
**Mounting Profiles Specification and
Installation Instructions of
Flexneo IV Monochrome**

Serrated Aluminum Profile

LuxeLED®

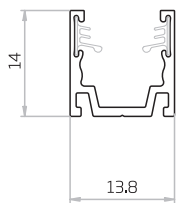


Specialized for Flexneo IV light,
Specialized for the LED Flex Linear light, it
was developed by combining the
advantages of 6063 aluminum and elastic
serrated tape. The inside elastic serrated
tape as the grabbing force to keep
continuous strong clamping force on the
light body and protect the light from the
damage caused by the large friction in the
process of installation and dismantlement.
It can stand max. 50 times of the light
weight under -20~70°C and is easy to
install and dismantle.

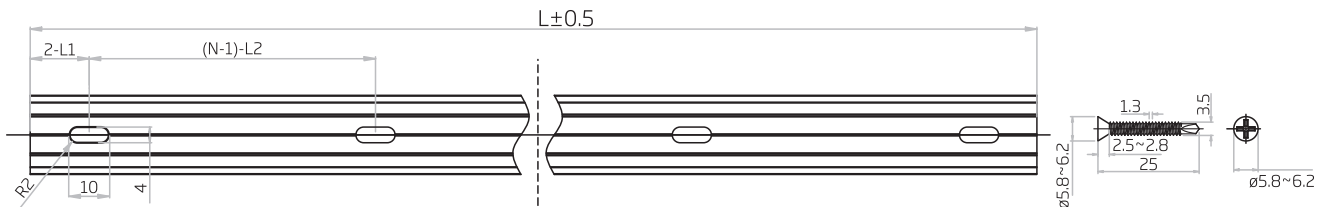
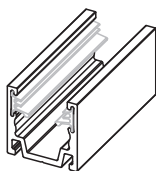
Please refer to the applicable installation
ways.

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: ±0.3mm



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
FLXIV-SA/PL-20MM	20mm/0.787in	10mm/0.39in	/	4*10mm/0.16*0.39in	1
FLXIV-SA/PL-500MM	500mm/19.68in	50mm/1.97in	200mm/7.87in	4*10mm/0.16*0.39in	3
FLXIV-SA/PL-1000MM	1000mm/39.37in	100mm/3.93in	200mm/7.87in	4*10mm/0.16*0.39in	5
FLXIV-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 Flexneo IV 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.

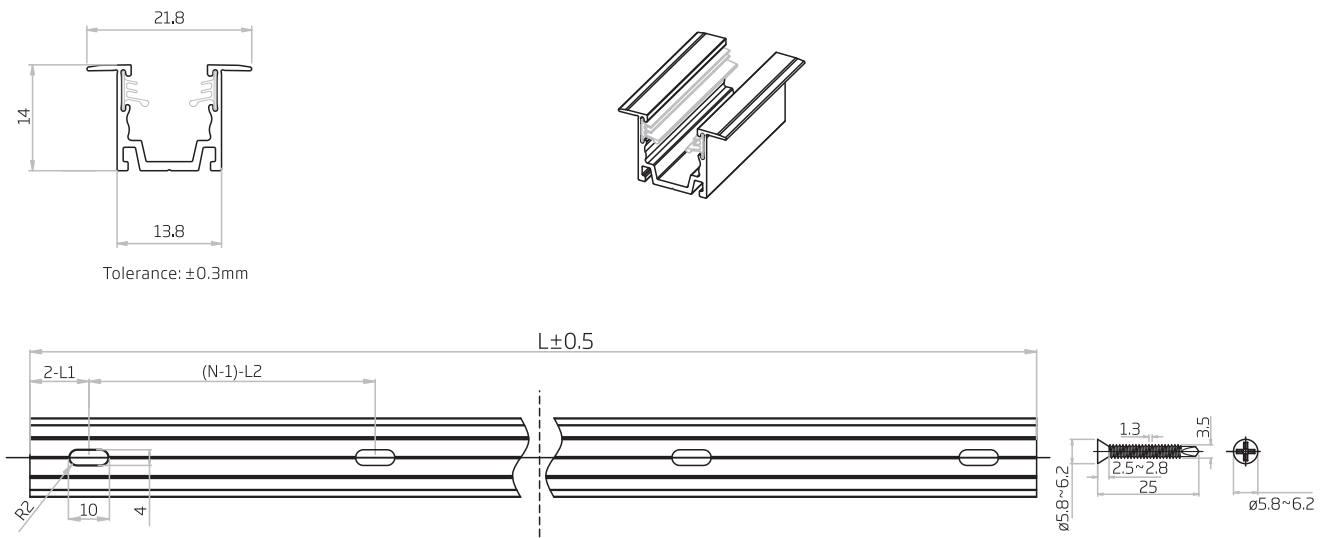
The "Flange" design is more suitable for recessed installation, better fits with the mounting groove and minimizes the operation tolerance during construction to some extent, like shielding the rough edges and the gaps of oversized groove.



