

LUMINO

Vero-I

INSTALLATION MANUAL

IM-VERO-I_R2401

TECHNICAL SUPPORT

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Installers must read this document and any other referenced documents in full before commencing installation work. Failure to observe all installation guidance in this document may result in unsafe installation, cause permanent product damage and void product warranty.

This document is subject to change without notice.
Check for latest documentation with LUMINO.
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HANDLING PRECAUTIONS

GLASS

Take extra care with glass when handling the product. Glass can be chipped, if hit on the edge against hard objects. Do not apply pressure with small or sharp objects to the glass. Glass is rated for walk over use.

POWER CABLES

The product end caps, power cables and connectors must not be pulled or twisted. Never pull the product by its power cables or hang it from its power cables or connectors.

IMPACT PROTECTION AND STATIC LOAD

This product has a maximum IK rating of IK09, and can resist a maximum 5kN/min static load. The product is not vandal resistant.

CUTTING AND SAWING

The product must not be cut, sawn, drilled or otherwise modified in any way.

DAMAGES

Inspect the product and if you see any damage upon unpacking report to LUMINO immediately and do not install the product.

CLEANING

Avoid harsh chemicals and aggressive cleaning devices, such as pressure washers. See page 3 for further cleaning information.

LOCATION

Suitable for wet and damp locations. IP68 rated for temporary submersion of max. depth. 1m. max. duration 30mins. Ensure adequate drainage under the product. Protect product from dust, paint and harmful substances during installation and use. Unsuitable for installation in environments subject to movement or vibration. Ensure product is not exposed to VOC gases. Do not obstruct light output.



SAFETY GUIDANCE

WIRING GUIDE

Follow the guidance shown in the provided wiring guide, including maximum cable lengths, cable sizes and other wiring instructions. When running cables through an enclosure, ensure cables are protected from damage, separated from mains voltage cables and anchored against being pulled. Make connections appropriate for the IP rating of the product.

QUALIFIED INSTALLER

Installation must be carried out by a qualified person and conducted in accordance with local regulations and applicable standards.

THERMAL MANAGEMENT

Ensure ambient temperature (Ta) does not exceed 40°C (104°F) and case temperature (Tc) does not exceed 70°C (158°F). Exceeding maximum Tc will cause permanent damage and void the product warranty.

Allow sufficient clear air space for the LED drivers, as well as suitable access to the drivers as specified on installation instructions.

REPAIR AND REPLACEMENT

If the product is not functioning, contact LUMINO to register a Service Call for factory repair or replacement. Light source is not user replaceable. See page 4 for Ecodesign and end of life information.



DRIVERS

POWER OFF

Product and driver must not be live wired. Switch off power before work begins. Follow instructions and guidance for the make and model of driver being used.

24VDC SELV

Only use drivers with a maximum output of 24VDC. Drivers must be SELV, constant voltage with both overload and short-circuit protection.

DIMMERS

Check dimmer is compatible with the driver and certified to local regulations.

INRUSH CURRENT

Many constant voltage LED drivers can have high inrush current at power-on. Driver's inrush current can be many times the normal operating current. Use a suitable MCB. Type C MCBs are normally suitable but if inrush current is a persistent problem an inrush suppressor may be required.

PROTECTION

Use only with 24VDC SELV power supply (driver) with overload and short-circuit protection. Rate driver load for at least 10% above stated load. Driver protection circuitry must not be relied upon to protect secondary 24VDC electrical circuits from damage caused by over-current or short circuit. DC fuses or DC electronic circuit breakers are recommended for full protection. Allow for access to drivers for maintenance and sufficient clear air space for ventilation.

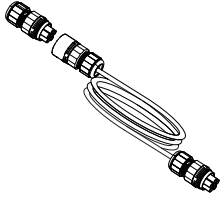
CABLING

Do not overload the driver. Damage will be caused by incorrect input voltage, reverse polarity or short circuit. Plan for loads, driver locations, dimming and cabling prior to start of work. Ensure basic insulation is maintained between mains and dimming control wires.

