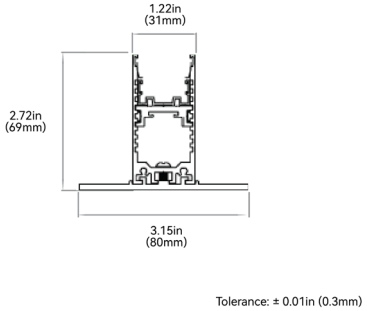
LUMIFORM RIGID

Installation Manual

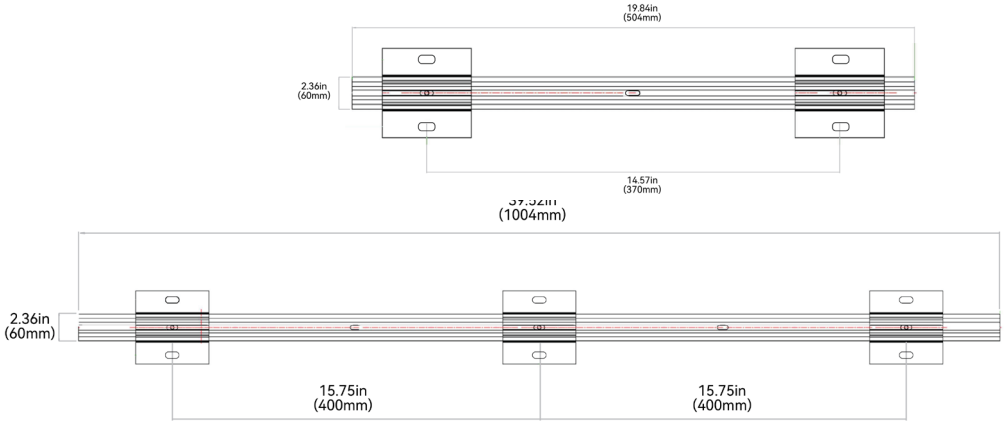
Our LightStrip XL fixture is paired with Stainless Steel or Aluminum rigid in-ground mounting systems. Designed to bridge the gap between aesthetics and robustness, the LightStrip XL is made to resist the test of time and weather. When LightStrip XL is packaged together with one of our in-ground mounting systems it creates our LumiForm LightStrip XL - rigid in-ground system.

DIMENSIONS

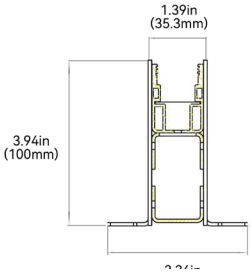
ALUMINUM INGROUND RIGID

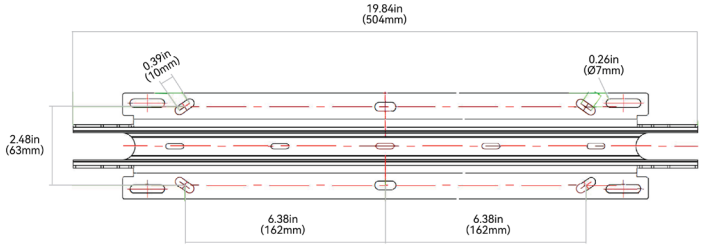


Tolerance: ± 0.01in (0.3mm)

