

OPERATION INSTRUCTION

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Wrong operation, prohibited.



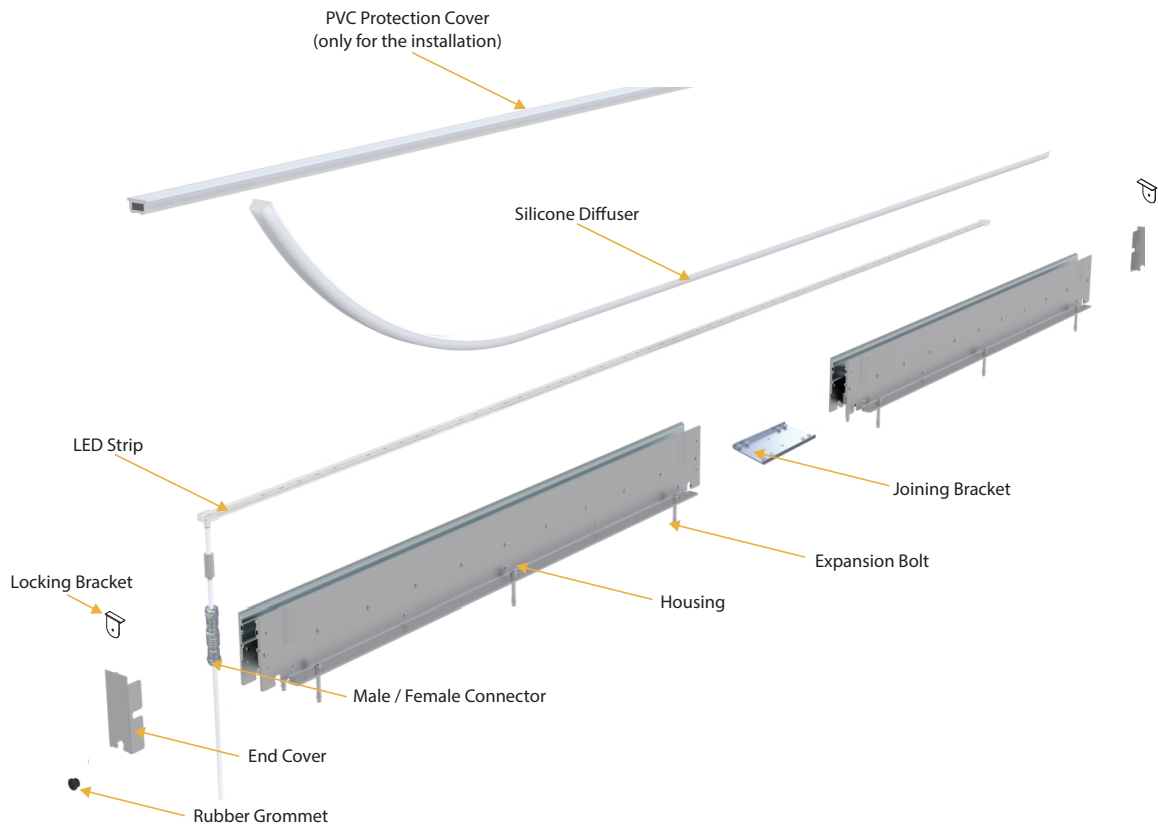
Operation with potential risk, please follow the recommendation inside if allowed.



Correct operation, please comply with it strictly.

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Components



Installation Cautions

- Switch off the main power supply before installation.
- Always ground the fixture and conduct system in accordance with local and national electrical codes.
- For optimal light output, keep the fixtures surface clear and free from dirt, dust, plants, leaves, and any other kind of obstruction.
- This fixture is suitable for concrete pour, brick, pavers, and masonry installations.
- It's not applicable to underwater environments. Please avoid the placement in ground depression and make sure the area beneath the sides of luminaires has a good drainage effect.
- If the placement in ground depression is inevitable, please set up a purpose-built drainage system to prevent luminaires from long-term immersion.
- The electrical cable should be one continuous piece, otherwise, the water ingress might occur from the cable joint.
- The dimensions in this user manual are only for your reference. Please adjust them based on your actual foundation structures.