ACCESSORIES

Cable & Connector

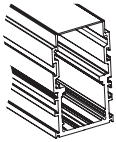
VECA-CA8102-R1
Power link cable
2m cable length



VECA-CA8110-R1
Power link cable
10mm cable length

Ground Channel

V36G-B2050-R1
2050mm Profile
Site cuttable



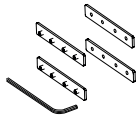
Ground Channel End Caps

V36G-MB202-R1
2pcs end caps



Ground Channel Joining Kit

V36G-JB203-R1
Joining kit



Clips

V36G-MB201-R1
10pcs clips
4 pairs per metre

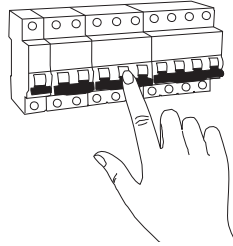


Removal Tool

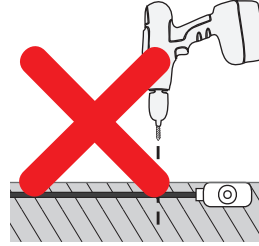
V36I-MA204-R1
1pcs tool



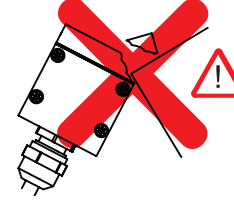
CHECK FIRST!



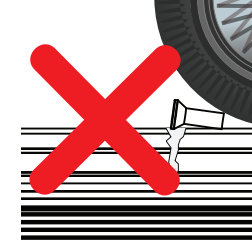
TURN POWER OFF!



CHECK SURFACE!



GLASS PRODUCT!
HANDLE WITH CARE!



DO NOT DRIVE
OVER!

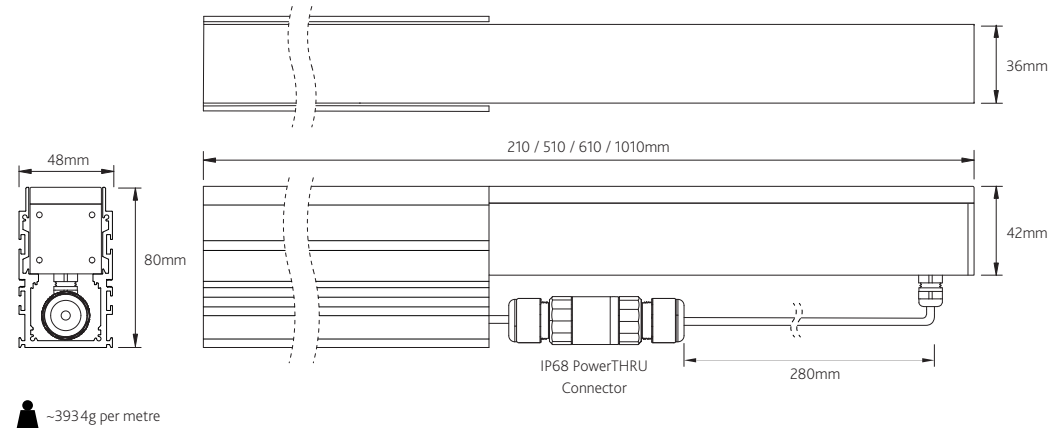


MAX. 5kN/min
BSEN 60598-2-13

INSTALLATION

1. Plan Installation

Check product and its dimensions against the planned installation. Runs of LEDs may have to be installed in a particular sequence.



~3934g per metre

Installation note!

The last light on a LED circuit should only have a single connector attached. Do not finish a run with a light that has two power connectors (leaving one unused) - water will ingress through unused connectors. Never expose open connectors or cable ends to water. Water can track through unsealed cable ends and cause irreparable damage to internal circuitry.

