

## SUBLITE LUMINO INSTALLATION INSTRUCTIONS



Ensure that personnel carrying out this conversion have the relevant qualifications/certificates and all work is carried out in accordance with BS6771:2008/I.E.E. Wiring Regulations 17th Edition.

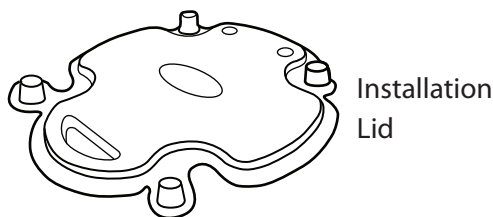
Ensure that all relevant personnel read the points listed within this leaflet and that a copy is given to staff involved with the installation and maintenance of this product.

Glasdon recommends that a full Health and Safety analysis is carried out prior to installation.

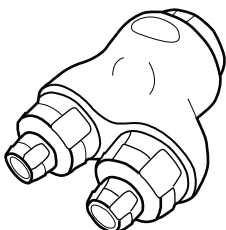
### EQUIPMENT REQUIRED

- Spade
- Spirit Level
- Concrete Mix (we suggest using a quick setting concrete i.e. QC10 for all installations)
- Hand Drill
- Safety Equipment (hard hat, mask, goggles, reflective clothing, etc)
- Tape Measure