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



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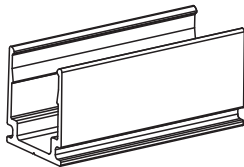
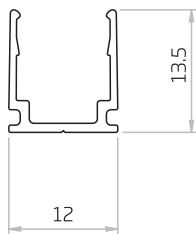
It uses high-quality 6063 aluminum with thin-wall, light-weight design to fit tightly the light body. It is deformation and rust resistant, and cost-effective.



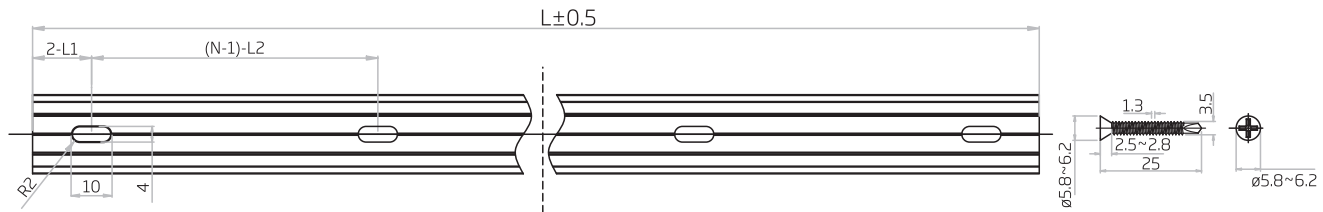
Please refer to the applicable installation ways.

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



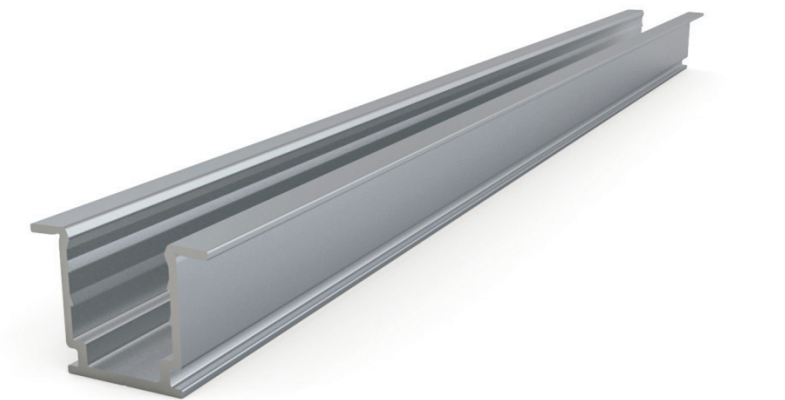
Tolerance: ±0.3mm



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Item Code	Standard Length	L1	L2	Slotted Hole	Hole Number
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Flange Aluminum Profile



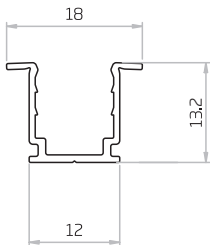
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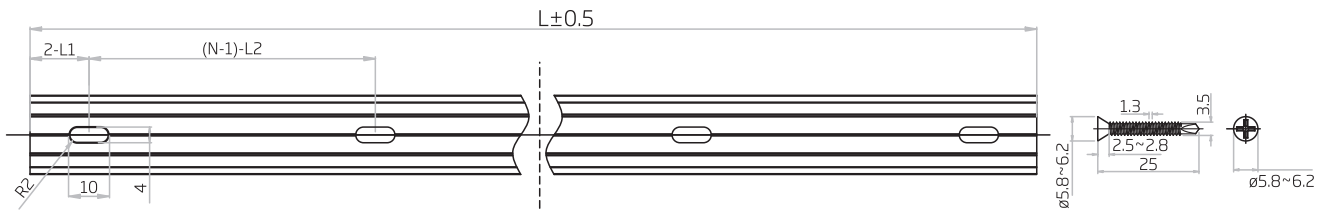
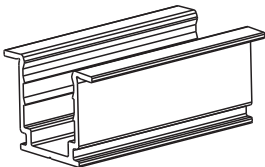
Please refer to the applicable installation ways.

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Mounting profile	2	Clamping force	LuxeLED-defined

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



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FLXIV-FA/PL-2000MM	2000mm/78.74in	100mm/3.93in	200mm/7.87in	4*10mm/0.16*0.39in	10

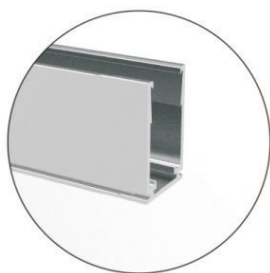
Profile Processing

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.

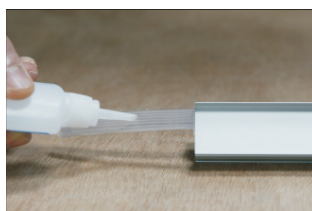
Serrate Tape



Profile Cutting



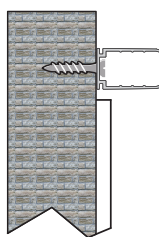
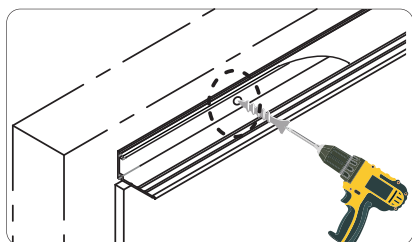
Make sure the cross-section of profile is smooth without any burrs when cutting, otherwise the light housing will be impaled and cause water ingress.



