**02.**

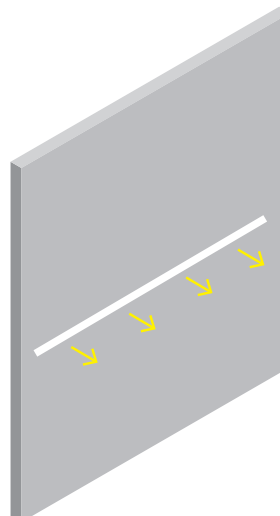


- 1.** Prepare the screw inlet by drilling the installation plan.
- 2.** Pre-drill the aluminum outercase with the selected screw diameter.

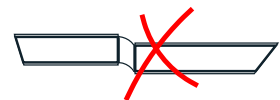
- 03.** By placing the aluminum outercase on the installation plane, fasten it to the same with the countersunk screw.



- 04.** Enter the LED strip in the aluminum outercase by pressing.



- 05.** Connect.

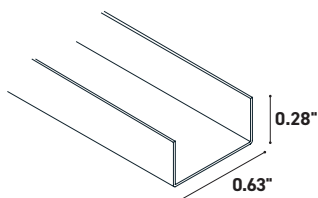


**Note.** In case of continuous line installation, align the individual light lines to avoid malfunctions of the LED PCB.

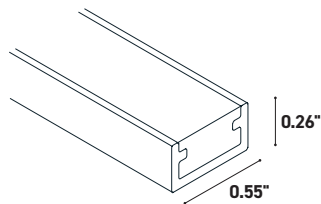
## Mounting scheme with steel guide



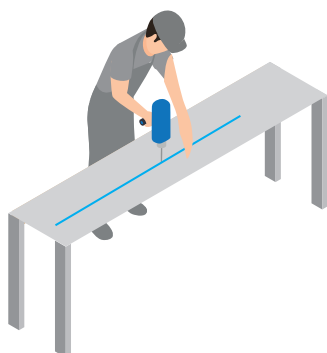
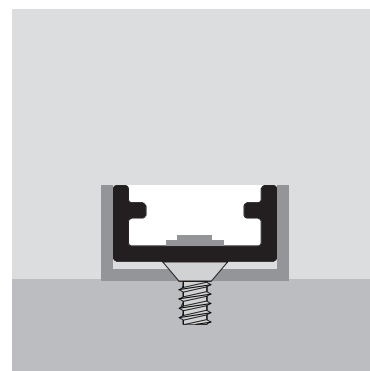
**Countersunk screw**  
to fix the product  
to the installation plane



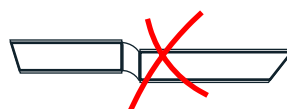
**Steel guide**  
to insert by pressure  
the LED strip



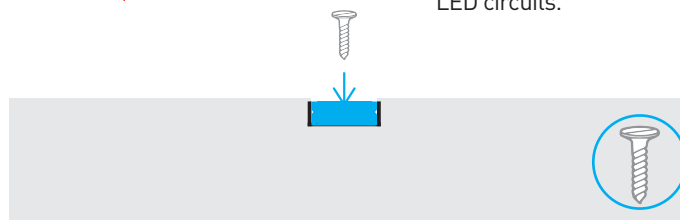
**LED strip**  
extruded in flexible PVC and treated  
with polyurethane resin



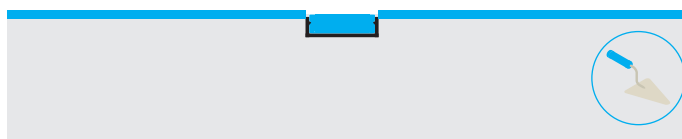
**01.** Pre-drill the steel profile with the diameter of the chosen screw.



**Note.** In case of continuous row installation, align the individual light lines well to avoid malfunctions of the LED circuits.