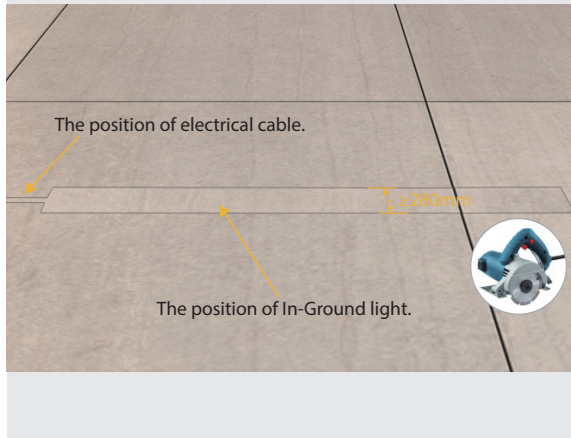
Basic principles on installations:

- a. The top of in-ground light should align with the ground surface after installation.
- b. The bottom of in-ground light can drain the water through the permeable layer.
- c. The foundation must be solid enough to resist subsidence caused by stamping, driving over, climate change, contraction, and expansion, etc...

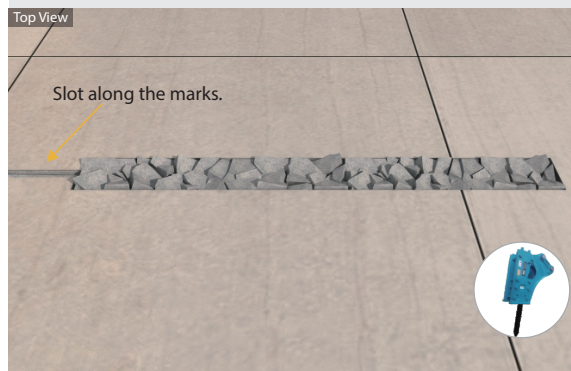
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Installation Instructions

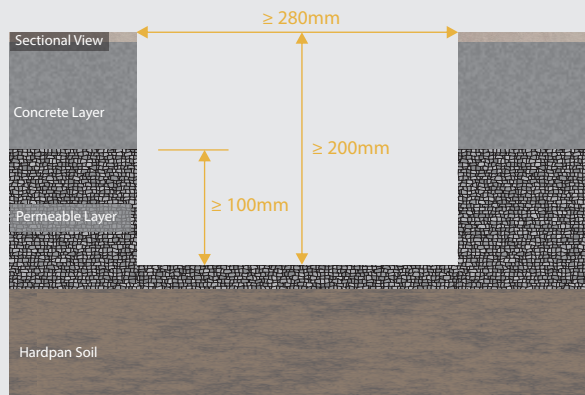
Step 1 ➤ Marking and cutting.



Step 2 ➤ Breaking and slotting.

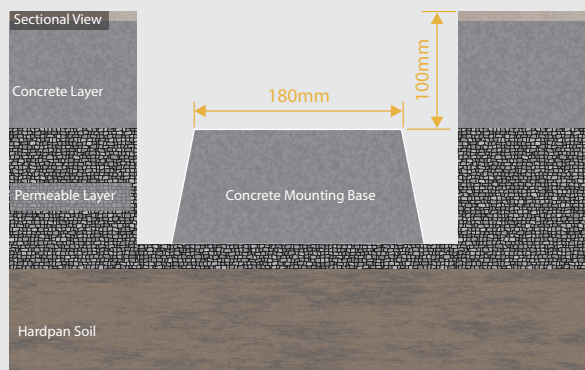
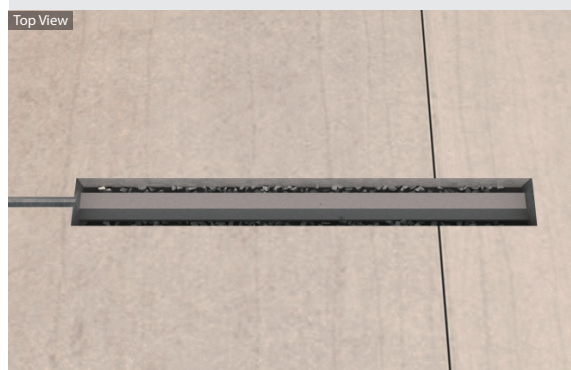


The slot depth depends on the depth of permeable layer and concrete layer.



