LuxeLED®

Mounting Profiles Specification and Installation Instructions of Flexneo II

Aluminum Profile

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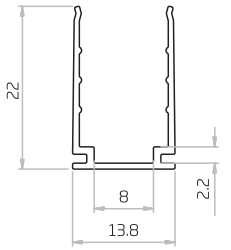
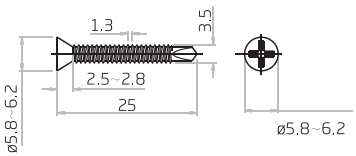
It uses high-quality 6063 aluminum with thin-wall, light- weight design to fit tightly the light body. It is deformation and rust resistant, and cost-effective.

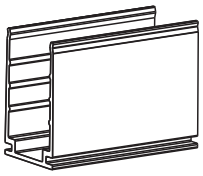
Please refer to the applicable installation ways.

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

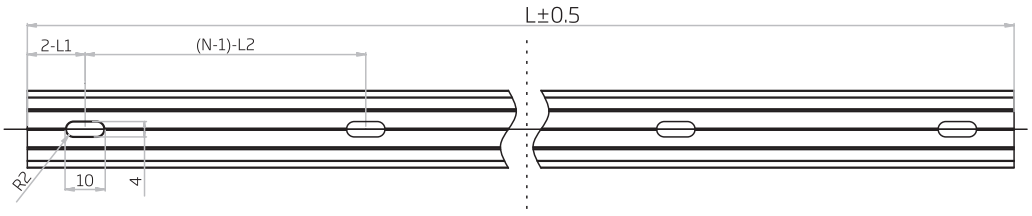
Dimension: mm







Tolerance: ±0.2mm



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

Standard Length	L1	L2	Slotted Hole	Hole Number
35mm/1.38in	17.5mm/0.69in	/	4*10mm/0.16*0.39in	1
500mm/19.68in	50mm/1.97in	200mm/7.87in	4*10mm/0.16*0.39in	3
1000mm/39.37in	100mm/3.93in	200mm/7.87in	4*10mm/0.16*0.39in	5
2000mm/78.74in	100mm/3.93in	200mm/7.87in	4*10mm/0.16*0.39in	10

Serrated Aluminum Profile

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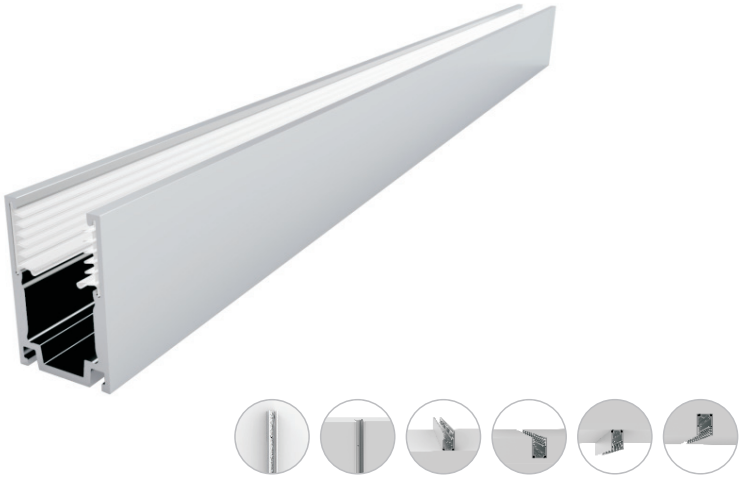
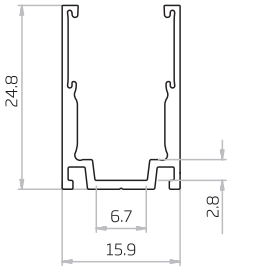


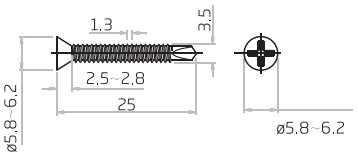
Specialized for the LED Flex Linear light, it was developed by combining the advantages of 6063 aluminum and elastic serrated tape. The inside elastic serrated tape as the grabbing force to keep continuous strong clamping force on the light body and protect the light from the damage caused by the large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

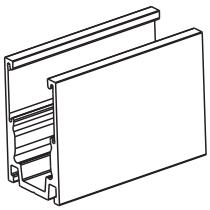
Please refer to the applicable installation ways.

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

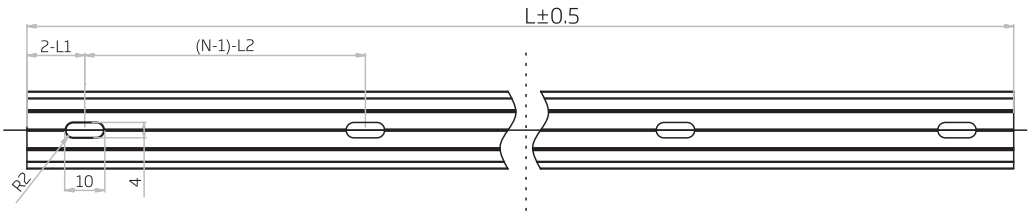
Dimension: mm







Tolerance: ±0.2mm



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

Standard Length	L1	L2	Slotted Hole	Hole Number
20mm/0.787in	10mm/0.39in	/	4*10mm/0.16*0.39in	1
500mm/19.68in	50mm/1.97in	200mm/7.87in	4*10mm/0.16*0.39in	3
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Flange Aluminum Profile

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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. 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.

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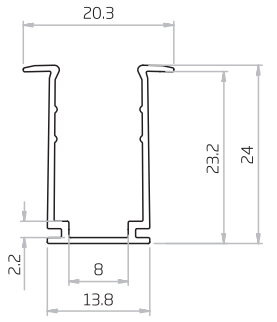
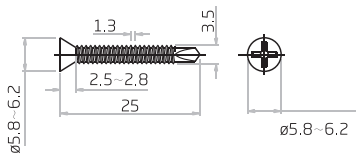
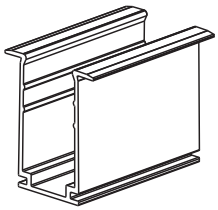
Metal Parts	1	Weather Resistance-Salt Spray	IEC 68-2-11
Mounting profile	2	Clamping force	LuxeLED-defined

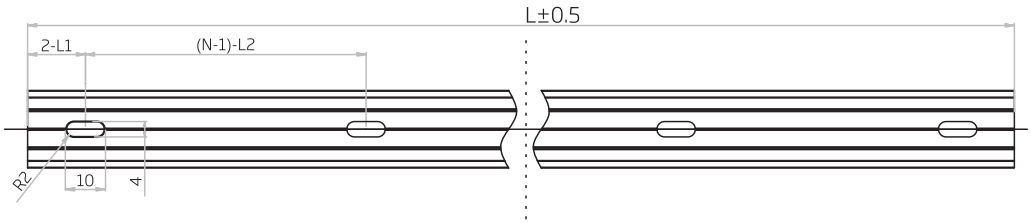
Dimension: mm







Tolerance: ±0.2mm



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Flange Serrated Aluminum Profile

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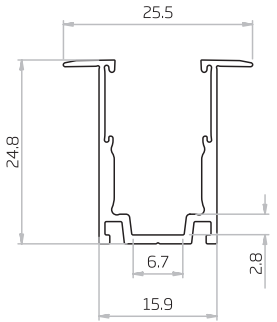
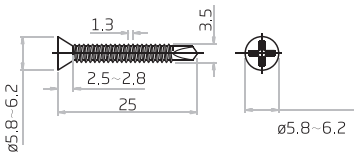
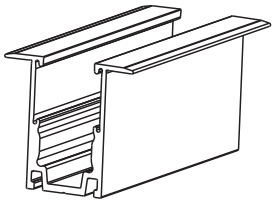
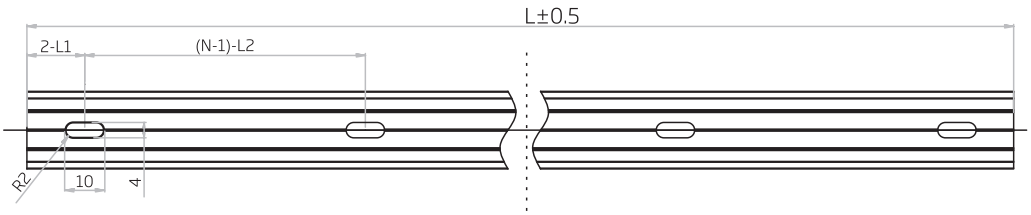






Tolerance: ±0.2mm



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Operating Instruction for Profiles

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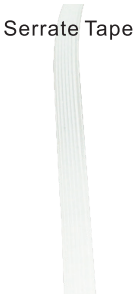
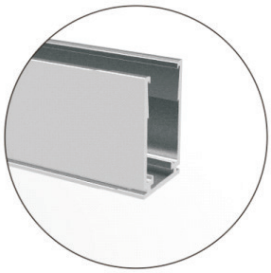
Profile Processing

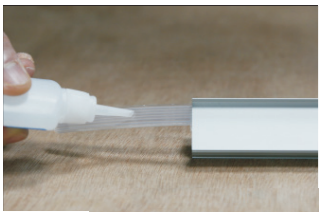
1. It's not recommended to process the profile without any protection by finishing or coating, etc.
2. If any similar demands, please keep the profile clean after processing.
3. For the profile involved the serrated tape, please take its serrated tape out to avoid being deformed and useless affected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

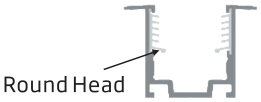


Profile Cutting



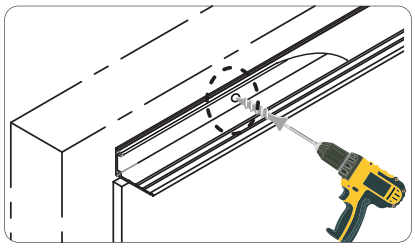
Make sure the cross-section of profile is smooth without any burrs when cutting, otherwise the light housing will be impaled and cause water ingression.