**02.** Place the steel profile on the installation surface, fixing it to it with the countersunk screw.



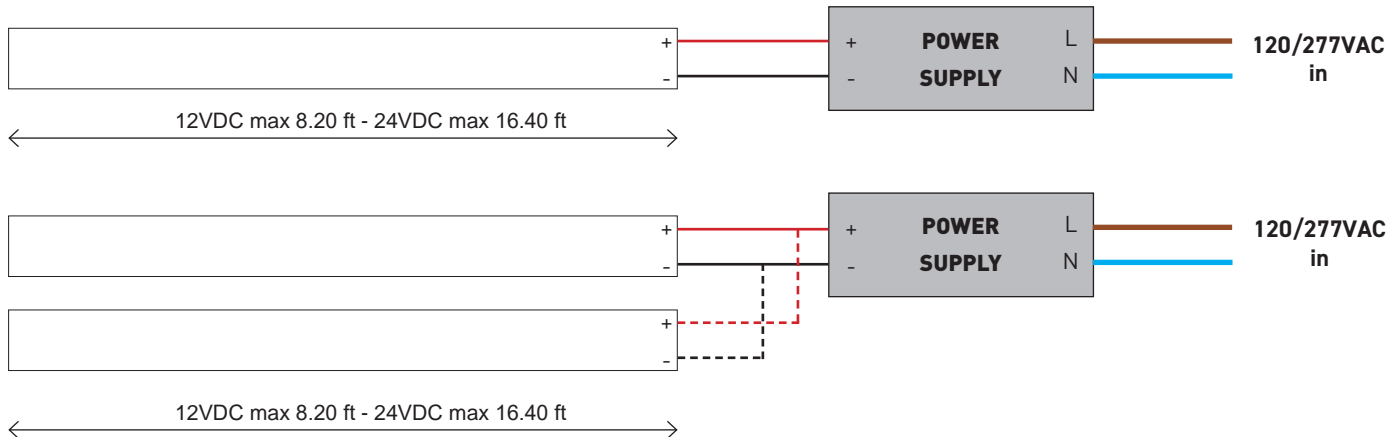
**03.** Smooth the installation surface.



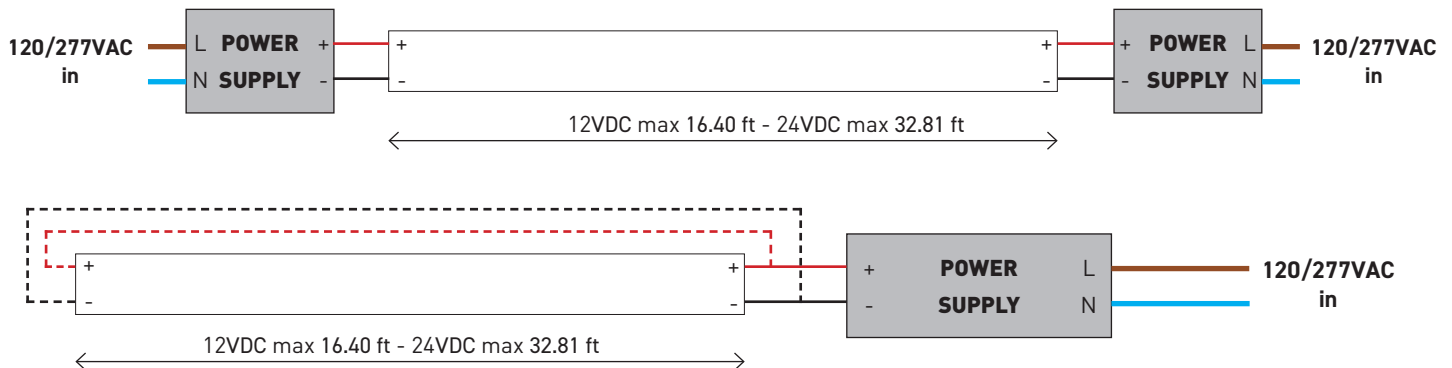
**04.** Press the LED strip into the guide and connect the LED Strip.  
*The strip must be inserted inside with glue, but can be removed in the event of breakage.*

