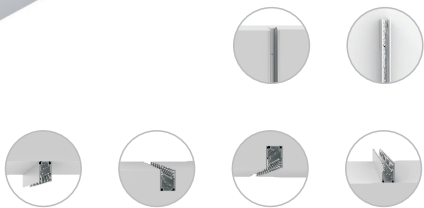

**Mounting Profiles Specification and
Installation Instructions of
Flexneo III**

Serrated Aluminum Profile

LuxeLED®

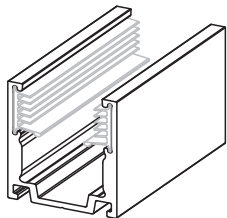
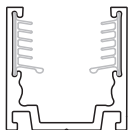


Specialized for the LED Flex Linear light, it was developed by combining the advantages of 6063 aluminum and elastic serrated tape. The inside elastic serrated tape as the grabbing force to keep continuous strong clamping force on the light body and protect the light from the damage caused by the large friction in the process of installation and dismantlement.

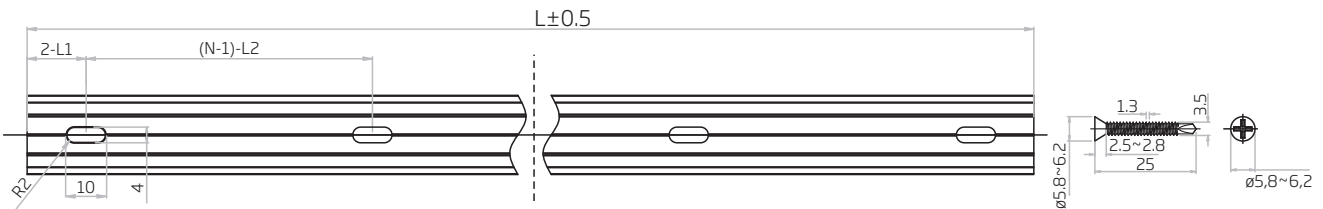
Please refer to the applicable installation ways.

Test Object	No.	Experiment Item	Standard
Metal Parts	1	Weather Resistance-Salt Spray	IEC 68-2-11
Mounting profile	2	Clamping force	LuxeLED-defined

Dimension: mm



Tolerance: $\pm 0.3\text{mm}$



Note:
1. 2-L1 refers to two of symmetric L1 in each piece of profile.
2. (N-1)-L2 refers to (N minus one) of symmetric L2 in each piece of profile.
"N" hereby stands for its corresponding "Hole Number" in the below table.

Item Code	Standard Length	L1	L2	Slotted Hole	Hole Number
FLXIII-SA/PL-20MM	20mm/0.787in	10mm/0.39in	/	4*10mm/0.16*0.39in	1
FLXIII-SA/PL-500MM	500mm/19.68in	50mm/1.97in	200mm/7.87in	4*10mm/0.16*0.39in	3
FLXIII-SA/PL-1000MM	1000mm/39.37in	100mm/3.93in	200mm/7.87in	4*10mm/0.16*0.39in	5
FLXIII-SA/PL-2000MM	2000mm/78.74in	100mm/3.93in	200mm/7.87in	4*10mm/0.16*0.39in	10

Flange Serrated Aluminum Profile

LuxeLED®



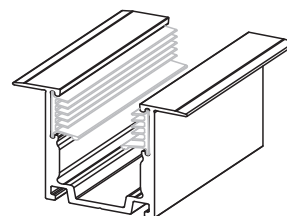
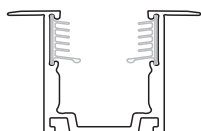
Specialized for the LED Flex Linear light, it was developed by combining the advantages of 6063 aluminum and elastic serrated tape. The inside elastic serrated tape as the grabbing force to keep continuous strong clamping force on the light body and protect the light from the damage caused by the large friction in the process of installation and dismantlement.

The “Flange” design is more suitable for recessed installation, better fits with the mounting groove and minimizes the operation tolerance during construction to some extent, like shielding the rough edges and the gaps of oversized groove.

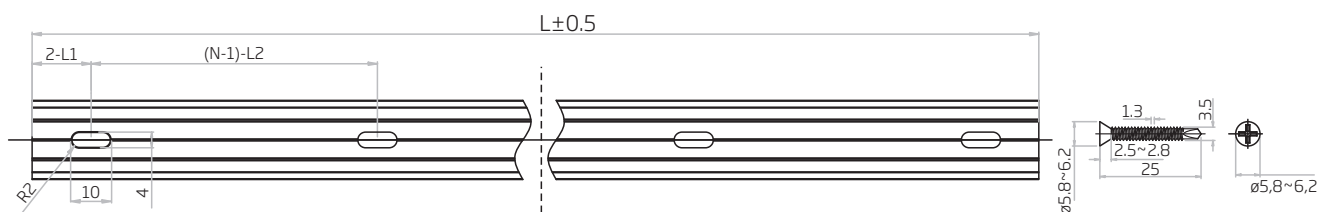
Please refer to the applicable installation ways.

Test Object	No.	Experiment Item	Standard
Metal Parts	1	Weather Resistance-Salt Spray	IEC 68-2-11
Mounting profile	2	Clamping force	LuxeLED-defined

Dimension: mm



Tolerance: $\pm 0.3\text{mm}$



Note:

1. 2-L1 refers to two of symmetric L1 in each piece of profile.
 2. (N-1)-L2 refers to (N minus one) of symmetric L2 in each piece of profile.
- “N” hereby stands for its corresponding “Hole Number” in the below table.

Item Code	Standard Length	L1	L2	Slotted Hole	Hole Number
FLXIII-FSA/PL-20MM	20mm/0.787in	10mm/0.39in	/	4*10mm/0.16*0.39in	1
FLXIII-FSA/PL-500MM	500mm/19.68in	50mm/1.97in	200mm/7.87in	4*10mm/0.16*0.39in	3
FLXIII-FSA/PL-1000MM	1000mm/39.37in	100mm/3.93in	200mm/7.87in	4*10mm/0.16*0.39in	5
FLXIII-FSA/PL-2000MM	2000mm/78.74in	100mm/3.93in	200mm/7.87in	4*10mm/0.16*0.39in	10

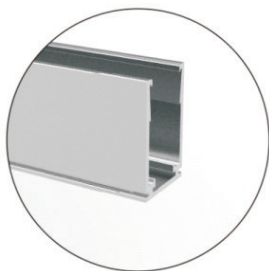
Profile Processing

1. It's not recommended to process the profile without any protection by finishing or coating, etc.
2. If any similar demands, please keep the profile clean after processing.
3. For the profile involved the serrated tape, please take its serrated tape out to avoid being deformed and useless affected by the high temperature generated, or discuss with the manufacturer to separate the package in advance.

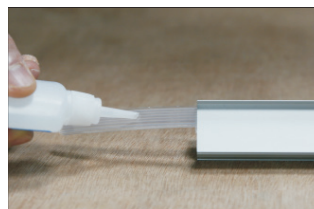
Serrate Tape



Profile Cutting



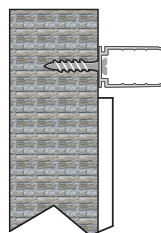
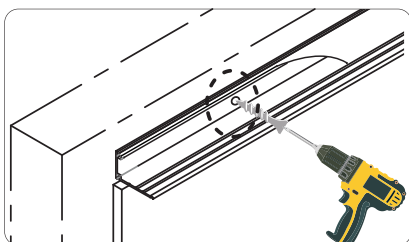
Make sure the cross-section of profile is smooth without any burrs when cutting, otherwise the light housing will be impaled and cause water ingress.



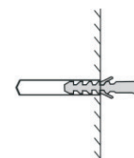
Round Head

For the profiles involved serrated tape, in case of any drop of serrated tape after cutting, please insert and fix it to the profile by a few adhesive glues on its backside, 5~8mm diameter of touching area is enough. Make sure its round head on the edge is downward when putting back.

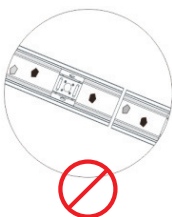
Profile Installation



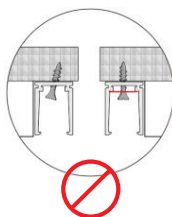
Install the screw into position and ensure the screw head is in line with or lower than the base of aluminum profile.



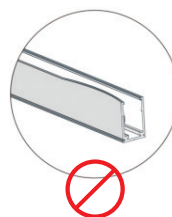
Place the rubber expansion bolt to assist with the screw fixation if the mounting surface is rigid.