Slot depth of the permeable layer: Keep it at least 100mm to ensure a good drainage.

Step 3 ➤ Build a concrete mounting base for the in-ground light.

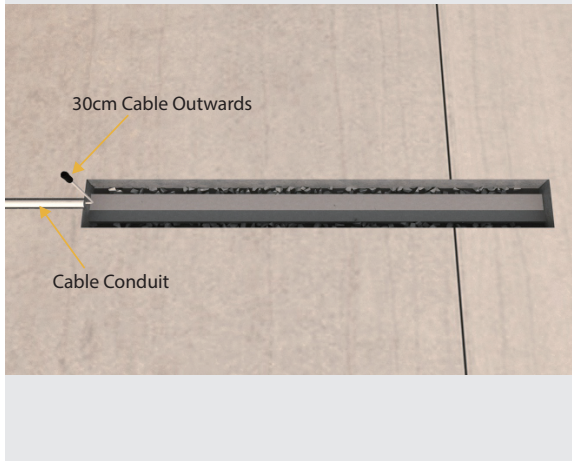


Make sure that the concrete mounting base is even for in-ground light installation and thick enough to bear expansion bolts.

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Step 4 ➤ Cable lying.

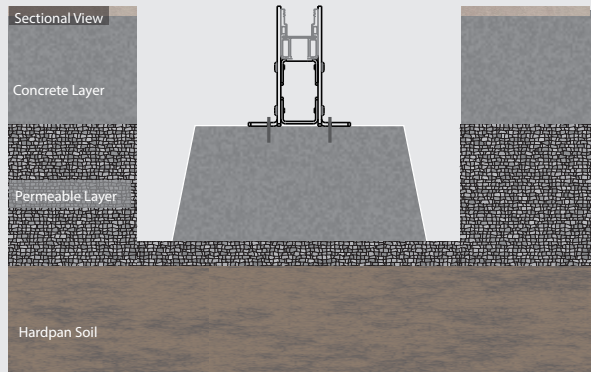


Step 5 ➤ Fix the housing of in-ground light.

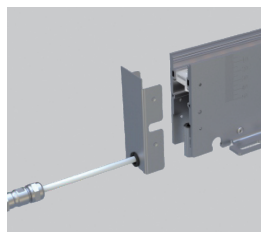
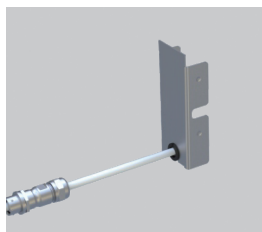
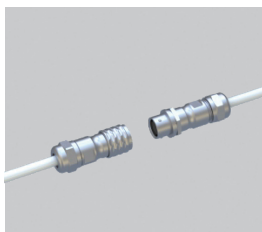
Top View



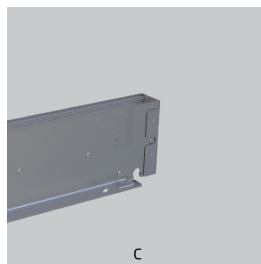
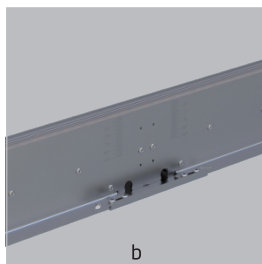
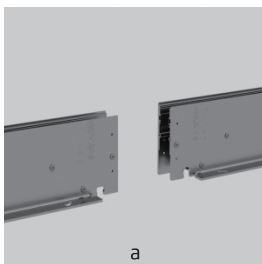
Sectional View



Use the expansion bolts to fix the housing beginning from the power input end.