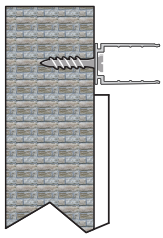




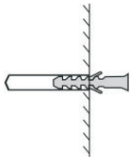
For the profiles involved serrated tape, in case of any drop of serrated tape after cutting, please insert and fix it to the profile by a few adhesive glues on its backside, 5~8mm diameter of touching area is enough. Make sure its round head on the edge is downward when putting back.

Profile Installation



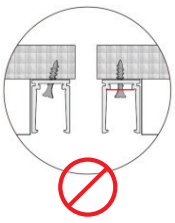


Install the screw into position and ensure the screw head is in line with or lower than the base of aluminum profile.

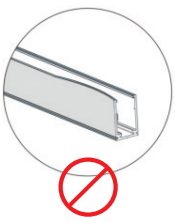


Place the rubber expansion bolt to assist with the screw fixation if the mounting surface is rigid.

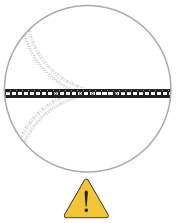
Make sure no debris in the profile before installation to avoid the light housing being impaled and cause water ingression.



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



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

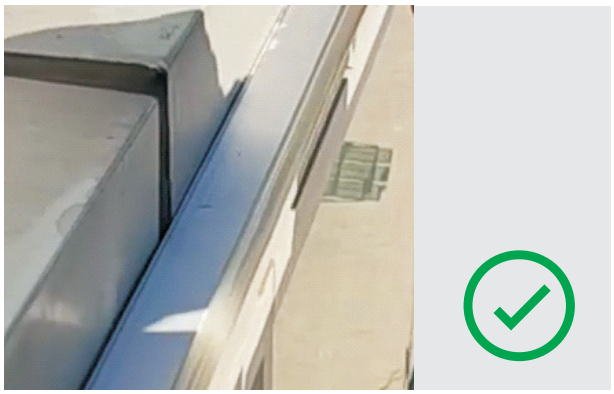
1. Please reserve at least 5mm for profile jointing to enable enough space for contraction and expansion.

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

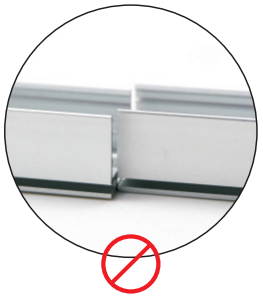
In the case of an outdoor mounting surface with the splice structure, please make sure the mounting profile goes across the gap or separate the light and profile as per the splice structure.



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

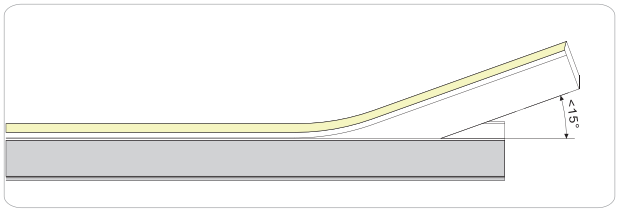
Above wrong misalignments will make the light improperly bent, and lead to the wrinkle or fracture on PCB.

Light Installation

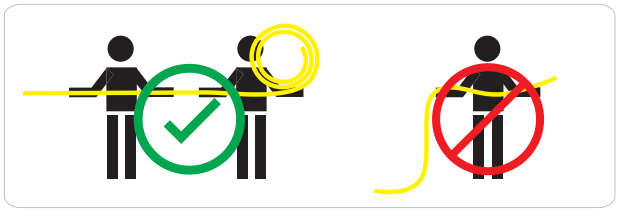
⚠ It's not recommended to install the light repeatedly, otherwise the light inside might be damaged.

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.



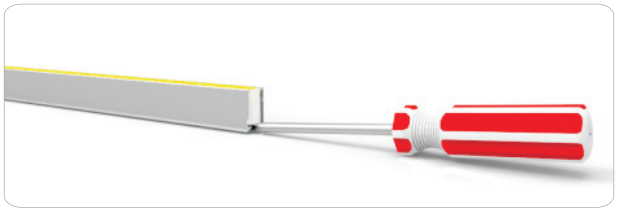
Make sure the angle between the light and profile is not bigger than 15°, otherwise inside PCB might be damaged.



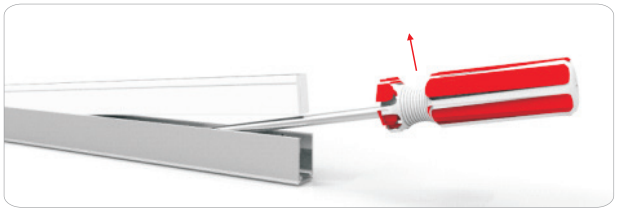
When light length > 2m, make sure somebody helps to lift the light, in case the heavy weight of light itself generates too small bending angle or twisting, which may damage inside PCB.

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

Light Uninstallation

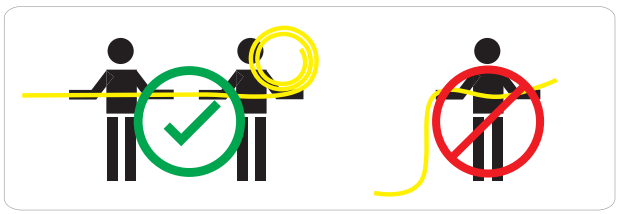


Prepare a screwdriver, and put the screwdriver at the bottom of light.



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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Bendable Serrated Aluminum Profile

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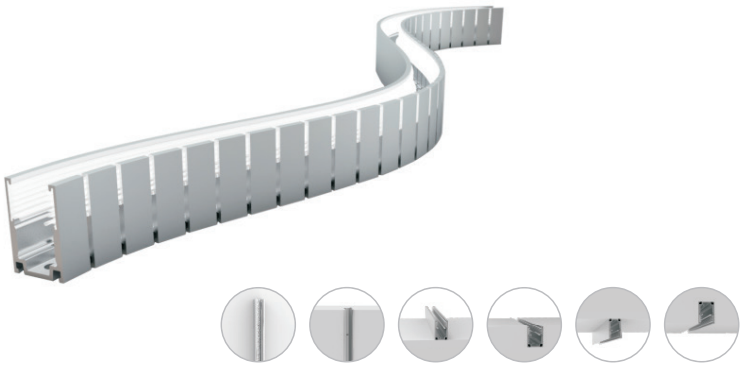
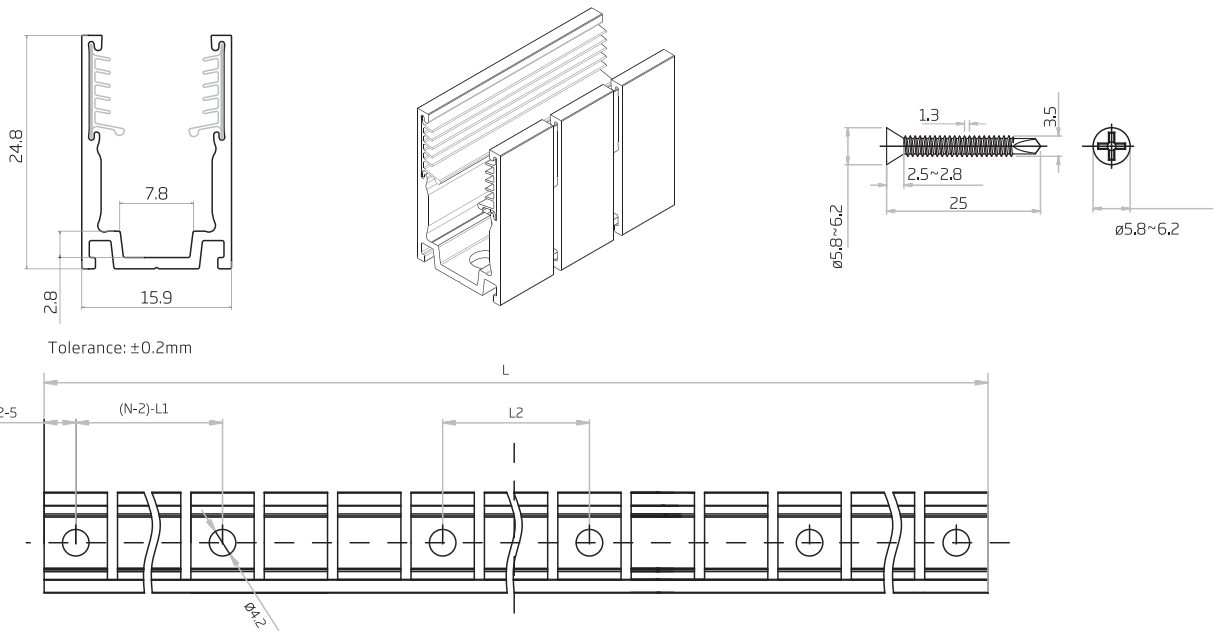