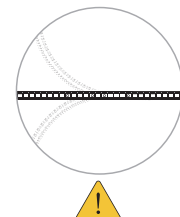
Make sure no debris in the profile before installation to avoid the light housing being impaled and cause water ingress.



Make sure no bulges on the slot to avoid the damage on the light and cause water ingress.



Do not use the profile deformed seriously.



It's recommended to mount in place at a time when using the bendable aluminum profile in case of any break due to the frequent repeated shaping.

Profile Jointing



1. Please reserve at least 5mm for profile jointing to enable enough space for contraction and expansion.



2. The profiles can be jointed to a right angle only if there are two pieces of lights connected to be a right angle.

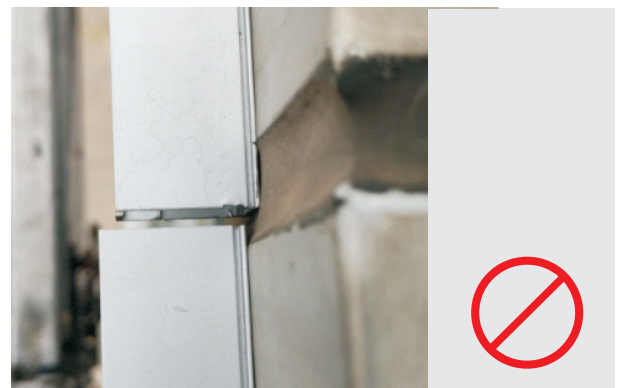
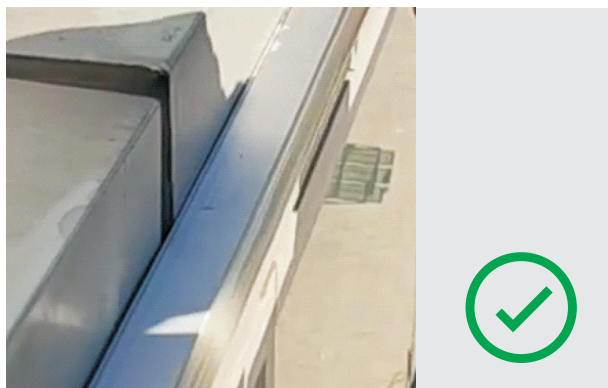


3. For the curve shaping of light, make sure to leave enough space to separate profiles in between or use the bendable profile instead.

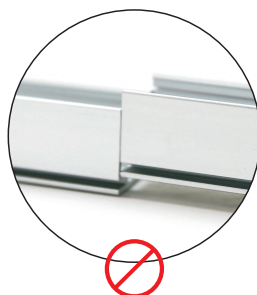
4. Splice Structure on Mounting Surface

In the case of an outdoor mounting surface with the splice structure, please make sure the mounting profile goes across the gap or separate the light and profile as per the splice structure.

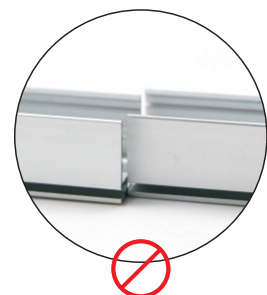
When the profile jointing lies where the mounting surface splices, contraction and expansion of the mounting surface in the long term will cause the misalignment of profiles and lights, and lead to the damage of inside PCB.



Angular Misalignment



Parallel Vertical Misalignment



Parallel Horizontal Misalignment

Above wrong misalignments will make the light improperly bent, and lead to the wrinkle or fracture on PCB.

Light Installation



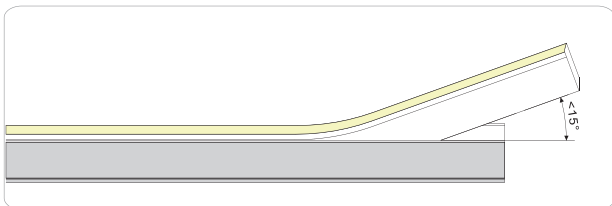
It's not recommended to install the light repeatedly, otherwise the light inside might be damaged.



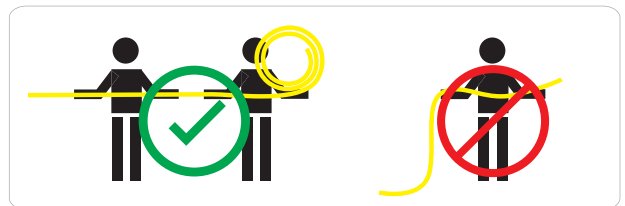
Make sure the light is fitted in vertically.



Press the light into the profile by the palm instead of the finger, otherwise it might damage inside electronic components due to the overpressure caused.

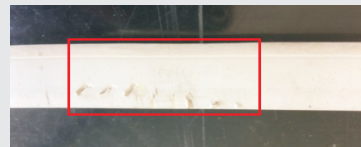
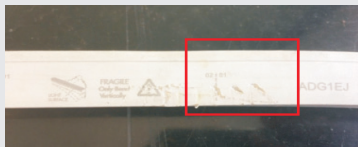


Make sure the angle between the light and profile is not bigger than 15°, otherwise inside PCB might be damaged.

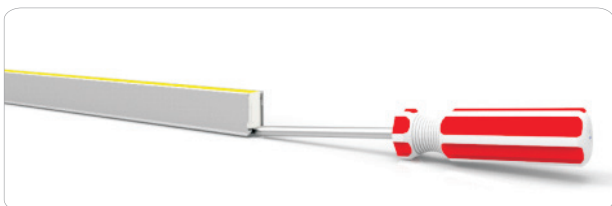


When light length > 2m, make sure somebody helps to lift the light, in case the heavy weight of light itself generates too small bending angle or twisting, which may damage inside PCB.

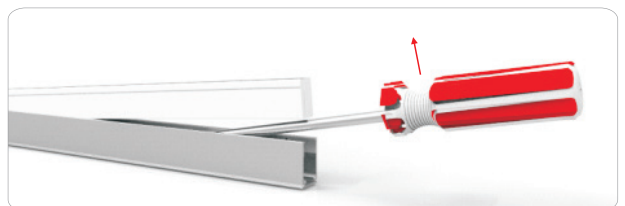
Make sure the light body is not scratched during installation, otherwise the light housing will be impaled and cause water ingress.



Light Uninstallation



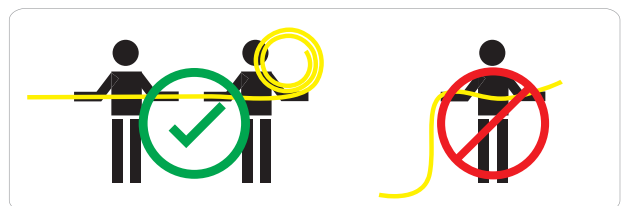
Prepare a screwdriver, and put the screwdriver at the bottom of light.



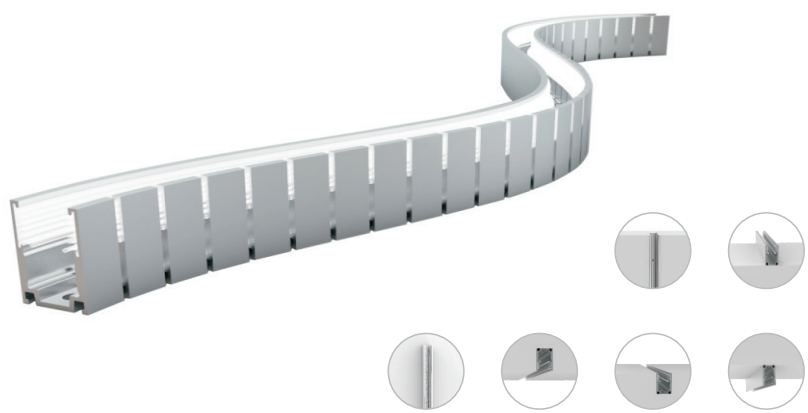
Move the screwdriver and unclench the light upwardly. Be careful the angle between the light and profile should not be bigger than 15°.



Once the end of light is out, hold both sides of light by hand and pull it out along the profile slowly and orderly. Make sure the angle between the light and profile is not bigger than 15°, otherwise inside PCB might be damaged.