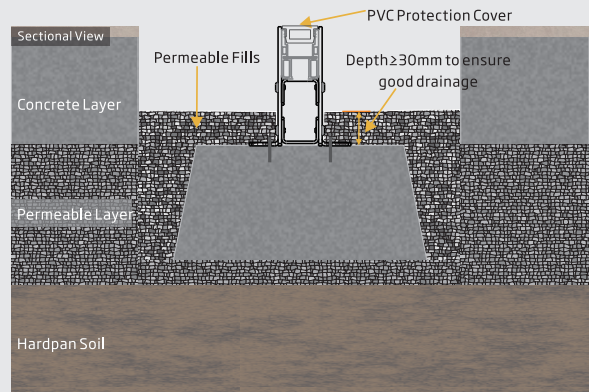
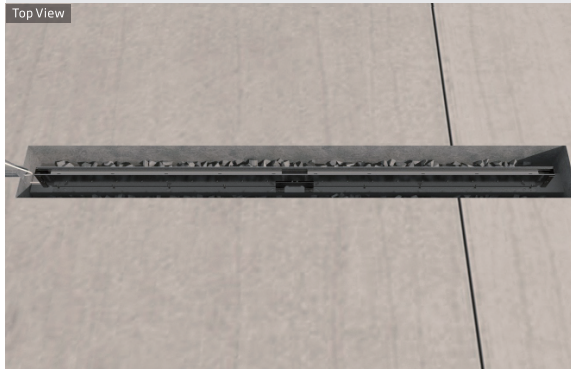
Make sure the end cover is in place when drawing the electrical cable into the housing.



- Fix the housing orderly and extend more lengths as desired.
- Align the housing and then connect them by joining bracket
- Cap the end.

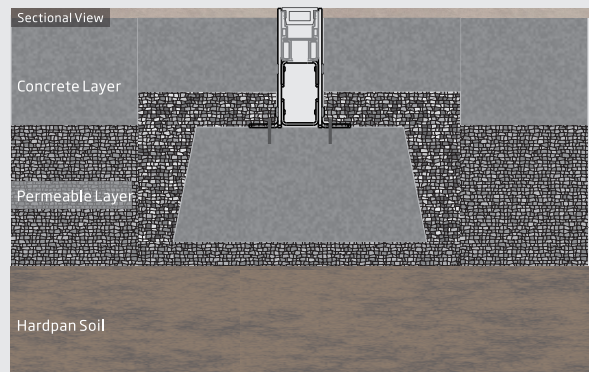
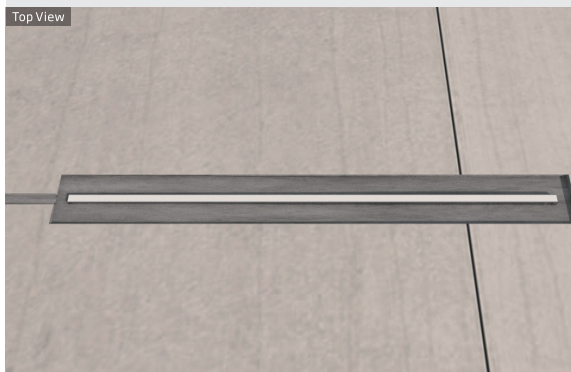
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Step 6 ➤ Pack with the permeable fills and then compact them.



Remember to seal the top of housings with PVC protection covers before pouring the fills.