It is an expanded design of the serrated aluminum profile, and caters for the continuously streamlined aesthetics of curve shape. The secondary precision cutting process, not only maintains the advantage of clamping force, but also enables the two-way horizontal bending directions with super shape memory.

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

Dimension: mm



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

Standard Length	L1	L2	Screw Hole	Hole Number
500mm/19.68in	116.5mm/4.59in	23.3mm/0.92in	ø4.2mm/0.17in	6
1000mm/39.37in	116.5mm/4.59in	58.2mm/2.29in	ø4.2mm/0.17in	10

Installation Instructions

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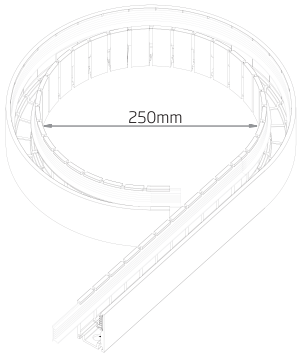
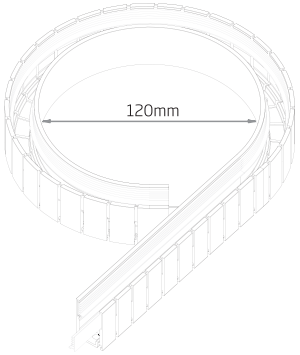
Friendly Reminder: please read instructions carefully before operation.

Bending Diameter

Min. Bending Diameter (Toothed Side inwards)

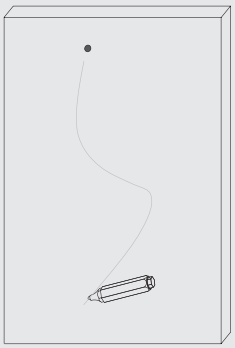


Min. Bending Diameter (Toothed Side outwards)



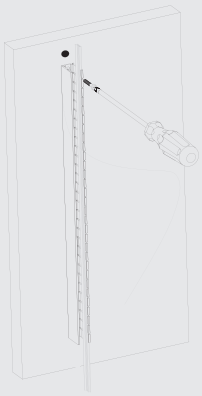
Installation

Step 1



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

Step 2

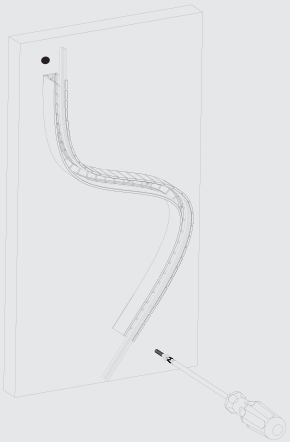


Get the front connector outside of profilel and keep at least 10mm more apart. Fix the screw starting from the power input end.

Step 3

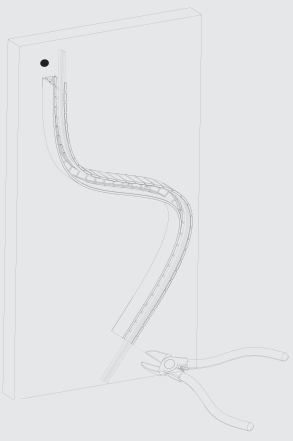
Use cylinder or disc-like object you have to assist with shaping.

Step 4



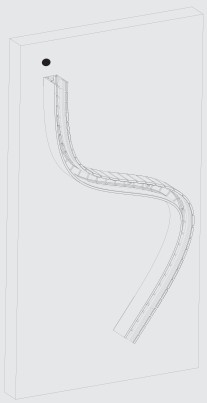
Fix the rest in sequence along with the marks.

Step 5



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

Step 6



Finish and fix the light in.

Flexneo II Thickened Plastic Profile

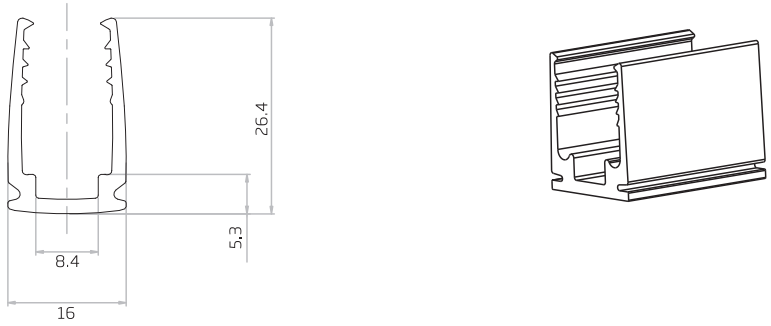
LuxeLED®

It uses thickened PC profile to 3mm thickness, specialized for underwater application up to 2m depth, and has excellent properties in rust, corrosion and fracture resistance.

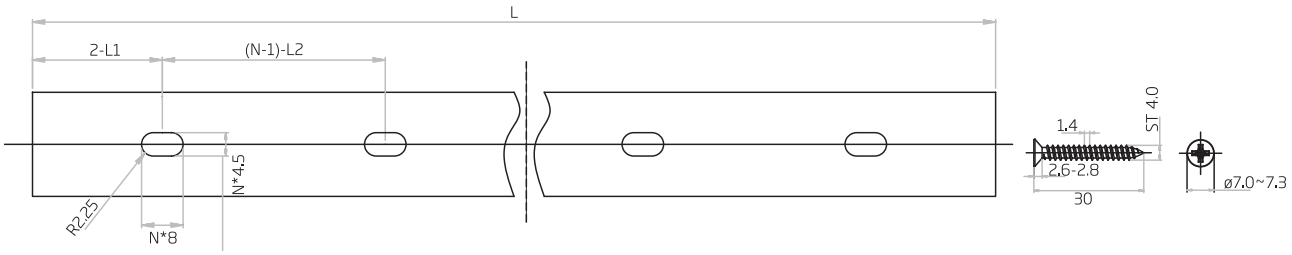
Please refer to the applicable installation ways.

Test Object	No.	Experiment Item	Standard
Mounting profile	1	Clamping force	LuxeLED-defined

Dimension: mm



Tolerance: ±0.3mm

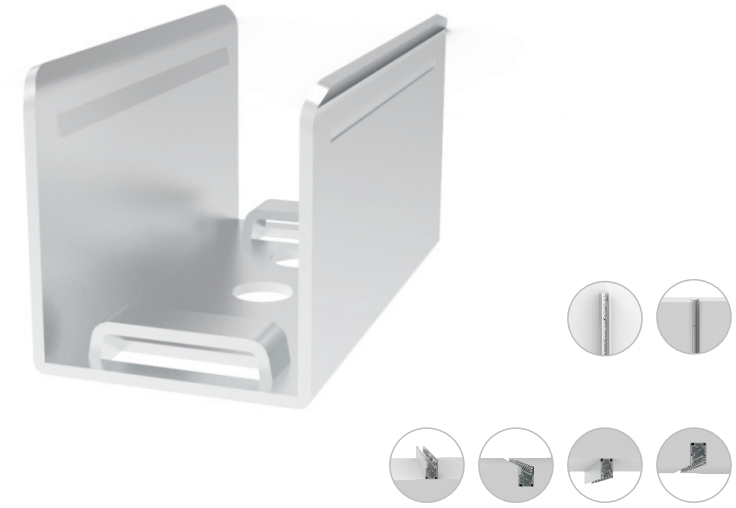


Note:
1. 2-L1 refers to two of symmetric L1 in each piece of profile.
2. (N-1)-L2 refers to (N minus one) of symmetric L2 in each piece of profile.
"N" hereby stands for its corresponding "Hole Number" in the below table

Standard Length	L1	L2	Slotted Hole	Hole Number
35mm/1.38in	17.5mm/0.69in	/	4.5*8mm/0.18*0.31in	1
500mm/19.68in	50mm/1.97in	200mm/7.87in	4.5*8mm/0.18*0.31in	3
1000mm/39.37in	100mm/3.93in	200mm/7.87in	4.5*8mm/0.18*0.31in	5
2000mm/78.74in	100mm/3.93in	200mm/7.87in	4.5*8mm/0.18*0.31in	10

Flexneo II Stainless Steel Profile

LuxeLED®

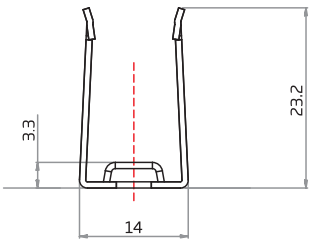


It uses grade 316 stainless steel with excellent property of deformation and rust resistance. The material makes it suitable for humid coastal surroundings and weak acid-base industrial environments that other mounting profiles can't accommodate. The structural design and material characteristics collectively ensure a tight clamping force. It's very convenient and reliable even for suspended installation in the curve shape.