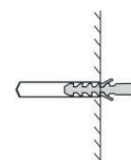
Round Head

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.

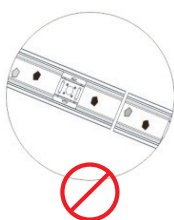
Profile Installation



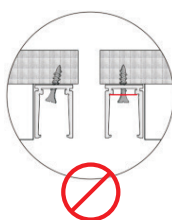
Install the screw into position and ensure the screw head is in line with or lower than the base of aluminum profile.



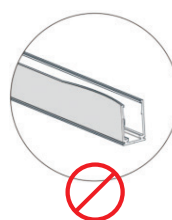
Place the rubber expansion bolt to assist with the screw fixation if the mounting surface is rigid.



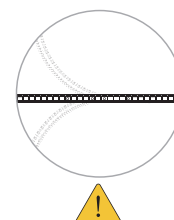
Make sure no debris in the profile before installation to avoid the light housing being impaled and cause water ingress.



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.

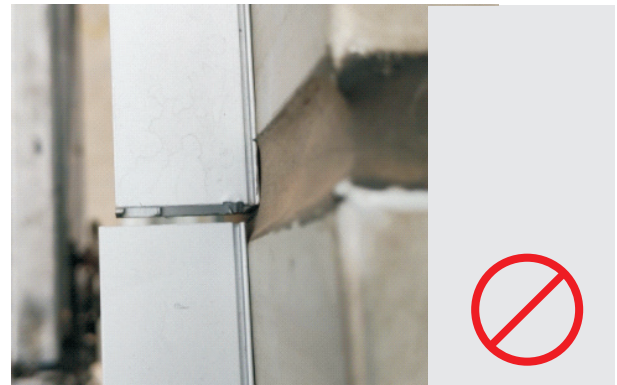
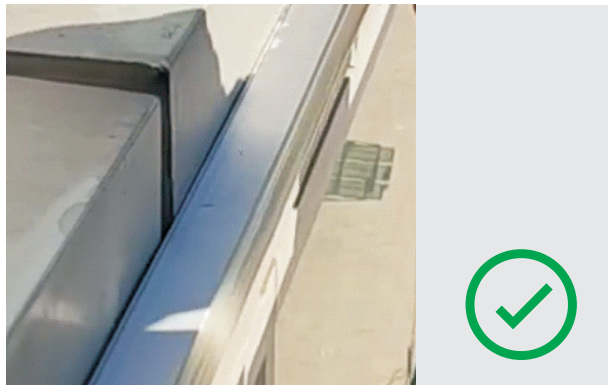


3. For the curve shaping of light, make sure to leave enough space to separate profiles in between or use the bendable profile instead.

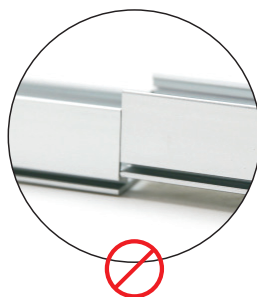
4. Splice Structure on Mounting Surface

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.

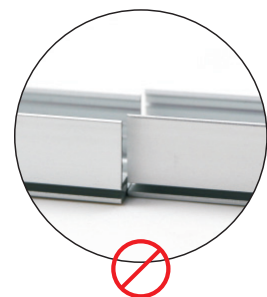
When the profile jointing lies where the mounting surface splices, contraction and expansion of the mounting surface in the long term will cause the misalignment of profiles and lights, and lead to the damage of inside PCB.



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



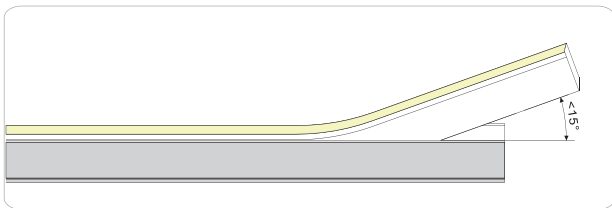
It's not recommended to install the light repeatedly, otherwise the light inside might be damaged.



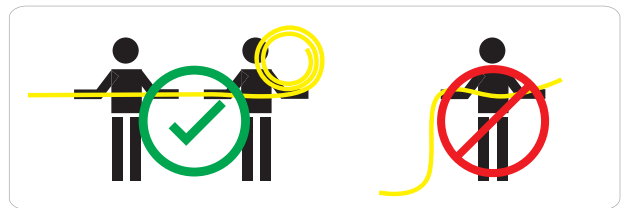
Make sure the light is fitted in vertically.



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.