## Electrical connection scheme

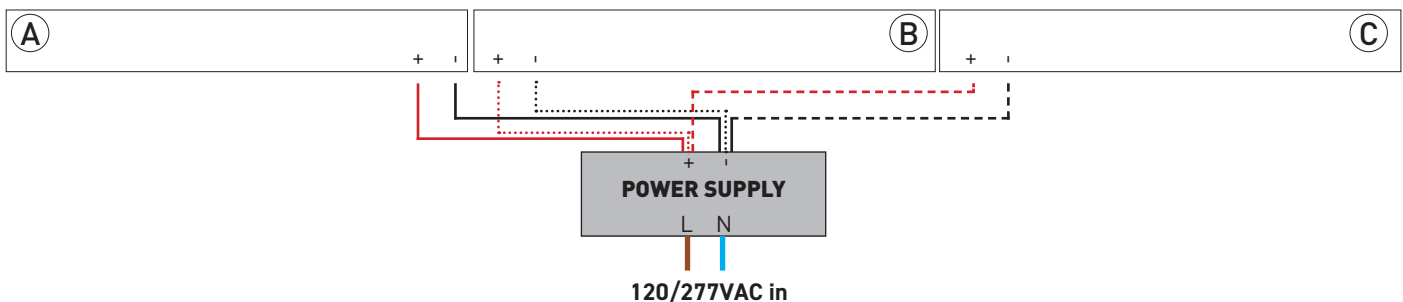
Single end connection, 12VDC max 8.20 ft - 24VDC max 16.40 ft



Double end connection, 12VDC max 