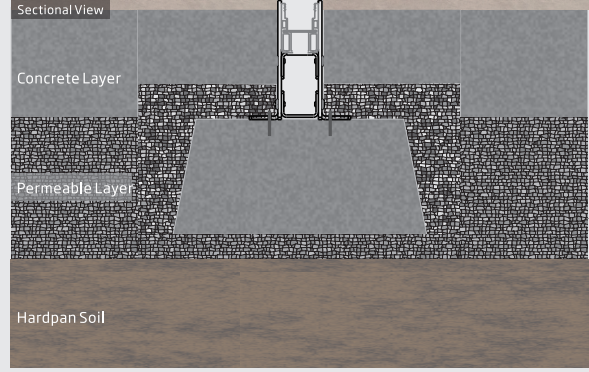
Step 7 ➤ Pack with the concretes.



Handle in the same way for the cable conduit.

Repair the ground surface by paving the same flooring as before, like floor tile, sequare brick, marble, etc.

Step 8 ➤ Take our the PVC protection cover.



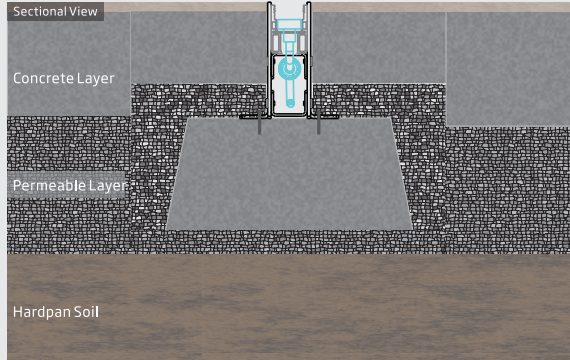
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Step 9 ➤ Install the lights and power on.

Top View



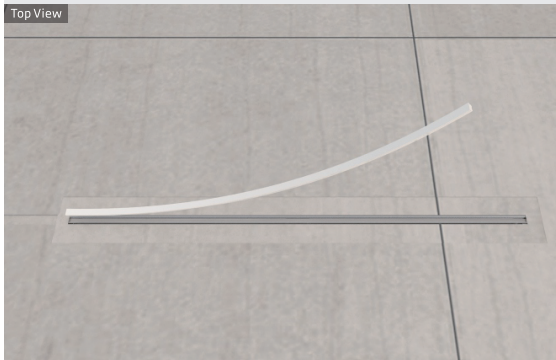
Sectional View



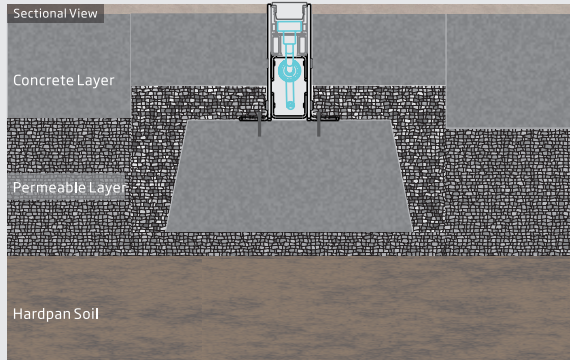
- Connect the connector of electrical cable placed in the housing with the connector of light;
- Fit the lights orderly starting from the power input end;
- Check the wiring and then power up.

Step 10 ➤ Seal with the silicone diffuser after the light works well.