2. Prepare Power Supply

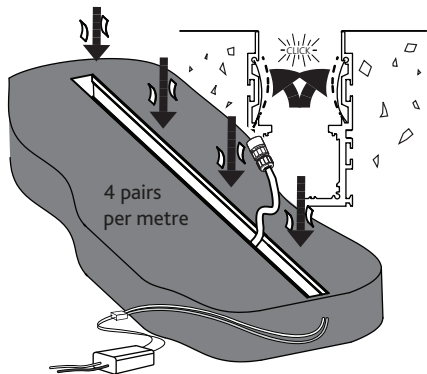
This product requires a 24VDC power supply. Please refer to the provided wiring guide document. Failure to follow guide may result in damage to the product and voiding of warranty.



LED driver must be located somewhere suitable for its IP rating. All connections made to and from the LED driver must be IP rated.

3. Install Clips

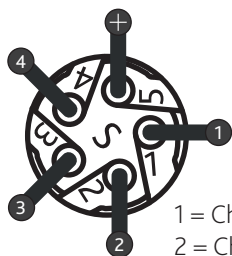
See V36G installation manual for instructions for ground channel installation. Insert and equally space the retaining clips into the channel. 4 pairs per metre for a secure hold.



4. Connect Cable

Connect first fix cable to the provided IP rated connector. Follow terminal layout as shown below.

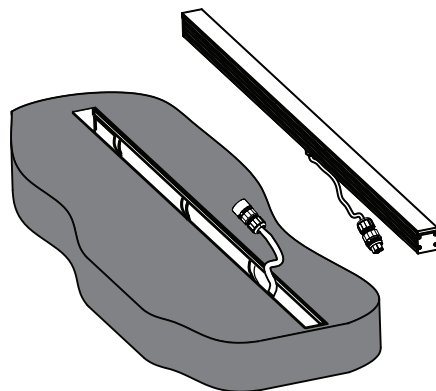
- Local regulations must be observed.
- Do NOT exceed 3A per serial circuit run.
- Use only SELV driver and install as per driver recommendations.
- See Vector Wiring Guide for detailed electrical instructions.



- 1 = Channel one (-)
- 2 = Channel two (-)
- 3 = Channel three (-)
- 4 = Channel four (-)
- 5 = Common positive (+)

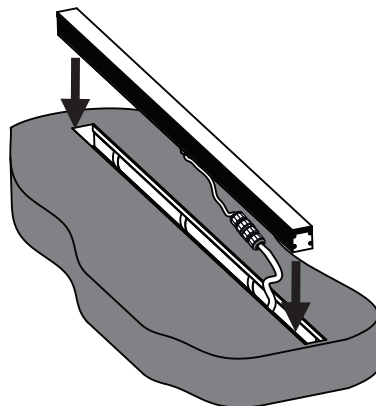
5. Connect V36I

Confirm that the LED driver is disconnected from mains before joining the first fix connector to the V36I's connector. Attach any other additional power cables (VECA-CA8102-R1 or VECA-CA8110-R1) and products.



6. Test V36I

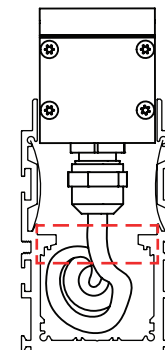
Verify that the circuit is working. Then lower the V36I into the V36G channel.



If the product does not function as expected, turn power off immediately and check all connections.