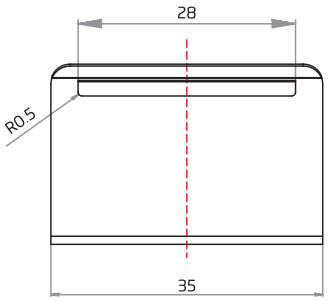
Please refer to the applicable installation ways.

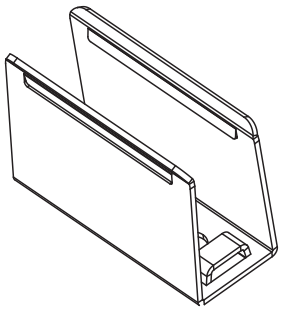
Test Object	No.	Experiment Item	Standard
Metal Parts	1	Weather Resistance-Salt Spray	IEC 68-2-11
Mounting profile	2	Clamping force	LuxeLED-defined

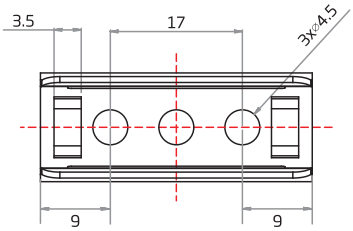
Dimension: mm

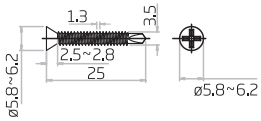


Tolerance: ±0.2mm









Standard Length	Screw Hole	Hole Number
35mm/1.378in	ø4.5mm/0.18in	3

Flexneo II Surface-mounted Raceway Aluminium Profile

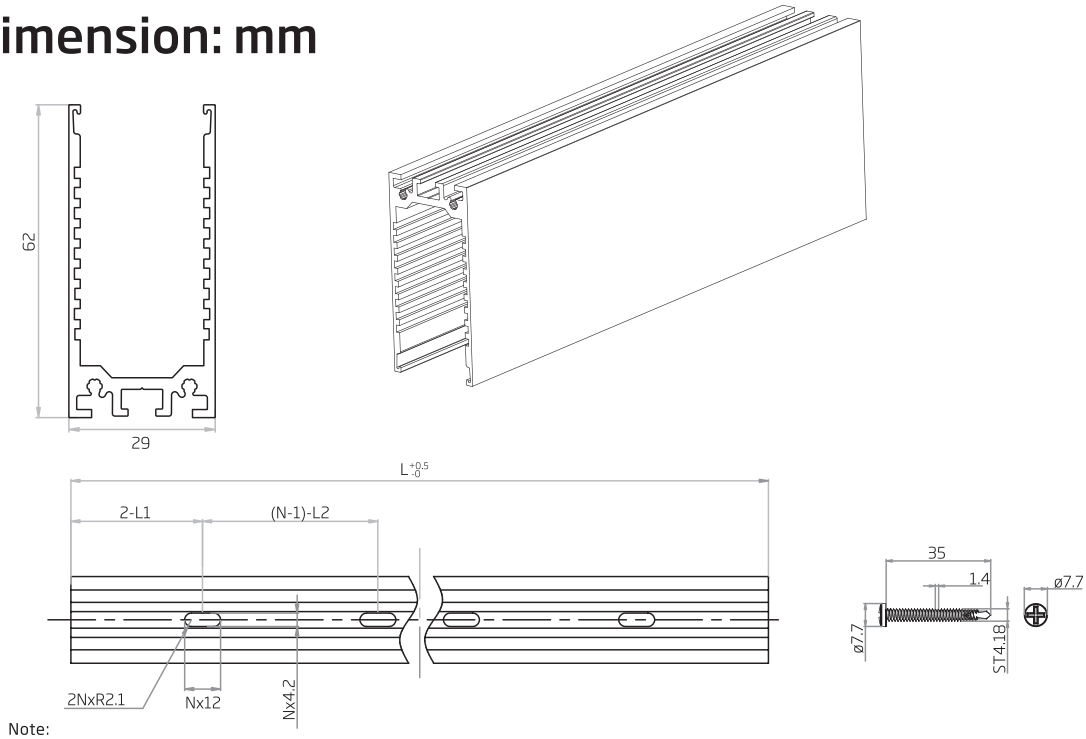
LuxeLED®

It is an expanded design of the serrated aluminum profile featuring hidden cable upon the advantage of 6063 aluminum profile.
The raceway space is up to 570mm², enough to conceal injection-moulded connector with bottom feed and the general male/female connectors.
It is superb for the facade where tidiness is required and the scenarios that lack of space for wiring.

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



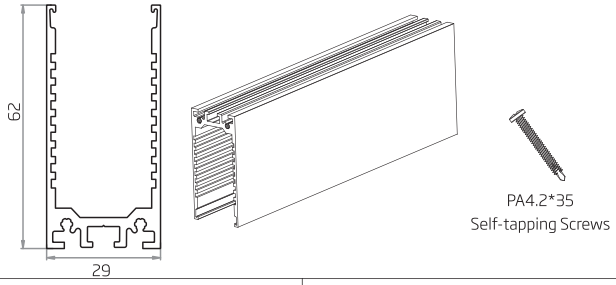
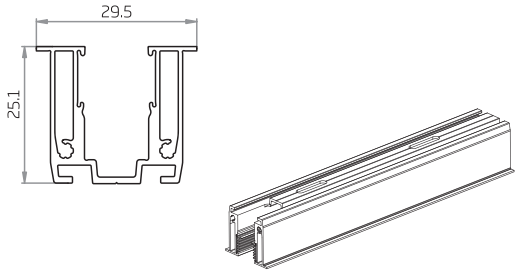
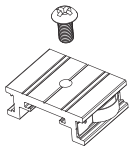
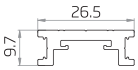
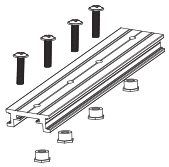
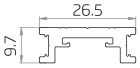
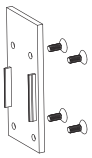
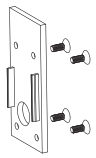
Note:
1. 2-L1 refers to two of symmetric L1 in each piece of profile.
2. (N-1)-L2 refers to (N minus one) of symmetric L2 in each piece of profile.
N hereby stands for its corresponding Hole Number in the below table

Standard Length	L1	L2	Slotted Hole	Hole Number
500mm/19.68in	50mm/1.97in	200mm/7.87in	4.5*12mm/0.18*0.47in	3
1000mm/39.37in	100mm/3.94in	200mm/7.87in	4.5*12mm/0.18*0.47in	5
2000mm/78.74in	100mm/3.94in	200mm/7.87in	4.5*12mm/0.18*0.47in	10