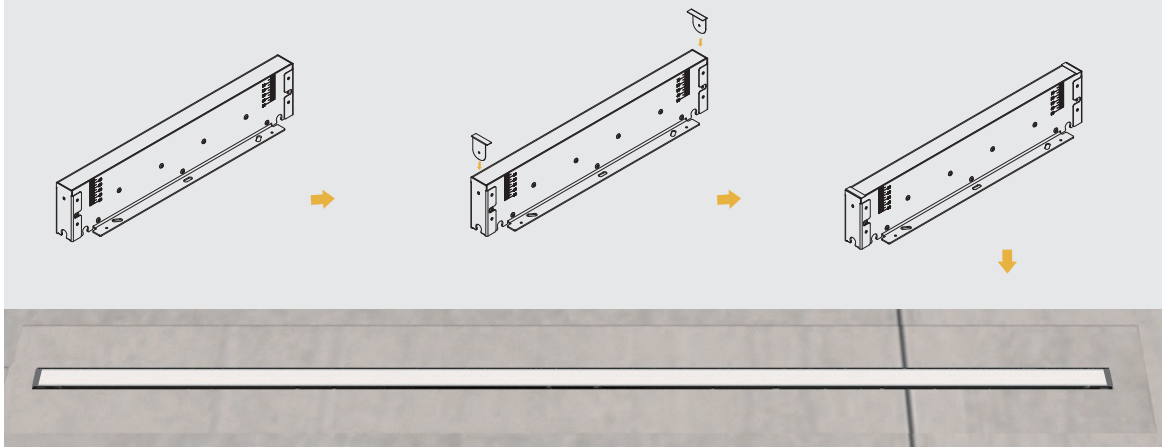
Top View



Sectional View

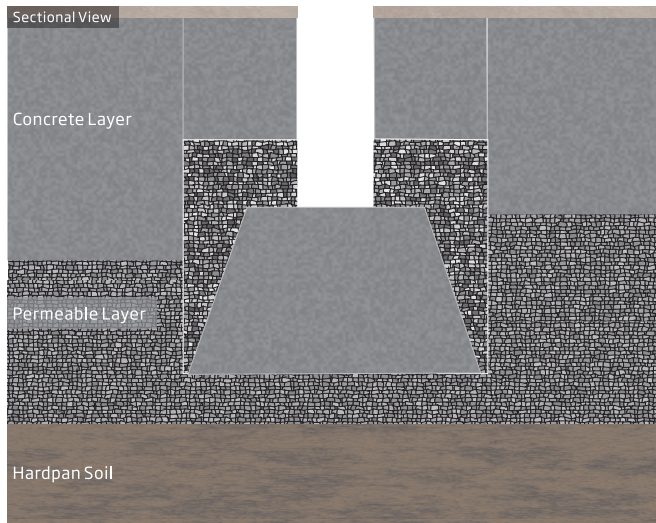


Step 11 ➤ Insert the locking brackets at both ends to secure the top silicone diffuser and prevent theft.



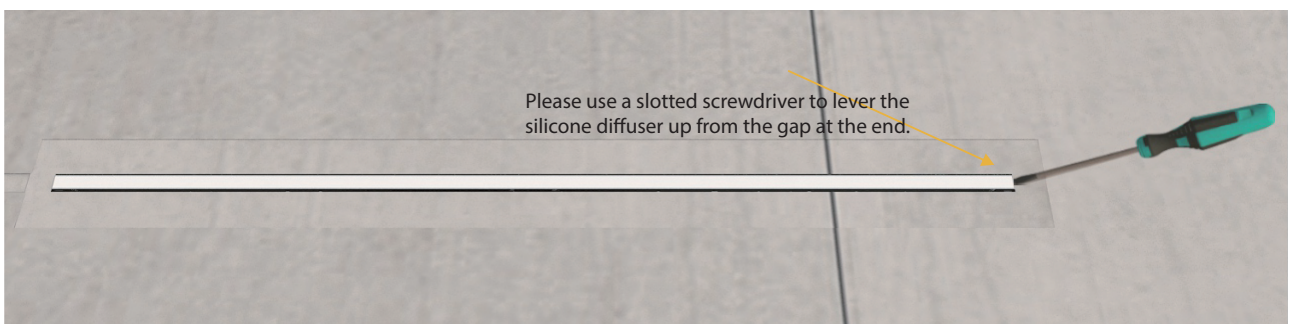
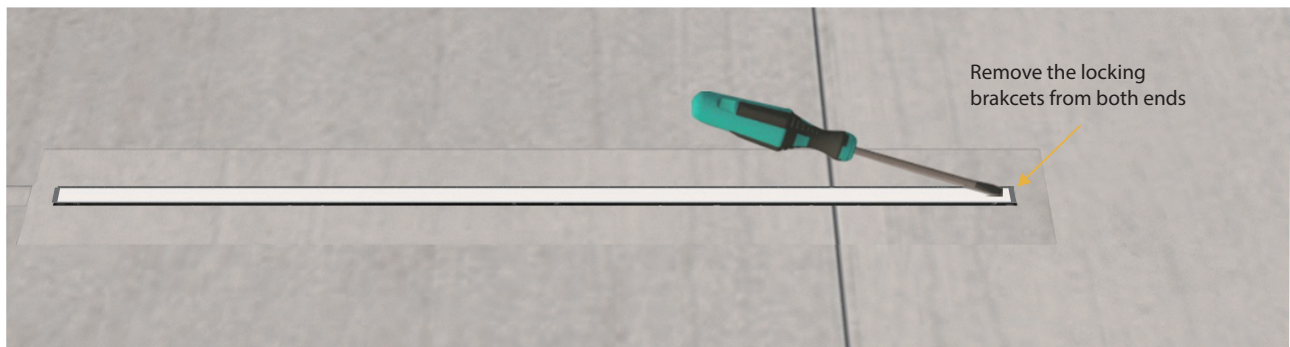
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Supplement