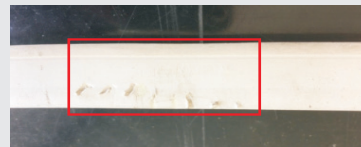
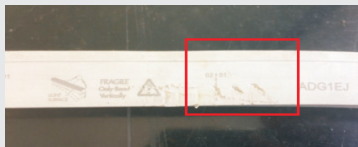


Make sure the angle between the light and profile is not bigger than 15°, otherwise inside PCB might be damaged.

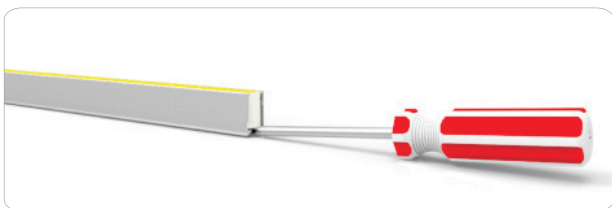


When light length > 2m, make sure somebody helps to lift the light, in case the heavy weight of light itself generates too small bending angle or twisting, which may damage inside PCB.

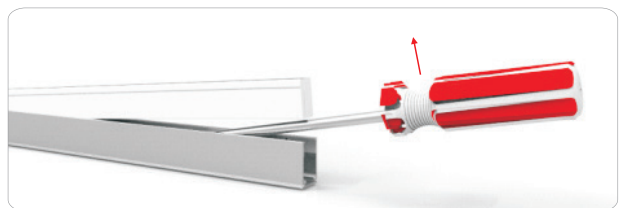
Make sure the light body is not scratched during installation, otherwise the light housing will be impaled and cause water ingress.



Light Uninstallation



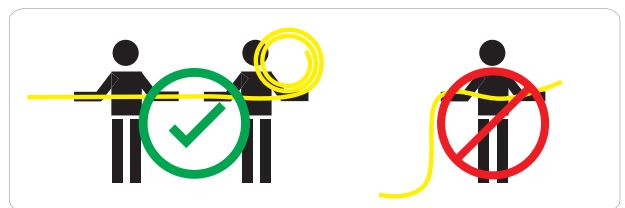
Prepare a screwdriver, and put the screwdriver at the bottom of light.



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



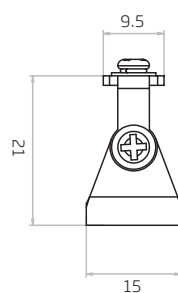
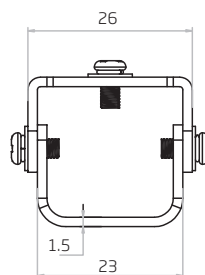
Once the end of light is out, hold both sides of light by hand and pull it out along the profile slowly and orderly. Make sure the angle between the light and profile is not bigger than 15°, otherwise inside PCB might be damaged.



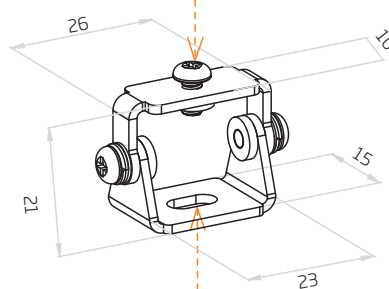
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Pivot Mounting Bracket

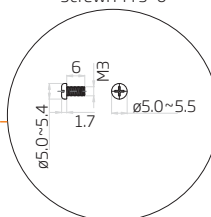
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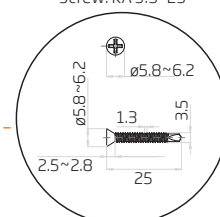
Item Code
FLIVM-YB-PM/B



Screw: PM 3*6



Screw: KA 3.5*25



Note:

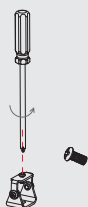
Applicable to all types of mounting profiles.

Pivot Mounting Bracket

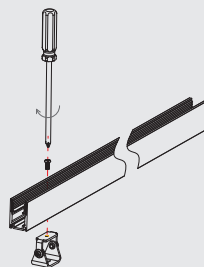
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Installation Instructions

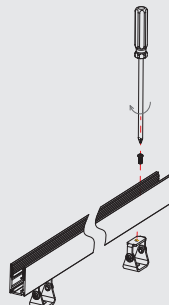
➤ Step 1



➤ Step 2



➤ Step 3



Step 1:

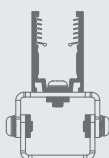
Remove the upper screw from pivot mounting bracket.

Step 2:

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

Step 3:

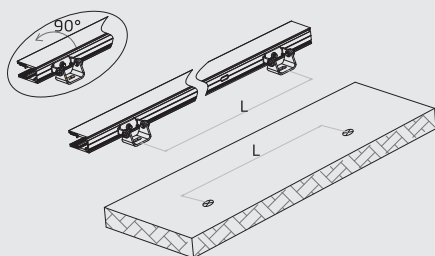
Repeat step 1 & step 2 for the remaining brackets and secure at least 2 locking points for each mounting profile, and the equal interval is more recommended.