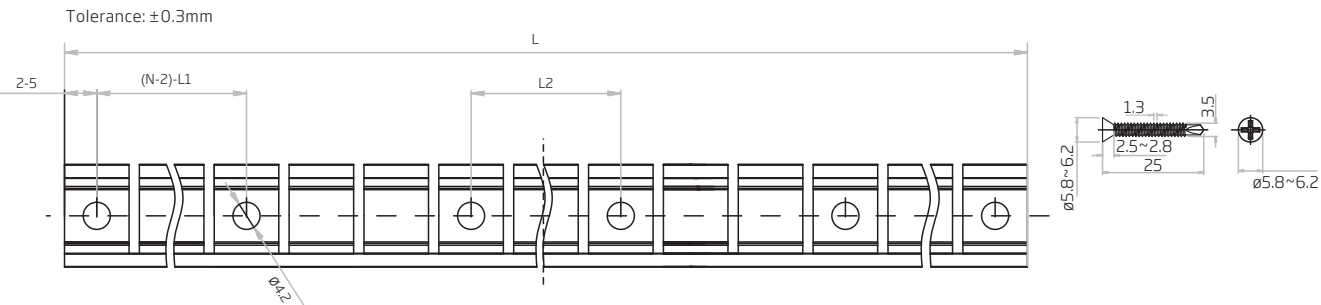
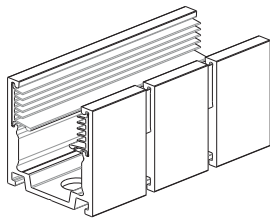
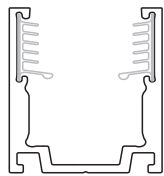
When light length > 2m, make sure somebody helps to lift the light, in case the heavy weight of light itself generates too small bending angle or twisting, which may damage inside PCB.



It is an expanded design of the serrated aluminum profile, and caters for the continuously streamlined aesthetics of curve shape. The secondary precision cutting process, not only maintains the advantage of clamping force, but also enables the two-way horizontal bending directions with super shape memory.

Please refer to the applicable installation ways.

Test Object	No.	Experiment Item	Standard
Metal Parts	1	Weather Resistance-Salt Spray	IEC 68-2-11
Mounting profile	2	Clamping force	LuxeLED-defined



Note:

1. 2-5 refers to two of symmetric 5mm in each piece of profile.

2. (N-2)-L1 refers to (N minus two) of symmetric L1 in each piece of profile.

"N" hereby stands for its corresponding "Hole Number" in the below table.

Item Code	Standard Length	L1	L2	Screw Hole	Hole Number
FLXIII-BSA/PL-500MM	500mm/19.68in	116.5mm/4.59in	23.3mm/0.92in	Ø4.2mm/0.17in	6
FLXIII-BSA/PL-1000MM	1000mm/39.37in	116.5mm/4.59in	58.2mm/2.29in	Ø4.2mm/0.17in	10

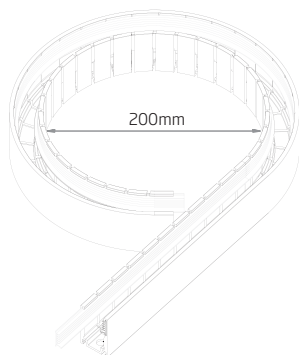
Installation Instructions

LuxeLED®

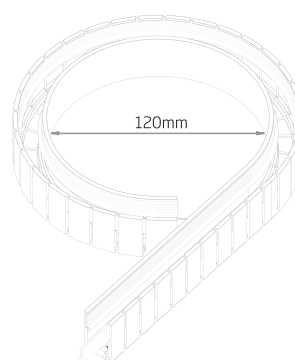
Friendly Reminder: please read instructions carefully before operation.

Bending Diameter

Min. Bending Diameter (Toothed Side inwards)

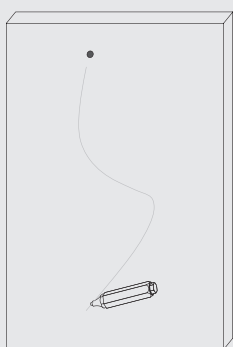


Min. Bending Diameter (Toothed Side outwards)



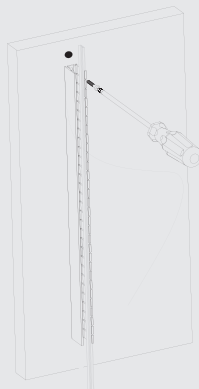
Installation

➤ Step 1



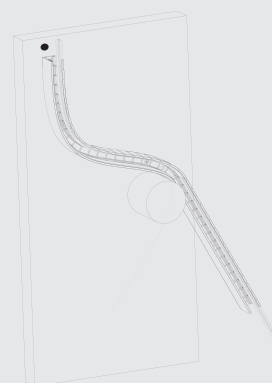
Mark the required shape on the mounting surface or print the sketch in the scale of 1:1 if complicated.

➤ Step 2



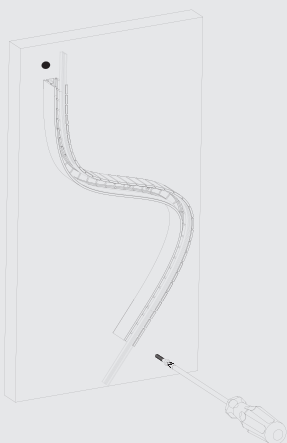
Get the front connector outside of profile and keep at least 10mm more apart. Fix the screw starting from the power input end.

➤ Step 3



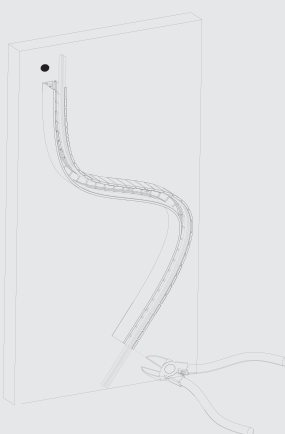
Use cylinder or disc-like object you have to assist with shaping.

➤ Step 4



Fix the rest in sequence along with the marks.

➤ Step 5



Adjust the serrate silicone tape and remove the redundant lengths at both ends.

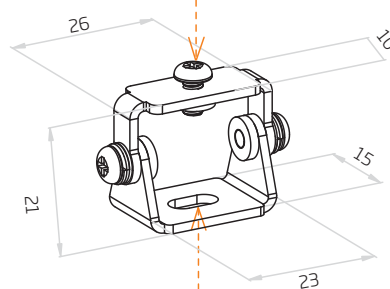
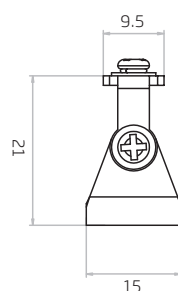
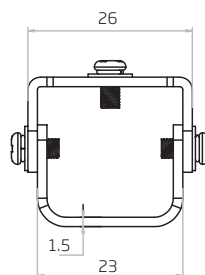
➤ Step 6



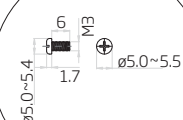
Finish and fix the light in.

Pivot Mounting Bracket

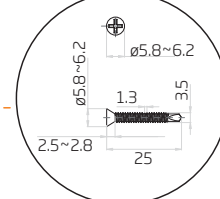
LuxeLED®



Screw: PM 3*6



Screw: KA 3.5*25



Note:

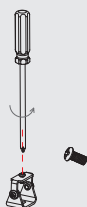
Applicable to all types of mounting profiles.

Pivot Mounting Bracket

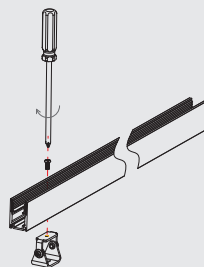
LuxeLED®

Installation Instructions

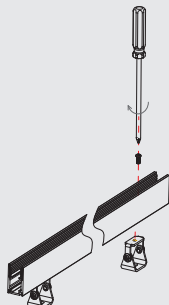
➤ Step 1



➤ Step 2



➤ Step 3



Step 1:

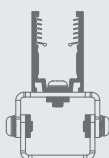
Remove the upper screw from pivot mounting bracket.

Step 2:

Fix pivot mounting bracket and mounting profile tightly by the screw.

Step 3:

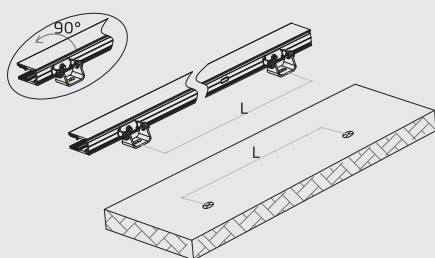
Repeat step 1 & step 2 for the remaining brackets and secure at least 2 locking points for each mounting profile, and the equal interval is more recommended.