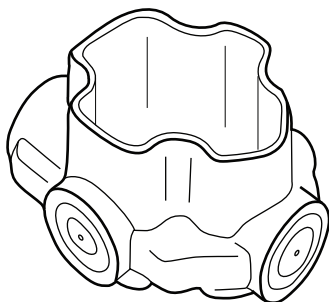
### OPTIONAL EXTRAS



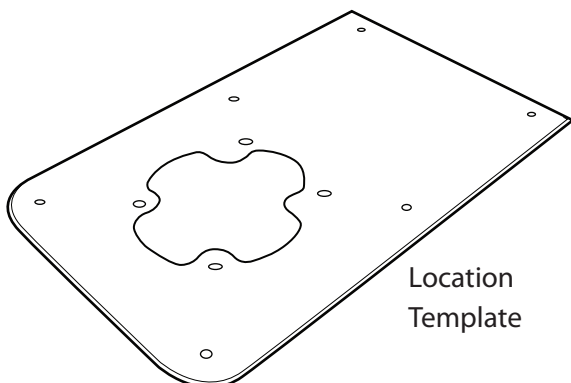
Installation  
Lid



Splitter



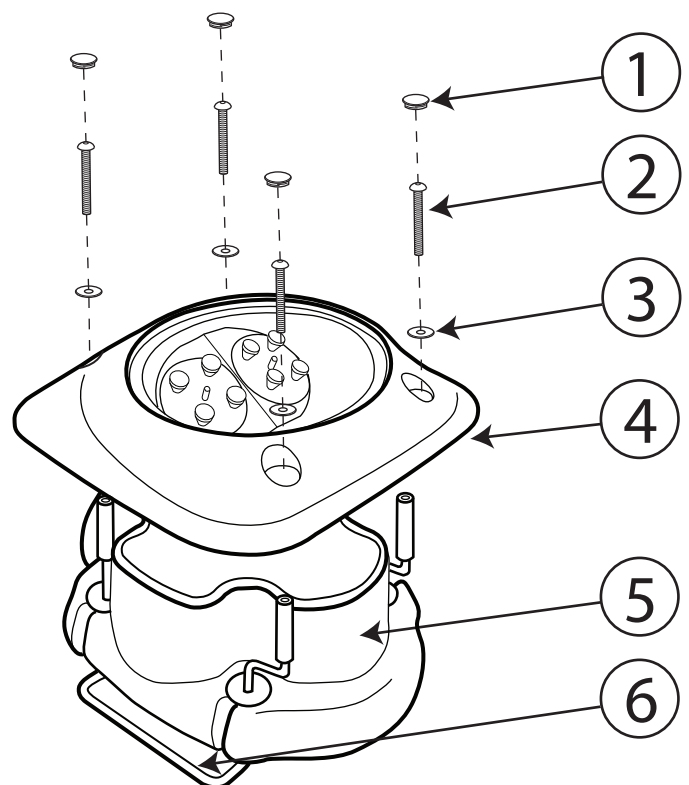
Ducting  
Chamber



Location  
Template

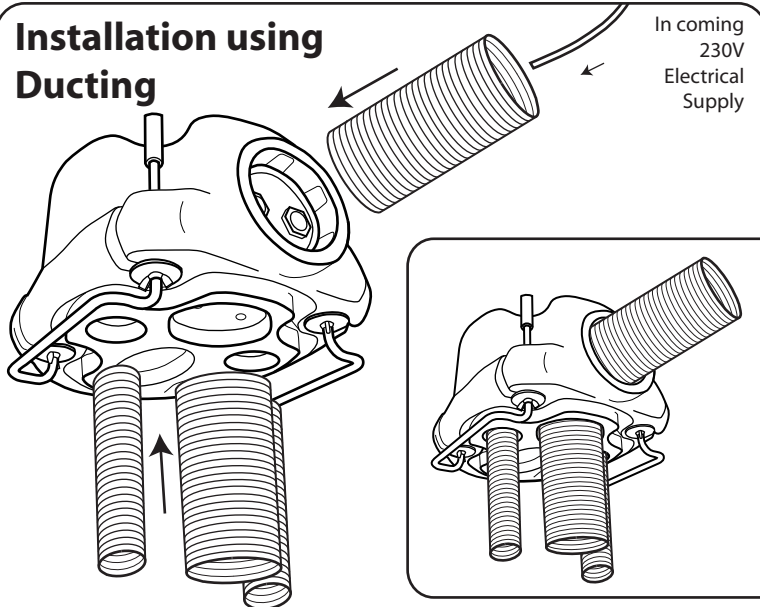
### KIT CONTENTS

<b>1</b> - Tamper Proof Cover Cap	x4
<b>2</b> - M10 x 80mm Screw	x4
<b>3</b> - M10 x Ø24 Washer	x4
<b>4</b> - LED Lighting Unit	x1
<b>5</b> - Underground Box	x1
<b>6</b> - Concrete-In Bars	x2
Allen Key 6mm	x1



*Please note that diagrams are not to scale*

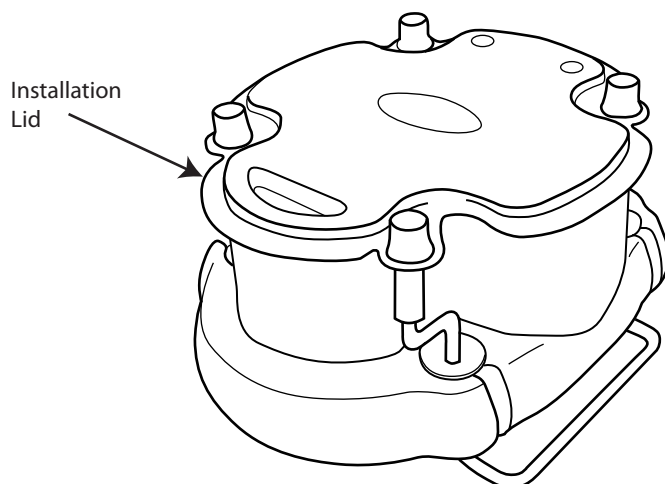
## Installation using Ducting



If using 100mm ducting, cut to size and offer either into the ducting recess below or into the rear of the unit. (For 50mm ducting fit from below or as close to the back of the unit as possible.)