Warning:

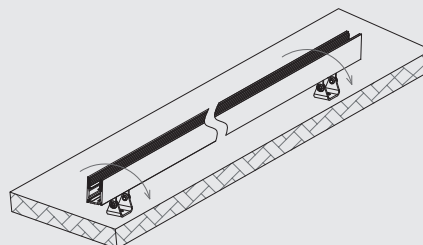
Keep pivot mounting bracket and mounting profile parallel from the side view.

➤ Step 4



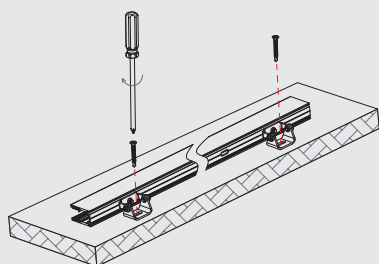
Rotate pivot mounting bracket till the showing up of the unfixed screw hole to facilitate the installation with mounting surface as per the pre-marked hole.

➤ Step 6



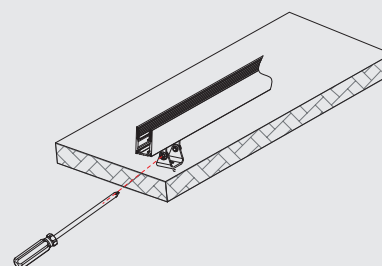
Fix pivot mounting bracket to mounting surface by KA3.5*25 screw.

➤ Step 5



Adjust the angle of mounting profile to the one required.

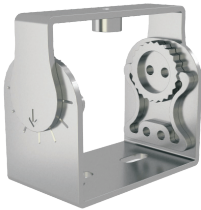
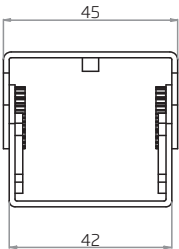
➤ Step 7



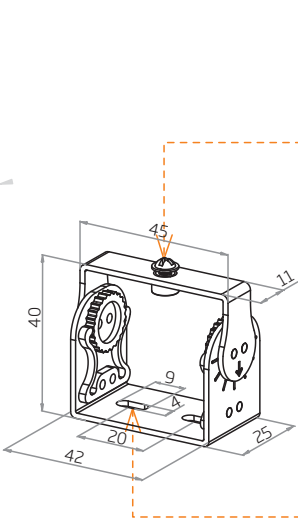
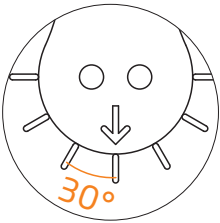
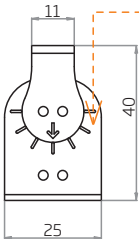
Tighten the side screws of pivot mounting bracket to avoid loosened locking point.

Rotary locking Bracket

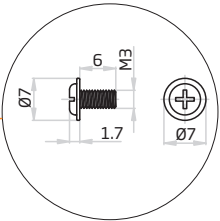
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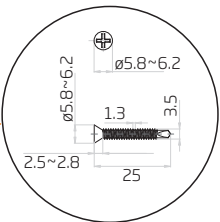
Item Code
FLIVM-YB-RL/B



Screw: PWM3*6 1 PC



Screw: KA 3.5*25 2PCS



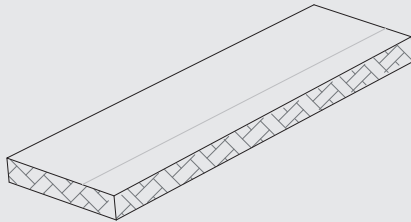
Note:
Applicable to all types of mounting profiles.

Rotary Locking Bracket

LuxeLED®

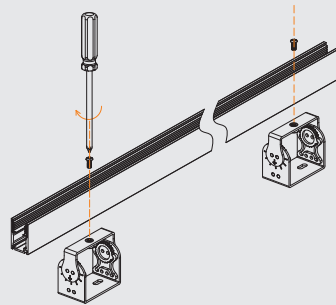
Installation Instructions

➤ Step 1



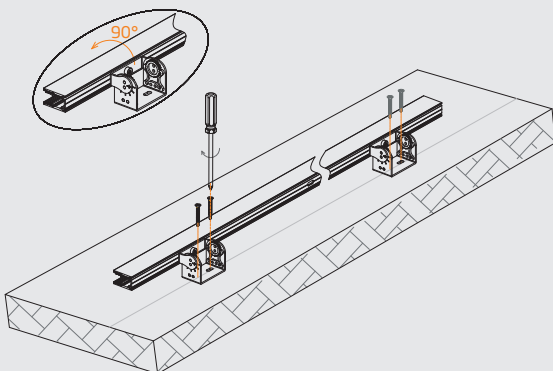
Mark the installation position on the mounting surface.

➤ Step 2



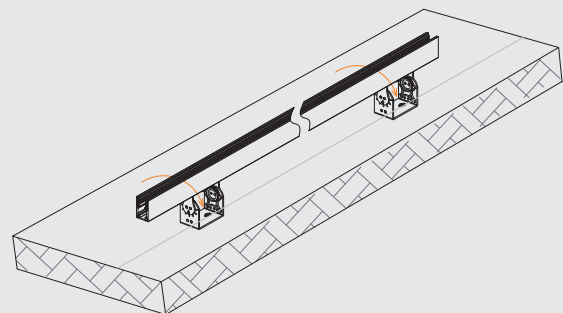
Fix the mounting profile to the rotary locking bracket by screws.