16.40 ft - 24VDC max 32.81 ft



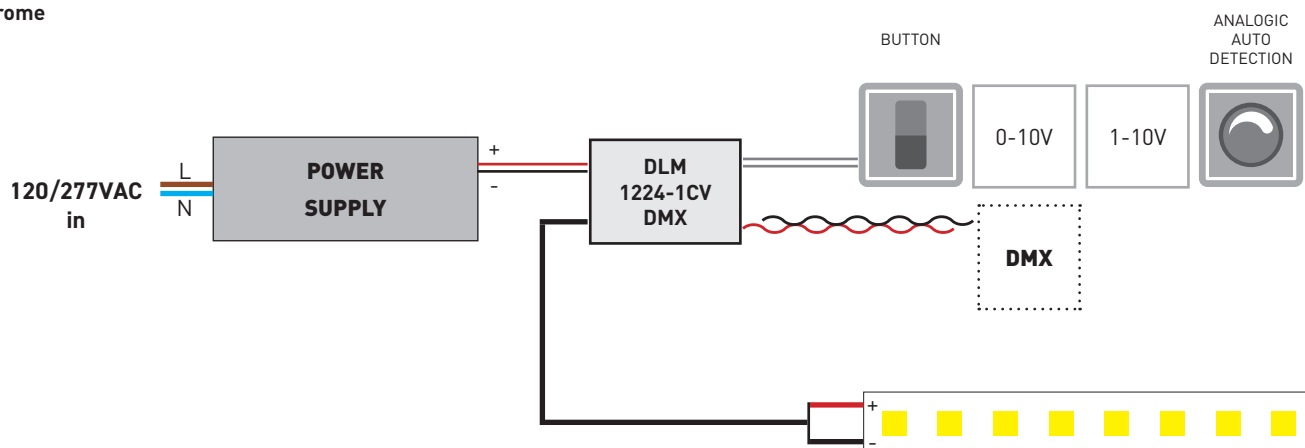
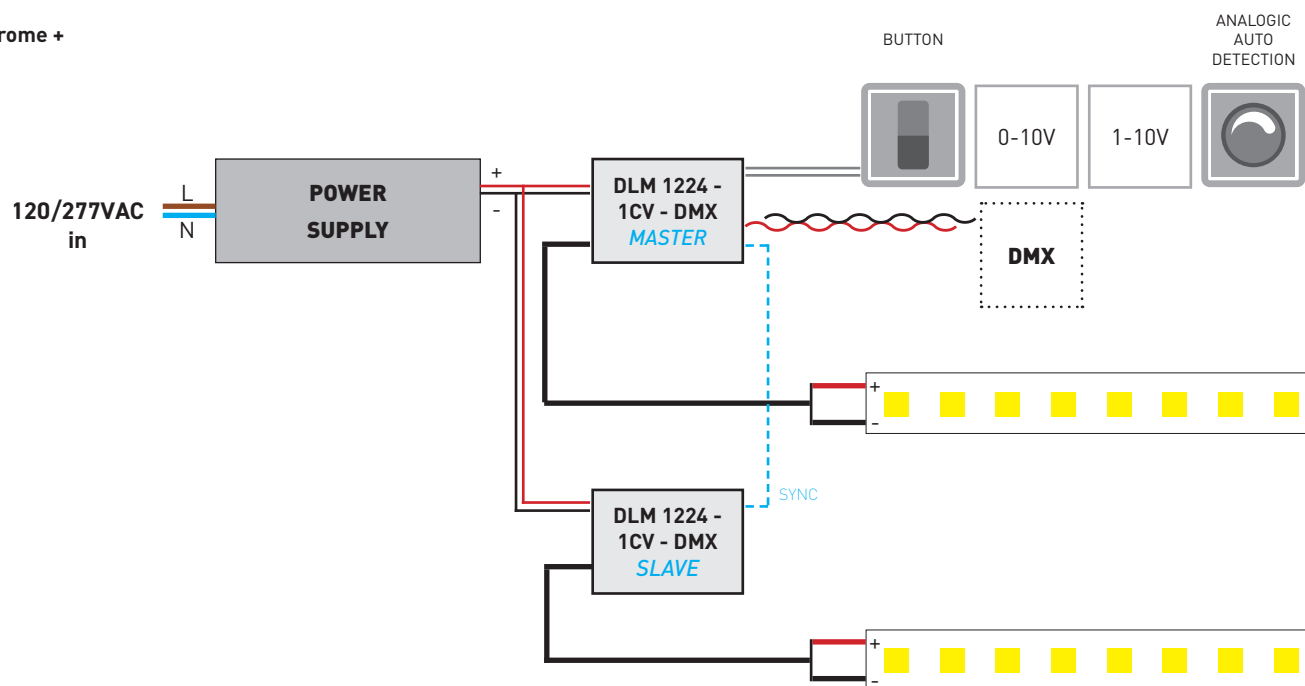
Connection between profiles: continuous line configuration