Diagram A

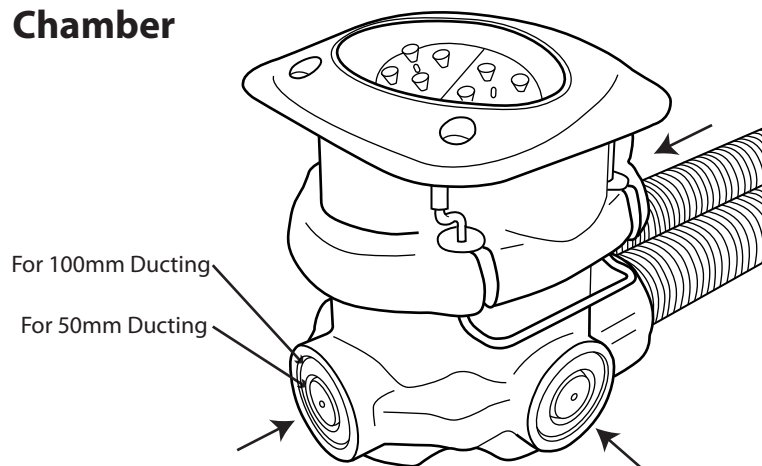
## Installation using Optional Installation Lid (Highly Recommended)



If using an optional Installation Lid position on to the fixing bars on the Underground Box prior to installation. Remove Lid only when concrete has set and LED Lighting Unit is to be connected.

Diagram B

## Installation using Ducting and Optional Ducting Chamber

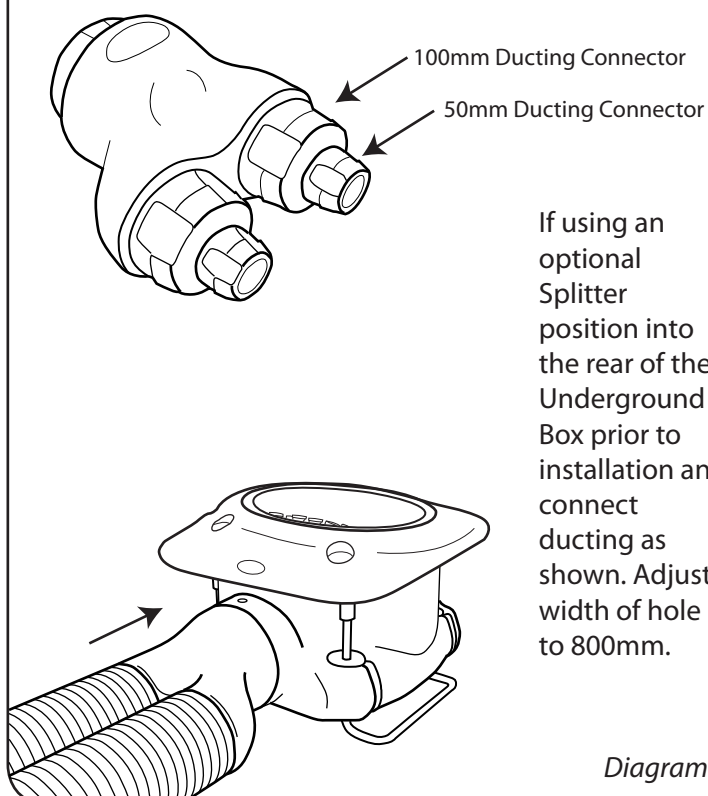


Using hole cutter or knife, cut out the required circles (inner circle for 50mm ducting and outer circle of 100mm ducting) and slot ducting into the chamber. Adjust depth of hole to 500mm

NOTE: When using the Ducting Chamber, installation of the cabling must be completed at the same time as the installation of the unit. Also glands must be located on the base of the Underground box.

Diagram C

## Installation using Ducting and Optional Splitter



If using an optional Splitter position into the rear of the Underground Box prior to installation and connect ducting as shown. Adjust width of hole to 800mm.

Diagram D

## MINIMUM HOLE DIMENSIONS

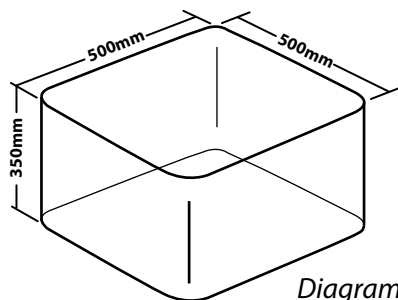


Diagram E

Note: Take care to avoid buried services when excavating the hole.

Adjust depth and width of hole when using a Splitter or Ducting Chamber (see page 2).