➤ Step 3



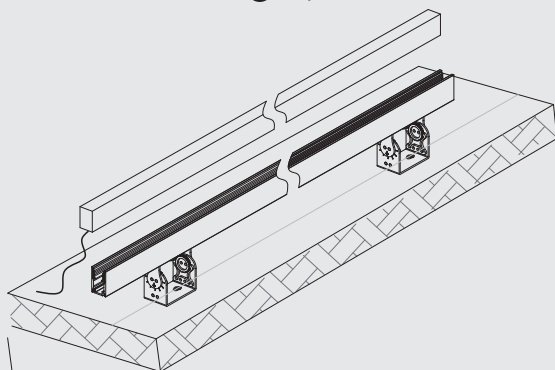
Lay the mounting profile aside and fix the rotary locking bracket to the mounting surface by screws along the marking line.

➤ Step 4



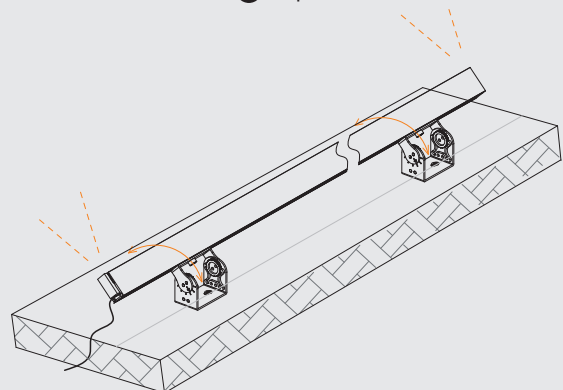
Turn back the mounting profile.
Please skip to step 7 for length extension (one piece of light crossing multiple pieces of mounting profiles).

➤ Step 5



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

➤ Step 6



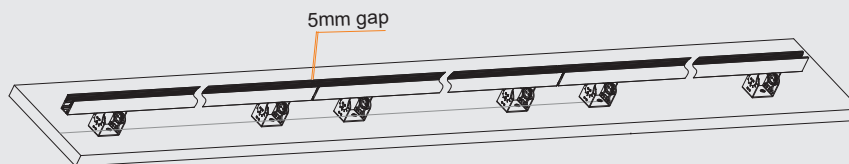
Power on the light and rotate the mounting profile to the desired lighting angle.

Rotary Locking Bracket

LuxeLED®

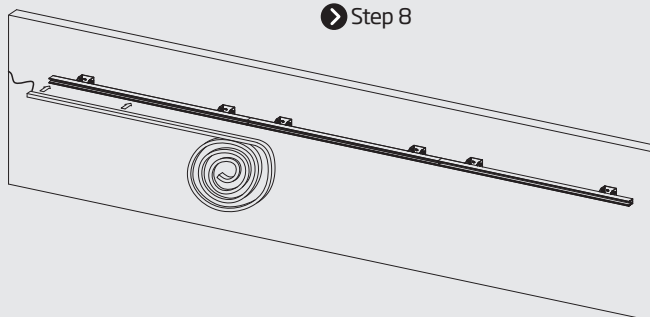
For length extension (one piece of light crossing multiple pieces of mounting profiles)

➤ Step 7



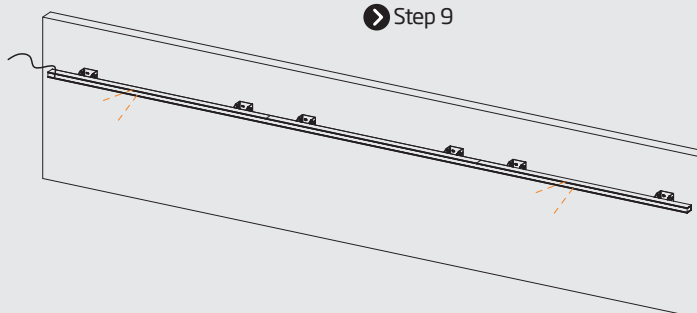
Please reserve 5mm gap between mounting profiles in case of contraction and expansion.

➤ Step 8



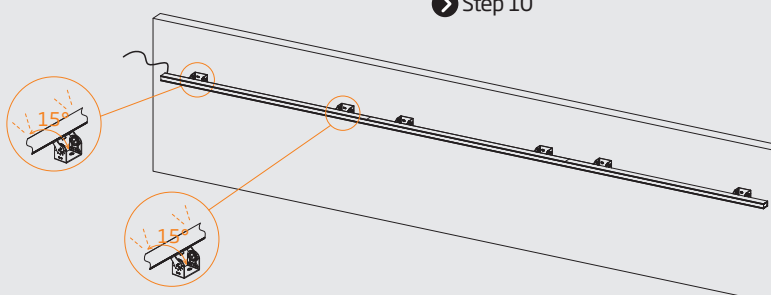
Fit the light into the first piece of mounting profile and keep the remaining lights coiled. Next repeat step 6 to adjust the lighting angle.