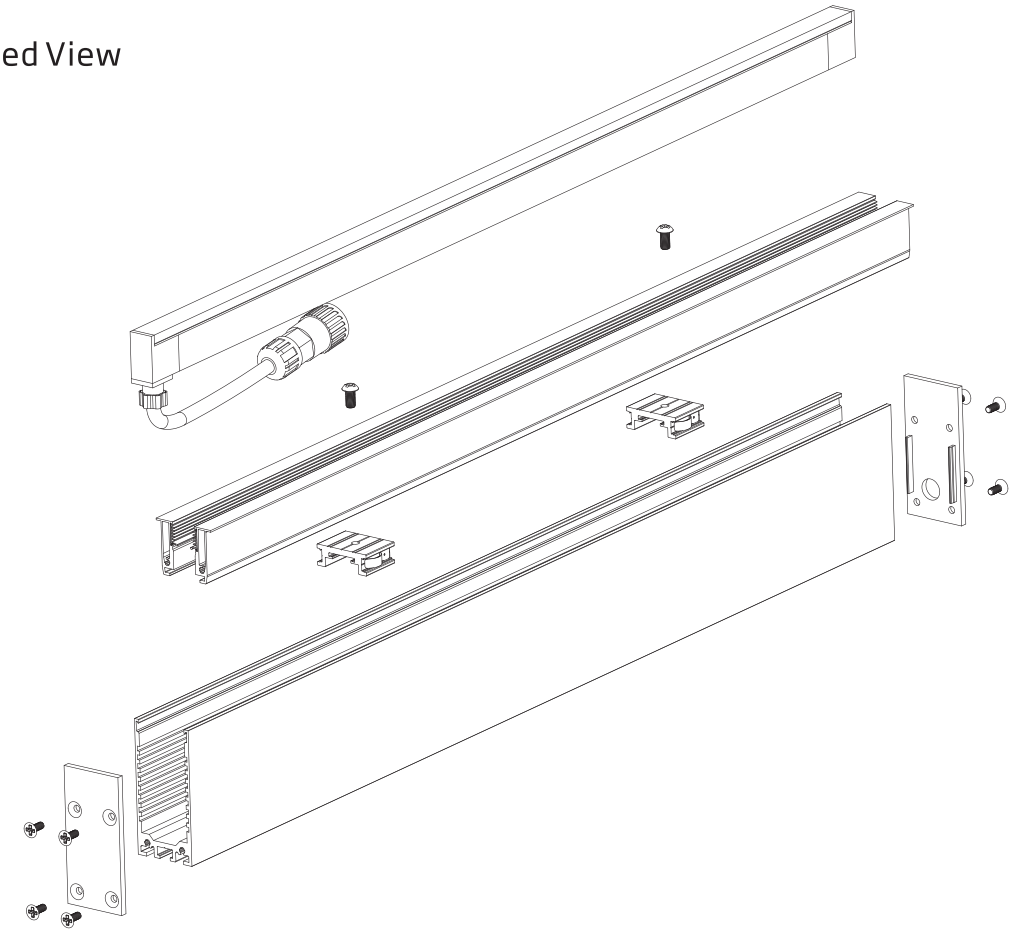
Flexneo II Surface-mounted Raceway Aluminium Profile

LuxeLED®

Main Components

Outer Aluminum Profile		Inner Aluminum Profile	
			
Retaining Bracket for Inner and Outer Profiles	Joining Bracket for Outer Profiles	End Cover	End Cover with Cable Hole
 PM4*6 Screws 	 PMW4*18 Screws, BSOS-M4*5 Self-clinching Standoffs 	 KM3*8 Screws	 KM3*8 Screws

Exploded View

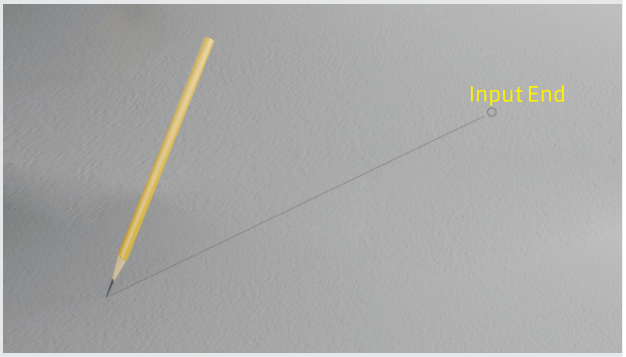


Installation Instructions

LuxeLED®

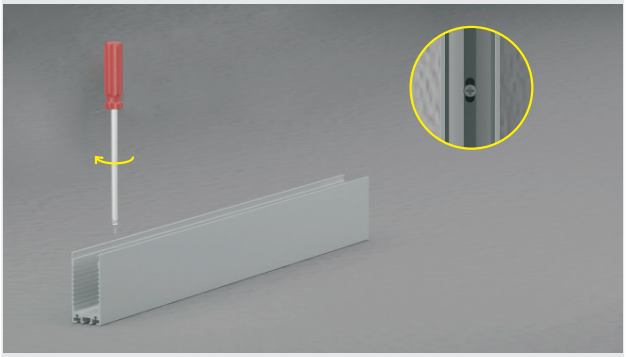
Friendly Reminder: please read instructions carefully before operation.

Step 1



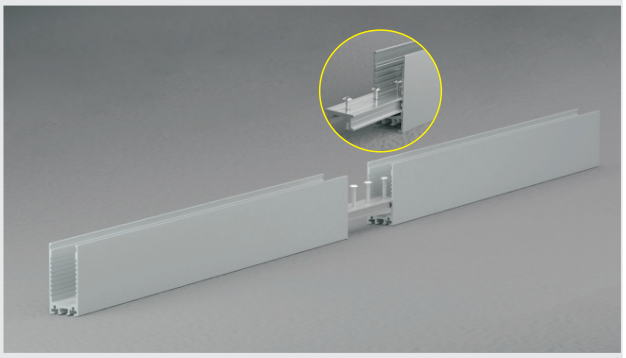
Mark the mounting position and input end.

Step 2



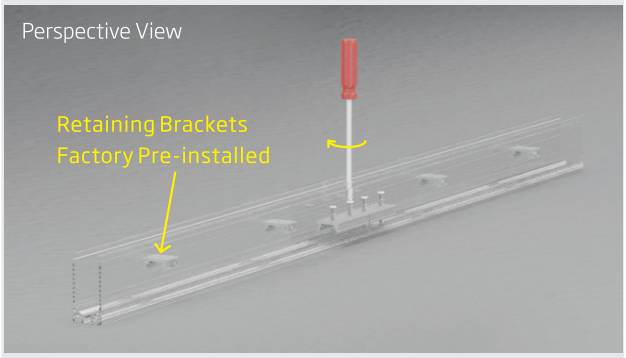
Fix the outer aluminum profile.

Step 3



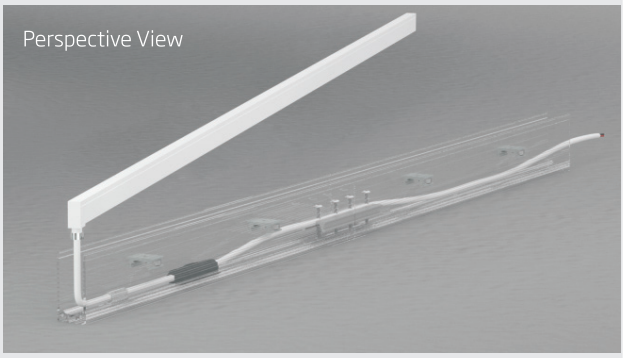
If needed, insert the joining bracket into the bottom slot of outer profiles and centered for the length extension.

Step 4



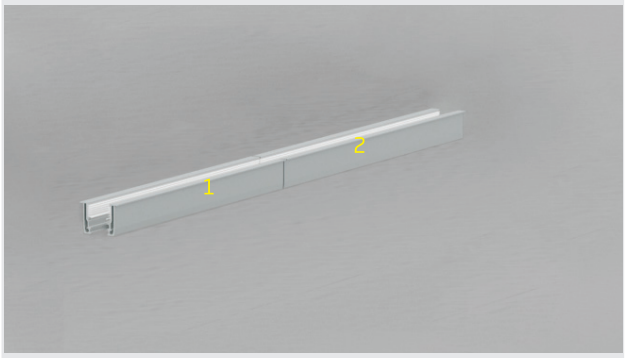
Tighten the screws towards the bottom of outer aluminum profile until locked.

Step 5



Wiring under the retaining bracket and over the joining bracket .

Step 6

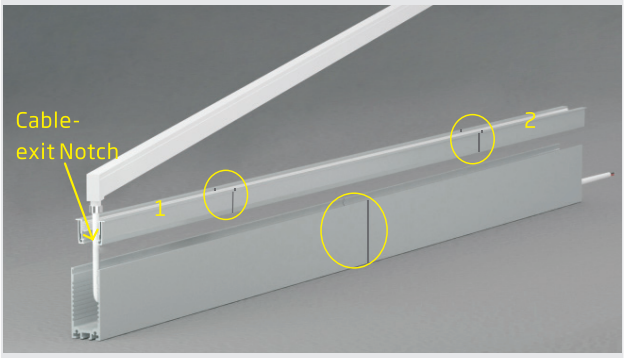


Cut one piece of inner aluminum profile evenly into two segments named 1 & 2 separately.