When the concrete layer in the ground is too thick, please deepen the slot depth accordingly to ensure the bottom part of in-ground light is situated in a permeable layer.

Takedown



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Maintenance & Replacement

Regular maintenance, systematic troubleshooting, and the use of standardized replacement components ensure long-term reliability, safety, and optimal performance of inground lighting systems.

Daily Maintenance

Frequency:

Every 3-6 months (or immediately after extreme weather events such as earthquakes, heavy snow, floods, typhoons, or ice storms).

Inspection Checklist

- ✓ **Surface Debris**
Remove dirt, mud, leaves, or other obstructions blocking light emission.
- ✓ **Light Performance**
Check for flickering, dimming, or complete failure.
- ✓ **Physical Damage**
Inspect for cracks, deep scratches, or signs of impact on the silicone cover.
- ✓ **Junction Box Integrity**
Verify waterproof connectors are intact with no aging or deterioration.

Cleaning Tips



Recommended Method

Use a soft cloth with a neutral cleaner (avoid abrasive brushes or harsh chemicals).



Alternative Method (High-Pressure Cleaning)

A water jet gun is recommended for a deep, intensive cleaning. Cleaning machines are also advisable, provided the inground light can withstand the weight. See the Inground Light Brochure for specific applications.

Rising Pressure: 20-80 bar (290-1160 psi).
 Nozzle: fan nozzles only (disperses pressure);
 zero-degree nozzles may cause surface damage.
 Distance: 30-50cm. (can be 15cm for stubborn stains for 20-30 seconds max.).
 Water Temperature: ≤40°C (room temp or lukewarm).

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Replacement Instructions

Replacement Conditions

- **Silicone Cover Damage:**
Cracks, deep dents (>3mm), or permanent stains affecting light output.
- **Light Failure:**
Flickering, dimming, extinguishing, or dead LEDs or no illumination at all.

Step-By-Step Replacement



Critical Reminders:

NEVER stretch the silicone cover before cutting it.

Avoid excessive force to prevent damage.

Clean the channel before reinstalling the cover.



A. Silicone Cover Replacements

a. Remove Old Cover

Use a screwdriver to pry open the cover from one end.
Gently pull it out along the profile.

b. Align Length & Cut New Cover

c. Install New Cover

Install the new silicone cover and ensure it fits evenly along the profile.



B. Light Replacement

a. Power Off

Disconnect electricity completely.

b. Locate Faulty Light

Identify the exact position where the light needs replacement.

c. Remove Silicone Cover

Follow step 1) in Section A.

d. Extract Defective Light

Remove the failed light.

e. Pre-Install

Test the new light before installation.

f. Install New Light

Match polarity and ensure connectors are clean and dry.

g. Post-Install

Restore power and test the new light again

h. Reinstall Silicone Cover

Carefully reposition the cover and ensure it fits evenly along the entire profile.