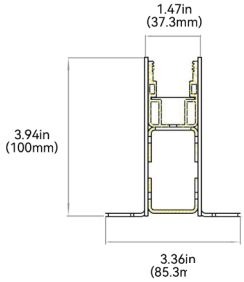


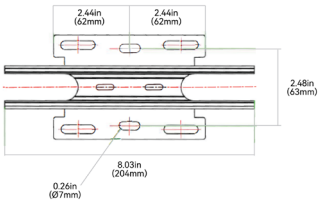
STAINLESS STEEL INGROUND RIGID

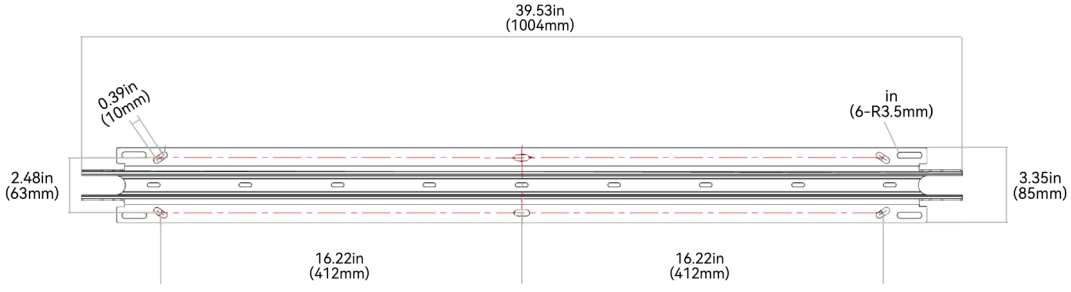




STAINLESS STEEL INGROUND RIGID HEAVY DUTY





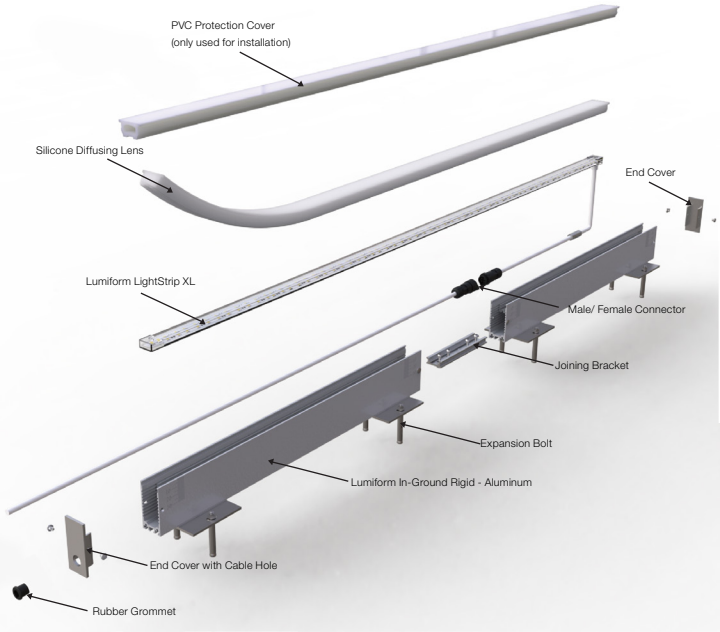


LUMIFORM RIGID

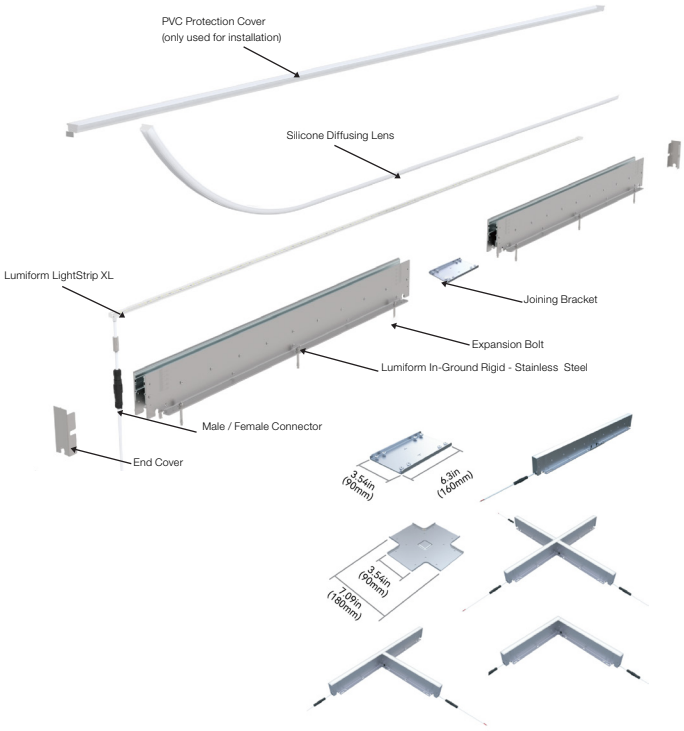
COMPLEXITY, SIMPLIFIED.