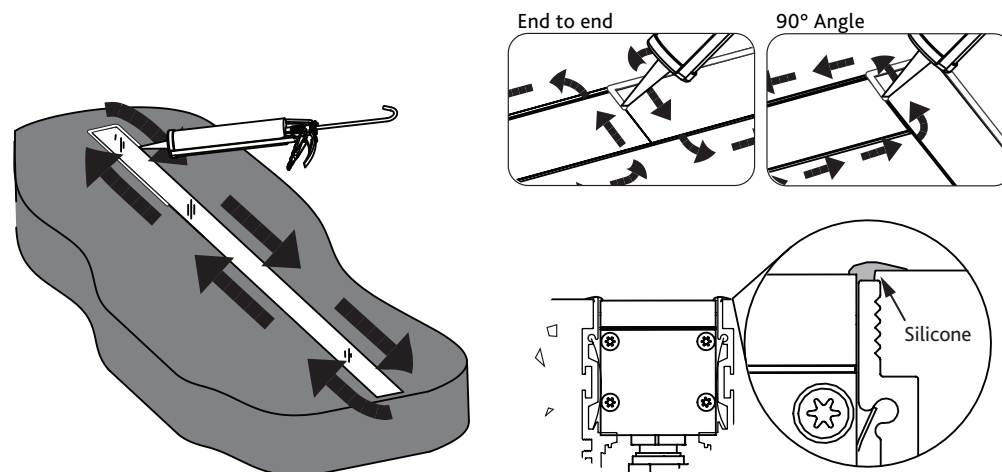
8. Cables

Make sure not to pinch any cables within the channel. Take care to tuck the cables beneath the V36G's internal lip (see diagram).



9. Silicone

Silicone around the glass edge and the V36G creating a good watertight seal and allow to dry for 6 hours.



10. Clean

Clean V36I with a glass cleaning cloth and glass cleaning solution. Avoid any harsh chemicals or abrasive cleaners, which may cause permanent damage to the product.

Product is not to be cleaned using a high pressure washer or floor cleaning machine.

The profile must be checked every 12 months and regularly cleaned to maintain warranty.

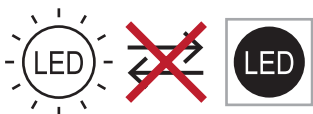


ECODESIGN REGULATION

This product is considered to be a “containing product” in the sense of Regulations (EU) 2019/2020 and (EU) 2019/2015.

The contained light source is an integrated part of the containing product and its removal can only be done by causing permanent damage to the containing product.

Therefore, replacement of the light source with the use of commonly available tools is not justified due to its restricted mechanical, electrical, optical, thermal and/or environmental protection requirements.



DISMANTLING

Dismantling of light source from the containing product at end of life:

The containing product shall be cut to the length of the contained light source and the light source mechanically detached from the containing product. Containing product component parts shall then be disassembled.

Containing products shall be separated from building material and/or from other additional mounting accessories by means of a professional installer.

Separate control gear and light sources must be disposed of at certified disposal companies in accordance with Directive 2012/19/EU (WEEE) in the EU and with Waste Electrical and Electronic Equipment (WEEE) Regulations 2013 in the UK.

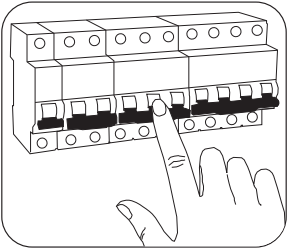
LUMINO is a member of the WEEE producer compliance scheme.
Registration number: WEE/MM8138AA

ENERGY RATING

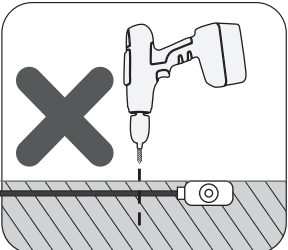
This product contains light sources of energy efficiency classes as shown:

LED	CCT	9.6W/m	12W/m	24W/m	30W/m
ColorCORE	4000K	-	F	F	F
	3500K	-	F	F	F
	3000K	-	F	F	F
	2700K	-	F	G	G
	2500K	-	F	G	G
	2200K	-	F	G	G
EQ	4000K	-	F	G	G
	3000K	-	G	G	G
	2700K	-	G	G	G
ColorTUNE	4000K - 2200K	-	-	F	-
	3000K - 1800K	-	-	F	-
WarmDIM	3000K	F	-	-	-
RGBW	RGB + 3000K	-	F	G	-
RGB	N/A				

Check!