Warning:

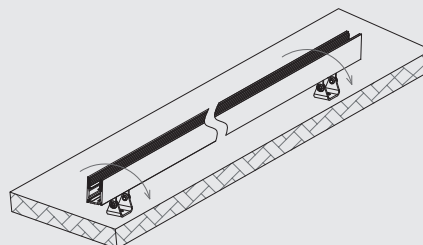
Keep pivot mounting bracket and mounting profile parallel from the side view.

➤ Step 4



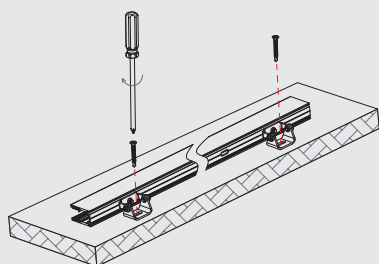
Rotate pivot mounting bracket till the showing up of the unfixed screw hole to facilitate the installation with mounting surface as per the pre-marked hole.

➤ Step 5



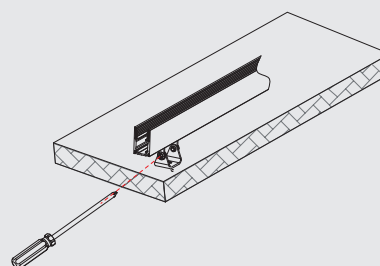
Fix pivot mounting bracket to mounting surface by KA3.5*25 screw.

➤ Step 6



Adjust the angle of mounting profile to the one required.

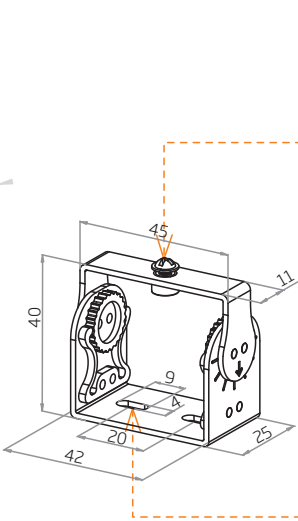
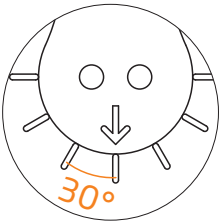
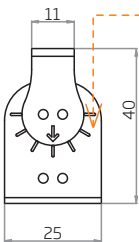
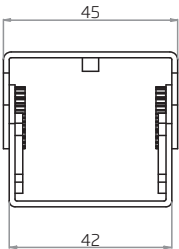
➤ Step 7



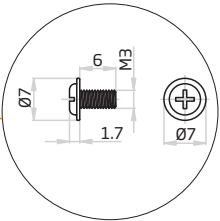
Tighten the side screws of pivot mounting bracket to avoid loosened locking point.

Rotary locking Bracket

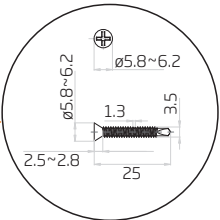
LuxeLED®



Screw: PWM3*6 1 PC



Screw: KA 3.5*25 2PCS



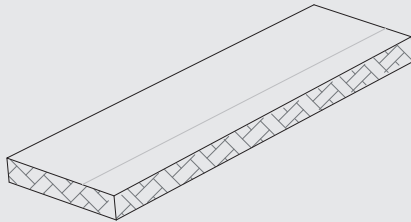
Note:
Applicable to all types of mounting profiles.

Rotary Locking Bracket

LuxeLED®

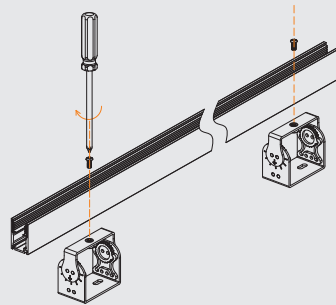
Installation Instructions

➤ Step 1



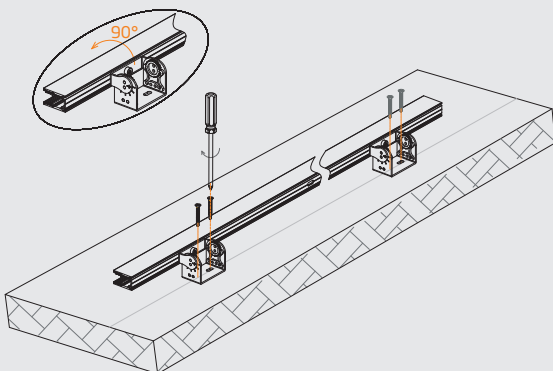
Mark the installation position on the mounting surface.

➤ Step 2



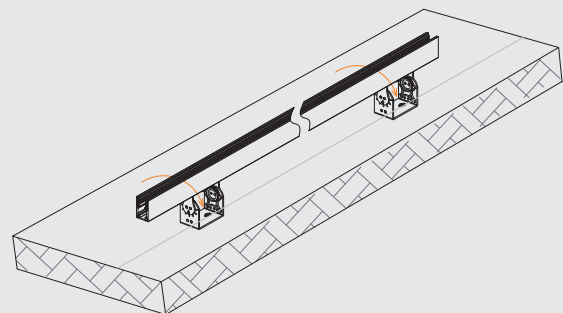
Fix the mounting profile to the rotary locking bracket by screws.

➤ Step 3



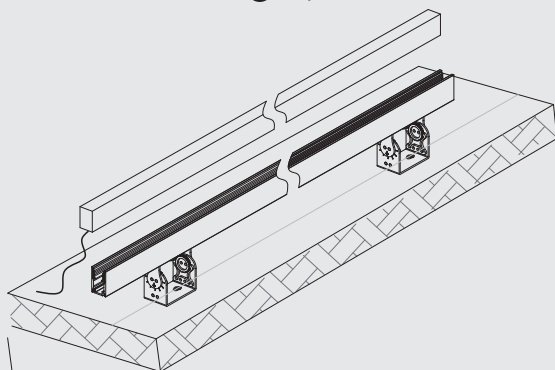
Lay the mounting profile aside and fix the rotary locking bracket to the mounting surface by screws along the marking line.

➤ Step 4



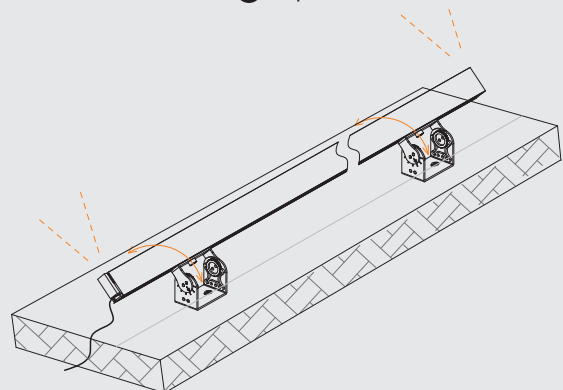
Turn back the mounting profile.
Please skip to step 7 for length extension (one piece of light crossing multiple pieces of mounting profiles).

➤ Step 5



Install the light orderly and leave the front connector and end cap outside of mounting profile .

➤ Step 6



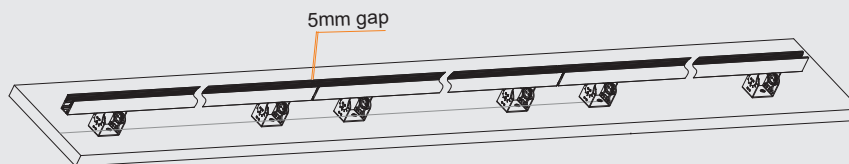
Power on the light and rotate the mounting profile to the desired lighting angle.

Rotary Locking Bracket

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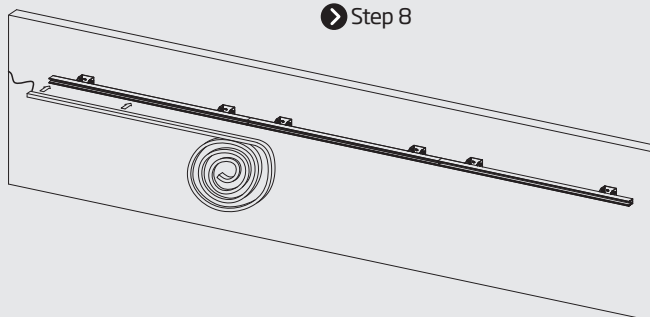
For length extension (one piece of light crossing multiple pieces of mounting profiles)

➤ Step 7



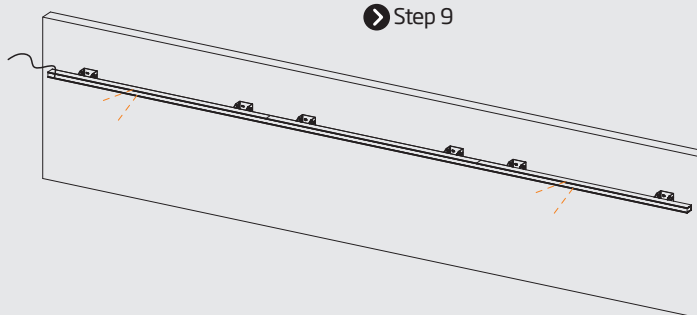
Please reserve 5mm gap between mounting profiles in case of contraction and expansion.