Components

ALUMINUM COMPONENTS



STAINLESS STEEL COMPONENTS



INSTALLATION WARNINGS

- Disconnect power before installation.
- Always ground the mounting channel and conduit system in accordance with local and national electrical codes.
- For optimal light output, keep the fixture surface clear and free from dirt, dust, plants, leaves, and any other kind of obstruction before placing silicone lens. This in-ground channel solution is suitable for poured concrete, and masonry installations.
- Not suitable for underwater use. Avoid installing in low-lying areas or ground depressions where water may collect. Ensure proper drainage around the base and sides of the luminaire.
- If installation in a low-lying area is unavoidable, a dedicated drainage system must be installed to prevent the luminaire from prolonged exposure to standing water.
- Use a continuous length of electrical cable whenever possible. Joints can be vulnerable to water ingress and may compromise the integrity of the installation.
- The dimensions provided in this manual are for reference only. Please adjust them according to the actual foundation structure. Key installation principles:

    a. The top of the in-ground light should be flush with the ground surface after installation.
    b. The base of the in-ground light can drain threshold allow water to drain through a permeable layer.
    c. The foundation must be stable and strong enough to prevent settling or shifting due to foot traffic, vehicle loads, weather conditions, and natural ground movement such as expansion and contraction.

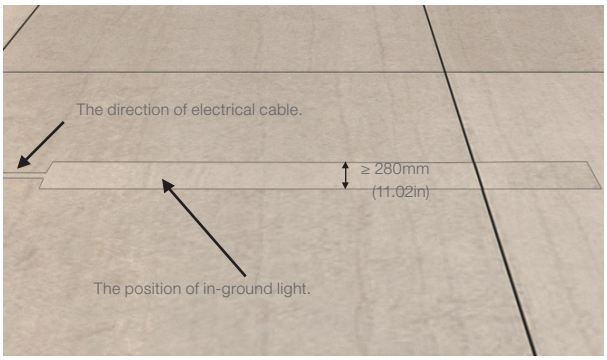
LUMIFORM RIGID

COMPLEXITY, SIMPLIFIED.

Installation

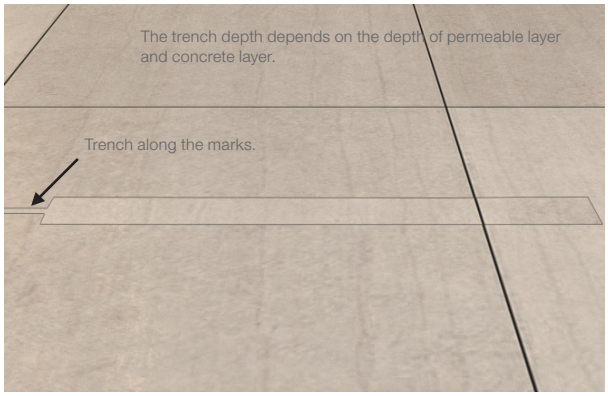
STEP 1:

Marking and Cutting. *For pre-existing retrofit installation.