Installation Instructions

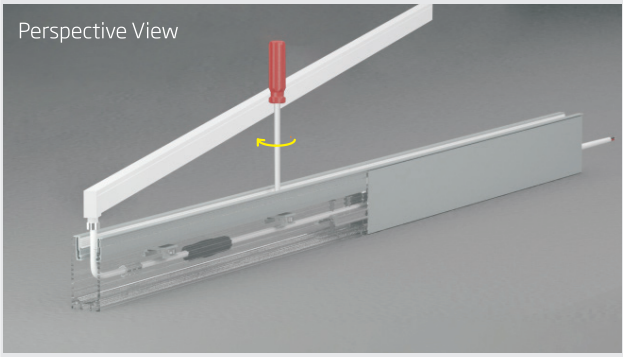
LuxeLED®

Step 7



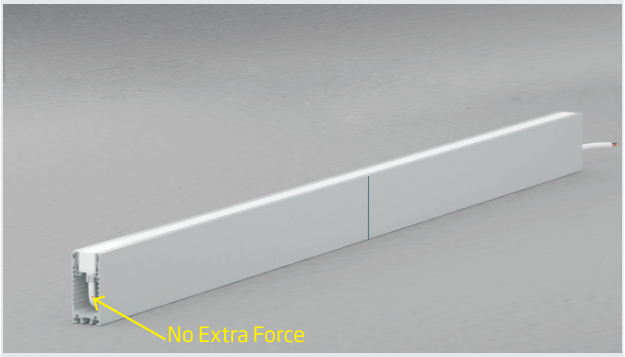
Put inner aluminum profiles inside in the rearranged sequence to keep a staggered installation with outer profiles and be aware of the notch direction prior to it.

Step 8



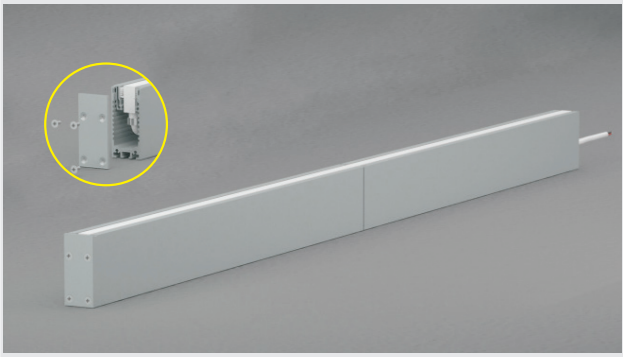
Tighten the screws through retaining bracket to lock the inner aluminum profile.

Step 9



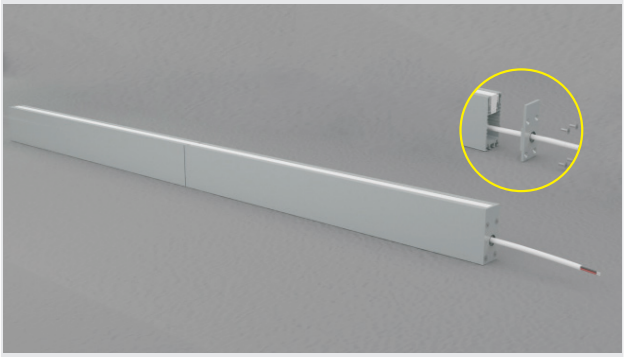
Fit in the light by palm orderly and tidy the excess cable gently.

Step 10



Seal the front connector by the end cover without cable hole and tighten the screws.

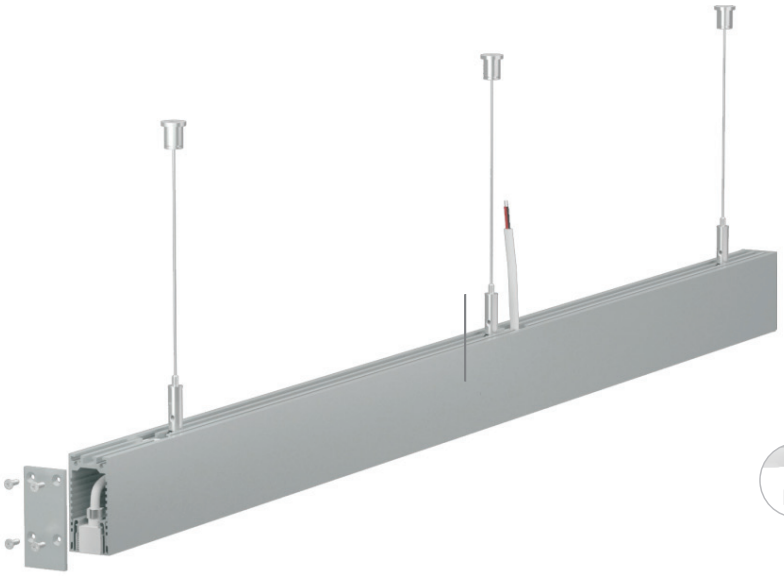
Step 11



Threading the cable through the hole and seal the other end likewise.

Flexneo II Suspended Raceway Aluminium Profile

LuxeLED®

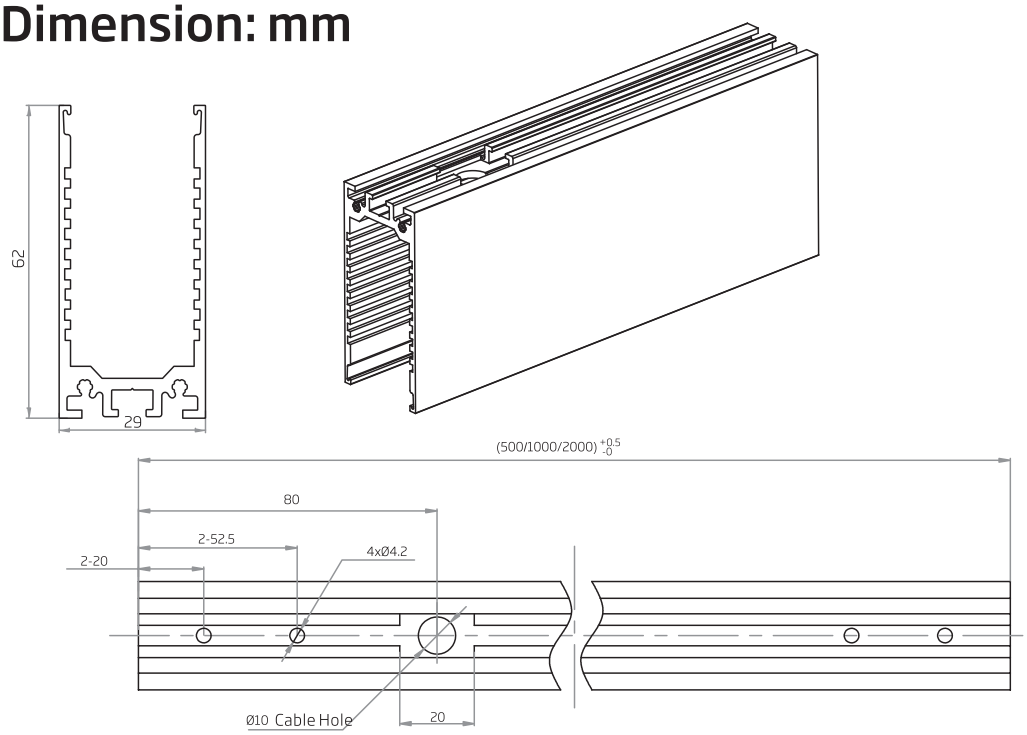


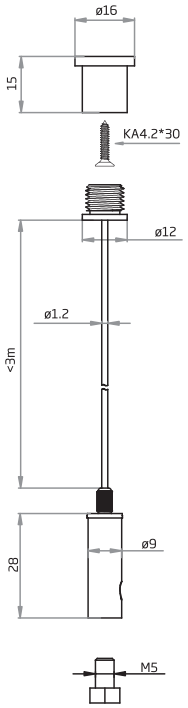
It is an expanded design of the serrated aluminum profile featuring hidden cable upon the advantage of 6063 aluminum profile.
The raceway space is up to 570mm², enough to conceal injection-moulded connector with bottom feed and the general male/female connectors.
It is superb for the facade where tidiness is required and the scenarios that lack of space for wiring.