➤ Step 8



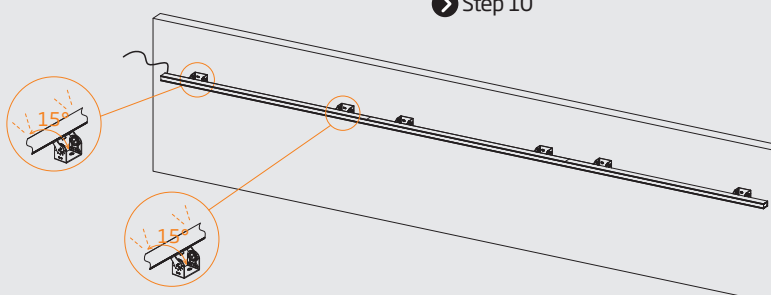
Fit the light into the first piece of mounting profile and keep the remaining lights coiled.
Next repeat step 6 to adjust the lighting angle.

➤ Step 9



Adjust the rest of mounting profile to the same angle and then install the coiled light orderly.

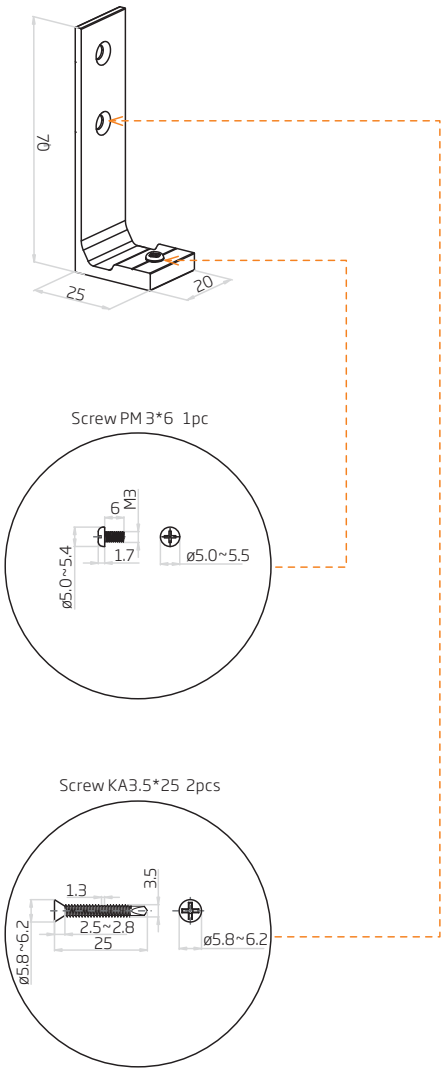
➤ Step 10



If you need further adjustment after installation, please fine tune rotary locking bracket 15 degree each time one by one in case of twisting on lights.

Side Mounting Bracket

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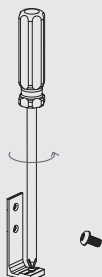
Note:
Applicable to all types of mounting profiles.

Side Mounting Bracket

LuxeLED®

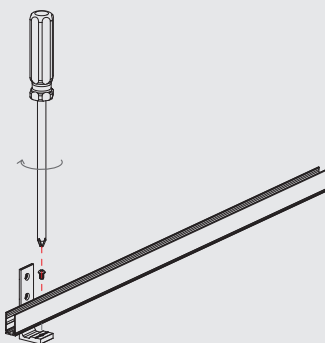
Installation Instructions

➤ Step 1



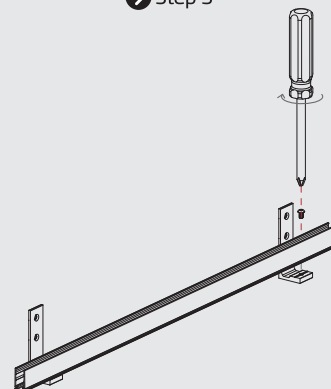
Remove the PM3*6 screw of side mounting bracket.

➤ Step 2



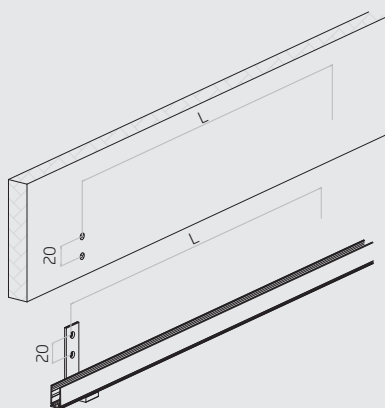
Fix side mounting bracket and mounting profile tightly by the screw.

➤ Step 3



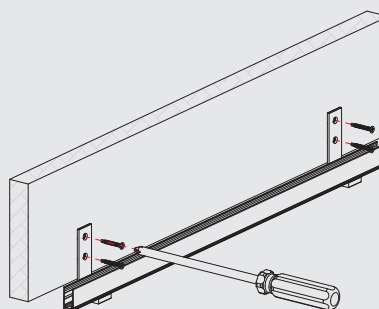
Repeat step 1 & step 2 for the remaining brackets and secure at least 2 locking points for each mounting profile, and the equal interval is more recommended.

➤ Step 4



Mark the pilot holes on mounting surface accordingly.

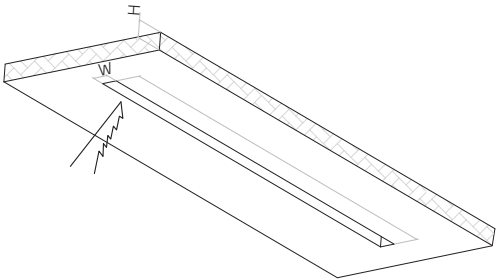
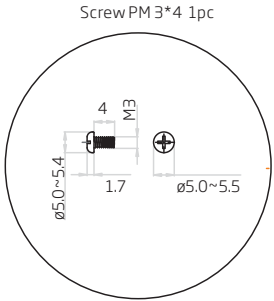
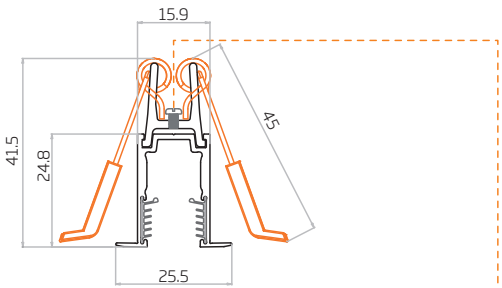
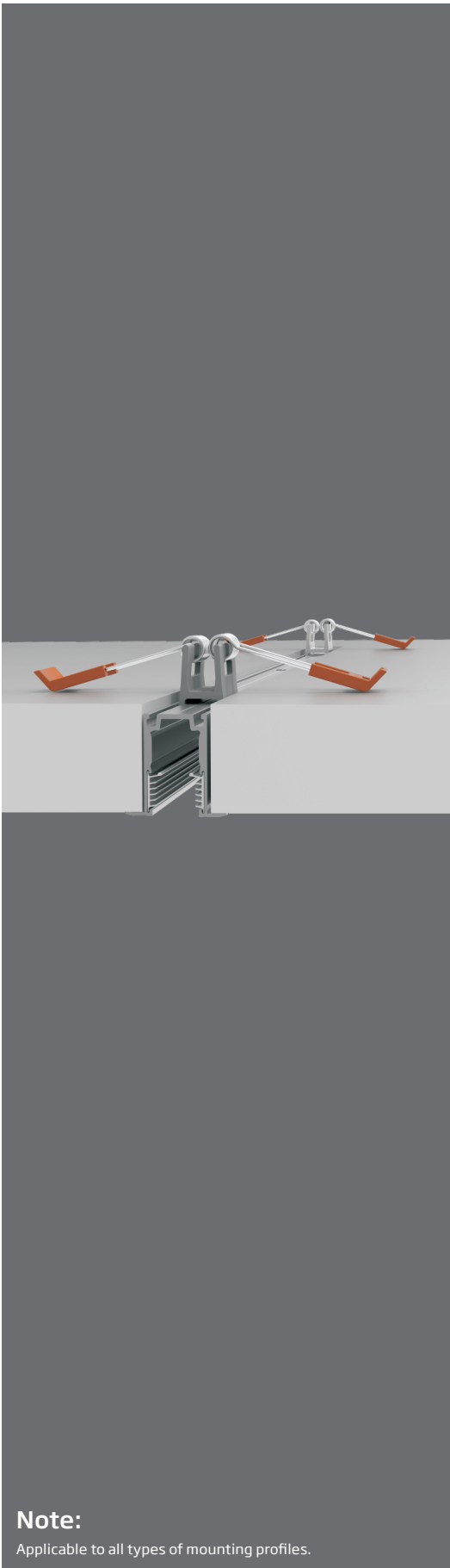
➤ Step 5



Fix the side mounting bracket by KA3.5*25 screws.