*Note: A distance of 500mm from the Chevreflex is the recommended distance for optimum light output onto the sign.*

*For applications with limited space this distance can be reduced and the Adjustable LED Plate lifted accordingly (see diagram R) however this may reduce the light levels on the sign.*

**Important Installation Note:** The Underground Box must be installed at the correct height and level or the ingress protection (IP rating) of the unit may be severely impaired.

## Installation Instructions

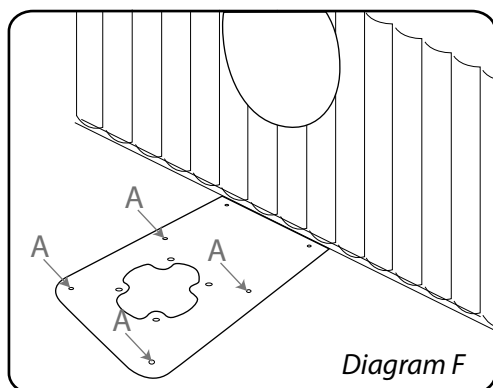


Diagram F

If using the Location Template position this onto the ground directly in front of the Chevreflex 606 sign. Mark the ground through the holes marked A. Put the Template to one side. The marked

holes are an indicator of the size and location of the hole to be excavated. Once excavated to a depth of 350mm lay 50mm of gravel for drainage.

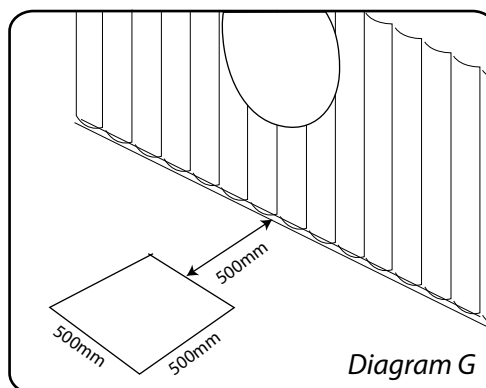


Diagram G

If you don't have a Location Template measure and excavate a hole as shown in Diagram G. Ensure the hole is central to the 606 sign.

Excavate the hole to a depth of 350mm and lay 50mm of gravel for drainage.

(We recommend having a layer of concrete between the hole and the Chevreflex to prevent future grass growth that may obscure the light output.)

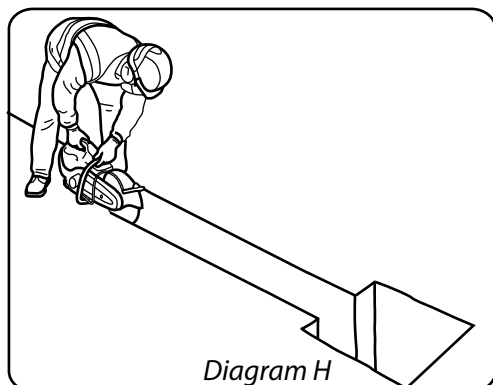


Diagram H

Excavate a trench from the power source to the hole and lay ducting.

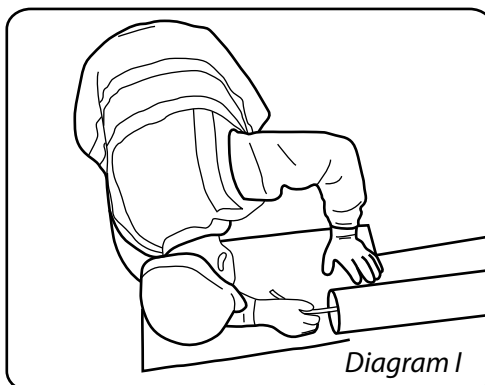


Diagram I

Thread the cable through the ducting.

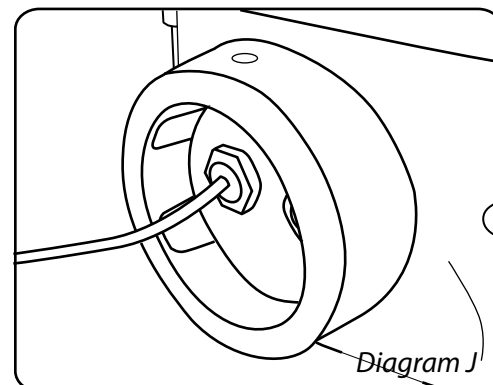


Diagram J

Position the Underground box into the hole and thread the cable through the gland and tighten well. Connect ducting to unit if required.