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



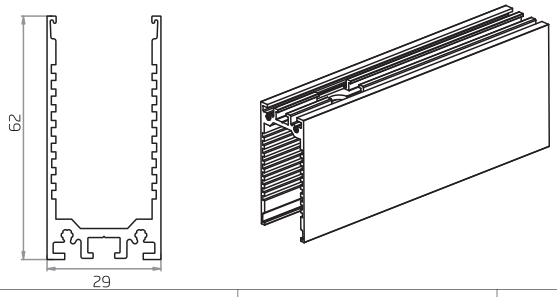
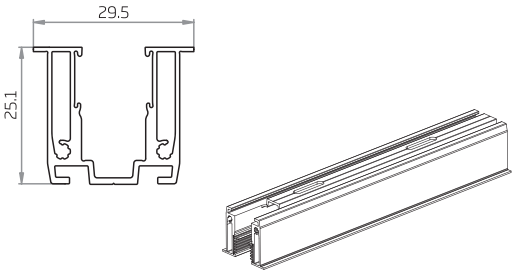


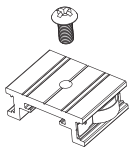
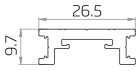
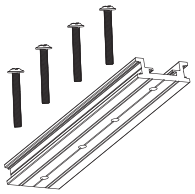
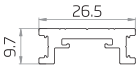
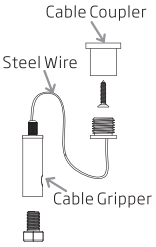
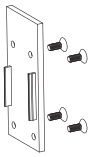
Standard Length
500mm/19.68in
1000mm/39.37in
2000mm/78.74in

Flexneo II Suspended Raceway Aluminium Profile

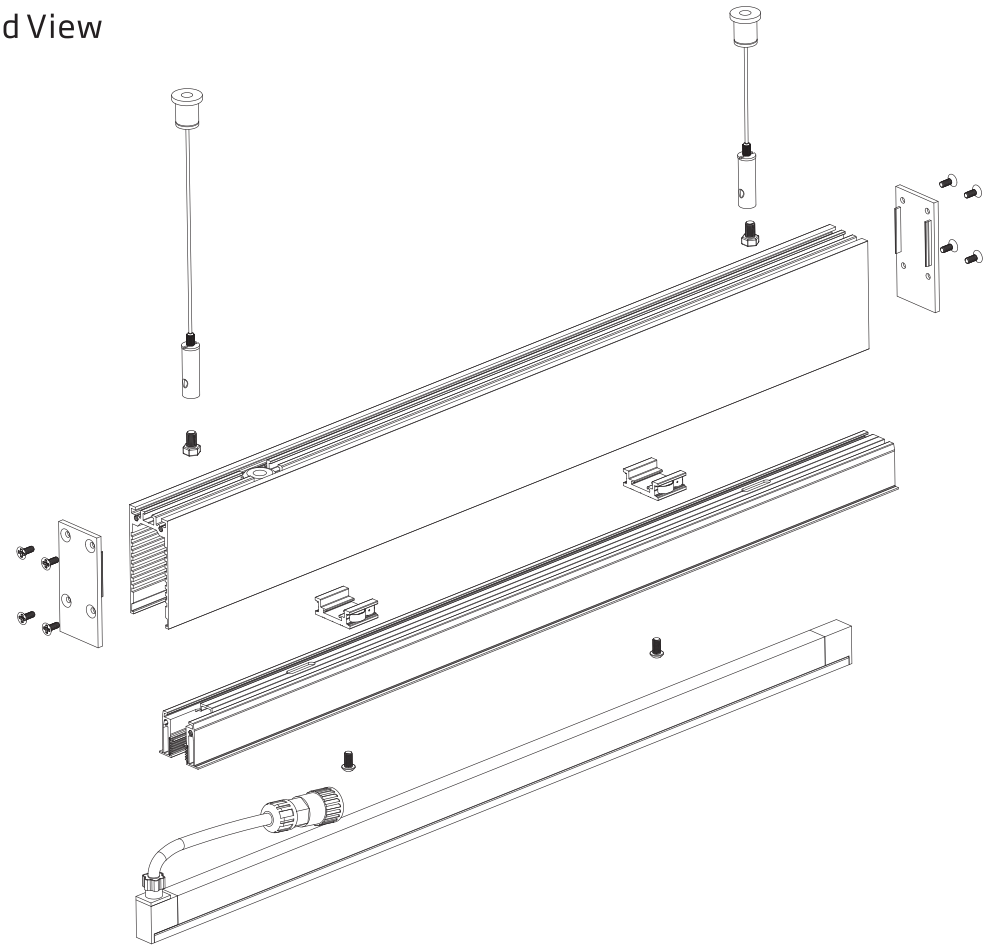
LuxeLED®

Main Components

Outer Aluminum Profile	Inner Aluminum Profile
	

Retaining Bracket for Inner and Outer Profiles	Joining Bracket for Outer Profiles	Suspended Ceiling Kit	End Cover	Rubber Grommet
 PM4*6 Screws 	 PMW4*30 Screws 	 KA4.2*30 Screws	 KM3*8 Screws	

Exploded View

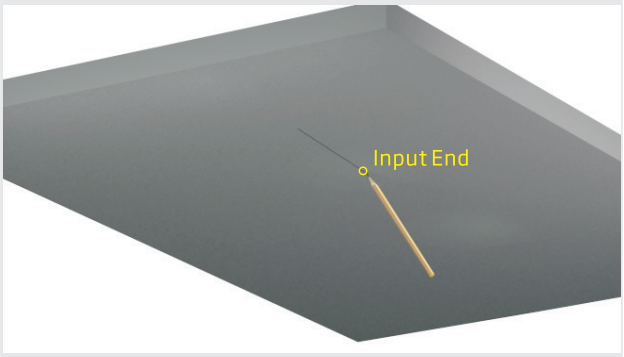


Installation Instructions

LuxeLED®

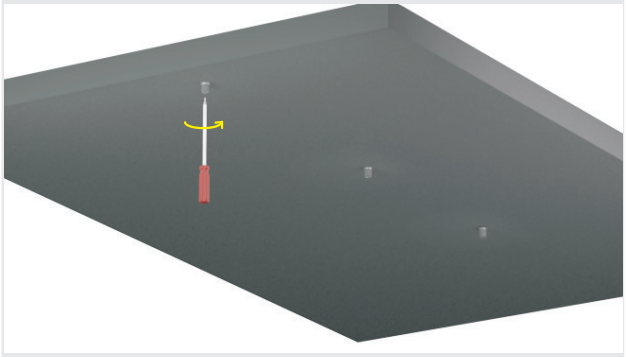
Friendly Reminder: please read instructions carefully before operation.

Step 1



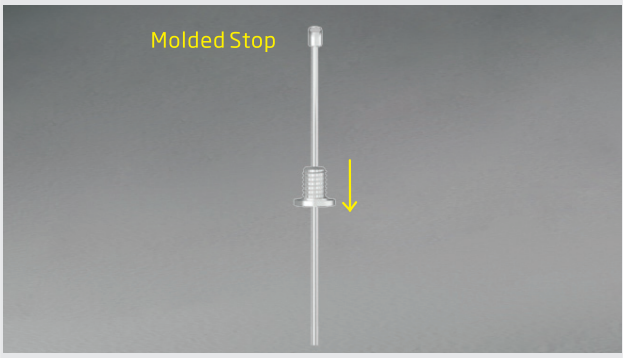
Mark the mounting position and input end on the ceiling with sufficient load-carrying capacity.

Step 2



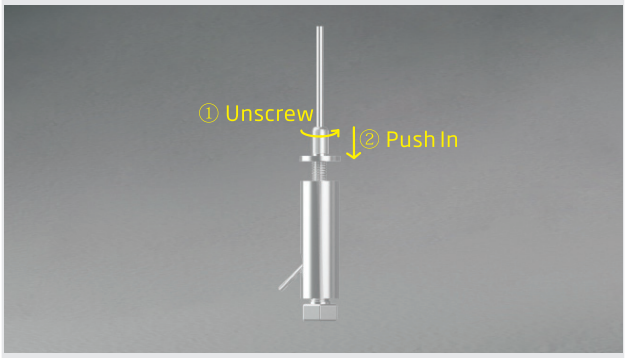
Mount the outer part of cable couplers to the ceiling and tightened by screws.

Step 3



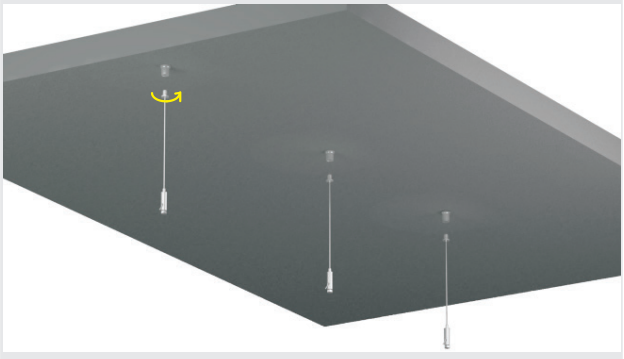
Thread steel wire through the inner part of cable coupler and its molded stop will prevent the wire from falling out.

Step 4



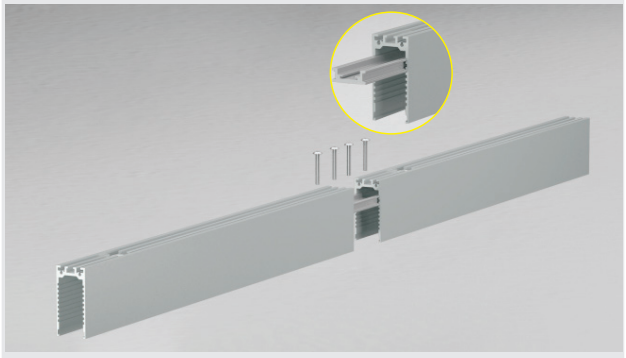
Unscrew the coupling nut on the top of cable gripper and then push in the plunger to allow the other end of steel wire to thread through the keyhole of cable gripper.