Ceiling Mounting Clip

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The width applicable : 17~20mm
The thickness of ceiling: 5~50mm

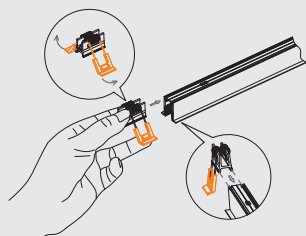
Note:
Applicable to all types of mounting profiles.

Ceiling Mounting Clip

LuxeLED®

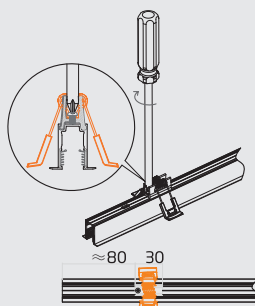
Installation Instructions

➤ Step 1



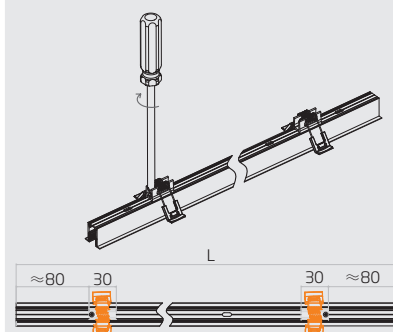
Unfold the spring a little and slide to groove of mounting profile.

➤ Step 2



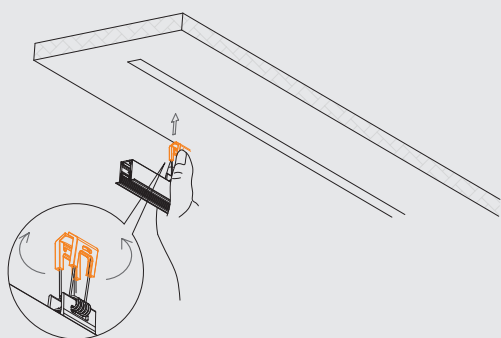
Slide forward ceiling mounting bracket 80mm and fix the screw tightly.

➤ Step 3



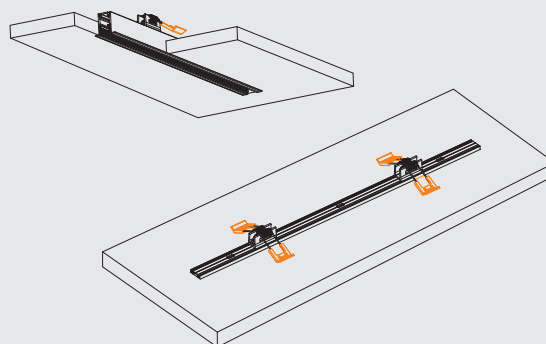
Repeat step 1 & step 2 for the remaining brackets and secure at least 2 locking points for each mounting profile and the equal interval is more recommended.

➤ Step 4



Mark and then slot the ceiling as per the following dimension.

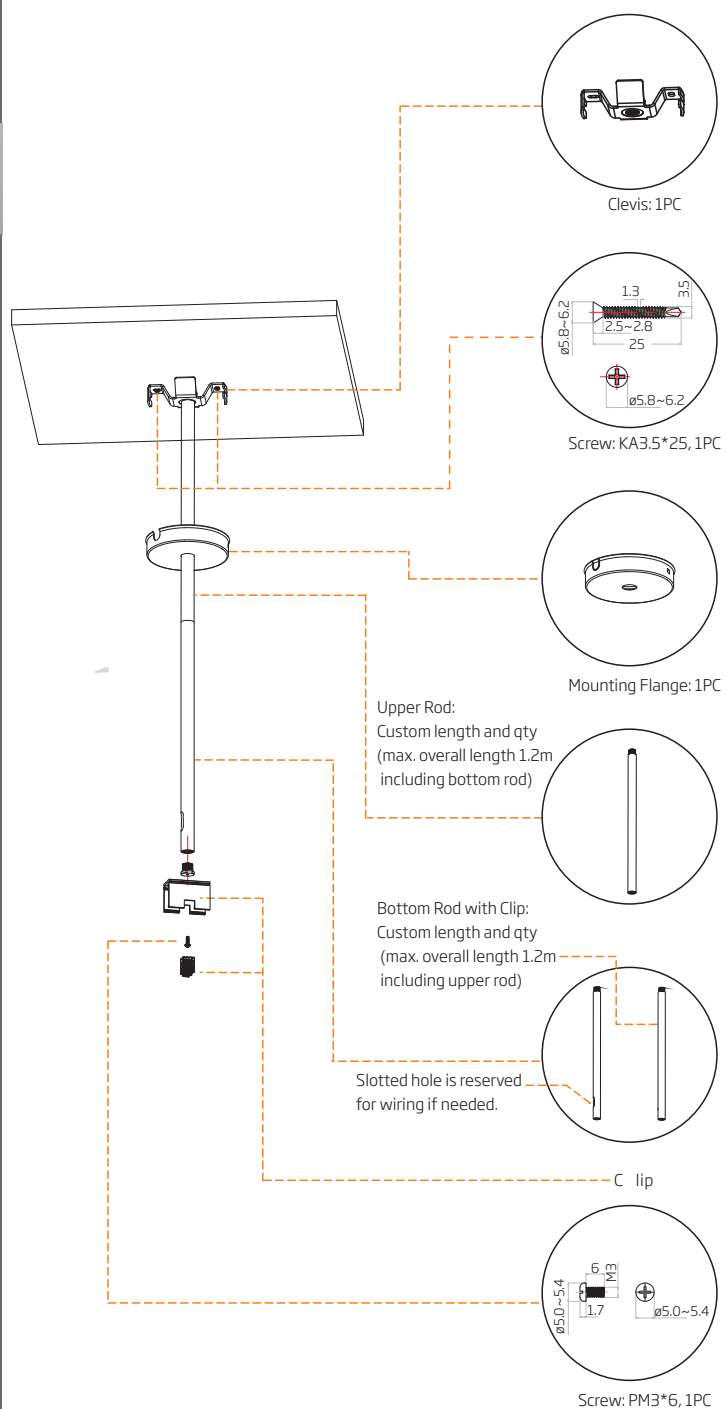
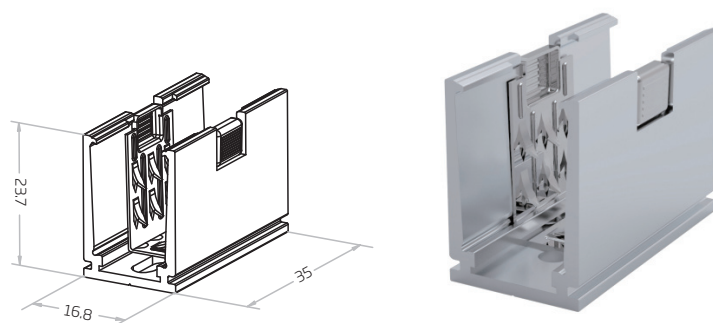
➤ Step 5



Hold the springs with hands and loosen them after clipping into the ceiling.

Suspended Mounting Clip

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Note:

Applicable to all types of mounting profiles.

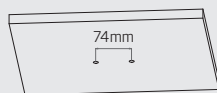
Ceiling Mounting Clip

LuxeLED®

Installation Instructions

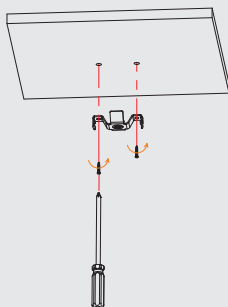
Suspended Mounting Rod **without Wiring**

➤ Step 1



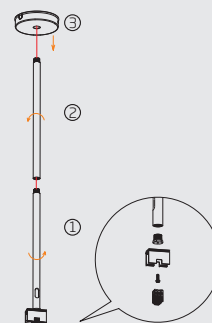
Mark the installation position of clevis on the ceiling with sufficient load-carrying capacity.