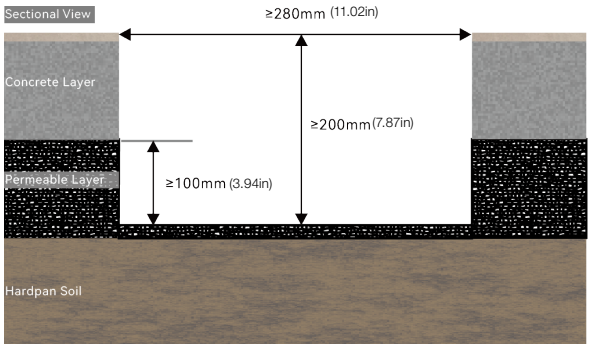


STEP 2:

Trench Layout

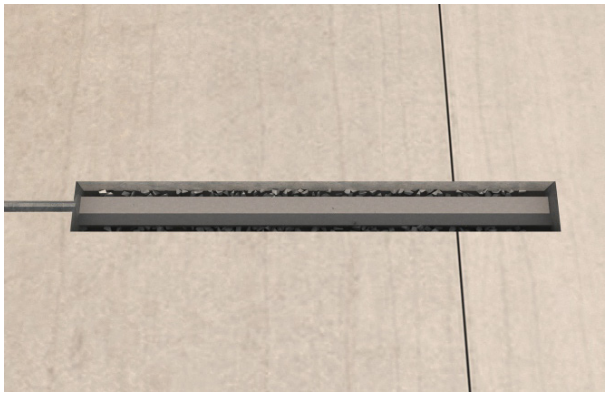


Trench depth of the permeable layer: Keep it at least 100mm to ensure a good drainage.

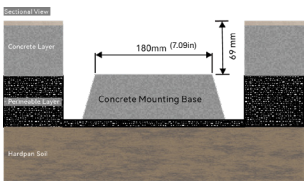


STEP 3:

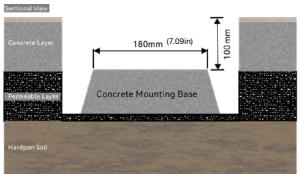
Build a concrete mounting base for the in-ground mounting channel.



Ensure the concrete mounting base is level and thick enough to securely support expansion bolts for in-ground channel installation.



ALUMINUM



STAINLESS STEEL

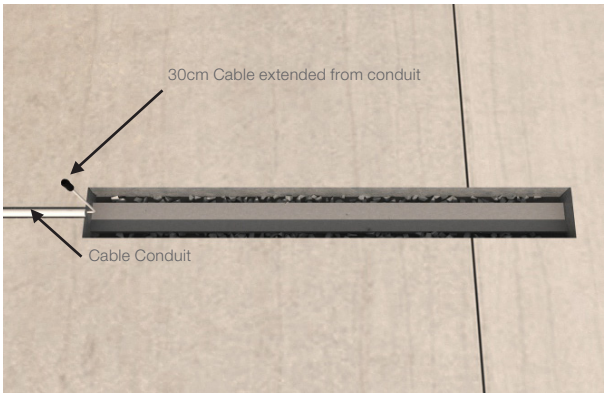
LUMIFORM RIGID

COMPLEXITY, SIMPLIFIED.

Installation Continued

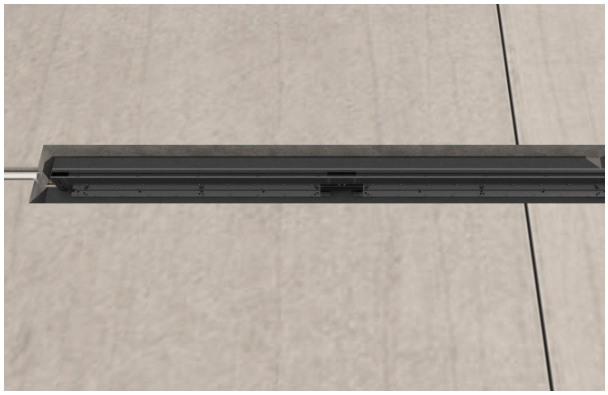
STEP 4:

Cable Routing

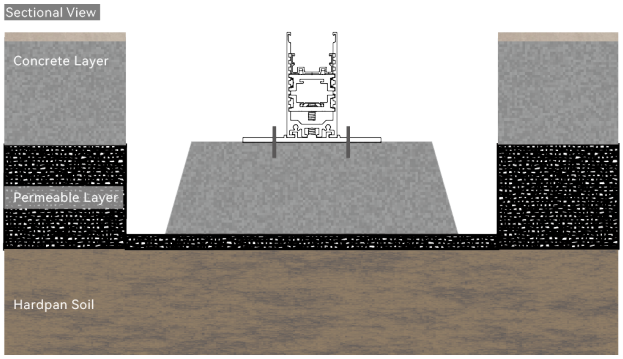


STEP 5:

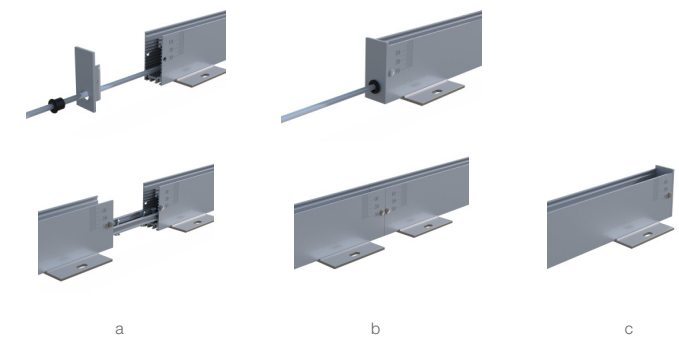
Attach in-ground mounting channel



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

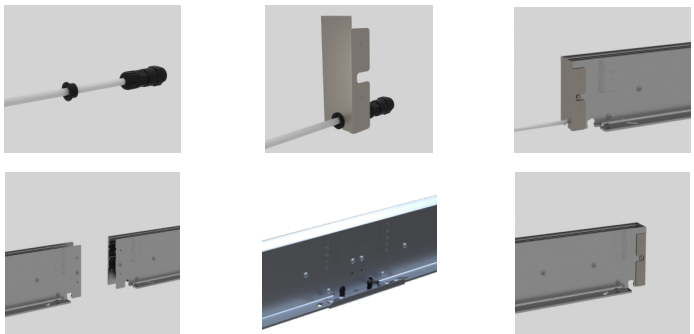


ALUMINUM



a b c

STAINLESS STEEL



a b c

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

a. Fix the housing orderly and extend more lengths as desired.
b. Align the housings and then connect them via joining brackets.
c. Cap the end.

LUMIFORM RIGID

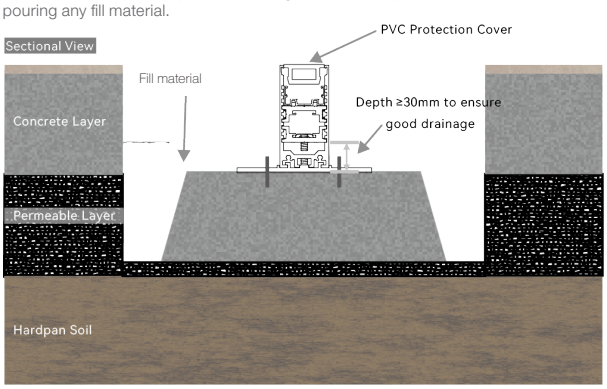
COMPLEXITY, SIMPLIFIED.

Installation Continued

STEP 6:

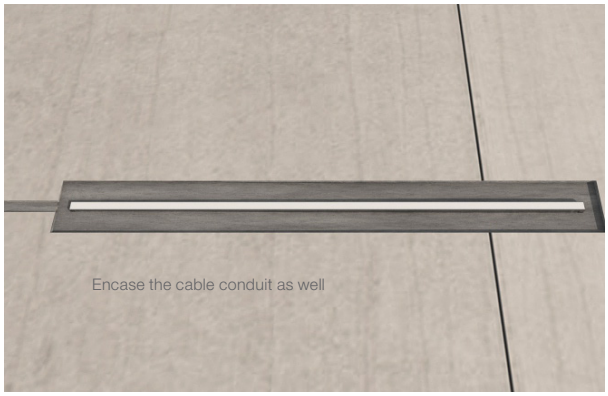
Compress surrounding area with permeable fill material and compact it.