Step 5



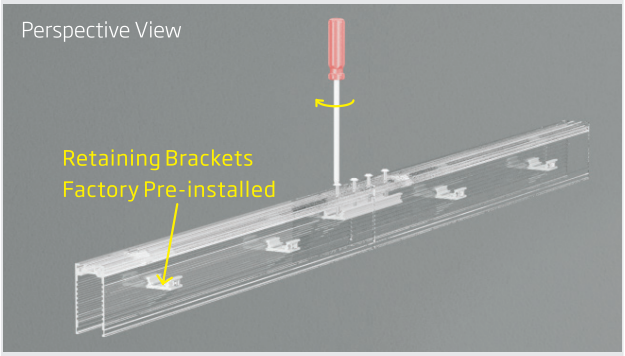
Tighten the assembled cable grippers to the mounted outer part of cable couplers.

Step 6



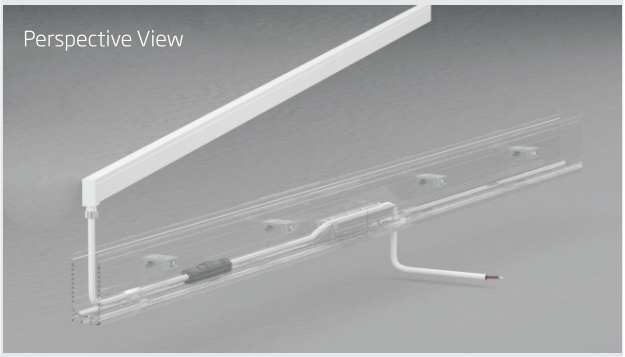
If needed, insert the joining bracket into the bottom slot of outer profiles and centered for the length extension.

Step 7



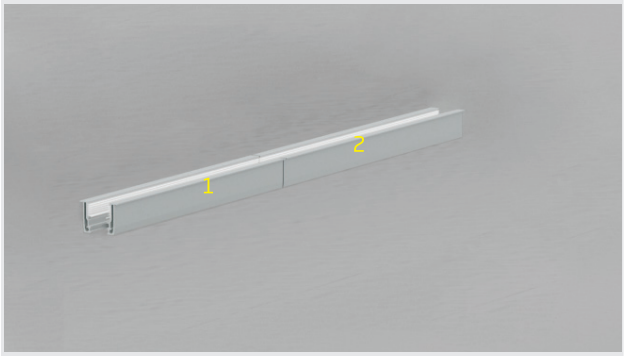
Tighten the screws going through the holes of joining bracket and outer aluminum profiles

Step 8



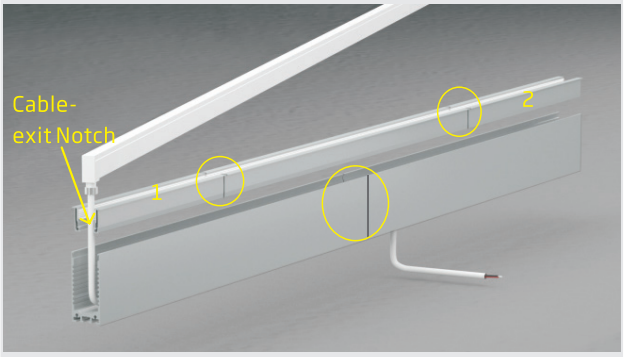
Wiring under the retaining brackets and over the joining bracket, and then thread the cable through the cable hole of outer aluminum profile.

Step 9



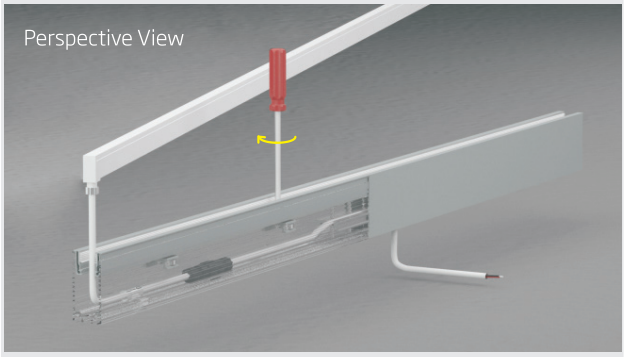
Cut one piece of inner aluminum profile evenly into two segments named 1 & 2 separately.

Step 10



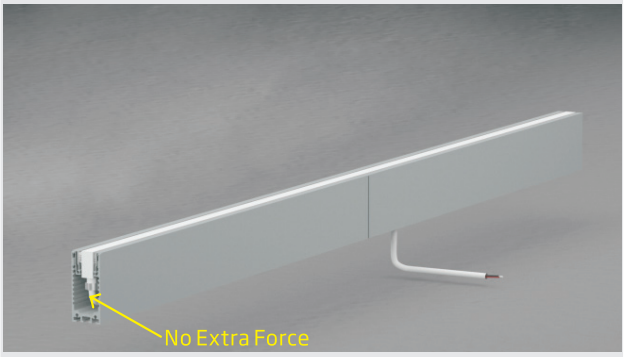
Put inner aluminum profiles inside in the rearranged sequence to keep a staggered installation with outer profiles and be aware of the notch direction prior to it.

Step 11



Tighten the screws through retaining brackets to lock the inner aluminum profile.

Step 12



Fit in the light by palm orderly and tidy the excess cable gently.

Installation Instructions

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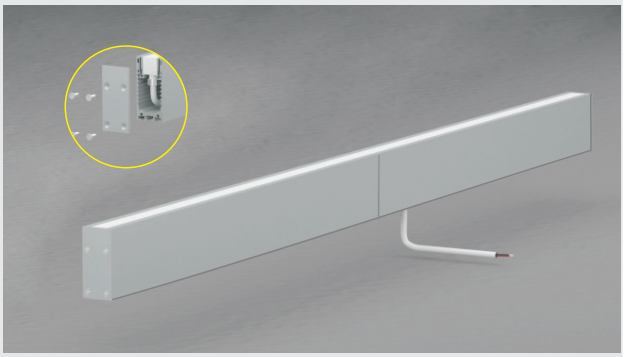
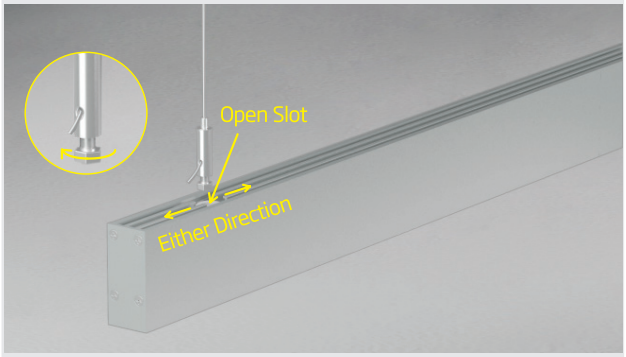
Step 13



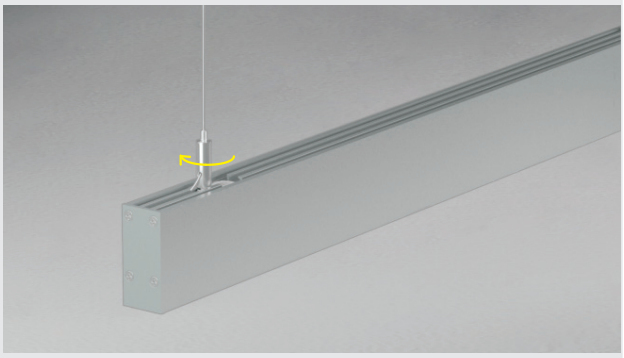
Seal both ends by the end covers and tighten the screws.

Step 14



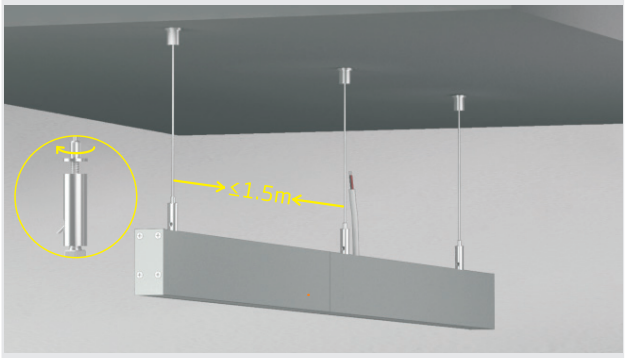
Flip the outer aluminum profiles. Then unscrew the hex bolt of cable gripper and slide it in from the open slots where rubber grommets lay.

Step 15



Tighten the bushings of cable grippers with the hex bolts.

Step 16



Adjust the position of cable grippers and the length of steel wires to the desired ones , and remain all of the steel wires hanging vertically. Tighten the coupling nut the and cut or roll up the excess steel wire at last.