➤ Step 2



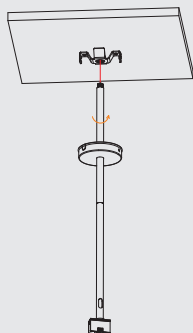
Tighten the clevis by screws.

➤ Step 3



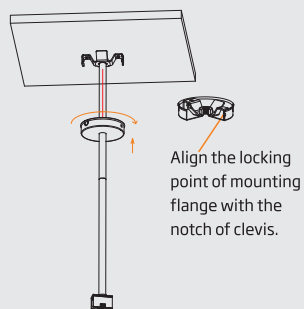
Assemble the mounting flange and the rods in order of ① ② ③ .

➤ Step 4



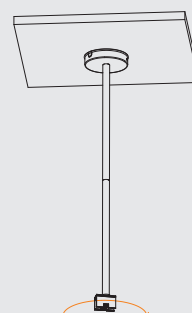
Rotate and fasten them clockwise.

➤ Step 5



Shield the clevis by the mounting flange and rotate anticlockwise until it clicks into place.

➤ Step 6



Adjust the clip to the angle you need (max. 180° in a clockwise direction).

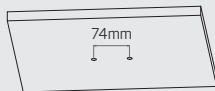
Ceiling Mounting Clip

LuxeLED®

Installation Instructions

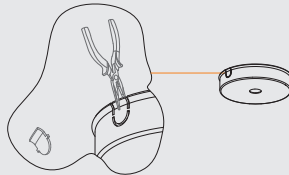
Suspended Mounting Rod with Surface Wiring

Step 1



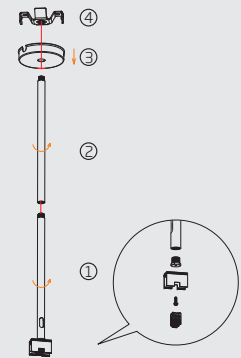
Mark the installation position of clevis on the ceiling with sufficient load-carrying capacity.

Step 2



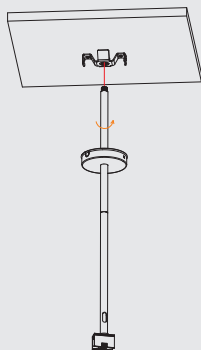
Cut a cable hole along with the pre-marked notch on the lateral side of mounting flange.

Step 3



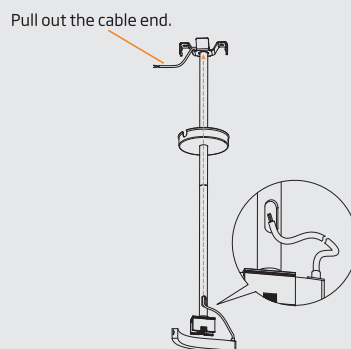
Assemble the mounting flange and the rods in order of ① ② ③ ④.

Step 4



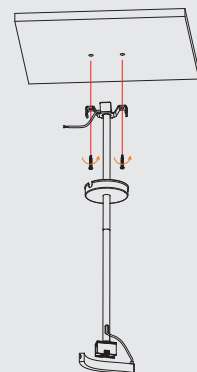
Rotate and fasten them clockwise.

Step 5



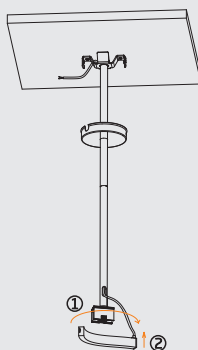
Thread the cable through slotted hole to the top of rod.

Step 6



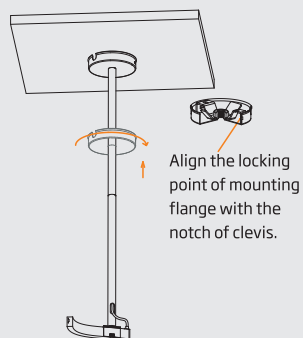
Tighten the clevis by screws.

Step 7



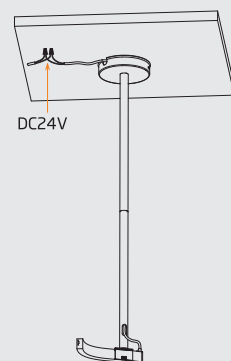
① Adjust the clip to the angle you need (max. 180° in a clockwise direction).
② Install the light to the clip and adjust the cable length.

Step 8



Align the locking point of mounting flange with the notch of clevis.
Shield the clevis by the mounting flange and rotate anticlockwise until it clicks into place.

Step 9



Connect the Power DC24V

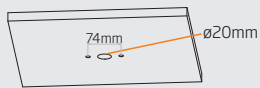
Ceiling Mounting Clip

LuxeLED®

Installation Instructions

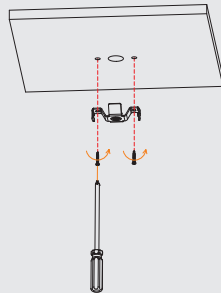
Suspended Mounting Rod with Concealed Wiring

➤ Step 1



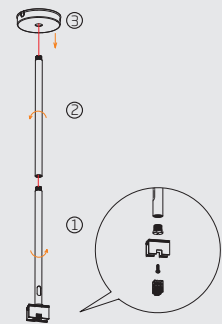
Mark the installation position of clevis on the ceiling with sufficient load-carrying capacity, and in between punch a Ø20mm cable hole.

➤ Step 2



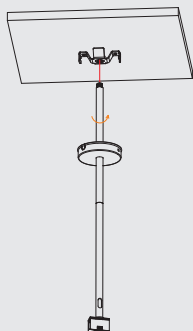
Tighten the clevis by screws.

➤ Step 3



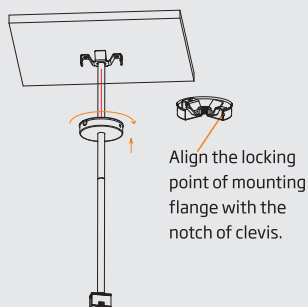
Assemble the mounting flange and the rods in order of ① ② ③.

➤ Step 4



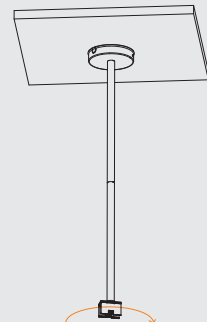
Rotate and fasten them clockwise.

➤ Step 5



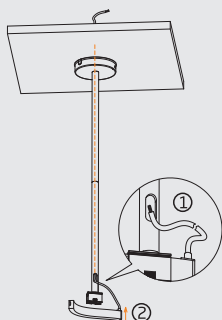
Shield the clevis by the mounting flange and rotate anticlockwise until it clicks into place.

➤ Step 6



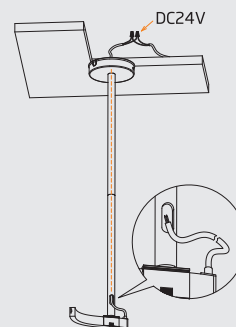
Adjust the clip to the angle you need (max. 180° in a clockwise direction).

➤ Step 7



- ① Thread the cable through holes to the inside of ceiling.
- ② Install the light to the clip and adjust the cable length.