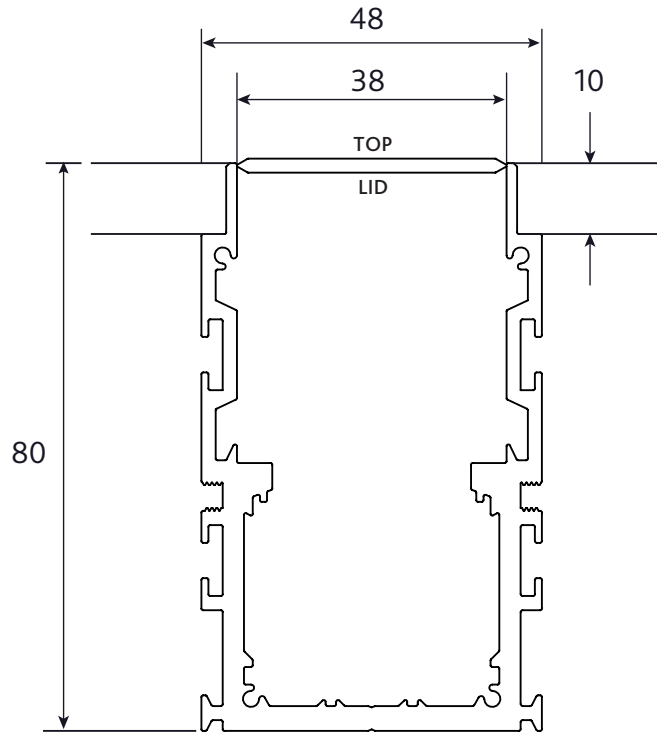


TURN OFF POWER!
COUPER LE COURANT!
STROM ABSHALTEN!
CORTE CORRIENTE!



CHECK FOR HIDDEN CABLES!
VÉRIFIER LES CÂBLES CACHÉS!
AUF VERDECKTE KABEL PRÜFEN!
COMPROBAR SI HAY CABLES OCULTOS!

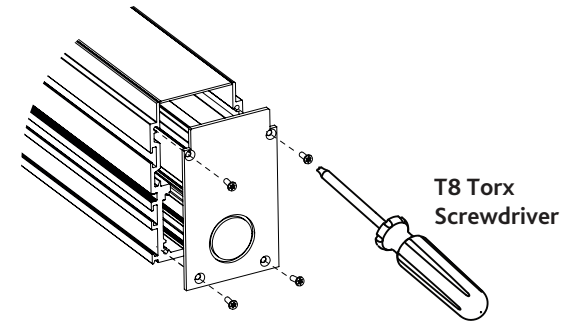
1



Do not remove lid, until after concreting the ground channel.
Failing to do so will result in narrower aperture.

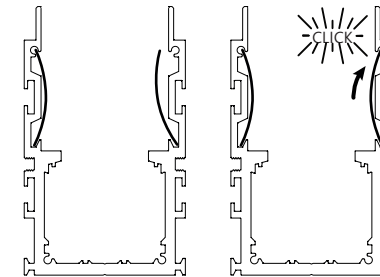
End Plates

V36G-MB202-R1
V36G End Cap Kit (Pair)



Retaining clips

V36G-MB201-R1
V36G Ground channel clips (10pcs)



- Damage will be caused by incorrect input voltage or short circuit
- Ensure access and sufficient free moving air space around drivers
- Products and power supply gear must not be live wired
- Protect products from dust & paint during installation and use
- Shielded pair of cables will be required for dimming control signal if applicable
- Plan for loads, driver locations, dimming and suitable cable prior to installing
- For technical assistance contact your local Lumino distributor.
- Use only with class 2 power unit to UL 1310 standard
- Use only with maximum output 24VDC voltage Class 2 power unit