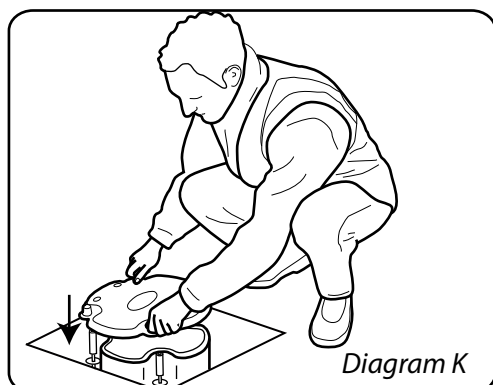


Diagram K

If using the Installation Lid position onto Underground Box. Ensure ground level marker is at the correct height and use a spirit level to ensure the box is level. Add/remove gravel as required.

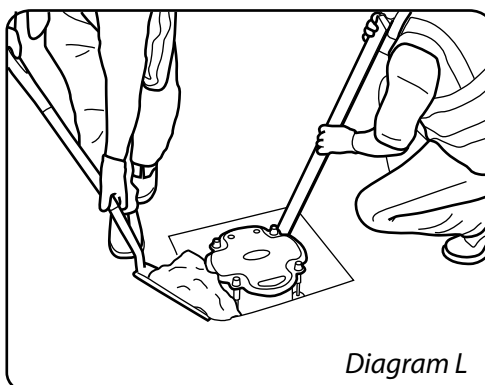


Diagram L

Fill the hole with concrete ensuring the concrete flows around all the fixing bars. Fill up to the edge of the Installation Lid or ground level marker.

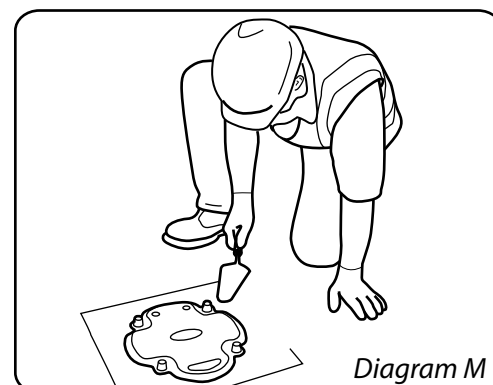


Diagram M

Smooth the surface and allow concrete to dry for at least 24 hours. We recommend leaving the Installation Lid on for this duration.

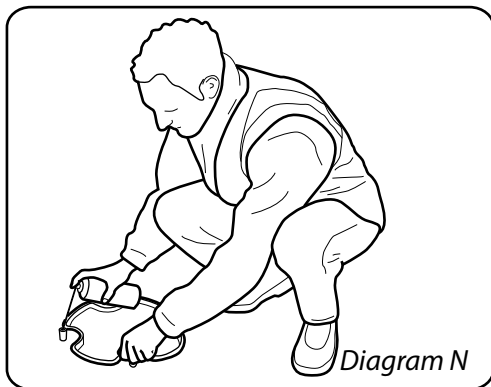


Diagram N

When the concrete has set the Installation Lid can be removed and discarded or re used. Now lightly grease the inside of all four fixing bars as shown with WD40 or equivalent.

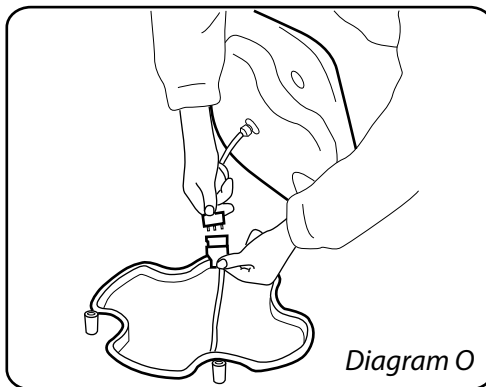


Diagram O

Screw the 'cut out' to the plywood board and attach cable. Attach socket to the end of cable and connect to the plug on the LED Lighting Unit.