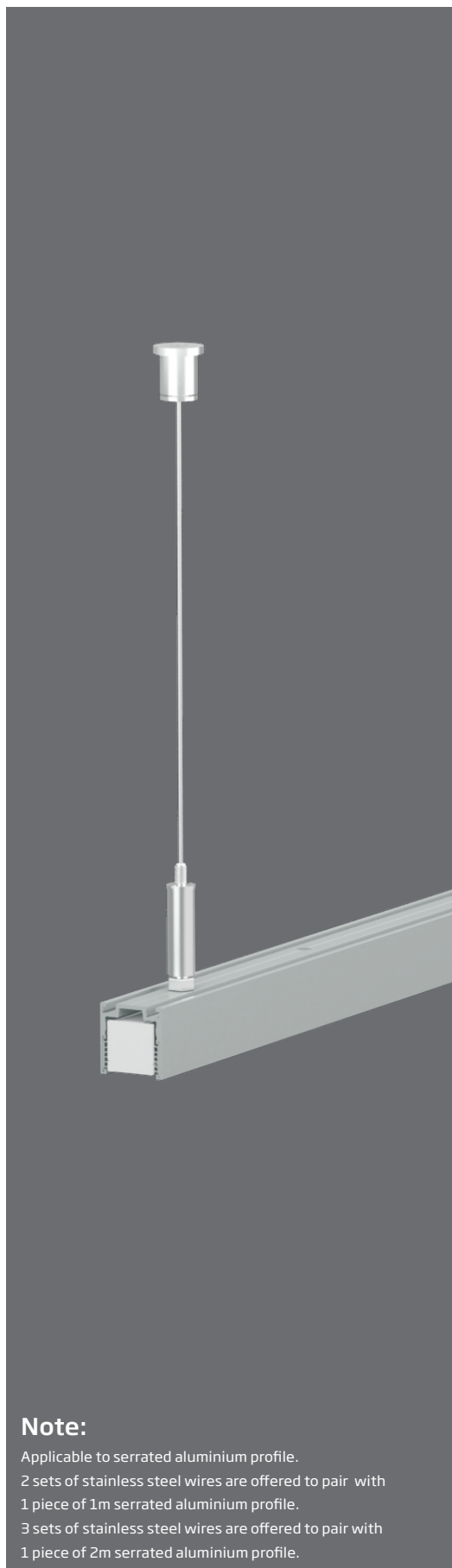
➤ Step 8



Connect the Power DC24V

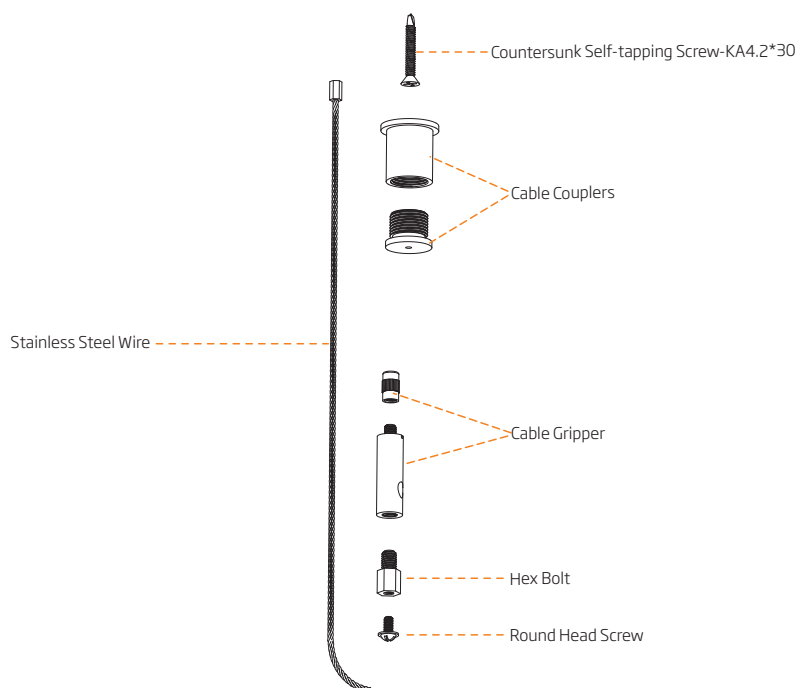
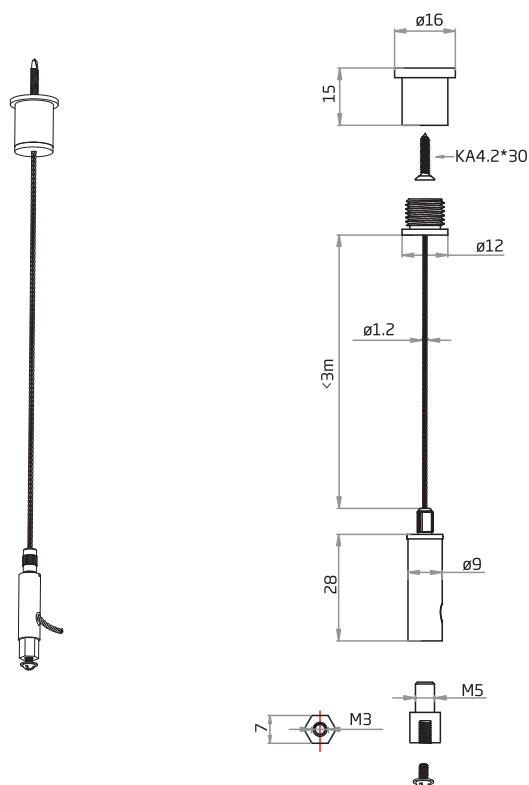
Suspended Mounting Wire

LuxeLED®



Note:

Applicable to serrated aluminium profile.
2 sets of stainless steel wires are offered to pair with 1 piece of 1m serrated aluminium profile.
3 sets of stainless steel wires are offered to pair with 1 piece of 2m serrated aluminium profile.

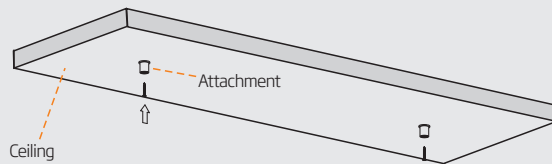


Ceiling Mounting Wire

LuxeLED®

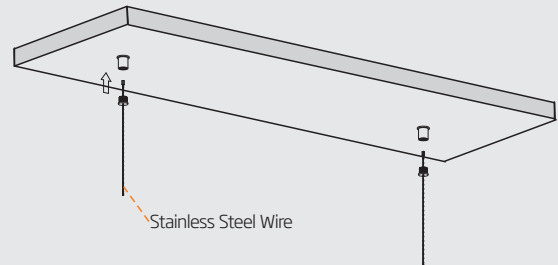
Installation Instructions

➤ Step 1



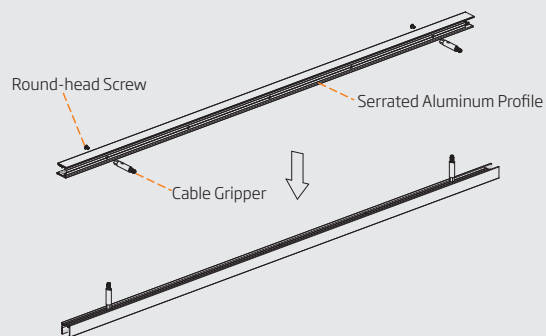
Mount the attachment of cable couplers to the ceiling with sufficient load-carrying capacity and tighten them with screws.

➤ Step 2



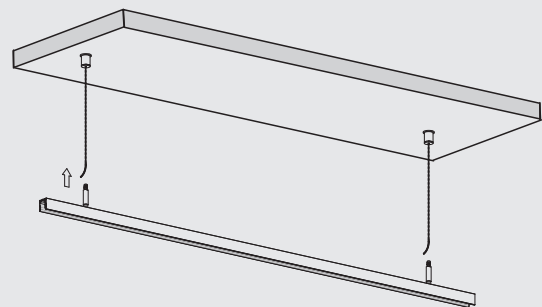
Thread the stainless steel wire through the male screw of cable couplers and then connect to the mounted attachment of cable couplers.

➤ Step 3



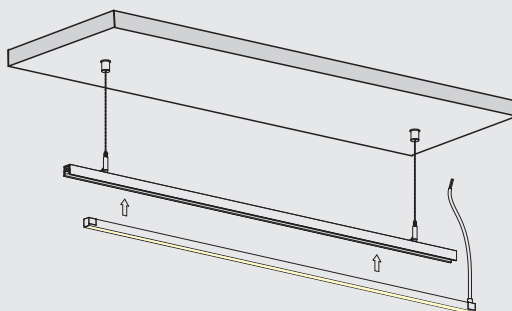
Insert the screw into the serrated aluminum profile to lock with the cable gripper sliding from the bottom slot of serrated aluminum profile.

➤ Step 4



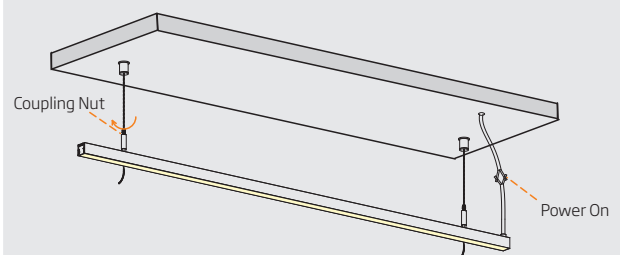
Thread the stainless steel wire through the bushing of cable gripper.

➤ Step 5



Fix the light into the aluminum profile.

➤ Step 6



Adjust the length of stainless steel wires to the desired height. Tighten the coupling nut and cut or roll up the excess stainless steel wires after the power-on test.

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