Part Number

V36G-B2050-R1

V36G Ground Channel Mill Finish 2050mm

ACCESSORIES

VECA-CA003-R1
VECA-CA005-R1
V36G-MB201-R1
V36G-JB203-R1
V36G-MB202-R1
V36I-MA204-R1

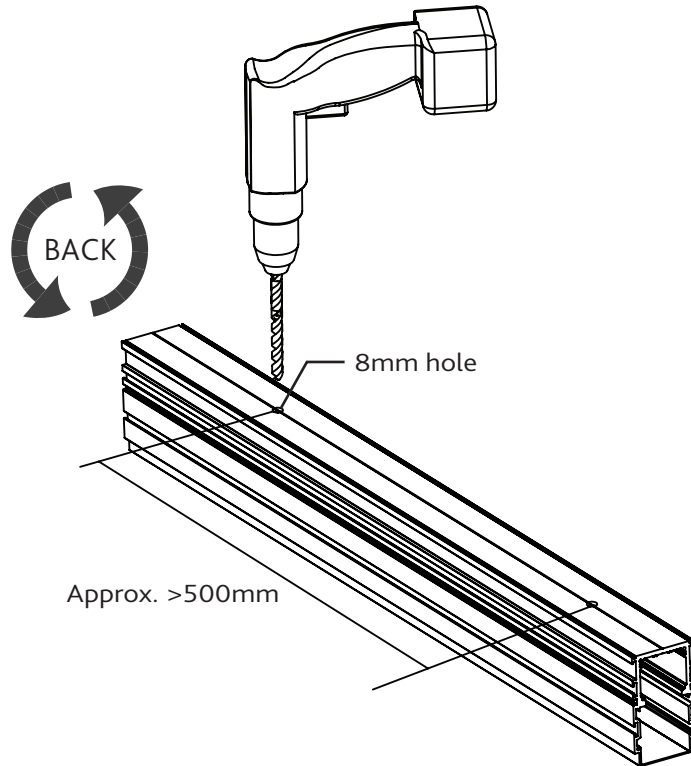
IP68 4-cable connector (CE)
IP68 2-cable connector (UL+CE)
V36G Ground channel clips (10 Pcs)
V36G Ground Channel joining kit
V36G Ground Channel caps(pair)
V36I Removal Tool



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For further help regarding installation visit lumino.lighting

2

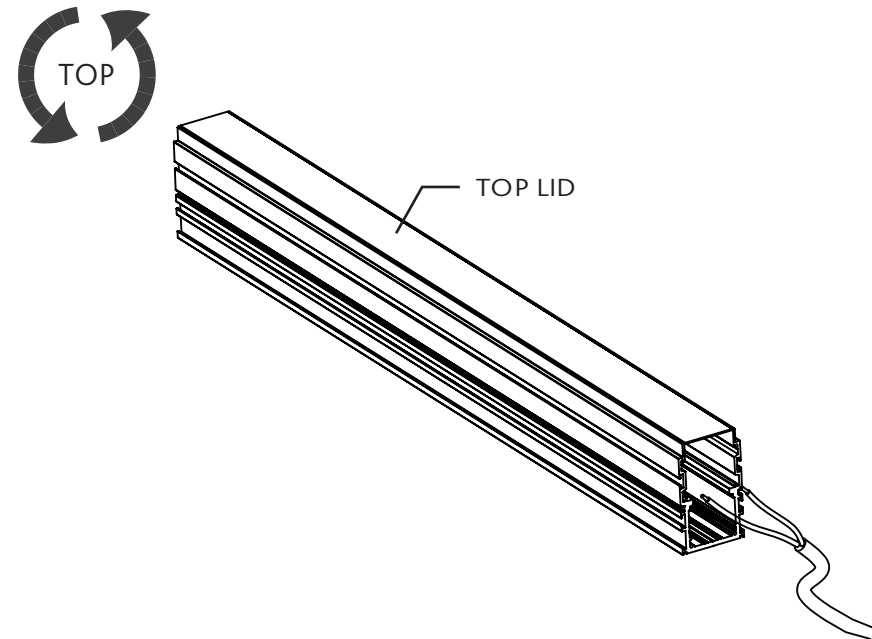


Drill drainage holes in the underside of ground-channel, at least 8mm diameter, spaced at 500mm intervals. Any fixing holes should also be drilled at this stage, spaced as required.



Do not remove lid, until after concreting the ground channel. Failing to do so will result in narrower aperture.