➤ Step 9



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

➤ Step 10



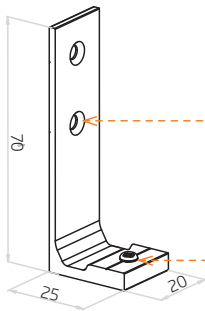
If you need further adjustment after installation, please fine tune rotary locking bracket 15 degree each time one by one in case of twisting on lights.

Side Mounting Bracket

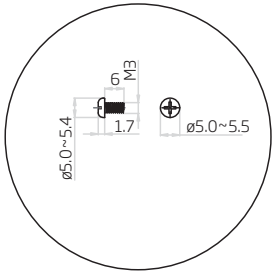
LuxeLED®



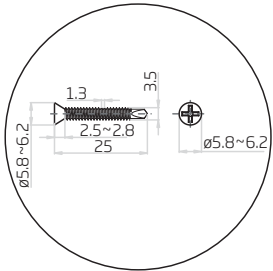
Item Code
FLIVM-YB-SM/B



Screw PM 3*6 1pc



Screw KA3.5*25 2pcs



Note:

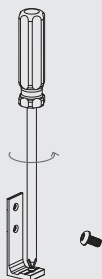
Applicable to all types of mounting profiles.

Side Mounting Bracket

LuxeLED®

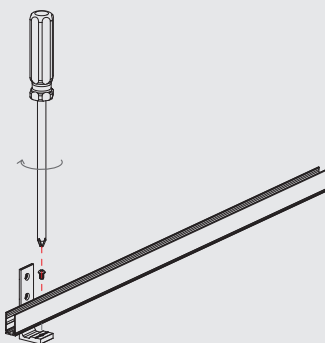
Installation Instructions

➤ Step 1



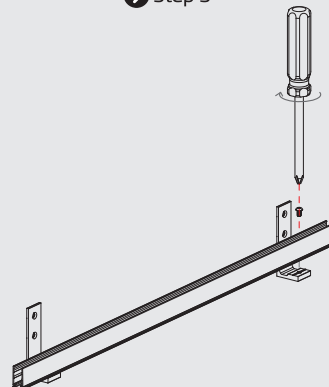
Remove the PM3*6 screw of side mounting bracket.

➤ Step 2



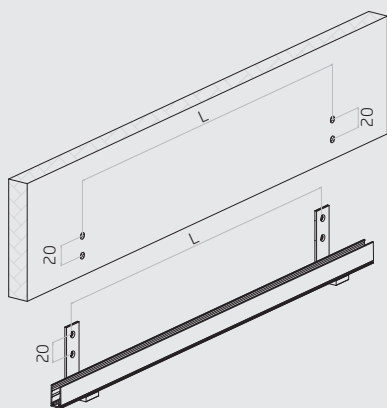
Fix side mounting bracket and mounting profile tightly by the screw.

➤ Step 3



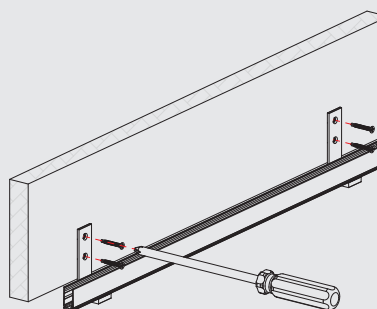
Repeat step 1 & step 2 for the remaining brackets and secure at least 2 locking points for each mounting profile, and the equal interval is more recommended.

➤ Step 4



Mark the pilot holes on mounting surface accordingly.

➤ Step 5



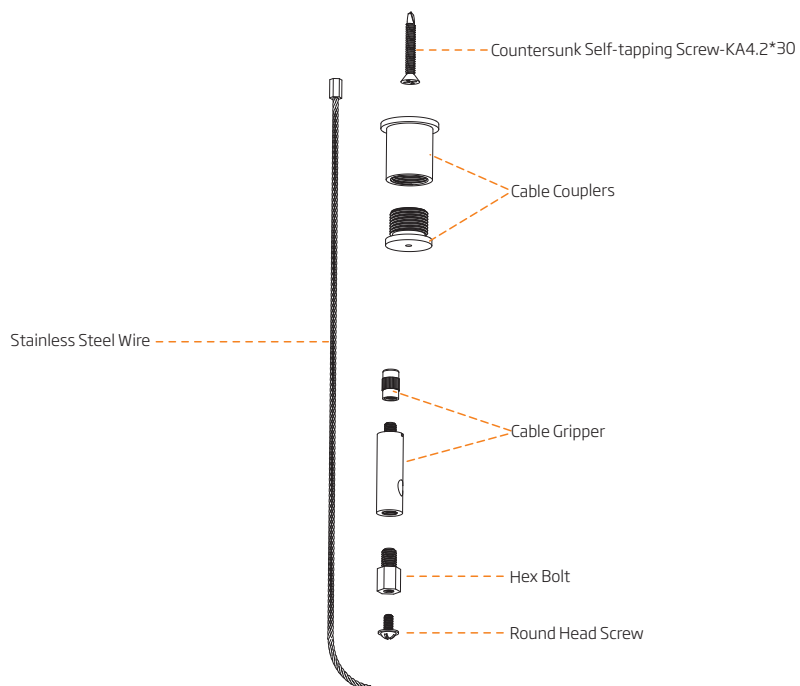
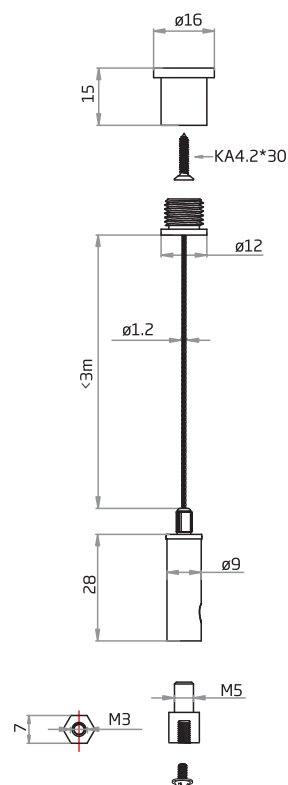
Fix the side mounting bracket by KA3.5*25 screws.