Remember to seal the top of the housing with the PVC protection cover before pouring any fill material.

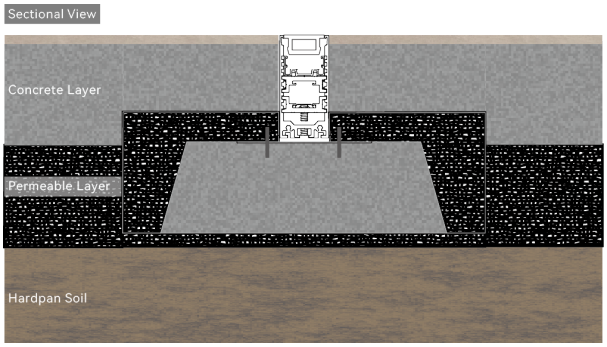


STEP 7:

Encase with concrete

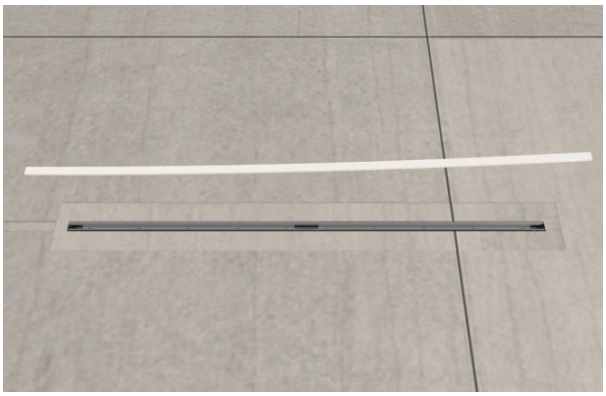


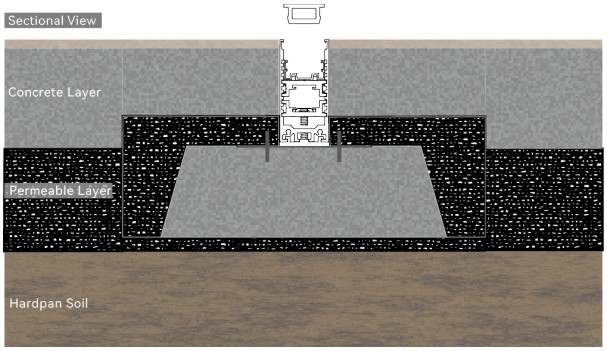
If performing a retrofit, restore the ground surface using the original flooring materials.



STEP 8:

Remove the PVC Protection Cover





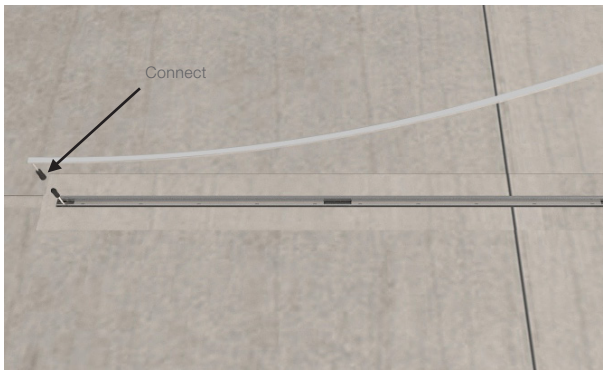
LUMIFORM RIGID

COMPLEXITY, SIMPLIFIED.