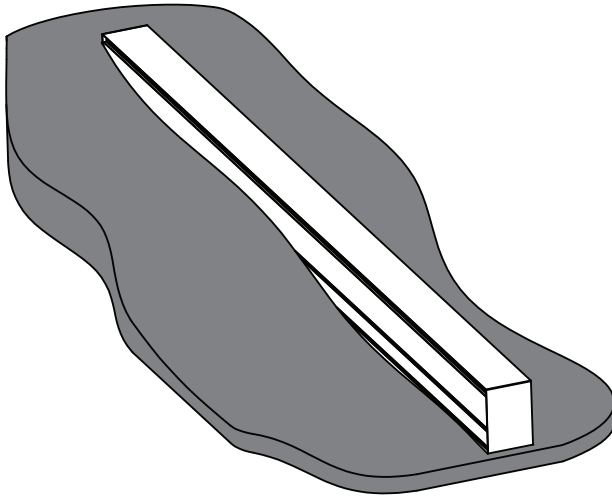
3



Place the power cable into the ground-channel taking care to protect any drilled or cut cable entry holes with a suitable grommet or protective sleeve to avoid damage to the cable.

If not using optional end plates, close the ends to prevent sand or screed from penetrating into the mounting ground-channel.

4

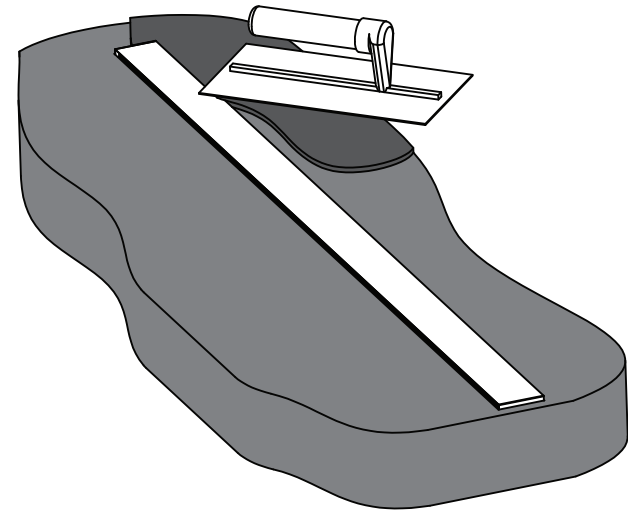


Align and position the ground-channel on the supporting base surface.

Secure the ground-channel in position with suitable fixing screws/bolts and plugs or bonding adhesive.

Area beneath ground-channel should be back-filled with suitable drainage material such as gravel to ensure channel is not continuously sitting in water.

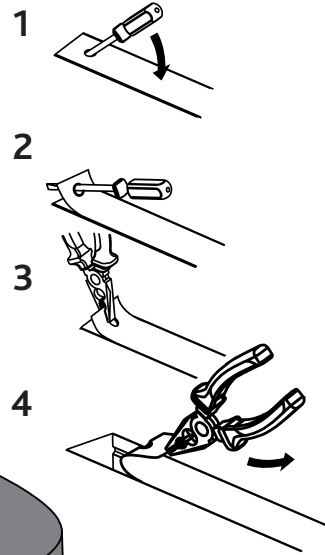
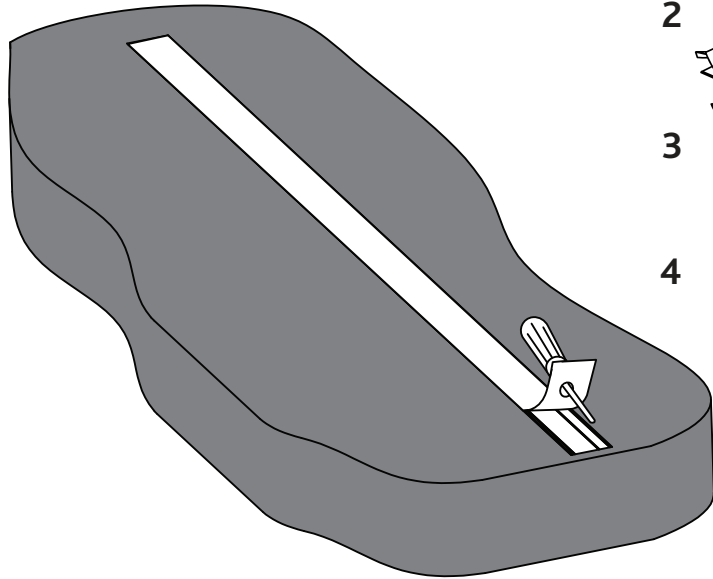
5



Execute the ground work around the ground-channel until the floor surface is level with the top edge.