Suspended Mounting Wire

LuxeLED®



Item Code
FLIVM-YB-SM/W

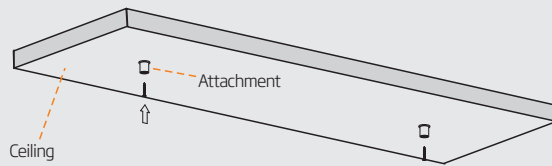


Note:

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.

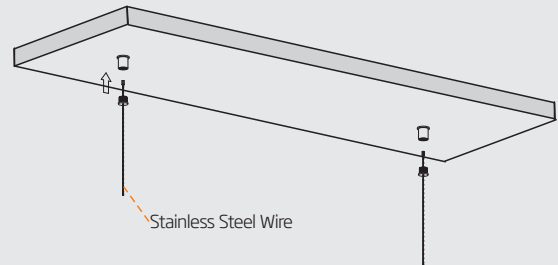
Installation Instructions

➤ Step 1



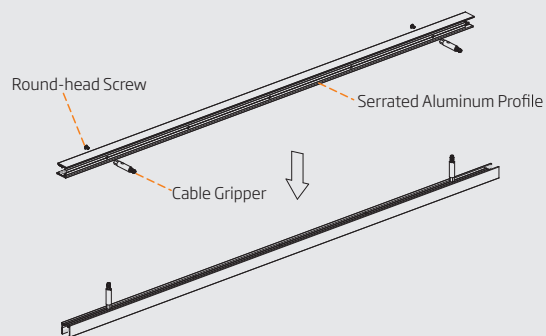
Mount the attachment of cable couplers to the ceiling with sufficient load-carrying capacity and tighten them with screws.

➤ Step 2



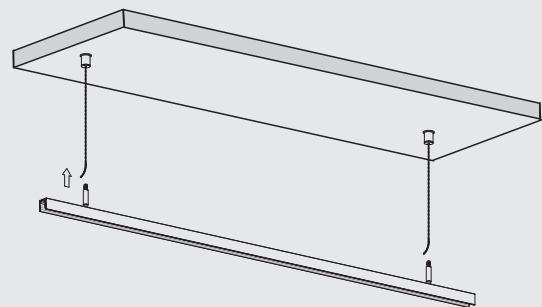
Thread the stainless steel wire through the male screw of cable couplers and then connect to the mounted attachment of cable couplers.

➤ Step 3



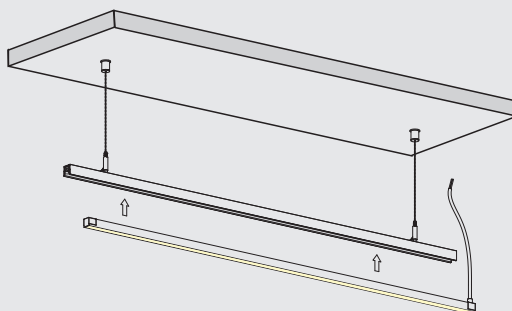
Insert the screw into the serrated aluminum profile to lock with the cable gripper sliding from the bottom slot of serrated aluminum profile.

➤ Step 4



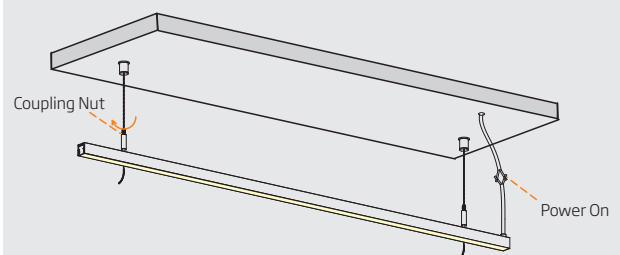
Thread the stainless steel wire through the bushing of cable gripper.

➤ 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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