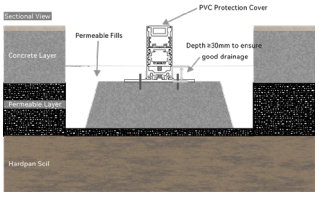
Installation Continued

STEP 9:

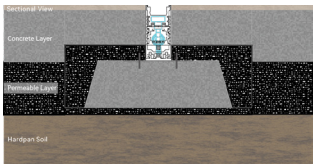
Mount the light fixture, then turn on the power to test the installation



Connect the cable from the conduit with the lead wire of the light fixture.
Insert the luminaire starting from the power input end.
Verify all wiring connections before powering on.



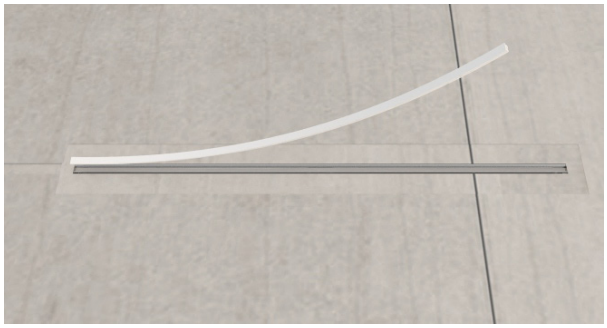
ALUMINUM

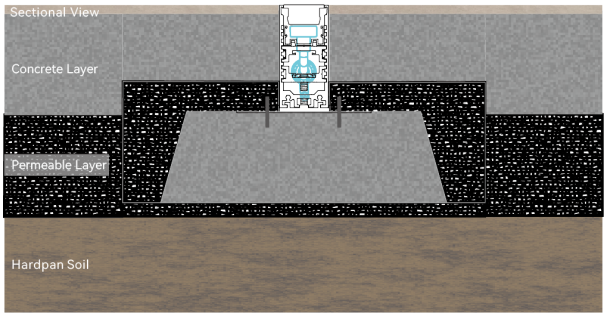


STAINLESS STEEL

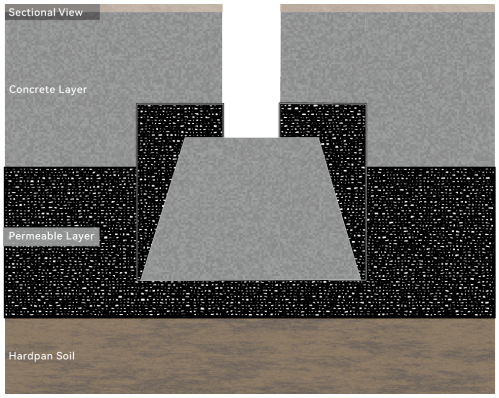
STEP 10:

Complete installation by installing the Silicone Diffusing lens after confirming light function.

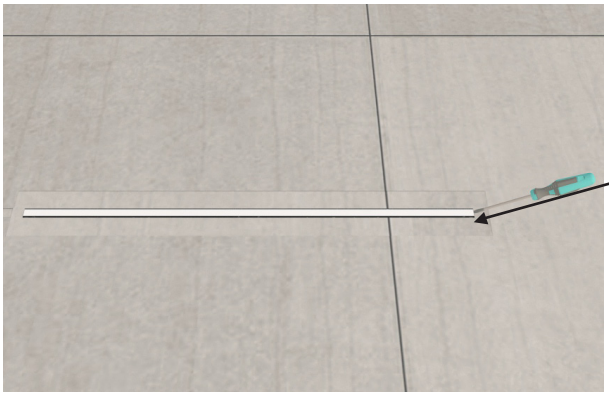


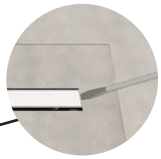


ADDITIONAL INFORMATION



If the concrete back is too thick, deepen the trench depth in order to ensure the bottom of the in-ground mounting channel is located in the permeable layer.





In order to remove lens, carefully use a trench screwdriver to lever the silicone diffusing lens from the gap at the end.