Ensure material does not flow over into the ground-channel. In the case of floating floor finishes, the ground-channel must be separated from the floor by means of a flexible barrier film.

6

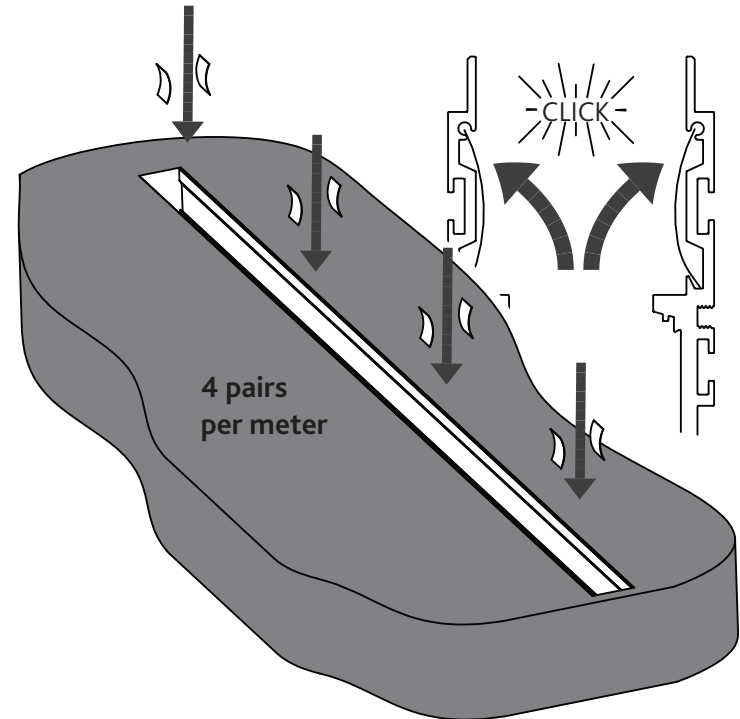


1. Drill Ø10mm hole.
2. lift up the lid with screw driver
3. Remove the lid with pliers.

Always ensure the top opening of the ground-channel is 38mm.

Any compression from horizontal forces may compress the opening preventing the lighting fitting from being installed.

7



Insert retaining clips into the channel 4 pairs per meter for best secure hold.

See V36I Installation Manual for full fitting instruction.

Safety instructions

Do not install onto unsuitable or unstable mounting surfaces.

The product suitable for horizontal mounting only.

The ground-channel must not be subject to bending during transport and fitting. Bending will result in damage and may prevent correct alignment of light fitting insert.

To remove water, sufficient drainage facilities should be provided when installing the ground-channel.

Do not install the ground-channel in areas prone to flooding, poor drainage, standing water or near the water table.

When the fitting is in place, the ground-channel is suitable for being regular pedestrian traffic. The static pressure load applied on the ground-channel must not exceed 5 kN/m².

The installation of the ground-channel in roads used by motor vehicles is not permitted.

The ground-channel must not be traversed with a plate vibrator.

In swimming pools, coastal areas and other corrosive environments, only a special version of V36G with a protective coating should be used. Contact Lumino for further information.

Risk of injury if the instructions are not properly observed.

These operating instruction are part of the product and must be left with the final customer.



CAUTION: Risk of galvanic corrosion. Contact of the product with less noble metals, abraded iron, external corrosion and aggressive media must be avoided.



CAUTION: Linear thermal expansion. At a temperature rise of 20°C, the ground-channel is subject to linear thermal expansion in the order of approx. 0.5mm per metre. Provide for adequately dimensioned expansion space between elements during fitting.



CAUTION: Where power cables enter the ground-channel, protect any drilled or cut edges with a suitable grommet or protective sleeve to avoid damage to the cable.



CAUTION: Do not remove V36G lid, until after concreting the ground channel failing to do so will result in narrower aperture.