**Note.** The configured cables have a maximum length. Check on the data sheet.

**Dimming scheme****DMX**

Code	Voltage	Current	Power	Channel	Control	Source	Dimensions (LxWxH)
DLM1224-1CV DMX	12V 24V	1 x 10A	120W (12V) 240W (24V)	1	DMX Button 0-10V /1-10V Potentiometer	Monochrome	1.77"x2.28"x0.75"

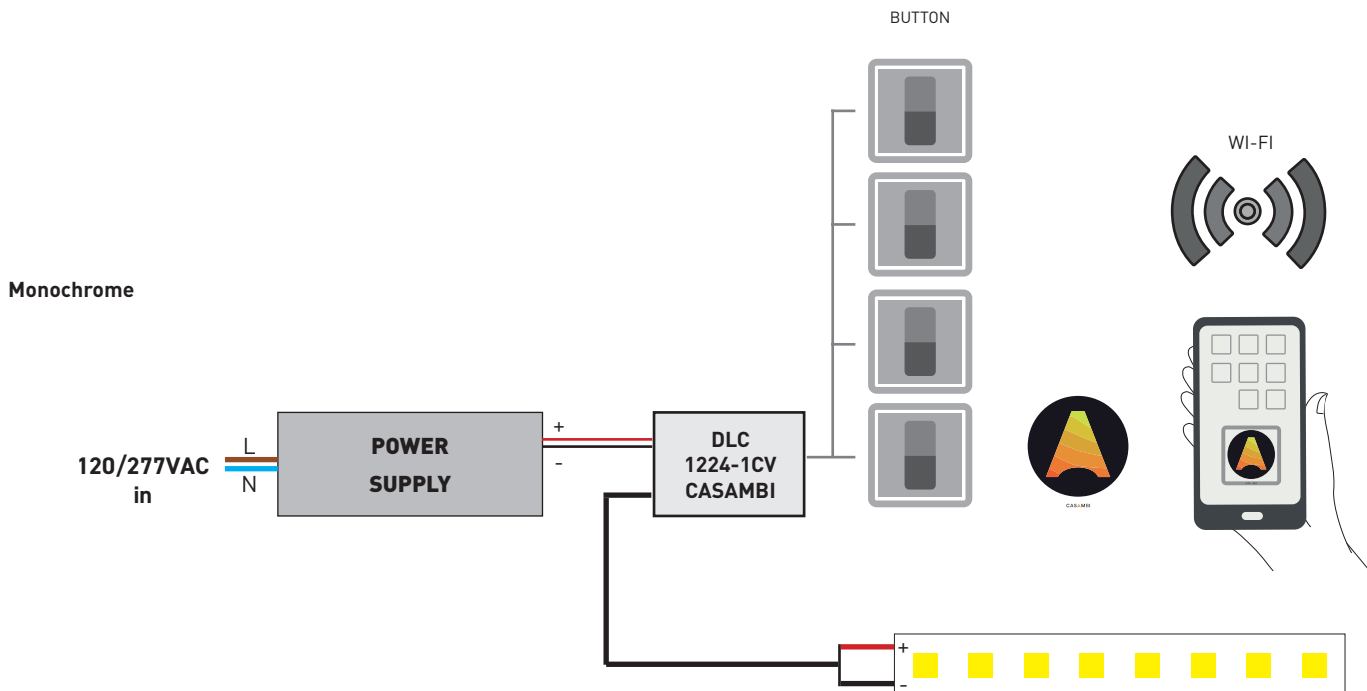
**Monochrome****Monochrome + slave**

## Dimming scheme

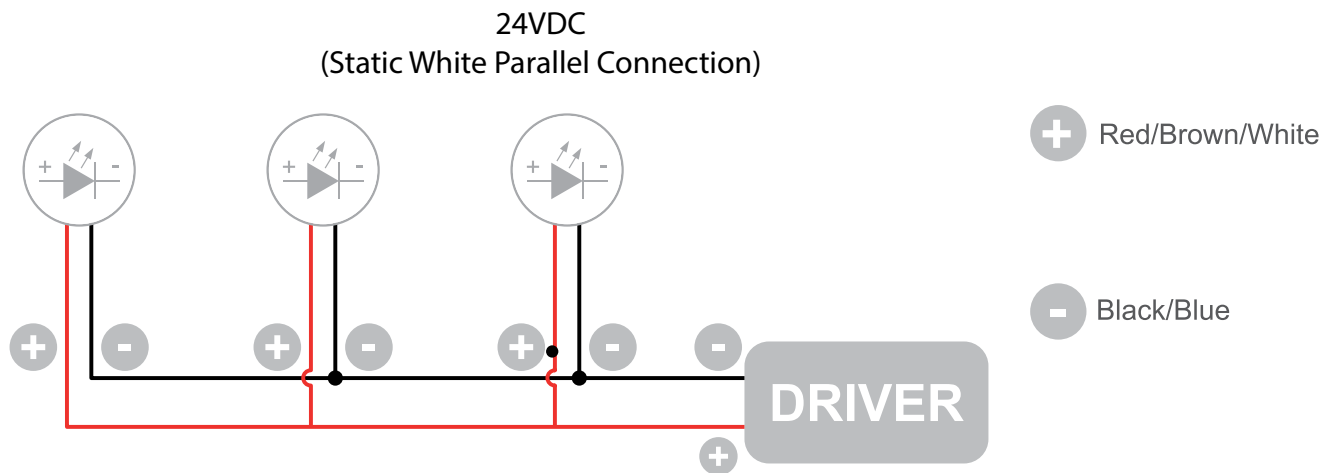
### CASAMBI



Code	Voltage	Current	Power	Channel	Control	Source	Dimensions (LxWxH)
DLC1224-1CV CASAMBI	12V 24V	1 x 10A	120W (12V) 240W (24V)	1	App. CASAMBI button	Monochrome	1.77"x2.28"x0.75"



## Wiring Diagram



The individual lamps must be connected in parallel. Only power up the system once all the lamps have being connected.

- Only power up the system once all the lamps are connected. Connecting an individual lamp to an active power supply may cause the lamp to break due to over-voltage.
- Lamps and power supply units must be installed in well-ventilated boxes or locations to allow a natural heat diffusion and avoid the devices overheating.
- On the power system, install a surge protection device to reduce the intensity of any voltage spikes to protect the lighting fixtures from the risk of damage.
- Fixture NOT suitable for covering with thermally insulating material.