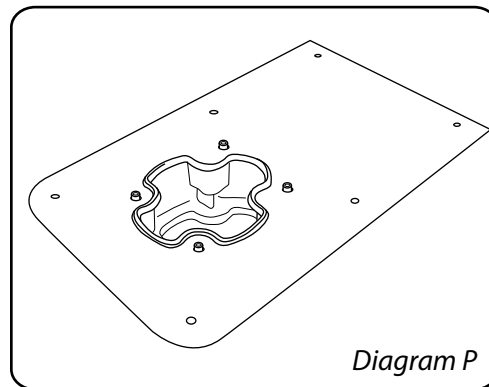


Diagram P

If using the location template position onto the four fixing bars

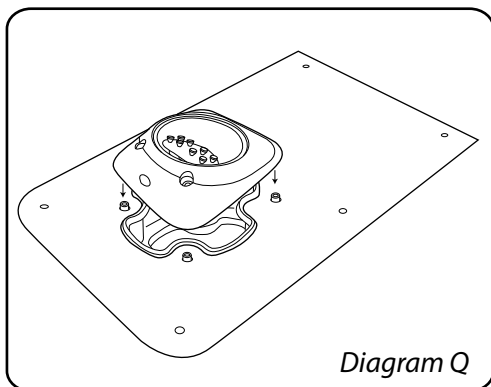


Diagram Q

Position the LED Lighting Unit onto the Underground Box. Ensuring the top edge of the Underground Box sits in the recess on the underside of the LED Lighting Unit.

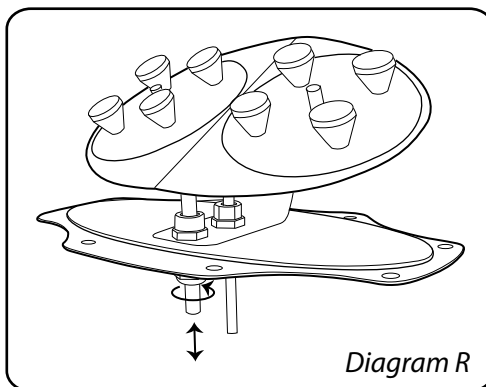


Diagram R

The angle of the LED plate can be adjusted by loosening the gland and pushing the pin up/down as required.

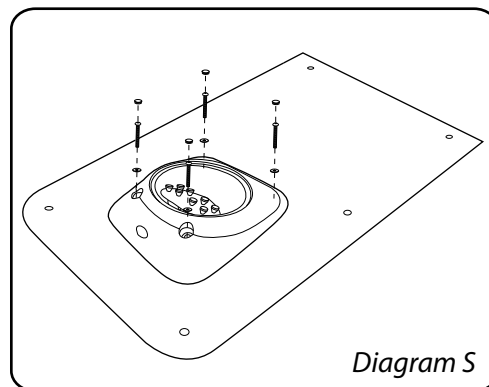


Diagram S

Position items 1, 2 and 3 into the four fixing holes. Tighten screws using the allen key provided and tap cover caps into place using a rubber hammer.

**IMPORTANT NOTE:** PLEASE ENSURE THAT ALL RELEVANT PERSONNEL READ THE POINTS LISTED WITHIN THIS LEAFLET AND THAT A COPY IS GIVEN TO STAFF INVOLVED WITH THE INSTALLATION AND MAINTENANCE OF THIS PRODUCT.

**SAFETY NOTE:** PLEASE REFER TO 'THE MANUAL HANDLING OPERATIONS REGULATIONS 1992' DURING HANDLING.



AND SUBLITE LUMINO ARE TRADEMARKS OR REGISTERED TRADEMARKS OF GLASDON GROUP OR ITS SUBSIDIARIES IN THE U.K AND OTHER COUNTRIES

- A planned maintenance schedule or regular inspection is recommended, replacing components as necessary.
- Replacement components are available direct from GLASDON.
- GLASDON cannot be held responsible for claims arising from incorrect installation, unauthorised modifications or misuse of the product.

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